

General Catalogue

PRODUCTS FOR WATER CHALLENGES

LOWARA
a xylem brand



From ITT comes Xylem





Xylem – a premium applications solutions company dedicated exclusively to solving our customers' most challenging water problems – was formed from ITT Corporation's spinoff of several strategic business segments in October 2011, namely the Water & Wastewater, Residential & Commercial Water, Analytics and Flow Control businesses.

As a stand-alone company, we are a world leader in water technology, providing equipment and services for water and wastewater applications with a broad portfolio of products and services that address the full cycle of water – from collection, distribution and use to its return to the environment. We are 12,000 people unified in a common purpose: creating innovative solutions to global water challenges. We know this is only achieved when partnering closely with our customers. Through our corporate citizenship program Xylem Watermark, we bring clean water, sanitation and hygiene education to schools and communities in emerging markets, and respond with water solutions when disaster strikes around the globe.

Our strong product brands will continue to drive our business forward in moving, testing, analyzing and treating water, and are the essential building blocks of the Xylem brand. With decades of leadership in their categories, these brands are at the core of who we are, and each is part of the new, revitalized future we're creating together at Xylem.

With greater strategic focus than ever before, a strong and experienced leadership team, a high-performance company culture and a clear plan for short- and long-term growth globally, we are building on the strength of our history to deliver a higher level of customer service, innovation and value – today and well into the future.



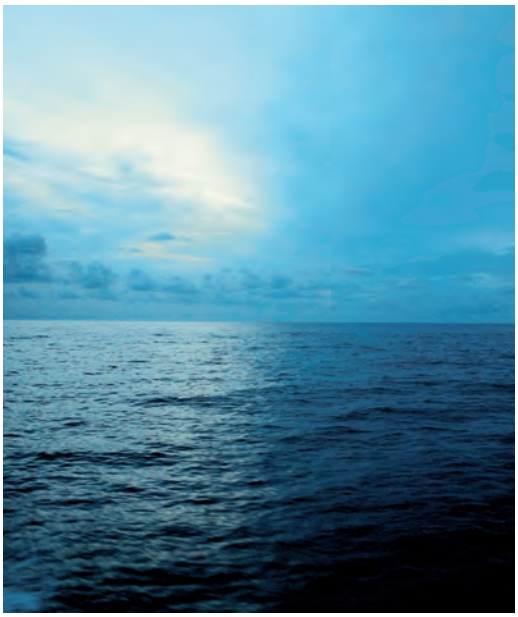


Elements in harmony



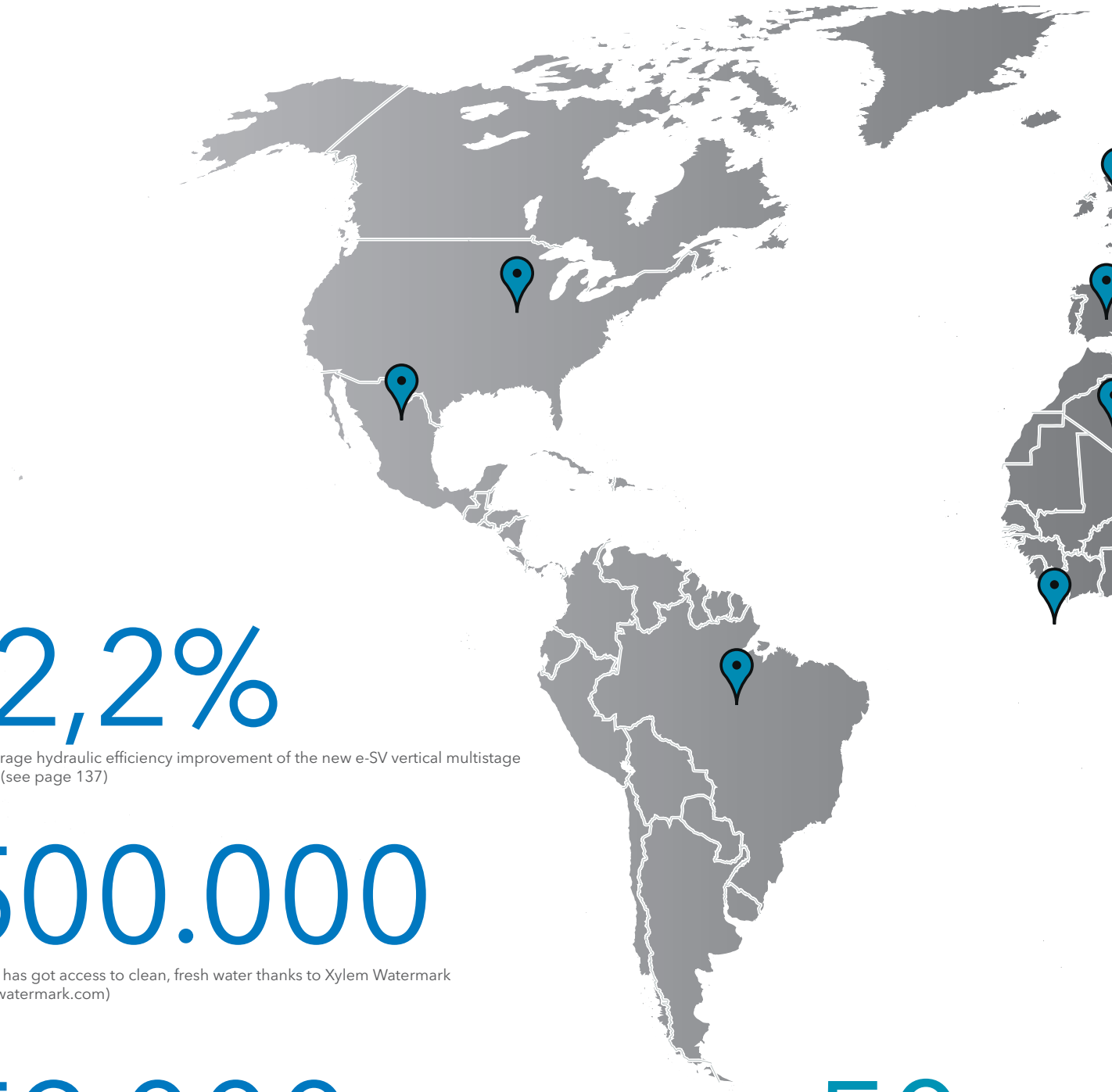
Xylem is more than a name. In one word, it tells our story. Xylem is the tissue in plants that brings water upward from the roots. While no one has found a way to improve on Mother Nature, we like to think that we have some things in common. For example, our people use their skills and experience to move from the root of a challenge to the heart of a solution. Our new name should help people understand that we are an efficient provider and transporter of innovative products that bring water to where it is most needed.

The Xylem logo is an essential expression of our new brand identity, too. Its color is, naturally, blue—the color most closely associated with water. The letters were designed to remind us of the flow of water and the precision of our engineering focus. It's a modern design, appearing in all lower-case letters to create a friendly, inviting feeling that builds interest. These elements work together to show that we're creative, thoughtful problem solvers.



Our name and logo tell our story, and our tagline—Let's Solve Water—serves as its subtitle. Our tagline is a statement of our goal to help communities thrive. It's a powerful call to action for all of us, capturing the promise of true partnership and speaking to our reason for getting up in the morning: We want to find essential solutions for a world of water, both today and tomorrow. Together with our customers and partners, we want to make a difference.

Lowara by the numbers



12,2%

the average hydraulic efficiency improvement of the new e-SV vertical multistage pumps (see page 137)

500.000

people has got access to clean, fresh water thanks to Xylem Watermark (xylemwatermark.com)

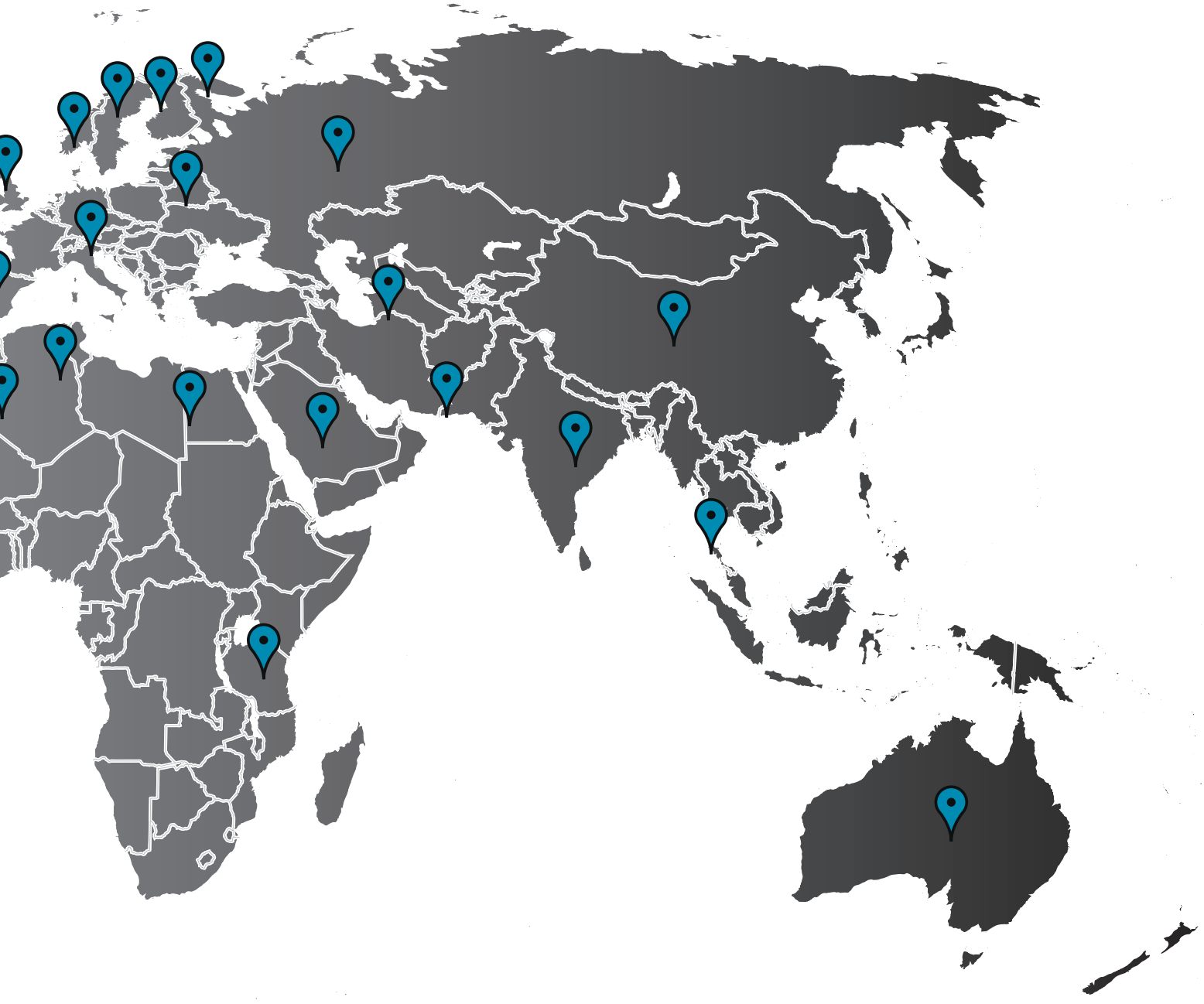
52.000

households annual energy consumption is the energy savings made by all installed Hydrovars (see page 505)

50

Years of experience

Sales offices
Worldwide sales network



443

Million euros of turnover in 2011

5000

Pumps a day

Pump selection guide





Lowara is widely recognised as being one of the most innovative companies in the sector of hydraulic pumps and control and water handling systems.
Lowara's concept of competitiveness involves developing top quality and extremely reliable products at competitive prices, hence optimising the level of customer satisfaction and service.
This pump selection guide is designed to help you find and specify the best pump for your service.

LOOP4U & Xylect.

A pump selection programme which assists in the correct selection of pumps within the Lowara range. With LOOP4U as client version and Xylect as web based version, the user has a very powerful tool that will assist in the work greatly, ensuring the selections made both from a technical and commercial aspect, are correct and more importantly meet the customers needs.

Applications.

	PUBLIC UTILITIES (MUNI)	RESIDENTIAL BUILDING SERVICES	COMMERCIAL BUILDING SERVICES	INDUSTRY	AGRICULTURE
END SUCTION CENTRIFUGAL PUMPS					
HM-HMS Series		■		■	■
CEA-CEAN Series		■		■	■
CA-CAN Series		■		■	■
SP Series		■			
BG Series		■		■	■
JEC-AG Series		■	■		
P-PB-PK Series		■	■	■	
FHE-FHS Series	■		■	■	■
FHF Series	■		■		
CO-COF-SHO Series				■	
SHE-SHS-SHF Series			■	■	■
CLOSE COUPLED IN-LINE PUMPS					
TLC Series		■			
TLCH Series		■	■		
TLCB Series		■			
TLCHB Series		■	■		
TLCSOL Series		■			
TLCK Series		■			
EV+ Series		■			
EA+ Series		■			
FLC Series			■		
FLCG Series			■		
EFLC Series			■		
EFLCG Series			■		
FCT Series			■	■	
MULTISTAGE					
e-SV Series	■	■	■	■	■
TDB-TDV Series	■		■	■	■
SVI Series				■	
SUBMERSIBLE, DRAINAGE & SEWAGE PUMPS					
DOC Series					
DOMO Series		■			
DOMO GRI Series		■		■	
DIWA Series		■		■	
DN Series		■		■	
DL Series		■		■	
GLS-GLV Series		■	■	■	
Minibox, Midibox, Singlebox Plus, Doublebox Plus Series		■	■	■	
Maxibox Plus			■	■	
BOREHOLE					
GS Series		■			■
SCUBA Series		■			■
Z6 Series	■				■
Z8-Z10-Z12 Series	■				■
40S-L4C Motors		■			■
L6C-L6W Motors	■				■
L8W-L10W-L12W Motors	■				■
BOOSTER SETS					
Block Pressure Set		■			
GXS Series		■			
GMD Series		■			
GTKS Series		■			
GHV Series	■		■	■	■
GEN Fire Fighting Systems EN 12845			■		
GS Series			■	■	■
GV Series	■		■	■	■
VARIABLE SPEED CONTROLS					
Teknospeed		■			
HYDROVAR®	■		■	■	■
Hydrovar Retro-Fitting		■	■		
Hydrovar Sensorless		■	■		
Hydrovar Watercooled		■			
Aquontroller		■			
ACCESSORIES					
Genyo, Vessels, Motors, Float switches		■	■		
Filters, Softners*, Dosing Pumps*		■		■	
Control Boxes		■	■		

* Sold in Italy Only

Surface Pumps 1

Circulators 2

Drainage and Sewage Pumps 3

Borehole Pumps 4

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Surface Pumps 1

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CO SERIES
Horizontal pumps with open impeller in AISI 316 stainless steel 35

SHO SERIES
Horizontal pumps with open impeller and flanged connections 39

SP SERIES
Self-priming pumps with side channel 60

BG SERIES
Self-priming pumps 63

AG-JEC SERIES
Pumps for swimming pools 66

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Peripheral pumps 70

FH SERIES
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SH SERIES
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Residential

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AQUONTROLLER SERIES
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Surface Pumps 1

HM-HMS-HMZ SERIES
Horizontal multistage pumps in AISI 304 or AISI 316 stainless steel 23

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Vertical multistage pumps in AISI 304 stainless steel 137

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Immersible vertical pumps 168

TDB-TDV SERIES
Vertical multistage pumps 174

HM-HMS-HMZ Series

Noiseless, high-efficiency, horizontal multistage centrifugal electric pumps.

Available in the HM-HMZ versions for domestic applications and in the HMS version (made entirely of AISI 316 steel) for industrial applications.
The HMZ version is specific for critical suction applications.

Specifications

Delivery: up to 7.2 m^3/h
Head: up to 60 m
Power supply: three-phase and singlephase 50 and 60 Hz
Power: 0.3 kW to 0.9 kW
Maximum operating pressure: 8 bar
Temperature of pumped liquid:
-10°C to +60°C (HM-HMZ)
-10°C to +110°C (HMS)
Insulation class: F
Protection: IP55

Materials

Pump body: Stainless steel
Impeller: Stainless steel (HMS)
Technopolymer (HM-HMZ)
Diffuser: Stainless steel
Seal housing: Stainless steel
Mechanical seal:
Ceramic/Carbon/EPDM
Fill and drain plugs:
Nickel-plated brass (HM-HMZ)
Stainless steel (HMS)
Elastomers: EPDM

Applications

Water distribution

Rain water collection

Industrial washing equipment

Pressure boosting

General industry

Irrigation

Water treatment

Cooling and chilling



For a complete list of technical information, consult www.lowara.com

Operating Characteristics

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	20	30	40	50	60	70	80	100	120
			m^3/h	0	1,2	1,8	2,4	3	3,6	4,2	4,8	6	7,2
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)										
2HM3(T)	0,3	0,4	23,8	21,4	19,7	17,6	15,2	12,5	9,4			
2HM4(T)	0,45	0,6	35,4	32	29,5	26,5	23	19	14,5			
2HM5(T)	0,55	0,75	46,8	42,1	38,8	34,9	30,4	25,3	19,6			
2HM7(T)	0,75	1	58,5	53,2	49,5	44,9	39,5	33,2	25,8			
4HM4(T)	0,45	0,6	24,6			20,3	19,1	17,8	16,5	15	11,9	8,3
4HM5(T)	0,55	0,75	35,4			28,9	27,2	25,4	23,6	21,6	17,2	12,1
4HM7(T)	0,75	1	48,1			40,2	38,2	36	33,7	31,2	25,2	17,7
4HM9(T)	0,9	1,2	60,7			51,2	48,6	45,9	42,9	39,7	32,4	23,6

hm-2p50_a_th

Electrical data

PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
2HM3	SM63HM/1035	0,51	2,34	10	2HM3T	SM63HM/303	0,47	1,80	1,04
2HM4	SM63HM/1045	0,66	2,92	14	2HM4T	SM63HM/304	0,67	2,56	1,48
2HM5	SM63HM/1055	0,85	3,72	16	2HM5T	SM63HM/305	0,87	2,94	1,70
2HM7	SM71HM/1075	1,13	5,09	20	2HM7T	SM80HM/307HE	1,10	3,39	1,96
4HM4	SM63HM/1045	0,62	2,77	14	4HM4T	SM63HM/304	0,62	2,51	1,45
4HM5	SM63HM/1055	0,86	3,76	16	4HM5T	SM63HM/305	0,88	2,96	1,71
4HM7	SM71HM/1095	1,29	5,74	25	4HM7T	SM80HM/311HE	1,20	3,77	2,18
4HM9	SM71HM/1095	1,45	6,49	25	4HM9T	SM80HM/311HE	1,38	4,20	2,43

*Maximum value in specified range.

hm-2p50-en_c_te

HMS SERIES
Hydraulic performance table ~2850 rpm 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	20	30	40	50	60	70	80	100	120
			m^3/h	0	1,2	1,8	2,4	3	3,6	4,2	4,8	6	7,2
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)										
2HMS3(T)	0,3	0,4	20,5	17,8	16,2	14,4	12,3	9,8	6,9			
2HMS4R(T)	0,45	0,6	30,2	26,7	24,3	21,4	18,1	14,4	10,3			
2HMS4(T)	0,45	0,6	41,1	35,6	32,4	28,7	24,6	19,8	14,4			
2HMS7(T)	0,75	1	51,2	45,6	41,7	37,1	31,7	25,4	18,2			
4HMS3(T)	0,3	0,4	19,1			15,3	14,4	13,5	12,6	11,6	9,3	6,6
4HMS4(T)	0,45	0,6	27,8			22,8	21,5	20,1	18,6	17,0	13,5	9,5
4HMS5(T)	0,55	0,75	37,2			30,6	28,9	27,0	25,1	23,0	18,2	12,7
4HMS7(T)	0,75	1	46,7			38,9	36,8	34,6	32,2	29,6	23,7	16,7

hms-2p50_a_th

Electrical data

PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CORRENTE ASSORB.* 380-415 V A
2HMS3	SM63HM/1035	0,47	2,25	10	2HMS3T	SM63HM/303	0,42	1,77	1,02
2HMS4R	SM63HM/1045	0,61	2,75	14	2HMS4RT	SM63HM/304	0,61	2,51	1,45
2HMS4	SM63HM/1055	0,73	3,28	16	2HMS4T	SM63HM/305	0,73	2,79	1,61
2HMS7	SM71HM/1075	1,00	4,61	20	2HMS7T	SM80HM/307HE	0,96	3,04	1,76
4HMS3	SM63HM/1035	0,51	2,35	10	4HMS3T	SM63HM/303	0,48	1,80	1,04
4HMS4	SM63HM/1045	0,68	2,99	14	4HMS4T	SM63HM/304	0,69	2,58	1,49
4HMS5	SM71HM/1055	0,81	3,54	16	4HMS5T	SM80HM/305	0,82	2,89	1,67
4HMS7	SM71HM/1075	1,13	5,08	20	4HMS7T	SM80HM/307HE	1,09	3,37	1,95

*Maximum value in specified range.

hms-2p50-en_b_te

HMZ SERIES
Hydraulic performance table ~2850 rpm 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	20	30	40	50	60	70	80	100	120
			m^3/h	0	1,2	1,8	2,4	3	3,6	4,2	4,8	6	7,2
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
2HM3Z(T)	0,3	0,4	22,2	20	18,2	16,1	13,7	10,9	7,9			
2HM4Z(T)	0,45	0,6	34	30	27,3	24,2	20,7	16,7	12,2			
2HM5Z(T)	0,55	0,75	45,5	40	36,3	32,1	27,3	22,1	16,5			
2HM7Z(T)	0,75	1	57	50,8	46,2	40,8	34,6	27,8	20,5			
4HM4Z(T)	0,45	0,6	23,6			19,3	18,1	16,9	15,6	14,2	11,1	7,6
4HM5Z(T)	0,55	0,75	35			28,6	26,9	25	23,1	21	16,6	11,5
4HM7Z(T)	0,75	1	47,5			39,9	37,8	35,6	33,2	30,5	24,4	16,9
4HM9Z(T)	0,9	1,2	58,4			48,3	45,6	42,8	39,8	36,5	29,1	20,3

hmz-2p50-en_b_th

Electrical data

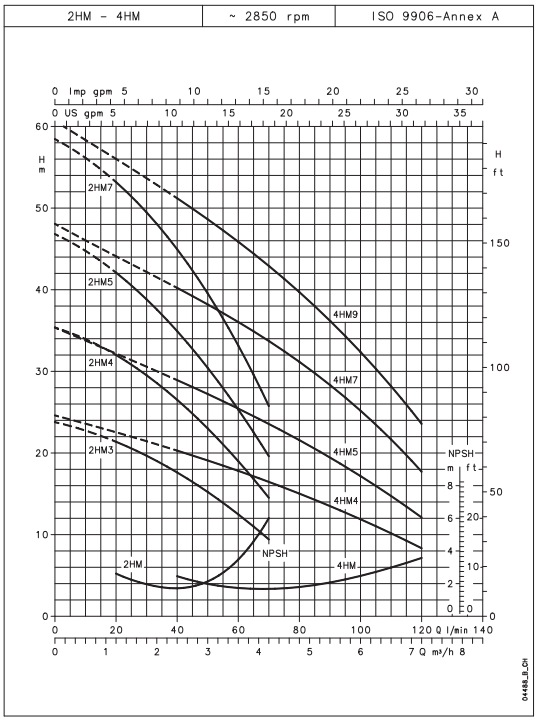
PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
2HM3Z	SM63HM/1035	0,51	2,34	10	2HM3ZT	SM63HM/303	0,47	1,80	1,04
2HM4Z	SM63HM/1045	0,66	2,92	14	2HM4ZT	SM63HM/304	0,67	2,56	1,48
2HM5Z	SM63HM/1055	0,85	3,72	16	2HM5ZT	SM63HM/305	0,87	2,94	1,70
2HM7Z	SM71HM/1075	1,13	5,09	20	2HM7ZT	SM80HM/307HE	1,10	3,39	1,96
4HM4Z	SM63HM/1045	0,62	2,77	14	4HM4ZT	SM63HM/304	0,62	2,51	1,45
4HM5Z	SM63HM/1055	0,86	3,76	16	4HM5ZT	SM63HM/305	0,88	2,96	1,71
4HM7Z	SM71HM/1095	1,29	5,74	25	4HM7ZT	SM80HM/311HE	1,20	3,77	2,18
4HM9Z	SM71HM/1095	1,45	6,49	25	4HM9ZT	SM80HM/311HE	1,38	4,20	2,43

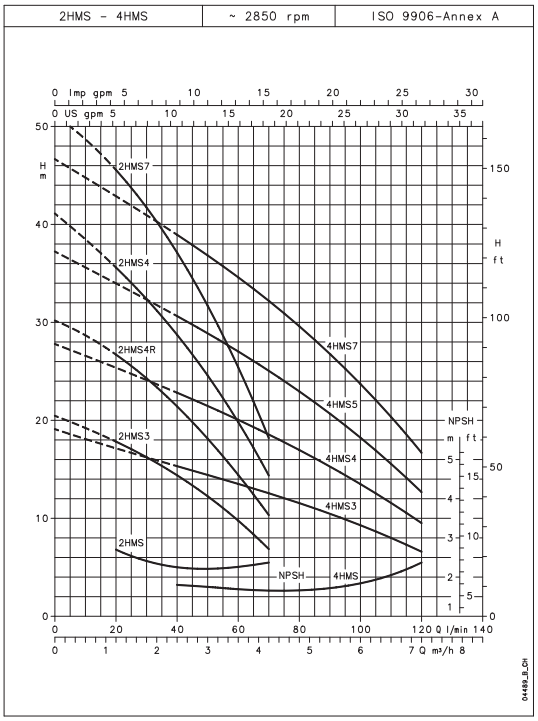
*Maximum value in specified range.

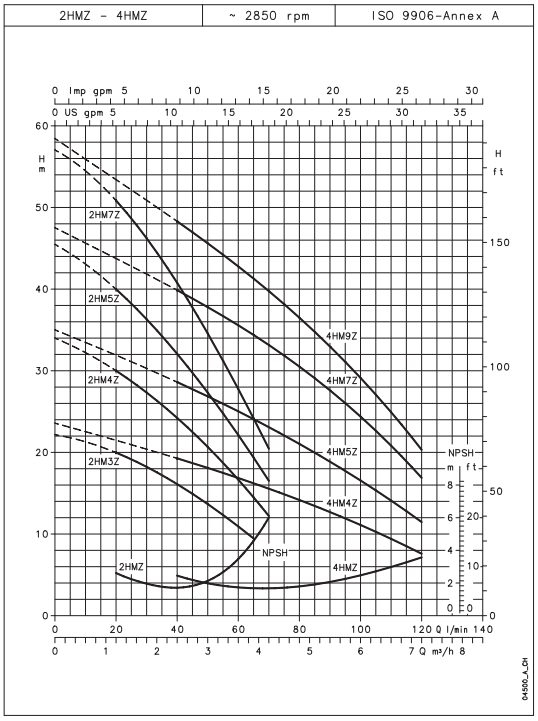
hmz-2p50-en_b_te

Black and white technical books available
see www.lowara.it

HM-HMS-HMZ SERIES
Operating characteristics at 50 Hz

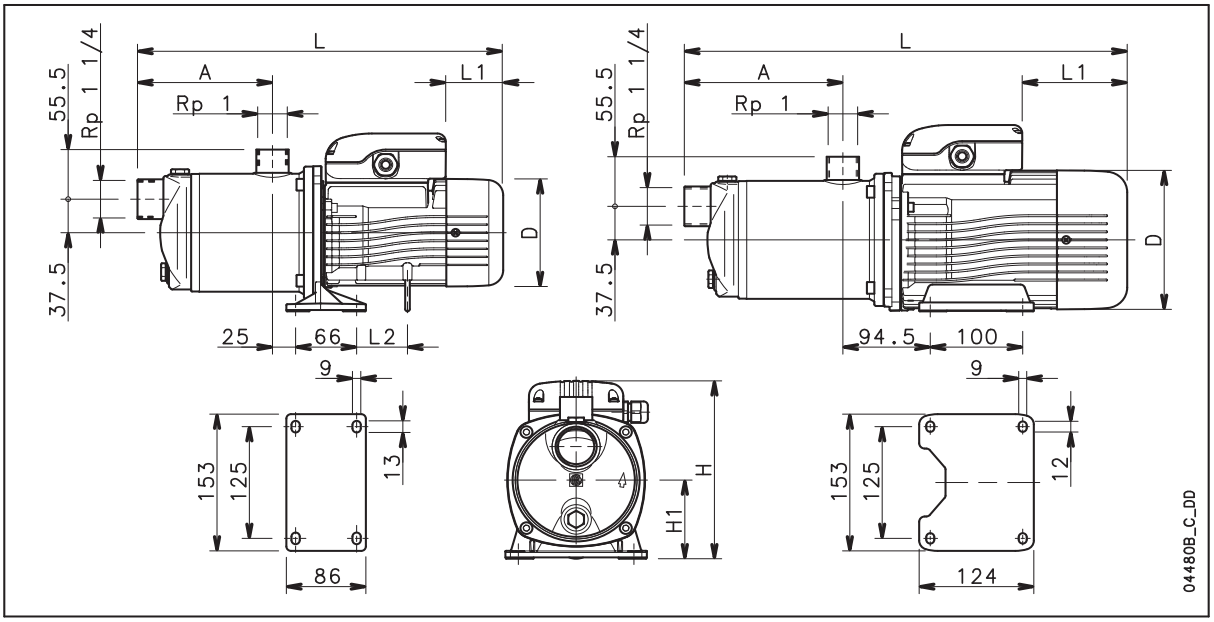






These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.

HM-HMS-HMZ SERIES
Dimensions and weights



POMP TYPE	DIMENSIONS (mm)								WEIGHT
	NUMBER OF STAGES	A	D	L	L1	L2	H	H1	kg
2HM3 - 2HM3Z	2	96	120	345	62	56	199	88	6,8
2HM4 - 2HM4Z	3	121	120	370	62	56	199	88	7,7
2HM5 - 2HM5Z	4	146	120	395	62	56	199	88	8,5
2HM7 - 2HM7Z	5	171	140	434	76	56	209	88	12
4HM4 - 4HM4Z	2	96	120	345	62	56	199	88	7,3
4HM5 - 4HM5Z	3	121	120	370	62	56	199	88	8,1
4HM7 - 4HM7Z	4	146	140	409	31	56	218	88	11,6
4HM9 - 4HM9Z	5	171	140	434	31	56	218	88	11,4
2HM3T - 2HM3ZT	2	96	120	345	62	56	199	88	6,6
2HM4T - 2HM4ZT	3	121	120	370	62	56	199	88	7,6
2HM5T - 2HM5ZT	4	146	120	395	62	56	199	88	8,3
2HM7T - 2HM7ZT	5	171	155	480	114	-	209	80	15
4HM4T - 4HM4ZT	2	96	120	345	62	56	199	88	7,2
4HM5T - 4HM5ZT	3	121	120	370	62	56	199	88	8
4HM7T - 4HM7ZT	4	146	155	455	114	-	209	80	14,5
4HM9T - 4HM9ZT	5	171	155	480	114	-	209	80	15
2HMS3	2	96	120	345	62	56	199	88	7
2HMS4R	3	121	120	370	62	56	199	88	7,6
2HMS4	4	146	120	395	62	56	199	88	8
2HMS7	5	171	140	434	76	56	209	88	12
4HMS3	2	96	120	345	62	56	199	88	7
4HMS4	3	121	120	370	62	56	199	88	7,8
4HMS5	4	146	120	395	62	56	199	88	8,7
4HMS7	5	171	140	434	76	56	209	88	10
2HMS3T	2	96	120	345	62	56	199	88	7
2HMS4RT	3	121	120	370	62	56	199	88	7,6
2HMS4T	4	146	120	395	62	56	199	88	8,2
2HMS7T	5	171	155	480	114	-	209	80	13
4HMS3T	2	96	120	345	62	56	199	88	6,8
4HMS4T	3	121	120	370	62	56	199	88	7,7
4HMS5T	4	146	120	395	62	56	199	88	8,5
4HMS7T	5	171	155	480	114	-	209	80	13,5

hm-hms-hmz-2p50-en_e_td

CEA–CA Series

Stainless steel threaded centrifugal pumps. Wide range of pumps for domestic and industrial applications.

Single-impeller (CEA) and dual-impeller (CA) models available. “V” versions with elastomers in FPM for temperatures up to 110°C and “N” versions made entirely from AISI 316 stainless steel available on request.

Specifications

Delivery: up to 31 m^3/h
Head: up to 62 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.37 kW to 3 kW
Maximum operating pressure: 8 bar
Temperature of pumped liquid:
-10°C to +85°C (CEA-CA)
-10°C to +110°C (CEA-V CA-V with elastomers in FPM)
Insulation class: 155 (F)
Protection: IP55

Materials

Pump body: Stainless steel
Impeller: Stainless steel
Diffuser: Stainless steel
Seal housing: Stainless steel
Adapter: Aluminium
Mechanical seal: Ceramic/Carbon/NBR
Fill and drain plugs: Stainless steel
Elastomers: NBR

Applications

Water distribution

Rain water collection

Industrial washing equipment

Pressure boosting

General industry

Irrigation

Water treatment

Cooling and chilling

Swimming pools (“N” versions)

Heat recovery

Heating, ventilation and air-conditioning



For a complete list of technical information, consult www.lowara.com

CEA-CEA(N) SERIES
Hydraulic performance table ~2850 rpm 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	30	40	60	80	100	120	140	160	180	200	250	300	350	400	430	480	520
			m^3/h 0	1,8	2,4	3,6	4,8	6	7,2	8,4	9,6	10,8	12	15	18	21	24	26	29	31
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																	
CEA(M) 70/3	0,37	0,5	22	20,1	19,1	16,6	12,8													
CEA(M) 70/5	0,55	0,75	31,1	28,8	27,7	24,7	20,2													
CEA(M) 80/5	0,75	1	32	30	29,3	27,4	24,7	21												
CEA(M) 120/3	0,55	0,75	22,4			18,9	17,5	15,9	14	11,8	9,2									
CEA(M) 120/5	0,9	1,2	31,8			28,2	26,5	24,6	22,4	20	17,3									
CEA(M) 210/2	0,75	1	17,7						16,5	16,1	15,6	15	14,4	12,6	10,4					
CEA(M) 210/3	1,1	1,5	20,8						19,7	19,3	19	18,5	18	16,5	14,4					
CEA(M) 210/4	1,5	2	25,5						24,8	24,5	24	23,6	23	21,3	19					
CEA(M) 210/5	1,85	2,5	29						28,2	27,9	27,5	27,1	26,6	25,1	23,1					
CEA(M) 370/1	1,1	1,5	16,3									15,5	15,2	14,3	13	11,4	9,4	8,1		
CEA(M) 370/2	1,5	2	20,4										19,1	18,3	17,2	15,8	14,1	13	10,8	
CEA(M) 370/3	1,85	2,5	24,4										22,9	22,1	21,1	19,8	18,2	17,1	15	13
CEA370/5	3	4	30,3										28,3	27,5	26,5	25,3	23,8	22,8	21	19,0

cea-2p50-en_d_th

Electrical data

PUMP TYPE 1 ~	MOTOR TYPE	INP POWER* kW	INPUT CURRENT* 220-240 V A	CAPACIT. µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
CEAM70/3	SM63BG/1045	0,60	2,72	14	CEA70/3	SM63BG/304	0,61	2,51	1,45
CEAM70/5	SM71BG/1055	0,97	4,55	16	CEA70/5	SM71BG/305	0,88	2,86	1,65
CEAM80/5	SM71BG/1075	1,07	4,87	20	CEA80/5	SM80BG/307HE	1,02	3,23	1,87
CEAM120/3	SM71BG/1055	0,91	4,33	16	CEA120/3	SM71BG/305	0,82	2,74	1,58
CEAM120/5	SM71BG/1095	1,39	6,24	25	CEA120/5	SM80BG/311HE	1,32	4,07	2,35
CEAM210/2	SM71BG/1075	1,13	5,10	20	CEA210/2	SM80BG/307HE	1,10	3,39	1,96
CEAM210/3	SM80BG/1115	1,48	6,68	30	CEA210/3	SM80BG/311HE	1,39	4,24	2,45
CEAM210/4	SM80BG/1155	1,91	8,60	40	CEA210/4	PLM90BG/315	1,77	5,33	3,08
CEAM210/5	PLM90BG/1225	2,24	10,2	70	CEA210/5	PLM90BG/322	2,20	7,35	4,24
CEAM370/1	SM80BG/1115	1,49	6,75	30	CEA370/1	SM80BG/311HE	1,44	4,34	2,51
CEAM370/2	SM80BG/1155	2,05	9,26	40	CEA370/2	PLM90BG/315	1,99	5,90	3,41
CEAM370/3	PLM90BG/1225	2,45	11,1	70	CEA370/3	PLM90BG/322	2,45	7,84	4,53
					CEA370/5	PLM90BG/330	3,26	10,1	5,86

*Maximum value in specified range.

cea-2p50-en_e_te

CA-CA(N) SERIES
Hydraulic performance table ~2850 rpm 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY												
			l/min	0	30	40	50	60	70	80	100	120	150	180	210
			m^3/h	0	1,8	2,4	3	3,6	4,2	4,8	6	7,2	9	10,8	12,6
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
CA(M) 70/33	0,75	1	42,9	38,8	36,9	34,6	31,7	28,2	23,9						
CA(M) 70/34	0,9	1,2	48,8	45,1	43,2	40,7	37,7	34,0	29,5						
CA(M) 70/45	1,1	1,5	56,2	52,0	49,8	47,1	43,9	39,9	35,3						
CA(M) 120/33	1,1	1,5	44,3			39,1	37,8	36,4	34,8	31,4	27,6	21,0			
CA(M) 120/35	1,5	2	54,0			49,4	48,1	46,6	44,9	41,2	36,8	29,3			
CA(M) 120/55	2,2	3	63,8			59,6	58,2	56,6	54,8	50,6	45,7	37,1			
CA(M) 200/33	1,85	2,5	43,2			41,8	41,2	40,6	39,9	38,3	36,4	33,2	29,5	25,5	
CA(M) 200/35	2,2	3	53,5			52,4	51,9	51,4	50,7	49,2	47,5	44,3	40,6	36,5	
CA 200/55	3	4	62,6			61,0	60,6	60,1	59,5	58,2	56,6	53,8	50,4	46,2	

ca-2p50-en_d_th

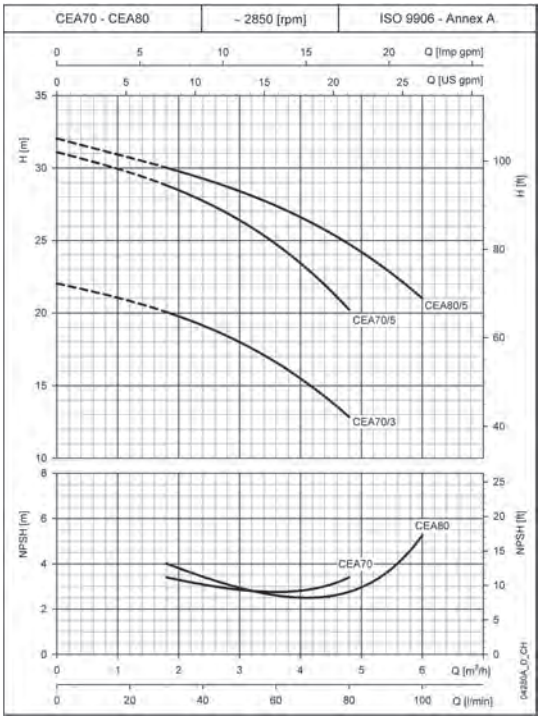
Electrical data

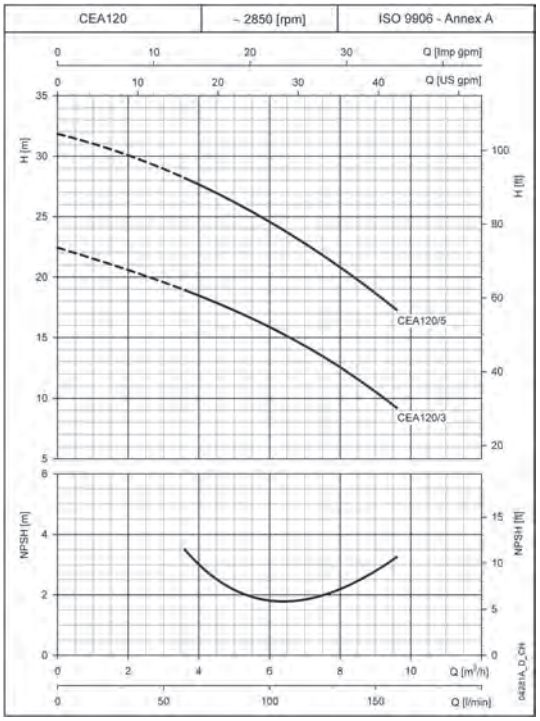
PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACIT. µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
CAM70/33	SM71CA/1075	1,15	5,16	20	CA70/33	SM80CA/307HE	1,11	3,43	1,98
CAM70/34	SM71CA/1095	1,39	6,22	25	CA70/34	SM80CA/311HE	1,32	4,05	2,34
CAM70/45	SM80CA/1115	1,76	7,92	30	CA70/45	SM80CA/311HE	1,67	4,95	2,86
CAM120/33	SM80CA/1115	1,67	7,53	30	CA120/33	SM80CA/311HE	1,58	4,72	2,73
CAM120/35	SM80CA/1155	2,18	9,87	40	CA120/35	LLM90CA/315	1,99	5,85	3,38
CAM120/55	PLM90CA/1225	2,54	11,5	70	CA120/55	LLM90CA/322	2,47	7,40	4,28
CAM200/33	PLM90CA/1225	2,29	10,4	70	CA200/33	LLM90CA/322	2,18	6,71	3,88
CAM200/35	PLM90CA/1225	2,94	12,6	70	CA200/35	LLM90CA/322	2,97	8,86	5,12
-	-	-	-	-	CA200/55	LLM90CA/330	3,52	10,7	6,19

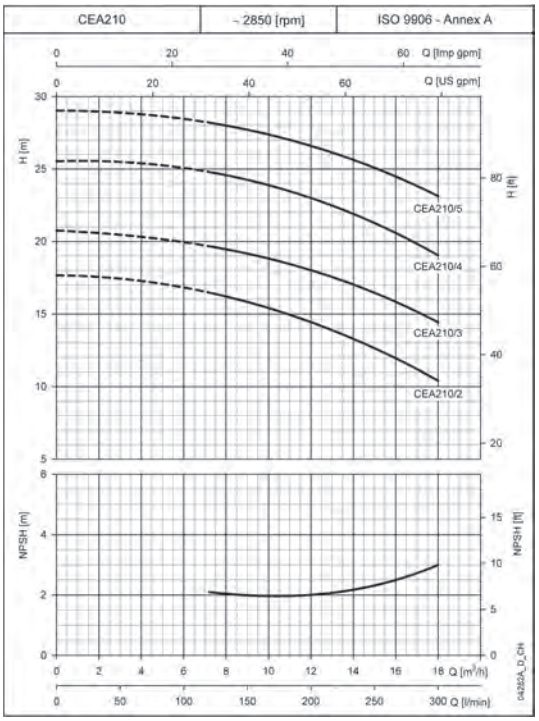
*Maximum value in specified range.

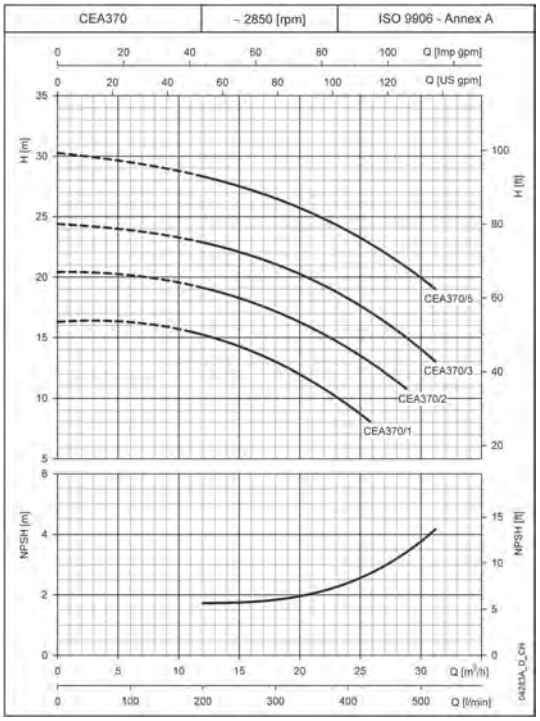
ca-2p50-en_d_te

CEA SERIES
Operating characteristics at 50 Hz



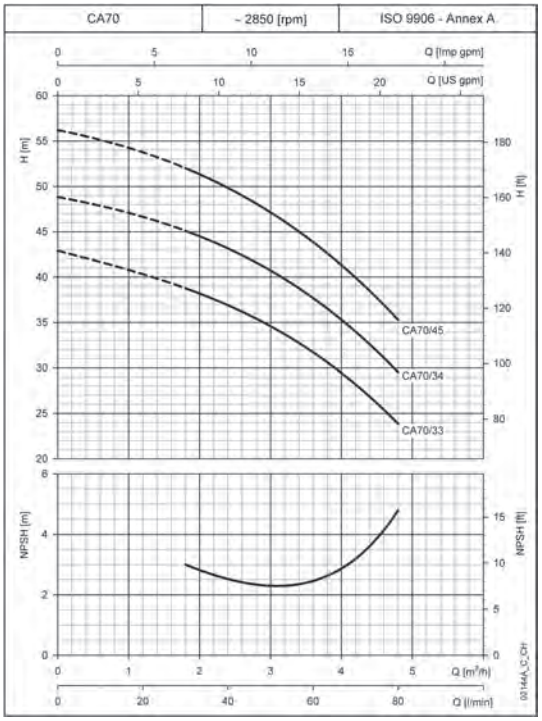


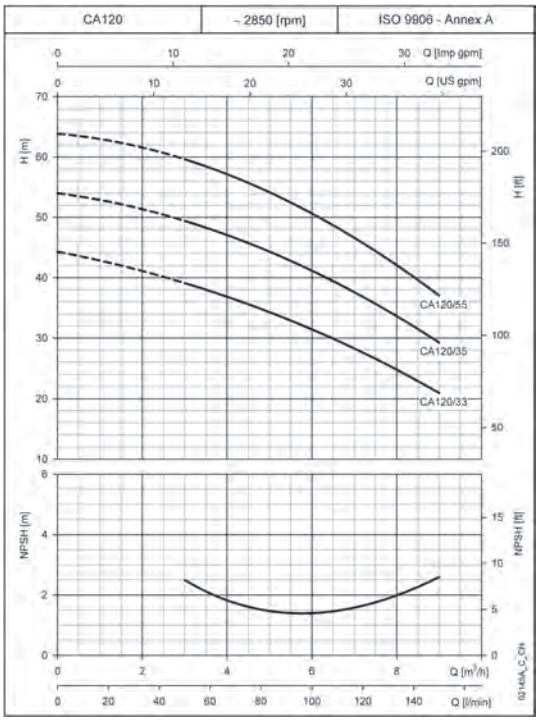


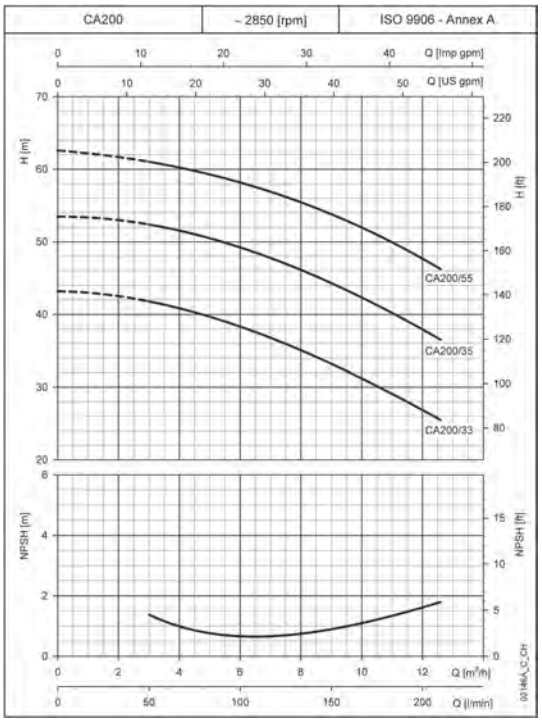


These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

CA SERIES
Operating characteristics at 50 Hz

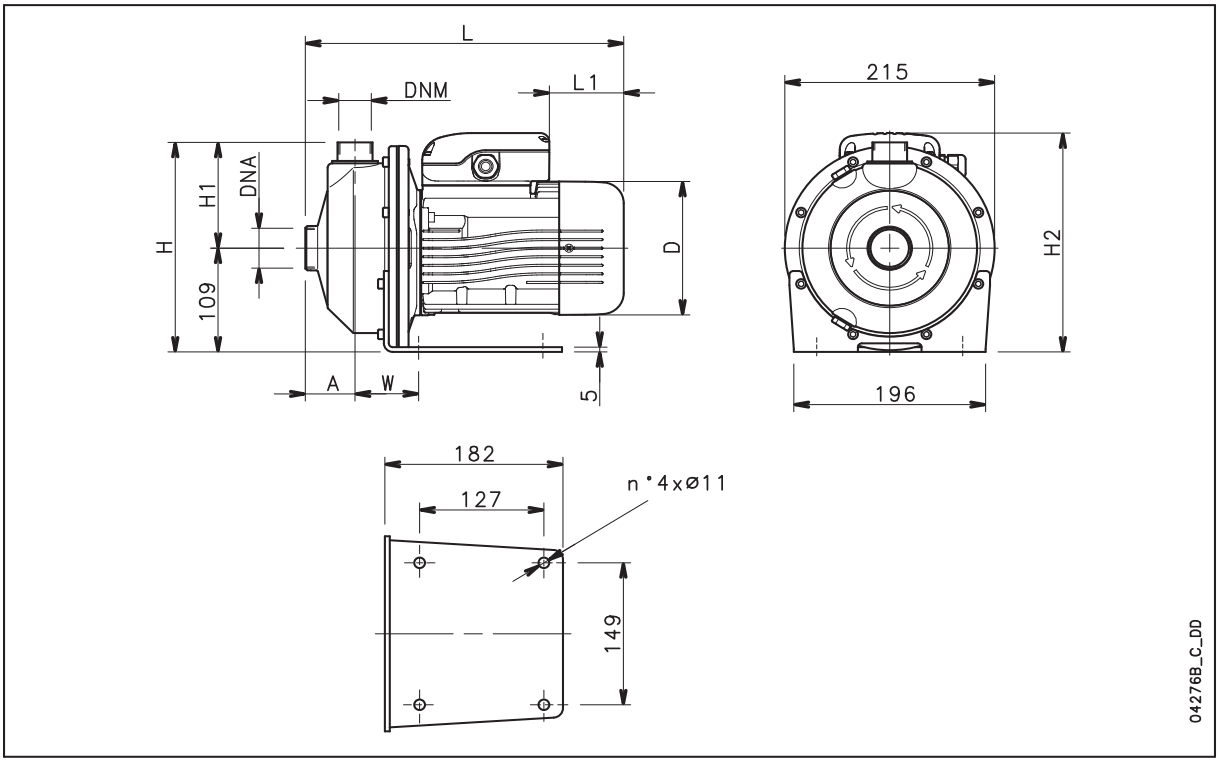






These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

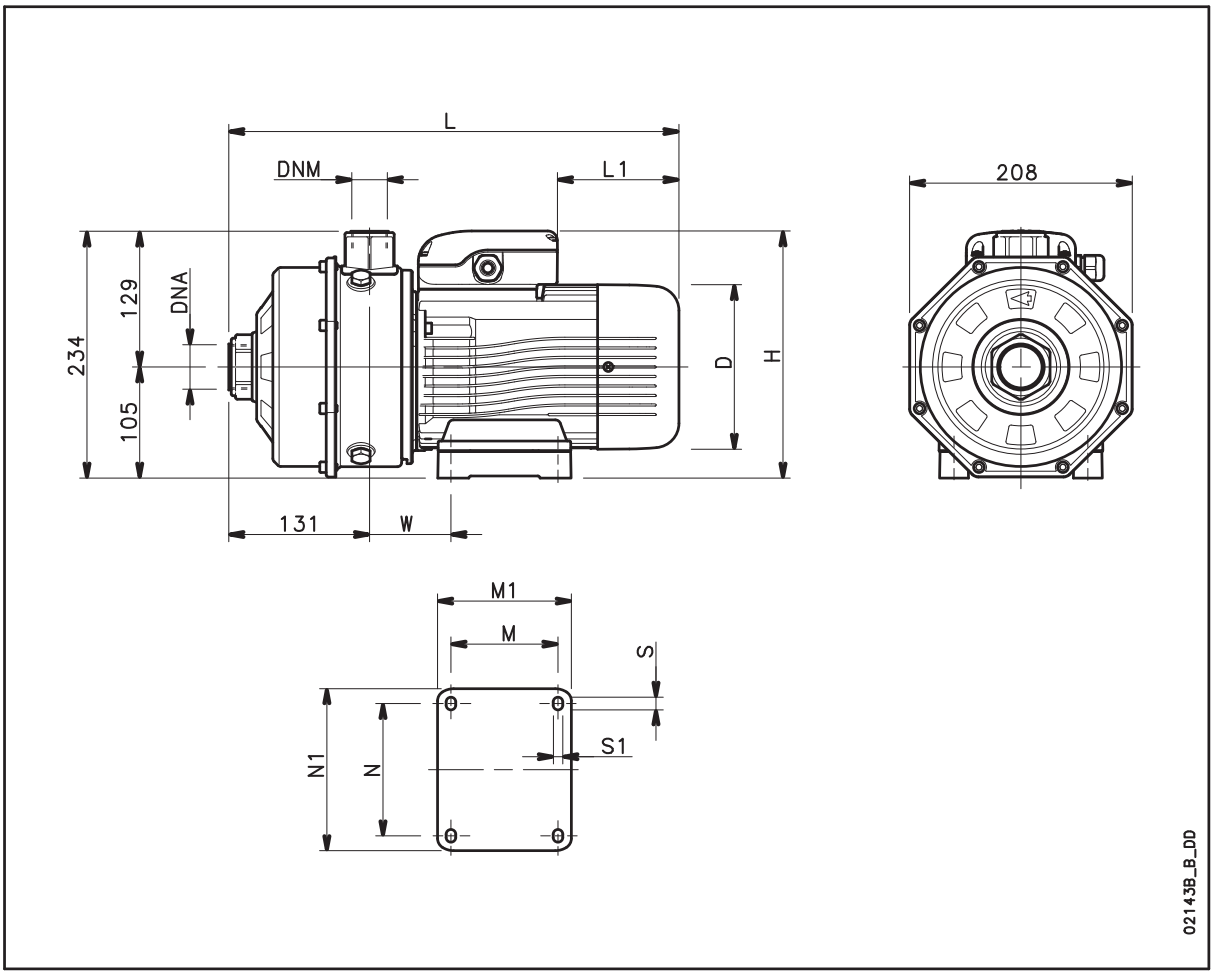
CEA-CEA(N) SERIES
Dimensions and weights



PUMP TYPE	DIMENSIONS (mm								DNA	DNM	WEIGHT
	A	D	H	H1	H2	L	L1	W			kg
CEAM 70/3	51	120	220	111	220	311	62	65	Rp 1¼	Rp 1	9,7
CEAM 70/5	51	140	220	111	230	325	76	65	Rp 1¼	Rp 1	11,6
CEAM 80/5	51	140	220	111	230	325	76	65	Rp 1¼	Rp 1	12,5
CEAM 120/3	51	140	220	111	230	325	76	65	Rp 1¼	Rp 1	11,5
CEAM 120/5	51	140	220	111	239	325	31	65	Rp 1¼	Rp 1	13
CEAM 210/2	54	140	222	113	230	339	76	76	Rp 1½	Rp 1¼	13
CEAM 210/3	54	156	222	113	246	385	69	76	Rp 1½	Rp 1¼	14,5
CEAM 210/4	54	156	222	113	246	385	69	76	Rp 1½	Rp 1¼	16,1
CEAM 210/5	54	174	222	113	243	429	84	76	Rp 1½	Rp 1¼	17
CEAM 370/1	54	156	222	113	246	385	69	76	Rp 2	Rp 1¼	14
CEAM 370/2	54	156	222	113	246	385	69	76	Rp 2	Rp 1¼	16,1
CEAM 370/3	54	174	222	113	243	429	84	76	Rp 2	Rp 1¼	20
CEA 70/3	51	120	220	111	220	311	62	65	Rp 1¼	Rp 1	9,7
CEA 70/5	51	140	220	111	230	325	76	65	Rp 1¼	Rp 1	11,6
CEA 80/5	51	155	220	111	238	371	114	65	Rp 1¼	Rp 1	15,8
CEA 120/3	51	140	220	111	230	325	76	65	Rp 1¼	Rp 1	11,5
CEA 120/5	51	155	220	111	238	371	114	65	Rp 1¼	Rp 1	16
CEA 210/2	54	155	222	113	238	385	114	76	Rp 1½	Rp 1¼	16
CEA 210/3	54	155	222	113	238	385	114	76	Rp 1½	Rp 1¼	17,8
CEA 210/4	54	174	222	113	243	429	172	76	Rp 1½	Rp 1¼	21
CEA 210/5	54	174	222	113	243	429	172	76	Rp 1½	Rp 1¼	21
CEA 370/1	54	155	222	113	238	385	114	76	Rp 2	Rp 1¼	17
CEA 370/2	54	174	222	113	243	429	172	76	Rp 2	Rp 1¼	21
CEA 370/3	54	174	222	113	243	429	172	76	Rp 2	Rp 1¼	21
CEA 370/5	54	174	222	113	243	429	172	76	Rp 2	Rp 1¼	21

cea-2p50-en f td

CA-CA(N) SERIES
Dimensions and weights



PUMP TYPE	DIMENSIONS (mm)											DNA	DNM	WEIGHT
	D	H	L	L1	M	M1	N	N1	S	S1	W			kg
CAM 70/33	140	226	383	76	90	113	112	135	12	7	66	Rp 1¼	Rp 1	15
CAM 70/34	140	235	383	31	90	113	112	135	12	7	66	Rp 1¼	Rp 1	15,8
CAM 70/45	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,5
CAM 120/33	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18,4
CAM 120/35	156	242	420	69	100	125	125	153	12	9	76	Rp 1¼	Rp 1	20,2
CAM 120/55	174	239	454	84	125	155	140	170	13	10	98	Rp 1¼	Rp 1	27
CAM 200/33	174	239	454	84	125	155	140	170	13	10	98	Rp 1½	Rp 1	27
CAM 200/35	174	239	454	84	125	155	140	170	13	10	98	Rp 1½	Rp 1	27
CA 70/33	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	18
CA 70/34	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	19
CA 70/45	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	20
CA 120/33	155	234	420	114	100	125	125	153	12	9	76	Rp 1¼	Rp 1	20
CA120/35	178	242	433	125	125	150	140	170	13	10	98	Rp 1¼	Rp 1	22,5
CA 120/55	178	242	433	125	125	150	140	170	13	10	98	Rp 1¼	Rp 1	24
CA 200/33	178	242	433	125	125	150	140	170	13	10	98	Rp 1½	Rp 1	24
CA 200/35	178	242	433	125	125	150	140	170	13	10	98	Rp 1½	Rp 1	24
CA 200/55	178	242	453	145	125	150	140	170	13	10	98	Rp 1½	Rp 1	26

ca-2p50_g_td

CO Series

Threaded centrifugal pumps with open impeller. These pumps combine the advantages of an open impeller with those of AISI 316 stainless steel which is particularly suited for pumping moderately aggressive liquids containing suspended solids.

Specifications

Delivery: up to 54 m^3/h
Head: up to 24 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.37 kW to 3 kW
Maximum operating pressure: 8 bar
Temperature of pumped liquid: -10°C to +120°C
Insulation class: 155 (F)
Protection: IP55
Open impeller pumps solids up to:
CO350 - 11 mm
CO500 - 20 mm

Materials

Pump body: Stainless steel AISI 316L
Impeller: Stainless steel AISI 316L
Seal housing: Stainless steel AISI 316L
Mechanical seal: Ceramic/Carbon/FPM
Fill and drain plugs: Stainless steel
Elastomers: FPM

Applications

Washing of metal parts and/or surface treatment

Washing of produce in the packaging industry

Food industry washing equipment and systems

Dyeing plant and textile industry

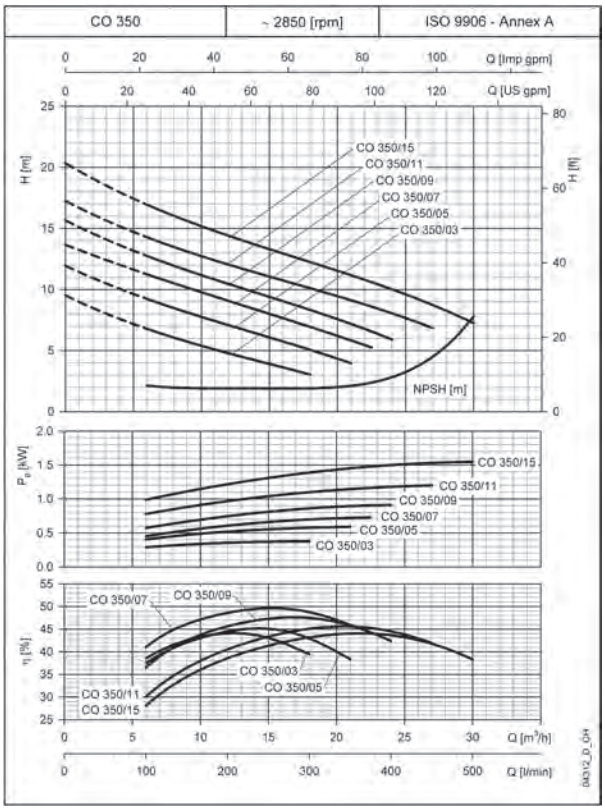
Plants for the circulation and transfer of moderately viscous liquids, with light chemical aggressiveness

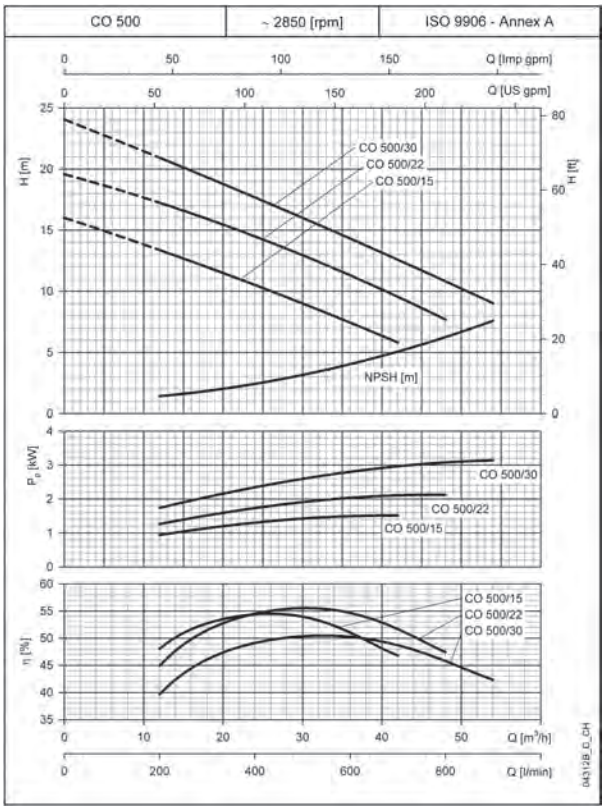
Industrial washing machine and commercial dishwashers



For a complete list of technical information, consult www.lowara.com

CO SERIES
Operating characteristics at 50 Hz





These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Black and white technical books available
see www.lowara.it

CO SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	100	120	160	200	240	280	300	350	375	400	450	500	600	650	700	800	900
			m^3/h 0	6	7,2	9,6	12	14,4	16,8	18	21	22,5	24	27	30	36	39	42	48	54
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)																	
CO(M) 350/03	0,37	0,5	9,5	6,8	6,3	5,5	4,8	4,1	3,4	3,0										
CO(M) 350/05	0,55	0,75	12,0	9,2	8,8	7,9	7,1	6,3	5,5	5,1	4,0									
CO(M) 350/07	0,75	1	13,7	11,2	10,8	9,9	9,1	8,2	7,4	6,9	5,8	5,3								
CO(M) 350/09	0,9	1,2	15,7	12,7	12,2	11,3	10,5	9,6	8,8	8,3	7,2	6,6	5,9							
CO(M) 350/11	1,1	1,5	17,3	14,3	13,8	12,9	12,0	11,2	10,5	10,1	9,1	8,6	8,0	6,8						
CO(M) 350/15	1,5	2	20,3	16,9	16,4	15,3	14,4	13,5	12,7	12,2	11,2	10,6	10,0	8,7	7,2					
CO(M) 500/15	1,5	2	16,0				13,4	12,8	12,3	12,0	11,3	10,9	10,5	9,8	9,0	7,4	6,6	5,8		
CO(M) 500/22	2,2	3	19,6				17,3	16,7	16,2	15,9	15,2	14,9	14,5	13,7	13,0	11,3	10,4	9,6	7,7	
CO 500/30	3	4	24,1				20,9	20,3	19,7	19,3	18,5	18,1	17,7	16,9	16,0	14,3	13,5	12,6	10,8	9,0

co-2p50_d_th

Electrical data

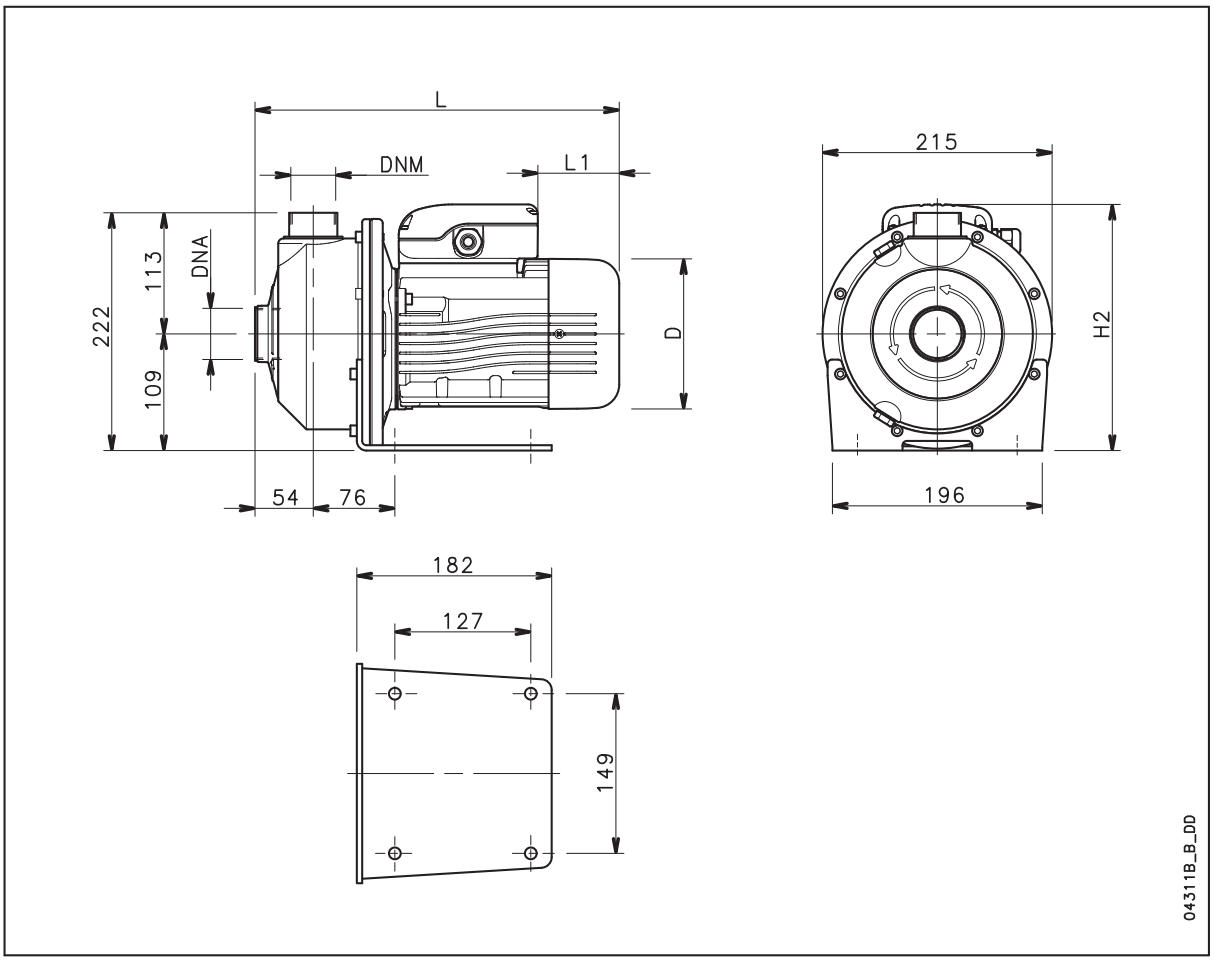
PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACIT. µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
COM350/03	SM63BG/1045	0,63	2,82	14	C0350/03	SM63BG/304	0,64	2,53	1,46
COM350/05	SM71BG/1055	0,88	4,25	16	CO350/05	SM71BG/305	0,79	2,70	1,56
COM350/07	SM71BG/1075	1,02	4,67	20	C0350/07	SM80BG/307HE	0,98	3,10	1,79
COM350/09	SM71BG/1095	1,21	5,46	25	CO350/09	SM80BG/311HE	1,12	3,60	2,08
COM350/11	SM80BG/1115	1,75	7,85	30	C0350/11	SM80BG/311HE	1,67	4,90	2,83
COM350/15	SM80BG/1155	2,04	9,21	40	CO350/15	PLM90BG/315	1,91	5,69	3,29
COM500/15	SM80BG/1155	2,02	9,12	40	C0500/15	PLM90BG/315	1,89	5,62	3,25
COM500/22	PLM90BG/1225	2,72	12,7	70	CO500/22	PLM90BG/322	2,66	8,27	4,78
-	-	-	-	-	C0500/30	PLM90BG/330	3,80	11,4	6,57

*Maximum value in specified range.

co-2p50-en_e_te



CO SERIES
Dimensions and weights



PUMP TYPE	DIMENSIONS (mm)				DNA	DNM	WEIGHT
	D	H2	L	L1			kg
COM 350/03	120	220	325	62	Rp 1½	Rp 1¼	10
COM 350/05	140	230	339	76	Rp 1½	Rp 1¼	11,9
COM 350/07	140	230	339	76	Rp 1½	Rp 1¼	12,6
COM 350/09	140	239	339	31	Rp 1½	Rp 1¼	13,2
COM 350/11	156	246	385	69	Rp 1½	Rp 1¼	14,5
COM 350/15	156	246	385	69	Rp 1½	Rp 1¼	16,2
COM 500/15	156	246	385	69	Rp 2	Rp 1½	16,2
COM 500/22	174	243	429	84	Rp 2	Rp 1½	20
CO 350/03	120	220	325	62	Rp 1½	Rp 1¼	10
CO 350/05	140	230	339	76	Rp 1½	Rp 1¼	11,9
CO 350/07	155	238	385	114	Rp 1½	Rp 1¼	15,5
CO 350/09	155	238	385	114	Rp 1½	Rp 1¼	15,5
CO 350/11	155	238	385	114	Rp 1½	Rp 1¼	17
CO 350/15	174	243	429	172	Rp 1½	Rp 1¼	21
CO 500/15	174	243	429	172	Rp 2	Rp 1½	21
CO 500/22	174	238	429	172	Rp 2	Rp 1½	23
CO 500/30	174	243	429	172	Rp 2	Rp 1½	25

co-2p50-en_e_td

SHO Series

End suction, centrifugal pumps, with open and recessed impeller. They are ideal for various civil and industrial clean water applications. The are made of pressed AISI 316 stainless steel (pump body) and of precision cast stainless steel (impeller), minimising contamination and extending the like of the pump.

Available versions:
SHOE Close-coupled with special motor shaft extension.

SHOS With rigid coupling and standard motor shaft extension.

SHOD Execution with double mechanical seal.

Specifications

Delivery: up to 56 m^3/h.
Head: up to 50 m
Power supply: three-phase and singlephase 50 and 60 Hz
Power: 0.37 kW to 11 kW
Maximum operating pressure: 12 bar
Temperature of pumped liquid: -10°C to +120°C
Insulation class: 155 (F)
Protection: IP55
Open impeller pumps solids up to: From 20 to 40mm depending on the models.

Materials

Pump body: Stainless steel
Impeller: Stainless steel
Seal housing: Stainless steel
Mechanical seal:
Version E/S: Silicon Carbide/Silicon Carbide/FPM
Version D, Pump side: Silicon Carbide/ Silicon
Carbide/FPM (standard version); Drive side: Ceramic/carbon/FPM
Fill and drain plugs: Stainless steel
Elastomers: FPM (standard version)

Applications

Industrial washing machines and washing of mechanical parts

Washing machine emptying

Commercial dishwashers

Vacuum steamers

Dyeing plants and textile industry

Painting plants

Washing system for the food industry

Plants for the circulation and transfer of moderately viscous liquids, with light chemical aggressiveness

Freshwater fish farming



For a complete list of technical information, consult www.lowara.com

List of models SHO SERIES 50 Hz

2 Poles

SIZE	kW	VERSIONS		
		SHOE	SHOS	SHOD
25-125/11	1,1	•	•	•
25-125/15	1,5	•	•	•
25-125/22	2,2	•	•	•
25-160/30	3	•	•	•
25-160/40	4	•	•	•
25-160/55	5,5	•	•	•
25-200/30	3	•	•	•
25-200/40	4	•	•	•
25-200/55	5,5	•	•	•
32-125/11	1,1	•	•	•
32-125/15	1,5	•	•	•
32-125/22	2,2	•	•	•
32-160/30	3	•	•	•
32-160/40	4	•	•	•
32-160/55	5,5	•	•	•
32-200/30	3	•	•	•
32-200/40	4	•	•	•
32-200/55	5,5	•	•	•
40-125/15	1,5	•	•	•
40-125/22	2,2	•	•	•
40-125/30	3	•	•	•
40-160/40	4	•	•	•
40-160/55	5,5	•	•	•
40-160/75	7,5	•	•	•
50-125/55	5,5	•	•	•
50-125/75	7,5	•	•	•
50-160/92	9,2	•	-	-
50-160/110A	11	-	•	•
50-160/110	11	•	•	•

• = Available

sho_2p50-en_a_tem

4 Poles

SIZE	kW	VERSIONS		
		SHOE4	SHOS4	SHOD4
25-125/03	0,37	•	•	•
25-160/03	0,37	•	•	•
25-160/05	0,55	•	•	•
25-160/07	0,75	•	•	•
25-200/07	0,75	•	•	•
32-125/03	0,37	•	•	•
32-160/03	0,37	•	•	•
32-160/05	0,55	•	•	•
32-160/07	0,75	•	•	•
32-200/07	0,75	•	•	•
40-125/03	0,37	•	•	•
40-160/05	0,55	•	•	•
40-160/07	0,75	•	•	•
40-160/11	1,1	•	•	•
50-125/07	0,75	•	•	•
50-125/11	1,1	•	•	•
50-160/11	1,1	•	•	•
50-160/15	1,5	•	•	•

• = Available

sho4_4p50_a_tem

Black and white technical books available

see www.lowara.it

SHOE - SHOS SHOD SERIES
Table of hydraulic performances at 50 Hz, 2 poles

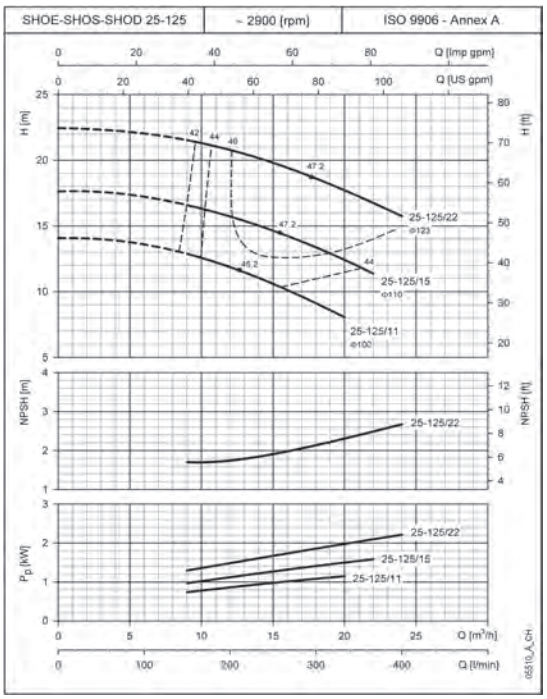
PUMP TYPE	RATED POWER		Q = DELIVERY																	Passes solids up to (mm)
			l/min 0	150	200	250	300	333	350	367	383	400	500	550	567	600	667	800	950	
	kW	HP	m^3/h 0	9	12	15	18	20	21	22	23	24	30	33	34	36	40	48	57	
			H = TOTAL HEAD METRES COLUMN OF WATER																	
SHO.. 25-125/11	1,1	1,5	14,1	12,9	11,9	10,6	9,1	8,0												22
SHO.. 25-125/15	1,5	2	17,6	16,6	15,7	14,6	13,4	12,4	11,9	11,4										22
SHO.. 25-125/22	2,2	3	22,4	21,5	20,8	19,8	18,6	17,7	17,2	16,8	16,3	15,7								22
SHO.. 25-160/30	3	4	29,3	28,3	27,4	26,2	24,9	23,9	23,4	22,9										22
SHO.. 25-160/40	4	5,5	36,7	36,2	35,5	34,4	33,2	32,2	31,7	31,2	30,6									22
SHO.. 25-160/55	5,5	7,5	44,8	44,7	44,2	43,5	42,4	41,6	41,1	40,6	40,1	39,5								22
SHO.. 25-200/30	3	4	32,6	31,4	30,4	29,2	27,6	26,5												20
SHO.. 25-200/40	4	5,5	40,7	40,0	39,2	38,1	36,8	35,8	35,2											20
SHO.. 25-200/55	5,5	7,5	49,3	48,9	48,2	47,2	45,9	45,0	44,6	44,1										20
SHO.. 32-125/11	1,1	1,5	14,0	13,2	12,4	11,5	10,4	9,6												22
SHO.. 32-125/15	1,5	2	17,6	16,7	16,1	15,4	14,4	13,7	13,4	13,0										22
SHO.. 32-125/22	2,2	3	22,7	21,9	21,4	20,7	19,9	19,3	19,0	18,7	18,4	18,1								22
SHO.. 32-160/30	3	4	29,3	28,6	27,9	27,1	26,1	25,4	25,0	24,6										22
SHO.. 32-160/40	4	5,5	36,8	36,4	36,0	35,3	34,4	33,7	33,3	32,9	32,5									22
SHO.. 32-160/55	5,5	7,5	44,7	44,7	44,5	44,0	43,4	42,9	42,6	42,2	41,9	41,5								22
SHO.. 32-200/30	3	4	32,6	31,4	30,6	29,5	28,1	27,0												20
SHO.. 32-200/40	4	5,5	40,9	40,3	39,5	38,6	37,4	36,5	36,1											20
SHO.. 32-200/55	5,5	7,5	49,5	49,0	48,4	47,6	46,6	45,8	45,4	45,0										20
SHO.. 40-125/15	1,5	2	14,0		13,5	13,1	12,5	12,1	11,9	11,7	11,4	11,2								30
SHO.. 40-125/22	2,2	3	18,6		17,8	17,3	16,8	16,4	16,2	16,0	15,9	15,7	14,3							30
SHO.. 40-125/30	3	4	20,9		19,9	19,5	19,0	18,7	18,5	18,3	18,1	17,9	16,6	15,9						30
SHO.. 40-160/40	4	5,5	31,3		30,7	30,2	29,5	29,1	28,8	28,6	28,3	28,1	26,6							30
SHO.. 40-160/55	5,5	7,5	38,7		38,3	37,9	37,4	36,9	36,7	36,4	36,1	35,9	34,1	33,2	33,0					30
SHO.. 40-160/75	7,5	10	42,9		42,8	42,4	42,0	41,6	41,4	41,2	41,0	40,8	39,3	38,5	38,2	37,6				30
SHO.. 50-125/55	5,5	7,5	29,7				29,3	29,1	29,0	28,9	28,8	28,7	28,0	27,6	27,5	27,2	26,7			40
SHO.. 50-125/75	7,5	10	32,0				31,7	31,6	31,5	31,4	31,3	31,2	30,5	30,1	30,0	29,7	29,2	28,2		40
SHO.. 50-160/92	9,2	12,5	41,9									40,4	39,3	38,8	38,6	38,3	37,7	36,6		30
SHO.. 50-160/110	11	15	45,1									43,2	42,2	41,6	41,5	41,1	40,5	39,4	38,4	30

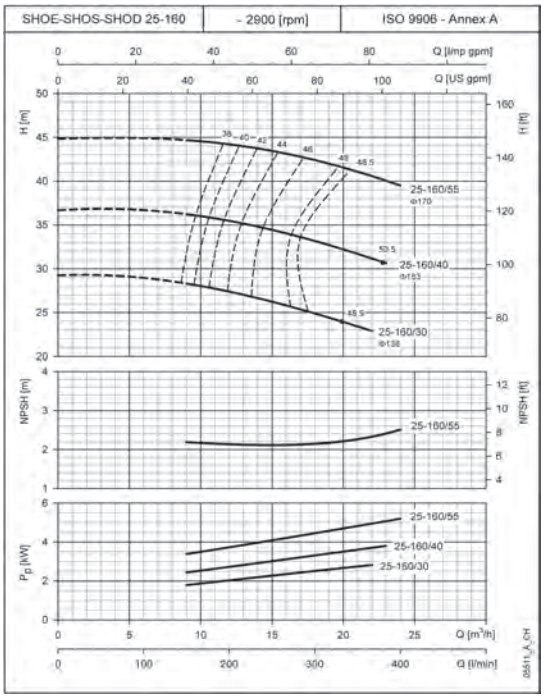
Performances according to ISO standards 9906 - Annex A.

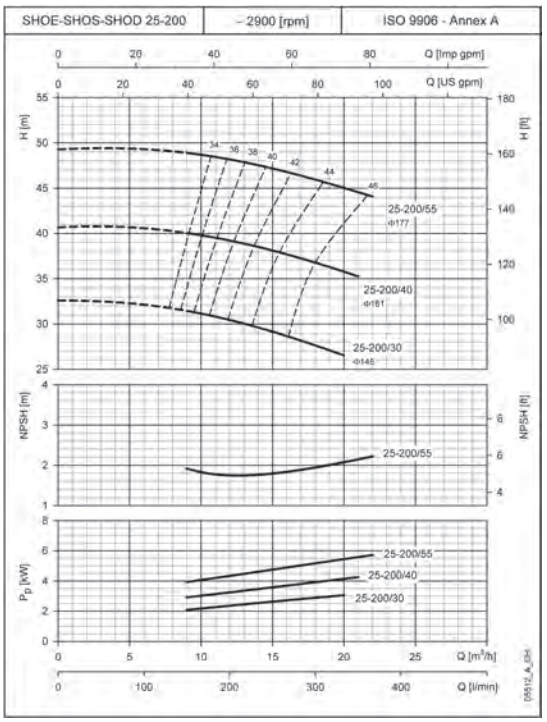
sho_2p50-en_c_th

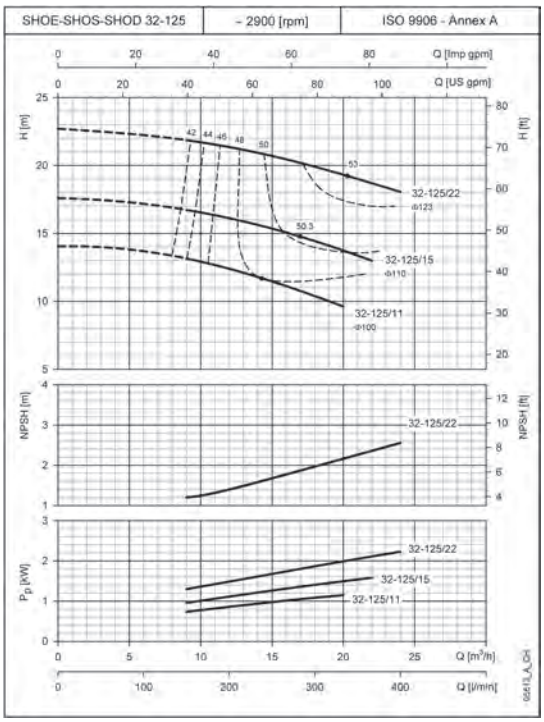


SHOE - SHOS - SHOD SERIES
Operating characteristics at 50 Hz, 2 poles



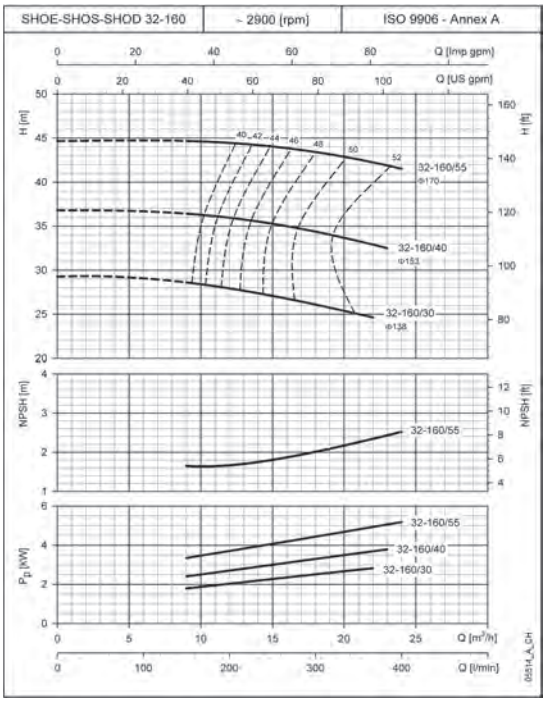


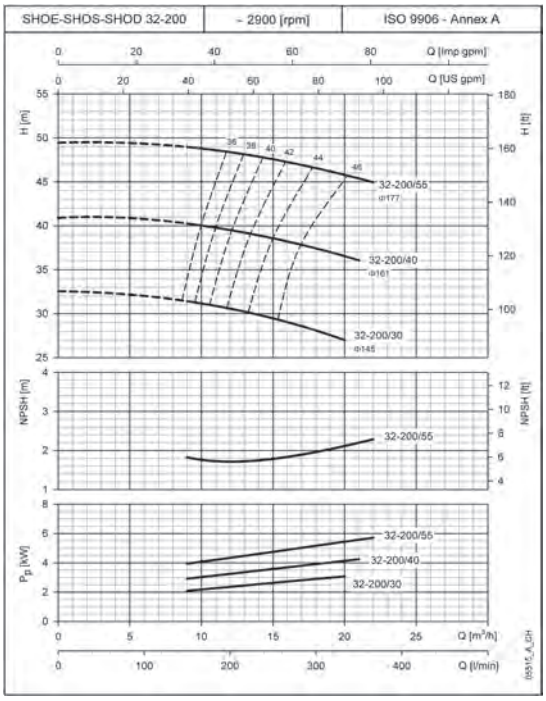


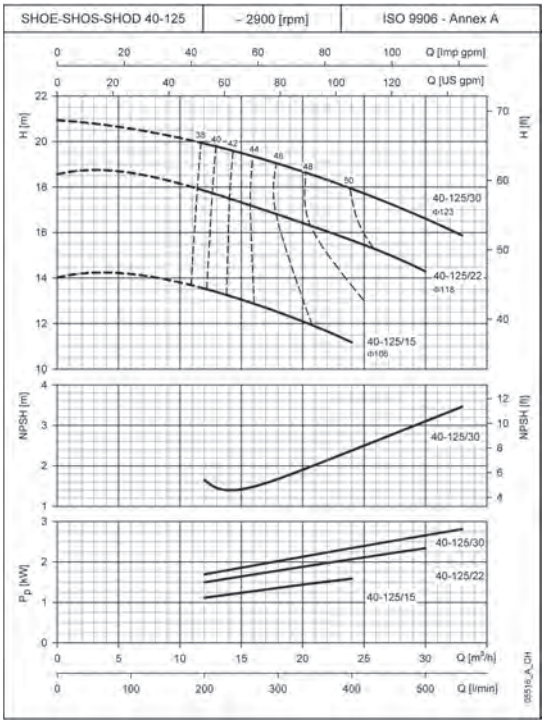


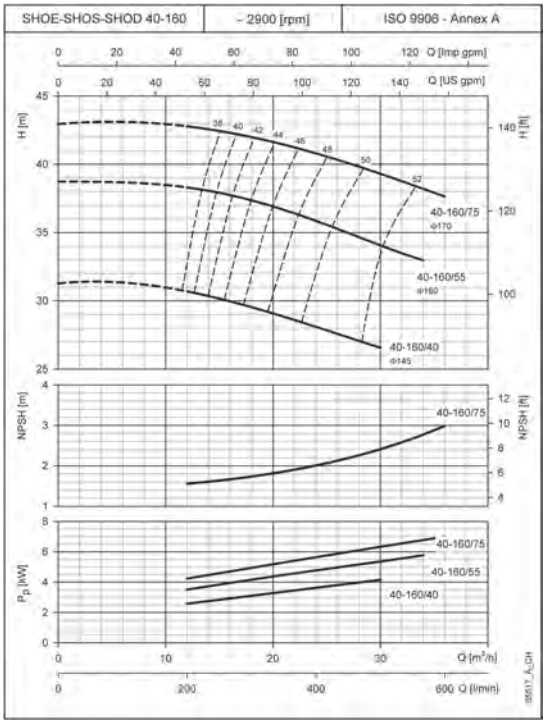
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SHOE - SHOS - SHOD SERIES
Operating characteristics at 50 Hz, 2 poles



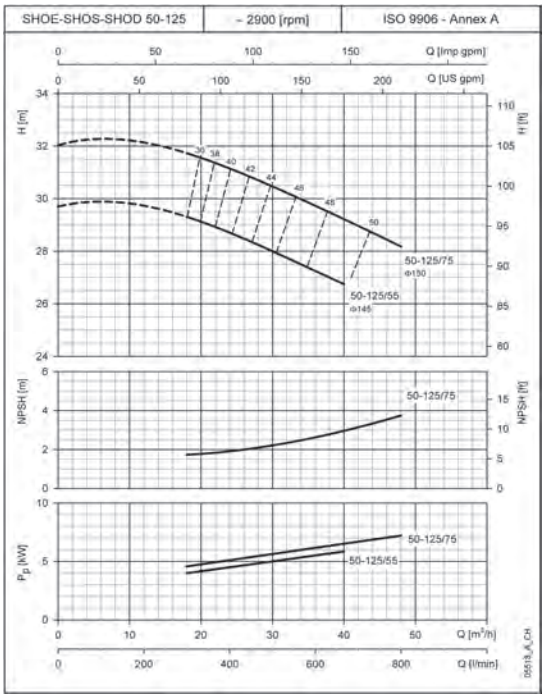


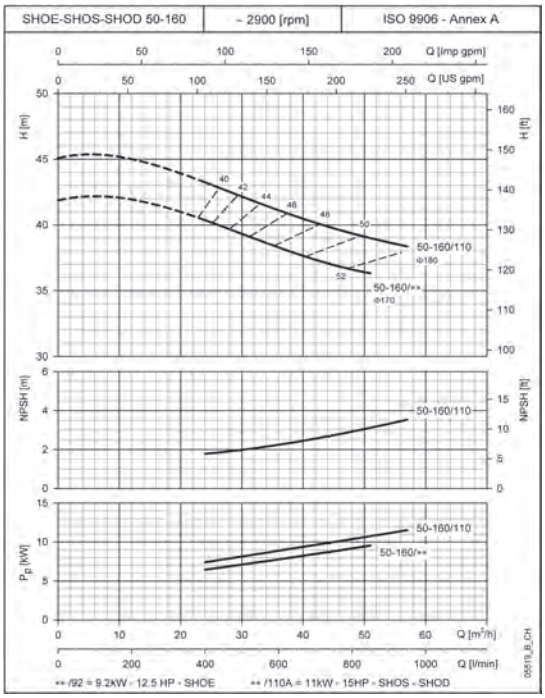




These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.

SHOE - SHOS - SHOD SERIES
Operating characteristics at 50 Hz, 2 poles





These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

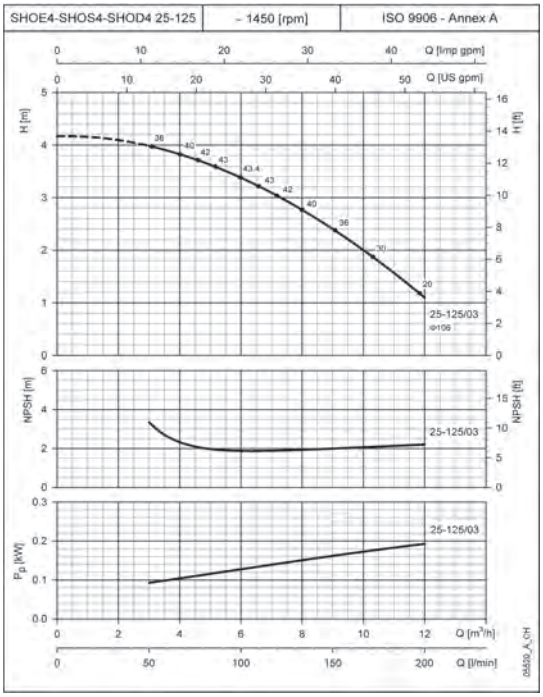
SHOE4 - SHOS4 - SHOD4 SERIES
Table of hydraulic performances at 50 Hz, 4 poles

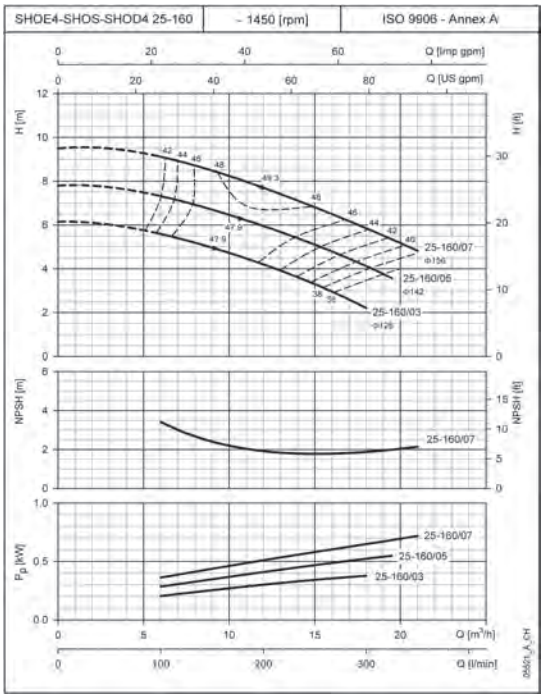
PUMP TYPE	RATED POWER		Q = DELIVERY																		Passes solids up to (mm)
	kW	HP	l/min 0	50	100	150	200	250	300	350	400	500	550	600	650	700	800	867	900		
			m^3/h 0	3	6	9	12	15	18	21	24	30	33	36	39	42	48	52	54		
			H = TOTAL HEAD METRES COLUMN OF WATER																		
SHO..4 25-125/03	0,37	0,5	4,2	4,0	3,4	2,4	1,1														22
SHO..4 25-160/03	0,37	0,5	6,1		5,6	5,0	4,2	3,3	2,2												22
SHO..4 25-160/05	0,55	0,75	7,8		7,3	6,7	6,0	5,1	4,1												22
SHO..4 25-160/07	0,75	1	9,5		9,1	8,5	7,7	6,8	5,9	4,8											22
SHO..4 25-200/07	0,75	1	12,0	11,8	11,2	10,2	8,8	7,1													20
SHO..4 32-125/03	0,37	0,5	4,2		3,8	3,4	2,9	2,3													22
SHO..4 32-160/03	0,37	0,5	6,2		5,7	5,2	4,7	4,0	3,3												22
SHO..4 32-160/05	0,55	0,75	7,8		7,5	7,0	6,5	6,0	5,3												22
SHO..4 32-160/07	0,75	1	9,5		9,3	8,9	8,4	7,8	7,1	6,4											22
SHO..4 32-200/07	0,75	1	12,0		11,5	11,0	10,2	9,3													20
SHO..4 40-125/03	0,37	0,5	3,7			3,3	3,0	2,6	2,2	1,8	1,4										30
SHO..4 40-160/05	0,55	0,75	5,9			5,4	5,1	4,7	4,2	3,7	3,2	2,0	1,4								30
SHO..4 40-160/07	0,75	1	7,5			7,0	6,7	6,3	6,0	5,5	5,1	4,0	3,4	2,8							30
SHO..4 40-160/11	1,1	1,5	9,3			8,9	8,7	8,3	8,0	7,6	7,3	6,4	5,9	5,4	4,8						30
SHO..4 50-125/07	0,75	1	5,4					4,9	4,7	4,4	4,0	3,3	3,0	2,6	2,3	1,9					40
SHO..4 50-125/11	1,1	1,5	6,5					6,2	6,1	5,8	5,6	4,9	4,5	4,1	3,7	3,3	2,7				40
SHO..4 50-160/11	1,1	1,5	7,4					6,9	6,7	6,4	6,1	5,5	5,1	4,8	4,4	3,9	3,0	2,4			40
SHO..4 50-160/15	1,5	2	9,2					8,6	8,4	8,2	8,0	7,5	7,2	7,0	6,7	6,4	5,7	5,1	4,7		40

Performances according to ISO standards 9906 - Annex A.

sho_4p50-en_c_th

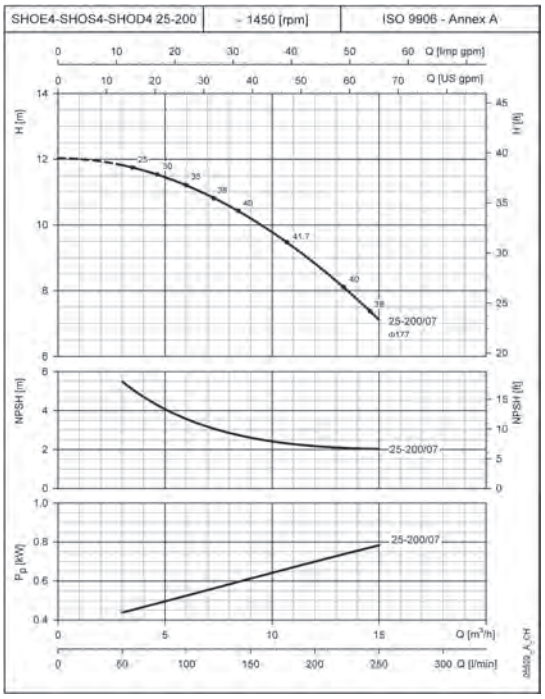
SHOE4 - SHOS4 - SHOD4 SERIES
Operating characteristics at 50 Hz, 4 poles

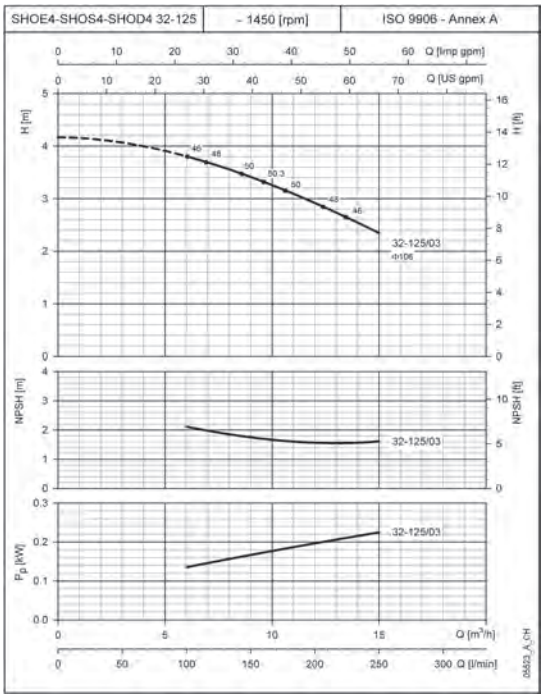


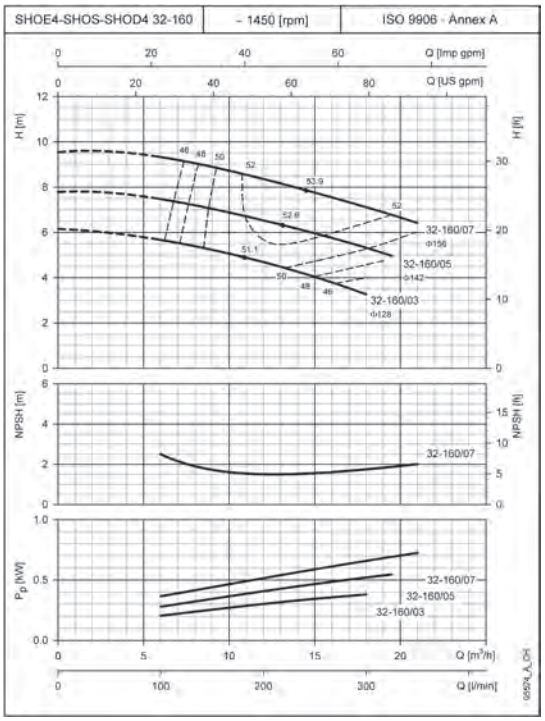


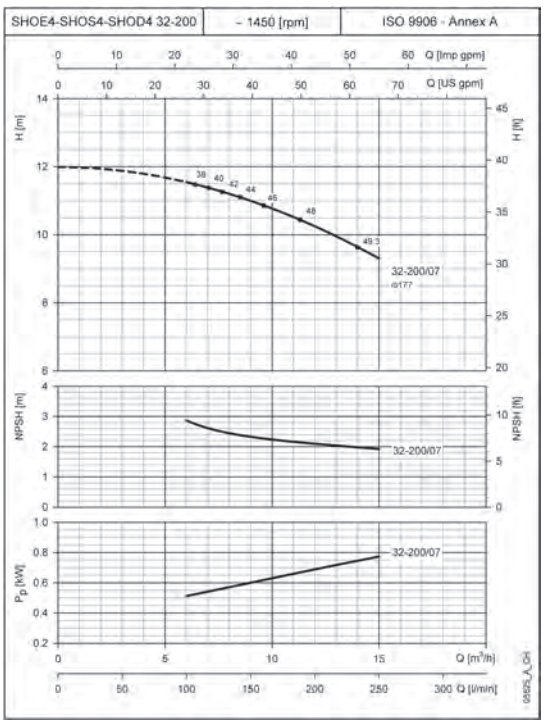
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

SHOE4 - SHOS4 - SHOD4 SERIES
Operating characteristics at 50 Hz, 4 poles



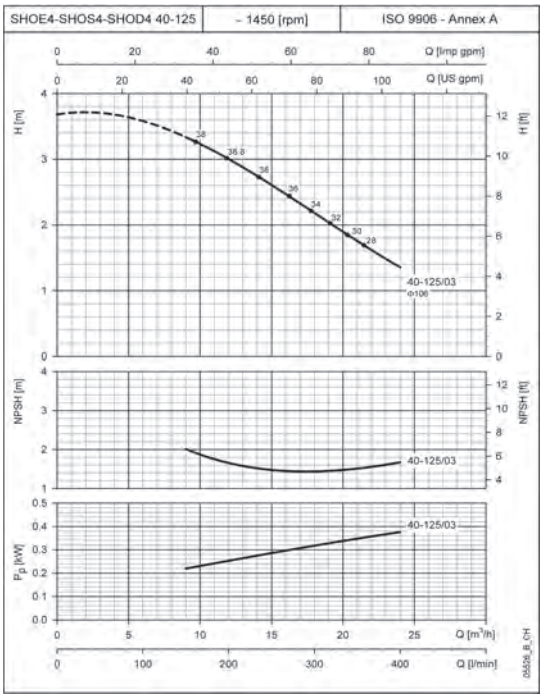


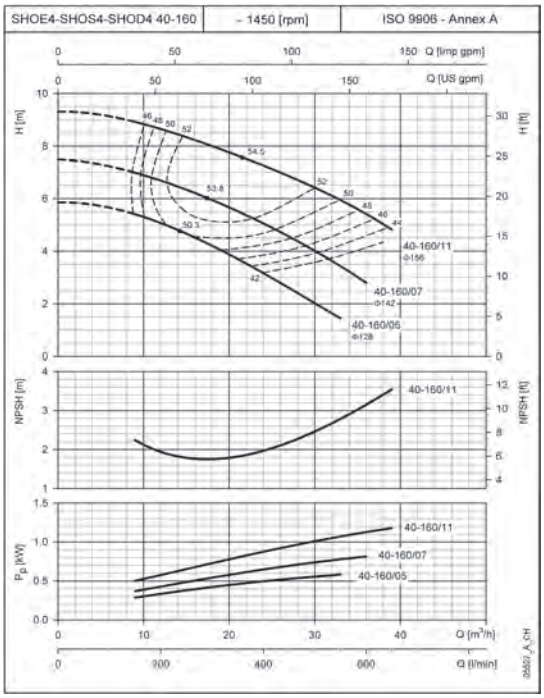


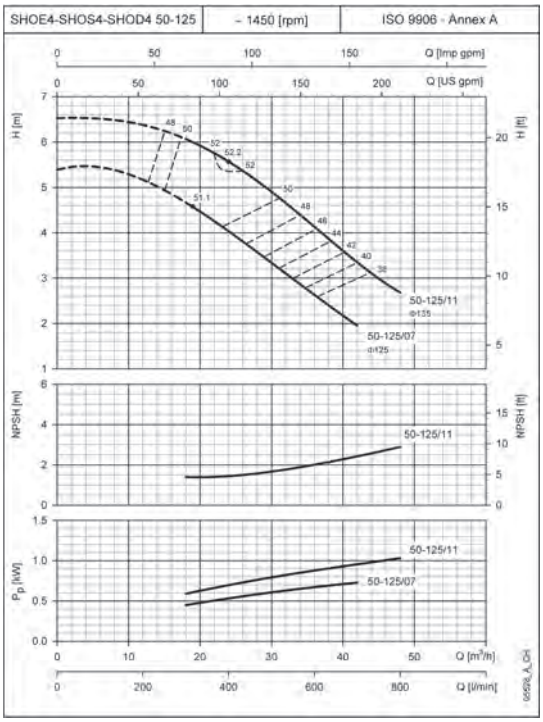


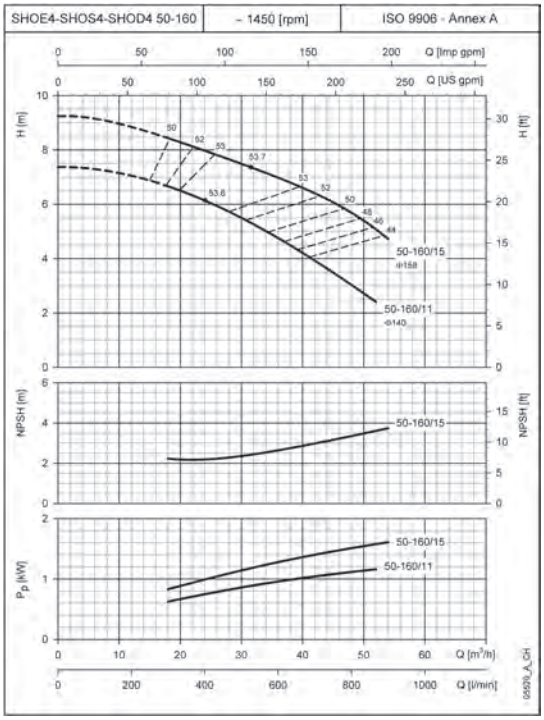
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SHOE4 - SHOS4 - SHOD4 SERIES
Operating characteristics at 50 Hz, 4 poles



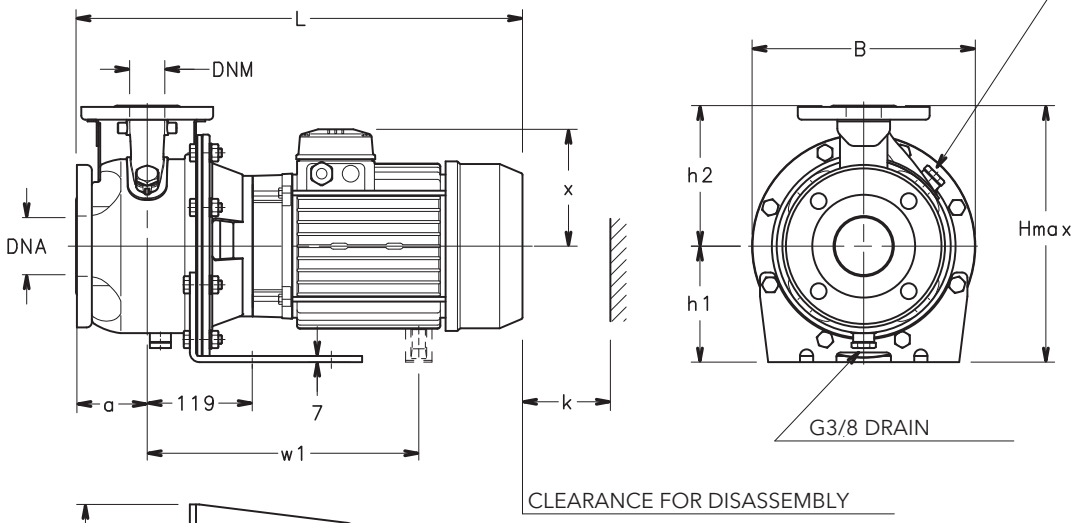


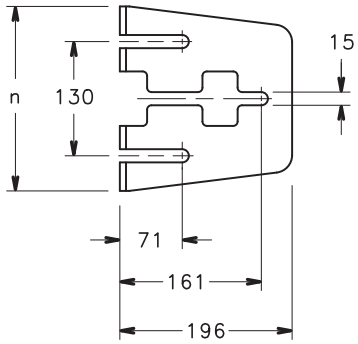


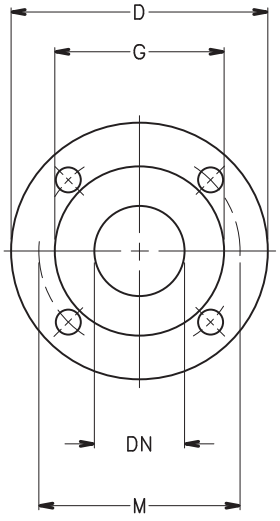


These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

SHOE SERIES
Dimensions and weights at 50 Hz, 2 poles







PUMP FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				Nº	DIA.	
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18

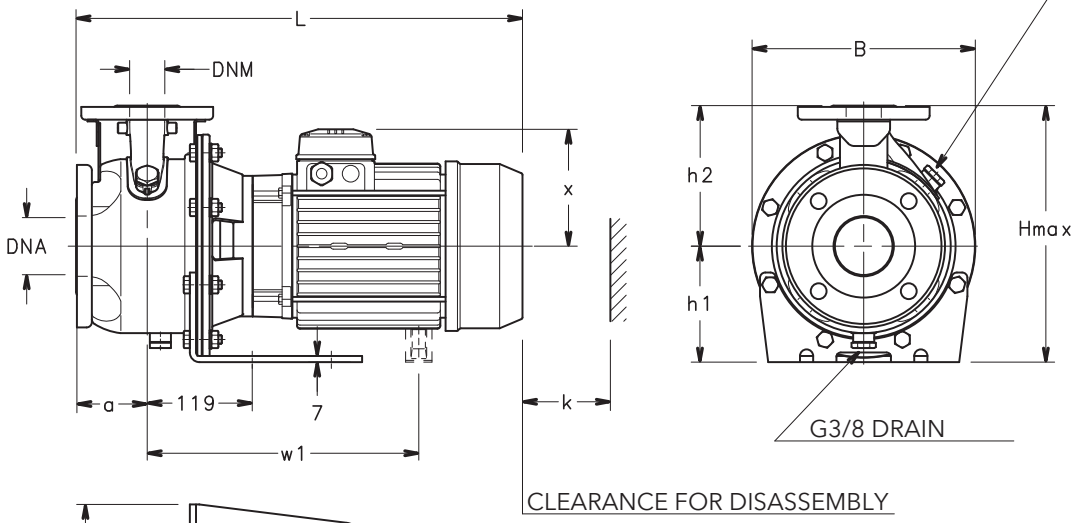
05503_A_DD

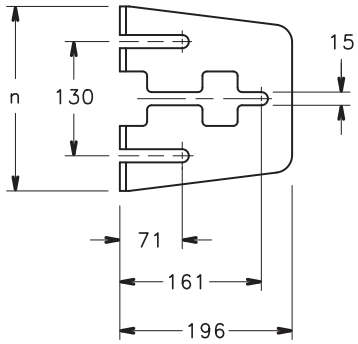
SHOE SERIES
Dimensions and weights at 50 Hz, 2 poles

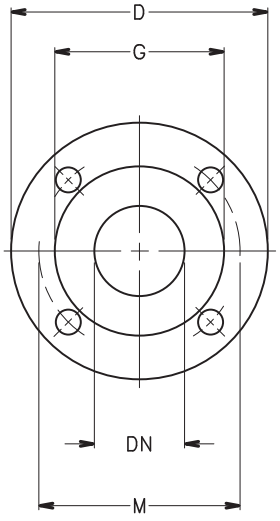
PUMP TYPE	DIMENSIONS (mm)												WEIGHT
	PUMP						SUPPORT		B	H	L	k	
	DNM	DNA	a	h2	w1	x	h1	n		max			kg
SHOE 25-125/11	25	50	80	140	-	129	112	190	219	252	453	98	23
SHOE 25-125/15	25	50	80	140	-	134	112	190	219	252	488	98	26
SHOE 25-125/22	25	50	80	140	-	134	112	190	219	252	488	98	28
SHOE 25-160/30	25	50	80	160	-	134	132	210	254	292	488	98	33
SHOE 25-160/40	25	50	80	160	-	154	132	210	254	292	509	98	40
SHOE 25-160/55	25	50	80	160	-	168	132	210	254	292	543	98	48
SHOE 25-200/30	25	50	80	180	-	134	160	230	284	340	488	98	36
SHOE 25-200/40	25	50	80	180	-	154	160	230	284	340	509	98	42
SHOE 25-200/55	25	50	80	180	-	168	160	230	284	340	543	98	51
SHOE 32-125/11	32	50	80	140	-	129	112	190	219	252	453	98	23
SHOE 32-125/15	32	50	80	140	-	134	112	190	219	252	488	98	26
SHOE 32-125/22	32	50	80	140	-	134	112	190	219	252	488	98	28
SHOE 32-160/30	32	50	80	160	-	134	132	210	254	292	488	98	33
SHOE 32-160/40	32	50	80	160	-	154	132	210	254	292	509	98	40
SHOE 32-160/55	32	50	80	160	-	168	132	210	254	292	543	98	48
SHOE 32-200/30	32	50	80	180	-	134	160	230	284	340	488	98	36
SHOE 32-200/40	32	50	80	180	-	154	160	230	284	340	509	98	42
SHOE 32-200/55	32	50	80	180	-	168	160	230	284	340	543	98	51
SHOE 40-125/15	40	65	80	140	-	134	112	190	219	252	498	100	27
SHOE 40-125/22	40	65	80	140	-	134	112	190	219	252	498	100	29
SHOE 40-125/30	40	65	80	140	-	134	112	190	219	252	498	100	32
SHOE 40-160/40	40	65	80	160	-	154	132	210	254	292	519	100	41
SHOE 40-160/55	40	65	80	160	-	168	132	210	254	300	553	100	49
SHOE 40-160/75	40	65	80	160	-	191	132	210	254	323	567	100	64
SHOE 50-125/55	50	65	100	160	-	168	132	210	254	300	573	104	49
SHOE 50-125/75	50	65	100	160	-	191	132	210	254	323	587	104	65
SHOE 50-160/92	50	65	100	180	363	191	160	210	254	351	625	104	60
SHOE 50-160/110	50	65	100	180	363	191	160	210	254	351	625	104	63

shoe-2p50-en_c_td

SHOE4 SERIES
Dimensions and weights at 50 Hz, 4 poles







PUMP FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				Nº	DIA.	
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18

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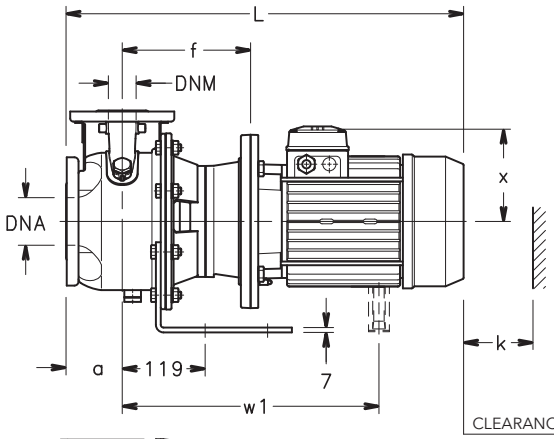
SHOE4 SERIES
Dimensions and weights at 50 Hz, 4 poles

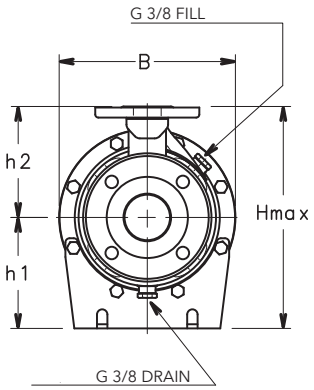
PUMP TYPE	DIMENSIONS (mm)											WEIGHT
	PUMP							B	H	L	k	
	DNM	DNA	a	h2	x	h1	n		max			kg
SHOE4 25-125/03	25	50	80	140	121	112	190	219	252	421	98	19
SHOE4 25-160/03	25	50	80	160	121	132	210	254	292	421	98	23
SHOE4 25-160/05	25	50	80	160	129	132	210	254	292	453	98	25
SHOE4 25-160/07	25	50	80	160	128	132	210	254	292	421	98	27
SHOE4 25-200/07	25	50	80	180	128	160	230	284	340	421	98	30
SHOE4 32-125/03	32	50	80	140	121	112	190	219	252	421	98	19
SHOE4 32-160/03	32	50	80	160	121	132	210	254	292	421	98	23
SHOE4 32-160/05	32	50	80	160	129	132	210	254	292	453	98	25
SHOE4 32-160/07	32	50	80	160	128	132	210	354	292	421	98	27
SHOE4 32-200/07	32	50	80	180	128	160	230	284	340	421	98	30
SHOE4 40-125/03	40	65	80	140	121	112	190	219	252	431	100	21
SHOE4 40-160/05	40	65	80	160	129	132	210	254	292	463	100	26
SHOE4 40-160/07	40	65	80	160	128	132	210	254	292	431	100	27
SHOE4 40-160/11	40	65	80	160	134	132	210	254	292	498	100	31
SHOE4 50-125/07	50	65	100	160	128	132	210	254	292	451	104	28
SHOE4 50-125/11	50	65	100	160	134	132	210	254	292	518	104	34
SHOE4 50-160/11	50	65	100	180	134	160	210	254	340	518	104	35
SHOE4 50-160/15	50	65	100	180	134	160	210	254	340	518	104	38

shoe4-4p50-en_c_td

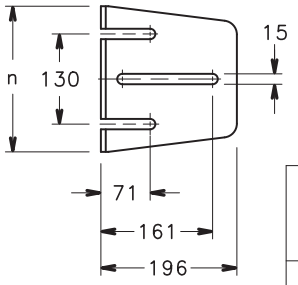


SHOS SERIES
Dimensions and weights at 50 Hz, 2 poles

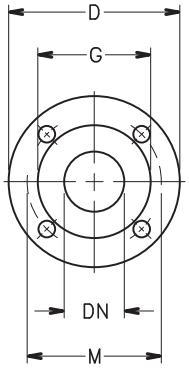




CLEARANCE FOR DISASSEMBLY

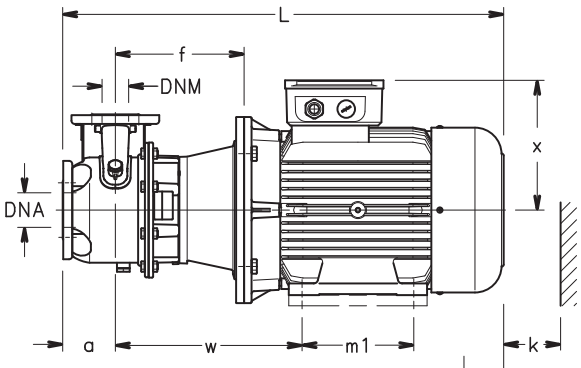


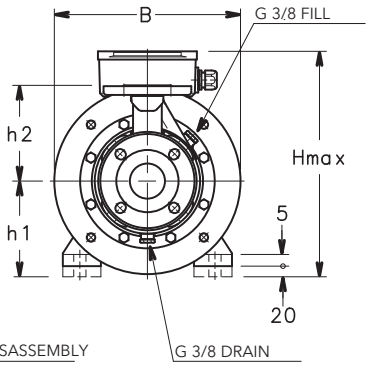
SHOS WITH PUMP SUPPORT FOOT
MOTORS UP TO 7,5 kW



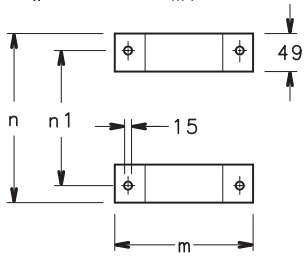
PUMP FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				Nº	DIA.	
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18





CLEARANCE FOR DISASSEMBLY



SHOS WITH SUPPORT UNDER THE MOTOR
11 kW MOTORS

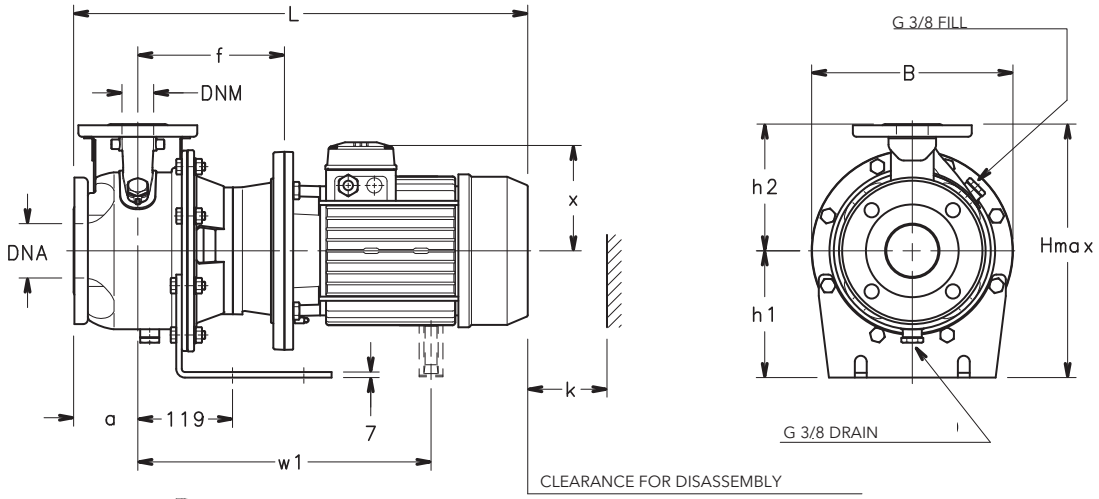
05553_B_DD

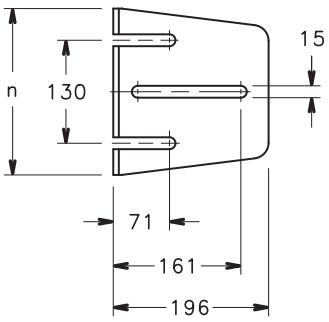
SHOS SERIES
Dimensions and weights at 50 Hz, 2 poles

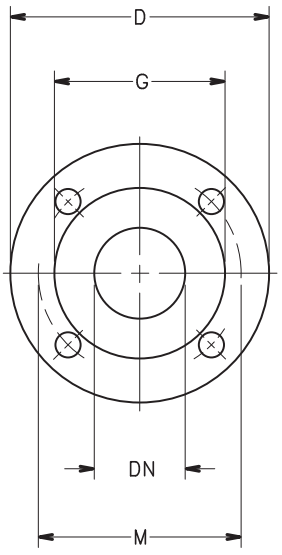
PUMP TYPE	DIMENSIONS (mm)																	WEIGHT
	PUMP								SUPPORT					B	H	L	k	
	DNM	DNA	a	f	h2	w	w1	x	h1	m	m1	n	n1		max			kg
SHOS 25-125/11	25	50	80	165	140	-	-	129	112	-	-	190	-	219	252	508	98	27
SHOS 25-125/15	25	50	80	165	140	-	-	134	112	-	-	190	-	219	252	543	98	31
SHOS 25-125/22	25	50	80	165	140	-	-	134	112	-	-	190	-	219	252	543	98	33
SHOS 25-160/30	25	50	80	175	160	-	-	134	160	-	-	210	-	254	320	553	98	42
SHOS 25-160/40	25	50	80	175	160	-	-	154	160	-	-	210	-	254	320	574	98	47
SHOS 25-160/55	25	50	80	202	160	-	409	168	160	-	-	210	-	254	320	657	98	60
SHOS 25-200/30	25	50	80	175	180	-	-	134	160	-	-	230	-	284	340	553	98	44
SHOS 25-200/40	25	50	80	175	180	-	-	154	160	-	-	230	-	284	340	574	98	50
SHOS 25-200/55	25	50	80	202	180	-	409	168	160	-	-	230	-	284	340	657	98	63
SHOS 32-125/11	32	50	80	165	140	-	-	129	112	-	-	190	-	219	252	508	98	27
SHOS 32-125/15	32	50	80	165	140	-	-	134	112	-	-	190	-	219	252	543	98	31
SHOS 32-125/22	32	50	80	165	140	-	-	134	112	-	-	190	-	219	252	543	98	33
SHOS 32-160/30	32	50	80	175	160	-	-	134	160	-	-	210	-	254	320	553	98	42
SHOS 32-160/40	32	50	80	175	160	-	-	154	160	-	-	210	-	254	320	574	98	47
SHOS 32-160/55	32	50	80	202	160	-	409	168	160	-	-	210	-	254	320	657	98	60
SHOS 32-200/30	32	50	80	175	180	-	-	134	160	-	-	230	-	284	340	553	98	44
SHOS 32-200/40	32	50	80	175	180	-	-	154	160	-	-	230	-	284	340	574	98	50
SHOS 32-200/55	32	50	80	202	180	-	409	168	160	-	-	230	-	284	340	657	98	63
SHOS 40-125/15	40	65	80	175	140	-	-	134	112	-	-	190	-	219	252	553	100	32
SHOS 40-125/22	40	65	80	175	140	-	-	134	112	-	-	190	-	219	252	553	100	34
SHOS 40-125/30	40	65	80	185	140	-	-	134	160	-	-	190	-	219	300	563	100	40
SHOS 40-160/40	40	65	80	185	160	-	-	154	160	-	-	210	-	254	320	584	100	48
SHOS 40-160/55	40	65	80	212	160	-	419	168	160	-	-	210	-	254	328	667	100	61
SHOS 40-160/75	40	65	80	212	160	-	417	191	160	-	-	210	-	254	351	659	100	79
SHOS 50-125/55	50	65	100	212	160	-	419	168	160	-	-	210	-	254	328	687	104	61
SHOS 50-125/75	50	65	100	212	160	-	417	191	160	-	-	210	-	254	351	679	104	79
SHOS 50-160/110A	50	65	100	242	180	350	-	240	180	304	210	304	254	350	420	836	104	117
SHOS 50-160/110	50	65	100	242	180	350	-	240	180	304	210	304	254	350	420	836	104	117

shos-2p50-en_c_td

SHOS4 SERIES
Dimensions and weights at 50 Hz, 4 poles







PUMP FLANGES

DN	D	M	G	HOLES		MAX. THICKNESS
				Nº	DIA.	
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18

05554_A_DD

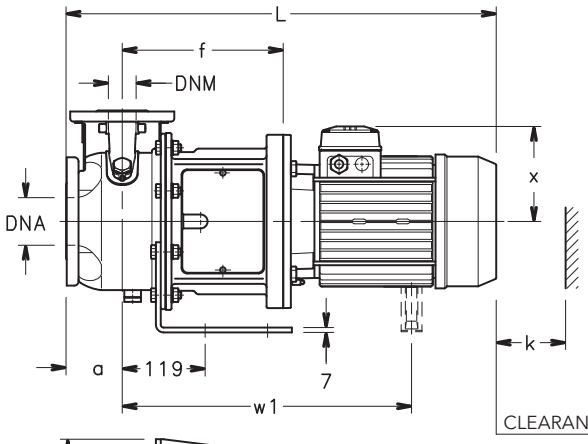
SHOS4 SERIES
Dimensions and weights at 50 Hz, 4 poles

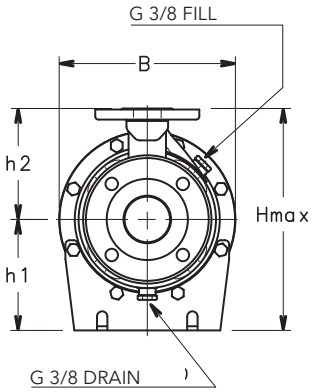
PUMP TYPE	DIMENSIONS (mm)												WEIGHT
	PUMP						SUPPORT		B	H	L	k	
	DNM	DNA	a	f	h2	x	h1	n		max			kg
SHOS4 25-125/03	25	50	80	165	140	129	112	190	219	252	508	98	24
SHOS4 25-160/03	25	50	80	165	160	129	132	210	254	292	508	98	27
SHOS4 25-160/05	25	50	80	165	160	129	132	210	254	292	508	98	27
SHOS4 25-160/07	25	50	80	165	160	128	132	210	254	292	476	98	29
SHOS4 25-200/07	25	50	80	165	180	128	160	230	284	340	476	98	33
SHOS4 32-125/03	32	50	80	165	140	129	112	190	219	252	508	98	24
SHOS4 32-160/03	32	50	80	165	160	129	132	210	254	292	508	98	27
SHOS4 32-160/05	32	50	80	165	160	129	132	210	254	292	508	98	27
SHOS4 32-160/07	32	50	80	165	160	128	132	210	254	292	476	98	29
SHOS4 32-200/07	32	50	80	165	180	128	160	230	284	340	476	98	33
SHOS4 40-125/03	40	65	80	175	140	129	112	190	219	252	518	100	25
SHOS4 40-160/05	40	65	80	175	160	129	132	210	254	292	518	100	29
SHOS4 40-160/07	40	65	80	175	160	128	132	210	254	292	486	100	31
SHOS4 40-160/11	40	65	80	175	160	134	132	210	254	292	553	100	37
SHOS4 50-125/07	50	65	100	175	160	128	132	210	254	292	506	104	31
SHOS4 50-125/11	50	65	100	175	160	134	132	210	254	292	573	104	38
SHOS4 50-160/11	50	65	100	175	180	134	160	230	254	340	573	104	39
SHOS4 50-160/15	50	65	100	175	180	134	160	230	254	340	573	104	41

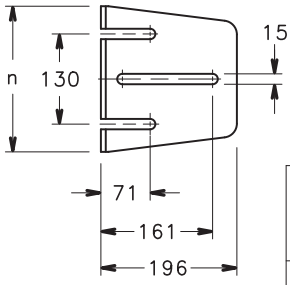
shos4-4p50-en_c_td

Black and white technical books available
see www.lowara.it

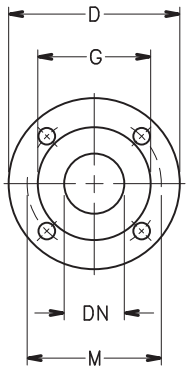
SHOD SERIES
Dimensions and weights at 50 Hz, 2 poles





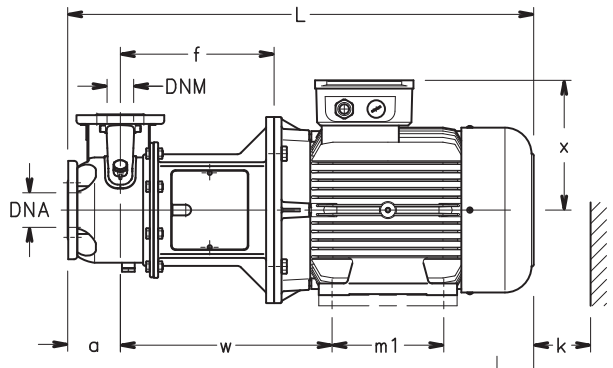


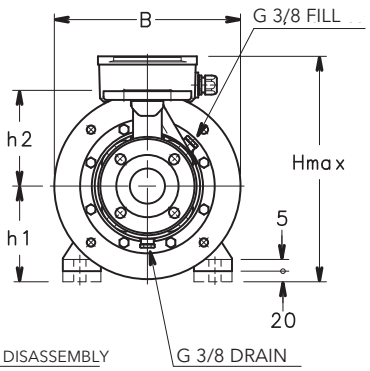
SHOD WITH PUMP SUPPORT FOOT
MOTORS UP TO 7,5 kW

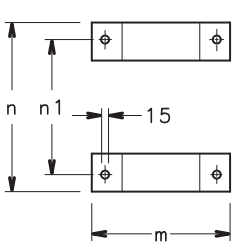


PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18







SHOD WITH SUPPORT
UNDER THE MOTOR
11 kW MOTORS

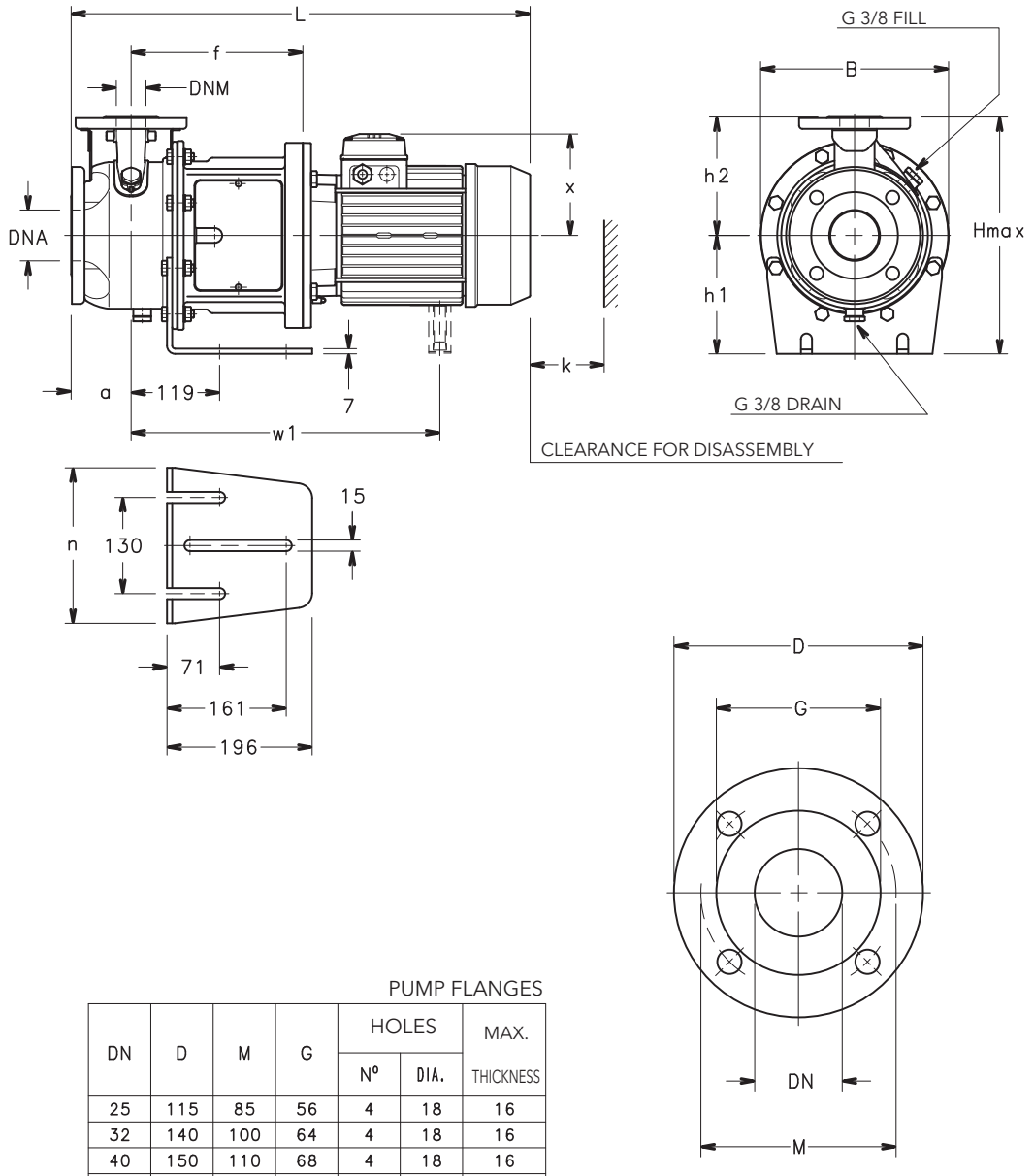
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SHOD SERIES
Dimensions and weights at 50 Hz, 2 poles

PUMP TYPE	DIMENSIONS (mm)																	WEIGHT
	PUMP								SUPPORT					B	H	L	k	
	DNM	DNA	a	f	h2	w	w1	x	h1	m	m1	n	n1		max			kg
SHOD 25-125/11	25	50	80	212	140	-	-	129	112	-	-	190	-	219	252	555	98	29
SHOD 25-125/15	25	50	80	212	140	-	-	134	112	-	-	190	-	219	252	590	98	33
SHOD 25-125/22	25	50	80	212	140	-	-	134	112	-	-	190	-	219	252	590	98	35
SHOD 25-160/30	25	50	80	222	160	-	-	134	160	-	-	210	-	254	320	600	98	44
SHOD 25-160/40	25	50	80	222	160	-	-	154	160	-	-	210	-	254	320	621	98	49
SHOD 25-160/55	25	50	80	249	160	-	456	168	160	-	-	210	-	254	320	704	98	61
SHOD 25-200/30	25	50	80	222	180	-	-	134	160	-	-	230	-	284	340	600	98	46
SHOD 25-200/40	25	50	80	222	180	-	-	154	160	-	-	230	-	284	340	621	98	52
SHOD 25-200/55	25	50	80	249	180	-	456	168	160	-	-	230	-	284	340	704	98	65
SHOD 32-125/11	32	50	80	212	140	-	-	129	112	-	-	190	-	219	252	555	98	29
SHOD 32-125/15	32	50	80	212	140	-	-	134	112	-	-	190	-	219	252	590	98	33
SHOD 32-125/22	32	50	80	212	140	-	-	134	112	-	-	190	-	219	252	590	98	35
SHOD 32-160/30	32	50	80	222	160	-	-	134	160	-	-	210	-	254	320	600	98	44
SHOD 32-160/40	32	50	80	222	160	-	-	154	160	-	-	210	-	254	320	621	98	49
SHOD 32-160/55	32	50	80	249	160	-	456	168	160	-	-	210	-	254	320	704	98	61
SHOD 32-200/30	32	50	80	222	180	-	-	134	160	-	-	230	-	284	340	600	98	46
SHOD 32-200/40	32	50	80	222	180	-	-	154	160	-	-	230	-	284	340	621	98	52
SHOD 32-200/55	32	50	80	249	180	-	456	168	160	-	-	230	-	284	340	704	98	65
SHOD 40-125/15	40	65	80	222	140	-	-	134	112	-	-	190	-	219	252	600	100	33
SHOD 40-125/22	40	65	80	222	140	-	-	134	112	-	-	190	-	219	252	600	100	35
SHOD 40-125/30	40	65	80	232	140	-	-	134	160	-	-	190	-	219	300	610	100	41
SHOD 40-160/40	40	65	80	232	160	-	-	154	160	-	-	210	-	254	320	631	100	51
SHOD 40-160/55	40	65	80	259	160	-	466	168	160	-	-	210	-	254	328	714	100	65
SHOD 40-160/75	40	65	80	259	160	-	464	191	160	-	-	210	-	254	351	706	100	82
SHOD 50-125/55	50	65	100	259	160	-	466	168	160	-	-	210	-	254	328	734	104	65
SHOD 50-125/75	50	65	100	259	160	-	464	191	160	-	-	210	-	254	351	726	104	83
SHOD 50-160/110A	50	65	100	289	180	397	-	240	180	304	210	304	254	350	420	883	104	120
SHOD 50-160/110	50	65	100	289	180	397	-	240	180	304	210	304	254	350	420	883	104	120

shod-2p50-en_c_td

SHOD4 SERIES
Dimensions and weights at 50 Hz, 4 poles



PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18

SHOD4 SERIES
Dimensions and weights at 50 Hz, 4 poles

PUMP TYPE	DIMENSIONS (mm)												WEIGHT
	PUMP						SUPPORT		B	H	L	k	
	DNM	DNA	a	f	h2	x	h1	n		max			kg
SHOD4 25-125/03	25	50	80	212	140	129	112	190	219	252	555	98	26
SHOD4 25-160/03	25	50	80	212	160	129	132	210	254	292	555	98	29
SHOD4 25-160/05	25	50	80	212	160	129	132	210	254	292	555	98	29
SHOD4 25-160/07	25	50	80	212	160	128	132	210	254	292	523	98	31
SHOD4 25-200/07	25	50	80	212	180	128	160	230	284	340	523	98	34
SHOD4 32-125/03	32	50	80	212	140	129	112	190	219	252	555	98	26
SHOD4 32-160/03	32	50	80	212	160	129	132	210	254	292	555	98	29
SHOD4 32-160/05	32	50	80	212	160	129	132	210	254	292	555	98	29
SHOD4 32-160/07	32	50	80	212	160	128	132	210	254	292	523	98	31
SHOD4 32-200/07	32	50	80	212	180	128	160	230	284	340	523	98	34
SHOD4 40-125/03	40	65	80	222	140	129	112	190	219	252	565	100	26
SHOD4 40-160/05	40	65	80	222	160	129	132	210	254	292	565	100	29
SHOD4 40-160/07	40	65	80	222	160	128	132	210	254	292	533	100	31
SHOD4 40-160/11	40	65	80	222	160	134	132	210	254	292	600	100	38
SHOD4 50-125/07	50	65	100	222	160	128	132	210	254	292	553	104	32
SHOD4 50-125/11	50	65	100	222	160	134	132	210	254	292	620	104	38
SHOD4 50-160/11	50	65	100	222	180	134	160	230	254	340	620	104	39
SHOD4 50-160/15	50	65	100	222	180	134	160	230	254	340	620	104	41

shod4-4p50-en_c_td



SP Series

Close-coupled self-priming peripheral pumps with side channel and star impeller. Designed to remain primed even in the presence of waterdissolved gases or when the suction line is not filled with liquid.

The nickel-plated brass impeller prevents jamming due to oxidation.

Specifications

Delivery: up to 2.75 m^3/h
Head: up to 50 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.55 kW to 0.75 kW
Maximum operating pressure: 8 bar
Temperature of pumped liquid: -10°C to +40°C
Maximum ambient temperature: 40°C
Insulation class: F
Protection: IP55

Materials

Pump body: Cast iron
Motor/pump support: Cast iron
Impeller: Nickel-plated brass
Front flange: Brass
Rear diffuser plate: Brass
Mechanical seal: Ceramic/Carbon/NBR
Fill plug: Brass
Elastomers: NBR

Applications

Water distribution

Washing

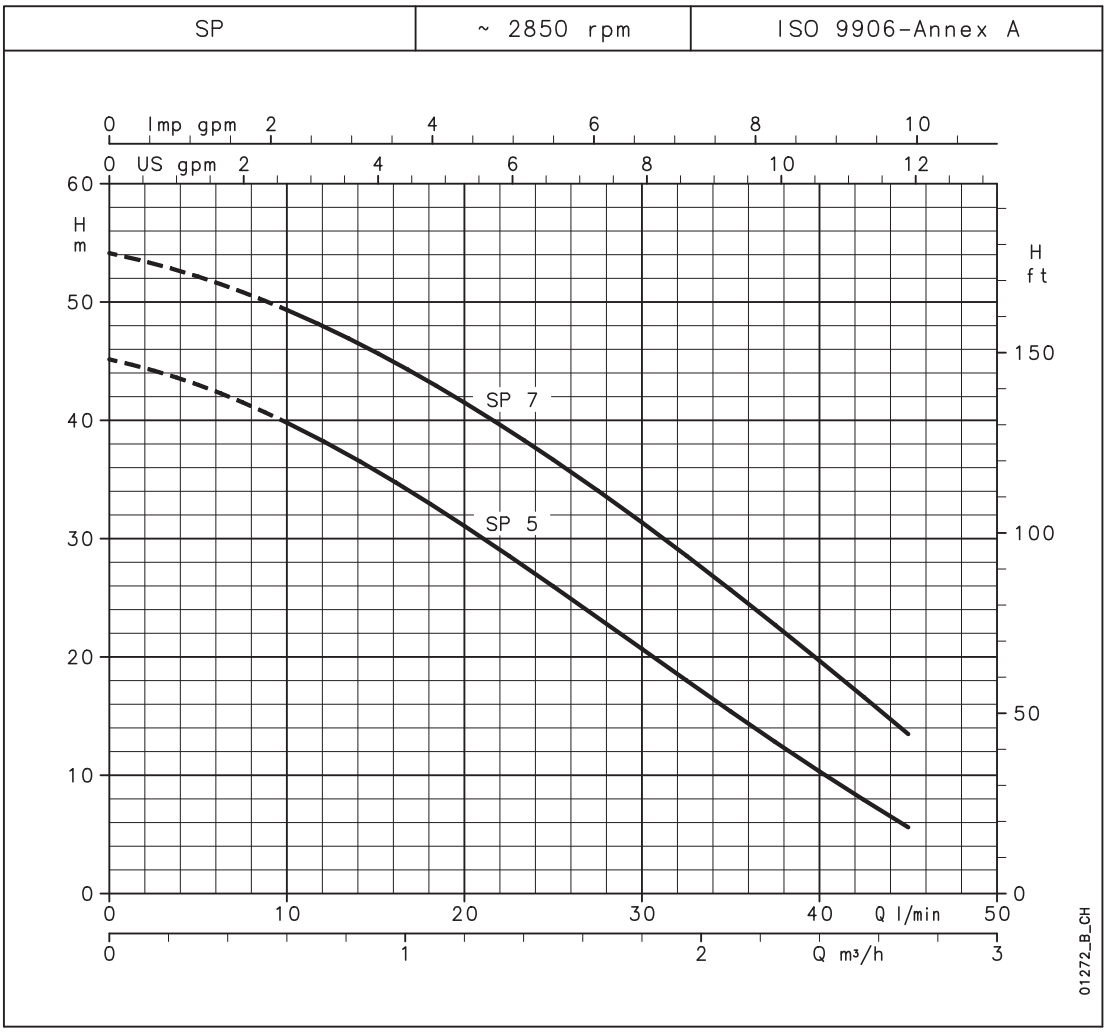
Pressure boosting

Irrigation



For a complete list of technical information, consult www.lowara.com

SP SERIES
Operating characteristics at 50 Hz



Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY							
			l/min	0	10	20	25	30	35	40	45
			m^3/h	0	0,6	1,2	1,5	1,8	2,1	2,4	2,7
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)								
SP5(T)	0,55	0,75	45,2	39,8	31,1	26,0	20,7	15,4	10,3	5,7
SP7(T)	0,75	1	54,1	49,3	41,5	36,7	31,4	25,7	19,7	13,5

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

sp-2p50_a_th

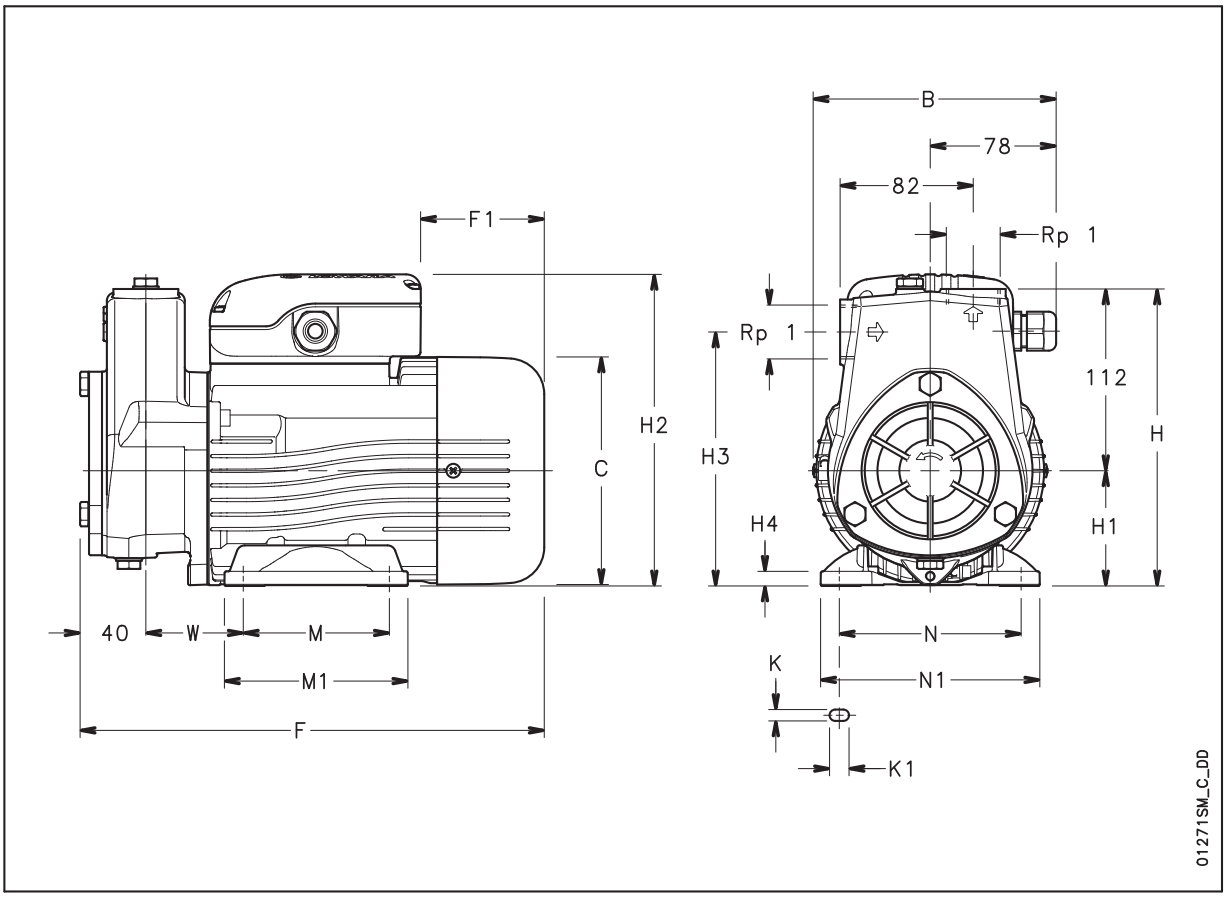
Electrical data

TYPE 1 ~	TYPE	POWER* kW	CURRENT* 220-240 V A	μF / 450 V	TYPE 3 ~	TYPE	POWER* kW	CURRENT* 220-240 V A	CURRENT* 380-415 V A
SP5	SM71SP/1055	0,87	4,21	16	SP5T	SM71SP/305	0,78	2,67	1,54
SP7	SM71SP/1075	1,00	4,60	20	SP7T	SM80SP/307HE	0,95	3,04	1,76

*Maximum value in specified range

sp-2p50-en_b_te

SP SERIES
Dimensions and weights



PUMP TYPE	DIMENSIONS (mm)																WEIGHT
	B	C	F	F1	H	H1	H2	H3	H4	M	M1	N	N1	K	K1	W	kg
SP5	150	140	286	76	183	71	192	156	9	90	113	112	135	7	12	60	11
SP7	150	140	286	76	183	71	192	156	9	90	113	112	135	7	12	60	12
SP5T	150	140	286	76	183	71	192	156	9	90	113	112	135	7	12	60	11
SP7T	156	155	325	113	192	80	209	165	10	100	124	125	153	9	12	72	15

sp-2p50-en_b_td

BG Series

Close-coupled self-priming centrifugal pumps with built-in ejector system, designed to remain primed even in the presence of water-dissolved gases. The extensive use of pressed stainless steel ensures a high-performance, durable and lightweight pump.

Available in the "Garden" version with handle and terminal box with builtin switch.

Specifications

Delivery: up to 4.2 m^3/h
Head: up to 53 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.37 kW to 1.1 kW
Maximum operating pressure: 8 bar
Maximum total lift: 8 m
Maximum ambient temperature: 40°C
Temperature of pumped liquid: -10°C to +40°C
Insulation class: F
Protection: IP55

Materials

Pump body: Stainless steel
Impeller: Stainless steel
Diffuser: Technopolymer
Ejector: Technopolymer
Seal housing: Stainless steel
Mechanical seal: Ceramic/Carbon/EPDM
Fill and drain plugs: Nickel-plated brass
Elastomers: EPDM

Applications

Water distribution

Pressure boosting

Irrigation

Washing

Rain water collection

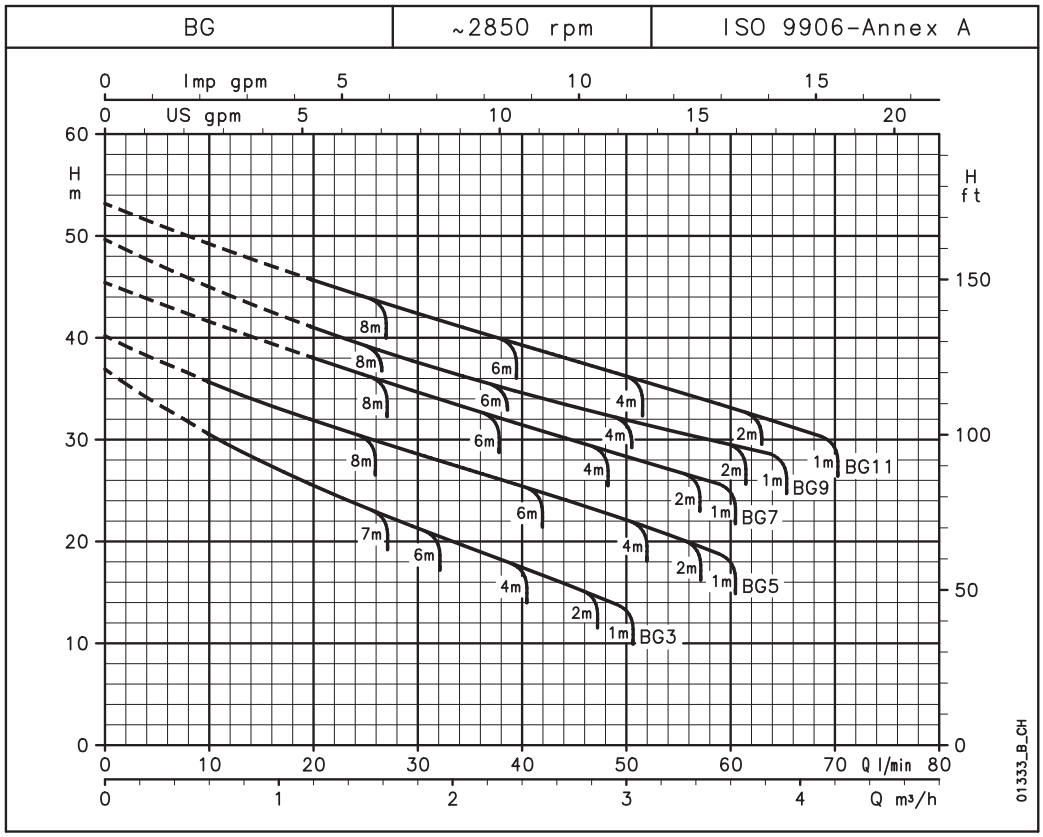
Swimming pools

Fountains



For a complete list of technical information, consult www.lowara.com

BG SERIES
Operating characteristics at 50 Hz



Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY								
			l/min 0	10	20	30	40	50	60	65	70
			m³/h 0	0,6	1,2	1,8	2,4	3	3,6	3,9	4,2
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)								
BG(M)3	0,37	0,5	36,9	30,6	25,6	21,5	17,7	13,8			
BG(M)5	0,55	0,75	40,2	35,7	32,0	28,8	25,7	22,4	18,8		
BG(M)7	0,75	1	45,4		38,1	34,8	31,7	28,6	25,6		
BG(M)9	0,9	1,2	49,6		41,1	37,7	34,8	32,2	29,8	28,6	
BG(M)11	1,1	1,5	53,2		45,8	42,5	39,5	36,5	33,5	31,9	30,3

Maximum delivery depends on geodetic suction lift with clean 8 m pipe and 1¼" foot valve. bg-2p50_a_th

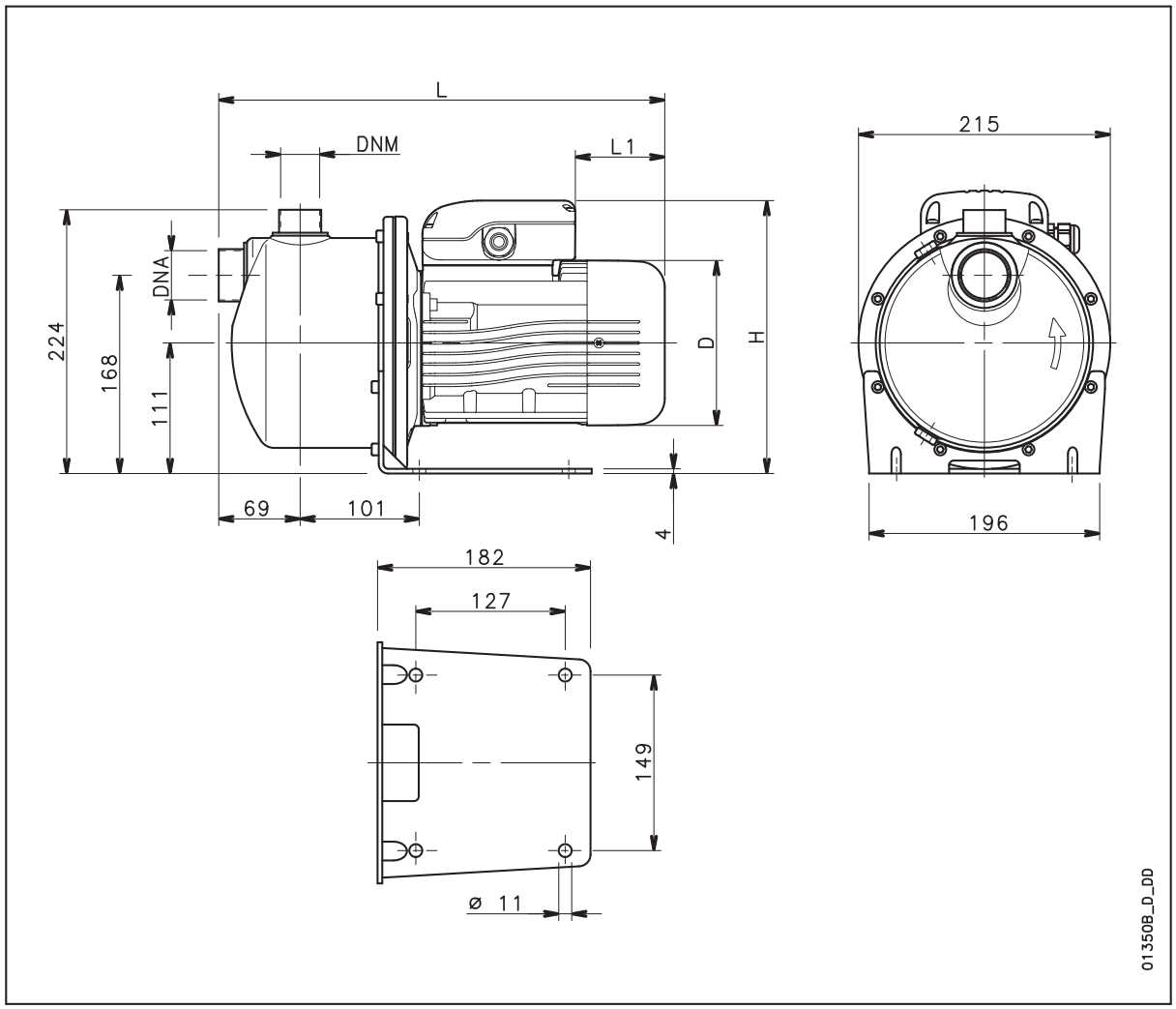
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

Electrical data

PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
BGM3	SM63BG/1045	0,67	2,96	14	BG3	SM63BG/304	0,68	2,56	1,48
BGM5	SM71BG/1055	0,91	4,33	16	BG5	SM71BG/305	0,81	2,74	1,58
BGM7	SM71BG/1075	1,11	5,00	20	BG7	SM80BG/307HE	1,07	3,32	1,92
BGM9	SM71BG/1095	1,24	5,54	25	BG9	SM80BG/311HE	1,15	3,65	2,11
BGM11	SM80BG/1115	1,43	6,47	30	BG11	SM80BG/311HE	1,34	4,12	2,38

*Maximum value in specified range. bg-2p50-en_b_te

BG SERIES
Dimensions and weights



PUMP TYPE	DIMENSIONS (mm)				DNA	DNM	WEIGHT
	D	L	L1	H			kg
BGM3	120	366	62	222	Rp 1¼	Rp 1	10
BGM5	140	380	76	232	Rp 1¼	Rp 1	12
BGM7	140	380	76	232	Rp 1¼	Rp 1	13
BGM9	140	380	31	241	Rp 1¼	Rp 1	13
BGM11	156	425	69	248	Rp 1¼	Rp 1	16
BG3	120	366	62	222	Rp 1¼	Rp 1	10
BG5	140	380	76	232	Rp 1¼	Rp 1	12
BG7	155	425	114	240	Rp 1¼	Rp 1	17
BG9	155	425	114	240	Rp 1¼	Rp 1	19
BG11	155	425	114	240	Rp 1¼	Rp 1	19

bg-2p50-en_c_td

AG-JEC Series

Self-priming pumps for swimming pools with pre-filter.

Specifications

Delivery: up to 30 m^3/h
Head: up to 17 m
Power supply: three-phase and single-phase 50 Hz
Power: 0.3 kW to 1.5 kW
Maximum operating pressure: 2 bar
Temperature of pumped liquid: -10°C to +40°C
Insulation class: F
Protection: IP55

Materials

Pump body: Technopolymer
Pump-motor adapter: Technopolymer
Impeller: Technopolymer
Diffuser: Technopolymer
Mechanical seal: Ceramic/Carbon
Drain cap: Technopolymer
Basket filter: Technopolymer
Elastomers: NBR

Applications

Water distribution

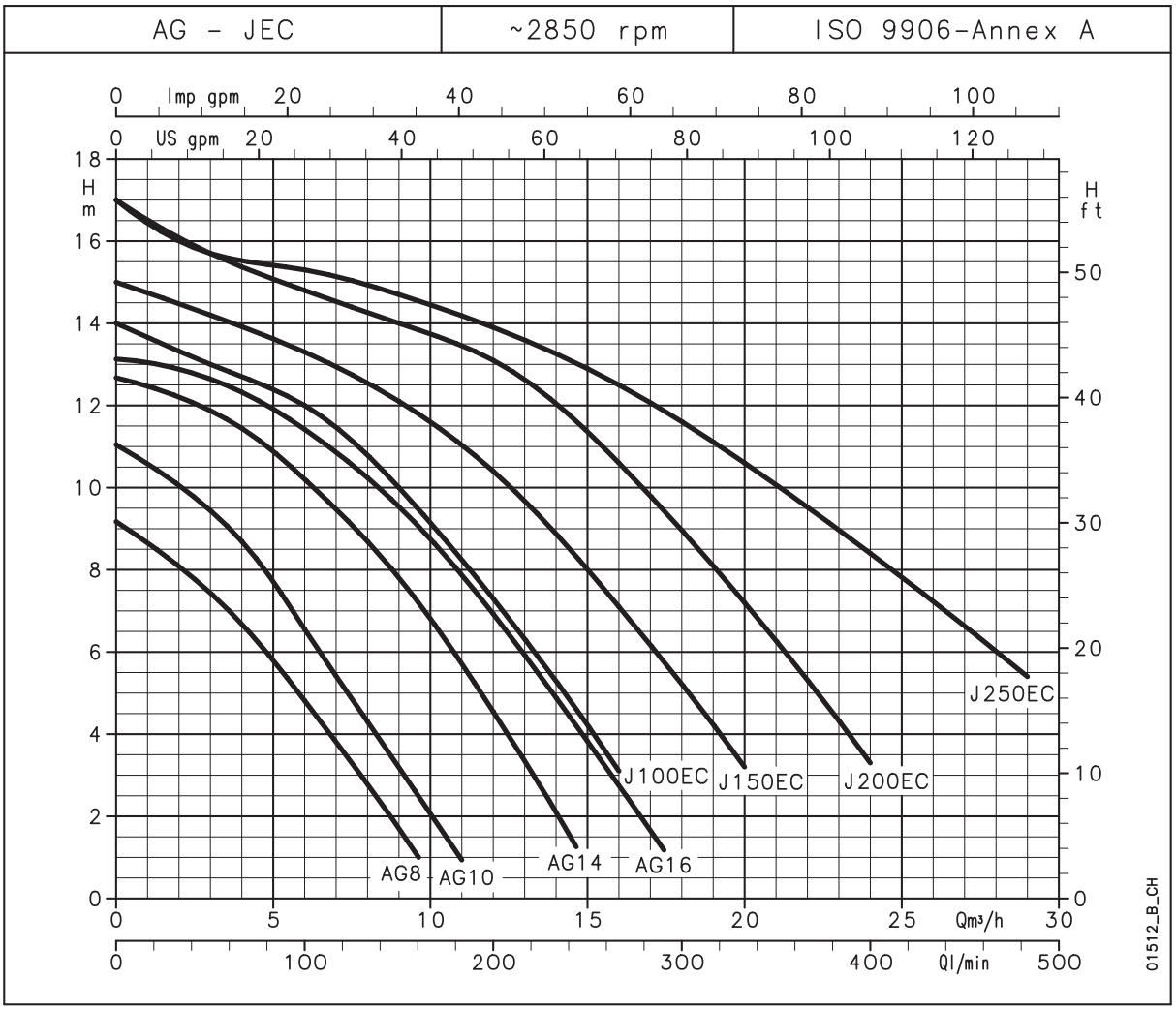
Swimming pools

Fountains and water displays



For a complete list of technical information, consult www.lowara.com

AG-JEC SERIES SINGLE-PHASE
Operating characteristics at 50 Hz

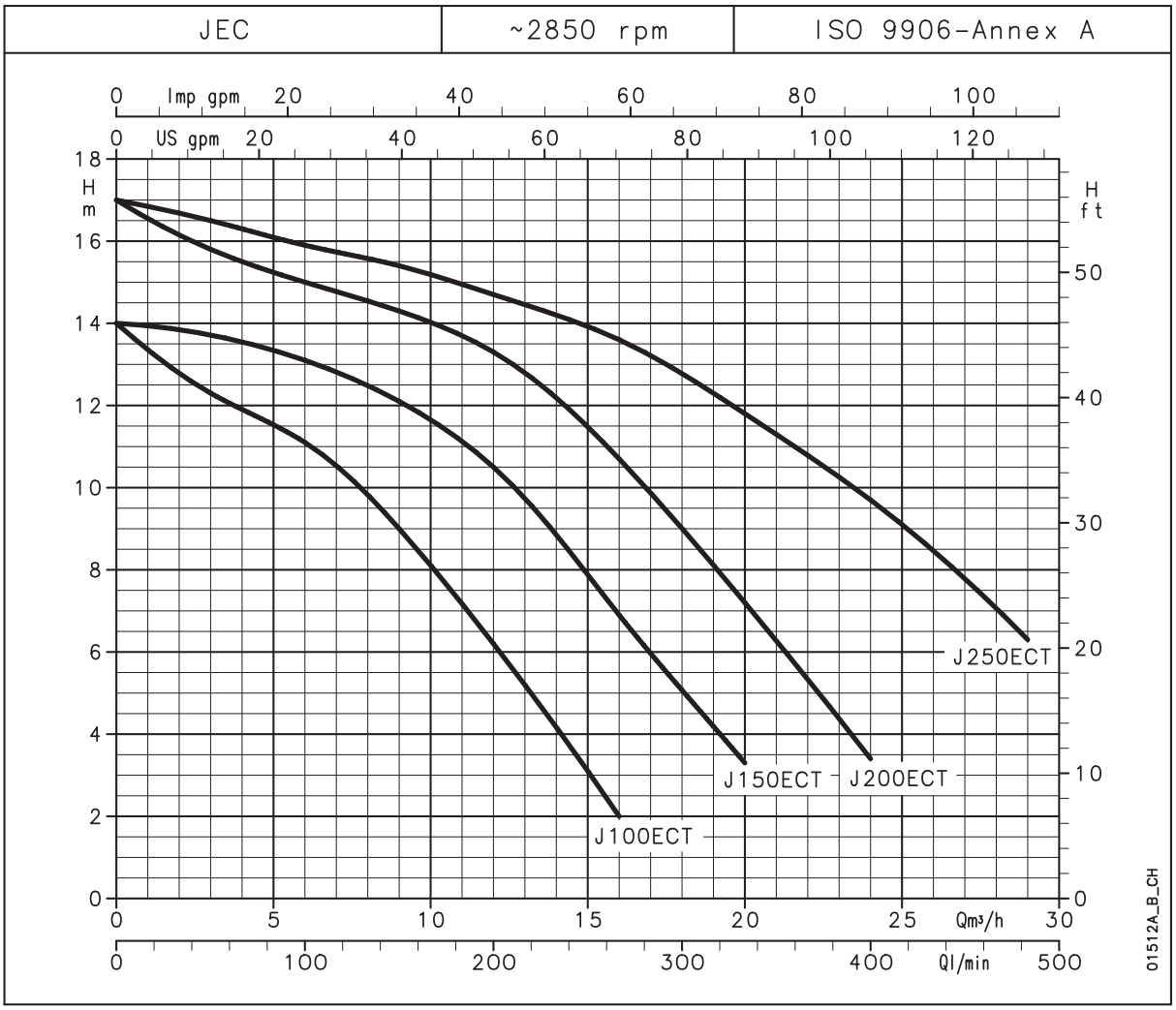


Hydraulic performance table

PUMP TYPE	RATED POWER		RATED CURRENT	CAPACITOR		Q = DELIVERY								
						l/min	0	50	100	150	200	267	333	400	483
						m^3/h	0	3	6	9	12	16	20	24	29
230V 50Hz	kW	HP	A	µF	V	H = TOTAL HEAD IN COLUMN OF WATER (METRES)									
AG8	0,3	0,4	1,45	10	420	9,2	7,5	4,8	1,7						
AG10	0,37	0,5	1,7	10	420	11	9,4	6,6	3,2						
AG14	0,55	0,75	2,8	10	420	12,7	11,9	10,2	7,8	4,5					
AG16	0,67	0,92	3,0	10	420	13,1	12,6	11,4	9,5	7	2,8				
J100EC	0,55	0,75	3,2	12,5	420	14	13,0	12	10	7,3	3,1				
J150EC	0,75	1	3,5	20	420	15	14,2	13,3	12,1	10,4	7,1	3,2			
J200EC	1,1	1,5	5,7	25	420	17	15,7	14,8	14	13,1	10,6	7,2	3,3		
J250EC	1,5	2	7,5	25	420	17	15,7	15,3	14,7	13,9	12,5	10,6	8,4	5,4	

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JEC SERIES THREE-PHASE
Operating characteristics at 50 Hz

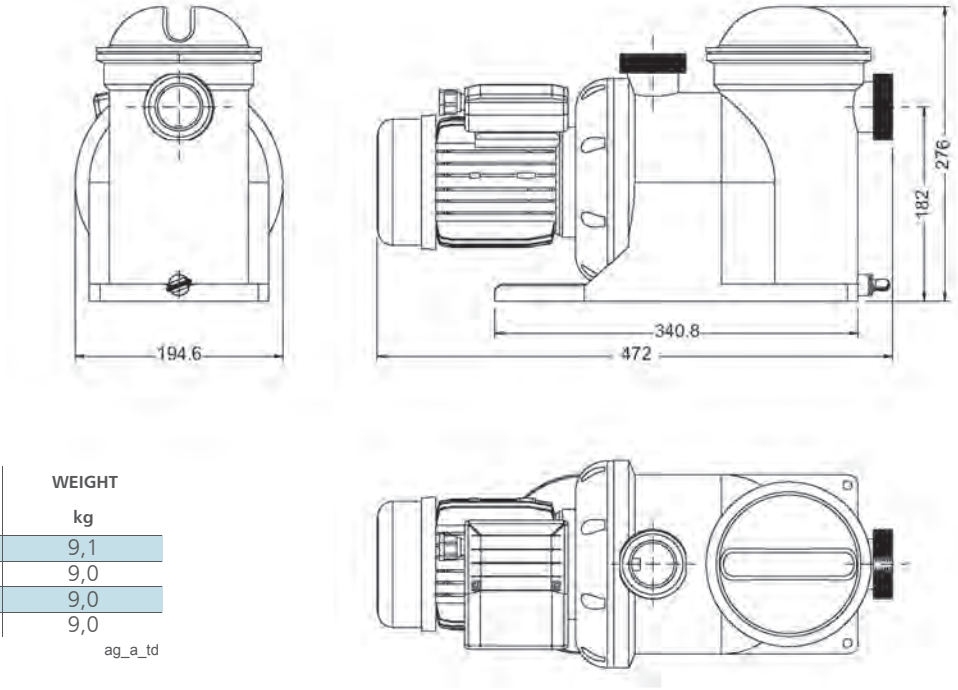


Hydraulic performance table

PUMP TYPE	RATED POWER		RATED CURRENT	Q = DELIVERY								
				l/min	0	50	100	150	200	267	333	400	483
				m^3/h	0	3	6	9	12	16,02	19,98	24	28,98
400V 50Hz	kW	HP	A	H = TOTAL HEAD IN COLUMN OF WATER (METRES)									
J100ECT	0,55	0,75	1,1	14	12,3	11,1	9	6,2	2				
J150ECT	0,75	1	1,8	14	13,5	13,1	12,1	10,5	6,9	3,3			
J200ECT	1,1	1,5	2,4	17	15,8	15	14,3	13,3	10,7	7,2	3,4		
J250ECT	1,5	2	3,4	17	16,5	15,9	15,4	14,7	13,6	11,8	9,7	6,3	

ag-jec-3ph-2p50_a_th

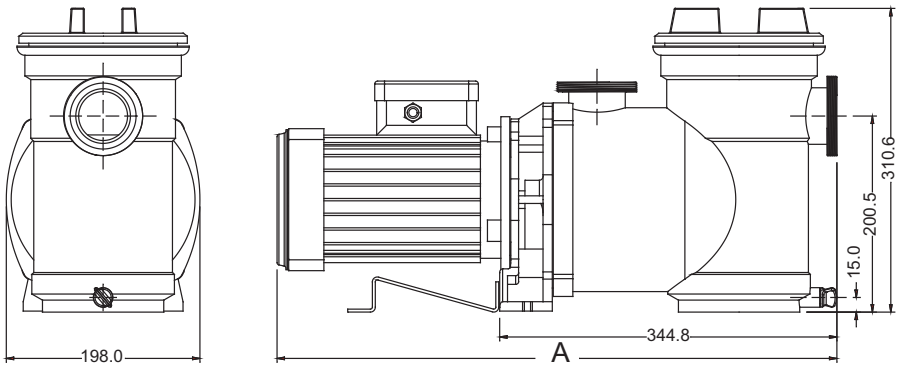
AG SERIES
Dimensions and weights



PUMP TYPE	WEIGHT kg
AG8	9,1
AG10	9,0
AG14	9,0
AG16	9,0

ag_a_td

JEC SERIES
Dimensions and weights



PUMP TYPE	LENGTH A (mm)	WEIGHT kg
J100EC	548	11,8
J150EC	578	10,2
J200EC	578	12,0
J250EC	578	12,5
J100ECT	545	12,0
J150ECT	574	10,2
J200ECT	575	12,5
J250ECT	582	13,0

jec_a_td

P-PAB-PSA Series

Peripheral pumps capable of developing high heads using lowpowered motors.

Some models are available in the PB versions (bronze body for sea water), PK versions (compatible with hot water up to 80°C) and PBK versions (pump body in bronze compatible with hot water up to 80°C).

Specifications

Delivery: up to 3.72 m^3/h
Head: up to 82 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.3 kW to 1.1 kW
Maximum operating pressure: 8 bar (10 bar for the PSA series)
Temperature of pumped liquid:
-10°C to +40°C (P series)
-10°C to +80°C (PSA-PAB-PABLB series)
Maximum ambient temperature: 40°C
Insulation class: F
Protection: IP44 (models P16, P21, PAB, PABLB)
IP55 (models P30, P40, P60, P70 e PSA)

Materials

Pump body: Cast iron (P-PSA series)
Bronze (PB-PAB-PABLB series)
Adapter: Cast iron (P-PSA series)
Bronze (PB-PAB-PABLB series)
Impeller: Bronze
Mechanical seal: Ceramic/Carbon/NBR
Fill plugs: Brass
Elastomers: NBR

Applications

Water distribution

Washing

Boiler

Hot water systems

Pressure boosting

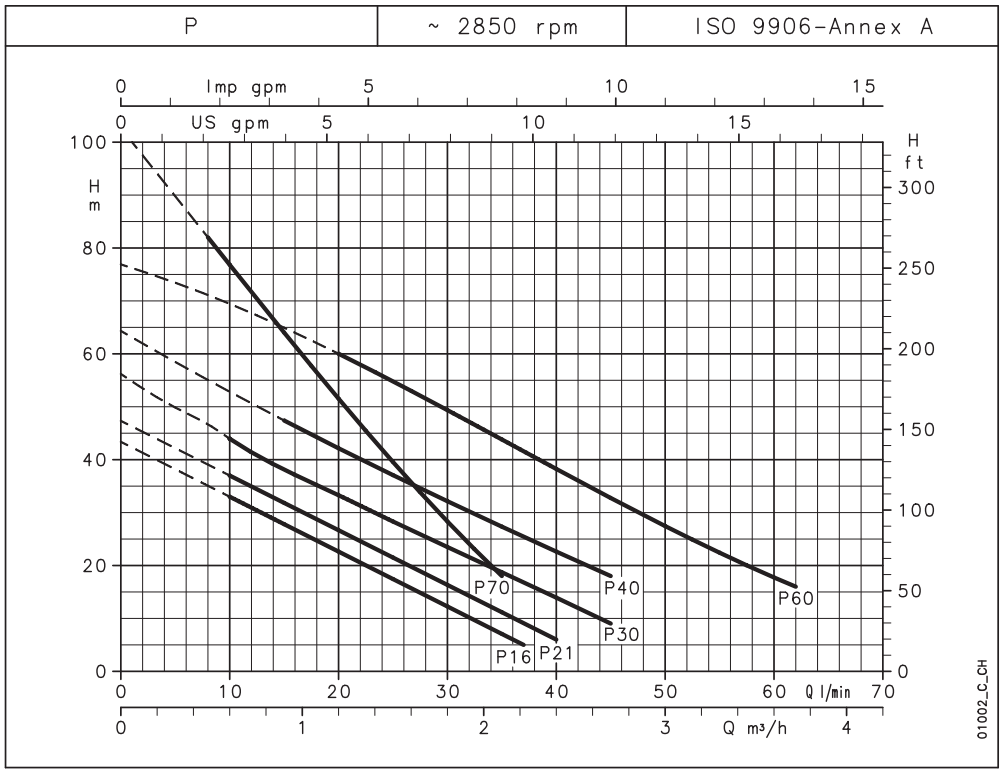
Irrigation

Cooling and chilling



For a complete list of technical information, consult www.lowara.com

P SERIES
Operating characteristics at 50 Hz



Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min	0	8	10	15	20	35	37	40	45	62
			m^3/h	0	0,48	0,60	0,90	1,20	2,10	2,22	2,40	2,70	3,72
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)										
P(M)16	0,3	0,4	43,4		33,0	27,8	22,6	7,1	5,0			
P(M)21	0,37	0,5	47,4		37,0	31,8	26,7	11,2	9,1	6,0		
P(M)30	0,5	0,7	56,2		44,0	38,5	33,3	18,7	16,8	13,9	9,0	
P(M)40	0,6	0,8	64,3			47,4	42,2	27,3	25,4	22,6	18,0	
P(M)60	1,1	1,5	76,9				60,0	43,8	41,6	38,2	32,8	16,0
P(M)70	0,75	1	102,6	82,0	76,8	64,0	51,5	18,0				

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity v = 1 mm²/s.

p-2p50_b_th

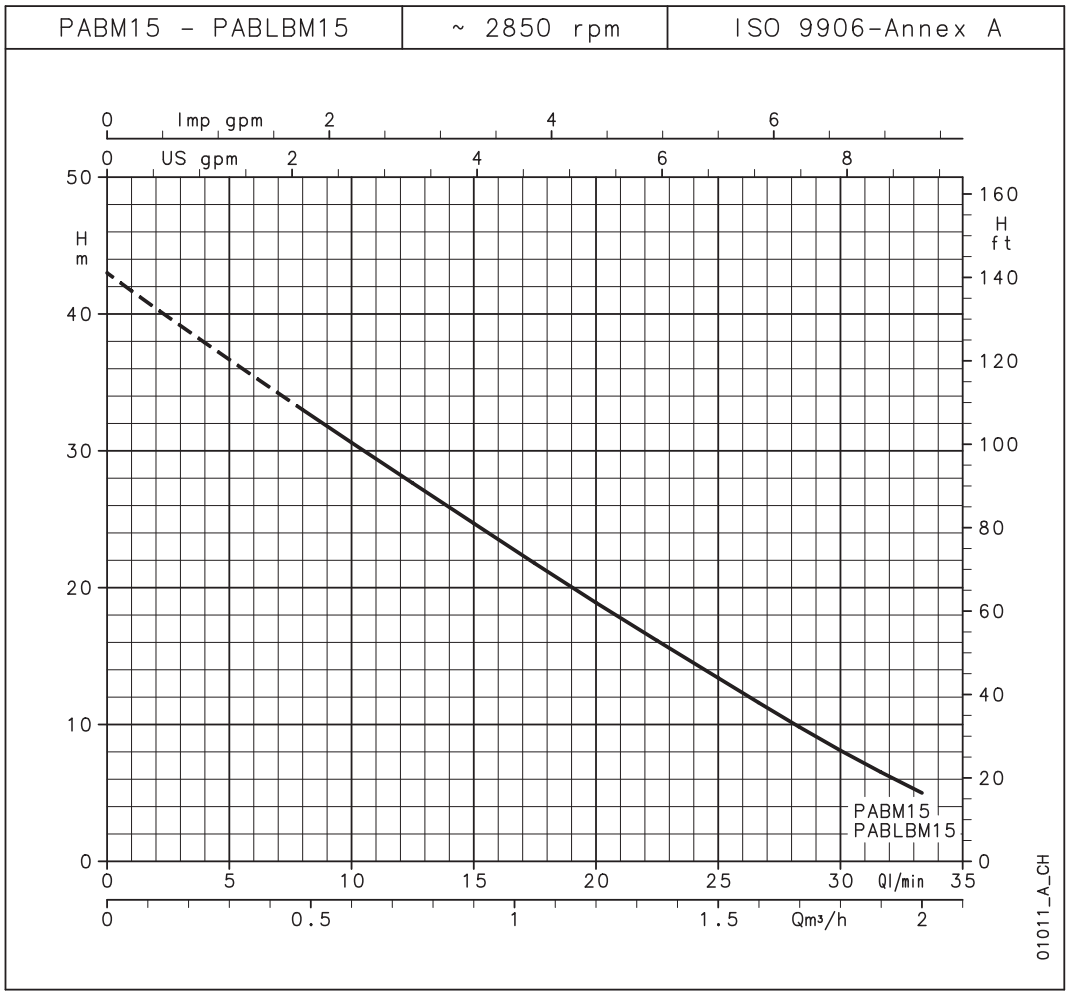
Electrical data

PUMP TYPE 1 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V	PUMP TYPE 3 ~	MOTOR TYPE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
PM16	30M712	0,50	2,2	10	P16	30T712	0,48	1,55	0,9
PM21	37M712	0,58	2,7	14	P21	37T712	0,55	1,9	1,1
PM30	SM71PA/105	0,83	4	16	P30	SM71PA/305	0,72	2,6	1,5
PM40	SM71PA/107	1,08	4,82	20	P40	SM80PA/307HE	1,00	3,15	1,82
PM60	SM80PA/111	1,77	7,95	30	P60	SM80PA/311HE	1,68	4,95	2,86
PM70	SM71PA/109	1,32	5,89	25	P70	SM80PA/311HE	1,24	3,86	2,23

*Maximum value in specified range.

p-2p50-en_c_te

PAB SERIES
Operating characteristics at 50 Hz



Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY							
			l/min	0	8	10	15	20	25	30	33
			m^3/h	0	0,48	0,60	0,90	1,20	1,50	1,80	1,98
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)								
PABM15	0,37	0,5	43,0	33,0	30,6	24,7	18,9	13,4	8,1	5,0
PABLBM15	0,37	0,5	43,0	33,0	30,6	24,7	18,9	13,4	8,1	5,0

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

pab-2p50_a_th

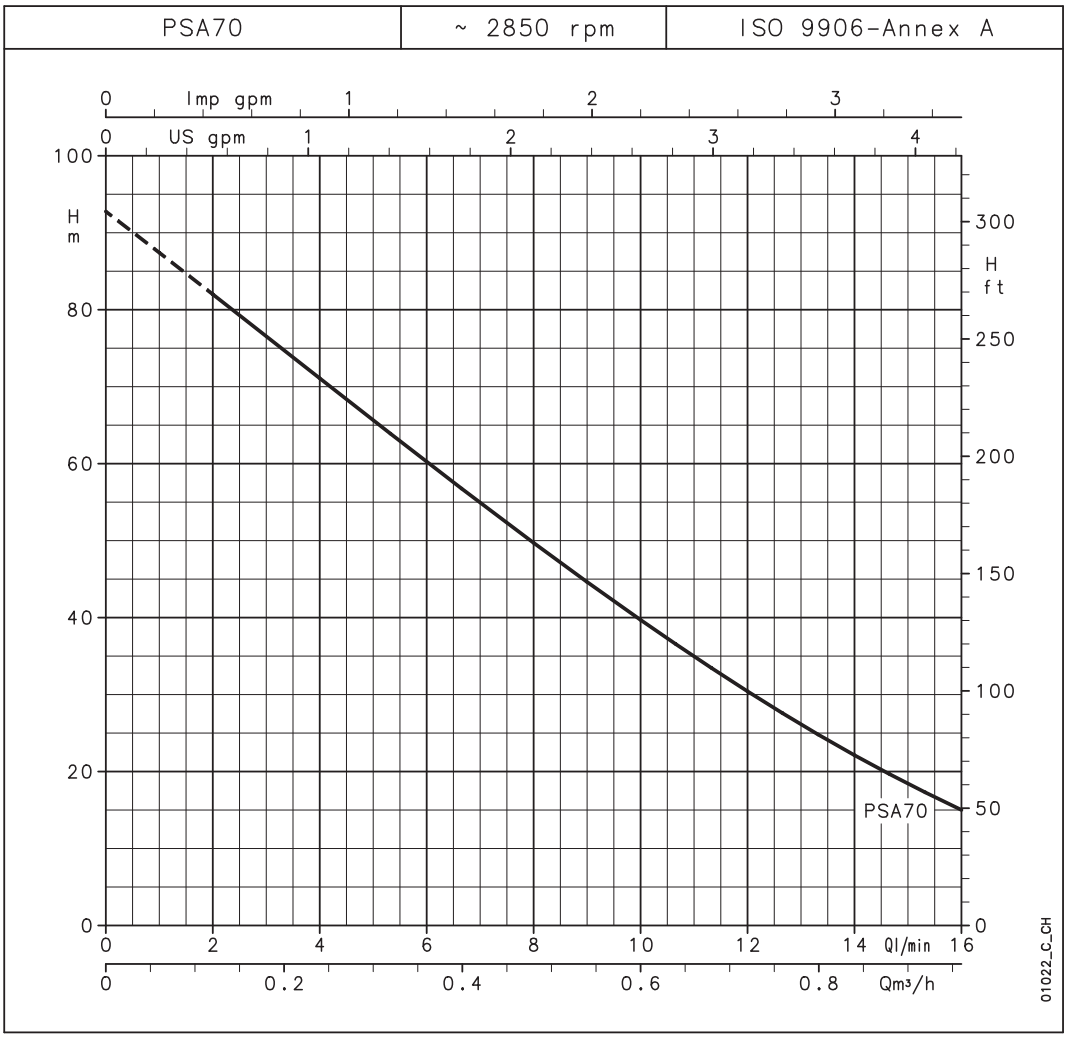
Electrical data

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR μF / 450 V	PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
PABM15	0,47	2,1	10	-	-	-	-
PABLBM15	0,47	2,1	10	-	-	-	-

*Maximum value in specified value

pab-2p50_a_te

PSA70 SERIES
Operating characteristics at 50 Hz



Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY							
			l/min	0	2	4	8	10	12	14	16
			m^3/h	0	0,12	0,24	0,48	0,6	0,72	0,84	0,96
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)								
PSA(M)70	0,37	0,5	92,8	82,0	71,1	49,7	39,7	30,4	22,1	15,0

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

psa-2p50_a_th

Electrical data

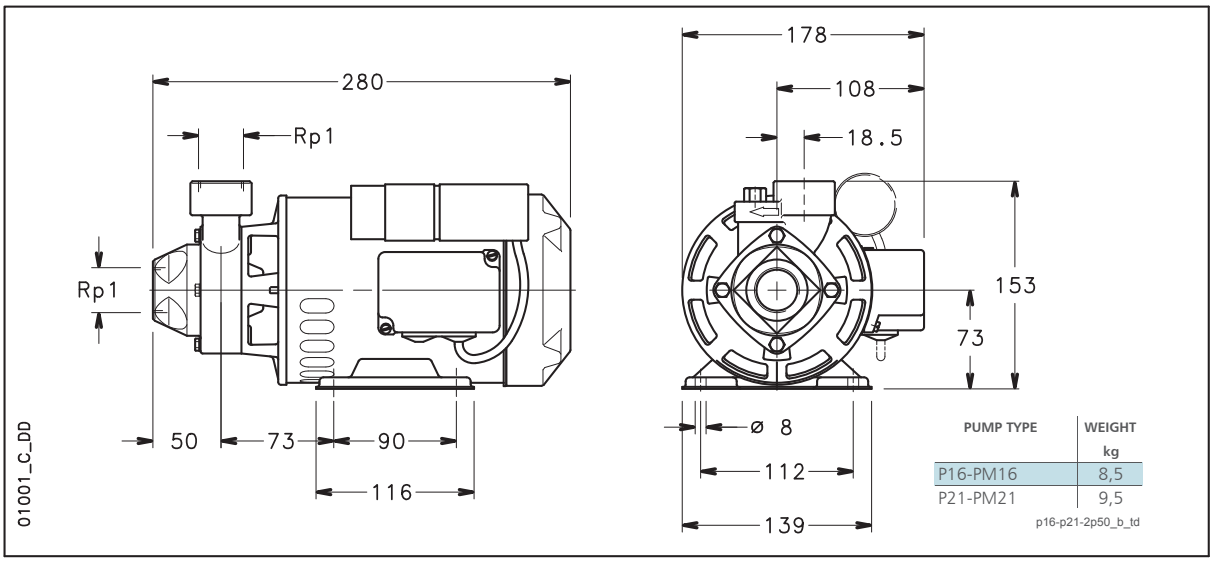
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR μF / 450 V
PSAM70	0,75	3,41	16

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
PSA70	0,76	2,75	1,59

*Maximum value in specified range

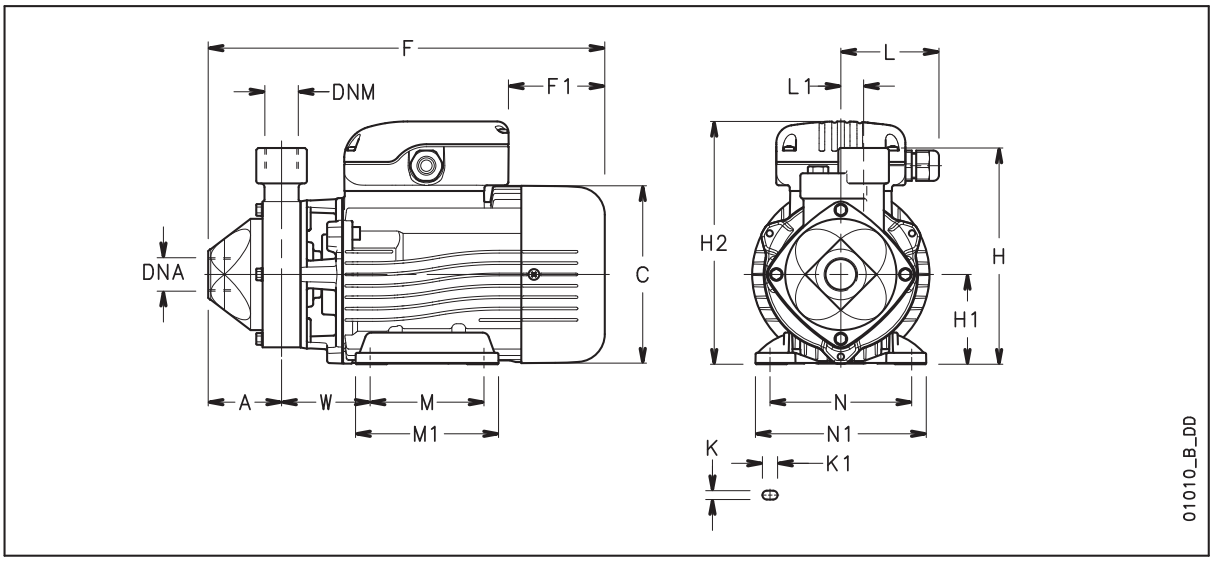
psa-2p50_a_te

P SERIES
Dimensions and weights



PUMP TYPE	WEIGHT kg
P16-PM16	8,5
P21-PM21	9,5

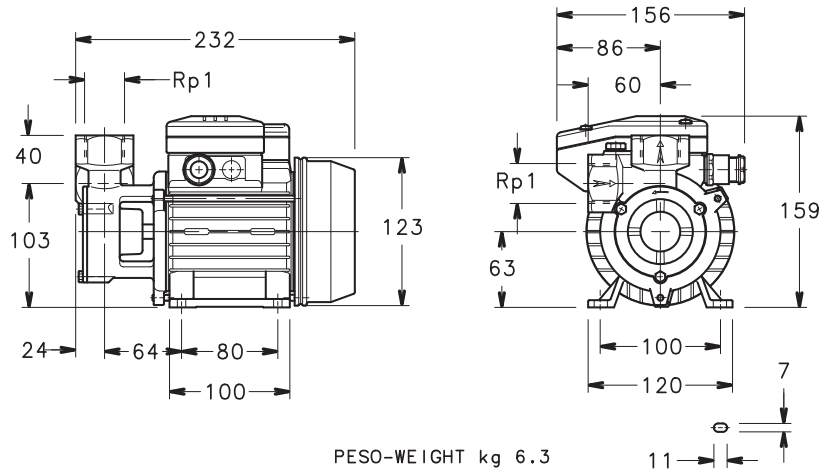
p16-p21-2p50_b_td



PUMP TYPE	DIMENSIONS (mm)																DNA DNM	WEIGHT
	A	C	F	F1	H	H1	H2	L	L1	M	M1	N	N1	K	K1	W		kg
PM30	55	140	311	76	161	71	192	78	20	90	113	112	135	7	12	70,5	Rp 1	9,7
PM40	55	140	311	76	161	71	192	78	20	90	113	112	135	7	12	71	Rp 1	10,2
PM60	58	155	354	68	180	80	217	81	20	100	124	125	153	9	12	83	Rp 1	15,5
PM70	58	140	314	76	171	71	192	78	18	90	113	112	135	7	12	70	Rp ¾	11,5
P30	55	140	311	76	161	71	192	78	20	90	113	112	135	7	12	70,5	Rp 1	9,7
P40	55	155	350	113	170	80	209	78	20	100	124	125	153	9	12	83	Rp 1	13,5
P60	58	155	354	113	180	80	209	78	20	100	124	125	153	9	12	83	Rp 1	17
P70	58	155	353	113	180	80	209	78	18	100	124	125	153	9	12	82	Rp ¾	14,8

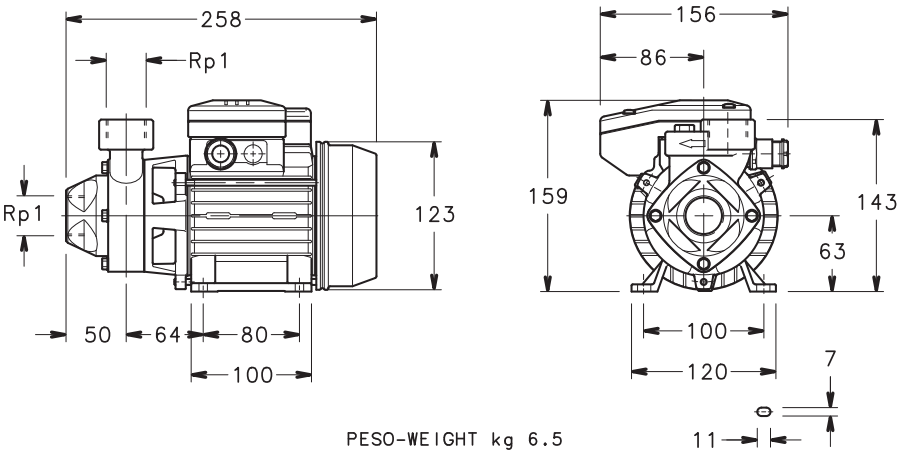
p30-70-2p50-en_c_td

PABLBM15



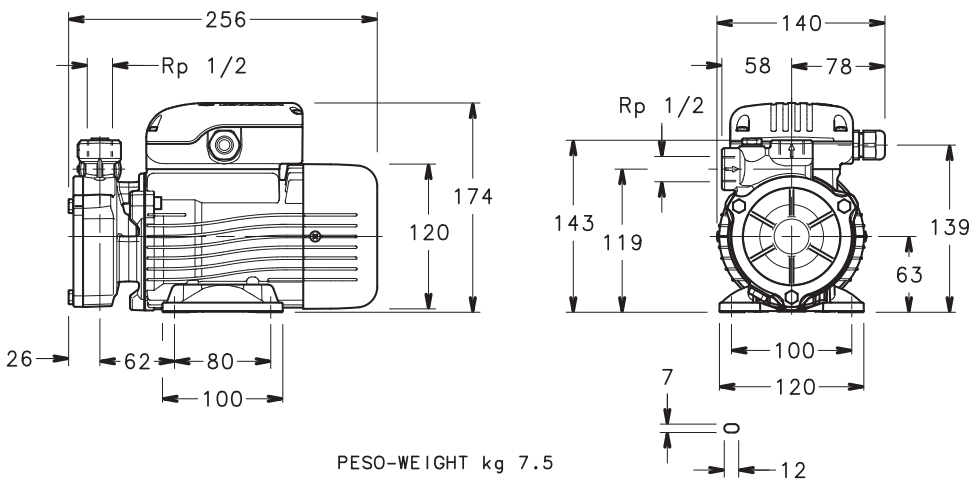
PESO-WEIGHT kg 6.3

PABM15



PESO-WEIGHT kg 6.5

PSA70



PESO-WEIGHT kg 7.5

FH Series

Centrifugal electric pumps according to EN 733 (ex DIN 24255). Electric pumps with pump casing in cast iron designed to pump clean, chemically non-aggressive water and liquids.

Available versions:
FHE Close-coupled with special motor shaft extension.

FHS With stub shaft and standard motor.

FHF With adapter, support, flexible coupling, base and standard motor according to EN 733 (ex DIN 24255).

Specifications

Delivery: up to 750 m^3/h
Head: up to 100 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.25 kW to 132 kW
Maximum operating pressure:
12 bar PN12 up to FH80
flanges PN16 for FH100,125,150
Temperature of pumped liquid:
-20°C to +85°C (FH32 to 80)
-30°C to +120°C (FH100 to 150)
Insulation class: 155 (F)
Protection: IP55

Materials

Pump body: Cast iron
Impeller: Stainless steel for sizes 32, 40, 50 and 65-125
Cast iron for remaining sizes
Adapter: Aluminium or Cast iron
Mechanical seal: Ceramic/Carbon/NBR
Elastomers: NBR

Applications

Water distribution

Heating, ventilation

Pressure boosting, irrigation

Industrial washing equipment, swimming pools

Cooling and chilling

General industry, water treatment

Heat recovery, filtration equipment

Auxiliary equipment, fire-fighting equipment

Available on request:
– different voltages and frequencies
– special materials for the mechanical seals and gaskets
– FHF with flexible coupling with spacer
– version with Hydrovar frequency converter
– version with bronze impeller



For a complete list of technical information, consult www.lowara.com

List of models, FH 50 Hz SERIES, 2 poles

SIZE	kW	VERSION					
		FHEM	2FHE	FHE	FHS	FHF	FHF..SC
32-125/07	0,75	●	–	●	●	●	●
32-125/11	1,1	●	–	●	●	●	●
32-160/15	1,5	●	–	●	●	●	●
32-160/22	2,2	●	–	●	●	●	●
32-200/30	3	–	–	●	●	●	●
32-200/40	4	–	–	●	●	●	●
32-250/55	5,5	–	●	–	–	–	–
32-250/75	7,5	–	●	–	–	–	–
40-125/11	1,1	●	–	●	●	●	●
40-125/15	1,5	●	–	●	●	●	●
40-125/22	2,2	●	–	●	●	●	●
40-160/30	3	–	–	●	●	●	●
40-160/40	4	–	–	●	●	●	●
40-200/55	5,5	–	–	●	●	●	●
40-200/75	7,5	–	–	●	●	●	●
40-250/92	9,2	–	–	●	–	–	–
40-250/110A	11	–	–	–	●	●	●
40-250/110	11	–	–	●	●	●	●
40-250/150	15	–	–	●	●	●	●
50-125/22	2,2	●	–	●	●	●	●
50-125/30	3	–	–	●	●	●	●
50-125/40	4	–	–	●	●	●	●
50-160/55	5,5	–	–	●	●	●	●
50-160/75	7,5	–	–	●	●	●	●
50-200/92	9,2	–	–	●	–	–	–
50-200/110A	11	–	–	–	●	●	●
50-200/110	11	–	–	●	●	●	●
50-250/150	15	–	–	●	●	●	●
50-250/185	18,5	–	–	●	●	●	●
50-250/220	22	–	–	●	●	●	●
65-125/40	4	–	–	●	●	●	●
65-125/55	5,5	–	–	●	●	●	●
65-125/75	7,5	–	–	●	●	●	●
65-160/92	9,2	–	–	●	–	–	–
65-160/110A	11	–	–	–	●	●	●
65-160/110	11	–	–	●	●	●	●
65-160/150	15	–	–	●	●	●	●
65-200/150	15	–	–	●	●	●	●
65-200/185	18,5	–	–	●	●	●	●
65-200/220	22	–	–	●	●	●	●
65-250/220	22	–	–	●	●	●	●
65-250/300	30	–	–	–	●	●	●
65-250/370	37	–	–	–	●	●	●
80-160/110	11	–	–	●	●	●	●
80-160/150	15	–	–	●	●	●	●
80-160/185	18,5	–	–	●	●	●	●
80-200/220	22	–	–	●	●	●	●
80-200/300	30	–	–	–	●	●	●
80-250/370	37	–	–	–	●	●	●
80-250/450	45	–	–	–	●	●	●
80-250/550	55	–	–	–	●	●	●

● = Available

fh_fhe-fhs-fhf_2p50-en_d_tem

SIZE	kW	VERSION		
		FHS	FHF	FHF..SC
100-160/185	18,5	–	●	●
100-160/220	22	●	●	●
100-160/300	30	●	●	●
100-200/185	18,5	–	●	●
100-200/300	30	●	●	●
100-200/370	37	●	●	●
100-200/450	45	–	●	●
100-250/300	30	–	●	●
100-250/450	45	–	●	●
100-250/550	55	–	●	●
100-250/750	75	–	●	●
100-250/900	90	–	●	●
125-200/300	30	–	●	●
125-200/450	45	–	●	●
125-200/550	55	–	●	●
125-270/750	75	–	●	●
125-270/900	90	–	●	●
125-270/1100	110	–	●	●
125-270/1320	132	–	●	●

● = Available

lm_fhs_fhf_2p50-en_d_tem

List of models, FH 50 Hz SERIES, 4 poles

SIZE	kW	VERSION			
		FHE4	2FHE4	FHS4	FHF4
32-125/02A	0,25	●	-	–	●
32-125/02	0,25	●	-	–	●
32-160/02	0,25	●	-	–	●
32-160/03	0,37	●	-	–	●
32-200/03	0,37	●	-	–	●
32-200/05	0,55	●	-	–	●
32-250/07	0,75	–	●	–	–
32-250/11	1,1	–	●	–	–
40-125/02A	0,25	●	-	–	●
40-125/02	0,25	●	-	–	●
40-125/03	0,37	●	-	–	●
40-160/03	0,37	●	-	–	●
40-160/05	0,5	●	-	–	●
40-200/07	0,75	●	-	●	●
40-200/11	1,1	●	-	●	●
40-250/11	1,1	●	-	●	●
40-250/15	1,5	●	-	●	●
40-250/22	2,2	●	-	●	●
50-125/03A	0,37	●	-	–	●
50-125/03	0,37	●	-	–	●
50-125/05	0,5	●	-	–	●
50-160/07	0,75	●	-	●	●
50-160/11	1,1	●	-	●	●
50-200/11	1,1	●	-	●	●
50-200/15	1,5	●	-	●	●
50-250/22A	2,2	●	-	●	●
50-250/22	2,2	●	-	●	●
50-250/30	3	●	-	●	●
65-125/05	0,5	●	-	●	●
65-125/07	0,75	●	-	●	●
65-125/11	1,1	●	-	●	●
65-160/11	1,1	●	-	●	●
65-160/15	1,5	●	-	●	●
65-160/22	2,2	●	-	●	●
65-200/15	1,5	●	-	●	●
65-200/22	2,2	●	-	●	●
65-200/30	3	●	-	●	●
65-250/30	3	●	-	●	●
65-250/40	4	●	-	●	●
65-250/55	5,5	●	-	●	●
65-315/40	4	–	-	–	●
65-315/55	5,5	–	-	–	●
65-315/75	7,5	–	-	●	●
65-315/110A	11	–	-	–	●
65-315/110	11	–	-	●	●
80-160/15	1,5	●	-	●	●
80-160/22	2,2	●	-	●	●
80-200/30	3	●	-	●	●
80-200/40	4	●	-	●	●
80-250/40	4	●	-	●	●
80-250/55	5,5	●	-	●	●
80-250/75	7,5	●	-	●	●
80-315/55	5,5	–	-	–	●
80-315/75	7,5	–	-	–	●
80-315/110	11	–	-	●	●
80-315/150	15	–	-	●	●
80-400/185	18,5	–	-	–	●
80-400/220	22	–	-	–	●
80-400/300	30	–	-	–	●

● = Available

fh_fhe4-fhs4-fhf4_4p50-en_d_tem

SIZE	kW	VERSION	
		FHS4	FHF4
100-160/22	2,2	–	●
100-160/30	3	●	●
100-160/40	4	–	●
100-200/22	2,2	–	●
100-200/40	4	●	●
100-200/55	5,5	●	●
100-250/40	4	–	●
100-250/55	5,5	–	●
100-250/75	7,5	●	●
100-250/110	11	●	●
100-315/150	15	●	●
100-315/185	18,5	●	●
100-315/220	22	●	●
100-400/300	30	–	●
100-400/450	45	–	●
125-200/40	4	–	●
125-200/55	5,5	●	●
125-200/75	7,5	●	●
125-250/75	7,5	–	●
125-250/110	11	●	●
125-250/150	15	●	●
125-250/185	18,5	●	●
125-270/75	7,5	–	●
125-270/110	11	–	●
125-270/150	15	–	●
125-315/185	18,5	–	●
125-315/220	22	●	●
125-315/300	30	●	●
125-315/370	37	–	●
125-400/220	22	–	●
125-400/300	30	–	●
125-400/450	45	–	●
125-400/550	55	–	●
150-250/150	15	●	●
150-250/185	18,5	●	●
150-250/220	22	●	●
150-250/300	30	●	●
150-315/300	30	●	●
150-315/370	37	–	●
150-315/450	45	–	●
150-315/550	55	–	●
150-400/300	30	–	●
150-400/370	37	–	●
150-400/450	45	–	●
150-400/550	55	–	●
150-400/750	75	–	●
150-400/900	90	–	●

● = Available

lm_fhs4-fhf4_4p50-en_d_tem

FH SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			l/min 0	100	150	250	300	400	450	600	700	800	900	1200	1400	1500	1800	2000	2300	3000	3500
			m^3/h 0	6	9	15	18	24	27	36	42	48	54	72	84	90	108	120	138	180	210
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)																		
32-125/07*	0,75	1	16,9		14,6	11	8,7														
32-125/11*	1,1	1,5	21,9		19,6	16,3	14,2	9													
32-160/15*	1,5	2	27,3		24,5	20,5	17,8	11													
32-160/22*	2,2	3	34,7		32	28	25,3	18,8	15												
32-200/30	3	4	44,2		39,8	35,2	32,2	24,6	19,8												
32-200/40	4	5,5	54,4		50	45	41,9	34,6	30,3												
32-250/55	5,5	7,5	79	74,7	71	62	56	37													
32-250/75	7,5	10	99	95,3	92	83	76	58													
40-125/11*	1,1	1,5	14,5				13	11,3	10,1	5,8											
40-125/15*	1,5	2	18,1				16,7	15	13,9	9,6	6										
40-125/22*	2,2	3	24,5				23	21	20,1	15,8	12,3	8,2									
40-160/30	3	4	31,5				29,4	27,5	26,1	21,5	17,4										
40-160/40	4	5,5	38				36,2	34	33	28,5	24,5	20,1									
40-200/55	5,5	7,5	46,5				44	41,5	40,2	34,5	29,5										
40-200/75	7,5	10	57				54	52	50	45,5	41	36,1									
40-250/**	**	**	64				59	56	55	49	45	39,5									
40-250/110	11	15	72				67,5	65	63	57	52	47									
40-250/150	15	20	85				80	77	75	70	65	60									
50-125/22*	2,2	3	17							15,1	14	12,8	11,4	6,2							
50-125/30	3	4	20							18,8	18	16,9	15,6	10,5							
50-125/40	4	5,5	24							23,1	22,5	21,5	20,3	15,8	11,8						
50-160/55	5,5	7,5	32							30,6	29,5	28	26,6	20,5	14,8						
50-160/75	7,5	10	40							38	37	36	34,4	29	24	21					
50-200/**	**	**	50,5							46,8	45	43	40,9	32,5	25,7						
50-200/110	11	15	58							54	53	50	48,3	40	33	29					
50-250/150	15	20	68							64	63	61	59	50	41						
50-250/185	18,5	25	77							73	72	70	68	60	52	47					
50-250/220	22	30	86							82,5	81	80	78	70	61	57					
65-125/40	4	5,5	19									17,3	16,8	14,5	13	11,8					
65-125/55	5,5	7,5	23									21,3	20,9	19	17,5	16,7	13,7				
65-125/75	7,5	10	27									26	25,6	24,5	23	22,5	20	18			
65-160/**	**	**	33										31,5	30	28	27,1	24	21,5			
65-160/110	11	15	36										34,5	33	31,5	30,8	28	25,5			
65-160/150	15	20	42										41	40	38,5	37,8	35	33	29,5		
65-200/150	15	20	45										45,5	43	41	40,2	36,5	34			
65-200/185	18,5	25	52										52	51	49	48	44,5	42			
65-200/220	22	30	59										59,5	58	56	55	52	49,5	44,5		
65-250/220	22	30	62										61	58	56	54	48,5	44			
65-250/300	30	40	76										74,5	73	71	69	64	61	54		
65-250/370	37	50	90										88	86	84	83	78	75	68		
80-160/110	11	15	27													27,3	26	24,5	22,5	16	
80-160/150	15	20	33													32,5	31	30	28	22	16,5
80-160/185	18,5	25	39													38	36,5	35,5	34	28,5	23,3
80-200/220	22	30	48													47	45	43,5	41	32,5	24,5
80-200/300	30	40	60													59,5	58	57	54,5	47	40,5
80-250/370	37	50	71													70	67	65	61	49	38
80-250/450	45	61	80													80,5	78	76	73	62	51
80-250/550	55	75	92													93	91	90	87	77	68

* Single-phase version (FHEM) also available
** /92 = 9.2kW - 12.5HP FHE ** /110 = 11kW - 15HP FHS
Performance complies with ISO 9906 - Annex A.

fhe-fhs-fhf-2p50_b_th

FH SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY														
			l/min 0	1333	1500	1667	2000	2500	3333	4167	5000	5833	6667	8333	9167	10000	10833
			m^3/h 0	79,98	90	100	120	150	200	250	300	350	400	500	550	600	650
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)														
100-160/185	18,5	25	26,7	26,8	26,6	26	25,8	24,5	21,4	17,4	12,6						
100-160/220	22	30	33	33	32,7	32,4	31,6	30	26,6	22,2	16,8						
100-160/300	30	40	42,3	42	42	42	41	39	36	31,5	26	19,6					
100-200/185	18,5	25	36,4		34,5	34	32,4	29,5	23,2	15,2							
100-200/300	30	40	49		48,5	48	47	45	40	33,2	24,6						
100-200/370	37	50	56		55,6	55	54	52	48	41	33,2						
100-200/450	45	60	61		61	61	60	59	55	49	41	31,6					
100-250/300	30	40	54,6			53,3	52	48	41	29,5	14,9						
100-250/450	45	60	68,8			68,1	67	65	58	49	36,3						
100-250/550	55	75	78,5			78,1	77	75	70	62	49	34					
100-250/750	75	100	91,8			91,7	91	89	85	78	68	54					
100-250/900	90	120	103			102,8	102	101	97	90	80	66	49				
125-200/300	30	40	32,4				30,5	29,1	26,5	23,9	21,4	19	16,2				
125-200/450	45	60	47				45,5	44	42	39,2	36,2	32,9	29,4	21,0			
125-200/550	55	75	57,3				55,7	55	53	50	47	44	39,5	29,5	23,5		
125-270/750	75	100	64,9					64,6	63	60	57	54	50	40	34,1		
125-270/900	90	120	75,1					74,5	73	71	68	65	61	51	46	36,7	
125-270/1100	110	150	87,6					86,7	85	83	80	77	74	64	56	47	
125-270/1320	132	180	96,8					96,1	94	92	90	87	83	75	69	61	50,7

Performances complies with ISO 9906 - Annex A.

lm-fhs-fhf-2p50_c_th

Black and white technical books available

see www.lowara.it

FH SERIES
Hydraulic performance table at 50 Hz, 4 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																			
			l/min 0	75	100	150	175	200	300	400	450	500	600	700	750	1000	1200	1400	1600	1800	2333	2500
			m^3/h 0	4,5	6	9	10,5	12	18	24	27	30	36	42	45	60	72	84	96	108	140	150
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																			
32-125/02A*	0,25	0,33	4,4	3,9	3,5	2,5	1,8															
32-125/02*	0,25	0,33	5,5	5	4,7	3,8	3,1	2,4														
32-160/02*	0,25	0,33	6,5	5,8	5,4	4,3	3,6	2,8														
32-160/03*	0,37	0,5	8,5	7,7	7,3	6	5,7	4,9														
32-200/03*	0,37	0,5	9,9	8,7	8,1	6,7	5,9	5														
32-200/05*	0,55	0,75	12,5	11,3	10,7	9,3	8,4	7,5														
32-250/07	0,75	1	19,4	17,7	16,7	13,8	11,7	9														
32-250/11	1,1	1,5	22,5	20,8	19,9	17,0	15	12,5														
40-125/02A*	0,25	0,33	4			3,8	3,6	3,4	2,2													
40-125/02*	0,25	0,33	5,1			4,7	4,5	4,3	3,1													
40-125/03*	0,37	0,5	6,3			5,8	5,6	5,4	4,2	2,3												
40-160/03*	0,37	0,5	7,4			6,7	6,4	6,1	4,6													
40-160/05*	0,55	0,75	9,1			8,4	8,2	7,9	6,3	4,3												
40-200/07	0,75	1	11,6			10,8	10,5	10,2	8,4													
40-200/11	1,1	1,5	14,1			13,2	12,9	12,6	10,8	8,3												
40-250/11	1,1	1,5	15			13,7	13,3	13	11,2	8,5	6,8											
40-250/15	1,5	2	17,5			16,2	15,8	15,5	13,5	10,8	9,2											
40-250/22	2,2	3	21			19,3	19	18,5	16,6	14	12,4	10,6										
50-125/03A*	0,37	0,5	4,3						3,9	3,4	3,1	2,7	1,8									
50-125/03*	0,37	0,5	5,0						4,4	3,9	3,6	3,3	2,4									
50-125/05*	0,55	0,75	6						5,5	5,1	4,7	4,4	3,5	2,5								
50-160/07	0,75	1	7,9						7,4	6,8	6,3	5,8	4,7									
50-160/11	1,1	1,5	9,7						9,1	8,5	8,1	7,6	6,5	5,1								
50-200/11	1,1	1,5	12,1						10,8	9,9	9,2	8,6	7,1	5,2								
50-200/15	1,5	2	13,9						12,6	11,6	10,9	10,2	8,6	6,7	5,7							
50-250/22A	2,2	3	16,5						15,6	14,6	14	13,2	11,4	9,1								
50-250/22	2,2	3	18,6						17,4	16,5	15,9	15,2	13,4	10,1	9,8							
50-250/30	3	4	21,1						20	19	18,5	17,8	16,2	14,2	13							
65-125/05	0,55	0,75	4,6							4,1	4	3,8	3,4	2,9	2,7							
65-125/07	0,75	1	5,6							5,2	5	4,9	4,5	4,2	3,9	2,6						
65-125/11	1,1	1,5	6,6							6,3	6,2	6,1	5,9	5,6	5	4,2						
65-160/11	1,1	1,5	8,0									7,3	7	6,6	6,3	4,8	3,4					
65-160/15	1,5	2	9									8,3	8	7,6	7,4	6	4,6					
65-160/22	2,2	3	10,3									9,8	9,5	9,2	9	7,8	6,5	5,0				
65-200/15	1,5	2	10									9,6	9,1	8,5	8,2	6,4	4,6					
65-200/22	2,2	3	12,4									12,2	11,8	11,3	11	9,3	7,6					
65-200/30	3	4	14,4									14,3	13,8	13,4	13,1	11,3	9,6	7,5				
65-250/30	3	4	15,4								14,8	14,6	13,9	13,1	12,6	9,7	6,7					
65-250/40	4	5,5	19								18,6	18,3	17,8	17,2	16,9	14,4	11,7					
65-250/55	5,5	7,5	22,3								21,5	21,3	20,9	20,3	19,9	17,7	15,1	12,0				
65-315/40	4	5,5	18,6							18,3	18,1	17,9	17,3	16,7	16,2	13,3						
65-315/55	5,5	7,5	22,1							21,8	21,7	21,6	21,2	20,6	20,2	17,3	14					
65-315/75	7,5	10	26,5							26,2	26,1	26	25,6	25,2	24,9	23	20,8	17,6				
65-315/110A	11	15	30,6							30,5	30,4	30,3	30	29,7	29,5	27,9	25,8	22,8	18,6			
65-315/110	11	15	34,8							34,7	34,6	34,5	34,2	33,9	33,7	32,1	30,2	27,4	23,7	18,7		
80-160/15	1,5	2	7,2												7,1	6,4	5,5	4,6	3,5			
80-160/22	2,2	3	8,5												8,6	8,0	7,4	6,6	5,7	5		
80-200/30	3	4	11,2												11,0	10,1	9,2	8	6,6			
80-200/40	4	5,5	13,8												13,8	13,3	12,4	11,3	10	9		
80-250/40	4	5,5	16,5												16,0	14,8	13,2	11,4	9			
80-250/55	5,5	7,5	19,8												19,5	18,4	17,2	15,5	13,5	11,1		
80-250/75	7,5	10	23,6												23,5	22,5	21,3	19,9	18,1	16		
80-315/55	5,5	7,5	19,7									19,5	19,4	19,2	19,1	18,1	16,8	15	12,8	10,1		
80-315/75	7,5	10	24,6									24,4	24,3	24,1	23,9	23	21,9	20,4	18,6	16,3		
80-315/110	11	15	29,9									29,7	29,6	29,5	29,4	28,8	28,1	27	25,5	23,6	16,5	13,5
80-315/150	15	20	36,8									37	36,8	36,6	36,4	35,6	34,7	33,6	32,4	30,9	25,3	23
80-400/185	18,5	25	40,3											39,7	39,7	39,1	38,4	37,3	35,9	34,1	27,3	24,5
80-400/220	22	30	45,1											44,7	44,6	44,2	43,6	42,6	41,4	39,8	33,4	30,7
80-400/300	30	40	55,1											54,7	54,7	54,4	54	53,3	52,2	50,9	45,4	43,2

* FHE4 VERSION ONLY

fhe4-fhs4-fhf4-4p50-en_d_th

Performances according to ISO 9906 - Annex A.

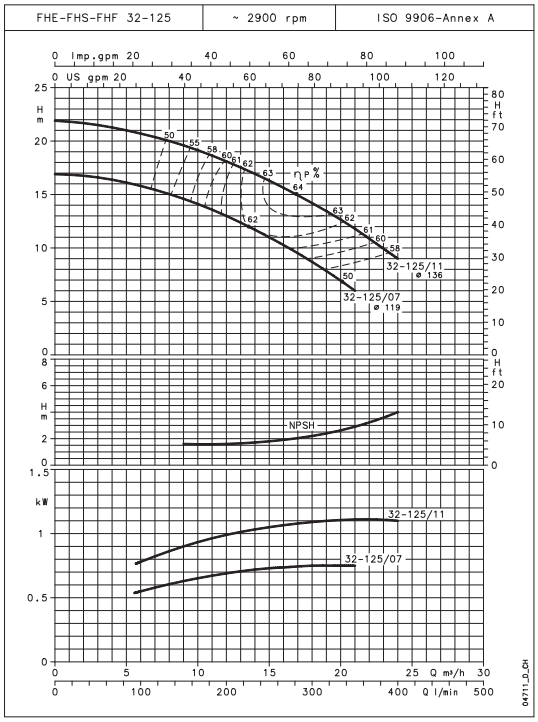
FH SERIES
Hydraulic performance table at 50 Hz, 4 poles

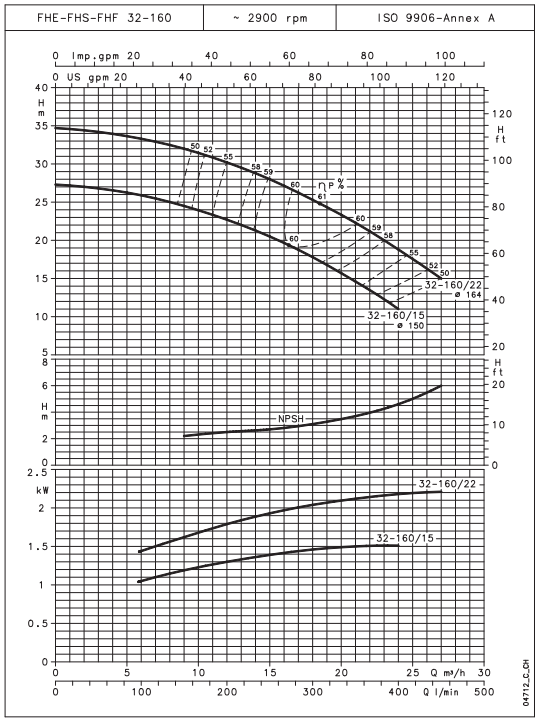
PUMP TYPE	RATED POWER		Q = DELIVERY																
			l/min 0	500	583	667	833	1000	1500	1667	1833	2333	2500	3333	4167	5000	6667	8333	10000
			m^3/h 0	30	35	40	50	60	90	100	110	140	150	200	250	300	400	500	600
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																
100-160/22	2,2	3	5,9	5,9	5,9	5,8	5,7	5,5	4,9	4,6	4,3								
100-160/30	3	4	8,2	8,2	8,1	8,1	8	7,9	7,2	6,9	6,5	5,1							
100-160/40	4	5,5	10	10	10	10	9,9	9,7	9	8,7	8,3	6,9	6,3						
100-200/22			8,5		8,3	8,2	7,9	7,5	5,9	5,2	4,5								
100-200/40	4	5,5	11,8		11,8	11,8	11,6	11,4	10,3	9,7	9,1	6,8	5,9						
100-200/55	5,5	7,5	14,8		14,7	14,7	14,7	14,5	13,8	13,5	13	11,1	10,3						
100-250/40	4	5,5	12,9			12,9	12,6	12,1	10,1	9,2	8,2								
100-250/55	5,5	7,5	15,9			15,9	15,7	15,5	14,1	13,4	12,5	9,2	7,9						
100-250/75	7,5	10	19,5			19,5	19,4	19,2	18,1	17,6	16,9	14	12,7						
100-250/110	11	15	24,3			24,3	24,2	24,1	23,1	22,7	22,1	19,7	18,6	11,4					
100-315/150	15	20	29,9				29,7	29,5	28,6	28,1	27,5	25	24	16,8					
100-315/185	18,5	25					34,4	34,2	33,3	32,8	32,2	30	29	22,4					
100-315/220	22	30	37				36,8	36,7	35,9	35,5	35,1	33,2	32,4	26,6					
100-400/300	30	40	46,4					46	46	45	44	42	40	29,6					
100-400/450	45	60	57,1					56,7	56	56	55	53	52	45	32,1				
125-200/40	4	5,5	7,9					7,4	6,7	6,5	6,2	5,4	5,2	3,8					
125-200/55	5,5	7,5	11,4					10,8	10,2	10	9,7	8,9	8,6	6,9					
125-200/75	7,5	10	14,1					13,6	13,1	12,9	12,7	11,9	11,6	9,6					
125-250/75	7,5	10	15,4					15,3	15	14,8	14,6	13,6	13,1						
125-250/110	11	15	19,4					19,3	19,1	19	18,9	18,1	17,8	15,3	11,7				
125-250/150	15	20	23,2					23,3	23,1	23	22,9	22	22	19,8	16,5	12,3			
125-250/185	18,5	25	25,6					25,5	25,5	25,4	25,3	24,9	24,7	23	20,3	16,5			
125-270/75	7,5	10	14,4					14,4	13,9	13,7	13,5	12,6	12,2	10,1	7,3				
125-270/110	11	15	18,0					18,1	17,8	17,7	17,5	16,8	16,5	14,5	11,8	8,3			
125-270/150	15	20	22,6					22,6	22,3	22,1	21,9	21,2	21	19,2	16,7	13,6			
125-315/185	18,5	25	27,3							26,9	26,7	25,9	25,6	23,3	19,7	14,9			
125-315/220	22	30	30							29,7	29,6	28,9	28,6	26,5	23,2	18,4			
125-315/300	30	40	35,6							35,4	35,3	34,8	34,6	32,9	30,1	26,1			
125-315/370	37	50	38,2							38	37,9	37,4	37,2	35,7	33,1	29,4	17,8		
125-400/220	22	30	33,4						32,8	32,5	32,1	30,5	29,7	24,7	17,3				
125-400/300	30	40	41						41	40,5	40,3	39,2	38,6	34,4	27,5	18,3			
125-400/450	45	60	51,4						51	50,9	50,8	50,1	49,8	47	42,2	34,8			
125-400/550	55	75	56,5						56,3	56,3	56,2	55,9	55,7	53,8	50,3	44,7	26,7		
150-250/150	15	20	17,5										16,8	15,9	14,7	13,2	9,2		
150-250/185	18,5	25	21,3										20,8	20	18,9	17,5	13,8	8,7	
150-250/220	22	30	24										23,6	23	22	20,8	17,1	12	
150-250/300	30	40	25,5										25	24,5	23,5	22	18,8	13,8	
150-315/300	30	40	30,2										29,7	29	27,9	26,4	22,3		
150-315/370	37	50	33,6										33,5	32,7	31,7	30,4	26,7	21,4	
150-315/450	45	60	37,7										37,6	36,9	35,9	34,7	31,3	26,5	
150-315/550	55	75	40										40	39,3	38,4	37,2	33,9	29,4	
150-400/300	30	40	32,9									32	31,7	30,2	28,2	25,5	18,6		
150-400/370	37	50	38,3									37,5	37,3	36	34	31,4	24,3		
150-400/450	45	60	42,8									42,2	42	41	39	36,6	30	21,2	
150-400/550	55	75	48,2									47,7	48	46	45	42	36,8	29,2	
150-400/750	75	100	55,4									55	55	54	53	51	47	41	32,2
150-400/900	90	120	59,5									59	59	58	57	56	52	46	37,7

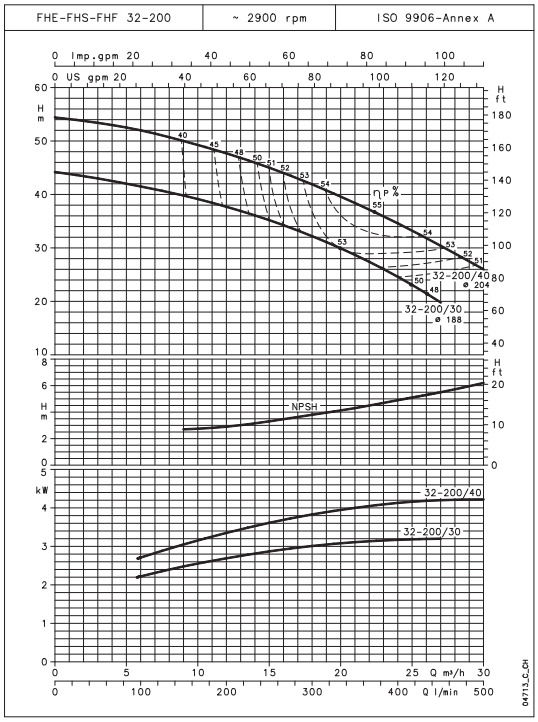
Performances according to ISO 9906 - Annex A.

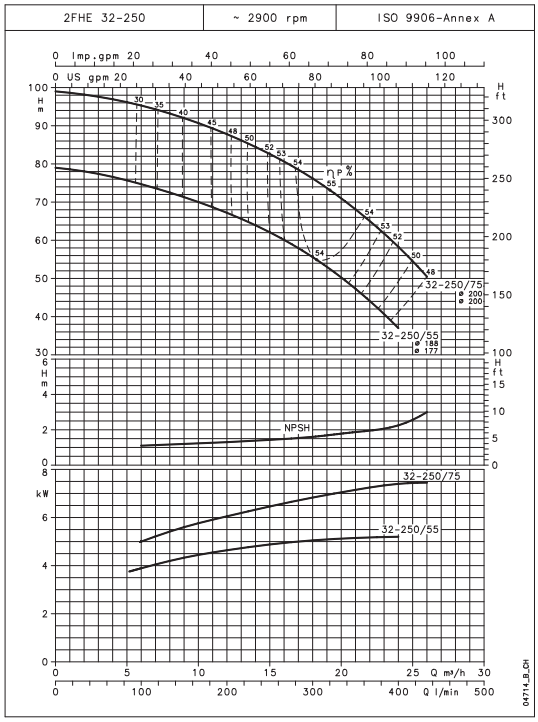
lm-fhs4fhf4-4p50-en_d_th

FH SERIES
Operating characteristics at 50 Hz, 2 poles





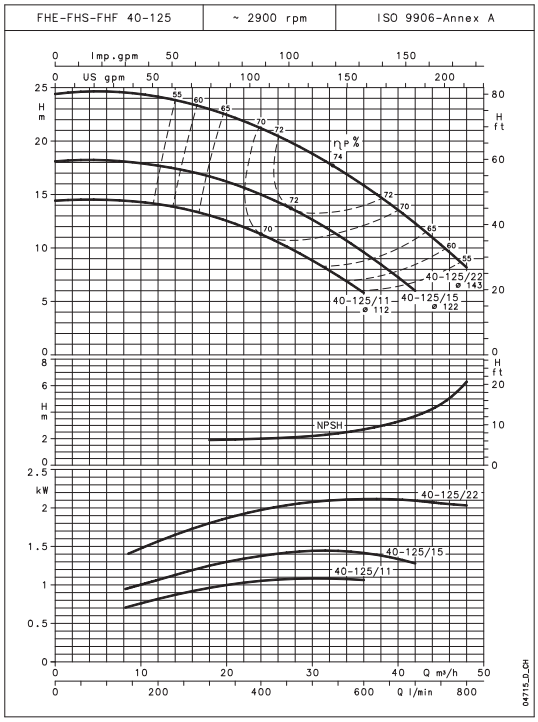


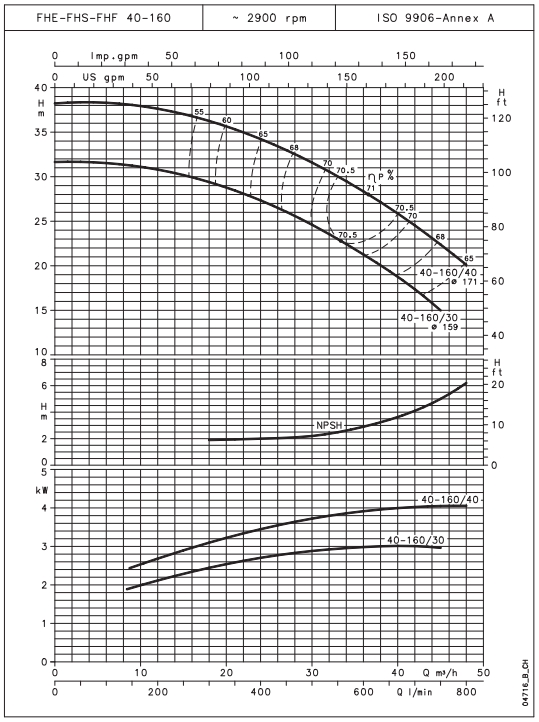


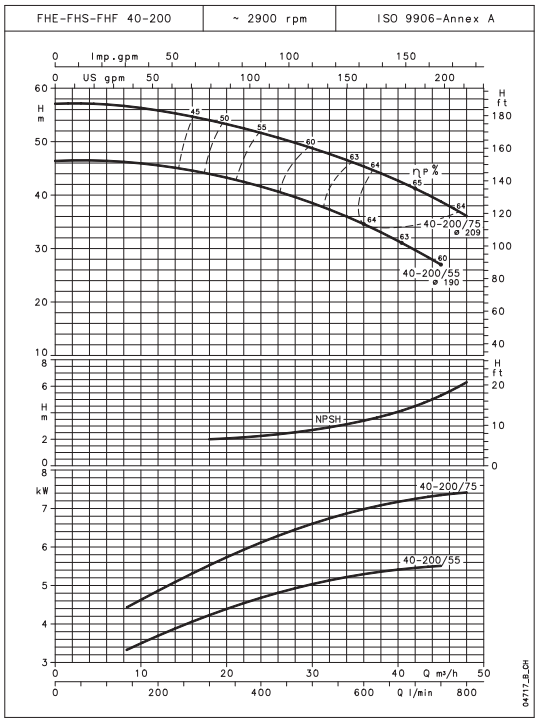
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

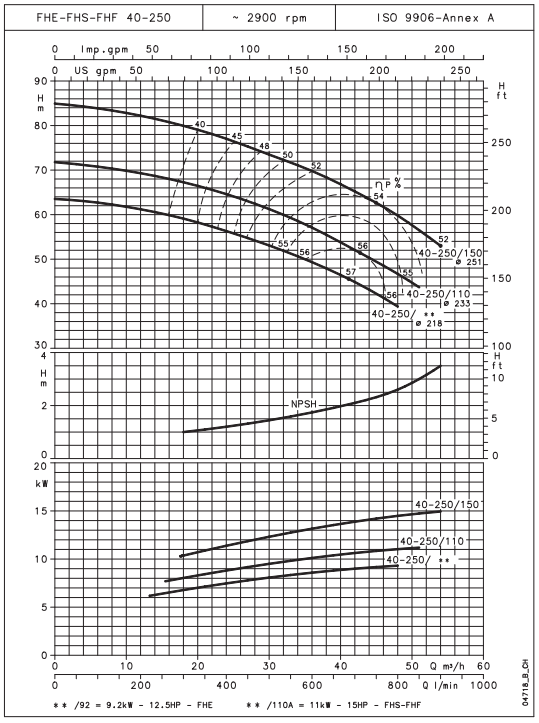
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FH SERIES
Operating characteristics at 50 Hz, 2 poles





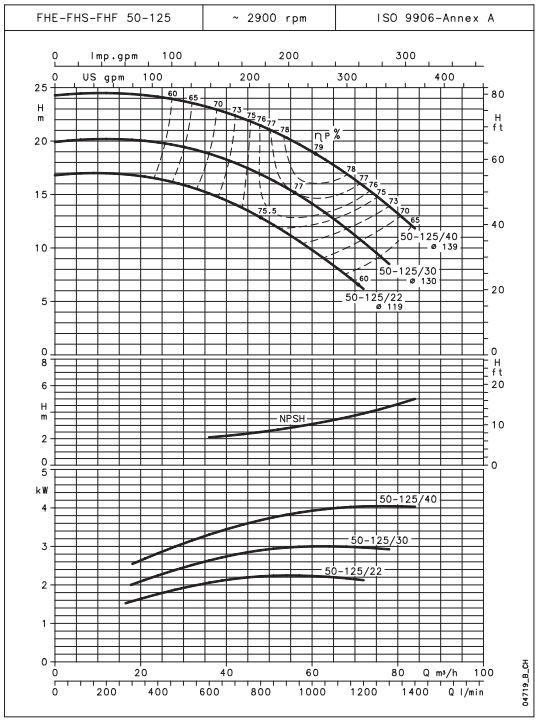


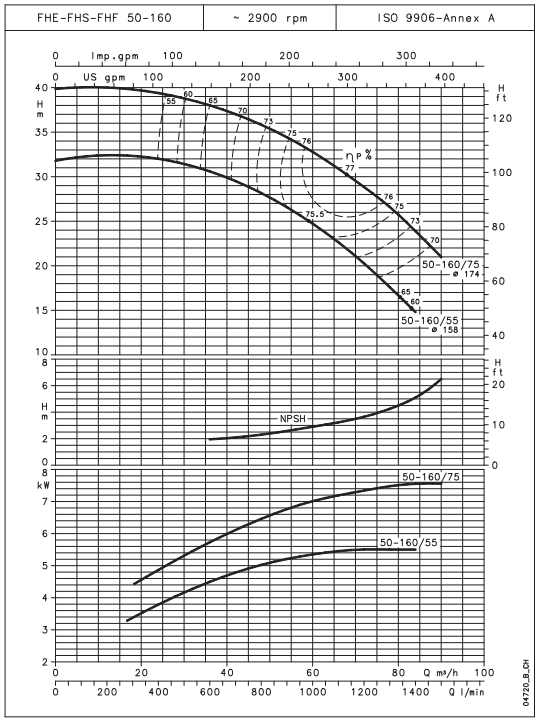


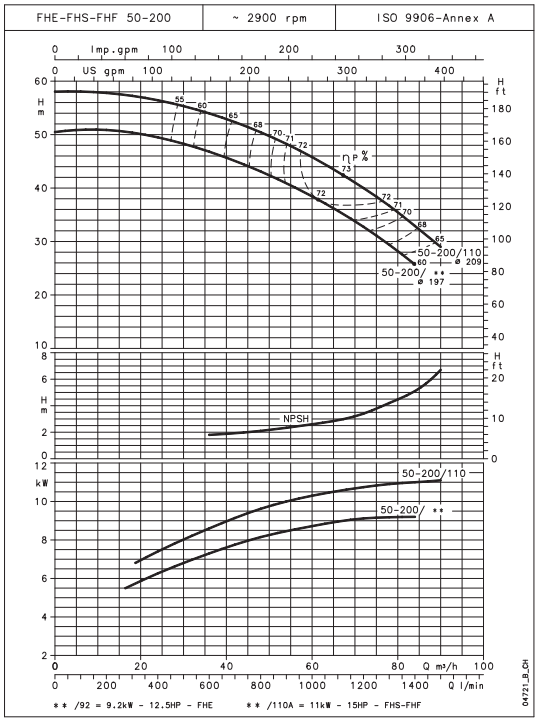
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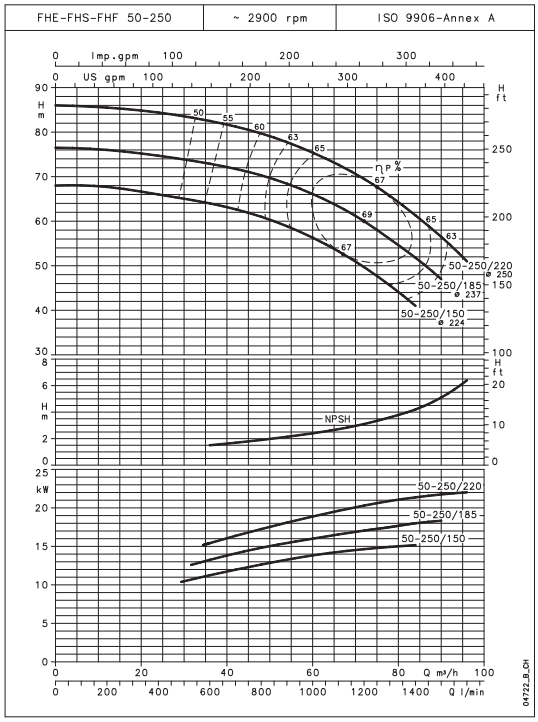
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FH SERIES
Operating characteristics at 50 Hz, 2 poles





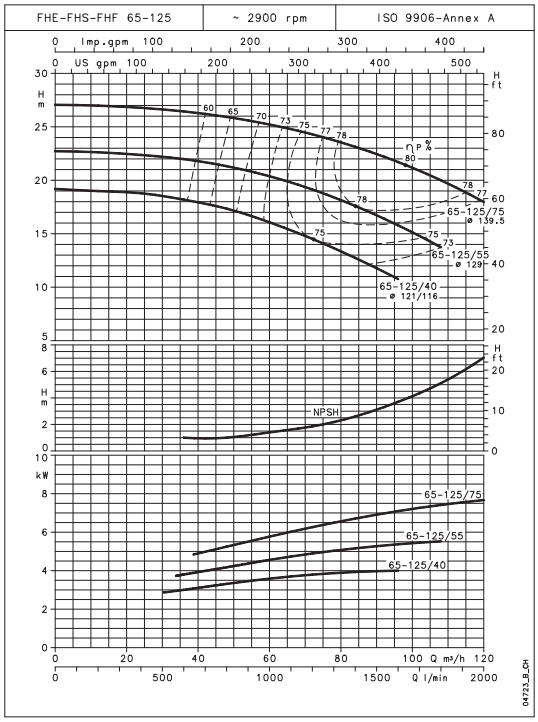


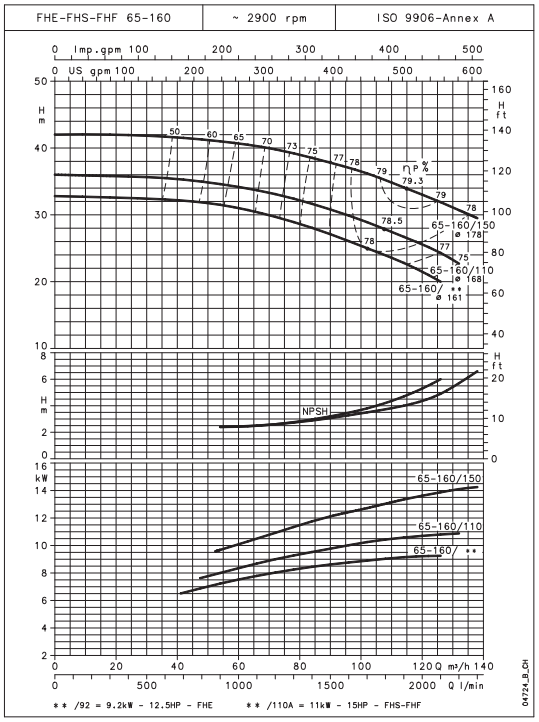


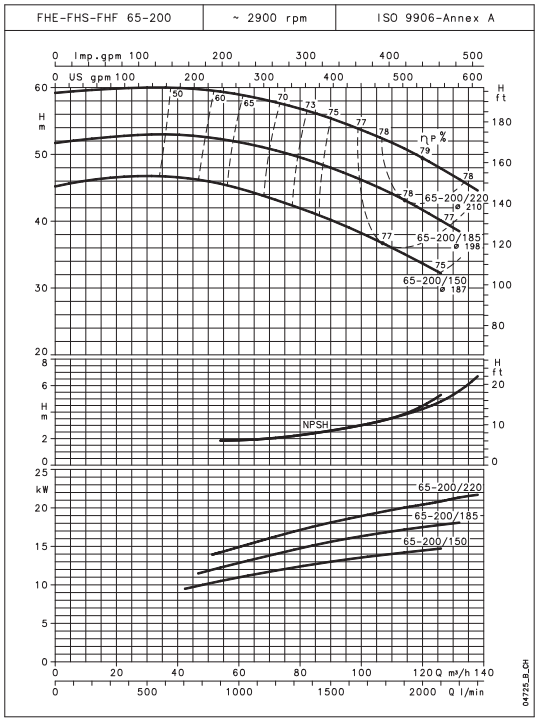
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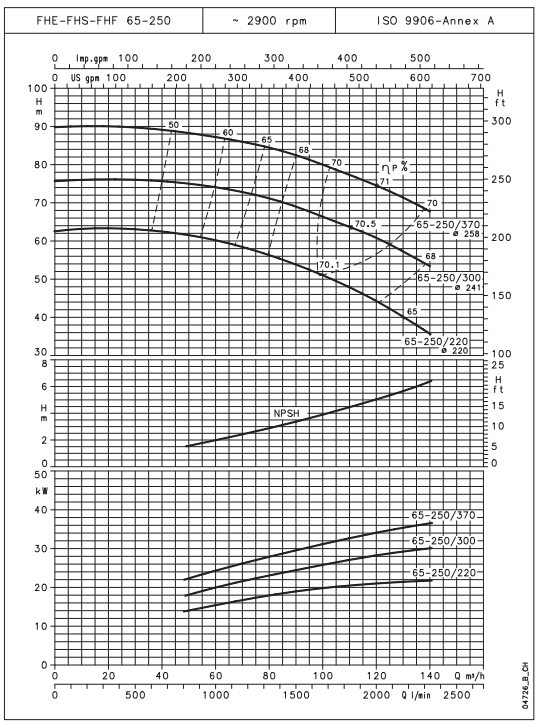
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FH SERIES
Operating characteristics at 50 Hz, 2 poles





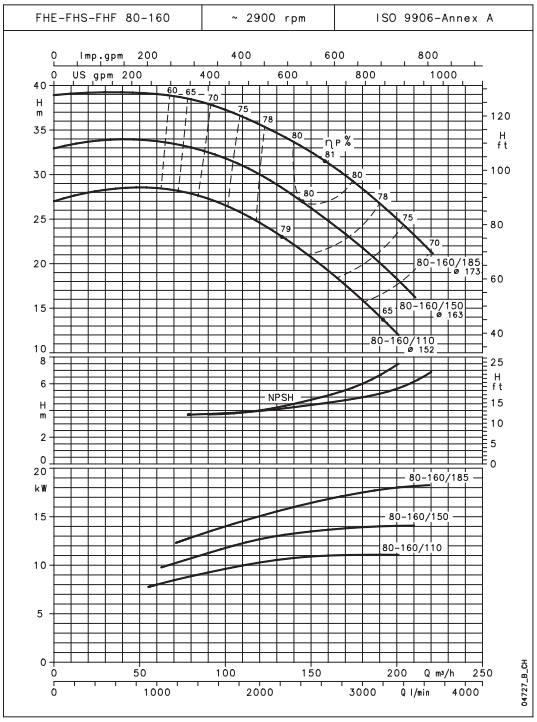


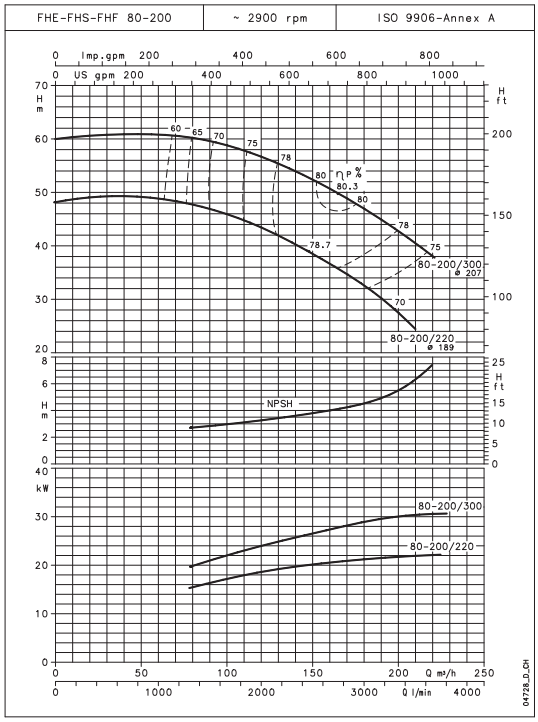


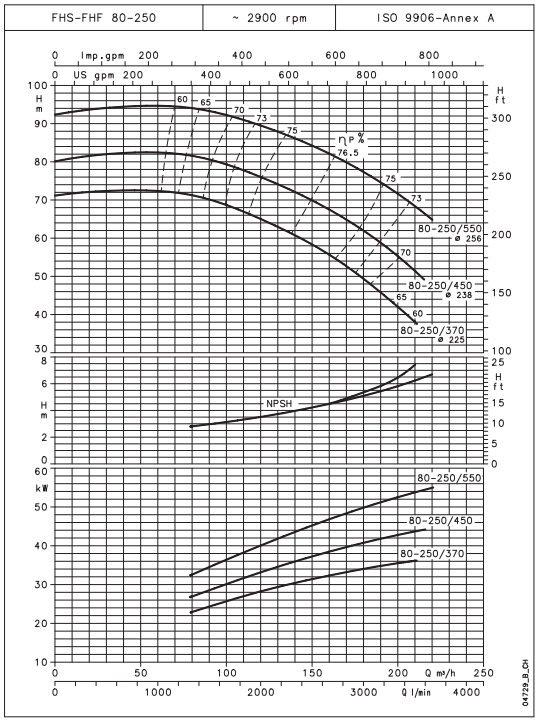
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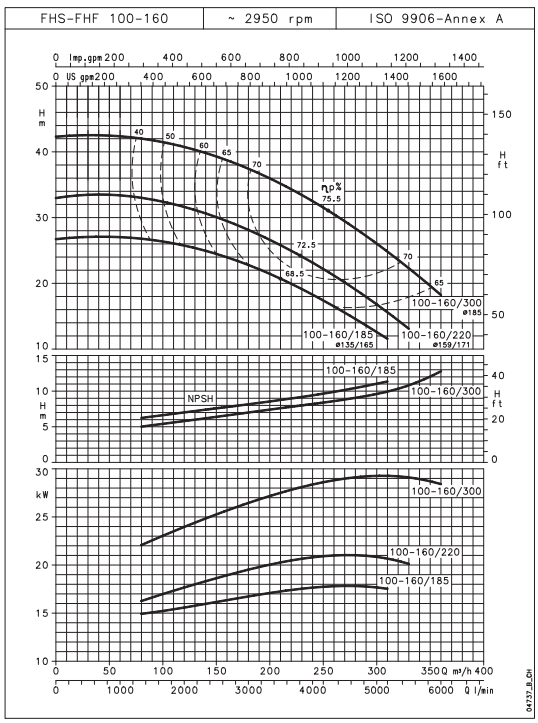
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FH SERIES
Operating characteristics at 50 Hz, 2 poles





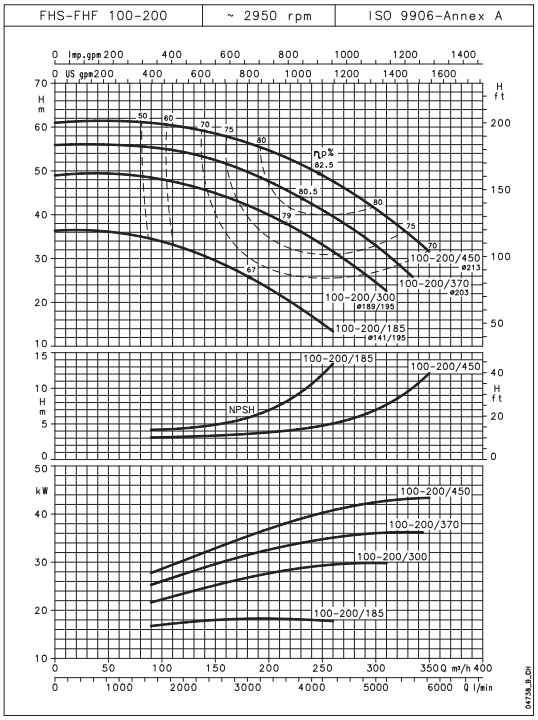


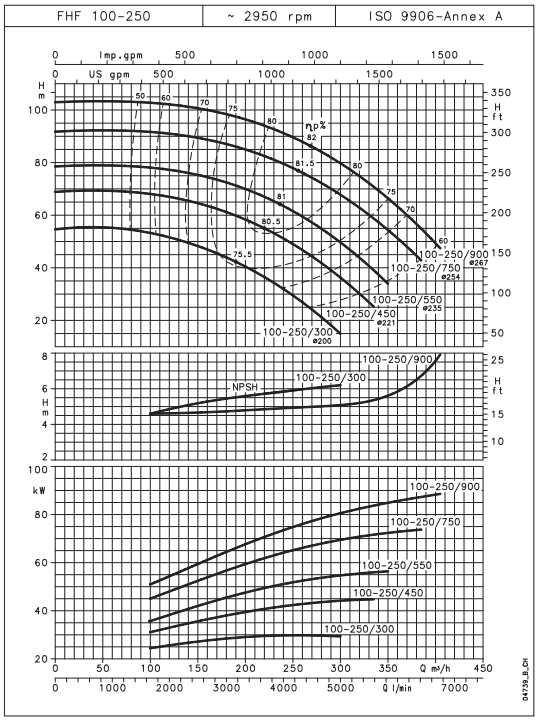


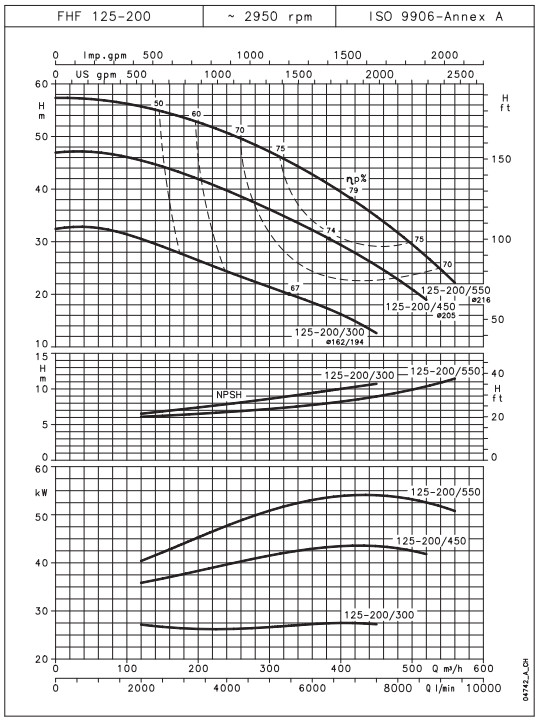
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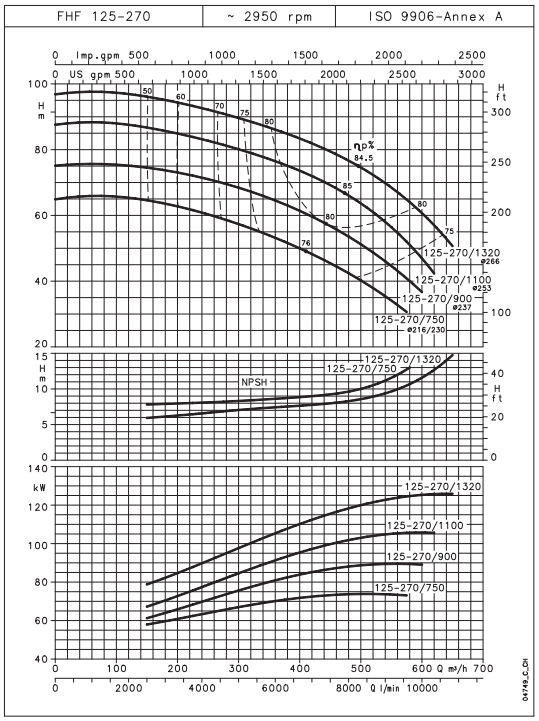
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FH SERIES
Operating characteristics at 50 Hz, 2 poles





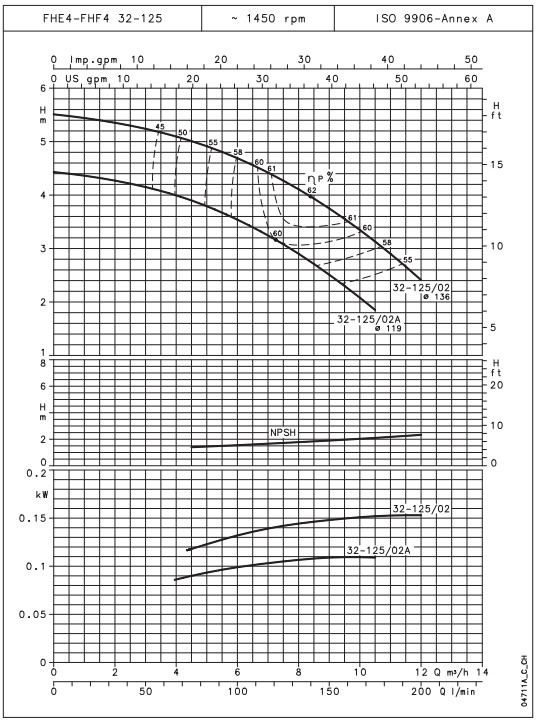


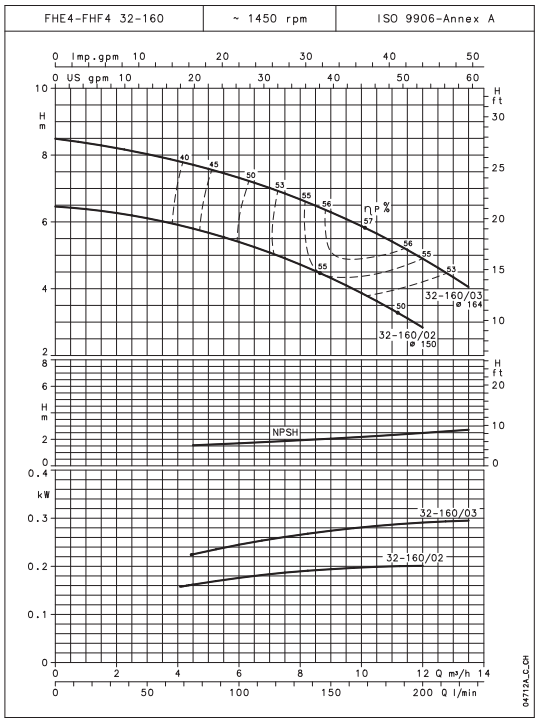


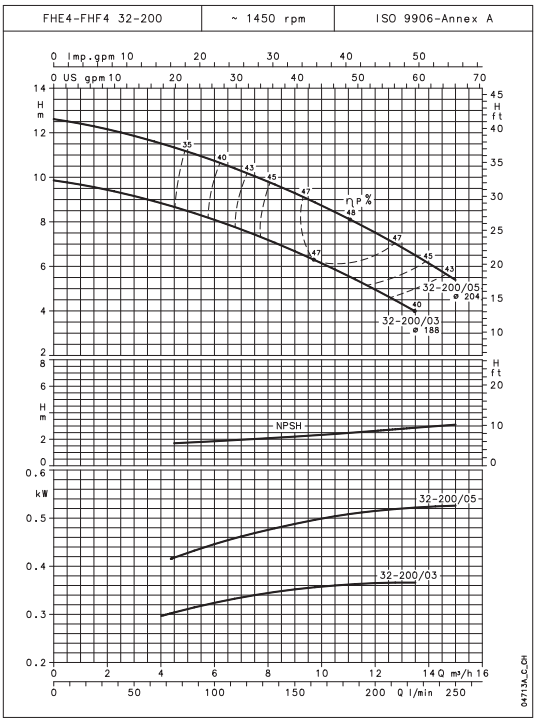
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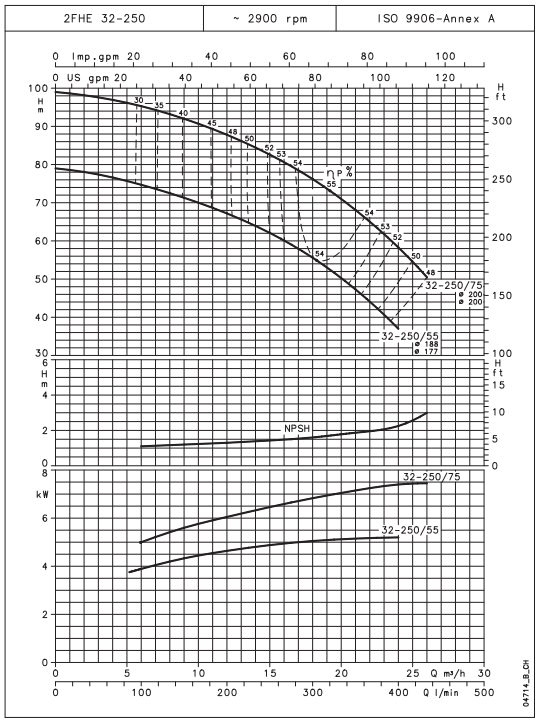
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





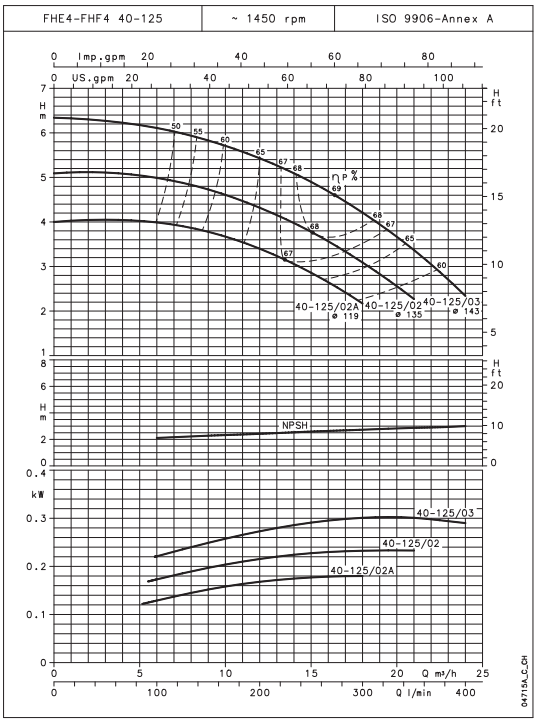


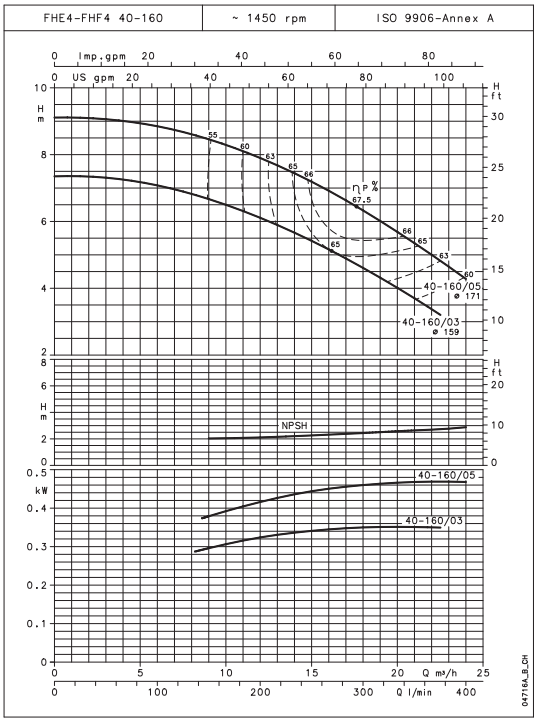


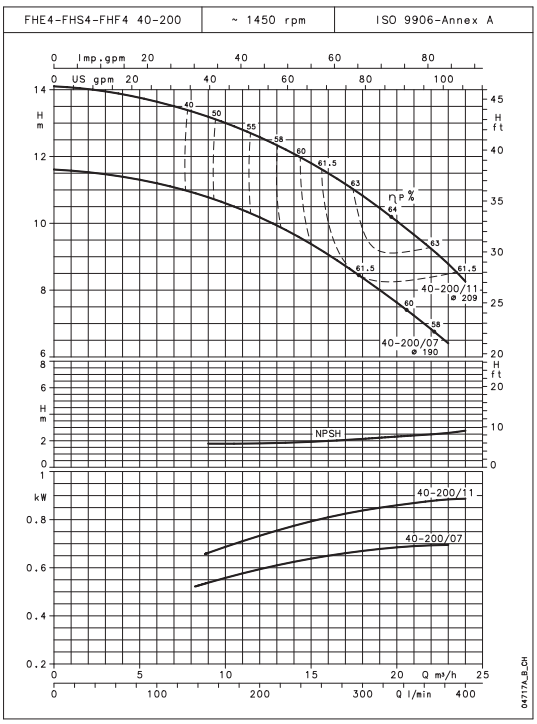
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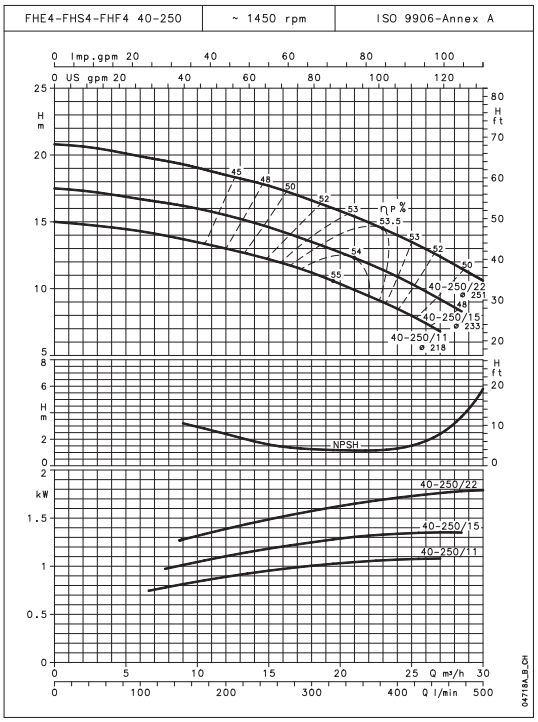
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

FH SERIES
Operating characteristics at 50 Hz, 4 poles





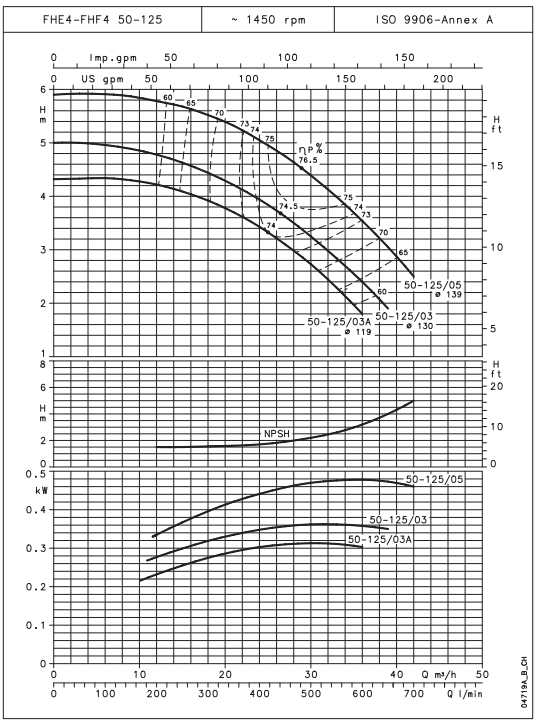


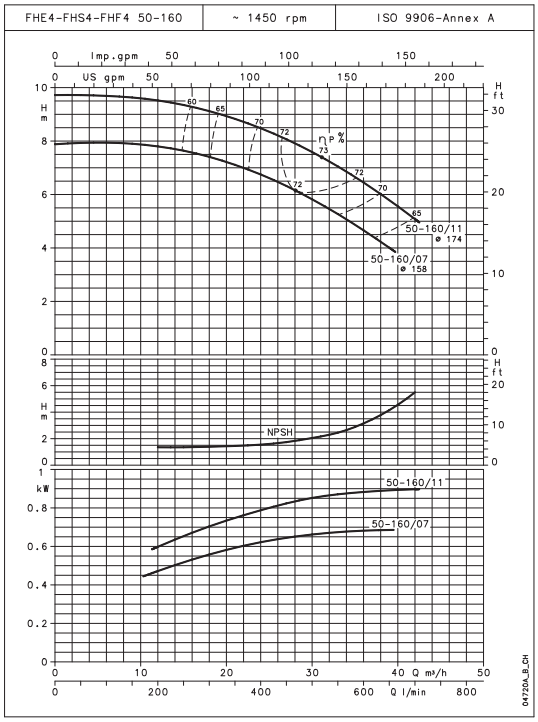


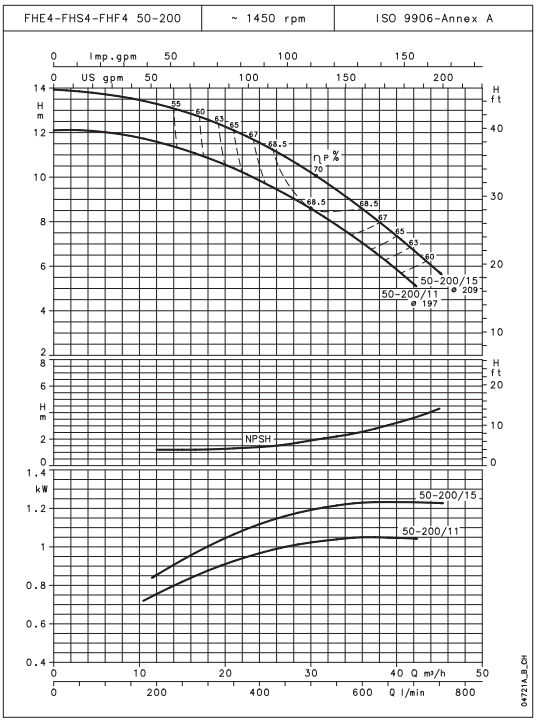
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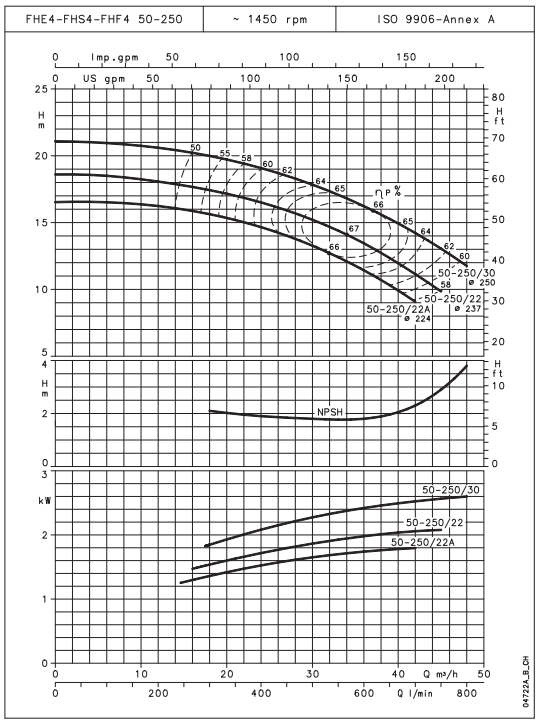
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





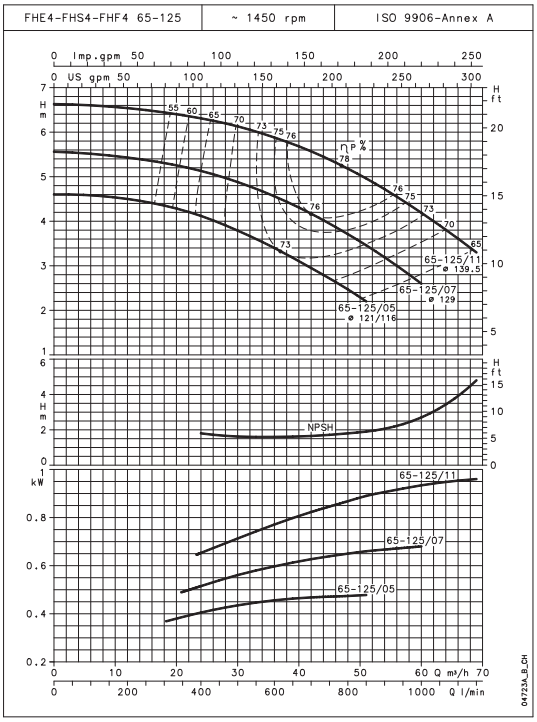


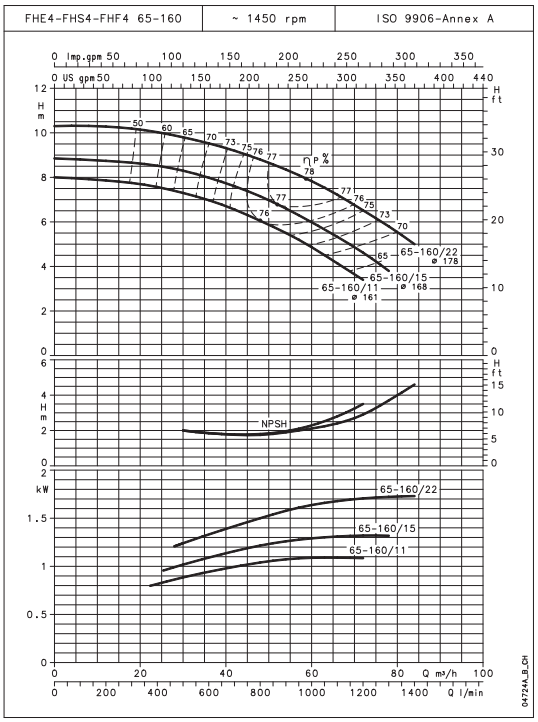


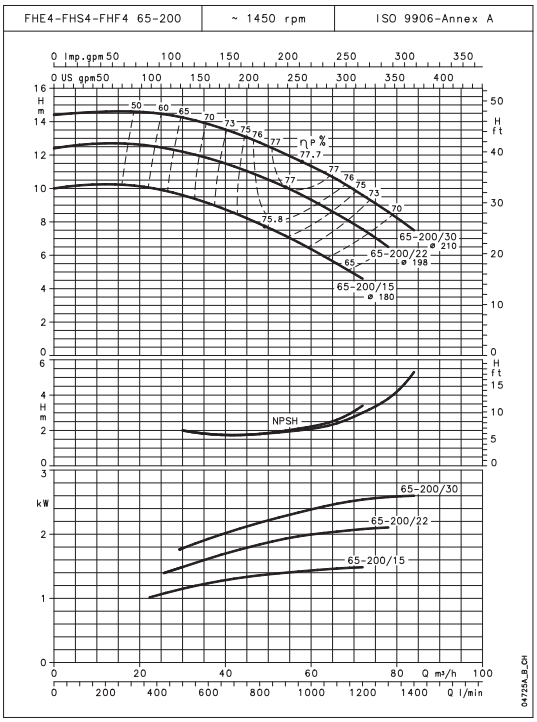
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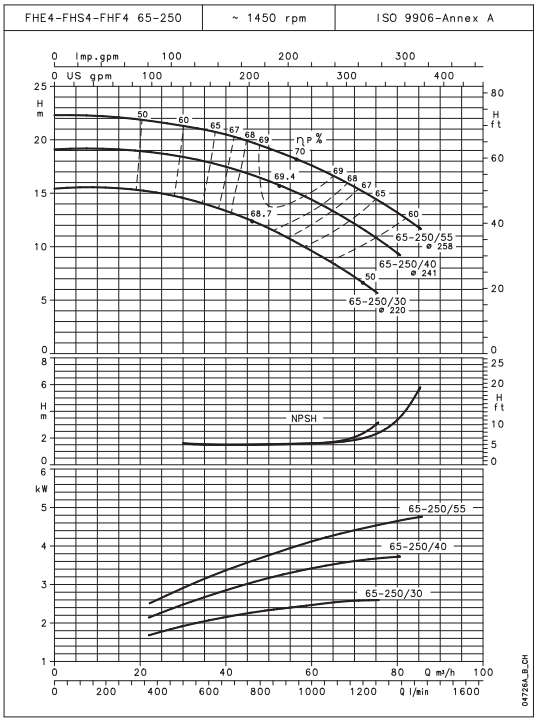
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





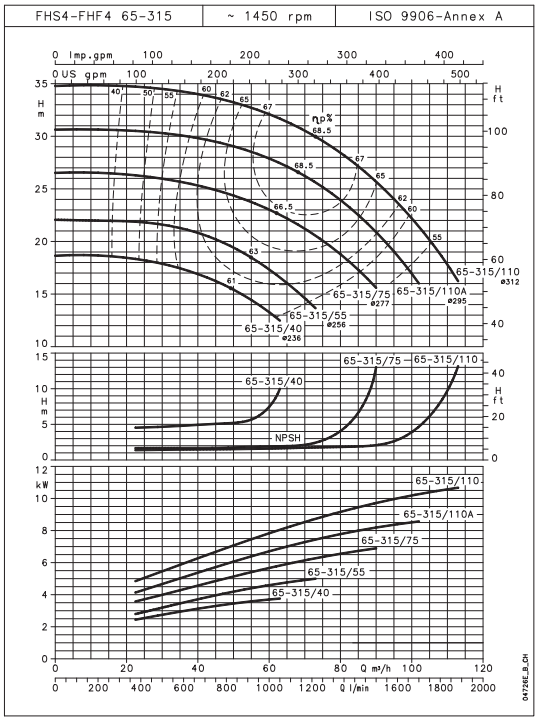


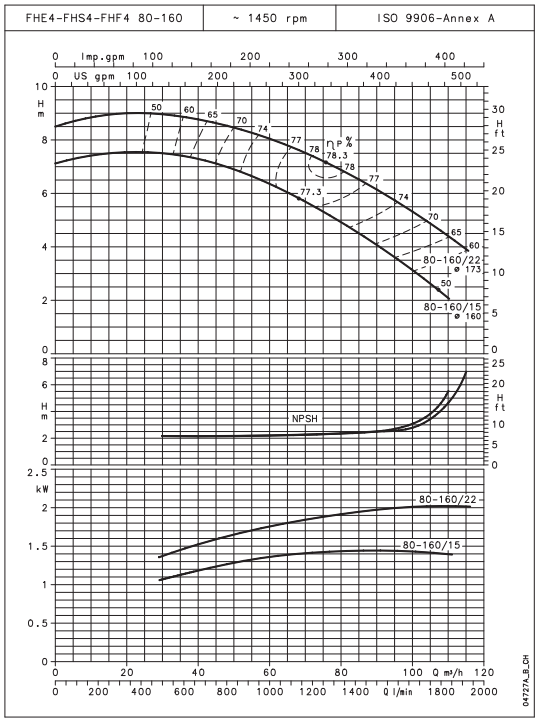


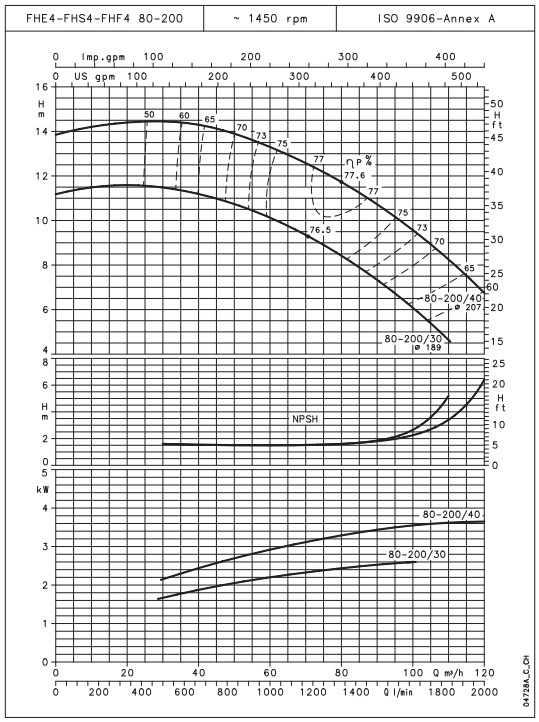
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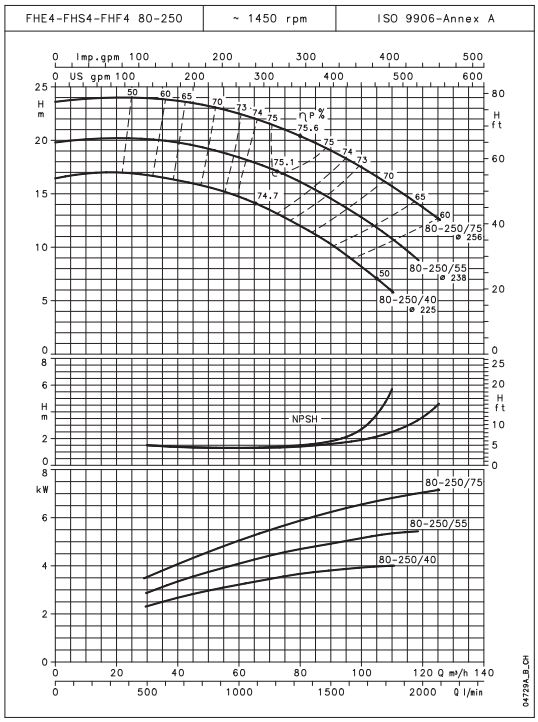
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





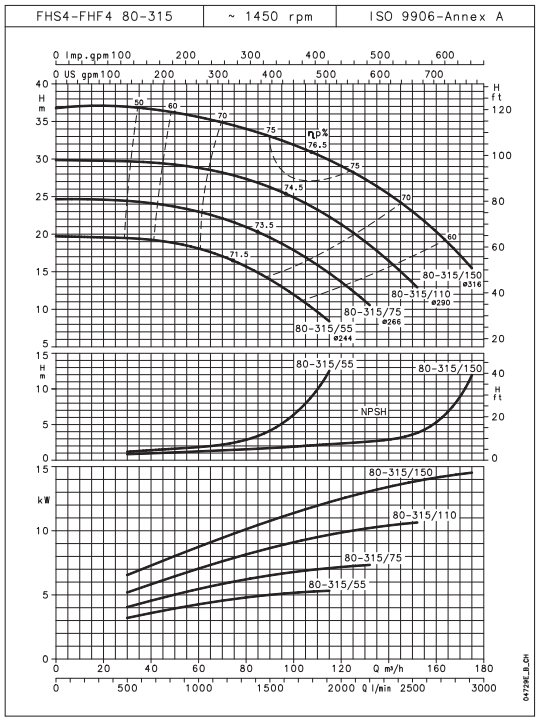


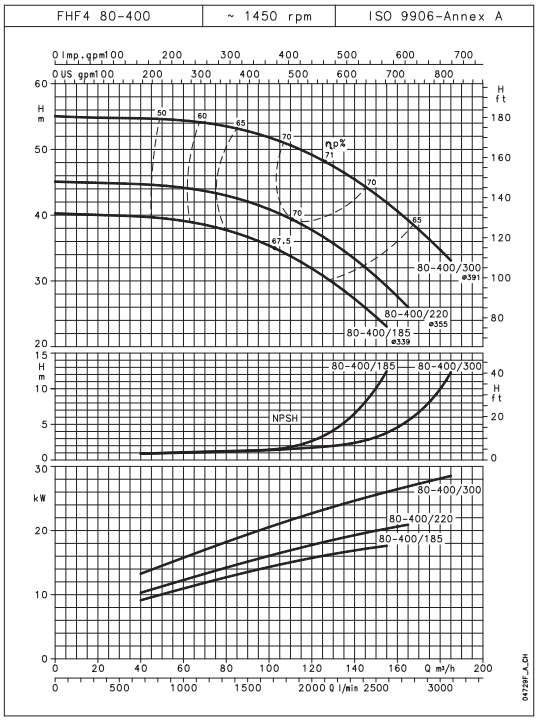


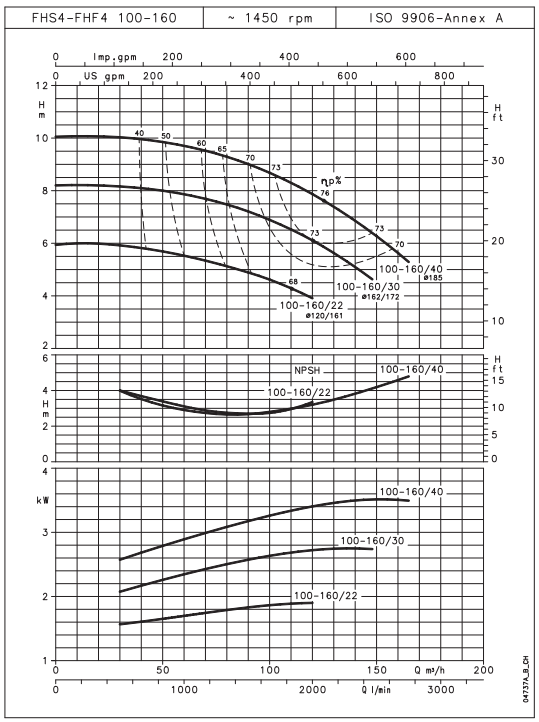
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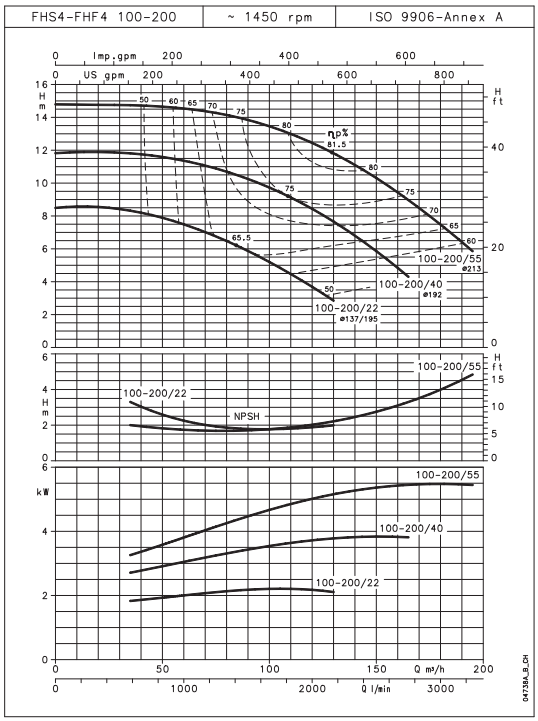
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





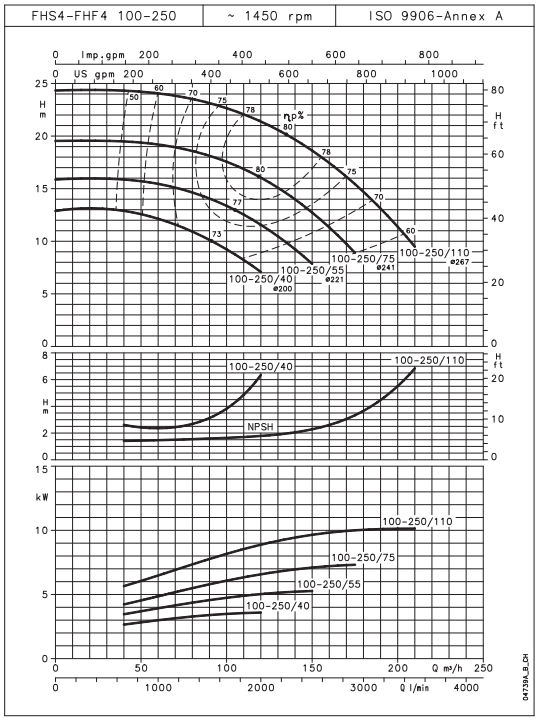


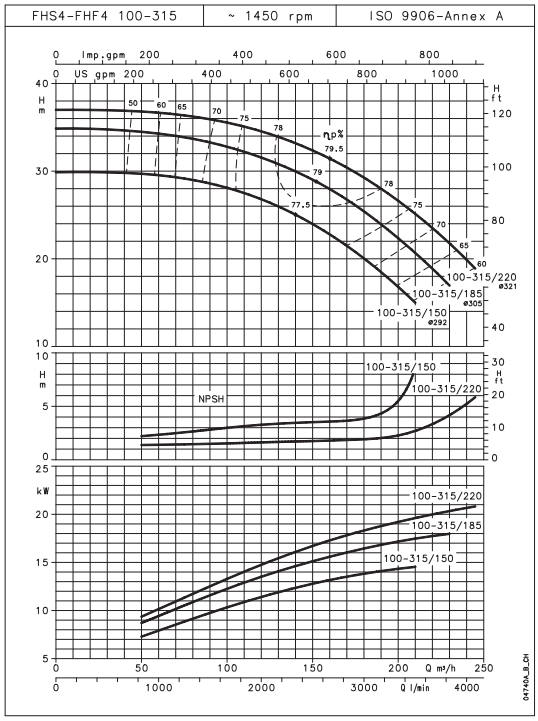


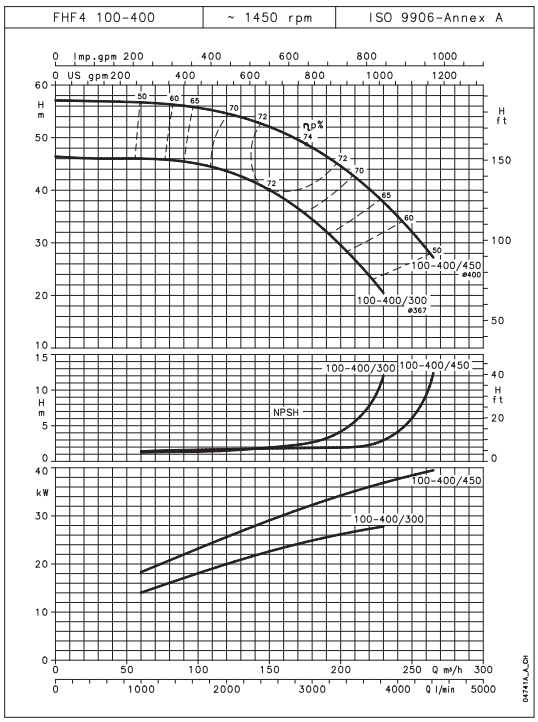
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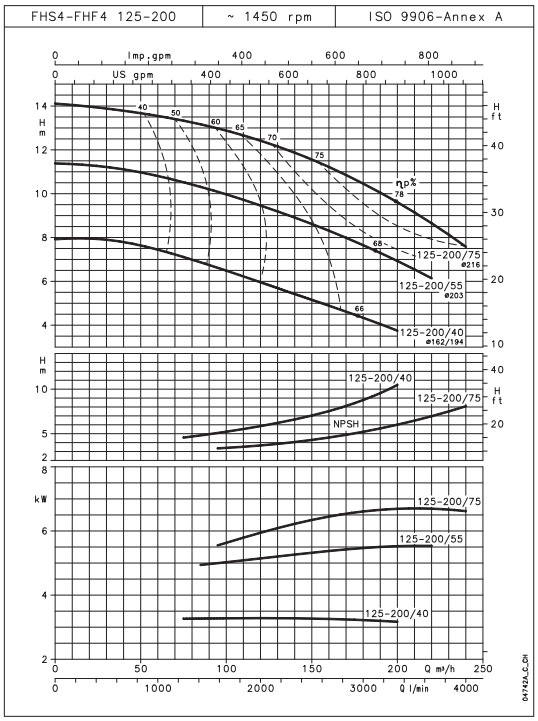
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FH SERIES
Operating characteristics at 50 Hz, 4 poles





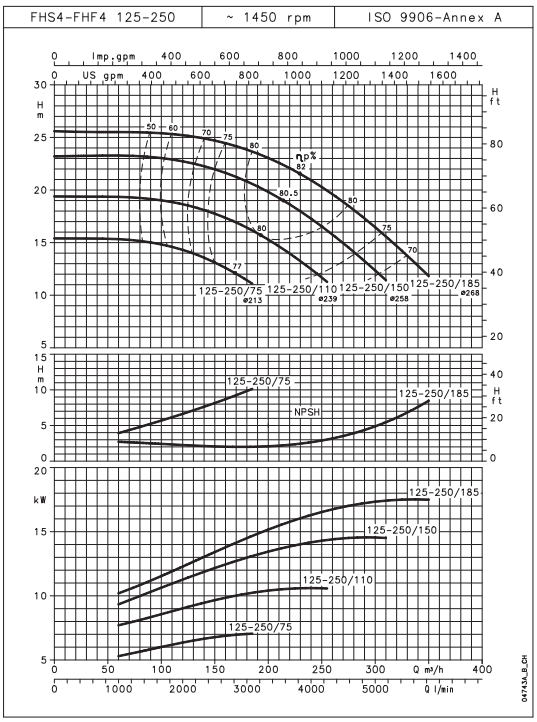


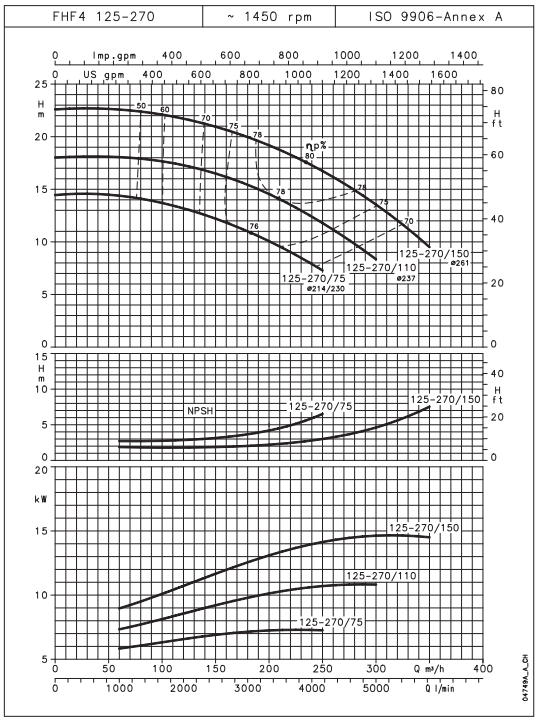


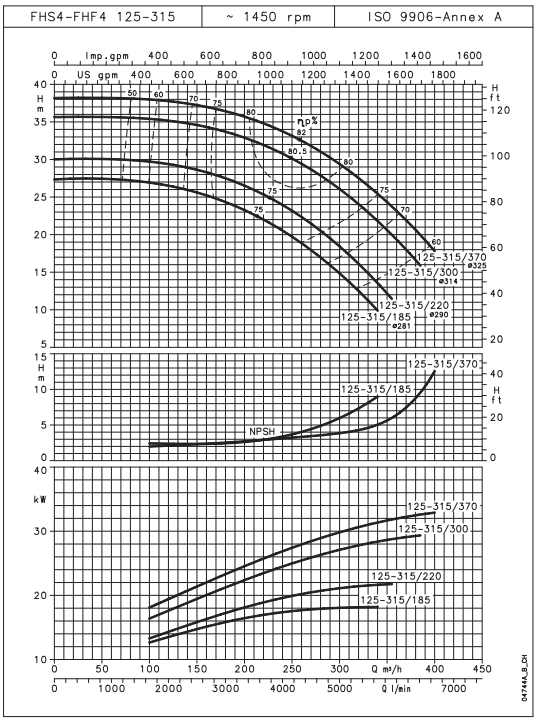
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

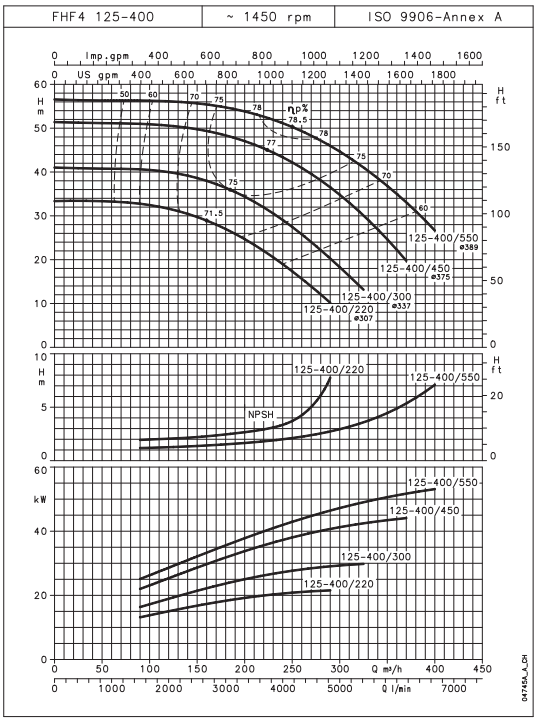
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

FH SERIES
Operating characteristics at 50 Hz, 4 poles





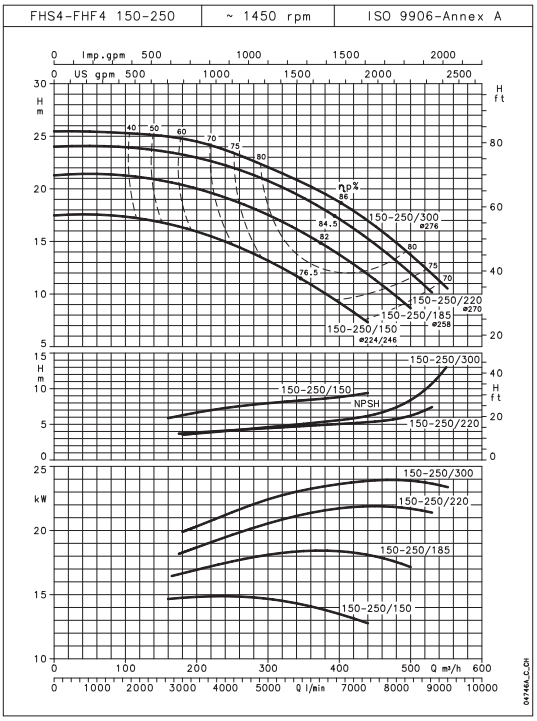


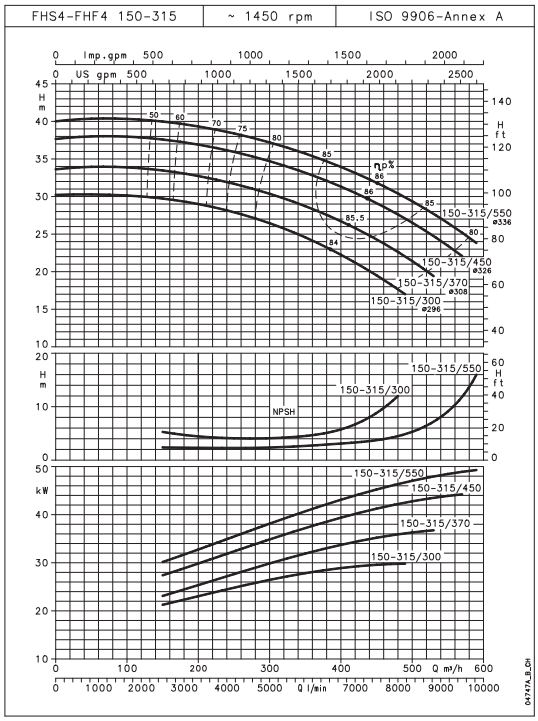


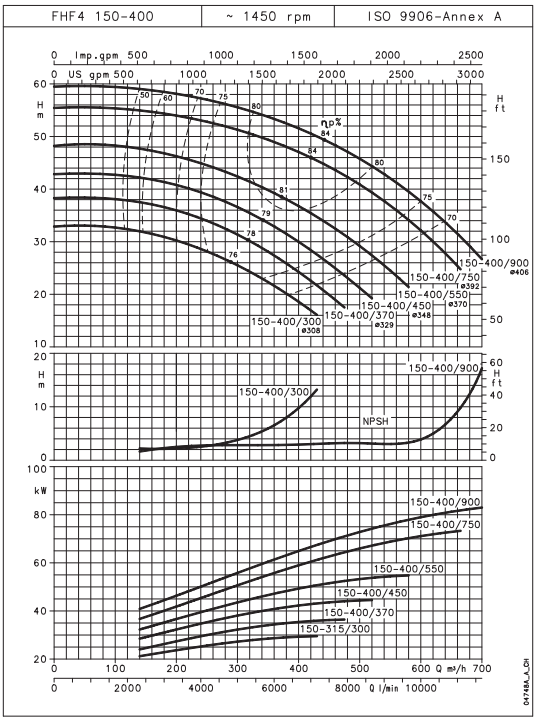
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FH SERIES
Operating characteristics at 50 Hz, 4 poles



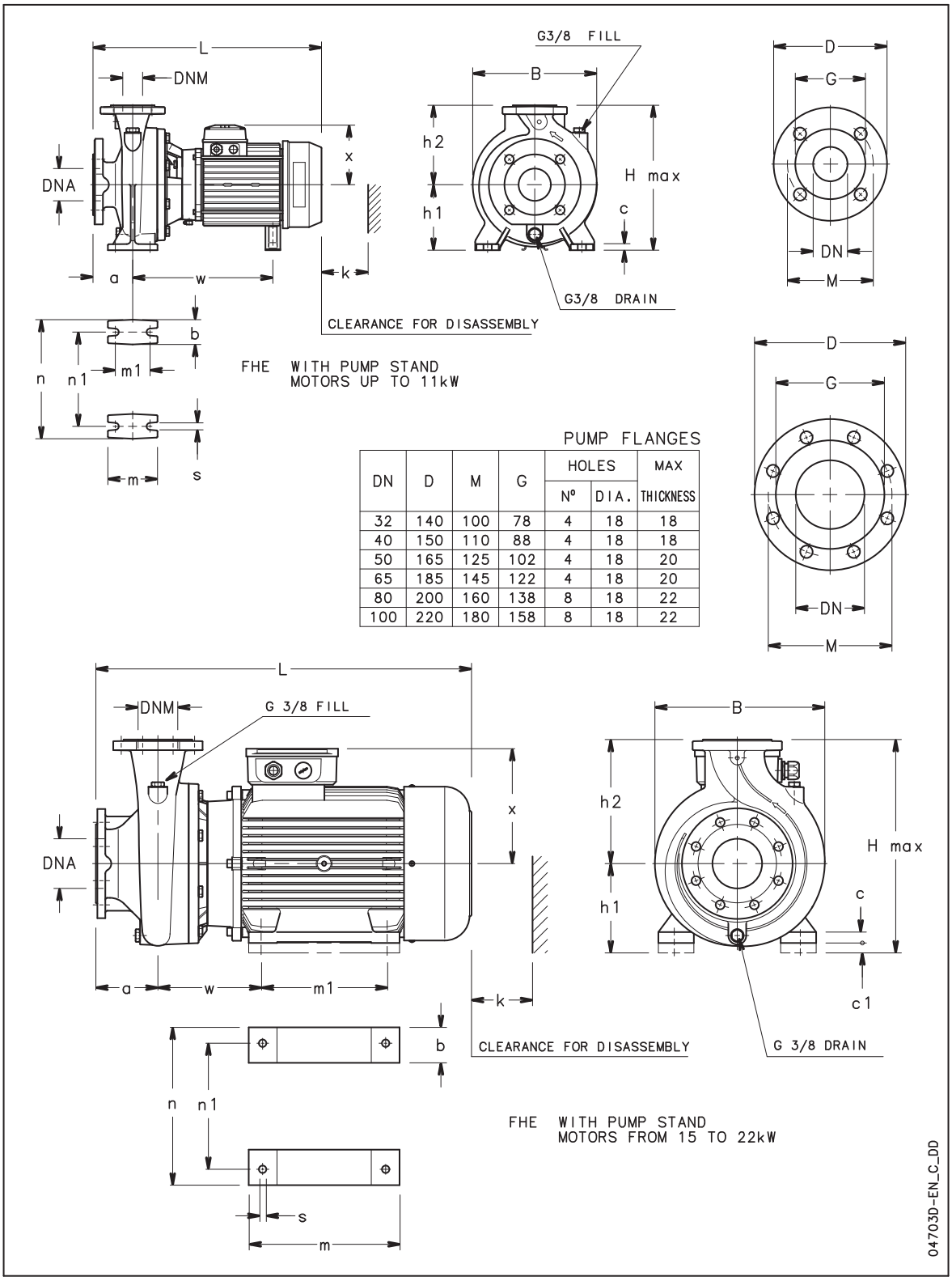




These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FHE SERIES
Dimensions and weights, 2 poles



PUMP FLANGES

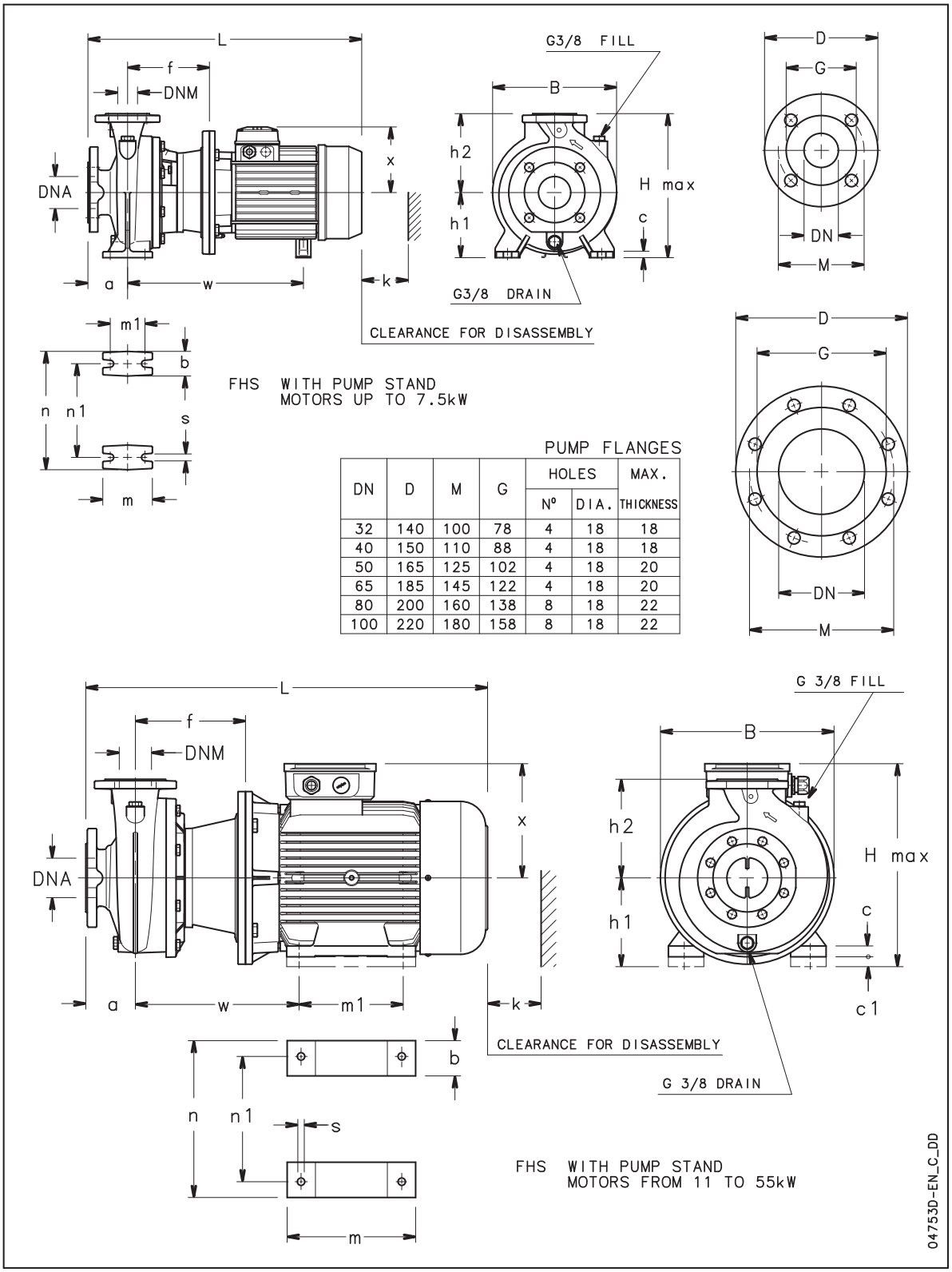
DN	D	M	G	HOLES		MAX
				Nº	DIA.	THICKNESS
32	140	100	78	4	18	18
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

FHE SERIES
Dimensions and weights, 2 poles

PUMP TYPE	DIMENSIONS (mm)																			WEIGHT
	PUMP						STAND									B	H	L	k	
	DNM	DNA	a	h2	w	x	b	c	c1	h1	m	m1	n	n1	s		max			kg
FHE 32-125/07	32	50	80	140	235	129	50	12	-	112	100	70	190	140	14	233	252	443	86	30
FHE 32-125/11	32	50	80	140	235	129	50	12	-	112	100	70	190	140	14	233	252	443	86	31
FHE 32-160/15	32	50	80	160	245	134	50	12	-	132	100	70	240	190	14	235	292	478	86	36
FHE 32-160/22	32	50	80	160	245	134	50	12	-	132	100	70	240	190	14	235	292	478	86	39
FHE 32-200/30	32	50	80	180	245	134	50	12	-	160	100	70	240	190	14	285	340	478	86	47
FHE 32-200/40	32	50	80	180	273	154	50	12	-	160	100	70	240	190	14	285	340	499	86	54
FHE 40-125/11	40	65	80	140	235	129	50	12	-	112	100	70	210	160	14	233	252	443	88	33
FHE 40-125/15	40	65	80	140	245	134	50	12	-	112	100	70	210	160	14	233	252	478	88	36
FHE 40-125/22	40	65	80	140	245	134	50	12	-	112	100	70	210	160	14	233	252	478	88	38
FHE 40-160/30	40	65	80	160	245	134	50	12	-	132	100	70	240	190	14	250	292	478	88	40
FHE 40-160/40	40	65	80	160	273	154	50	12	-	132	100	70	240	190	14	250	292	499	88	47
FHE 40-200/55	40	65	100	180	285	168	50	12	-	160	100	70	265	212	14	285	340	553	88	62
FHE 40-200/75	40	65	100	180	305	191	50	12	-	160	100	70	265	212	14	285	351	567	88	79
FHE 40-250/92	40	65	100	225	343	191	65	14	-	180	125	95	320	250	14	335	405	605	107	96
FHE 40-250/110	40	65	100	225	343	191	65	14	-	180	125	95	320	250	14	335	405	605	107	104
FHE 40-250/150	40	65	100	225	208	240	49	5	20	180	304	210	304	254	15	335	420	694	107	128
FHE 50-125/22	50	65	100	160	247	134	50	12	-	132	100	70	240	190	14	255	292	500	92	42
FHE 50-125/30	50	65	100	160	247	134	50	12	-	132	100	70	240	190	14	255	292	500	92	43
FHE 50-125/40	50	65	100	160	275	154	50	12	-	132	100	70	240	190	14	255	292	521	92	50
FHE 50-160/55	50	65	100	180	287	168	50	12	-	160	100	70	265	212	14	285	340	555	92	71
FHE 50-160/75	50	65	100	180	307	191	50	12	-	160	100	70	265	212	14	285	351	569	92	87
FHE 50-200/92	50	65	100	200	345	191	50	12	-	160	100	70	265	212	14	305	360	607	92	86
FHE 50-200/110	50	65	100	200	345	191	50	12	-	160	100	70	265	212	14	305	360	607	92	91
FHE 50-250/150	50	65	100	225	208	240	49	5	20	180	304	210	304	254	15	340	420	694	107	128
FHE 50-250/185	50	65	100	225	208	240	49	5	20	180	304	254	304	254	15	340	420	694	107	131
FHE 50-250/220	50	65	100	225	208	240	49	5	20	180	304	254	304	254	15	340	420	694	107	151
FHE 65-125/40	65	80	100	180	275	154	65	14	-	160	125	95	280	212	14	285	340	521	105	69
FHE 65-125/55	65	80	100	180	287	168	65	14	-	160	125	95	280	212	14	285	340	555	105	75
FHE 65-125/75	65	80	100	180	307	191	65	14	-	160	125	95	280	212	14	285	351	569	105	91
FHE 65-160/92	65	80	100	200	343	191	65	14	-	160	125	95	280	212	14	331	360	605	112	100
FHE 65-160/110	65	80	100	200	343	191	65	14	-	160	125	95	280	212	14	331	360	605	112	108
FHE 65-160/150	65	80	100	200	208	240	49	5	-	160	304	210	304	254	15	331	400	694	112	132
FHE 65-200/150	65	80	100	225	208	240	49	5	20	180	304	210	304	254	15	335	420	694	112	132
FHE 65-200/185	65	80	100	225	208	240	49	5	20	180	304	254	304	254	15	335	420	694	112	135
FHE 65-200/220	65	80	100	225	208	240	49	5	20	180	304	254	304	254	15	335	420	694	112	155
FHE 65-250/220	65	80	100	250	208	240	49	5	40	200	304	254	304	254	15	332	450	694	112	161
FHE 80-160/110	80	100	125	225	343	191	65	14	-	180	125	95	320	250	14	332	405	630	129	114
FHE 80-160/150	80	100	125	225	208	240	49	5	20	180	304	210	304	254	15	332	420	719	129	138
FHE 80-160/185	80	100	125	225	208	240	49	5	20	180	304	254	304	254	15	332	420	719	129	141
FHE 80-200/220	80	100	125	250	208	240	49	5	20	180	304	254	304	254	15	332	430	719	129	161

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FHS SERIES
Dimensions and weights, 2 poles

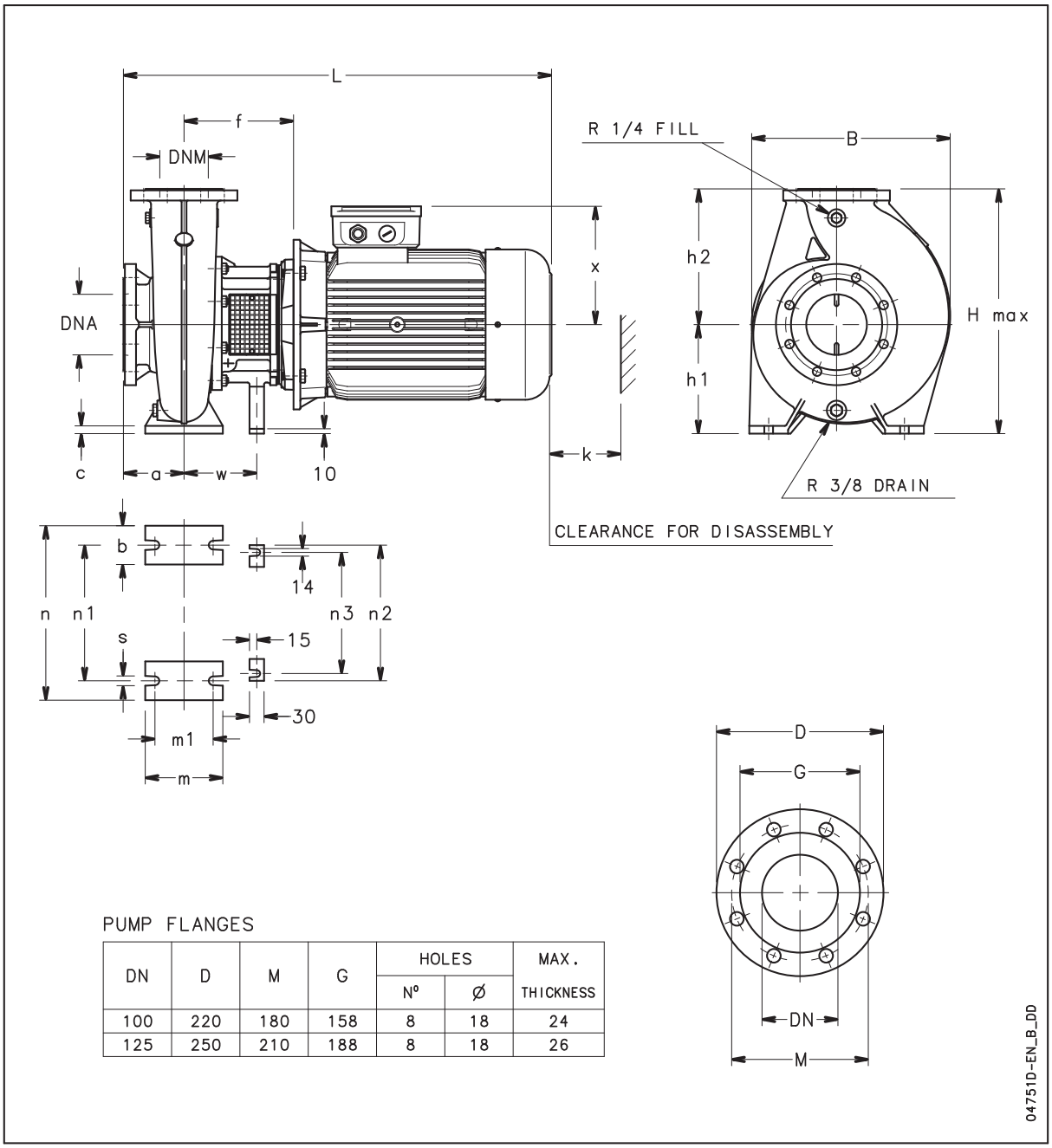


FHS SERIES
Dimensions and weights, 2 poles

PUMP TYPE	DIMENSIONS (mm)																					WEIGHT
	PUMP							STAND									B	H	L	k		
	DNM	DNA	a	f	h2	w	x	b	c	c1	h1	m	m1	n	n1	s		max				kg
FHS 32-125/07	32	50	80	155	140	290	129	50	12	-	112	100	70	190	140	14	233	252	498	86		35
FHS 32-125/11	32	50	80	155	140	290	129	50	12	-	112	100	70	190	140	14	233	252	498	86		37
FHS 32-160/15	32	50	80	155	160	300	134	50	12	-	132	100	70	240	190	14	235	292	533	86		40
FHS 32-160/22	32	50	80	155	160	300	134	50	12	-	132	100	70	240	190	14	235	292	533	86		42
FHS 32-200/30	32	50	80	165	180	310	134	50	12	-	160	100	70	240	190	14	285	340	543	86		55
FHS 32-200/40	32	50	80	165	180	338	154	50	12	-	160	100	70	240	190	14	285	340	564	86		67
FHS 40-125/11	40	65	80	155	140	290	129	50	12	-	112	100	70	210	160	14	233	252	498	88		37
FHS 40-125/15	40	65	80	155	140	300	134	50	12	-	112	100	70	210	160	14	233	252	533	88		41
FHS 40-125/22	40	65	80	155	140	300	134	50	12	-	112	100	70	210	160	14	233	252	533	88		44
FHS 40-160/30	40	65	80	165	160	310	134	50	12	-	132	100	70	240	190	14	250	292	543	88		48
FHS 40-160/40	40	65	80	165	160	338	154	50	12	-	132	100	70	240	190	14	250	292	564	88		60
FHS 40-200/55	40	65	100	192	180	399	168	50	12	-	160	100	70	265	212	14	300	340	667	88		76
FHS 40-200/75	40	65	100	192	180	397	191	50	12	-	160	100	70	265	212	14	300	351	659	88		92
FHS 40-250/110A	40	65	100	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	816	107		124
FHS 40-250/110	40	65	100	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	816	107		124
FHS 40-250/150	40	65	100	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	816	107		138
FHS 50-125/22	50	65	100	157	160	302	134	50	12	-	132	100	70	240	190	14	255	292	555	92		48
FHS 50-125/30	50	65	100	167	160	312	134	50	12	-	132	100	70	240	190	14	255	292	565	92		52
FHS 50-125/40	50	65	100	167	160	340	154	50	12	-	132	100	70	240	190	14	255	292	586	92		61
FHS 50-160/55	50	65	100	194	180	401	168	50	12	-	160	100	70	265	212	14	300	340	669	92		79
FHS 50-160/75	50	65	100	194	180	399	191	50	12	-	160	100	70	265	212	14	300	451	661	92		95
FHS 50-200/110A	50	65	100	224	200	332	240	49	5	20	180	304	210	304	254	15	350	420	818	92		116
FHS 50-200/110	50	65	100	224	200	332	240	49	5	20	180	304	210	304	254	15	350	420	818	92		116
FHS 50-250/150	50	65	100	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	816	107		138
FHS 50-250/185	50	65	100	222	225	330	240	49	5	20	180	304	254	304	254	15	350	420	816	107		141
FHS 50-250/220	50	65	100	222	225	330	240	49	5	20	180	304	254	304	254	15	350	420	816	107		161
FHS 65-125/40	65	80	100	167	180	340	154	65	14	-	160	125	95	280	212	14	285	340	586	105		75
FHS 65-125/55	65	80	100	194	180	401	168	65	14	-	160	125	95	280	212	14	300	340	669	105		83
FHS 65-125/75	65	80	100	194	180	399	191	65	14	-	160	125	95	280	212	14	300	451	661	105		99
FHS 65-160/110A	65	80	100	222	200	330	240	49	5	20	180	304	210	304	254	15	350	420	816	112		128
FHS 65-160/110	65	80	100	222	200	330	240	49	5	20	180	304	210	304	254	15	350	420	816	112		128
FHS 65-160/150	65	80	100	222	200	330	240	49	5	20	180	304	210	304	254	15	350	420	816	112		142
FHS 65-200/150	65	80	100	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	816	112		142
FHS 65-200/185	65	80	100	222	225	330	240	49	5	20	180	304	254	304	254	15	350	420	816	112		145
FHS 65-200/220	65	80	100	222	225	330	240	49	5	20	180	304	254	304	254	15	350	420	816	112		165
FHS 65-250/220	65	80	100	222	250	330	240	49	5	40	200	304	254	304	254	15	350	450	816	112		159
FHS 65-250/300	65	80	100	228	250	361	317	82	30	-	200	370	305	385	318	18	402	517	985	112		296
FHS 65-250/370	65	80	100	228	250	361	317	82	30	-	200	370	305	385	318	18	402	517	985	112		325
FHS 80-160/110	80	100	125	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	841	129		129
FHS 80-160/150	80	100	125	222	225	330	240	49	5	20	180	304	210	304	254	15	350	420	841	129		143
FHS 80-160/185	80	100	125	222	225	330	240	49	5	20	180	304	254	304	254	15	350	420	841	129		152
FHS 80-200/220	80	100	125	222	250	330	240	49	5	20	180	304	254	304	254	15	350	430	841	129		165
FHS 80-200/300	80	100	125	228	250	361	317	82	30	-	200	370	305	385	318	18	402	517	1010	129		295
FHS 80-250/370	80	100	125	228	280	361	317	82	30	-	200	370	305	385	318	18	402	517	1010	129		320
FHS 80-250/450	80	100	125	228	280	377	384	80	34	-	225	412	311	436	356	18	455	609	1099	129		424
FHS 80-250/550	80	100	125	258	280	426	402	100	43	-	250	467	349	506	406	24	550	652	1208	129		499

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FHS SERIES
Dimensions and weights, 2 poles



PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				N°	Ø	THICKNESS
100	220	180	158	8	18	24
125	250	210	188	8	18	26

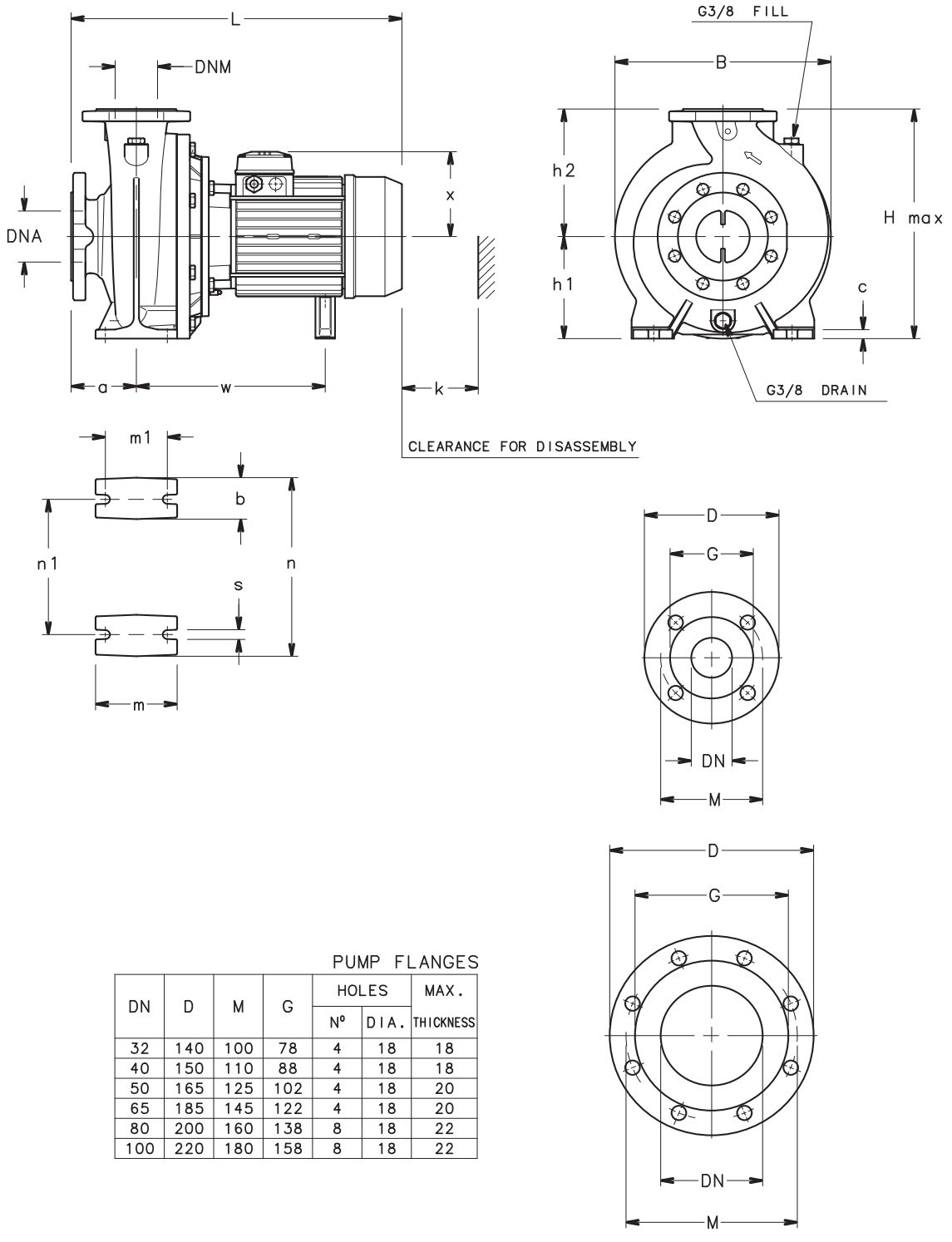
FHS SERIES
Dimensions and weights, 2 poles

PUMP TYPE	DIMENSIONS (mm)																					WEIGHT
	PUMP							STAND										B	H	L	k	
	DNM	DNA	a	f	h2	w	x	b	c	h1	m	m1	n	n1	n2	n3	s		max			kg
FHS100-160/220	100	125	125	226	280	150	240	80	16	225	160	120	360	280	280	250	18	415	505	845	143	238
FHS100-160/300	100	125	125	231	280	185	317	80	16	225	160	120	360	280	210	180	18	415	542	1013	143	444
FHS100-200/300	100	125	125	231	280	185	317	80	18	200	160	120	360	280	210	180	18	385	517	1013	153	436
FHS100-200/370	100	125	125	231	280	185	317	80	18	200	160	120	360	280	210	180	18	385	517	1013	153	467

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Black and white technical books available
see www.lowara.it

FHE4 SERIES
Dimensions and weights, 4 poles



PUMP FLANGES

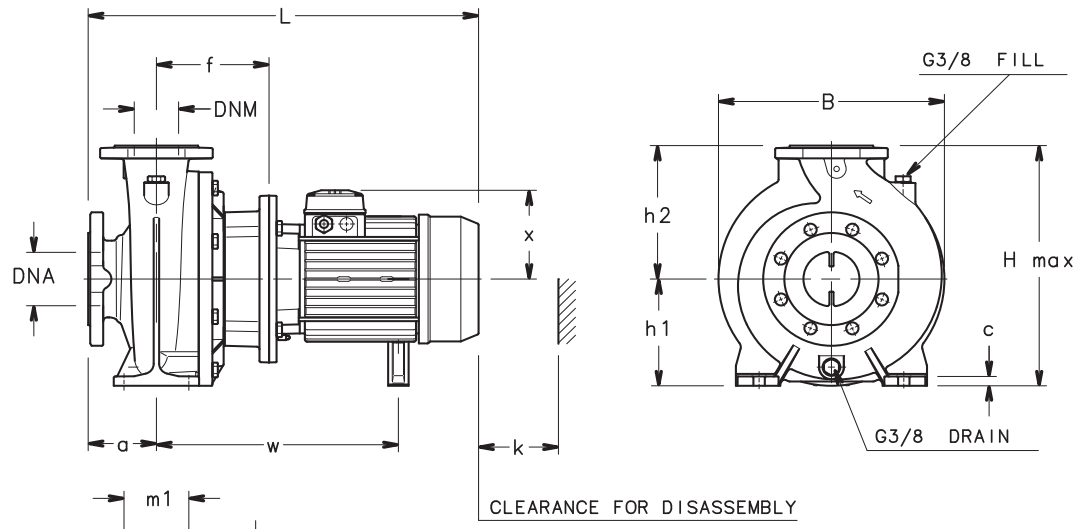
DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
32	140	100	78	4	18	18
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

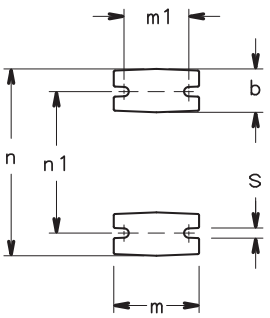
FHE4 SERIES
Dimensions and weights, 4 poles

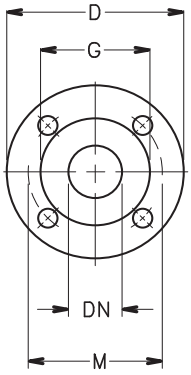
PUMP TYPE	DIMENSIONS (mm)																		WEIGHT
	PUMP TYPE						STAND								B	H	L	k	
	DNM	DNA	a	h2	w	x	b	c	h1	m	m1	n	n1	s		max			kg
FHE4 32-125/02A	32	50	80	140	215	121	50	12	112	100	70	190	140	14	233	252	411	86	25
FHE4 32-125/02	32	50	80	140	215	121	50	12	112	100	70	190	140	14	233	252	411	86	25
FHE4 32-160/02	32	50	80	160	215	121	50	12	132	100	70	240	190	14	235	292	411	86	26
FHE4 32-160/03	32	50	80	160	215	121	50	12	132	100	70	240	190	14	235	292	411	86	26
FHE4 32-200/03	32	50	80	180	215	121	50	12	160	100	70	240	190	14	285	340	411	86	35
FHE4 32-200/05	32	50	80	180	235	129	50	12	160	100	70	240	190	14	285	340	443	86	38
FHE4 40-125/02A	40	65	80	140	215	121	50	12	112	100	70	210	160	14	233	252	411	88	25
FHE4 40-125/02	40	65	80	140	215	121	50	12	112	100	70	210	160	14	233	252	411	88	25
FHE4 40-125/03	40	65	80	140	215	121	50	12	112	100	70	210	160	14	233	252	411	88	25
FHE4 40-160/03	40	65	80	160	215	121	50	12	132	100	70	240	190	14	250	292	411	88	27
FHE4 40-160/05	40	65	80	160	235	129	50	12	132	100	70	240	190	14	250	292	443	88	29
FHE4 40-200/07	40	65	100	180	-	128	50	12	160	100	70	265	212	14	285	340	431	88	40
FHE4 40-200/11	40	65	100	180	245	134	50	12	160	100	70	265	212	14	285	340	498	88	48
FHE4 40-250/11	40	65	100	225	245	134	65	14	180	125	95	320	250	14	335	405	498	107	58
FHE4 40-250/15	40	65	100	225	245	134	65	14	180	125	95	320	250	14	335	405	498	107	61
FHE4 40-250/22	40	65	100	225	285	168	65	14	180	125	95	320	250	14	335	405	522	107	69
FHE4 50-125/03A	50	65	100	160	217	121	50	12	132	100	70	240	190	14	255	292	433	92	29
FHE4 50-125/03	50	65	100	160	217	121	50	12	132	100	70	240	190	14	255	292	433	92	29
FHE4 50-125/05	50	65	100	160	237	129	50	12	132	100	70	240	190	14	255	292	465	92	32
FHE4 50-160/07	50	65	100	180	-	128	50	12	160	100	70	265	212	14	285	340	433	92	43
FHE4 50-160/11	50	65	100	180	247	134	50	12	160	100	70	265	212	14	285	340	500	92	51
FHE4 50-200/11	50	65	100	200	247	134	50	12	160	100	70	265	212	14	305	360	500	92	51
FHE4 50-200/15	50	65	100	200	247	134	50	12	160	100	70	265	212	14	305	360	500	92	54
FHE4 50-250/22A	50	65	100	225	285	168	65	14	180	125	95	320	250	14	340	405	522	107	69
FHE4 50-250/22	50	65	100	225	285	168	65	14	180	125	95	320	250	14	340	405	522	107	69
FHE4 50-250/30	50	65	100	225	285	168	65	14	180	125	95	320	250	14	340	405	553	107	72
FHE4 65-125/05	65	80	100	180	237	129	65	14	160	125	95	280	212	14	285	340	465	105	46
FHE4 65-125/07	65	80	100	180	-	128	65	14	160	125	95	280	212	14	285	340	433	105	47
FHE4 65-125/11	65	80	100	180	247	134	65	14	160	125	95	280	212	14	285	340	500	105	55
FHE4 65-160/11	65	80	100	200	245	134	65	14	160	125	95	280	212	14	331	360	498	112	61
FHE4 65-160/15	65	80	100	200	245	134	65	14	160	125	95	280	212	14	331	360	498	112	65
FHE4 65-160/22	65	80	100	200	285	168	65	14	160	125	95	280	212	14	331	360	522	112	73
FHE4 65-200/15	65	80	100	225	245	134	65	14	180	125	95	320	250	14	335	405	498	112	65
FHE4 65-200/22	65	80	100	225	285	168	65	14	180	125	95	320	250	14	335	405	522	112	73
FHE4 65-200/30	65	80	100	225	285	168	65	14	180	125	95	320	250	14	335	405	553	112	75
FHE4 65-250/30	65	80	100	250	285	168	80	16	200	160	120	360	280	18	360	450	553	112	84
FHE4 65-250/40	65	80	100	250	315	168	80	16	200	160	120	360	280	18	360	450	598	112	125
FHE4 65-250/55	65	80	100	250	343	191	80	16	200	160	120	360	280	18	360	450	605	112	130
FHE4 80-160/15	80	100	125	225	245	134	65	14	180	125	95	320	250	14	332	405	523	129	70
FHE4 80-160/22	80	100	125	225	285	168	65	14	180	125	95	320	250	14	332	405	547	129	78
FHE4 80-200/30	80	100	125	250	285	168	65	14	180	125	95	345	280	14	345	430	578	129	89
FHE4 80-200/40	80	100	125	250	315	168	65	14	180	125	95	345	280	14	345	430	623	129	123
FHE4 80-250/40	80	100	125	280	315	168	80	16	200	160	120	400	315	18	400	480	623	129	120
FHE4 80-250/55	80	100	125	280	343	191	80	16	200	160	120	400	315	18	400	480	630	129	125
FHE4 80-250/75	80	100	125	280	343	191	80	16	200	160	120	400	315	18	400	480	630	129	129

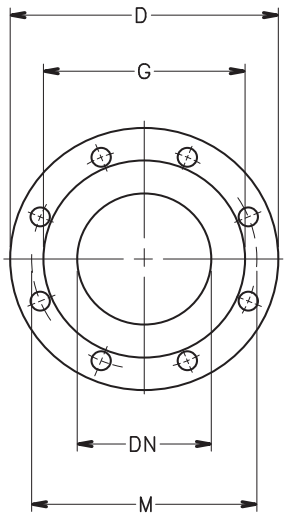
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FHS4 SERIES
Dimensions and weights, 4 poles









PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
32	140	100	78	4	18	18
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

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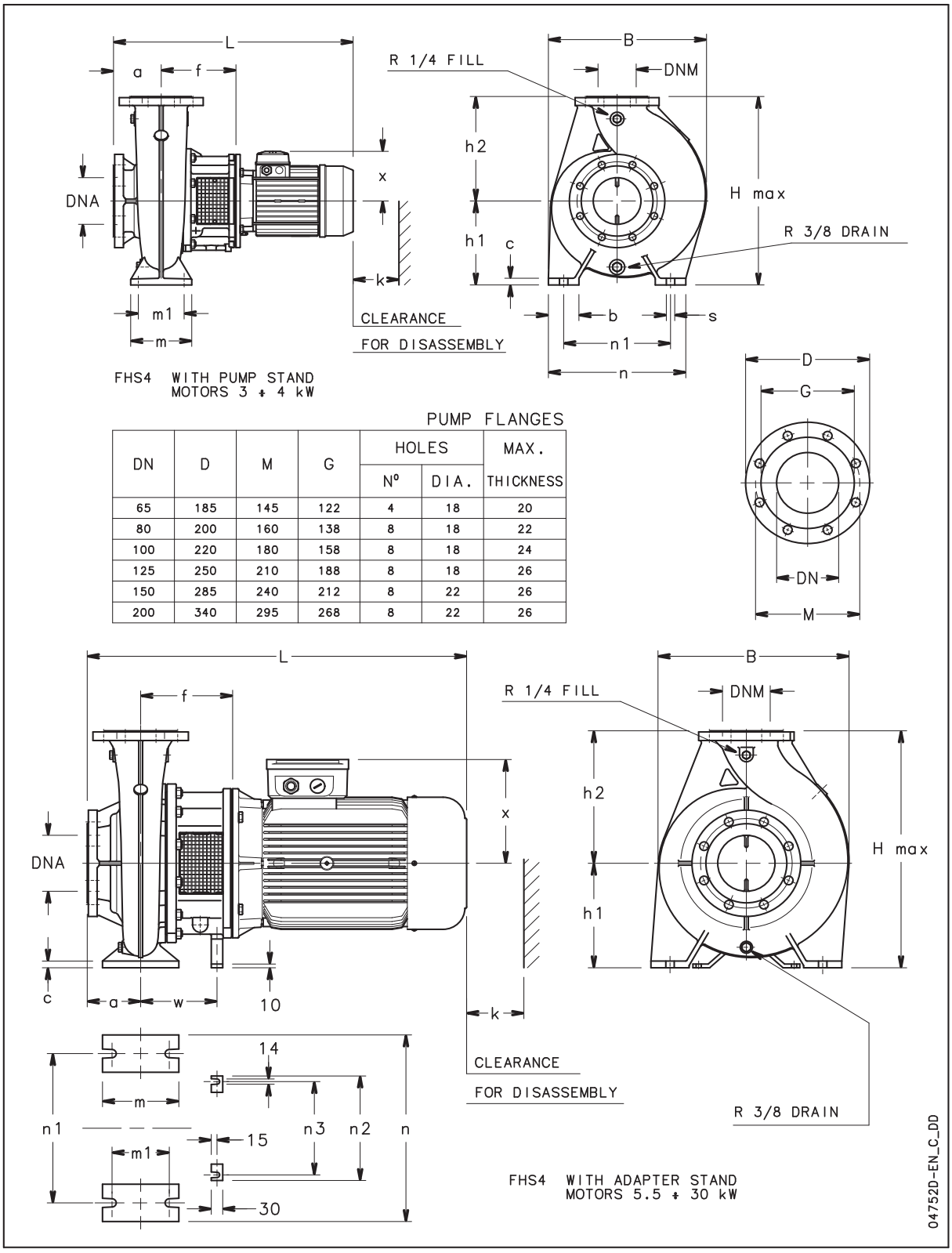
FHS4 SERIES
Dimensions and weights, 4 poles

PUMP TYPE	DIMENSIONS (mm)																				WEIGHT
	PUMP							STAND									B	H	L	k	
	DNM	DNA	a	f	h2	w	x	b	c	h1	m	m1	n	n1	s		max			kg
FHS4 40-200/07	40	65	100	155	180	-	128	50	12	160	100	70	265	212	14		285	340	486	88	45
FHS4 40-200/11	40	65	100	155	180	300	134	50	12	160	100	70	265	212	14		285	340	550	88	53
FHS4 40-250/11	40	65	100	155	225	300	134	65	14	180	125	95	320	250	14		335	405	550	107	63
FHS4 40-250/15	40	65	100	155	225	300	134	65	14	180	125	95	320	250	14		335	405	550	107	66
FHS4 40-250/22	40	65	100	165	225	350	168	65	14	180	125	95	320	250	14		335	405	587	107	75
FHS4 50-160/07	50	65	100	157	180	-	128	50	12	160	100	70	265	212	14		285	340	488	92	48
FHS4 50-160/11	50	65	100	157	180	302	134	50	12	160	100	70	265	212	14		285	340	555	92	56
FHS4 50-200/11	50	65	100	157	200	302	134	50	12	160	100	70	265	212	14		305	360	555	92	56
FHS4 50-200/15	50	65	100	157	200	302	134	50	12	160	100	70	265	212	14		305	360	555	92	59
FHS4 50-250/22A	50	65	100	165	225	320	168	65	14	180	125	95	320	250	14		340	405	587	107	75
FHS4 50-250/22	50	65	100	165	225	320	168	65	14	180	125	95	320	250	14		340	405	587	107	75
FHS4 50-250/30	50	65	100	165	225	320	168	65	14	180	125	95	320	250	14		340	405	618	107	78
FHS4 65-125/05	65	80	100	157	180	292	129	65	14	160	125	95	280	212	14		285	340	520	105	51
FHS4 65-125/07	65	80	100	157	180	-	128	65	14	160	125	95	280	212	14		285	340	488	105	54
FHS4 65-125/11	65	80	100	157	180	302	134	65	14	160	125	95	280	212	14		285	340	555	105	60
FHS4 65-160/11	65	80	100	155	200	300	134	65	14	160	125	95	280	212	14		331	360	553	112	67
FHS4 65-160/15	65	80	100	155	200	300	134	65	14	160	125	95	280	212	14		331	360	553	112	70
FHS4 65-160/22	65	80	100	165	200	350	168	65	14	160	125	95	280	212	14		331	360	587	112	79
FHS4 65-200/15	65	80	100	155	225	300	134	65	14	180	125	95	320	250	14		335	405	553	112	70
FHS4 65-200/22	65	80	100	165	225	350	168	65	14	180	125	95	320	250	14		335	405	587	112	79
FHS4 65-200/30	65	80	100	165	225	350	168	65	14	180	125	95	320	250	14		335	405	618	112	82
FHS4 65-250/30	65	80	100	165	250	350	168	80	16	200	160	120	360	280	18		360	450	618	112	88
FHS4 65-250/40	65	80	100	165	250	380	168	80	16	200	160	120	360	280	18		360	450	663	112	121
FHS4 65-250/55	65	80	100	192	250	435	191	80	16	200	160	120	360	280	18		360	450	697	112	123
FHS4 80-160/15	80	100	125	155	225	300	134	65	14	180	125	95	320	250	14		332	405	578	129	77
FHS4 80-160/22	80	100	125	165	225	350	168	65	14	180	125	95	320	250	14		332	405	612	129	85
FHS4 80-200/30	80	100	125	165	250	350	168	65	14	180	125	95	345	280	14		345	430	643	129	91
FHS4 80-200/40	80	100	125	165	250	380	168	65	14	180	125	95	345	280	14		345	430	688	129	124
FHS4 80-250/40	80	100	125	165	280	380	168	80	16	200	160	120	400	315	18		400	480	688	129	130
FHS4 80-250/55	80	100	125	192	280	435	191	80	16	200	160	120	400	315	18		400	480	722	129	132
FHS4 80-250/75	80	100	125	192	280	435	191	80	16	200	160	120	400	315	18		400	480	722	129	137

fh-fhs4-4p50-en_d_td



FHS4 SERIES
Dimensions and weights, 4 poles



DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	24
125	250	210	188	8	18	26
150	285	240	212	8	22	26
200	340	295	268	8	22	26

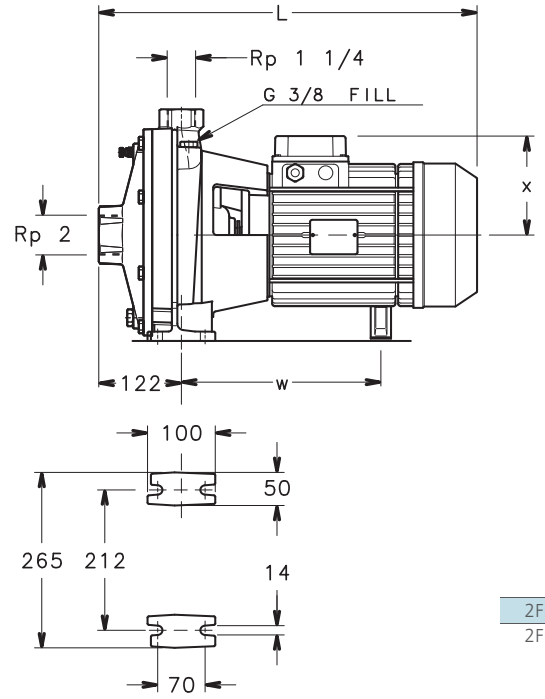
FHS4 SERIES
Dimensions and weights, 4 poles

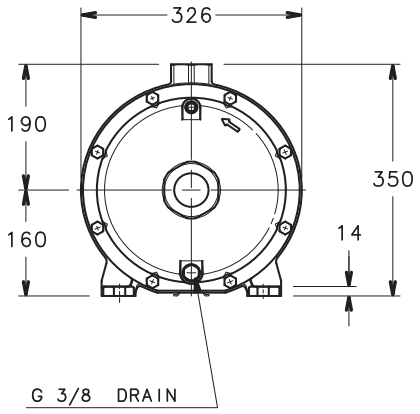
PUMP TYPE	DIMENSIONS (mm)																					WEIGHT
	PUMP							STAND										B	H	L	k	
	DNM	DNA	a	f	h2	w	x	b	c	h1	m	m1	n	n1	n2	n3	s		max			kg
FHS4 65-315/75	65	80	125	196	280	150	191	80	14	225	160	120	400	315	210	180	18	434	505	726	160	181
FHS4 65-315/110	65	80	125	226	280	150	240	80	14	225	160	120	400	315	210	180	18	434	505	845	160	263
FHS4 80-315/110	80	100	125	226	315	150	240	80	16	250	160	120	400	315	210	180	18	450	565	845	160	269
FHS4 80-315/150	80	100	125	226	315	150	240	80	16	250	160	120	400	315	210	180	18	450	565	845	160	278
FHS4 100-160/30	100	125	125	196	280	-	168	80	16	225	160	120	360	280	-	-	19	415	505	674	143	119
FHS4 100-200/40	100	125	125	196	280	-	168	80	18	200	160	120	360	280	-	-	19	385	480	719	153	126
FHS4 100-200/55	100	125	125	196	280	150	191	80	18	200	160	120	360	280	210	180	18	385	480	726	153	150
FHS4 100-250/75	100	125	140	196	280	150	191	80	16	225	160	120	400	315	210	180	18	425	505	741	150	184
FHS4 100-250/110	100	125	140	226	280	150	240	80	16	225	160	120	400	315	210	180	18	425	505	860	150	266
FHS4 100-315/150	100	125	140	226	315	150	240	80	16	250	160	120	400	315	210	180	18	486	565	860	160	287
FHS4 100-315/185	100	125	140	226	315	150	279	80	16	250	160	120	400	315	210	180	18	486	565	920	160	346
FHS4 100-315/220	100	125	140	226	315	150	279	80	16	250	160	120	400	315	210	180	18	486	565	958	160	356
FHS4 125-200/55	125	150	140	211	315	165	191	80	16	250	160	120	400	315	280	250	18	469	565	756	160	181
FHS4 125-200/75	125	150	140	211	315	165	191	80	16	250	160	120	400	315	280	250	18	469	565	756	160	186
FHS4 125-250/110	125	150	140	226	355	150	240	80	16	250	160	120	400	315	280	250	18	493	605	860	158	268
FHS4 125-250/150	125	150	140	226	355	150	240	80	16	250	160	120	400	315	280	250	18	493	605	860	158	277
FHS4 125-250/185	125	150	140	226	355	150	279	80	16	250	160	120	400	315	280	250	18	493	605	920	158	337
FHS4 125-315/220	125	150	140	241	355	200	279	100	18	280	200	150	500	400	280	250	22	520	635	973	171	408
FHS4 125-315/300	125	150	140	241	355	200	317	100	18	280	200	150	500	400	280	250	22	520	635	1038	171	505
FHS4 150-250/150	150	200	160	246	375	200	240	100	18	280	200	150	500	400	280	250	22	550	655	900	181	340
FHS4 150-250/185	150	200	160	246	375	200	279	100	18	280	200	150	500	400	280	250	22	550	655	960	181	399
FHS4 150-250/220	150	200	160	246	375	200	279	100	18	280	200	150	500	400	280	250	22	550	655	998	181	409
FHS4 150-250/300	150	200	160	246	375	200	317	100	18	280	200	150	500	400	280	250	22	550	655	1063	181	506
FHS4 150-315/300	150	200	160	241	400	200	317	100	18	280	200	150	550	450	280	250	22	587	680	1058	186	524

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2FHE SERIES
Dimensions and weights, 2 poles



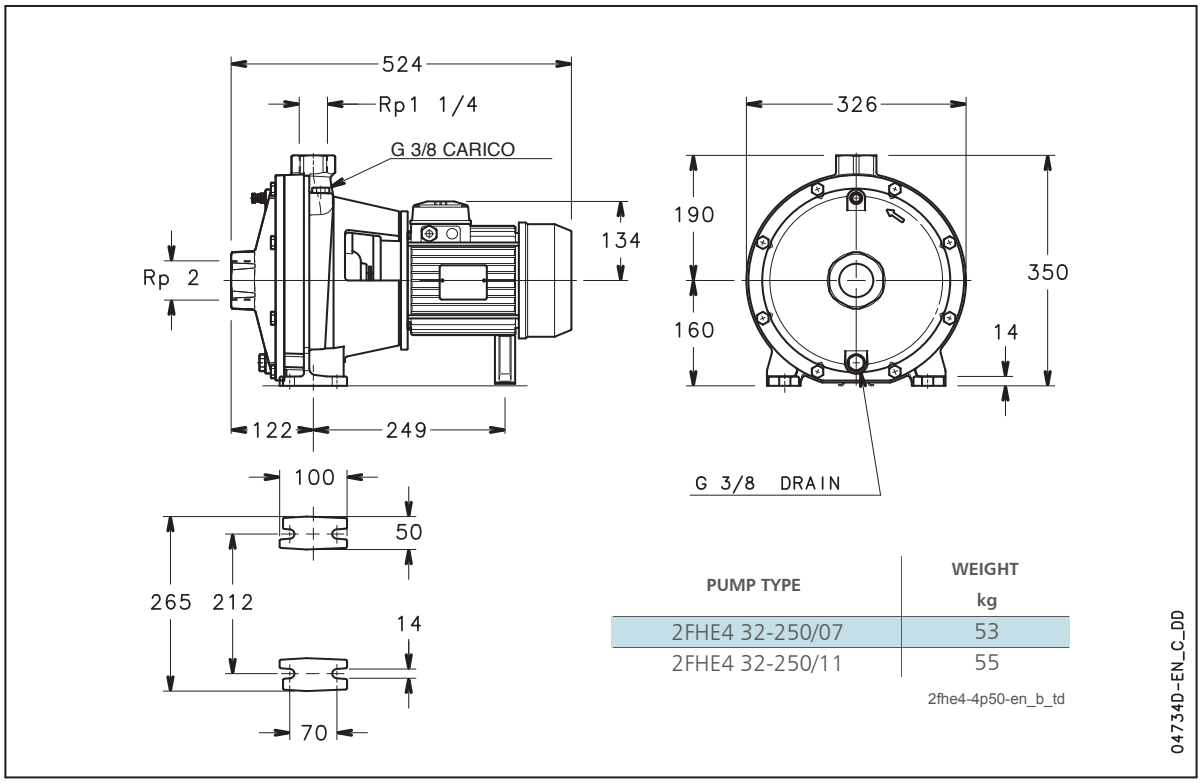


PUMP TYPE	DIMENSIONS (mm)			WEIGHT
	L	w	x	kg
2FHE 32-250/55	572	282	168	74
2FHE 32-250/75	607	323	191	90

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2FHE SERIES
Dimensions and weights, 4 poles



PUMP TYPE	WEIGHT kg
2FHE4 32-250/07	53
2FHE4 32-250/11	55

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SH Series

Centrifugal pumps entirely made of AISI 316 stainless steel according to EN 733 (ex DIN 24255). SH series pumps are used for water and clean liquid circulation in heating, ventilating and air conditioning systems, and for pressure boosting in industrial applications.

Available versions:
SHE Close-coupled with special motor shaft extension.

SHS With stub shaft and standard motor.

SHF With shaft extension, support, flexible coupling, base and standard motor according to EN 733 (ex DIN 24255).

Specifications

Delivery: up to 240 m^3/h
Head: up to 110 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.25 kW to 75 kW
Maximum operating pressure: 12 bar PN12
Temperature of pumped liquid: -10°C to +120°C
Insulation class: 155 (F)
Protection: IP55

Materials

Pump body: AISI 316 stainless steel
Impeller: AISI 316 stainless steel
Seal holder: AISI 316 stainless steel
Adapter: Aluminium or Cast iron
Mechanical seal: Ceramic/Carbon/FPM
Fill and drain plugs: AISI 316 stainless steel
Elastomers: FPM

Applications

Water distribution

Heating, ventilation

Pressure boosting

Irrigation

Industrial washing equipment

Swimming pools

Cooling and chilling

General industry

Water treatment

Heat recovery

Filtration systems

Auxiliary equipment

Available on request:
– different voltages and frequencies
– special materials for the mechanical seals and gaskets
– SFH with flexible coupling with spacer
– version with Hydrovar frequency converter



For a complete list of technical information, consult www.lowara.com

List of models, SH SERIES 50 Hz
2 poles

SIZE	kW	VERSION			
		SHEM	SHE	SHS	SHF
25-125/07	0,75	•	•	•	•
25-125/11	1,1	•	•	•	•
25-160/15	1,5	•	•	•	•
25-160/22	2,2	•	•	•	•
25-200/30	3	–	•	•	•
25-200/40	4	–	•	•	•
25-250/55	5,5	–	•	•	•
25-250/75	7,5	–	•	•	•
25-250/110	11	–	•	•	•
32-125/07	0,75	•	•	•	•
32-125/11	1,1	•	•	•	•
32-160/15	1,5	•	•	•	•
32-160/22	2,2	•	•	•	•
32-200/30	3	–	•	•	•
32-200/40	4	–	•	•	•
32-250/55	5,5	–	•	•	•
32-250/75	7,5	–	•	•	•
32-250/110	11	–	•	•	•
40-125/11	1,1	•	•	•	•
40-125/15	1,5	•	•	•	•
40-125/22	2,2	•	•	•	•
40-160/30	3	–	•	•	•
40-160/40	4	–	•	•	•
40-200/55	5,5	–	•	•	•
40-200/75	7,5	–	•	•	•
40-250/92	9,2	–	•	–	–
40-250/110A	11	–	–	•	•
40-250/110	11	–	•	•	•
40-250/150	15	–	•	•	•
50-125/22	2,2	•	•	•	•
50-125/30	3	–	•	•	•
50-125/40	4	–	•	•	•
50-160/55	5,5	–	•	•	•
50-160/75	7,5	–	•	•	•
50-200/92	9,2	–	•	–	–
50-200/110A	11	–	–	•	•
50-200/110	11	–	•	•	•
50-250/150	15	–	•	•	•
50-250/185	18,5	–	•	•	•
50-250/220	22	–	•	•	•
65-160/40	4	–	•	•	•
65-160/55	5,5	–	•	•	•
65-160/75	7,5	–	•	•	•
65-160/92	9,2	–	•	–	–
65-160/110A	11	–	–	•	•
65-160/110	11	–	•	•	•
65-200/150	15	–	•	•	•
65-200/185	18,5	–	•	•	•
65-200/220	22	–	•	•	•
65-250/300	30	–	–	•	•
65-250/370	37	–	–	•	•
80-160/110	11	–	•	•	•
80-160/150	15	–	•	•	•
80-160/185	18,5	–	•	•	•
80-200/220	22	–	•	•	•
80-200/300	30	–	–	•	•
80-200/370	37	–	–	•	•
80-250/450	45	–	–	–	•
80-250/550	55	–	–	–	•
80-250/750	75	–	–	–	•

• = Available

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4 poles

SIZE	kW	VERSION		
		SHE4	SHS4	SHF4
25-125/02A	0,25	•	–	•
25-125/02	0,25	•	–	•
25-160/02	0,25	•	–	•
25-160/03	0,37	•	–	•
25-200/03	0,37	•	–	•
25-200/05	0,55	•	–	•
25-250/07	0,75	•	•	•
25-250/11	1,1	•	•	•
25-250/15	1,5	•	•	•
32-125/02A	0,25	•	–	•
32-125/02	0,25	•	–	•
32-160/02	0,25	•	–	•
32-160/03	0,37	•	–	•
32-200/03	0,37	•	–	•
32-200/05	0,55	•	–	•
32-250/07	0,75	•	•	•
32-250/11	1,1	•	•	•
32-250/15	1,5	•	•	•
40-125/02A	0,25	•	–	•
40-125/02	0,25	•	–	•
40-125/03	0,37	•	–	•
40-160/03	0,37	•	–	•
40-160/05	0,5	•	–	•
40-200/07	0,75	•	•	•
40-200/11	1,1	•	•	•
40-250/11	1,1	•	•	•
40-250/15	1,5	•	•	•
40-250/22	2,2	•	•	•
50-125/03A	0,37	•	–	•
50-125/03	0,37	•	–	•
50-125/05	0,5	•	–	•
50-160/07	0,75	•	•	•
50-160/11	1,1	•	•	•
50-200/11	1,1	•	•	•
50-200/15	1,5	•	•	•
50-250/22A	2,2	•	•	•
50-250/22	2,2	•	•	•
50-250/30	3	•	•	•
65-160/05	0,5	•	•	•
65-160/07	0,75	•	•	•
65-160/11A	1,1	•	•	•
65-160/11	1,1	•	•	•
65-160/15	1,5	•	•	•
65-200/15	1,5	•	•	•
65-200/22	2,2	•	•	•
65-200/30	3	•	•	•
65-250/40	4	•	•	•
65-250/55	5,5	•	•	•
80-160/15	1,5	•	•	•
80-160/22A	2,2	•	•	•
80-160/22	2,2	•	•	•
80-200/30	3	•	•	•
80-200/40	4	•	•	•
80-250/55	5,5	•	•	•
80-250/75	7,5	•	•	•
80-250/110	11	•	•	•

• = Available

sh_she4-shs4-shf4_4p50-en_c_tem

SH SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			l/min 0	150	200	250	300	400	450	600	700	800	900	1000	1200	1500	1800	2000	2500	3150	3700
			m^3/h 0	9	12	15	18	24	27	36	42	48	54	60	72	90	108	120	150	189	222
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																		
25-125/07 *	0,75	1	17,3	14,2	12,5	10,5	8,4														
25-125/11 *	1,1	1,5	22,3	18,9	17	14,7	12,3														
25-160/15 *	1,5	2	27,7	24,8	22,9	20,5	17,9	11,9													
25-160/22 *	2,2	3	34,6	31,5	29,4	27	24,2	17,7													
25-200/30	3	4	44,9	39,2	36,7	33,8	30,4	22,4													
25-200/40	4	5,5	54,5	49,4	46,8	43,8	40,3	31,9	27												
25.250/55	5,5	7,5	61,4	55,8	53,2	50,3	47	39,2													
25-250/75	7,5	10	75,9	69,3	66,5	63,2	59,6	51,1													
25-250/110	11	15	87,5	81,5	78,7	75,4	71,8	63,3	58,4												
32-125/07 *	0,75	1	16,6	14,4	13	11,3	9,5														
32-125/11 *	1,1	1,5	21,6	19,4	17,8	16,2	14,2	9,8													
32-160/15 *	1,5	2	27,6	24,6	22,7	20,6	18,1	12,7													
32-160/22 *	2,2	3	35	32,5	31	29	26,6	21	18												
32-200/30	3	4	43,7	38,5	36	33	30	22,3													
32-200/40	4	5,5	53,5	49	46,8	44	41	33,8	28,8												
32-250/55	5,5	7,5	61,7	56,7	54,2	51,2	47,9	40													
32-250/75	7,5	10	74,1	68,9	66,2	63	60	52,2													
32-250/110	11	15	86,2	80,1	77,5	74,3	71	63,3	58,7												
40-125/11 *	1,1	1,5	14,4				12,5	10,9	10	7											
40-125/15 *	1,5	2	17,5				16	14,4	13,4	10,2	8										
40-125/22 *	2,2	3	25,3				22,2	20,4	19,5	15,9	13,2										
40-160/30	3	4	32,2				29,5	26,9	25,4	20,8	17										
40-160/40	4	5,5	38				35,5	33,2	31,7	26,7	22,8	18,5									
40-200/55	5,5	7,5	49,1				46,4	43,8	42	36,2	31	25									
40-200/75	7,5	10	58,2				55,1	52,3	50,8	45	40	34,5									
40-250/ **	**	**	64,9				62	59,5	58	51,5	44,6										
40-250/110	11	15	74,7				71,4	69	67,8	61,5	55,2										
40-250/150	15	20	87,7				84,2	81,5	80	74,3	69,2	62,5									
50-125/22 *	2,2	3	17,2							14,6	13,4	12,2	11	9,5	6,5						
50-125/30	3	4	21,7							18,8	17,5	16,3	14,8	13,4	10,5						
50-125/40	4	5,5	25,7							23,3	22,2	20,8	19,3	18	15						
50-160/55	5,5	7,5	34,1							30,6	29,2	27,6	28	26,6	19,8						
50-160/75	7,5	10	40,8							37,5	36,2	34,8	25,8	24	27	18,6					
50-200/ **	**	**	53							47,5	45,3	42,8	40	36,8	29,8						
50-200/110	11	15	60,1							55	52,8	50,3	47,5	44,3	37,5						
50-250/150	15	20	70,2							66,6	65	63,3	61	58,3	51						
50-250/185	19	25	80							75	73,2	71,4	69	66,3	59,5						
50-250/220	22	30	88,9							84,6	82,8	80,7	78,5	75,8	69,5						
65-160/40	4	5,5	19,6									16,8	16	15,2	13,5	10,8	7,6				
65-160/55	5,5	7,5	24,2									21,4	20,7	19,8	18	15,2	11,8				
65-160/75	7,5	10	28,2									26	25,3	24,7	23	20	16,8	14,5			
65-160/ **	**	**	38,2									35,4	34,3	33	30	25,5	20				
65-160/110	11	15	43,2									40,8	39,8	38,5	35,5	30,6	25,4	21,4			
65-200/150	15	20	53										48,8	47,5	44,3	38,5	32				
65-200/185	19	25	60,2										56,5	55,3	52	47	40	35,4			
65-200/220	22	30	68										64,4	63,3	60	55	49	44,5			
65-250/300	30	40	84,3											81,7	79,5	75	69	64			
65-250/370	37	50	98											95,3	93	88	82,5	78			
80-160/110	11	15	33,6												31,9	30	27,5	25,5	20,5	12,5	
80-160/150	15	20	40,3												38,8	37	34,5	33	27,5	20	
80-160/185	19	25	47,2												45,7	44	41,5	40	35	27,5	19,5
80-200/220	22	30	53													49,8	47,5	46	41	33,5	
80-200/300	30	40	63,6													61,2	59	57	52	44	36,5
80-200/370	37	50	71,4													69,5	67,5	66	61	53,5	46
80-250/450***	45	60	83,5													80,5	78	76	70	61	
80-250/550***	55	75	95,7													93,6	91	89	83,5	75	64,6
80-250/750***	75	100	112													110	108	106	101	92	82

* A single-phase version (SHEM) is also available

she-shs-shf-2p50-en_d_th

** /92 = 9.2kW - 12.5HP SHE ** /110 = 11kW - 15HP SHS

*** Only the SHF version is available

Performances accordin to ISO standards 9906 - Annex A.

SH SERIES
Hydraulic performance table at 50 Hz, 4 poles

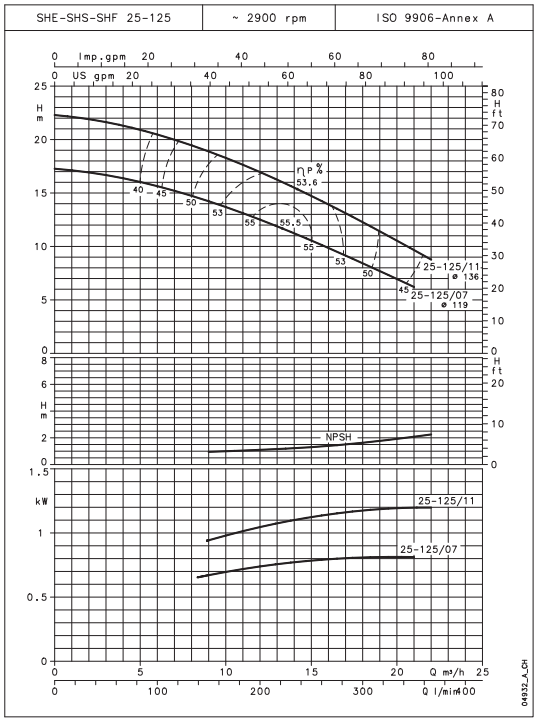
PUMP TYPE	RATED POWER		Q = DELIVERY																		
			l/min 0	75	100	125	150	200	250	300	350	400	450	500	600	750	1000	1200	1800	2000	2200
			m^3/h 0	4,5	6	7,5	9	12	15	18	21	24	27	30	36	45	60	72	108	120	132
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																		
25-125/02A *	0,25	0,33	4,4	3,8	3,4	2,9	2,4														
25-125/02 *	0,25	0,33	5,6	4,8	4,3	3,8	3,2														
25-160/02 *	0,25	0,33	6,9	6,1	5,6	5,1	4,4	2,9													
25-160/03 *	0,37	0,5	8,6	7,8	7,2	6,6	5,9	4,3													
25-200/03 *	0,37	0,5	11	9,4	8,7	8	7,1	5,1													
25-200/05 *	0,55	0,75	13,4	12	11,3	10,5	9,6	7,5													
25-250/07	0,75	1	14,9	13,3	12,6	11,9	11	9	6,7												
25-250/11	1,1	1,5	18,8	17,1	16,3	15,5	14,6	12,4	9,9												
25-250/15	1,5	2	21,5	19,9	19,1	18,3	17,3	15,1	12,6												
32-125/02A *	0,25	0,33	4,4	3,9	3,6	3,1	2,7	1,6													
32-125/02 *	0,25	0,33	5,5	5	4,7	4,3	3,8	2,7													
32-160/02 *	0,25	0,33	6,9	5,9	5,4	4,9	4,4	2,9													
32-160/03 *	0,37	0,5	8,6	7,8	7,4	6,9	6,4	5,2	3,6												
32-200/03 *	0,37	0,5	10,8	9,4	8,7	7,9	7	5,1													
32-200/05 *	0,55	0,75	13,2	12	11,3	10,6	9,8	7,8	5,4												
32-250/07	0,75	1	14,5	13	12,3	11,6	10,8	8,9	6,5												
32-250/11	1,1	1,5	18,4	16,8	16,1	15,3	14,4	12,5	10,1												
32-250/15	1,5	2	21,3	19,7	19	18,2	17,5	15,2	12,8												
40-125/02A *	0,25	0,33	3,5				3	2,7	2,3	1,8	1,3										
40-125/02 *	0,25	0,33	5,4				4,8	4,4	3,9	3,3	2,7	2									
40-125/03 *	0,37	0,5	6,3				5,7	5,2	4,7	4	3,3	2,7									
40-160/03 *	0,37	0,5	8				7,2	6,6	5,9	5,2	4	3,1									
40-160/05 *	0,55	0,75	9,2				8,5	7,9	7,2	6,4	5,4	4,4									
40-200/07	0,75	1	11,9				11,2	10,5	9,7	8,6	7,3	5,8									
40-200/11	1,1	1,5	14,2				13,3	12,7	11,8	10,8	9,5	8									
40-250/11	1,1	1,5	15,7				15	14	13	11,9	10,3										
40-250/15	1,5	2	18,1				17	16,3	15,6	14,5	13	11,4									
40-250/22	2,2	3	21,5				20,3	19,7	18,8	17,7	16,3	14,8									
50-125/03A *	0,37	0,5	4,4							3,8	3,6	3,3	3	2,7	1,9						
50-125/03 *	0,37	0,5	5,4							4,6	4,3	4	3,7	3,3	2,6						
50-125/05 *	0,55	0,75	6,4							5,6	5,3	5	4,7	4,3	3,6	2,3					
50-160/07	0,75	1	8,2							7,3	7	6,7	6,3	5,8	5						
50-160/11	1,1	1,5	9,9							8,8	8,5	8,2	7,8	7,5	6,5	4,8					
50-200/11	1,1	1,5	12,8							11,2	10,7	10	9,3	8,6	6,8						
50-200/15	1,5	2	14,7							13	12,4	11,8	11,2	10,3	8,7	5,5					
50-250/22A	2,2	3	17,5							16	15,5	15	14,3	13,8	12						
50-250/22	2,2	3	19,4							17,8	17,3	16,8	16,2	15,4	13,8						
50-250/30	3	4	21,9							20,5	20,2	19,6	19	18,4	16,7	13,5					
65-160/05	0,55	0,75	5,4									4,2	3,9	3,7	3,2	2,5					
65-160/07	0,75	1	6,4									5,3	5,1	4,8	4,4	3,6					
65-160/11A	1,1	1,5	7,6									7	6,3	6,1	5,7	4,9	3,4				
65-160/ 11	1,1	1,5	9,4									8,5	8,2	8	7	5,9	3,4				
65-160/15	1,5	2	10,6									9,7	9,5	9,2	8,5	7,3	4,9				
65-200/15	1,5	2	11,9										10,6	10,2	9,3	7,9	5,1				
65-200/22	2,2	3	14,4										13,2	12,8	12	10,6	7,8				
65-200/30	3	4	17,5										16,6	16,3	15,6	14,2	11,7	9,3			
65-250/40	4	5,5	20,7											19,5	18,8	17,7	15	12			
65-250/55	5,5	7,5	24											23,2	22,7	21,4	19	16,4			
80-160/15	1,5	2	8,3												7,6	7	6	5,2			
80-160/22A	2,2	3	9,6												9	8,5	7,5	6,5	3,2		
80-160/22	2,2	3	11												10,4	9,8	9	8	4,5		
80-200/30	3	4	12,9													12	10,8	9,8	6,1	4,6	
80-200/40	4	5,5	16,1													15,4	14,3	11,3	9,7	8,4	7
80-250/55	5,5	7,5	20,3													19,5	18,4	17,3	12,3	10,1	
80-250/75	7,5	1	23,1													22,2	21,3	20,3	16,1	14,2	12,2
80-250/110	11	15	26,7													26,1	25,2	24,2	20,2	18,6	16,8

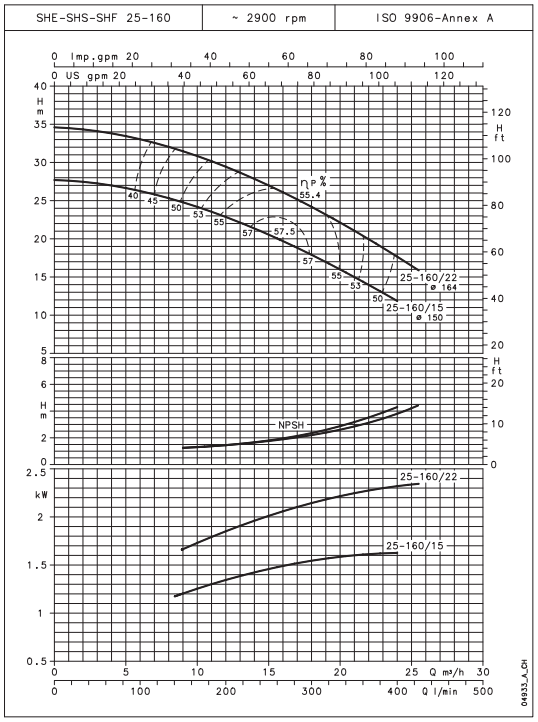
* SHS4 version is not available.

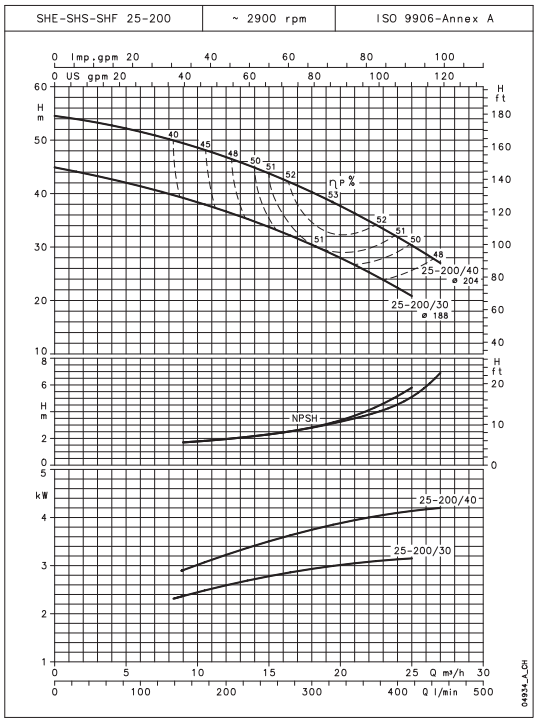
she4-shs4-shf4-4p50-en_f_th

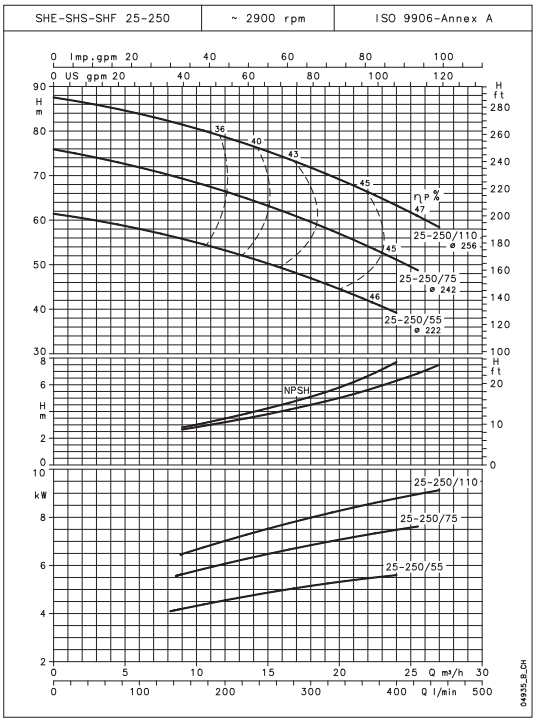
Performances accordin to ISO standards 9906 - Annex A.

SH SERIES
Operating characteristics at 50 Hz, 2 poles





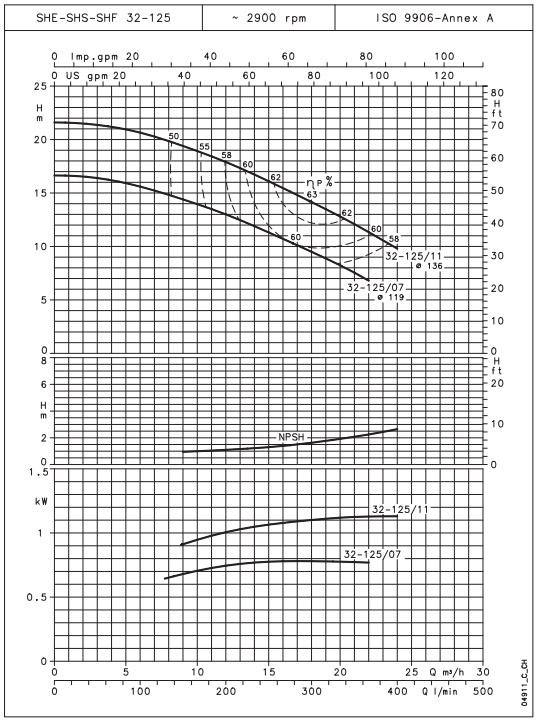


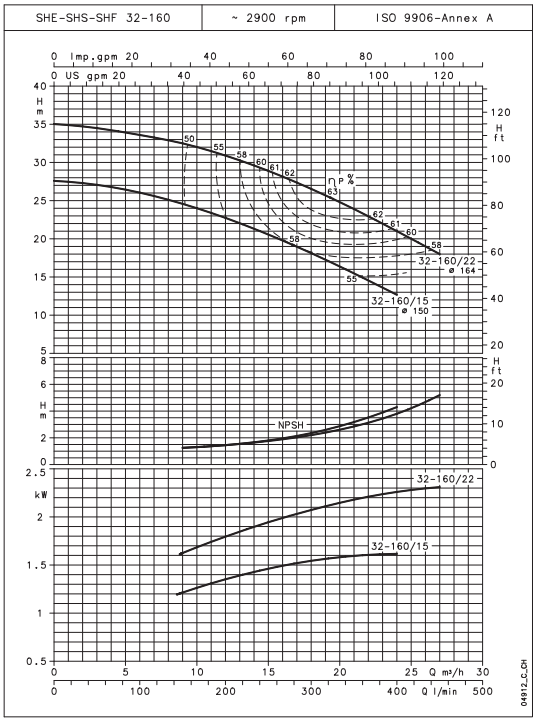


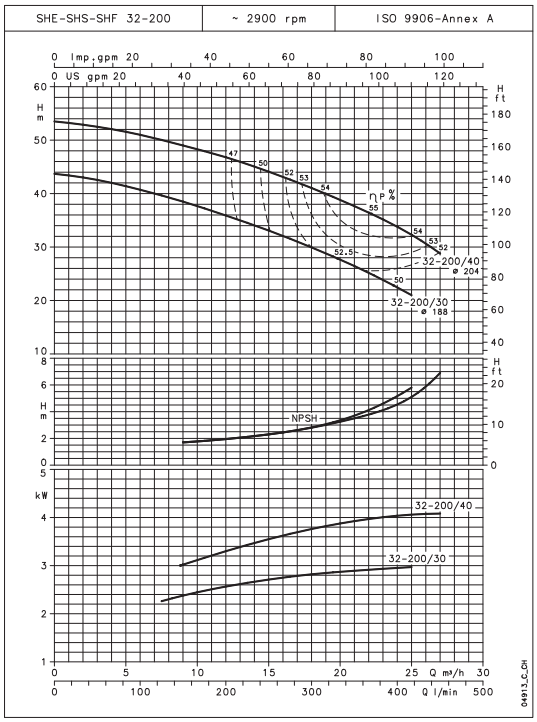
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

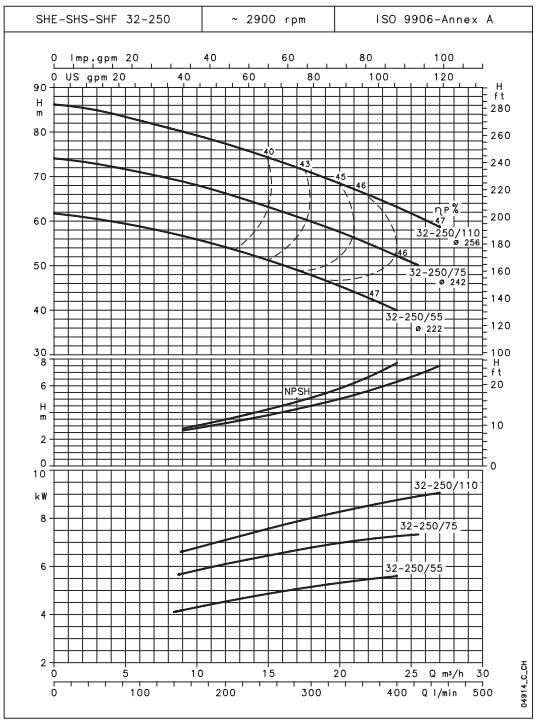
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 2 poles





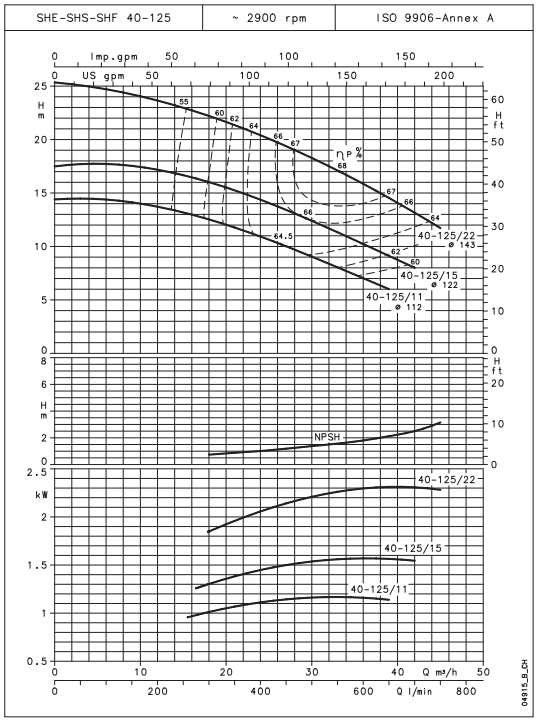


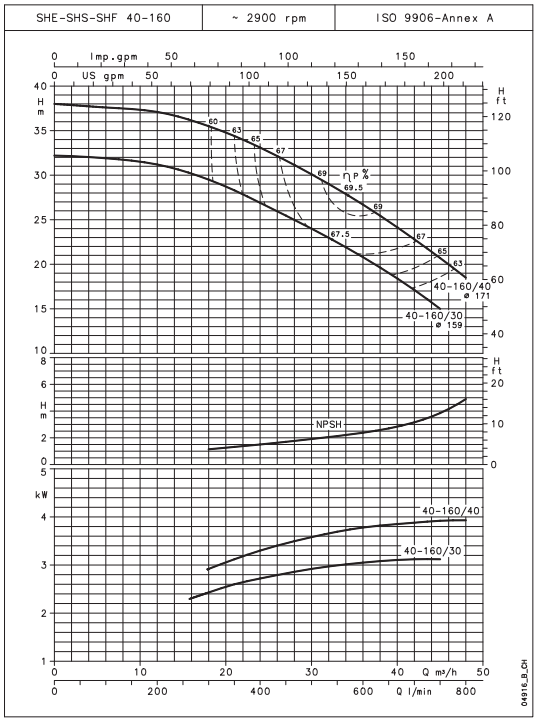


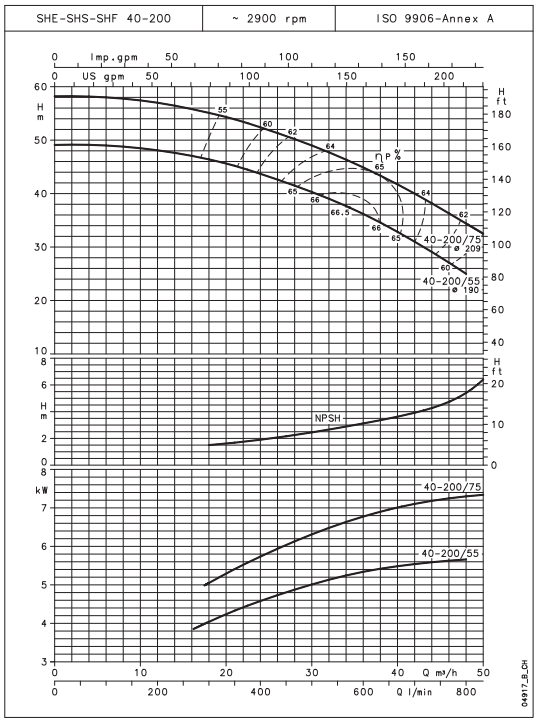
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

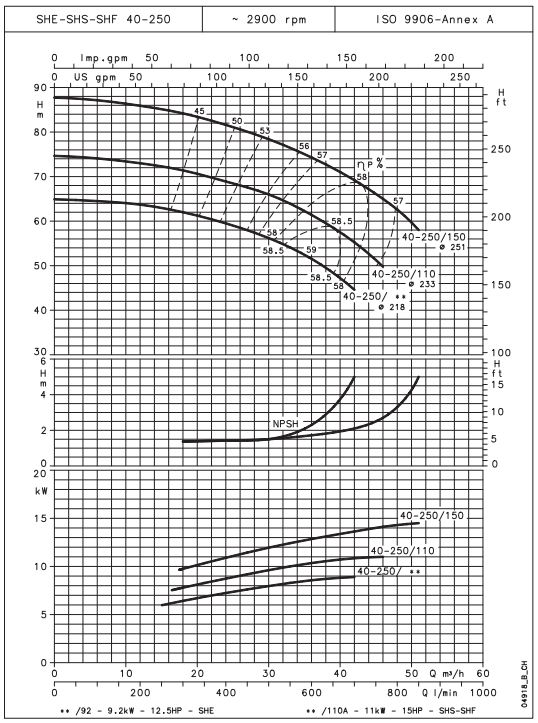
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 2 poles





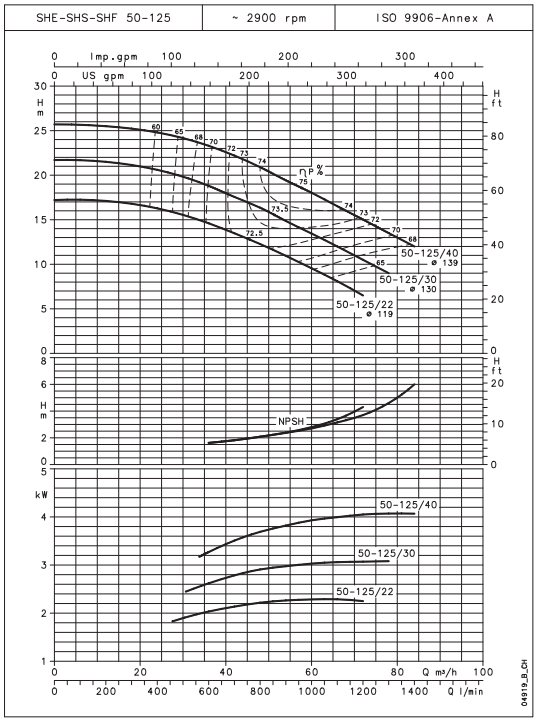


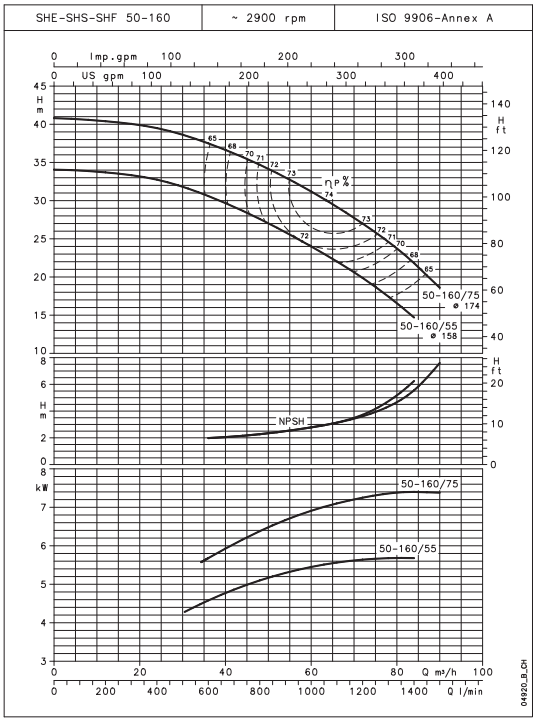


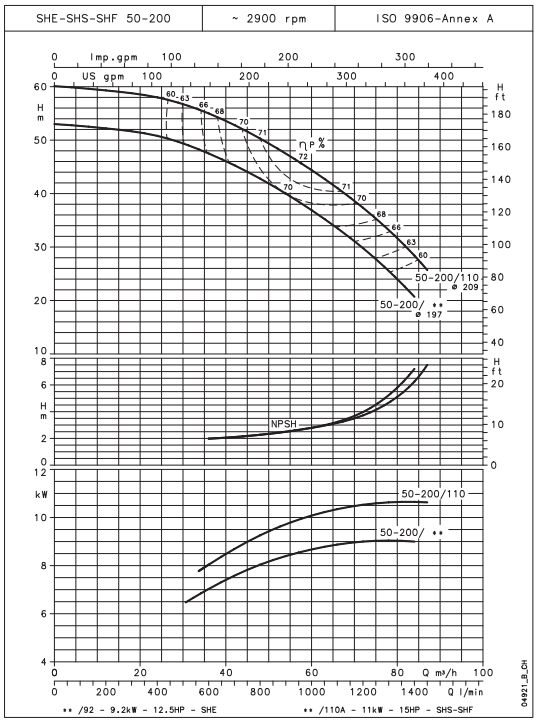
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

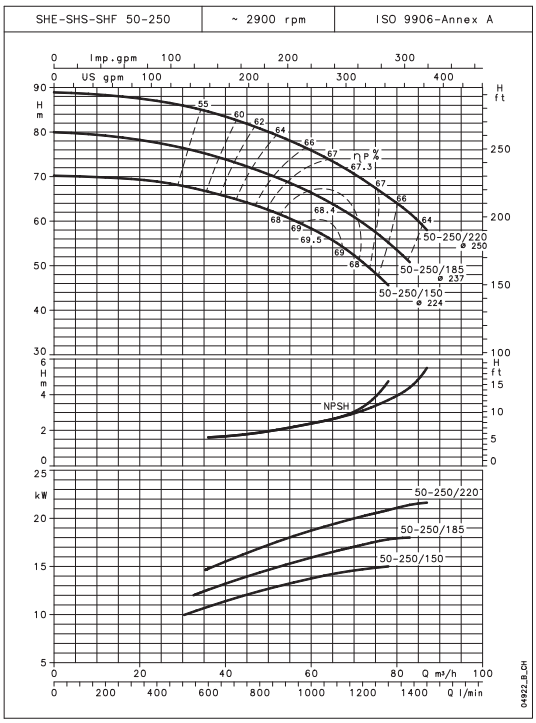
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 2 poles





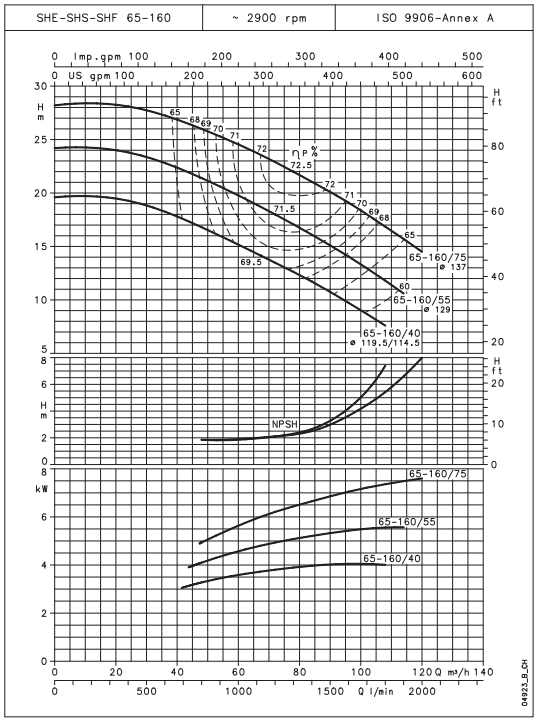


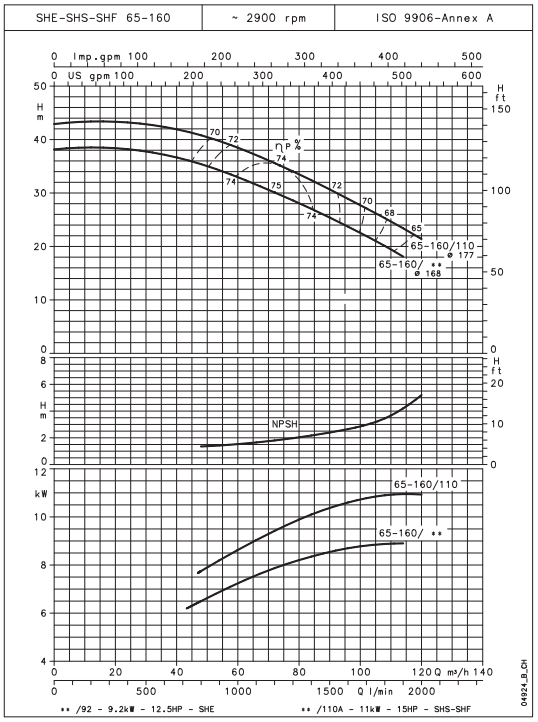


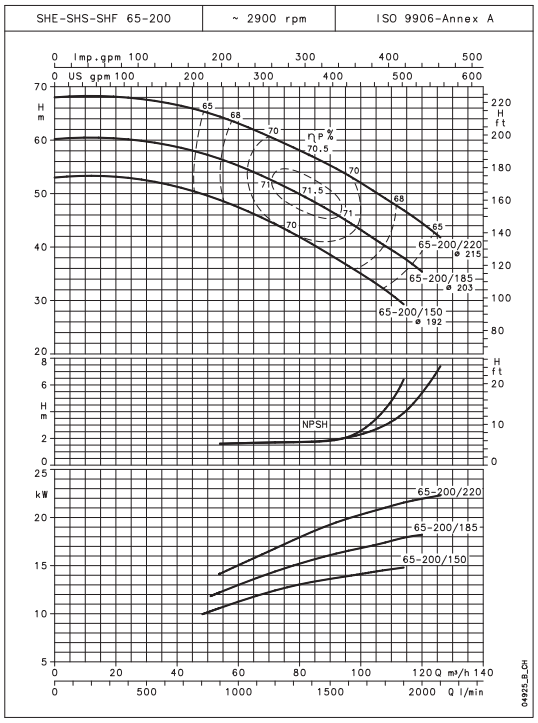
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

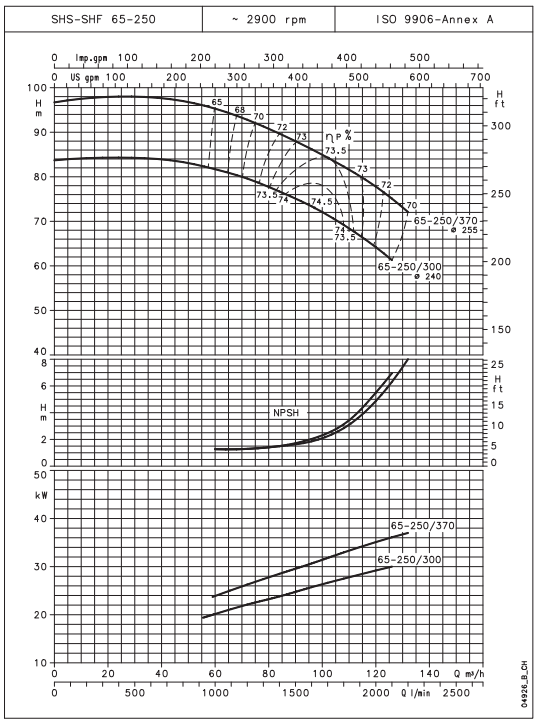
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 2 poles





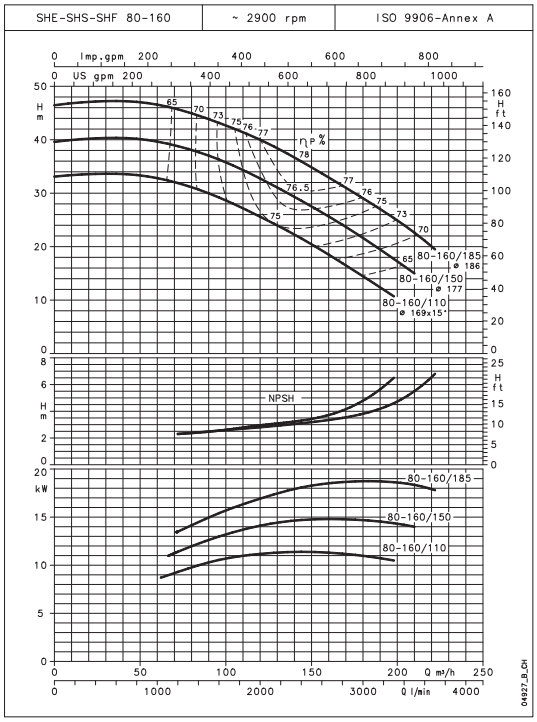


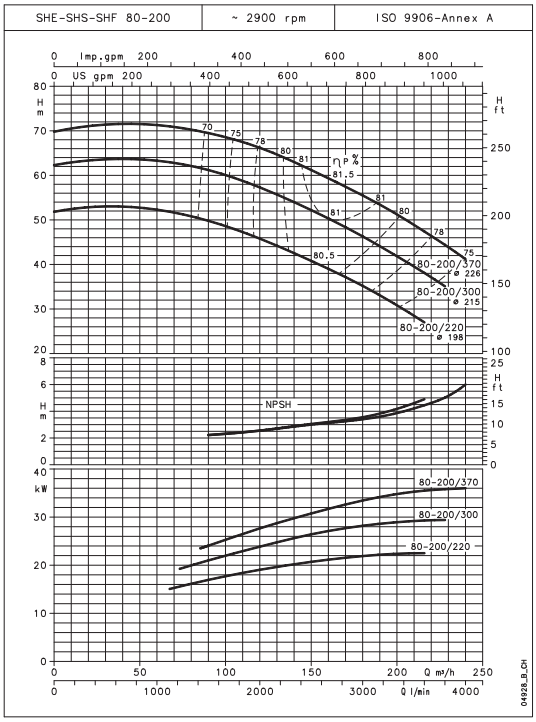


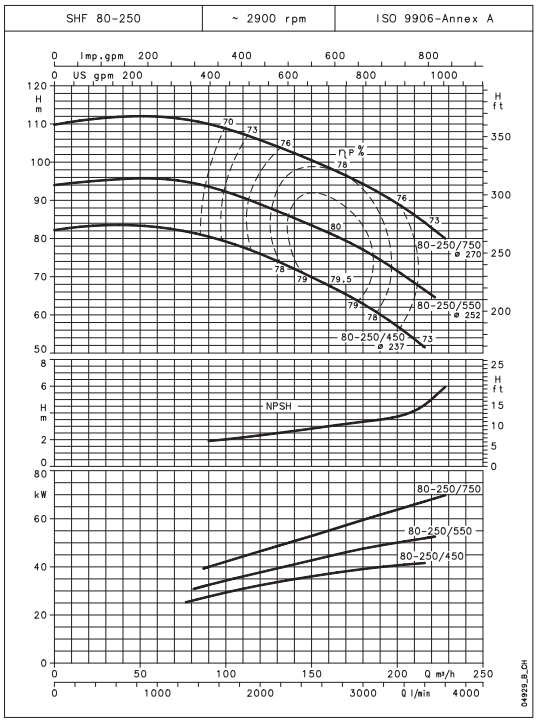
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SH SERIES
Operating characteristics at 50 Hz, 2 poles



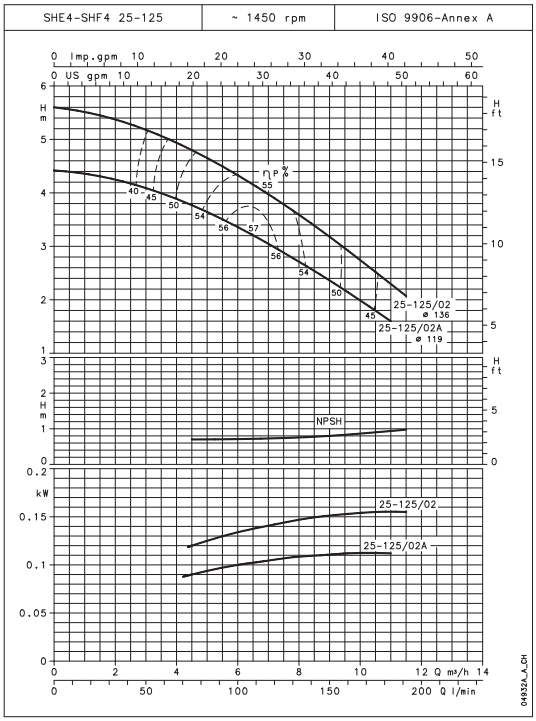


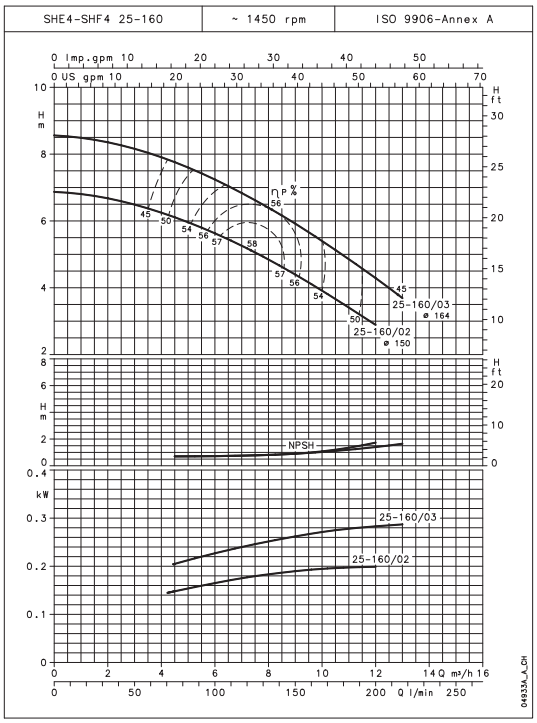


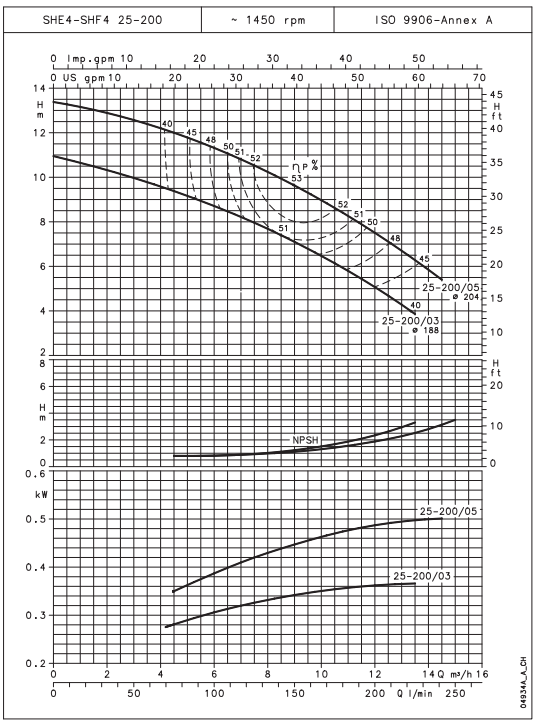
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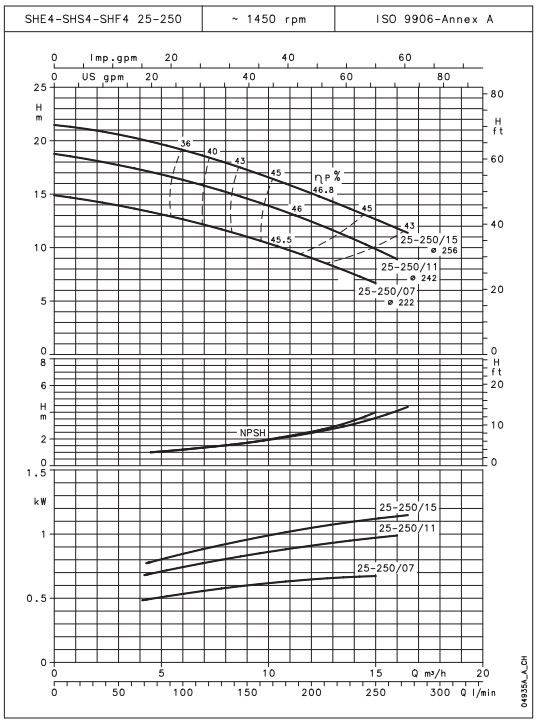
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 4 poles





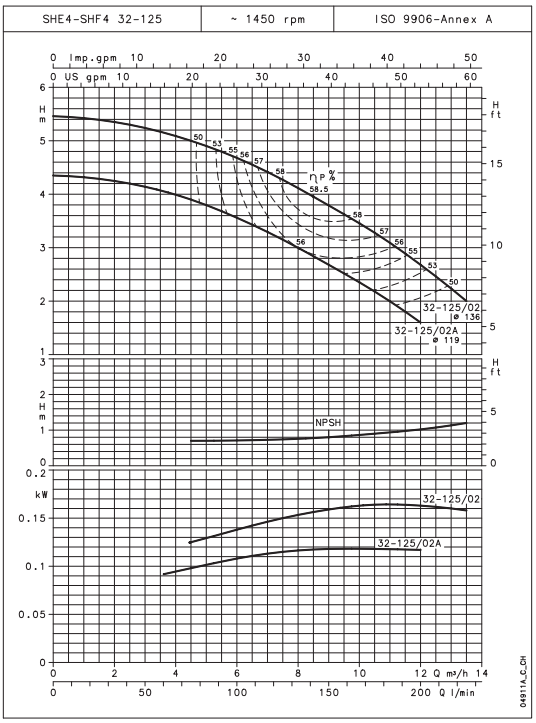


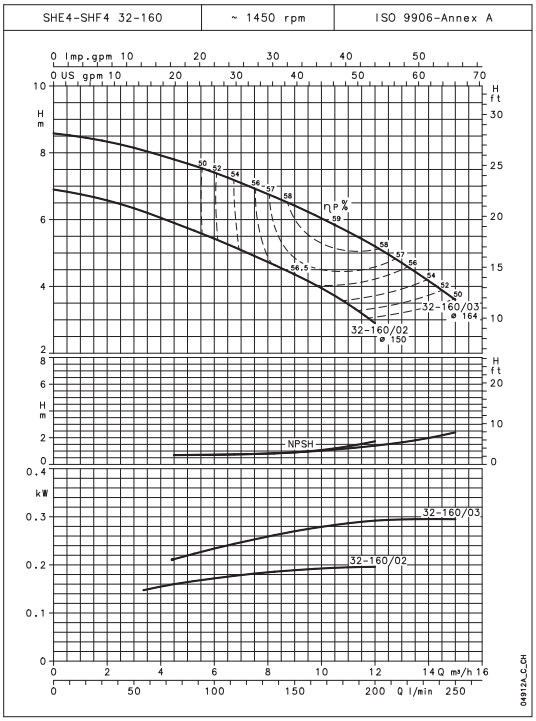


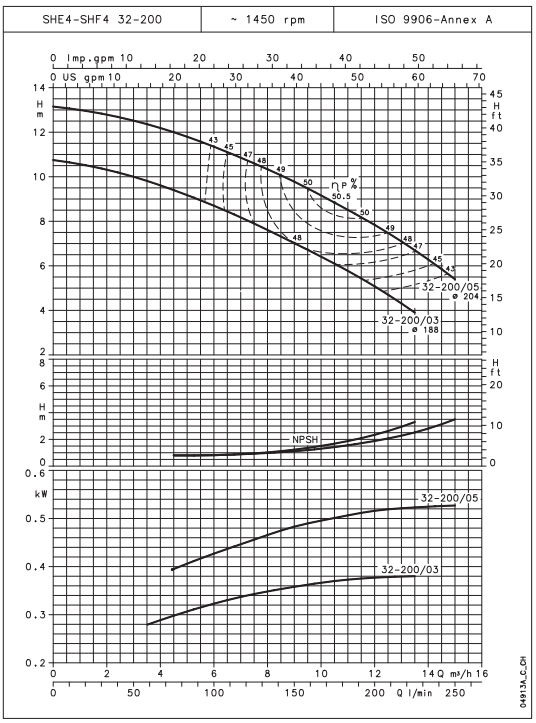
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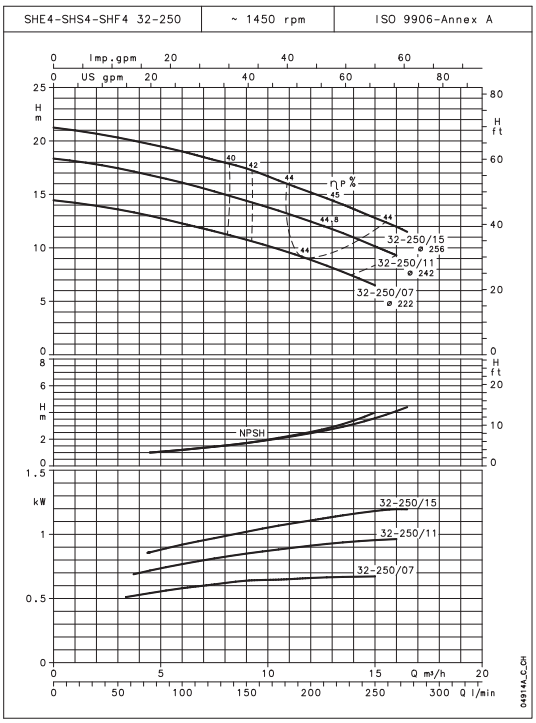
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

SH SERIES
Operating characteristics at 50 Hz, 4 poles





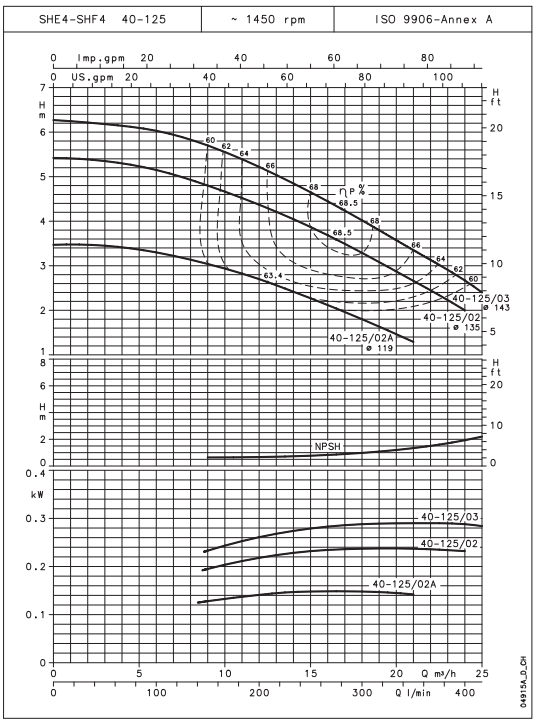


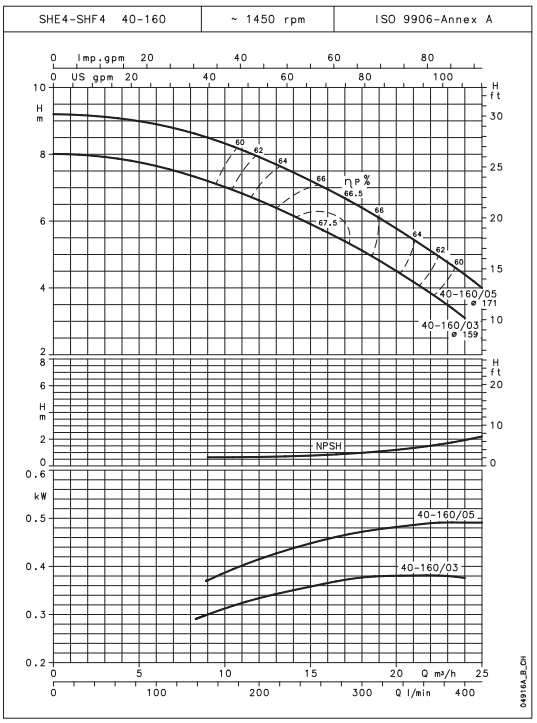


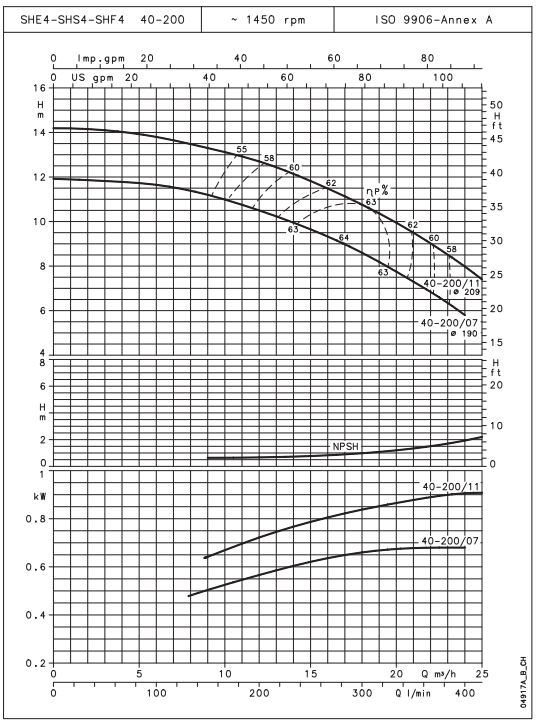
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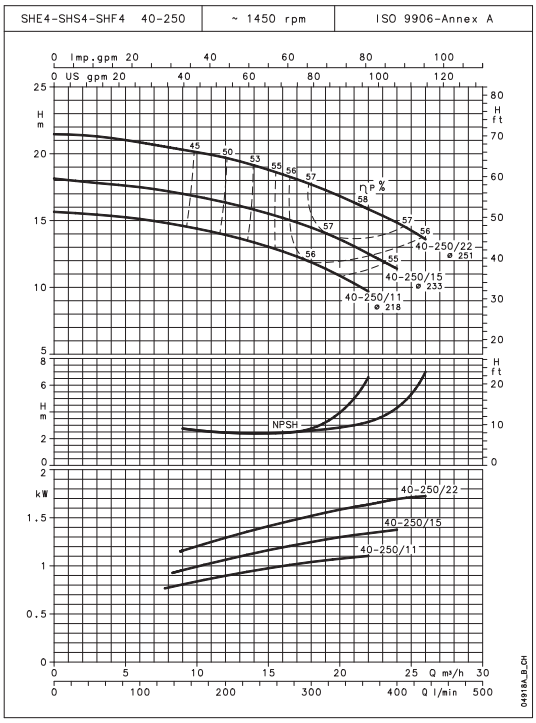
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SH SERIES
Operating characteristics at 50 Hz, 4 poles





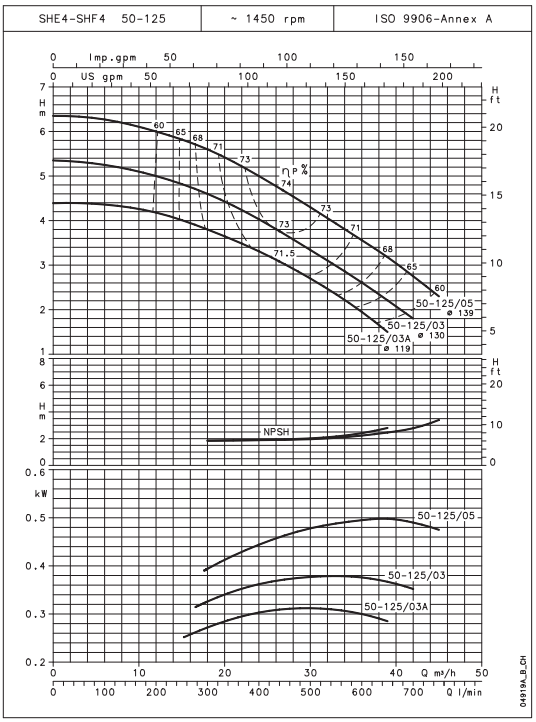


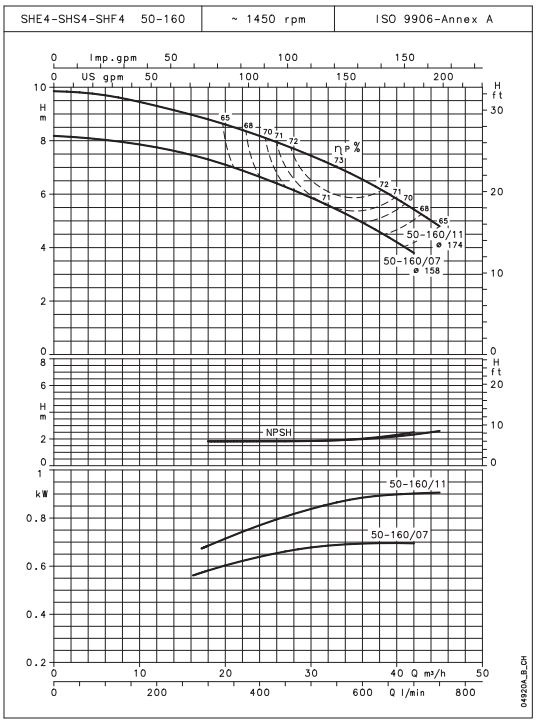


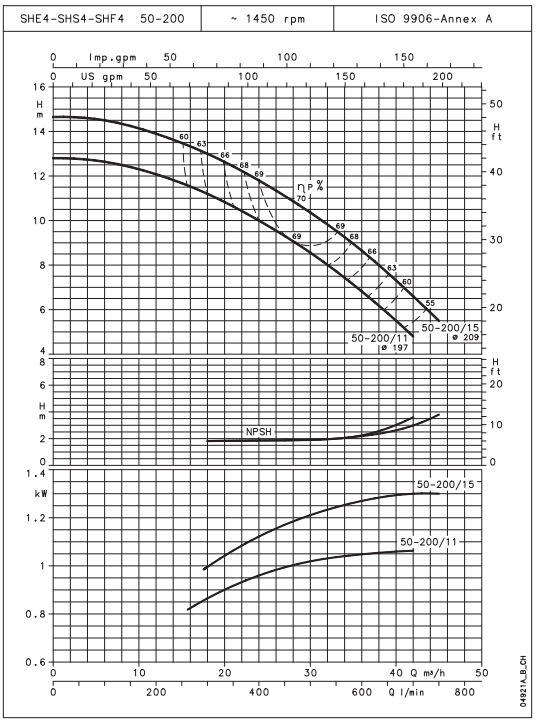
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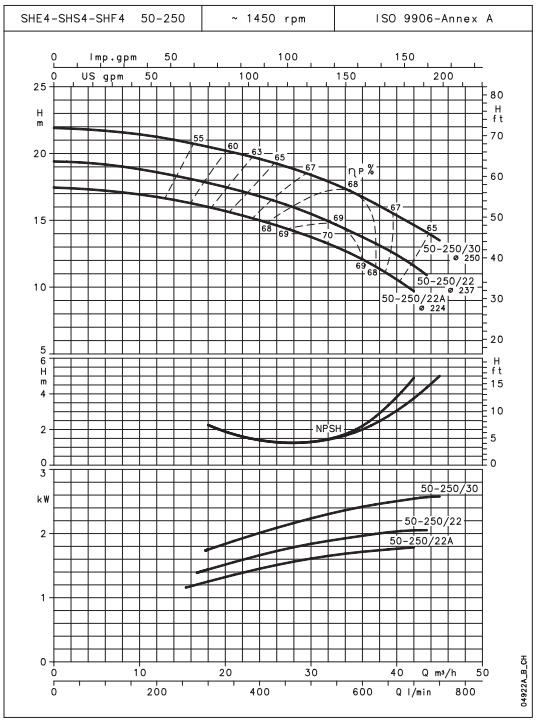
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SH SERIES
Operating characteristics at 50 Hz, 4 poles





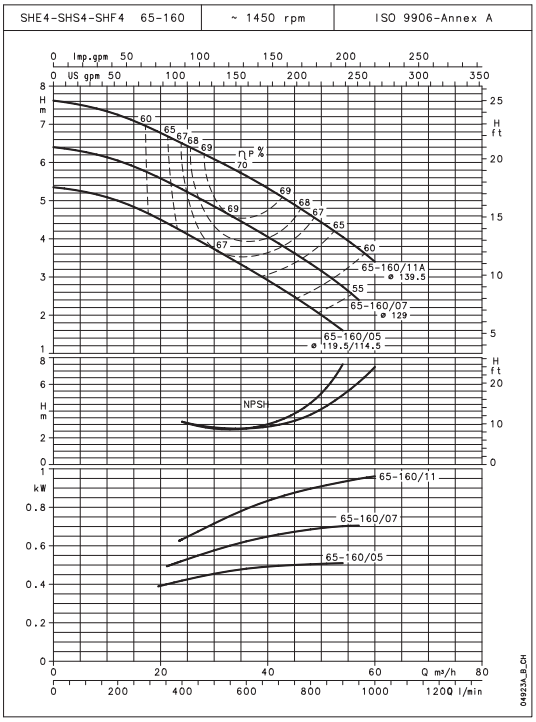


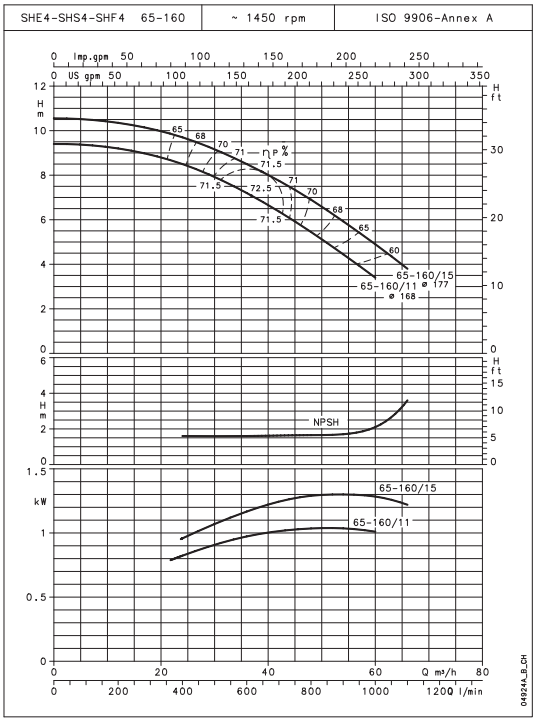


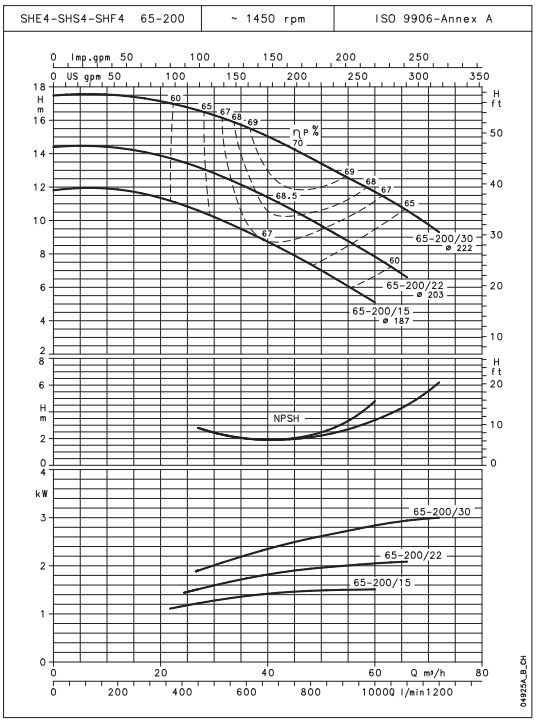
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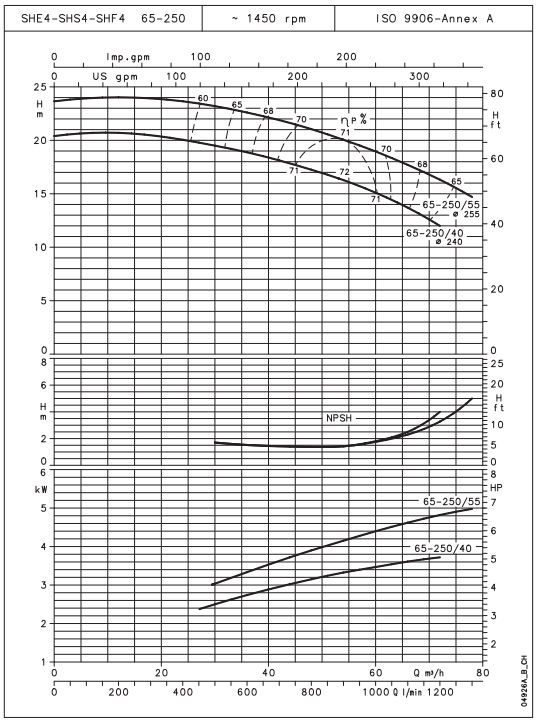
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SH SERIES
Operating characteristics at 50 Hz, 4 poles





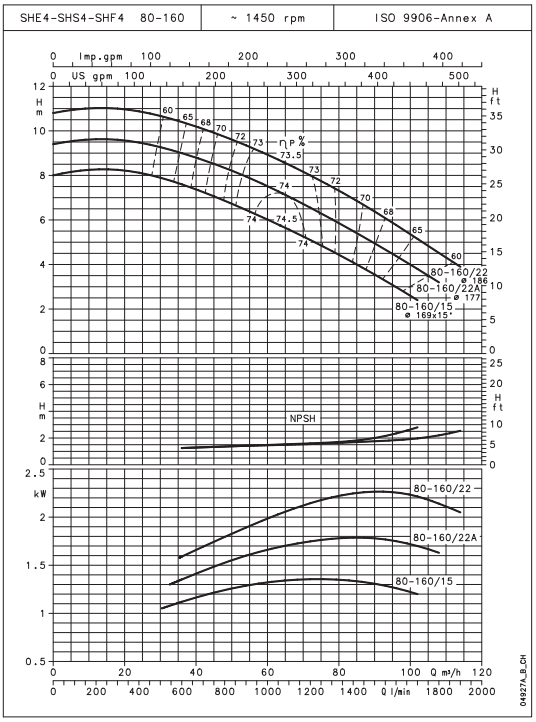


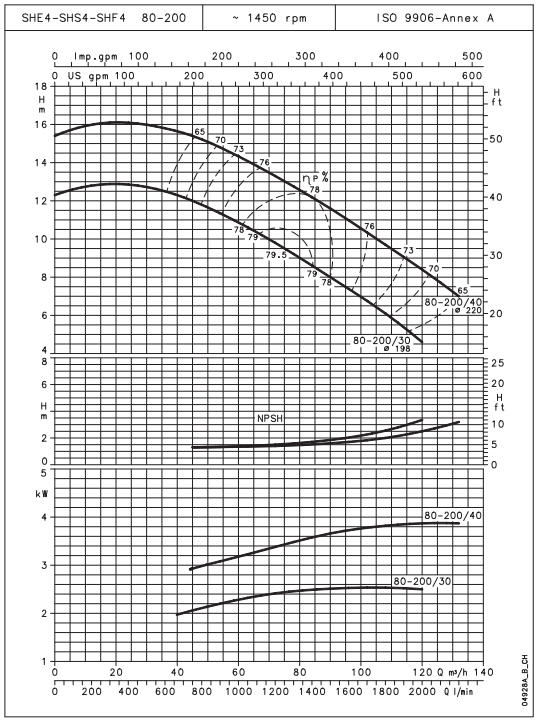


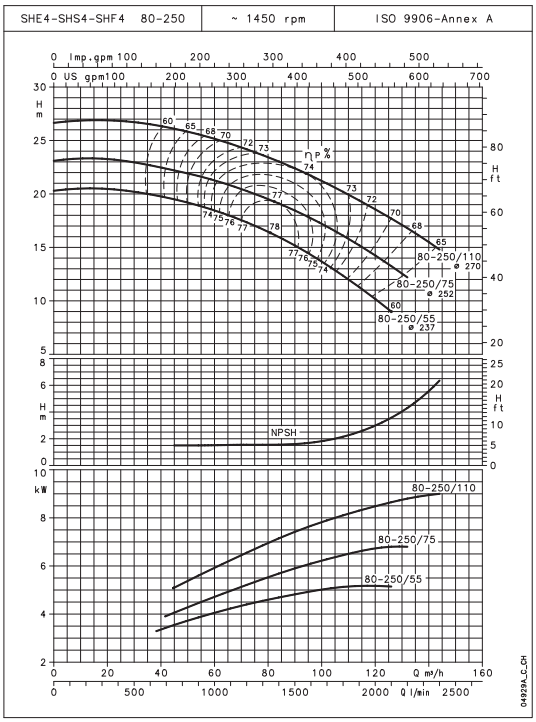
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SH SERIES
Operating characteristics at 50 Hz, 4 poles



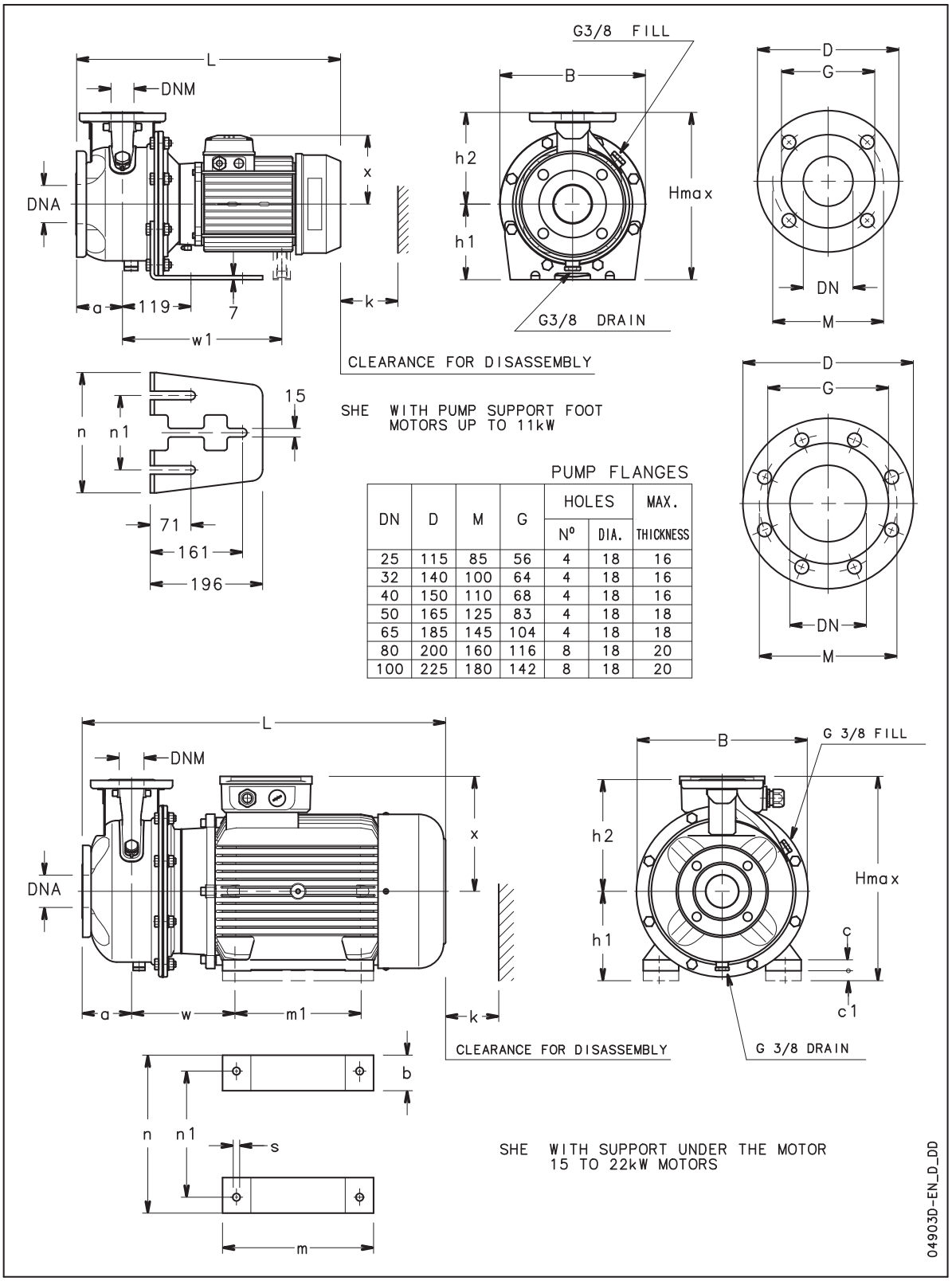




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These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

SHE SERIES
Dimensions and weights at 50 Hz, 2 poles



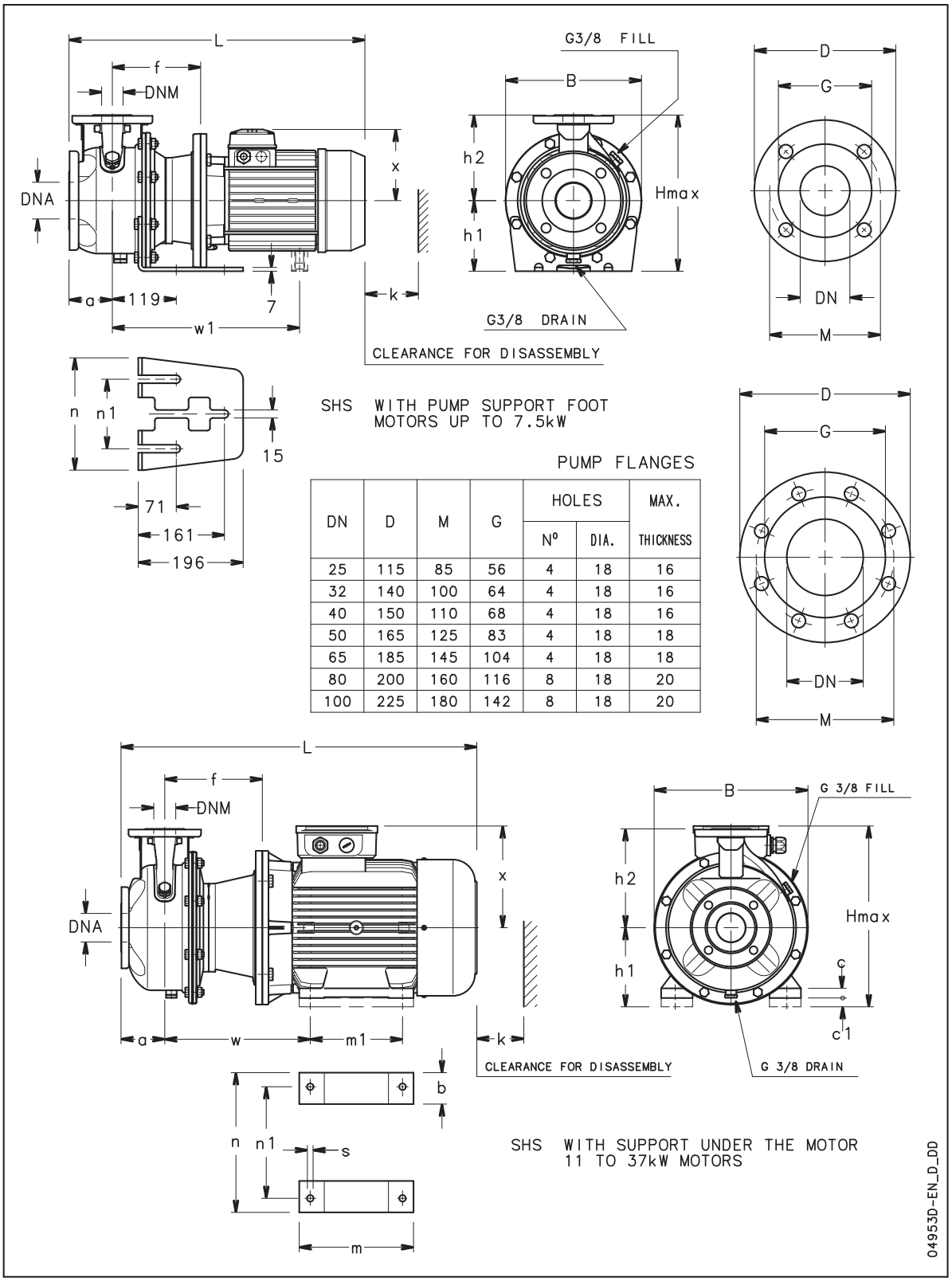
DN	D	M	G	HOLES		MAX.
				N°	DIA.	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

SHE SERIES
Dimensions and weights at 50 Hz, 2 poles

PUMP TYPE	DIMENSIONS (mm)																				WEIGHT
	PUMP							SUPPORT									B	H	L	k	
	DNM	DNA	a	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s		max			kg
SHE 25-125/07	25	50	80	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	443	98	20
SHE 25-125/11	25	50	80	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	443	98	22
SHE 25-160/15	25	50	80	160	-	-	134	-	-	-	160	-	-	210	130	-	253	320	478	98	28
SHE 25-160/22	25	50	80	160	-	-	134	-	-	-	160	-	-	210	130	-	253	320	478	98	29
SHE 25-200/30	25	50	80	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	478	98	38
SHE 25-200/40	25	50	80	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	499	98	41
SHE 25-250/55	25	50	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	98	66
SHE 25-250/75	25	50	100	225	-	305	191	-	-	-	180	-	-	265	130	-	345	405	567	98	84
SHE 25-250/110	25	50	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	98	92
SHE 32-125/07	32	50	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	98	20
SHE 32-125/11	32	50	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	98	22
SHE 32-160/15	32	50	80	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	478	98	28
SHE 32-160/22	32	50	80	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	478	98	29
SHE 32-200/30	32	50	80	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	478	98	38
SHE 32-200/40	32	50	80	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	499	98	41
SHE 32-250/55	32	50	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	98	66
SHE 32-250/75	32	50	100	225	-	305	191	-	-	-	180	-	-	265	130	-	345	405	567	98	84
SHE 32-250/110	32	50	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	98	92
SHE 40-125/11	40	65	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	100	23
SHE 40-125/15	40	65	80	140	-	-	134	-	-	-	112	-	-	190	130	-	218	252	478	100	26
SHE 40-125/22	40	65	80	140	-	-	134	-	-	-	112	-	-	190	130	-	218	252	478	100	30
SHE 40-160/30	40	65	80	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	478	100	32
SHE 40-160/40	40	65	80	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	499	100	40
SHE 40-200/55	40	65	100	180	-	-	168	-	-	-	160	-	-	230	130	-	284	340	553	100	52
SHE 40-200/75	40	65	100	180	-	305	191	-	-	-	160	-	-	230	130	-	284	340	567	100	65
SHE 40-250/92	40	65	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	107	89
SHE 40-250/110	40	65	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	107	94
SHE 40-250/150	40	65	100	225	208	-	240	49	5	20	180	304	210	304	254	15	345	420	694	107	130
SHE 50-125/22	50	65	100	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	498	104	30
SHE 50-125/30	50	65	100	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	498	104	33
SHE 50-125/40	50	65	100	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	519	104	40
SHE 50-160/55	50	65	100	180	-	-	168	-	-	-	160	-	-	210	130	-	253	340	553	104	52
SHE 50-160/75	50	65	100	180	-	305	191	-	-	-	160	-	-	210	130	-	253	340	567	104	67
SHE 50-200/92	50	65	100	200	-	343	191	-	-	-	160	-	-	245	130	-	310	360	605	104	84
SHE 50-200/110	50	65	100	200	-	343	191	-	-	-	160	-	-	245	130	-	310	360	605	104	88
SHE 50-250/150	50	65	100	225	208	-	240	49	5	20	180	304	210	304	254	15	345	420	694	107	131
SHE 50-250/185	50	65	100	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	694	107	144
SHE 50-250/220	50	65	100	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	694	107	147
SHE 65-160/40	65	80	100	200	-	-	154	-	-	-	160	-	-	245	130	-	310	360	519	130	56
SHE 65-160/55	65	80	100	200	-	-	168	-	-	-	160	-	-	245	130	-	310	360	553	130	63
SHE 65-160/75	65	80	100	200	-	305	191	-	-	-	160	-	-	245	130	-	310	360	567	130	80
SHE 65-160/92	65	80	100	200	-	343	191	-	-	-	160	-	-	245	130	-	310	360	605	130	95
SHE 65-160/110	65	80	100	200	-	343	191	-	-	-	160	-	-	245	130	-	310	360	605	130	102
SHE 65-200/150	65	80	100	225	208	-	240	49	5	20	180	304	210	304	254	15	310	420	694	130	131
SHE 65-200/185	65	80	100	225	208	-	240	49	5	20	180	304	254	304	254	15	310	420	694	130	141
SHE 65-200/220	65	80	100	225	208	-	240	49	5	20	180	304	254	304	254	15	310	420	694	130	151
SHE 80-160/110	80	100	125	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	630	160	94
SHE 80-160/150	80	100	125	225	208	-	240	49	5	20	180	304	210	304	254	15	345	420	719	160	128
SHE 80-160/185	80	100	125	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	719	160	139
SHE 80-200/220	80	100	125	250	208	-	240	49	5	20	180	304	254	304	254	15	345	430	719	160	156

sh-she-2p50-en_d_td

SHS SERIES
Dimensions and weights at 50 Hz, 2 poles

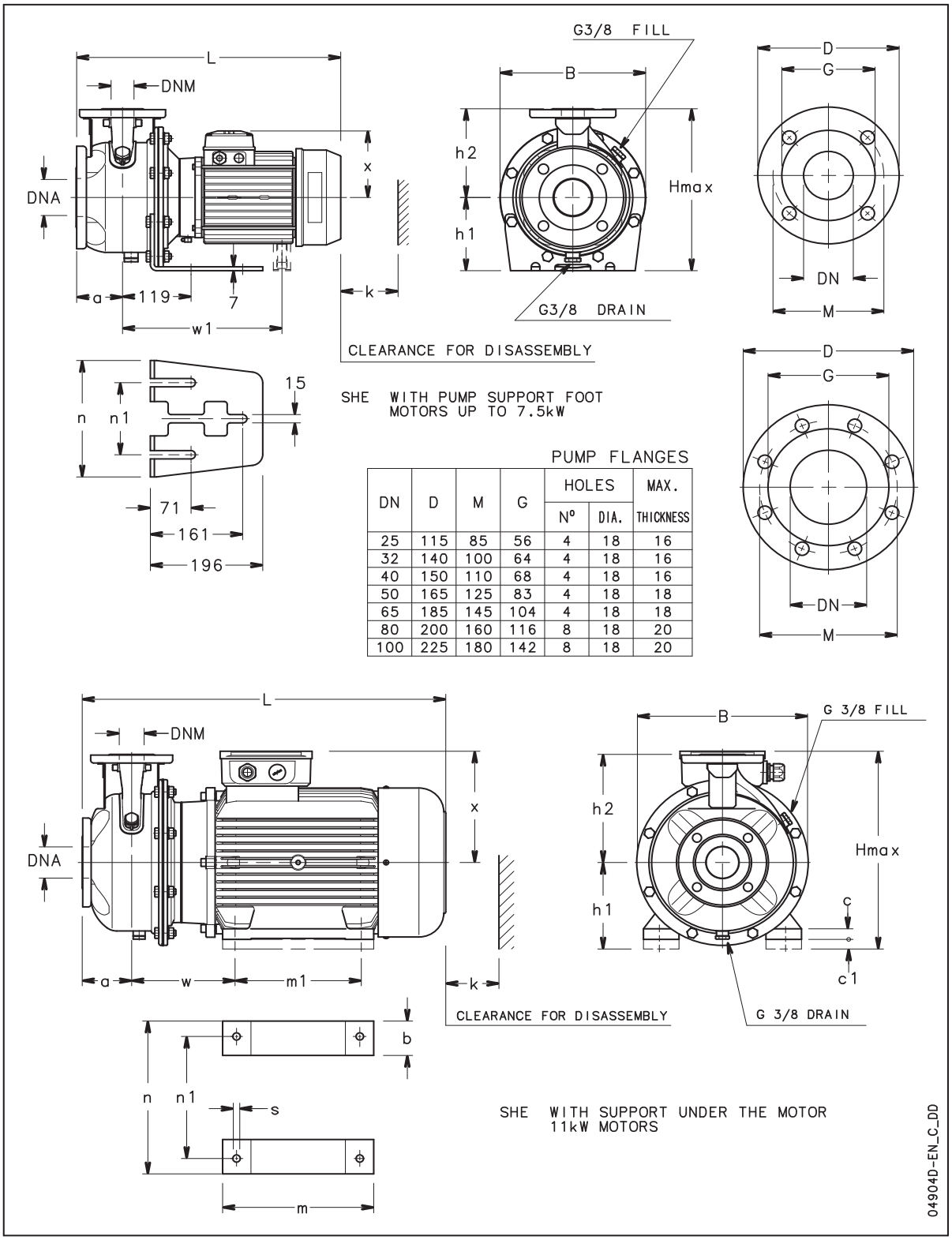


DN	D	M	G	HOLES		MAX.
				N°	DIA.	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

SHS SERIES
Dimensions and weights at 50 Hz, 2 poles

PUMP TYPE	DIMENSIONS (mm)																					WEIGHT
	PUMP								SUPPORT									B	H	L	k	
	DNM	DNA	a	f	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s		max			kg
SHS 25-125/07	25	50	80	155	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	498	98	25
SHS 25-125/11	25	50	80	155	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	498	98	26
SHS 25-160/15	25	50	80	155	160	-	-	134	-	-	-	160	-	-	210	130	-	253	320	533	98	31
SHS 25-160/22	25	50	80	155	160	-	-	134	-	-	-	160	-	-	210	130	-	253	320	533	98	33
SHS 25-200/30	25	50	80	165	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	543	98	44
SHS 25-200/40	25	50	80	165	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	564	98	51
SHS 25-250/55	25	50	100	192	225	-	399	168	-	-	-	180	-	-	265	130	-	345	405	667	98	77
SHS 25-250/75	25	50	100	192	225	-	397	191	-	-	-	180	-	-	265	130	-	345	405	659	98	91
SHS 25-250/110	25	50	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	98	130
SHS 32-125/07	32	50	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	98	25
SHS 32-125/11	32	50	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	98	26
SHS 32-160/15	32	50	80	155	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	533	98	31
SHS 32-160/22	32	50	80	155	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	533	98	33
SHS 32-200/30	32	50	80	165	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	543	98	44
SHS 32-200/40	32	50	80	165	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	564	98	51
SHS 32-250/55	32	50	100	192	225	-	399	168	-	-	-	180	-	-	265	130	-	345	405	667	98	77
SHS 32-250/75	32	50	100	192	225	-	397	191	-	-	-	180	-	-	265	130	-	345	405	659	98	91
SHS 32-250/110	32	50	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	98	130
SHS 40-125/11	40	65	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	100	27
SHS 40-125/15	40	65	80	155	140	-	-	134	-	-	-	112	-	-	190	130	-	218	252	533	100	29
SHS 40-125/22	40	65	80	155	140	-	-	134	-	-	-	112	-	-	190	130	-	218	252	533	100	32
SHS 40-160/30	40	65	80	165	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	543	100	42
SHS 40-160/40	40	65	80	165	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	564	100	48
SHS 40-200/55	40	65	100	192	180	-	399	168	-	-	-	160	-	-	230	130	-	300	340	667	100	63
SHS 40-200/75	40	65	100	192	180	-	397	191	-	-	-	160	-	-	230	130	-	300	340	659	100	80
SHS 40-250/110A	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	129
SHS 40-250/110	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	129
SHS 40-250/150	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	142
SHS 50-125/22	50	65	100	155	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	553	104	36
SHS 50-125/30	50	65	100	165	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	563	104	37
SHS 50-125/40	50	65	100	165	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	584	104	48
SHS 50-160/55	50	65	100	192	180	-	399	168	-	-	-	160	-	-	210	130	-	300	340	667	104	62
SHS 50-160/75	50	65	100	192	180	-	397	191	-	-	-	160	-	-	210	130	-	300	340	659	104	81
SHS 50-200/110A	50	65	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	104	126
SHS 50-200/110	50	65	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	104	130
SHS 50-250/150	50	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	148
SHS 50-250/185	50	65	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	107	156
SHS 50-250/220	50	65	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	107	162
SHS 65-160/40	65	80	100	165	200	-	-	154	-	-	-	160	-	-	245	130	-	310	360	584	130	60
SHS 65-160/55	65	80	100	192	200	-	399	168	-	-	-	160	-	-	245	130	-	310	360	667	130	78
SHS 65-160/75	65	80	100	192	200	-	397	191	-	-	-	160	-	-	245	130	-	310	360	659	130	93
SHS 65-160/110A	65	80	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	116
SHS 65-160/110	65	80	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	120
SHS 65-200/150	65	80	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	147
SHS 65-200/185	65	80	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	130	153
SHS 65-200/220	65	80	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	130	167
SHS 65-250/300	65	80	100	228	250	361	-	317	82	30	-	200	370	305	385	318	18	402	517	985	140	290
SHS 65-250/370	65	80	100	228	250	361	-	317	82	30	-	200	370	305	385	318	18	402	517	985	140	322
SHS 80-160/110	80	100	125	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	841	160	116
SHS 80-160/150	80	100	125	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	841	160	152
SHS 80-160/185	80	100	125	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	841	160	160
SHS 80-200/220	80	100	125	222	250	330	-	240	49	5	20	180	304	254	304	254	15	350	430	841	160	162
SHS 80-200/300	80	100	125	228	250	361	-	317	82	30	-	200	370	305	385	318	18	402	517	985	160	312
SHS 80-200/370	80	100	125	228	250	361	-	317	82	30	-	200	370	305	385	318	18	402	517	985	160	317

SHE4 SERIES
Dimensions and weights at 50 Hz, 4 poles

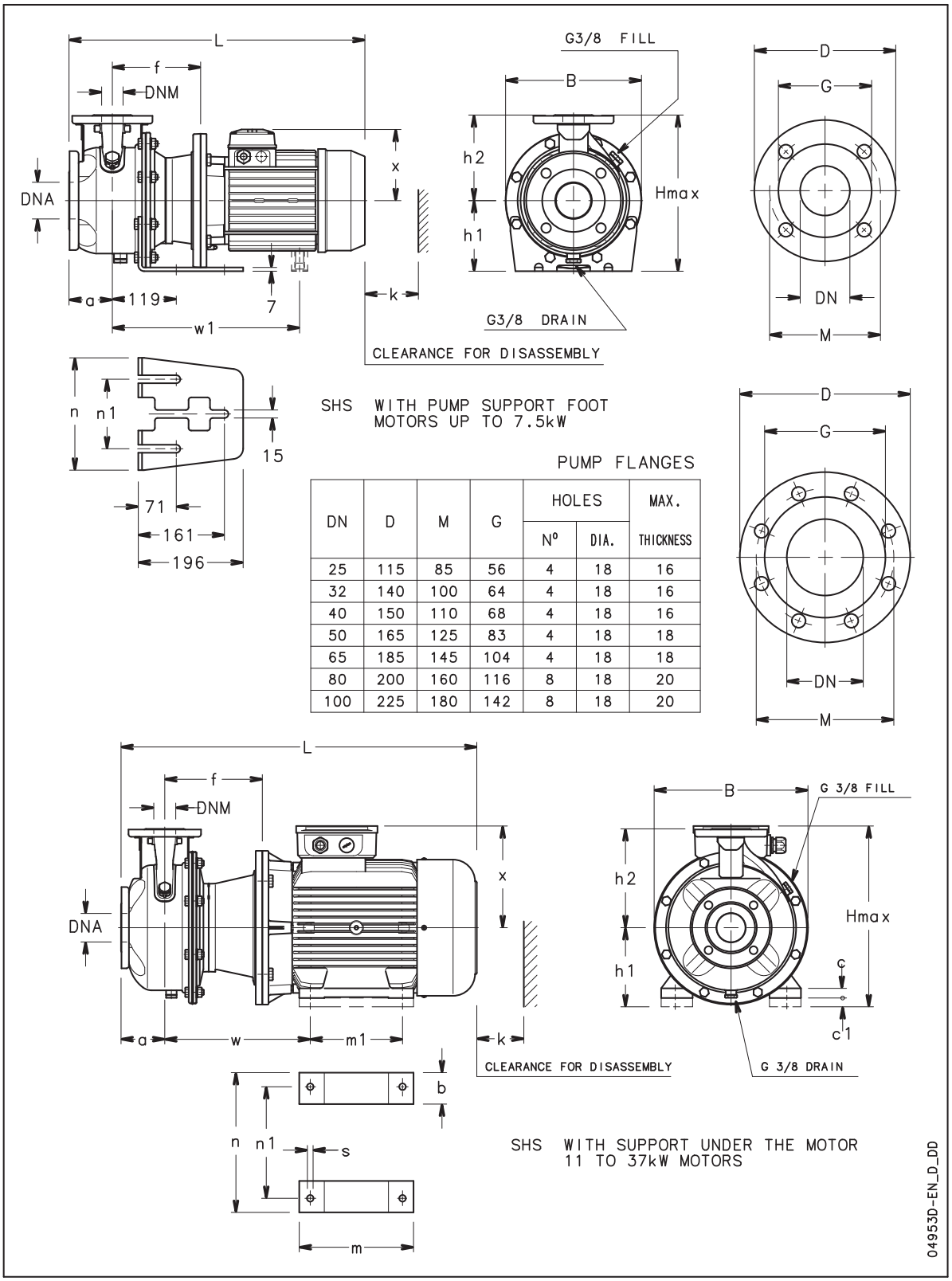


SHE4 SERIES
Dimensions and weights at 50 Hz, 4 poles

PUMP TYPE	DIMENSIONS (mm)																				WEIGHT
	PUMP							SUPPORT									B	H	L	k	
	DNM	DNA	a	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s		max			kg
SHE4 25-125/02A	25	50	80	140	-	-	121	-	-	-	160	-	-	190	130	-	218	300	411	98	15
SHE4 25-125/02	25	50	80	140	-	-	121	-	-	-	160	-	-	190	130	-	218	300	411	98	16
SHE4 25-160/02	25	50	80	160	-	-	121	-	-	-	160	-	-	210	130	-	253	320	411	98	18
SHE4 25-160/03	25	50	80	160	-	-	121	-	-	-	160	-	-	210	130	-	253	320	411	98	19
SHE4 25-200/03	25	50	80	180	-	-	121	-	-	-	160	-	-	230	130	-	284	340	411	98	26
SHE4 25-200/05	25	50	80	180	-	-	129	-	-	-	160	-	-	230	130	-	284	340	443	98	27
SHE4 25-250/07	25	50	100	225	-	-	128	-	-	-	180	-	-	265	130	-	345	405	431	98	42
SHE4 25-250/11	25	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	49
SHE4 25-250/15	25	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	51
SHE4 32-125/02A	32	50	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	98	15
SHE4 32-125/02	32	50	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	98	16
SHE4 32-160/02	32	50	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	98	18
SHE4 32-160/03	32	50	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	98	19
SHE4 32-200/03	32	50	80	180	-	-	121	-	-	-	160	-	-	230	130	-	284	340	411	98	26
SHE4 32-200/05	32	50	80	180	-	-	129	-	-	-	160	-	-	230	130	-	284	340	443	98	27
SHE4 32-250/07	32	50	100	225	-	-	128	-	-	-	180	-	-	265	130	-	345	405	431	98	42
SHE4 32-250/11	32	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	49
SHE4 32-250/15	32	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	51
SHE4 40-125/02A	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	16
SHE4 40-125/02	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	17
SHE4 40-125/03	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	18
SHE4 40-160/03	40	65	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	100	20
SHE4 40-160/05	40	65	80	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	443	100	24
SHE4 40-200/07	40	65	100	180	-	-	128	-	-	-	160	-	-	230	130	-	285	340	431	100	27
SHE4 40-200/11	40	65	100	180	-	-	134	-	-	-	160	-	-	230	130	-	285	340	498	100	35
SHE4 40-250/11	40	65	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	107	47
SHE4 40-250/15	40	65	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	107	61
SHE4 40-250/22	40	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	65
SHE4 50-125/03A	50	65	100	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	431	104	20
SHE4 50-125/03	50	65	100	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	431	104	20
SHE4 50-125/05	50	65	100	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	463	104	26
SHE4 50-160/07	50	65	100	180	-	-	128	-	-	-	160	-	-	210	130	-	253	340	431	104	30
SHE4 50-160/11	50	65	100	180	-	-	134	-	-	-	160	-	-	210	130	-	253	340	498	104	40
SHE4 50-200/11	50	65	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	104	48
SHE4 50-200/15	50	65	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	104	51
SHE4 50-250/22A	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	56
SHE4 50-250/22	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	56
SHE4 50-250/30	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	107	62
SHE4 65-160/05	65	80	100	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	463	130	32
SHE4 65-160/07	65	80	100	200	-	-	128	-	-	-	160	-	-	245	130	-	310	360	431	130	36
SHE4 65-160/11A	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	44
SHE4 65-160/11	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	45
SHE4 65-160/15	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	48
SHE4 65-200/15	65	80	100	225	-	-	134	-	-	-	180	-	-	245	130	-	310	405	498	130	56
SHE4 65-200/22	65	80	100	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	522	130	64
SHE4 65-200/30	65	80	100	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	553	130	64
SHE4 65-250/40	65	80	100	250	-	315	168	-	-	-	200	-	-	265	130	-	345	450	598	140	84
SHE4 65-250/55	65	80	100	250	-	343	191	-	-	-	200	-	-	265	130	-	345	450	605	140	97
SHE4 80-160/15	80	100	125	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	523	160	55
SHE4 80-160/22A	80	100	125	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	547	160	63
SHE4 80-160/22	80	100	125	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	547	160	66
SHE4 80-200/30	80	100	125	250	-	-	168	-	-	-	180	-	-	265	130	-	345	430	578	160	69
SHE4 80-200/40	80	100	125	250	-	315	168	-	-	-	180	-	-	265	130	-	345	430	623	160	88
SHE4 80-250/55	80	100	125	280	-	343	191	-	-	-	200	-	-	303	210	-	383	480	630	160	102
SHE4 80-250/75	80	100	125	280	-	343	191	-	-	-	200	-	-	303	210	-	383	480	630	160	106
SHE4 80-250/110	80	100	125	280	208	-	240	49	5	40	200	304	210	304	254	15	383	480	719	160	145

sh-she4-4p50-en_d_td

SHS4 SERIES
Dimensions and weights at 50 Hz, 4 poles



DN	D	M	G	HOLES		MAX.
				N°	DIA.	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

SHS4 SERIES
Dimensions and weights at 50 Hz, 4 poles

PUMP TYPE	DIMENSIONS (mm)																					WEIGHT
	PUMP								SUPPORT									B	H	L	k	
	DNM	DNA	a	f	h2	w	w1	x	c		c1	h1	m	m1	n	n1	s		max			kg
SHS4 25-250/07	25	50	100	155	225	-	-	128	-	-	-	180	-	-	265	130	-	345	405	486	98	42
SHS4 25-250/11	25	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	49
SHS4 25-250/15	25	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	50
SHS4 32-250/07	32	50	100	155	225	-	-	128	-	-	-	180	-	-	265	130	-	345	405	486	98	42
SHS4 32-250/11	32	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	49
SHS4 32-250/15	32	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	50
SHS4 40-200/07	40	65	100	155	180	-	-	128	-	-	-	160	-	-	230	130	-	284	340	486	100	31
SHS4 40-200/11	40	65	100	155	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	553	100	37
SHS4 40-250/11	40	65	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	107	51
SHS4 40-250/15	40	65	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	107	64
SHS4 40-250/22	40	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	68
SHS4 50-160/07	50	65	100	155	180	-	-	128	-	-	-	160	-	-	210	130	-	253	340	486	104	30
SHS4 50-160/11	50	65	100	155	180	-	-	134	-	-	-	160	-	-	210	130	-	253	340	553	104	36
SHS4 50-200/11	50	65	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	104	49
SHS4 50-200/15	50	65	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	104	52
SHS4 50-250/22A	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	58
SHS4 50-250/22	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	59
SHS4 50-250/30	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	618	107	65
SHS4 65-160/05	65	80	100	155	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	518	130	34
SHS4 65-160/07	65	80	100	155	200	-	-	128	-	-	-	160	-	-	245	130	-	310	360	486	130	38
SHS4 65-160/11A	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	46
SHS4 65-160/11	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	48
SHS4 65-160/15	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	51
SHS4 65-200/15	65	80	100	155	225	-	-	134	-	-	-	180	-	-	245	130	-	310	405	553	130	54
SHS4 65-200/22	65	80	100	165	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	587	130	71
SHS4 65-200/30	65	80	100	165	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	618	130	72
SHS4 65-250/40	65	80	100	165	250	-	380	168	-	-	-	200	-	-	265	130	-	345	450	663	140	97
SHS4 65-250/55	65	80	100	192	250	-	435	191	-	-	-	200	-	-	265	130	-	345	450	697	140	104
SHS4 80-160/15	80	100	125	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	578	160	59
SHS4 80-160/22A	80	100	125	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	612	160	67
SHS4 80-160/22	80	100	125	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	612	160	67
SHS4 80-200/30	80	100	125	165	250	-	-	168	-	-	-	180	-	-	265	130	-	345	430	643	160	72
SHS4 80-200/40	80	100	125	165	250	-	380	168	-	-	-	180	-	-	265	130	-	345	430	688	160	88
SHS4 80-250/55	80	100	125	192	280	-	435	191	-	-	-	200	-	-	303	210	-	383	480	722	160	107
SHS4 80-250/75	80	100	125	192	280	-	435	191	-	-	-	200	-	-	303	210	-	383	480	722	160	113
SHS4 80-250/110	80	100	125	222	280	330	-	240	49	5	40	200	304	210	304	254	15	383	480	841	160	153

sh-shs4-4p50-en_d_td

e-SV™ Series

1SV, 3SV, 5SV, 10SV, 15SV, 22SV

The New e-SV™ pumps are tough, efficient and built to last. Thanks to a unique combination of new hydraulic design and higher efficiency motor, the e-SV™ delivers lower overall life-cycle costs and superior efficiency compared to most pumps available today.

Specifications

Delivery: up to 29 m^3/h
Head: up to 265 m
Power supply: three-phase and singlephase 50 and 60 Hz
Power:
- Single-phase version: 220-240 V, 50 Hz.
- Three-phase version:
220-240/380-415 V, 50 Hz for power up to 3 kW, 380-415/660-690 V, 50 Hz for power above 3 kW.
Maximum operating pressure:
16 - 25 bar (40 bar option available)
Temperature of pumped liquid: from -30°C to +120°C (up to +150°C as option)
Insulation class: 155 (F)
Protection: IP5

Materials

Pump body: Stainless steel
Impeller: Stainless steel
Diffuser: Stainless steel
Mechanical seal: Silicon Carbide - Carbon - EPDM (other options available)
Fill and drain plugs: Stainless steel
Elastomers: EPDM (other options available)

Applications

Booster set and water supply systems

Handling of water, free of suspended solids, in the civil, industrial and agricultural sectors

Irrigation systems

Wash systems

Water treatment plants

Handling of moderately aggressive liquids, demineralised water, water and glycol, etc

Circulation of hot and cold water for heating, cooling and conditioning systems

Boiler feed

Pharmaceutical industries

Food & beverage industries

Options

Hydrovar Variable Speed Drive



For a complete list of technical information, consult www.lowara.com

e-SV™ Series

33SV, 46SV, 66SV, 92SV, 125SV

Multi-stage vertical pumps with impellers, diffusers and outer sleeve entirely made of stainless steel, with pump body and upper head in cast iron in the standard versions. The N versions are entirely made of stainless steel.
This reliable and technologically advanced series owes its success to its flexibility of application, ease of maintenance (the mechanical seal can be replaced without removing the motor), high performance and silent running.

Specifications

Delivery: up to 160 m^3/h
Head: up to 330 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: standard motors from 2.2 kW to 55 kW
PLM surface motors have efficiency values that fall within the range normally referred to as efficiency class IE2 (EFF1).
Maximum operating pressure:
PN16, PN25 PN40 for sizes SV 33, 46;
PN16, PN25 for sizes SV66, 92, 125
Temperature of pumped liquid:
-30°C to +120°C, standard version
Protection: IP55
Insulation class: 155 (F)

Materials

Pump body: Cast iron (stainless steel for N version)
Adaptor: Cast iron
Impeller, diffuser, sleeve: AISI 316 stainless steel
Mechanical seal: Siliconcarbide/ Carbon/EPDM
Elastomers: EPDM
Fill and drain plugs: Stainless steel

Applications

Water supply and pressure boosting

Water treatment

Light industry

Irrigation and farming

Heating, ventilation and air-conditioning

Options

- Hydrovar Variable Speed Drive
- Mechanical seal materials
- Horizontal version
- Counter flange kits
- Atex motor, Group II, category 3G



For a complete list of technical information, consult www.lowara.com

Special versions on request

More and more customers require specific solutions for satisfying particular application requirements. To meet their needs, Lowara offers a series of variants for personalising the e-SV™ pumps.

• **High pressure pump:**
the e-SV™ pump was especially designed to withstand maximum operating pressures of 40 bar. In case of elevated input pressures, it can be used as a single pump or in a system with 2 pumps connected in series and reach heads of over 400 metres.

• **Horizontal version:**
the e-SV™ pump is supplied with motor and pump support brackets for specific applications requiring horizontal assembly.

• **Version with low NPSH:**
the e-SV™ pump was especially designed for boiler charging applications with an elevated risk of cavitation.

• **High temperature version:**
the e-SV™ pump was especially developed to operate with water at high temperatures (up to 180°C).

• **Passivated and electro-polished version:**
all e-SV™ pump components are passivated and electro-polished in order to reduce the risk of corrosion and to comply with specific hygiene requirements.

• **Version with stainless steel base:**
the e-SV™ pump can be supplied with a stainless steel base for applications in aggressive conditions.

• **Motors:**
- 4-pole motor.
- Motor with anti-condensate option for applications in damp conditions.
- Motor with overheating protection integrated: thermal switches or PTC sensors.
- ATEX motor for operating in explosive atmospheres.
- The direction of the motor terminal block can be adjusted.
- Motor protected to IP65.
- Special voltages.

• **Elastomers:**
as well as the EPDM elastomers used in the standa d version, other materials are available to satisfy specific customer requirements.



1, 3, 5SV SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY													
			l/min 0	12	20	25	30	35	40	45	50	60	73	100	120	141
			m^3/h 0	0,7	1,2	1,5	1,8	2,1	2,4	2,7	3,0	3,6	4,4	6,0	7,2	8,5
	kW	HP	H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
1SV02	0,37	0,5	12,2	12,2	11,5	10,7	9,5	7,9	6,0							
1SV03	0,37	0,5	18,0	18,0	17,0	15,7	13,8	11,4	8,4							
1SV04	0,37	0,5	23,7	23,5	22,1	20,4	17,9	14,6	10,6							
1SV05	0,37	0,5	29,3	28,9	27,0	24,8	21,6	17,4	12,5							
1SV06	0,37	0,5	34,8	34,2	31,7	28,9	25,0	20,0	14,0							
1SV07	0,37	0,5	40,2	39,2	36,1	32,7	28,1	22,2	15,2							
1SV08	0,55	0,75	48,1	47,9	45,2	41,8	36,8	30,4	22,4							
1SV09	0,55	0,75	53,7	53,4	50,4	46,4	40,8	33,5	24,6							
1SV10	0,55	0,75	59,4	59,0	55,5	51,0	44,7	36,6	26,6							
1SV11	0,55	0,75	65,1	64,5	60,4	55,5	48,5	39,5	28,5							
1SV12	0,75	1	73,3	73,1	69,3	64,3	57,1	47,6	35,7							
1SV13	0,75	1	79,2	78,9	74,8	69,4	61,6	51,2	38,2							
1SV15	0,75	1	90,9	90,5	85,6	79,3	70,1	58,1	43,1							
1SV17	1,1	1,5	105,2	104,9	100,0	93,1	82,6	68,6	51,2							
1SV19	1,1	1,5	117,0	116,7	111,0	103,2	91,5	75,8	56,3							
1SV22	1,1	1,5	134,6	134,1	127,4	118,1	104,4	86,1	63,5							
1SV25	1,5	2	152,6	152,4	145,5	135,4	120,0	99,1	72,7							
1SV27	1,5	2	164,3	164,0	156,4	145,4	128,8	106,1	77,5							
1SV30	1,5	2	181,7	181,3	172,6	160,1	141,2	115,7	83,9							
1SV32	2,2	3	197,2	197,1	188,4	175,8	156,5	130,0	96,3							
1SV34	2,2	3	209,2	208,9	199,8	186,3	165,5	137,1	101,2							
1SV37	2,2	3	225,9	224,9	216,1	201,9	179,3	148,1	108,7							
3SV02	0,37	0,5	14,9		14,5	14,3	14,0	13,5	13,0	12,4	11,7	9,8	6,5			
3SV03	0,37	0,5	22,0		21,2	20,8	20,3	19,6	18,7	17,7	16,6	13,7	8,6			
3SV04	0,37	0,5	28,9		27,7	27,1	26,2	25,2	23,9	22,5	20,8	16,8	10,1			
3SV05	0,55	0,75	37,2		36,4	35,8	35,0	33,9	32,6	31,1	29,2	24,5	16,2			
3SV06	0,55	0,75	44,4		43,4	42,6	41,6	40,2	38,6	36,6	34,3	28,5	18,5			
3SV07	0,75	1	52,5		51,8	51,0	50,0	48,7	47,0	45,0	42,5	36,1	24,6			
3SV08	0,75	1	60,0		59,1	58,2	57,0	55,4	53,4	51,0	48,1	40,7	27,5			
3SV09	1,1	1,5	67,7		66,8	65,8	64,5	62,8	60,6	57,9	54,6	46,4	31,6			
3SV10	1,1	1,5	75,0		73,8	72,7	71,3	69,3	66,9	63,8	60,2	51,0	34,5			
3SV11	1,1	1,5	82,3		81,0	79,7	78,0	75,8	73,1	69,7	65,7	55,5	37,4			
3SV12	1,1	1,5	89,6		87,8	86,4	84,5	82,1	79,1	75,5	71,1	59,9	40,1			
3SV13	1,5	2	98,1		96,7	95,4	93,5	91,0	87,8	83,9	79,2	67,2	45,6			
3SV14	1,5	2	105,6		104,1	102,5	100,4	97,7	94,2	89,9	84,8	71,8	48,5			
3SV16	1,5	2	119,9		117,8	116,1	113,6	110,5	106,5	101,6	95,8	80,9	54,2			
3SV19	2,2	3	144,3		142,3	140,3	137,5	133,9	129,2	123,5	116,7	99,1	67,6			
3SV21	2,2	3	159,3		156,9	154,6	151,4	147,3	142,1	135,7	128,0	108,5	73,6			
3SV23	2,2	3	174,0		171,1	168,5	165,0	160,4	154,7	147,6	139,2	117,7	79,4			
3SV25	2,2	3	188,5		186,1	183,3	179,3	174,1	167,6	159,7	150,3	126,6	84,8			
3SV27	3	4	204,4		201,7	198,8	194,7	189,4	182,7	174,4	164,5	139,4	94,4			
3SV29	3	4	219,3		216,0	212,8	208,3	202,6	195,3	186,4	175,7	148,6	100,2			
3SV31	3	4	233,8		230,3	226,8	222,0	215,7	207,8	198,2	186,7	157,6	106,0			
3SV33	3	4	248,5		245,3	241,5	236,2	229,3	220,7	210,2	197,7	166,3	111,2			
5SV02	0,37	0,5	14,8						13,8	13,7	13,4	13,0	12,2	10,2	8,2	5,7
5SV03	0,55	0,75	21,8						19,9	19,6	19,2	18,4	17,1	13,9	10,8	6,9
5SV04	0,55	0,75	30,0						28,2	27,9	27,5	26,6	25,2	21,2	17,3	12,2
5SV05	0,75	1	38,0						36,4	36,0	35,5	34,5	32,9	28,2	23,5	17,1
5SV06	1,1	1,5	45,3						43,7	43,3	42,8	41,6	39,6	33,9	28,1	20,3
5SV07	1,1	1,5	52,7						50,7	50,1	49,5	48,1	45,8	39,1	32,2	23,1
5SV08	1,1	1,5	60,1						57,6	57,0	56,2	54,6	51,8	44,1	36,2	25,8
5SV09	1,5	2	68,0						65,5	64,8	64,0	62,2	59,3	50,6	41,9	30,2
5SV10	1,5	2	75,5						72,4	71,7	70,8	68,7	65,4	55,7	46,0	33,0
5SV11	1,5	2	82,8						79,3	78,4	77,5	75,2	71,4	60,7	49,9	35,6
5SV12	2,2	3	90,8						88,0	87,0	86,0	83,4	79,3	67,4	55,7	40,5
5SV13	2,2	3	98,3						95,0	94,0	92,8	90,0	85,5	72,6	59,9	43,5
5SV14	2,2	3	105,7						102,0	100,9	99,6	96,6	91,7	77,8	64,0	46,3
5SV15	2,2	3	113,1						109,0	107,8	106,4	103,1	97,8	82,8	68,1	49,1
5SV16	2,2	3	120,5						115,9	114,6	113,1	109,6	103,9	87,8	72,1	51,8
5SV18	3	4	135,8						131,1	129,7	128,0	124,1	117,8	99,9	82,3	59,5
5SV21	3	4	157,9						152,0	150,3	148,3	143,6	136,1	114,9	94,2	67,6
5SV23	4	5,5	174,4						168,9	167,2	165,1	160,2	152,3	129,6	107,2	78,2
5SV25	4	5,5	189,2						183,1	181,1	178,9	173,5	164,8	140,1	115,7	84,1
5SV28	4	5,5	211,5						204,2	201,9	199,4	193,3	183,4	155,5	128,0	92,7
5SV30	5,5	7,5	227,0						219,8	217,5	214,8	208,4	198,1	168,5	139,3	101,5
5SV33	5,5	7,5	249,2						241,0	238,4	235,5	228,4	216,9	184,2	151,9	110,3

Performances in compliance with ISO 9906 - Annex A.

1-5sv-2p50-en_b_th

10, 15, 22SV SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY														
			l/min 0	83,34	100	133	170	183,34	233	270	330	350	400	430	460	483,33
			m^3/h 0	5,0	6,0	8,0	10,2	11,0	14,0	16,2	19,8	21,0	24,0	25,8	27,6	29,0
	kW	HP	H = TOTAL HEAD IN METRES OF COLUMN OF WATER														
10SV01	0,75	1	11,8	11,2	10,9	9,9	8,3	7,6	4,3								
10SV02	0,75	1	23,6	21,9	21,3	19,6	17,0	15,8	10,0								
10SV03	1,1	1,5	35,7	33,0	32,1	29,6	25,8	24,1	16,0								
10SV04	1,5	2	47,7	44,2	43,0	39,9	34,8	32,6	21,7								
10SV05	2,2	3	60,0	56,1	54,7	50,9	44,9	42,2	29,0								
10SV06	2,2	3	71,8	66,8	65,0	60,4	53,1	49,8	33,9								
10SV07	3	4	83,6	78,3	76,2	70,8	62,1	58,3	39,8								
10SV08	3	4	95,3	88,9	86,5	80,1	70,2	65,7	44,5								
10SV09	4	5,5	106,3	100,1	97,5	90,8	80,0	75,1	52,1								
10SV10	4	5,5	118,0	110,8	107,9	100,3	88,2	82,8	57,2								
10SV11	4	5,5	129,6	121,3	118,1	109,6	96,3	90,3	62,1								
10SV13	5,5	7,5	156,0	146,5	142,7	132,6	116,4	109,2	74,3								
10SV15	5,5	7,5	179,5	167,9	163,4	151,6	132,8	124,3	83,9								
10SV17	7,5	10	205,0	193,2	188,5	175,7	154,7	145,2	98,8								
10SV18	7,5	10	216,9	204,2	199,1	185,5	163,2	153,1	104,0								
10SV20	7,5	10	240,6	226,0	220,3	205,0	180,2	168,9	114,3								
10SV21	11	15	253,6	241,0	235,5	220,2	195,0	183,5	127,5								
15SV01	1,1	1,5	14,0			12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1				
15SV02	2,2	3	28,7			26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1				
15SV03	3	4	43,3			40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1				
15SV04	4	5,5	58,4			54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7				
15SV05	4	5,5	72,7			67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9				
15SV06	5,5	7,5	87,6			81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2				
15SV07	5,5	7,5	101,9			94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5				
15SV08	7,5	10	117,4			110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6				
15SV09	7,5	10	131,9			124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4				
15SV10	11	15	147,7			138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5				
15SV11	11	15	162,3			152,4	148,5	146,8	138,9	131,1	113,8	106,5	84,7				
15SV13	11	15	191,3			179,2	174,5	172,5	163,1	153,7	133,1	124,5	98,6				
15SV15	15	20	222,1			209,9	204,8	202,6	192,2	181,7	158,3	148,5	118,8				
15SV17	15	20	251,6			237,3	231,4	228,9	216,9	205,0	178,4	167,3	133,6				
22SV01	1,1	1,5	14,7					13,5	12,7	12,0	10,4	9,7	7,7	6,3	4,7	3,4	
22SV02	2,2	3	30,4					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5	
22SV03	3	4	45,4					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6	
22SV04	4	5,5	60,9					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0	
22SV05	5,5	7,5	76,0					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8	
22SV06	7,5	10	93,2					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6	
22SV07	7,5	10	108,5					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8	
22SV08	11	15	124,6					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2	
22SV09	11	15	140,1					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8	
22SV10	11	15	155,4					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3	
22SV12	15	20	186,1					178,6	172,9	166,8	152,9	147,0	129,1	115,9	100,7	87,4	
22SV14	15	20	216,6					207,7	200,9	193,7	177,4	170,4	149,4	133,9	116,1	100,6	
22SV17	18,5	25	263,5					252,8	244,7	236,0	216,2	207,8	182,3	163,6	142,0	123,2	

Performances in compliance with ISO 9906 - Annex A.

10-22sv-2p50-en_b_th

33, 46SV SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	250	300	367	417	500	583	667	750	900	1000
			m^3/h 0	15	18	22	25	30	35	40	45	54	60
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1A	2,2	3	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1	3	4	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2A	4	5,5	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1A	4	5,5	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2	5,5	7,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2A	5,5	7,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1A	7,5	10	64,5	61,3	60	58	56	51	45	37			
33SV3	7,5	10	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2A	7,5	10	82	78,8	77	74	72	66	58	47,2			
33SV4/1A	11	15	88,9	85	83	81	78	73	65	55,1			
33SV4	11	15	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2A	11	15	106	101,6	100	96	93	85	76	63			
33SV5/1A	11	15	112,7	107,2	105	102	99	92	82	70			
33SV5	15	20	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2A	15	20	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1A	15	20	139,1	133,5	131	128	124	116	105	90,4			
33SV6	15	20	145,6	139	137	133	129	121	110	96,1			
33SV7/2A	15	20	156	149,9	147	143	138	128	115	98,2			
33SV7/1A	18,5	25	163,3	156,6	154	150	145	136	123	106,2			
33SV7	18,5	25	170,3	162,8	160	156	152	142	130	113,3			
33SV8/2A	18,5	25	180,6	173,7	171	166	161	150	135	115,3			
33SV8/1A	18,5	25	187,4	179,5	177	171	166	156	141	121,7			
33SV8	22	30	194,1	185,1	182	177	172	161	147	128			
33SV9/2A	22	30	202,1	194,1	191	185	179	166	150	127,9			
33SV9/1A	22	30	210,2	201,2	198	192	186	174	157	135,9			
33SV9	22	30	216,8	206,8	204	198	193	181	165	143,7			
33SV10/2A	22	30	226,4	217,2	213	207	200	186	168	143,9			
33SV10/1A	30	40	234,5	225	221	215	209	196	178	154,2			
33SV10	30	40	241,8	231,3	228	222	216	203	185	162,2			
33SV11/2A	30	40	252	244	240	233	226	211	190	163,7			
33SV11/1A	30	40	259	249,2	245	238	232	217	197	171			
33SV11	30	40	265,7	253,6	250	243	236	222	203	176,9			
33SV12/2A	30	40	275,9	266,2	262	254	246	229	207	178,3			
33SV12/1A	30	40	282,8	271,5	267	260	252	236	214	185,6			
33SV12	30	40	289,8	276,7	272	265	258	242	221	192,9			
33SV13/2A	30	40	300,5	291,1	286	278	270	252	228	197,6			
33SV13/1A	30	40	306,9	294,9	290	282	274	256	233	202,4			
46SV1/1A	3	4	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1	4	5,5	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2A	5,5	7,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2	7,5	10	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2A	11	15	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3	11	15	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2A	15	20	92,4			90,7	90	87	83	79	73	58	45,6
46SV4	15	20	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2A	18,5	25	117,2			114,8	113	110	106	100	93	75	60,2
46SV5	18,5	25	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2A	22	30	143,7			139,3	138	134	129	122	113	92	73,4
46SV6	22	30	161			149,9	148	144	139	132	124	104	86
46SV7/2A	30	40	171,3			164,9	163	158	152	144	134	110	88,6
46SV7	30	40	188,6			175,5	173	168	162	155	145	122	101,2
46SV8/2A	30	40	198,2			190	188	182	176	166	155	127	103,1
46SV8	30	40	213,1			198,6	196	191	184	175	164	137	112,6
46SV9/2A	30	40	224,8			214,5	212	206	198	187	174	143	116
46SV9	37	50	240,9			225,2	222	217	209	199	187	157	130,2
46SV10/2A	37	50	252,7			241,1	238	232	223	212	198	164	133,9
46SV10	37	50	267,6			250,3	247	241	232	221	208	174	144,8
46SV11/2A	45	60	280,4			267,4	264	258	249	237	222	184	151,1
46SV11	45	60	295,5			276,4	273	266	257	245	230	194	161,3
46SV12/2A	45	60	307,3			292,5	289	282	272	259	243	202	165,8
46SV12	45	60	321,8			301	297	290	280	267	250	210	175
46SV13/2A	45	60	332,5			316,2	312	304	292	277	259	214	175

Performances in compliance with ISO 9906 - Annex A.

33-46sv-2p50-en_c_th

66, 92, 125SV SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY												
			l/min 0	500	600	700	750	900	1000	1200	1300	1417	1600	1800	2000
			m^3/h 0	30	36	42	45	54	60	72	78	85	96	108	120
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1A	4	5,5	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1	5,5	7,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2A	7,5	10	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1A	11	15	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2	11	15	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2A	15	20	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1A	15	20	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3	18,5	25	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2A	18,5	25	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1A	22	30	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4	22	30	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2A	30	40	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1A	30	40	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5	30	40	152	140,4	137	133	131	125	119	107	99	88,5			
66SV6/2A	30	40	169,5	155,6	152	147	144	136	129	113	103	88,1			
66SV6/1A	30	40	176	162	158	153	151	143	136	121	111	97,2			
66SV6	37	50	182,4	168,5	164	160	158	150	143	128	119	106,2			
66SV7/2A	37	50	199,9	183,7	179	174	171	161	153	134	122	105,8			
66SV7/1A	37	50	206,4	190,1	185	180	177	168	160	142	131	114,9			
66SV7	45	60	212,8	196,5	192	187	184	174	167	150	139	123,9			
66SV8/2A	45	60	230,3	211,8	206	200	197	186	177	156	142	123,5			
66SV8/1A	45	60	236,8	218,2	213	207	204	193	184	163	150	132,6			
66SV8	45	60	243,2	224,6	219	213	210	199	191	171	159	141,6			
92SV1/1A	5,5	7,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1	7,5	10	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2A	11	15	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2	15	20	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2A	18,5	25	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3	22	30	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2A	30	40	115,7				104	100	97	90	87	82	74	63	49
92SV4	30	40	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2A	37	50	149				133,2	128	124	116	111	105	95	81	64,6
92SV5	37	50	166,4				146,3	140	135	126	121	115	106	94	78,1
92SV6/2A	45	60	183,3				163,1	156	152	141	135	129	117	101	81
92SV6	45	60	200,9				175,9	168	163	151	146	139	127	113	94,2
92SV7/2A	45	60	216,8				192,4	184	179	167	160	152	138	120	96,7

Performances in compliance with ISO 9906 - Annex A.

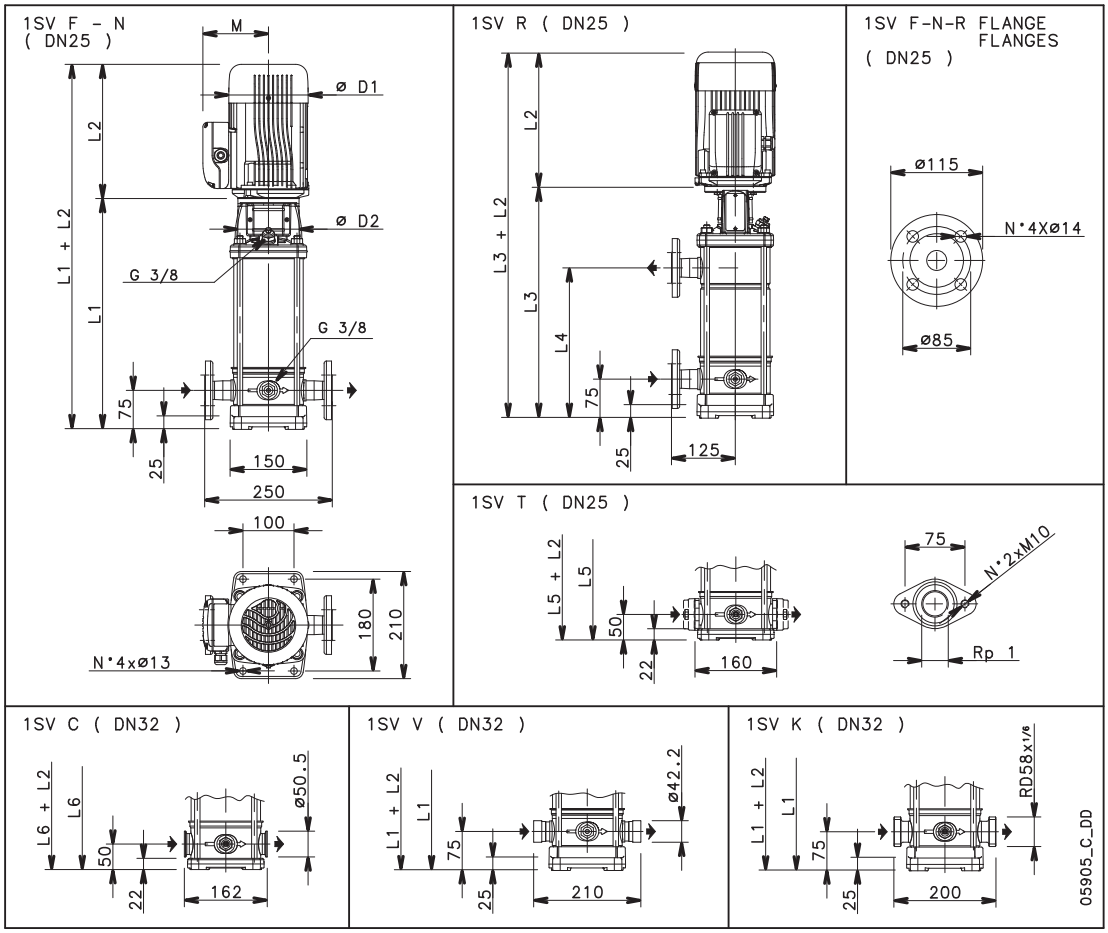
66-92sv-2p50-en_a_th

PUMP TYPE	RATED POWER		Q = DELIVERY													
			l/min 0	500	600	750	900	1000	1200	1416	1700	1900	2000	2150	2300	2666
			m^3/h 0	30,0	36,0	45,0	54,0	60,0	72,0	85,0	102,0	114,0	120,0	129,0	138,0	160,0
	kW	HP	H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
125SV1	7,5	10	27,6					20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2	15	20	53,8					44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3	22	30	80,7					66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4	30	40	107,6					88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5	37	50	134,5					110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0
125SV6	45	60	161,4					133,1	127,6	121,1	111,3	103,2	98,7	91,3	83,1	58,8
125SV7	55	75	188,3					155,2	148,8	141,3	129,9	120,4	115,2	106,6	96,9	68,6
125SV8/2A	55	75	211,5					174,4	167,2	158,7	145,9	135,3	129,4	119,7	108,9	77,1

Performances in compliance with ISO 9906 - Annex A.

125sv-2p50_a_th

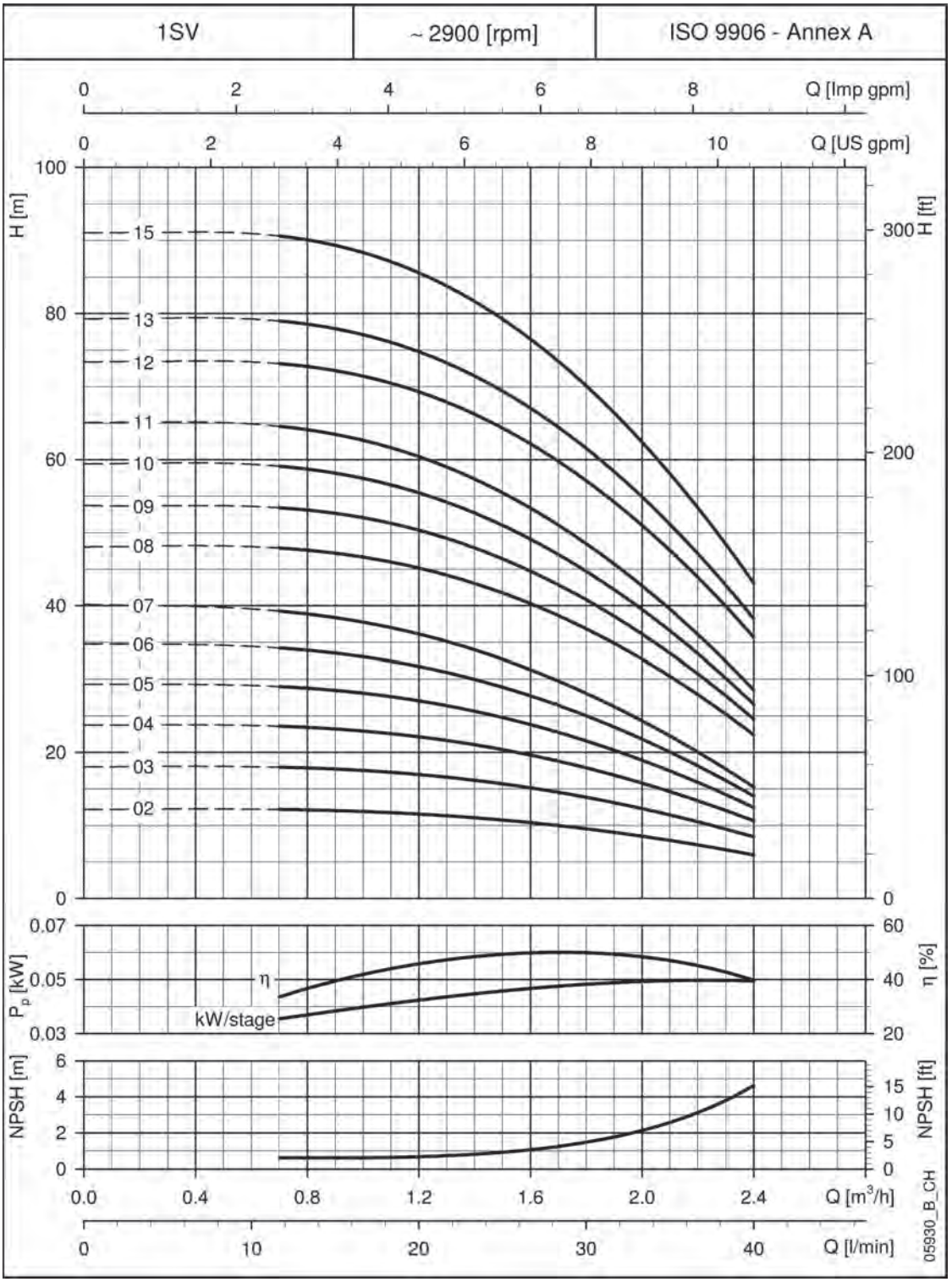
SV1 SERIES, 2 TO 15 STAGES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)													WEIGHT kg	
				L2						M		D1					ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	L6	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
1SV02	0,37	71	278	209	209	-	-	253	253	111	111	120	120	105	8,3	13
1SV03	0,37	71	278	209	209	-	-	253	253	111	111	120	120	105	8,6	13,4
1SV04	0,37	71	298	209	209	-	-	273	273	111	111	120	120	105	9	13,8
1SV05	0,37	71	318	209	209	-	-	293	293	111	111	120	120	105	9,4	14,2
1SV06	0,37	71	338	209	209	-	-	313	313	111	111	120	120	105	9,8	14,6
1SV07	0,37	71	358	209	209	358	207	333	333	111	111	120	120	105	10,2	14,9
1SV08	0,55	71	378	231	231	378	227	353	353	121	121	140	140	105	10,5	15,2
1SV09	0,55	71	398	231	231	398	247	373	373	121	121	140	140	105	10,9	15,6
1SV10	0,55	71	418	231	231	418	267	393	393	121	121	140	140	105	11,3	16
1SV11	0,55	71	438	231	231	438	287	413	413	121	121	140	140	105	11,7	16,4
1SV12	0,75	80	468	226	263	468	307	443	443	121	129	140	155	120	12,7	23,7
1SV13	0,75	80	488	226	263	488	327	463	463	121	129	140	155	120	13,1	24,1
1SV15	0,75	80	528	226	263	528	367	503	503	121	129	140	155	120	13,9	25

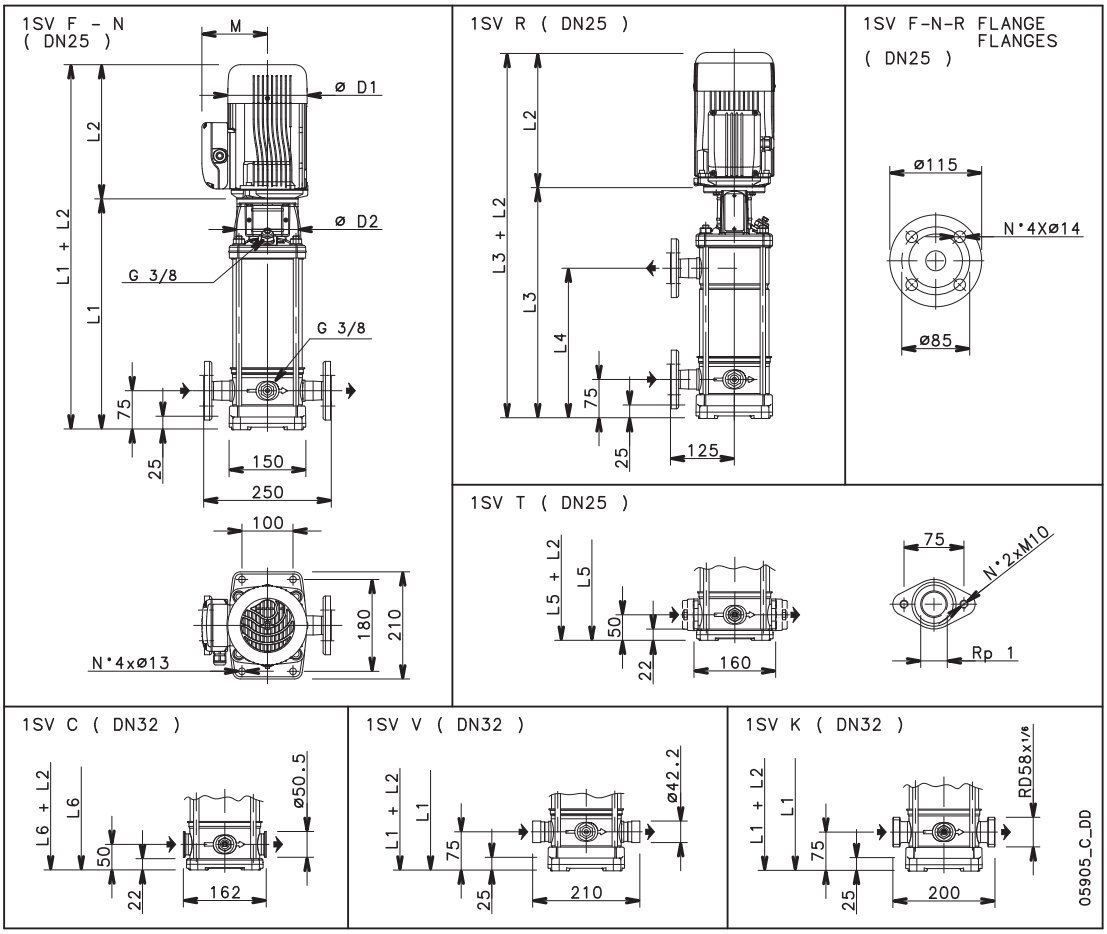
1sv-1-2p50-en_a_td

1SV SERIES, 2 TO 15 STAGES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

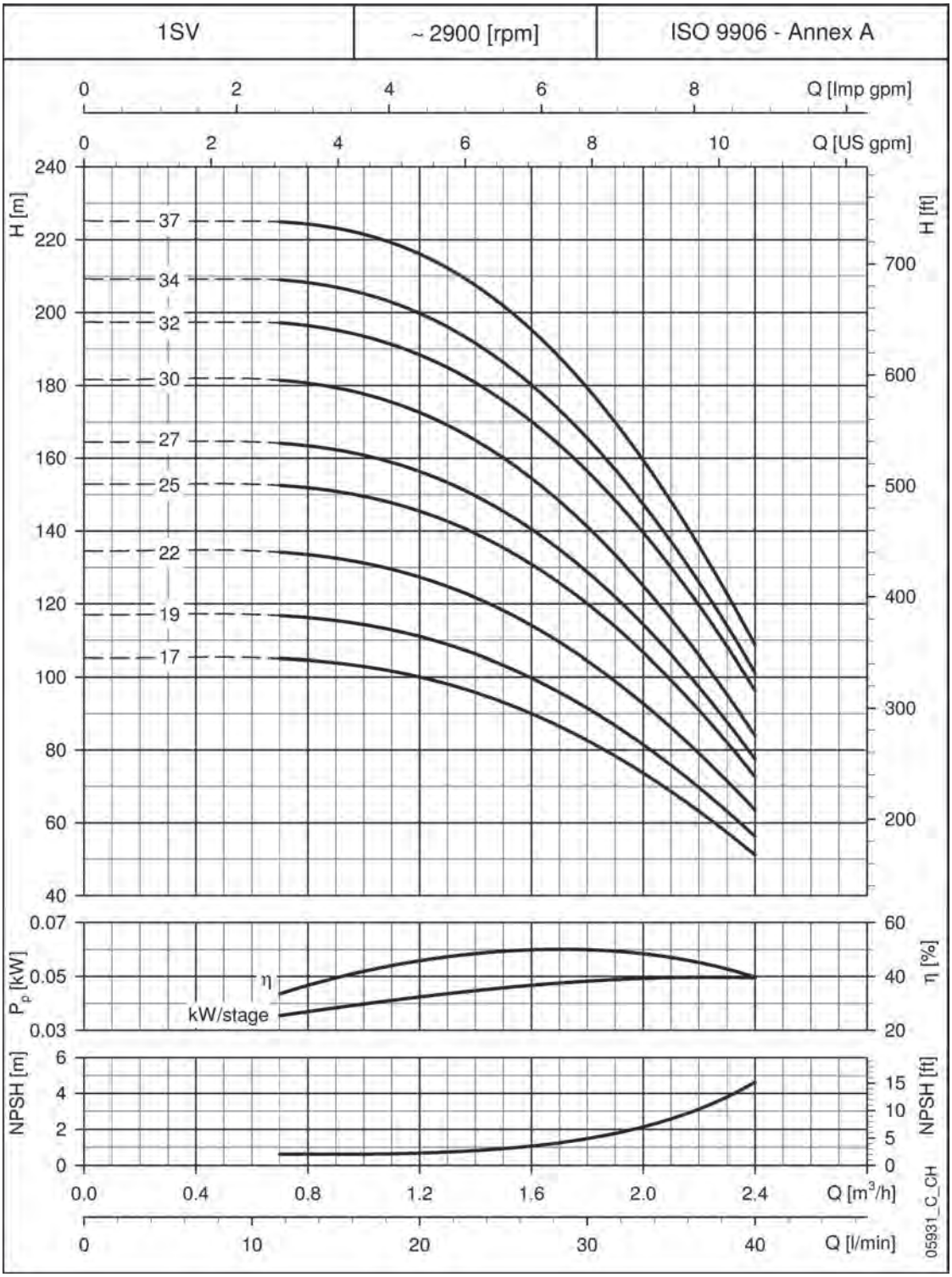
1SV SERIES, 17 TO 37 STAGES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)													WEIGHT kg	
				L2						M		D1					ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	L6	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
1SV17	1,1	80	568	263	263	568	407	543	543	137	129	155	155	120	14,7	28
1SV19	1,1	80	608	263	263	608	447	583	583	137	129	155	155	120	15,5	28,8
1SV22	1,1	80	668	263	263	668	507	643	643	137	129	155	155	120	16,7	30
1SV25	1,5	90	738	263	268	738	567	713	713	137	137	155	178	140	18,7	33
1SV27	1,5	90	778	263	268	778	607	-	753	137	137	155	178	140	19,5	34
1SV30	1,5	90	838	263	268	838	667	-	813	137	137	155	178	140	20,7	35
1SV32	2,2	90	878	298	268	878	707	-	853	151	137	174	178	140	21,5	37
1SV34	2,2	90	918	298	268	918	747	-	893	151	137	174	178	140	22,3	38
1SV37	2,2	90	978	298	268	978	807	-	953	151	137	174	178	140	23,5	39

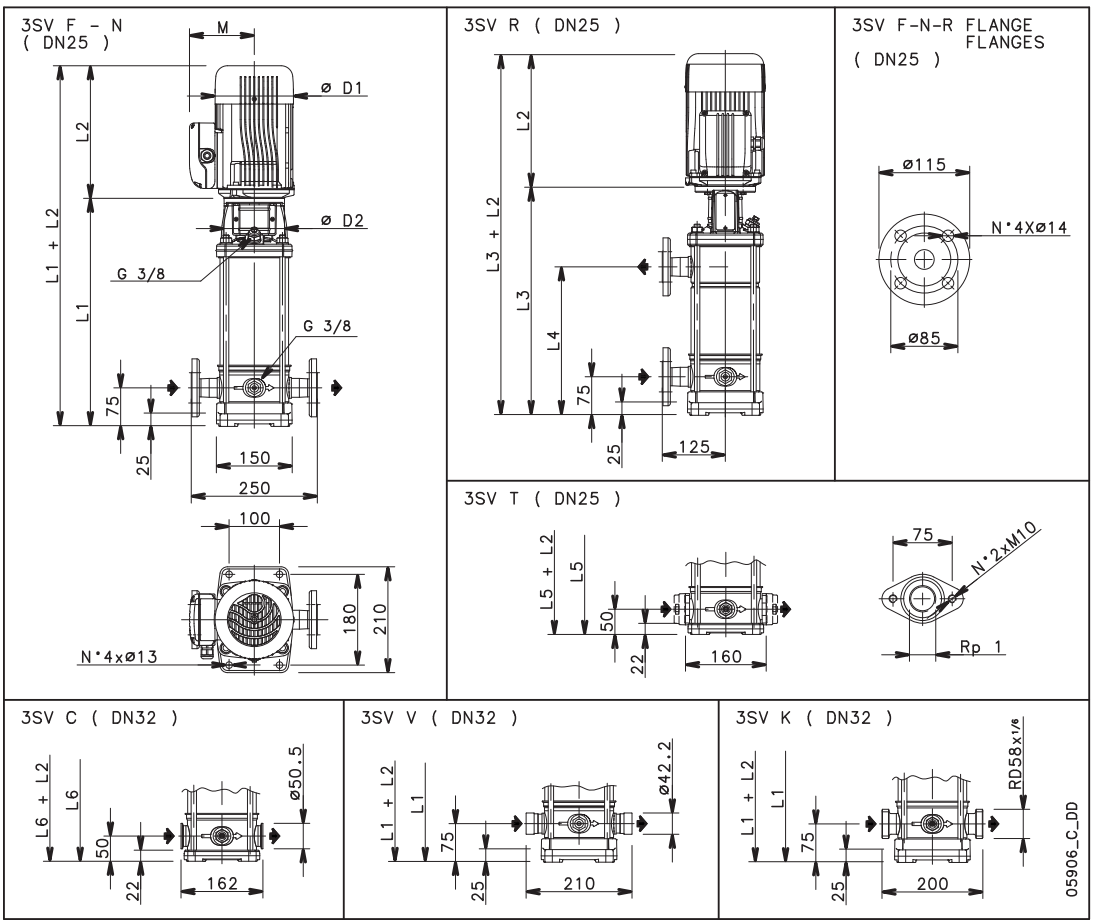
1sv-2-2p50-en_b_td

1SV SERIES, 17 TO 37 STAGES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

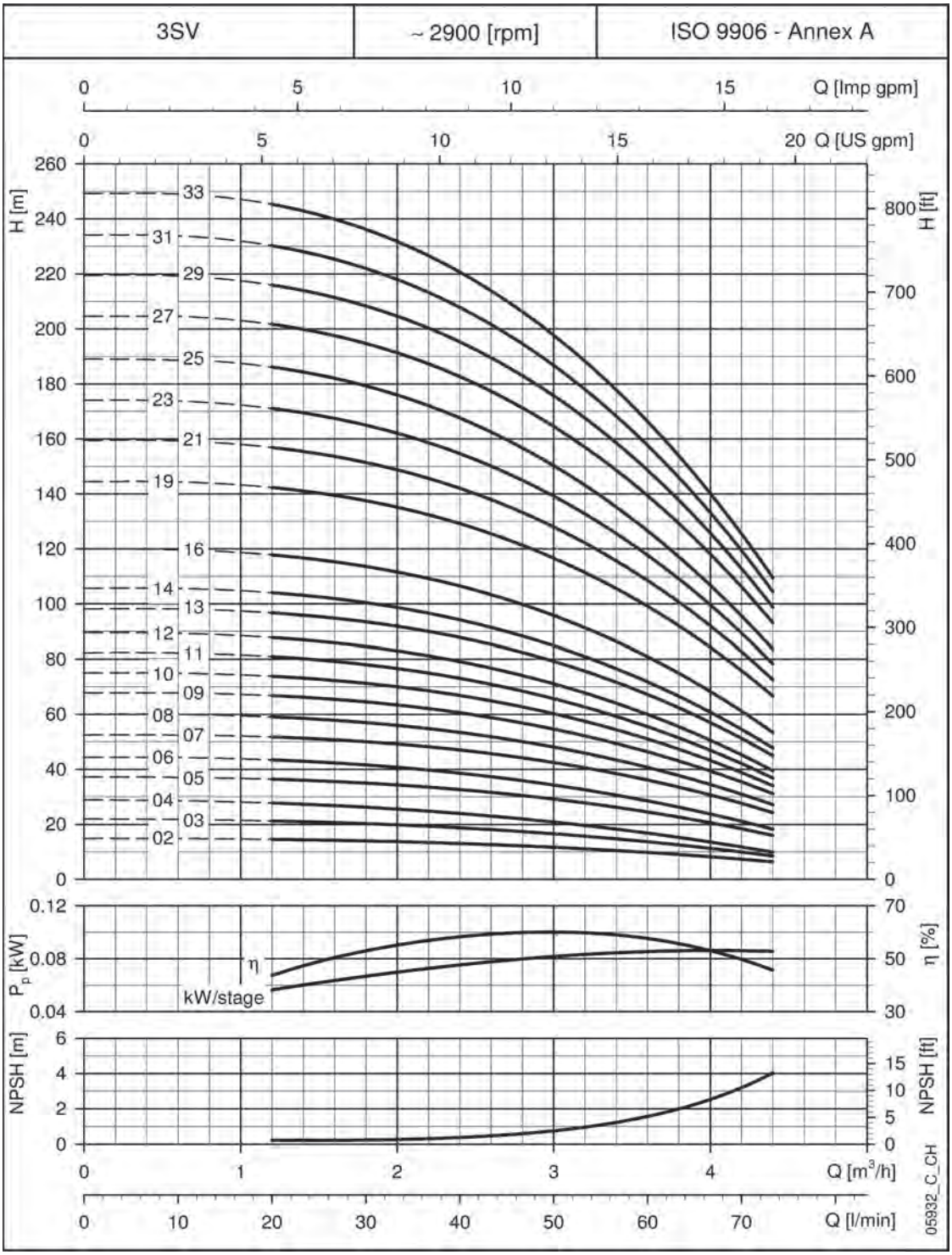
3SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)													WEIGHT kg	
				L2						M		D1					ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	L6	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
3SV02	0,37	71	278	209	209	-	-	253	253	111	111	120	120	105	8	12,8
3SV03	0,37	71	278	209	209	-	-	253	253	111	111	120	120	105	8,4	13,2
3SV04	0,37	71	298	209	209	-	-	273	273	111	111	120	120	105	8,8	13,6
3SV05	0,55	71	318	231	231	-	-	293	293	121	121	140	140	105	9,2	14
3SV06	0,55	71	338	231	231	-	-	313	313	121	121	140	140	105	9,7	16,4
3SV07	0,75	80	368	226	263	368	207	343	343	121	129	140	155	120	10,9	16,8
3SV08	0,75	80	388	226	263	388	227	363	363	121	129	140	155	120	11,3	21,9
3SV09	1,1	80	408	263	263	408	247	383	383	137	129	155	155	120	11,7	24,4
3SV10	1,1	80	428	263	263	428	267	403	403	137	129	155	155	120	12,1	24,8
3SV11	1,1	80	448	263	263	448	287	423	423	137	129	155	155	120	12,5	25,2
3SV12	1,1	80	468	263	263	468	307	443	443	137	129	155	155	120	13,3	25,6
3SV13	1,5	90	498	263	268	498	327	473	473	137	137	155	178	140	14	28
3SV14	1,5	90	518	263	268	518	347	493	493	137	137	155	178	140	14,4	28,5
3SV16	1,5	90	558	263	268	558	387	533	533	137	137	155	178	140	15,2	29
3SV19	2,2	90	618	298	268	618	447	593	593	151	137	174	178	140	16,4	32,5
3SV21	2,2	90	658	298	268	658	487	633	633	151	137	174	178	140	17,2	33
3SV23	2,2	90	698	298	268	698	527	-	673	151	137	174	178	140	18	34
3SV25	2,2	90	738	298	268	738	567	-	713	151	137	174	178	140	18,9	35
3SV27	3	100	788	-	288	788	607	-	763	-	137	-	178	160	20,7	40
3SV29	3	100	828	-	288	828	647	-	803	-	137	-	178	160	21,5	41
3SV31	3	100	868	-	288	868	687	-	843	-	137	-	178	160	22,3	42
3SV33	3	100	908	-	288	908	727	-	883	-	137	-	178	160	23,1	43

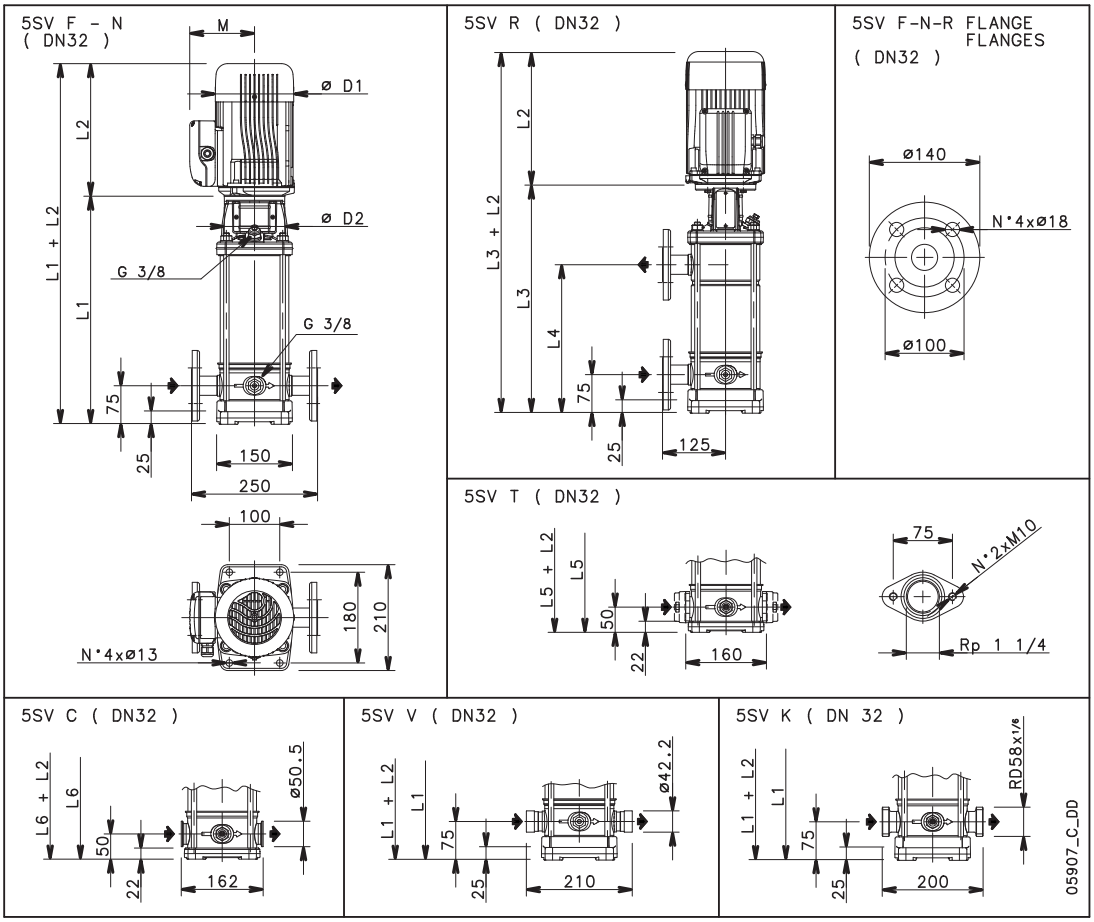
3sv-2p50-en_b_td

3SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

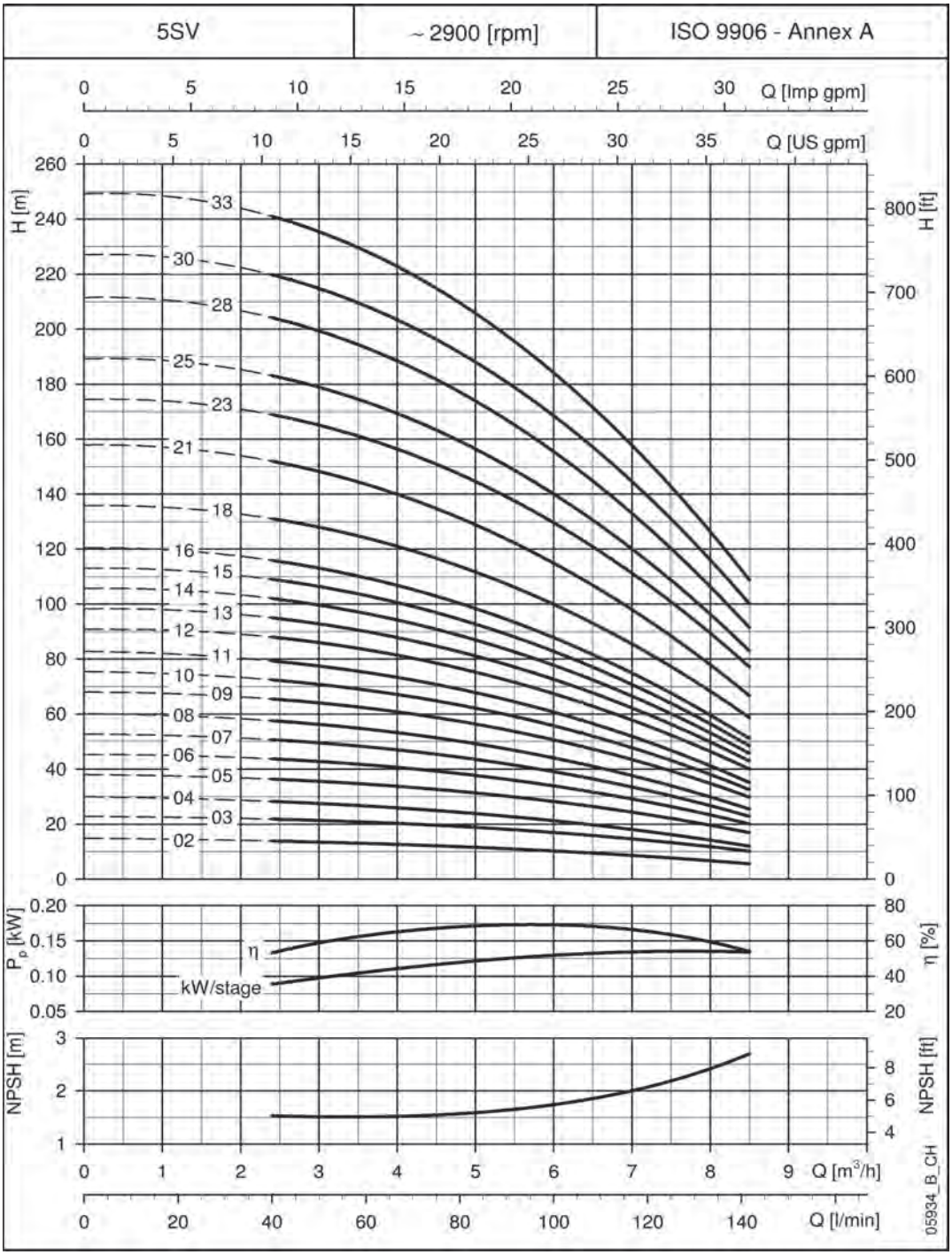
5SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)													WEIGHT kg	
				L2						M		D1					ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	L6	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
5SV02	0,37	71	268	209	209	-	-	243	243	111	111	120	120	105	8,4	13,2
5SV03	0,55	71	293	231	231	-	-	268	268	121	121	140	140	105	8,9	15,7
5SV04	0,55	71	318	231	231	-	-	293	293	121	121	140	140	105	9,4	16,1
5SV05	0,75	80	353	226	263	-	-	328	328	121	129	140	155	120	10,5	21,5
5SV06	1,1	80	378	263	263	-	-	353	353	137	129	155	155	120	11	23,6
5SV07	1,1	80	403	263	263	403	242	378	378	137	129	155	155	120	11,5	24
5SV08	1,1	80	428	263	263	428	267	403	403	137	129	155	155	120	12,1	24,5
5SV09	1,5	90	463	263	268	463	292	438	438	137	137	155	178	140	12,7	27
5SV10	1,5	90	488	263	268	488	317	463	463	137	137	155	178	140	13,1	27,5
5SV11	1,5	90	513	263	268	513	342	488	488	137	137	155	178	140	13,6	28
5SV12	2,2	90	538	298	268	538	367	513	513	151	137	174	178	140	14,1	30,5
5SV13	2,2	90	563	298	268	563	392	538	538	151	137	174	178	140	14,6	31
5SV14	2,2	90	588	298	268	588	417	563	563	151	137	174	178	140	15	31,5
5SV15	2,2	90	613	298	268	613	442	588	588	151	137	174	178	140	15,5	32
5SV16	2,2	90	638	298	268	638	467	613	613	151	137	174	178	140	16	32,5
5SV18	3	100	698	-	288	698	517	673	673	-	137	-	178	160	18	37
5SV21	3	100	773	-	288	773	592	748	748	-	137	-	178	160	19,4	39
5SV23	4	112	823	-	319	823	642	-	798	-	154	-	197	160	20,4	47
5SV25	4	112	873	-	319	873	692	-	848	-	154	-	197	160	21,3	48
5SV28	4	112	948	-	319	948	767	-	923	-	154	-	197	160	23	49,4
5SV30	5,5	132	1018	-	375	1018	817	-	993	-	168	-	214	300	28,1	65,7
5SV33	5,5	132	1093	-	375	1093	892	-	1068	-	168	-	214	300	29,5	67,1

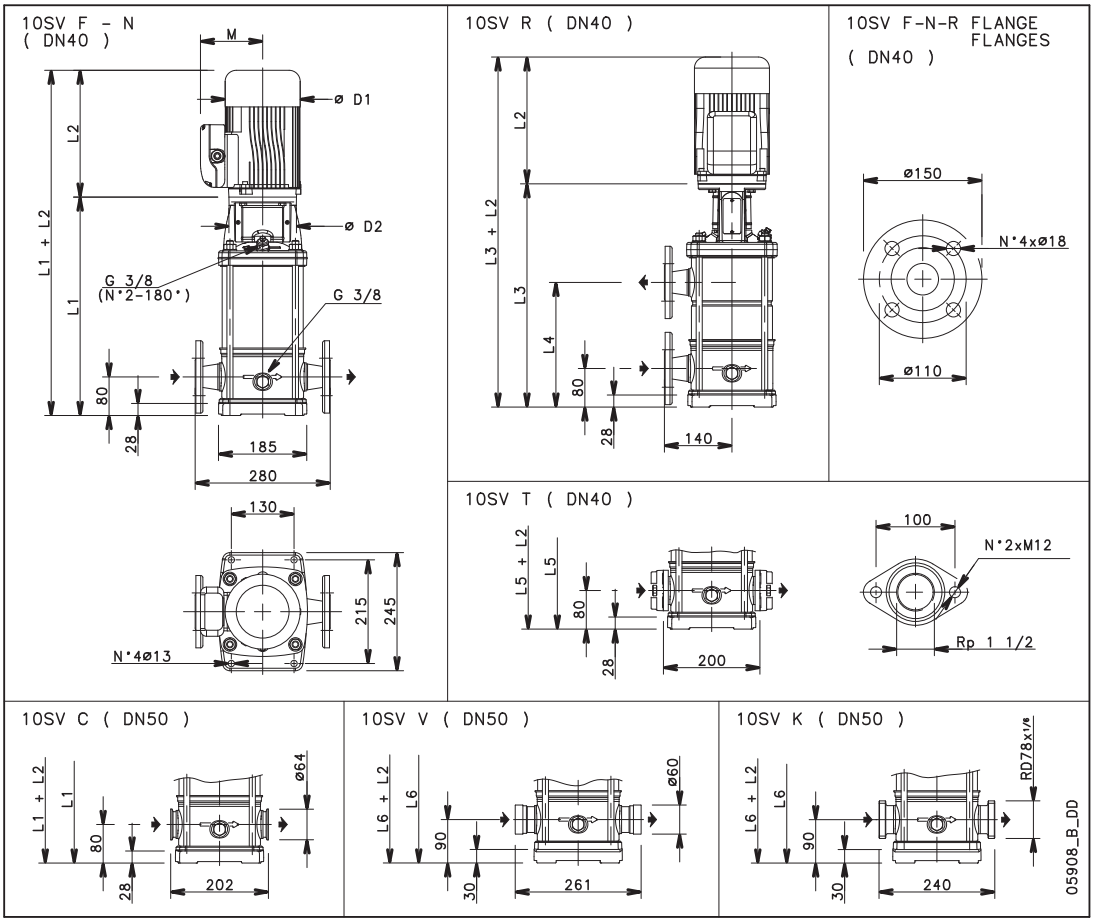
5sv-2p50-en_b_td

5SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

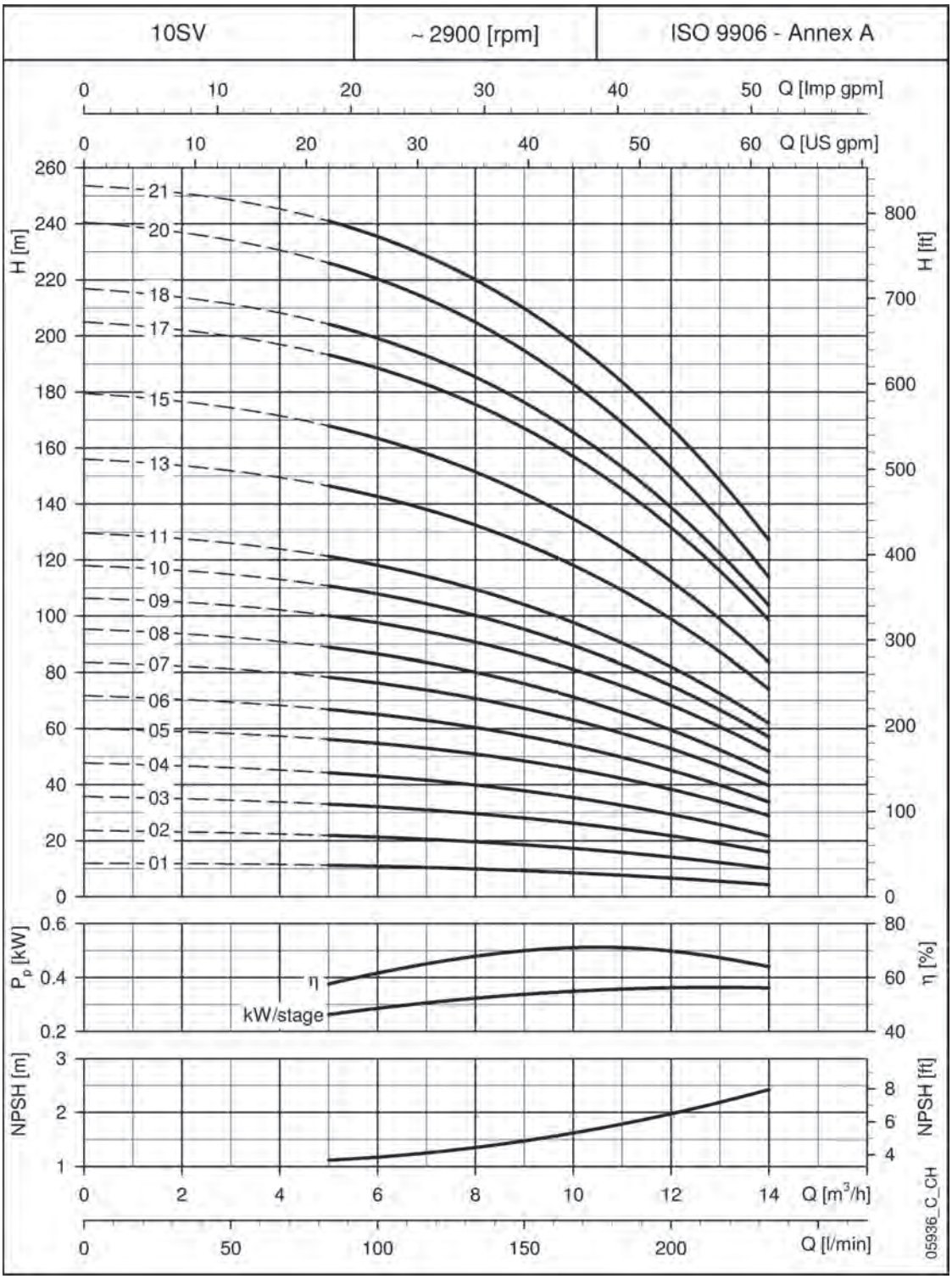
10SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR			L2						M		D1			WEIGHT kg	
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	L6	1 ~	3 ~	1 ~	3 ~	D2	PUMP	ELECTRIC PUMP
10SV01	0,75	80	357	226	263	-	-	357	367	121	129	140	155	120	14,2	25,4
10SV02	0,75	80	357	226	263	-	-	357	367	121	129	140	155	120	15,1	26,3
10SV03	1,1	80	389	263	263	-	-	389	399	137	129	155	155	120	16,1	29
10SV04	1,5	90	431	263	268	-	-	431	441	137	137	155	178	140	17,6	32
10SV05	2,2	90	463	298	268	463	259	463	473	151	137	174	178	140	18,5	35
10SV06	2,2	90	495	298	268	495	291	495	505	151	137	174	178	140	19,7	36
10SV07	3	100	537	-	288	537	323	537	547	-	137	-	178	160	21,5	41
10SV08	3	100	569	-	288	569	355	569	579	-	137	-	178	160	22,4	42
10SV09	4	112	601	-	319	601	387	601	611	-	154	-	197	160	23,3	49,7
10SV10	4	112	633	-	319	633	419	633	643	-	154	-	197	160	24,3	50,7
10SV11	4	112	665	-	319	665	451	665	675	-	154	-	197	160	25,2	52
10SV13	5,5	132	796	-	375	796	515	796	806	-	168	-	214	300	33,1	71
10SV15	5,5	132	860	-	375	860	579	-	870	-	168	-	214	300	35	73
10SV17	7,5	132	924	-	367	924	643	-	934	-	191	-	256	300	36,9	93
10SV18	7,5	132	956	-	367	956	675	-	966	-	191	-	256	300	37,8	94
10SV20	7,5	132	1020	-	367	1020	739	-	1030	-	191	-	256	300	39,6	96
10SV21	11	160	1082	-	428	1082	771	-	1092	-	191	-	256	350	42,2	113

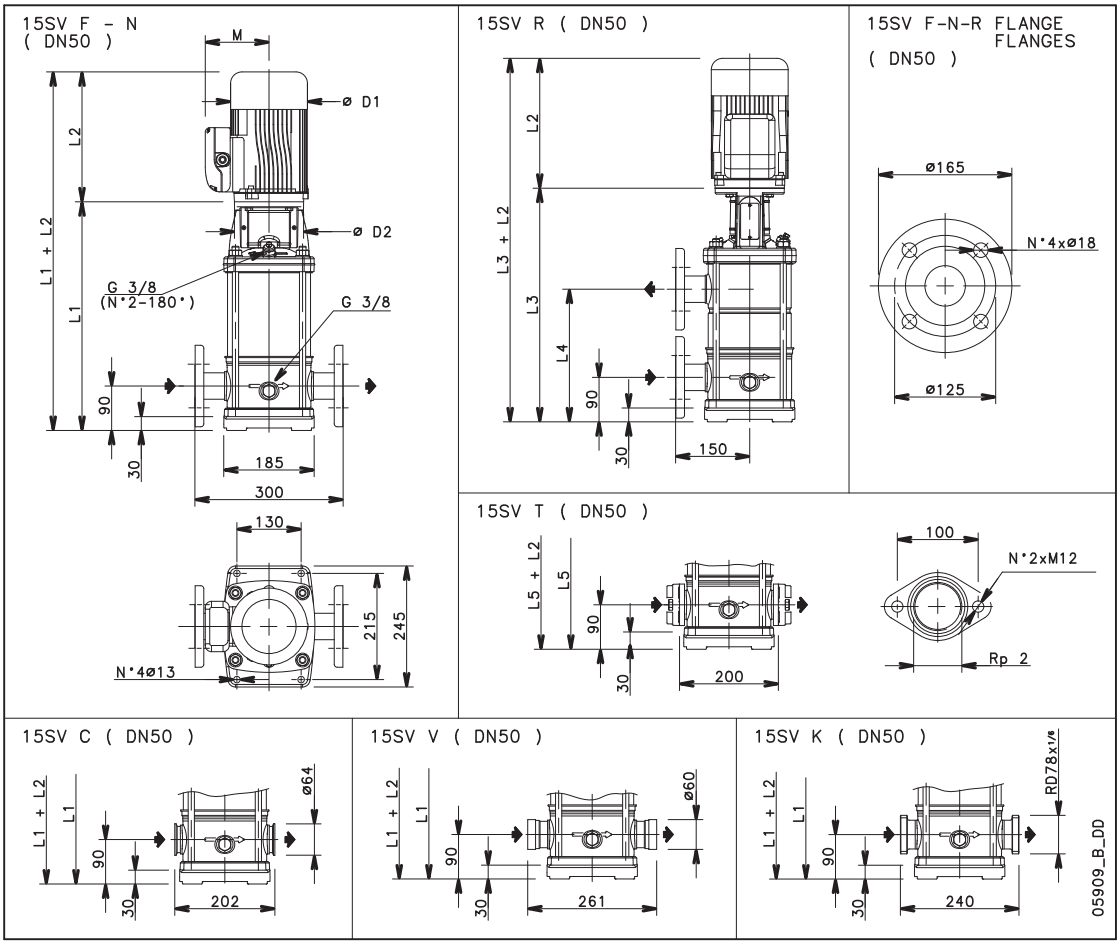
10sv-2p50-en_b_td

10SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

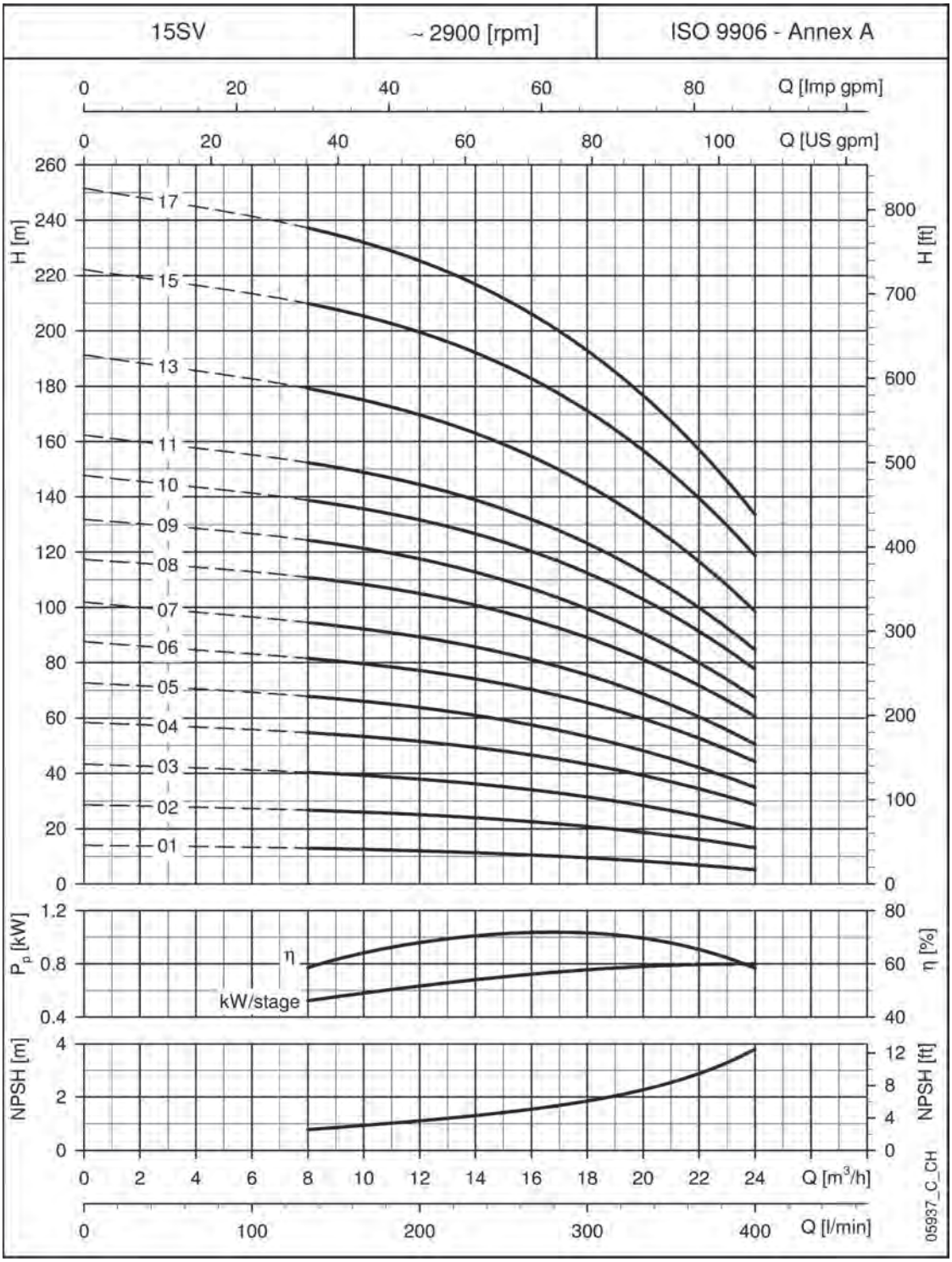
15SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)											WEIGHT kg	
				L2					M		D1				ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
15SV01	1,1	80	399	263	263	-	-	399	137	129	155	155	120	15	28,2
15SV02	2,2	90	409	298	268	-	-	409	151	137	174	178	140	16,8	33
15SV03	3	100	467	-	288	-	-	467	-	137	-	178	160	19	38
15SV04	4	112	515	-	319	515	301	515	-	154	-	197	160	20,3	46,8
15SV05	4	112	563	-	319	563	349	563	-	154	-	197	160	21,5	47,9
15SV06	5,5	132	678	-	375	678	397	678	-	168	-	214	300	28,9	67
15SV07	5,5	132	726	-	375	726	445	726	-	168	-	214	300	30,2	68
15SV08	7,5	132	774	-	367	774	493	774	-	191	-	256	300	31,5	88
15SV09	7,5	132	822	-	367	822	541	822	-	191	-	256	300	32,8	90
15SV10	11	160	900	-	428	900	589	900	-	191	-	256	350	37	108
15SV11	11	160	948	-	428	948	637	-	-	191	-	256	350	38,3	109
15SV13	11	160	1044	-	428	1044	733	-	-	191	-	256	350	41	112
15SV15	15	160	1140	-	494	1140	829	-	-	240	-	313	350	43,7	146
15SV17	15	160	1236	-	494	1236	925	-	-	240	-	313	350	46,7	149

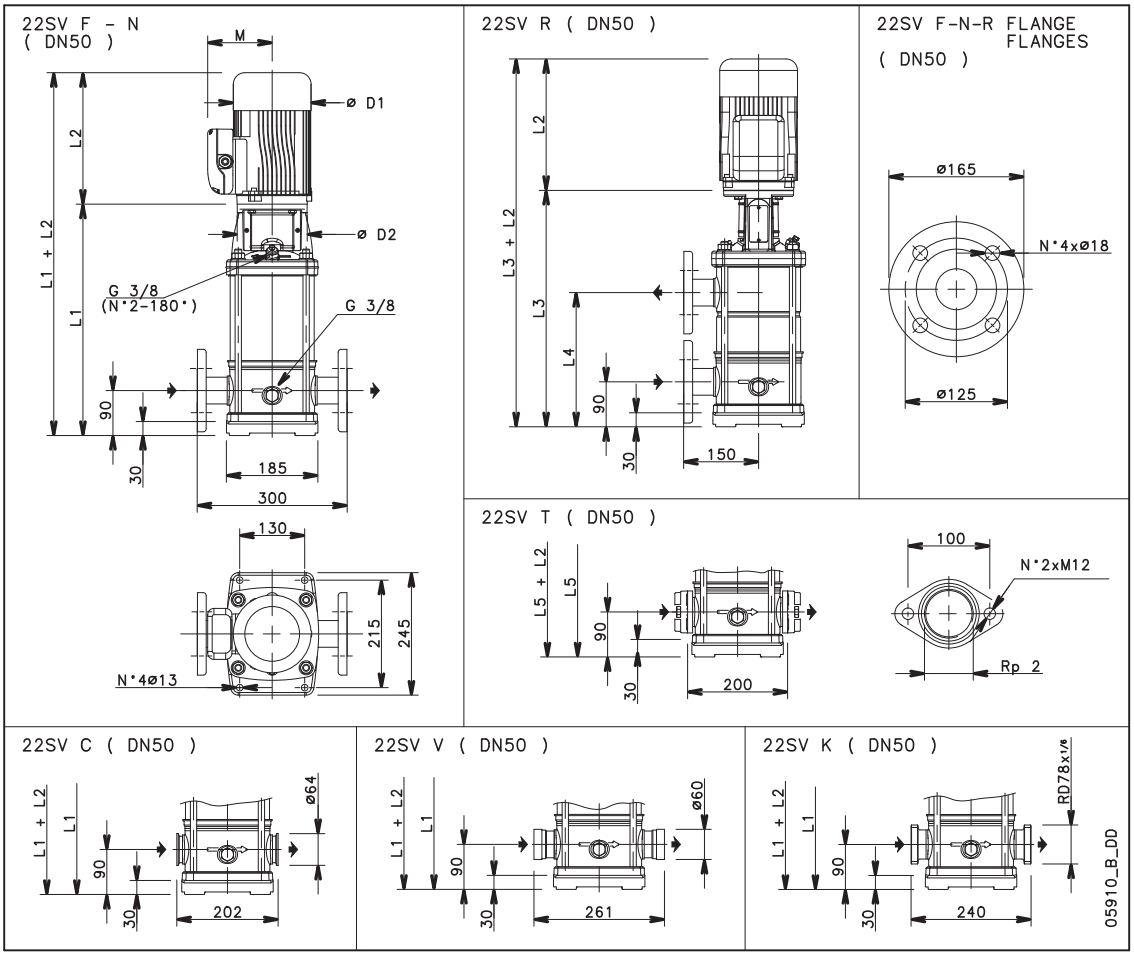
15sv-2p50_b_td

15SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

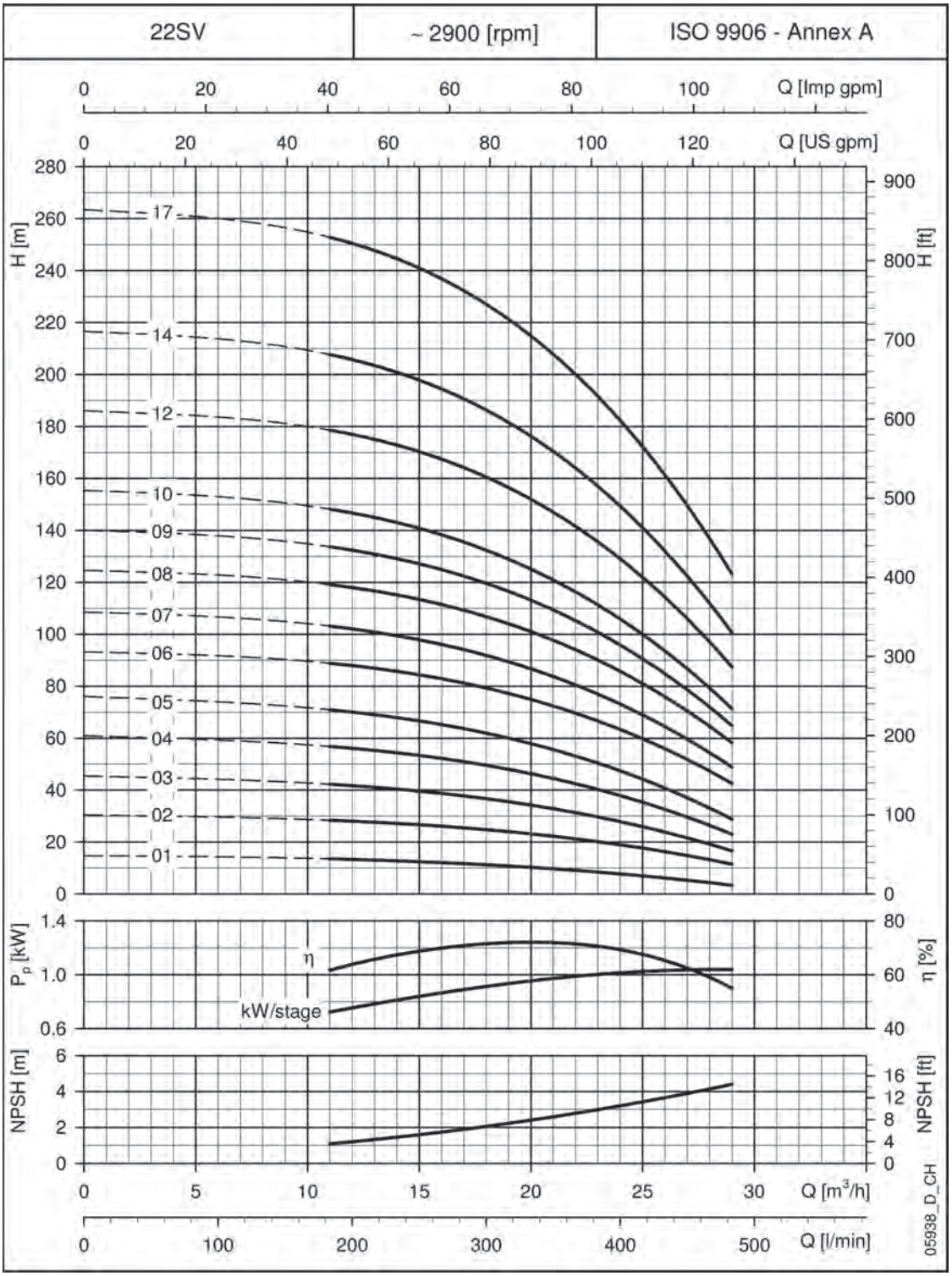
22SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)											WEIGHT kg	
				L2					M		D1				ELECTRIC
	kW	SIZE	L1	1 ~	3 ~	L3	L4	L5	1 ~	3 ~	1 ~	3 ~	D2	PUMP	PUMP
22SV01	1,1	80	399	263	263	-	-	399	137	129	155	155	120	15,5	28,3
22SV02	2,2	90	409	298	268	-	-	409	151	137	174	178	140	17,2	34
22SV03	3	100	467	-	288	-	-	467	-	137	-	178	160	19,4	39
22SV04	4	112	515	-	319	515	301	515	-	154	-	197	160	20,7	47,1
22SV05	5,5	132	630	-	375	630	349	630	-	168	-	214	300	26,7	65
22SV06	7,5	132	678	-	367	678	397	678	-	191	-	256	300	28	84
22SV07	7,5	132	726	-	367	726	445	726	-	191	-	256	300	29,3	86
22SV08	11	160	804	-	428	804	493	804	-	191	-	256	350	33,1	104
22SV09	11	160	852	-	428	852	541	852	-	191	-	256	350	34,4	105
22SV10	11	160	900	-	428	900	589	900	-	191	-	256	350	35,8	107
22SV12	15	160	996	-	494	996	685	-	-	240	-	313	350	38,4	141
22SV14	15	160	1092	-	494	1092	781	-	-	240	-	313	350	41,1	144
22SV17	18,5	160	1236	-	494	1236	925	-	-	240	-	313	350	45,1	156

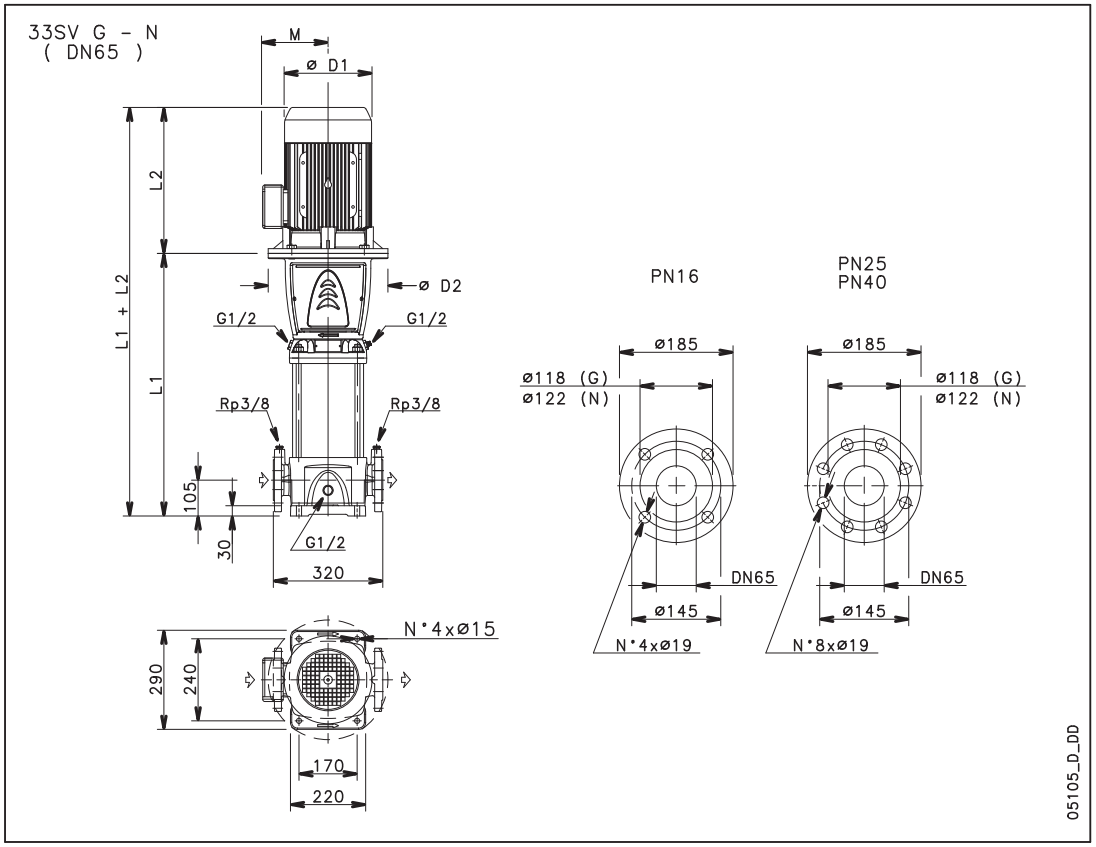
22sv-2p50-en_b_td

22SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

33SV SERIES
Dimensions and weights at 50 Hz, 2 poles

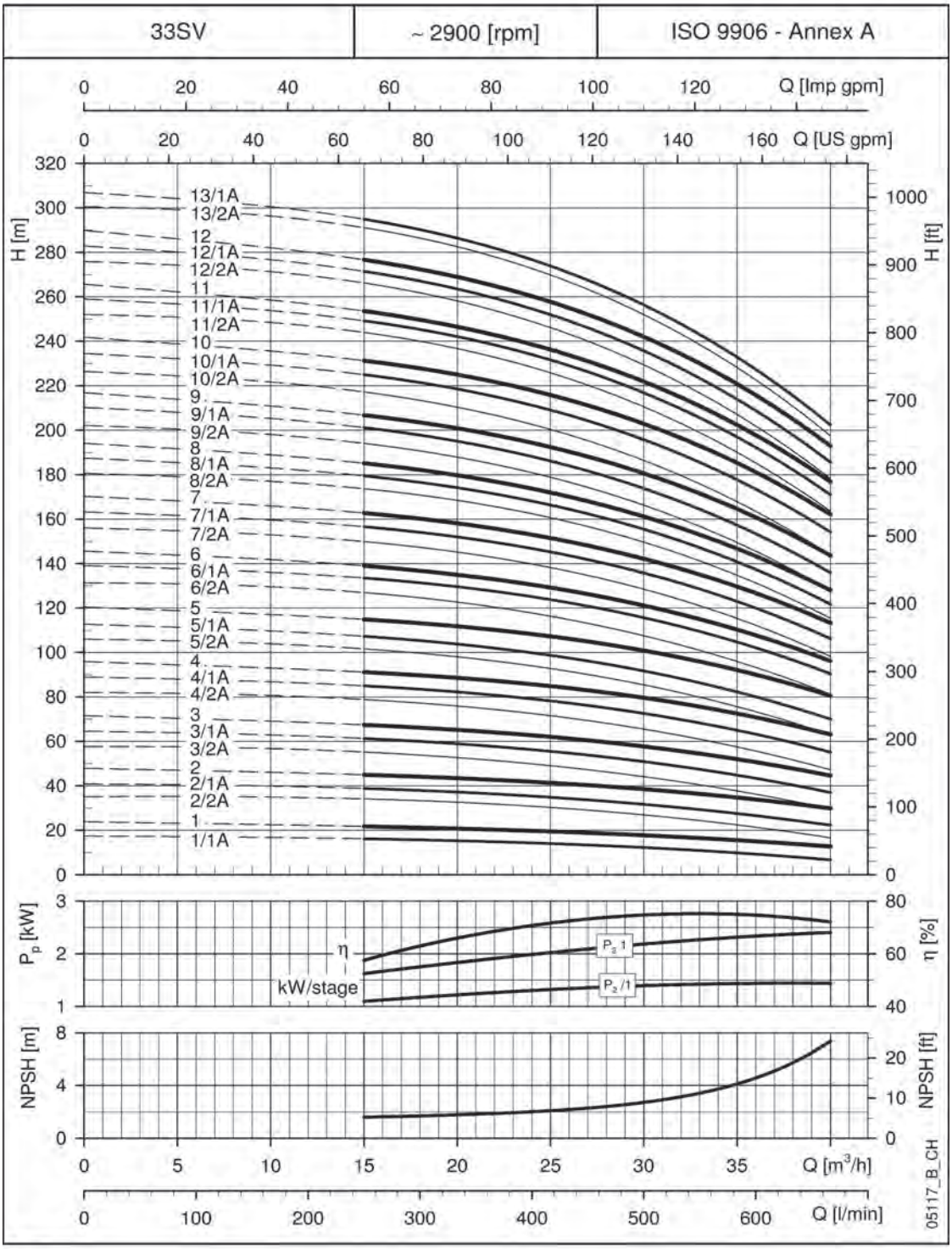


PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
33SV1/1A	2,2	90	489	268	178	164	137	16	52	68
33SV1	3	100	489	288	178	164	137	16	52	71
33SV2/2A	4	112	564	319	197	164	154	16	56	82,5
33SV2/1A	4	112	564	319	197	164	154	16	56	82,5
33SV2	5,5	132	584	375	214	300	168	16	61	98,5
33SV3/2A	5,5	132	659	375	214	300	168	16	65	103
33SV3/1A	7,5	132	659	367	256	300	191	16	65	121
33SV3	7,5	132	659	367	256	300	191	16	65	121
33SV4/2A	7,5	132	734	367	256	300	191	16	69	125
33SV4/1A	11	160	769	428	256	350	191	16	73	143
33SV4	11	160	769	428	256	350	191	16	73	143
33SV5/2A	11	160	844	428	256	350	191	16	77	147
33SV5/1A	11	160	844	428	256	350	191	16	77	147
33SV5	15	160	844	494	313	350	240	16	77	179
33SV6/2A	15	160	919	494	313	350	240	16	81	183
33SV6/1A	15	160	919	494	313	350	240	25	81	183
33SV6	15	160	919	494	313	350	240	25	81	183
33SV7/2A	15	160	994	494	313	350	240	25	84	186
33SV7/1A	18,5	160	994	494	313	350	240	25	84	195

PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
33SV7	18,5	160	994	494	313	350	240	25	84	195
33SV8/2A	18,5	160	1069	494	313	350	240	25	88	199
33SV8/1A	18,5	160	1069	494	313	350	240	25	88	199
33SV8	22	180	1069	494	313	350	240	25	89	210
33SV9/2A	22	180	1144	494	313	350	240	25	93	214
33SV9/1A	22	180	1144	494	313	350	240	25	93	214
33SV9	22	180	1144	494	313	350	240	25	93	214
33SV10/2A	22	180	1219	494	313	350	240	25	97	218
33SV10/1A	30	200	1219	657	402	400	317	25	104	319
33SV10	30	200	1219	657	402	400	317	25	104	319
33SV11/2A	30	200	1294	657	402	400	317	40	118	333
33SV11/1A	30	200	1294	657	402	400	317	40	118	333
33SV11	30	200	1294	657	402	400	317	40	118	333
33SV12/2A	30	200	1369	657	402	400	317	40	122	337
33SV12/1A	30	200	1369	657	402	400	317	40	122	337
33SV12	30	200	1369	657	402	400	317	40	122	337
33SV13/2A	30	200	1444	657	402	400	317	40	127	342
33SV13/1A	30	200	1444	657	402	400	317	40	127	342

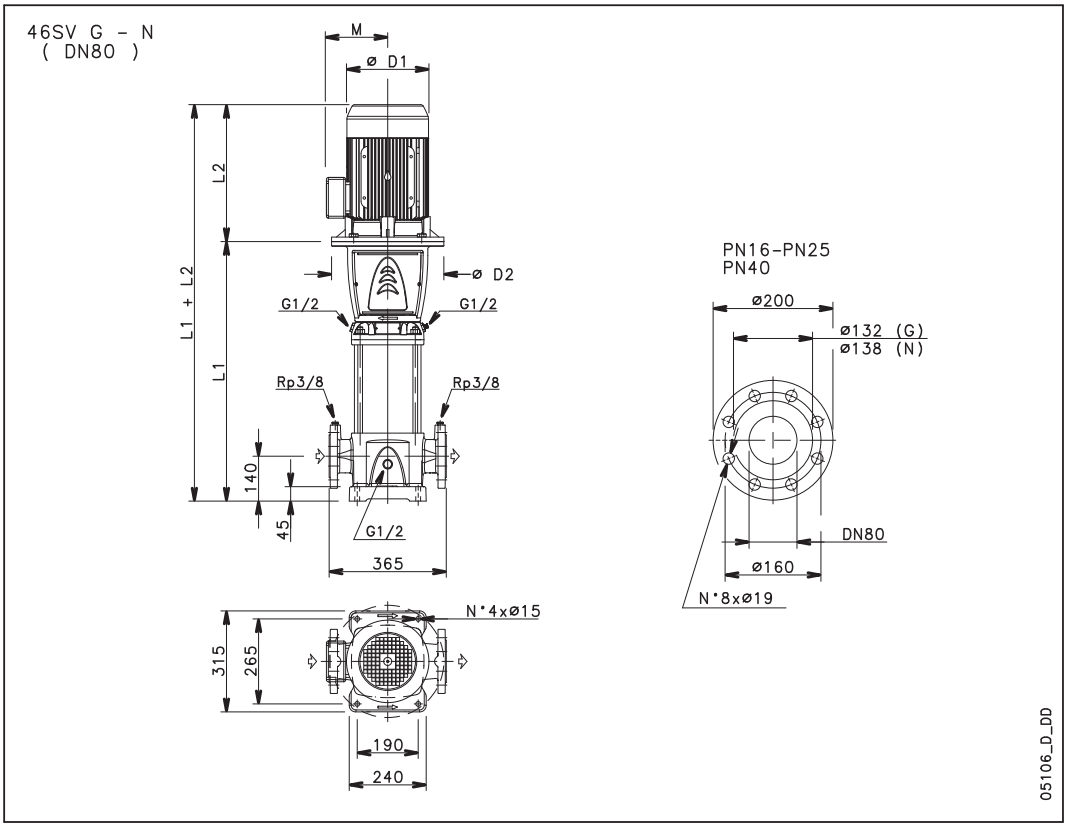
33sv-2p50-en_b_td

33SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

46SV SERIES
Dimensions and weights at 50 Hz, 2 poles

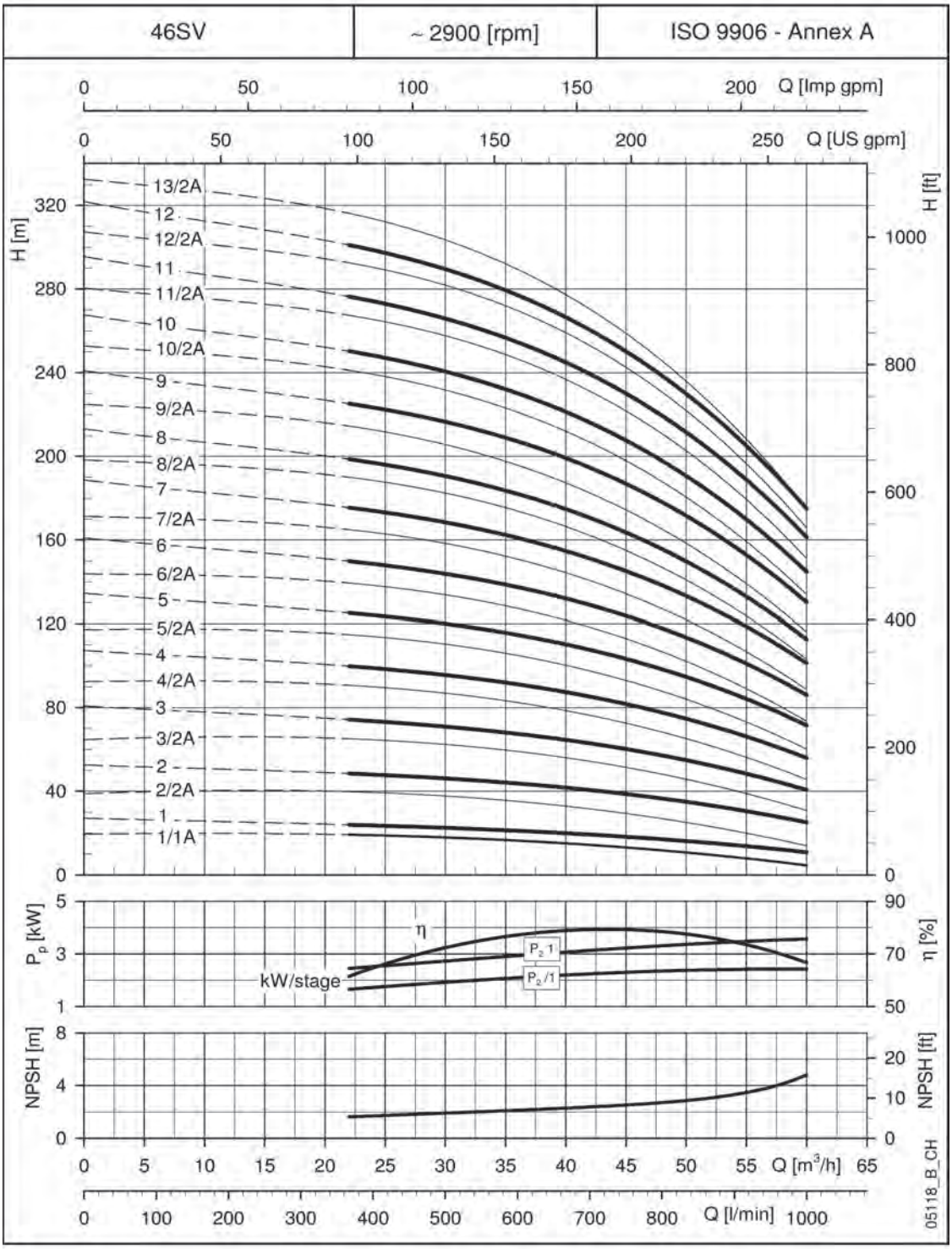


PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
46SV1/1A	3	100	529	288	178	164	137	16	58	77
46SV1	4	112	529	319	197	164	154	16	58	84,5
46SV2/2A	5,5	132	624	375	214	300	168	16	66	104
46SV2	7,5	132	624	367	256	300	191	16	66	122
46SV3/2A	11	160	734	428	256	350	191	16	74	144
46SV3	11	160	734	428	256	350	191	16	74	144
46SV4/2A	15	160	809	494	313	350	240	16	78	180
46SV4	15	160	809	494	313	350	240	16	78	180
46SV5/2A	18,5	160	884	494	313	350	240	16	82	193
46SV5	18,5	160	884	494	313	350	240	16	82	193
46SV6/2A	22	180	959	494	313	350	240	25	87	208
46SV6	22	180	959	494	313	350	240	25	87	208
46SV7/2A	30	200	1034	657	402	400	317	25	97	312
46SV7	30	200	1034	657	402	400	317	25	97	312
46SV8/2A	30	200	1109	657	402	400	317	25	101	316
46SV8	30	200	1109	657	402	400	317	25	101	316
46SV9/2A	30	200	1184	657	402	400	317	25	105	320
46SV9	37	200	1184	657	402	400	317	25	105	335
46SV10/2A	37	200	1259	657	402	400	317	40	114	344

PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
46SV10	37	200	1259	657	402	400	317	40	114	344
46SV11/2A	45	225	1334	746	455	450	384	40	126	482
46SV11	45	225	1334	746	455	450	384	40	126	482
46SV12/2A	45	225	1409	746	455	450	384	40	131	487
46SV12	45	225	1409	746	455	450	384	40	131	487
46SV13/2A	45	225	1484	746	455	450	384	40	135	491

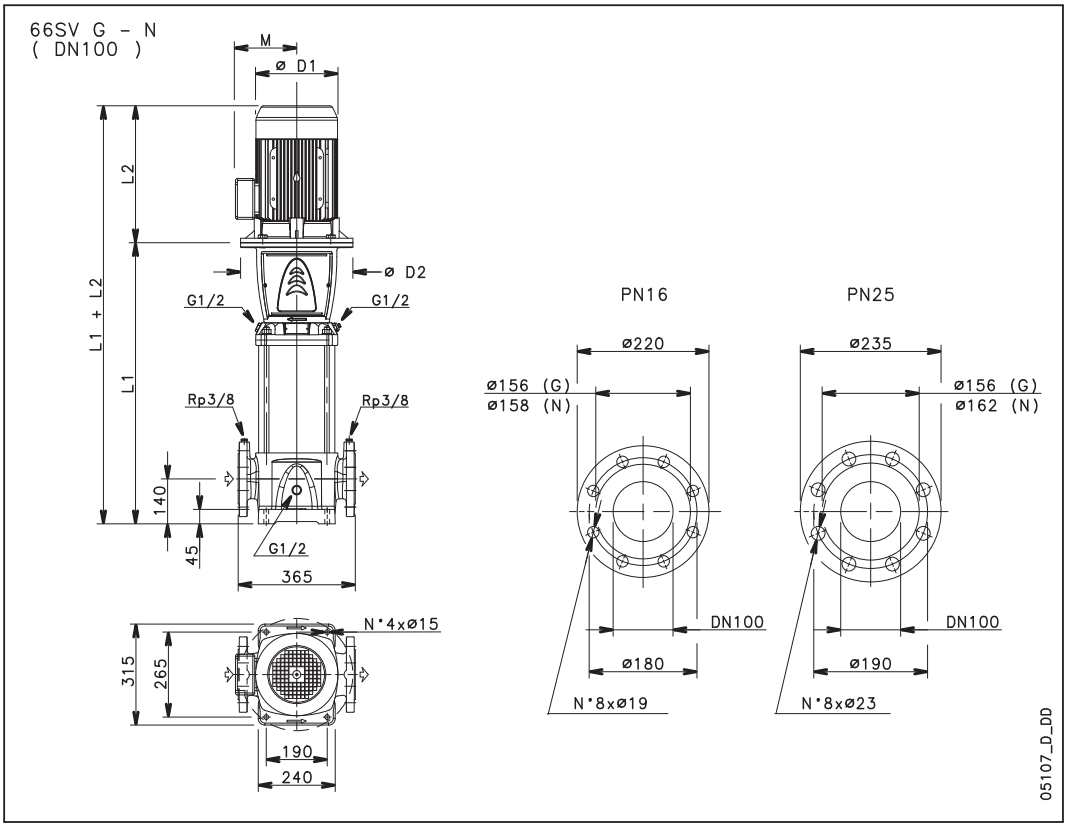
46sv-2p50-en_b_td

46SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

66SV SERIES
Dimensions and weights at 50 Hz, 2 poles

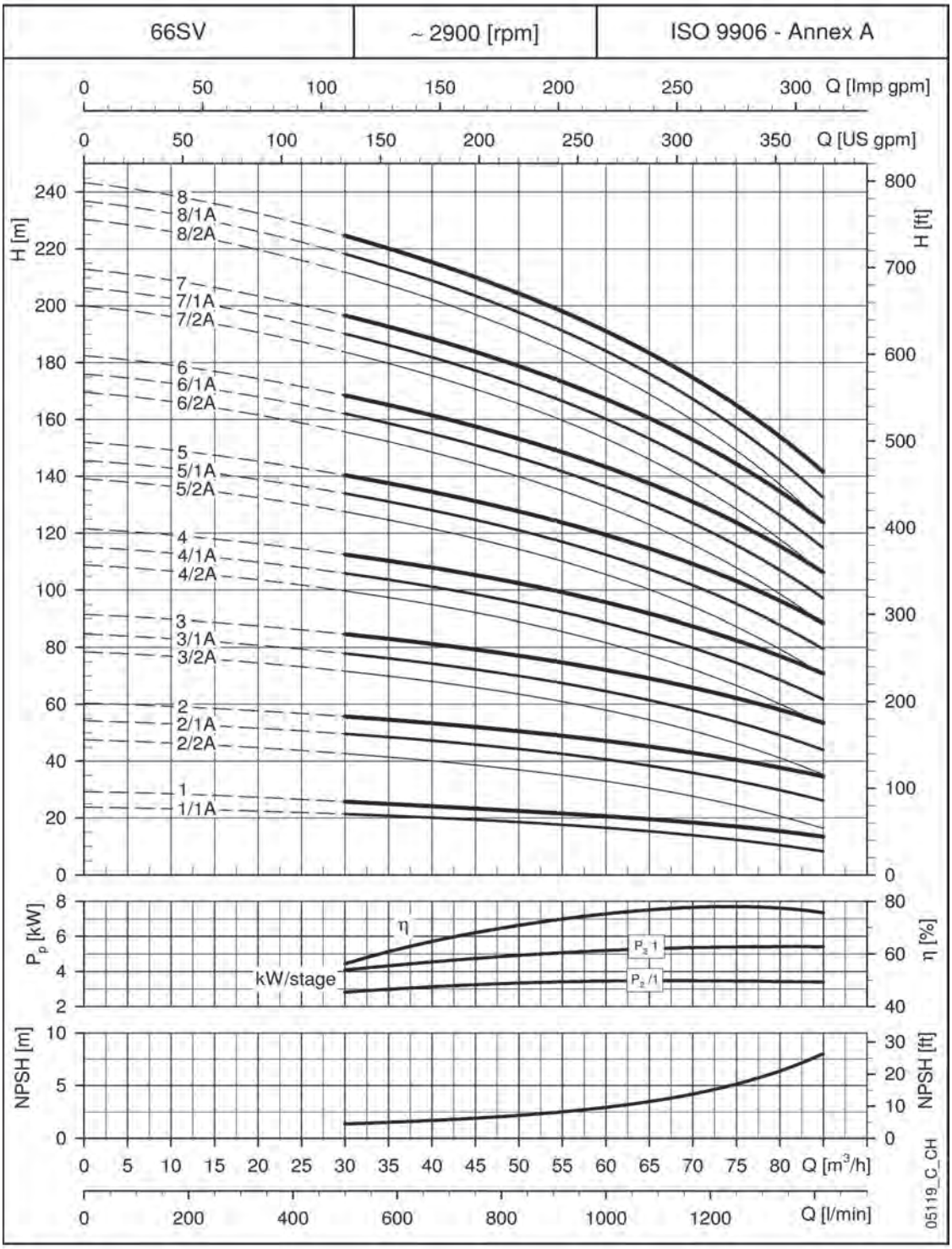


PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
										ELECTRIC
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	PUMP
66SV1/1A	4	112	554	319	197	164	154	16	66	92,5
66SV1	5,5	132	574	375	214	300	168	16	72	110
66SV2/2A	7,5	132	664	367	256	300	191	16	77	133
66SV2/1A	11	160	699	428	256	350	191	16	81	151
66SV2	11	160	699	428	256	350	191	16	81	151
66SV3/2A	15	160	789	494	313	350	240	16	86	188
66SV3/1A	15	160	789	494	313	350	240	16	86	188
66SV3	18,5	160	789	494	313	350	240	16	86	197
66SV4/2A	18,5	160	879	494	313	350	240	16	92	203
66SV4/1A	22	180	879	494	313	350	240	16	93	214
66SV4	22	180	879	494	313	350	240	16	93	214
66SV5/2A	30	200	969	657	402	400	317	16	105	320
66SV5/1A	30	200	969	657	402	400	317	16	105	320
66SV5	30	200	969	657	402	400	317	16	105	320
66SV6/2A	30	200	1059	657	402	400	317	25	113	328
66SV6/1A	30	200	1059	657	402	400	317	25	113	328
66SV6	37	200	1059	657	402	400	317	25	113	343
66SV7/2A	37	200	1149	657	402	400	317	25	118	348
66SV7/1A	37	200	1149	657	402	400	317	25	118	348

PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
										ELECTRIC
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	PUMP
66SV7	45	225	1149	746	455	450	384	25	122	478
66SV8/2A	45	225	1239	746	455	450	384	25	127	483
66SV8/1A	45	225	1239	746	455	450	384	25	127	483
66SV8	45	225	1239	746	455	450	384	25	127	483

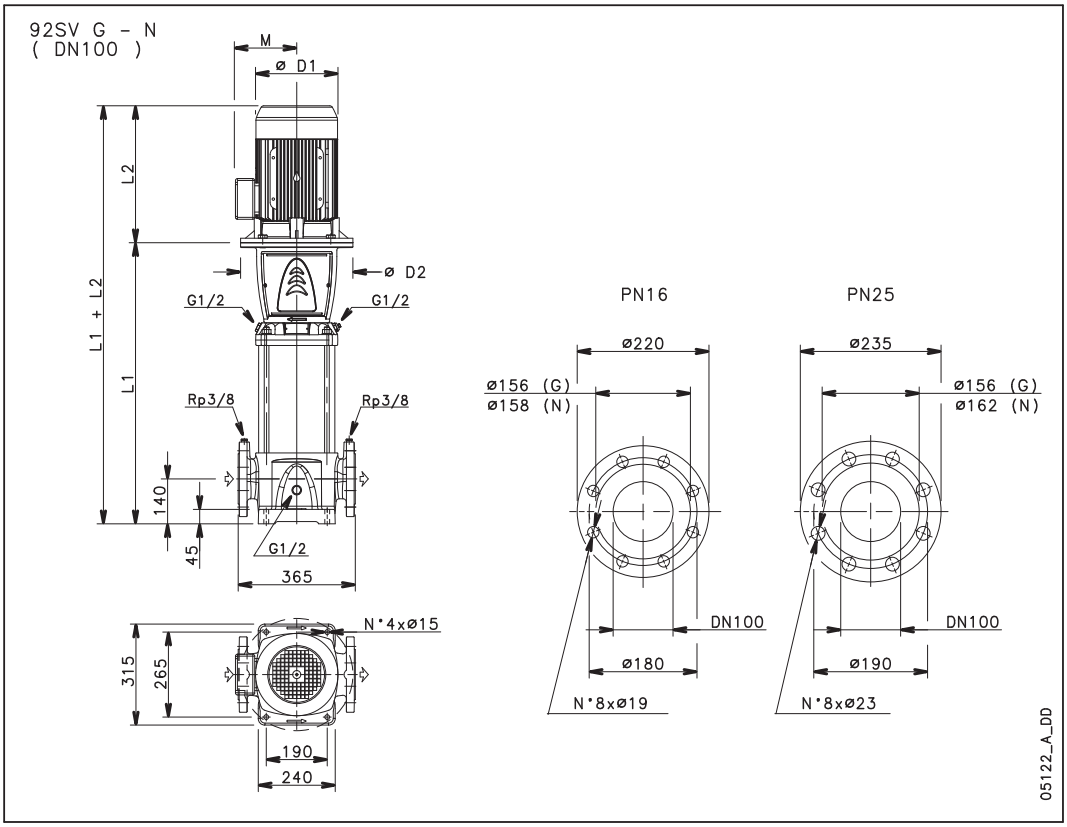
66sv-2p50-en_a_td

66SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

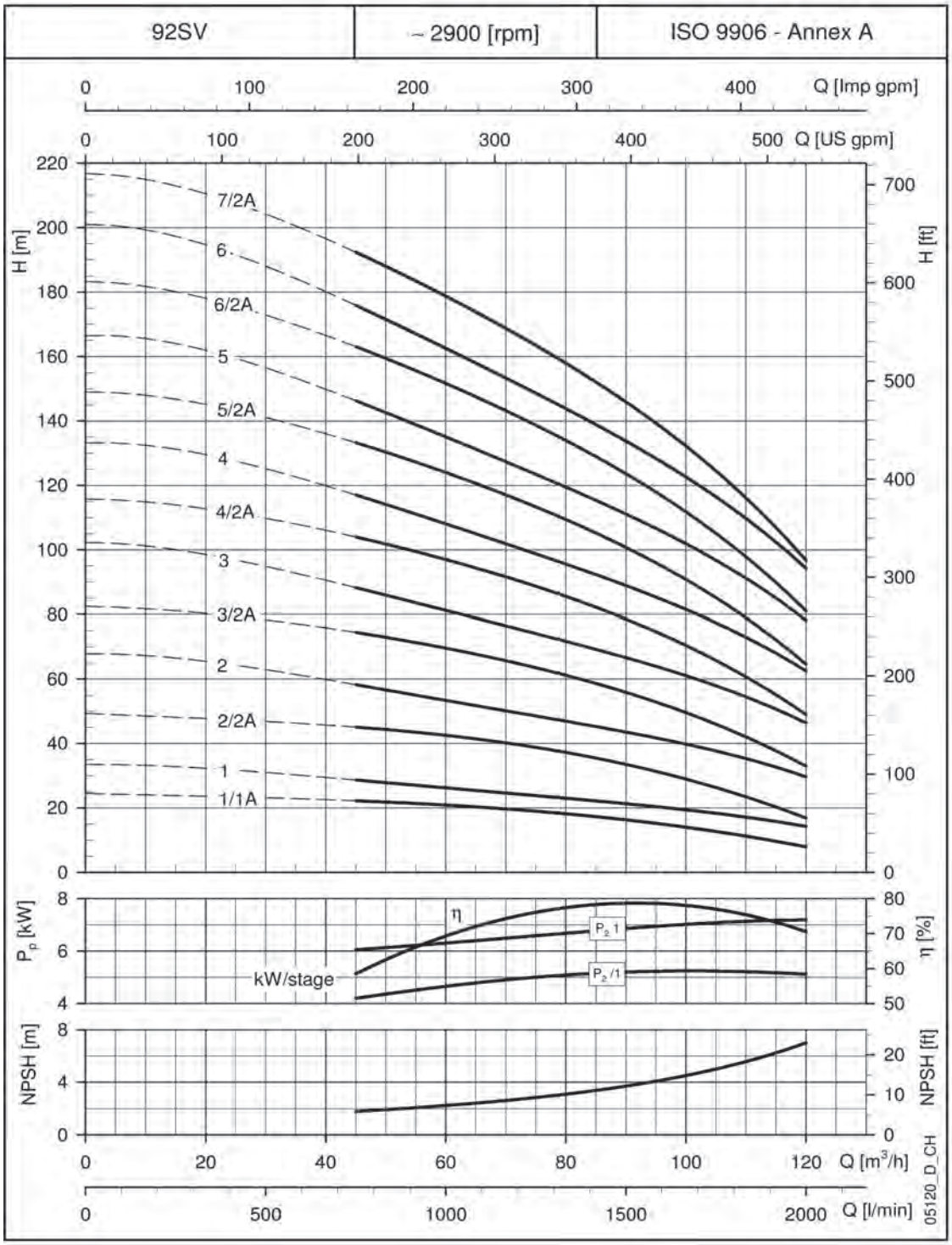
92SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
92SV1/1A	5,5	132	574	375	214	300	168	16	71	109
92SV1	7,5	132	574	367	256	300	191	16	71	127
92SV2/2A	11	160	699	428	256	350	191	16	80	150
92SV2	15	160	699	494	313	350	240	16	80	182
92SV3/2A	18,5	160	789	494	313	350	240	16	86	197
92SV3	22	180	789	494	313	350	240	16	87	208
92SV4/2A	30	200	879	657	402	400	317	16	99	314
92SV4	30	200	879	657	402	400	317	16	99	314
92SV5/2A	37	200	969	657	402	400	317	25	107	337
92SV5	37	200	969	657	402	400	317	25	107	337
92SV6/2A	45	225	1059	746	455	450	384	25	116	472
92SV6	45	225	1059	746	455	450	384	25	116	472
92SV7/2A	45	225	1149	746	455	450	384	25	121	477

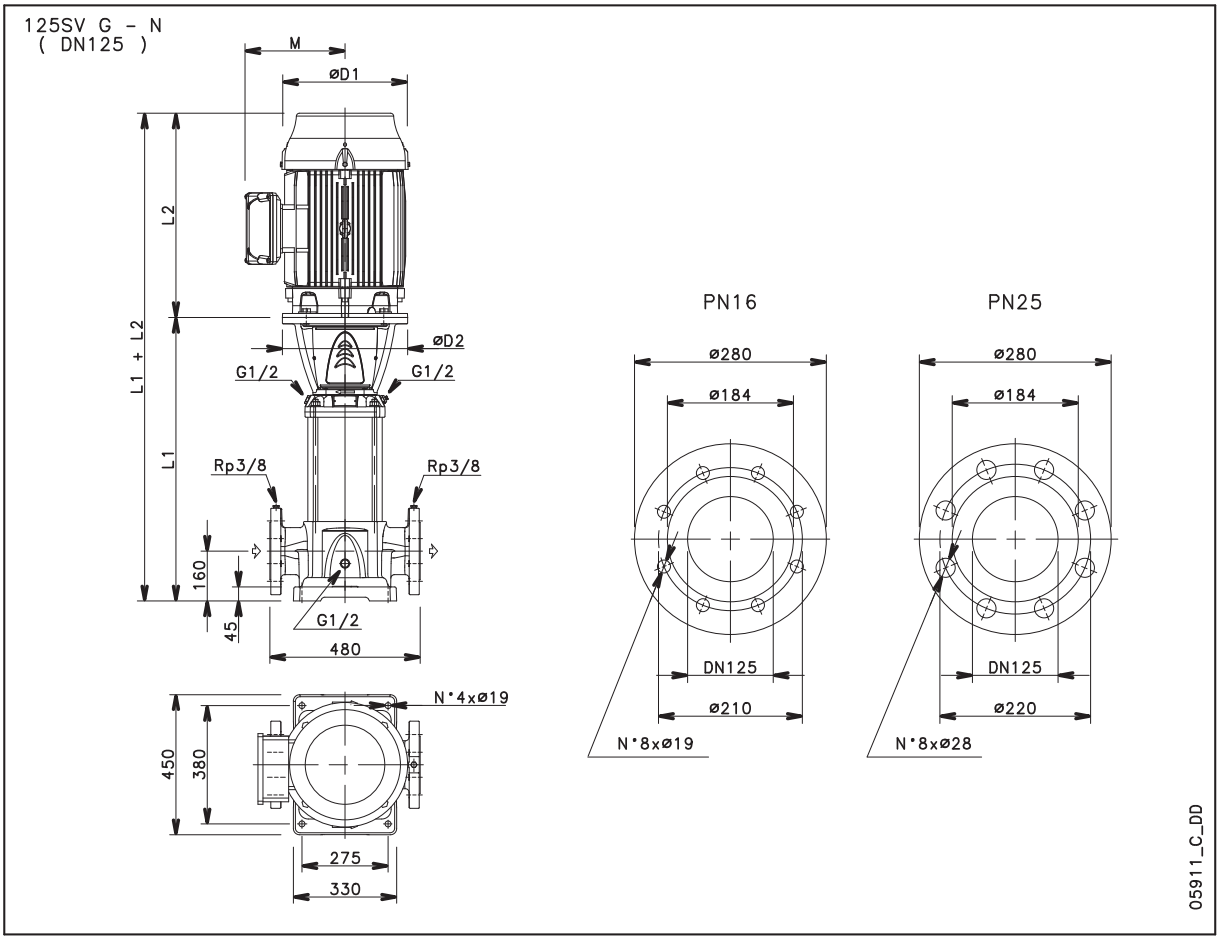
92sv-2p50-en_a_td

92SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

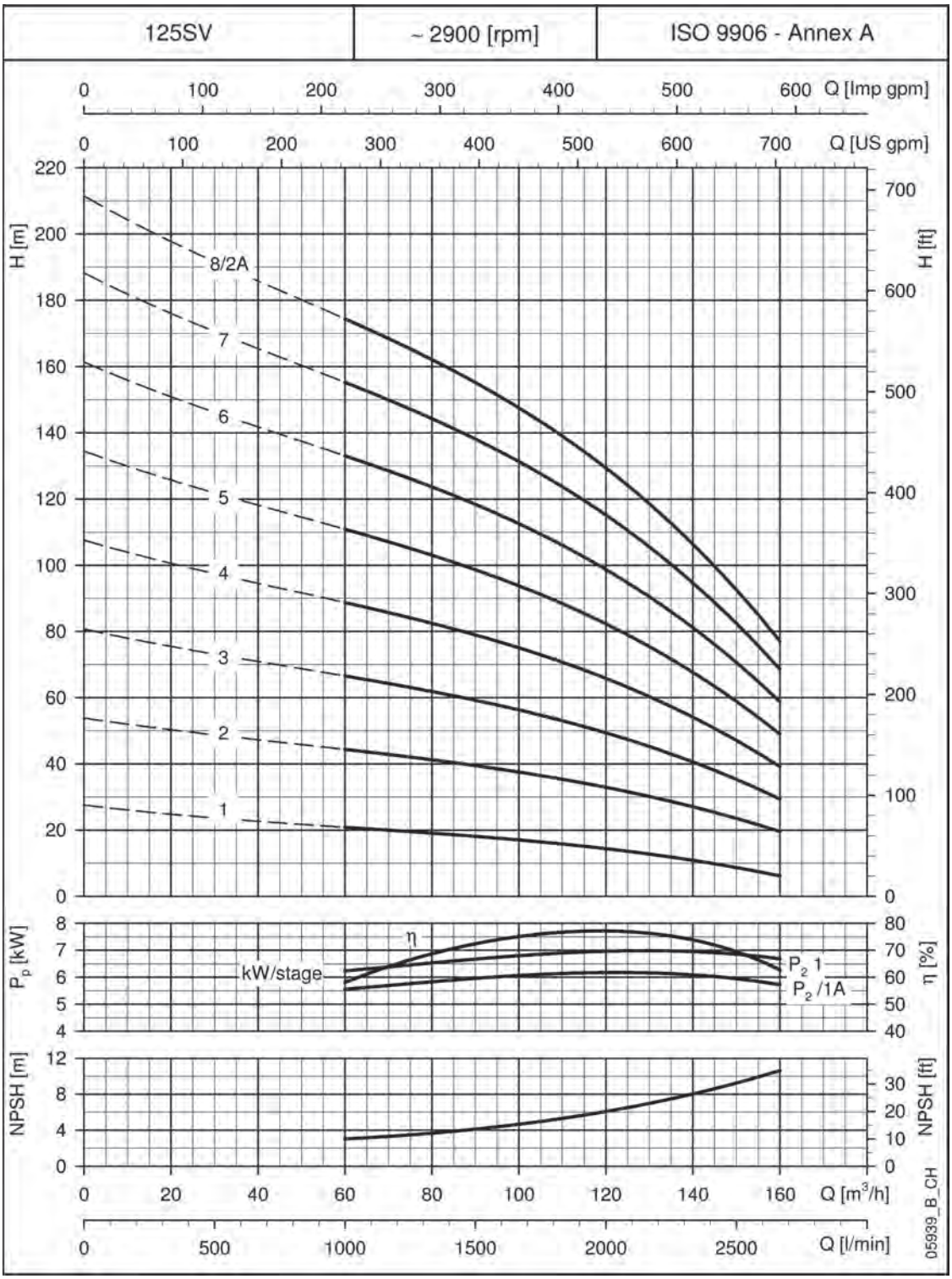
125SV SERIES
Dimensions and weights at 50 Hz, 2 poles



PUMP TYPE	MOTOR		DIMENSIONS (mm)						WEIGHT kg	
	kW	SIZE	L1	L2	D1	D2	M	PN	PUMP	ELECTRIC PUMP
125SV1	7,5	132	693	367	256	300	191	16	116	172
125SV2	15	160	878	494	313	350	240	16	131	233
125SV3	22	180	1028	494	313	350	240	16	143	265
125SV4	30	200	1178	657	402	400	317	16	161	376
125SV5	37	200	1328	657	402	400	317	16	172	402
125SV6	45	225	1478	746	455	450	384	16	187	543
125SV7	55	250	1658	825	486	550	402	25	216	666
125SV8/2A	55	250	1808	825	486	550	402	25	229	679

125sv-2p50-en_b_td

125SV SERIES
Operating characteristics at 50 Hz, 2 poles



These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

SVI Series

Immersible vertical electric pumps for the industrial and commercial sectors.

Available versions:
E: Close-coupled version

S: Version with coupling

N:Version in AISI 316 stainless steel with coupling

Specifications

Delivery: up to 120 m^3/h
Head: up to 240 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.30 kW to 22 kW
Maximum operating pressure: 25 bar
Temperature of pumped liquid: -10°C to +90°C

Materials

Impeller, diffuser, shaft, outer sleeve: stainless steel
Mechanical seal: Ceramic/Carbon/FPM
Elastomers: FPM

Applications

Pumping of coolants, lubricants and condensate

Machine tools, welders, engine test stands

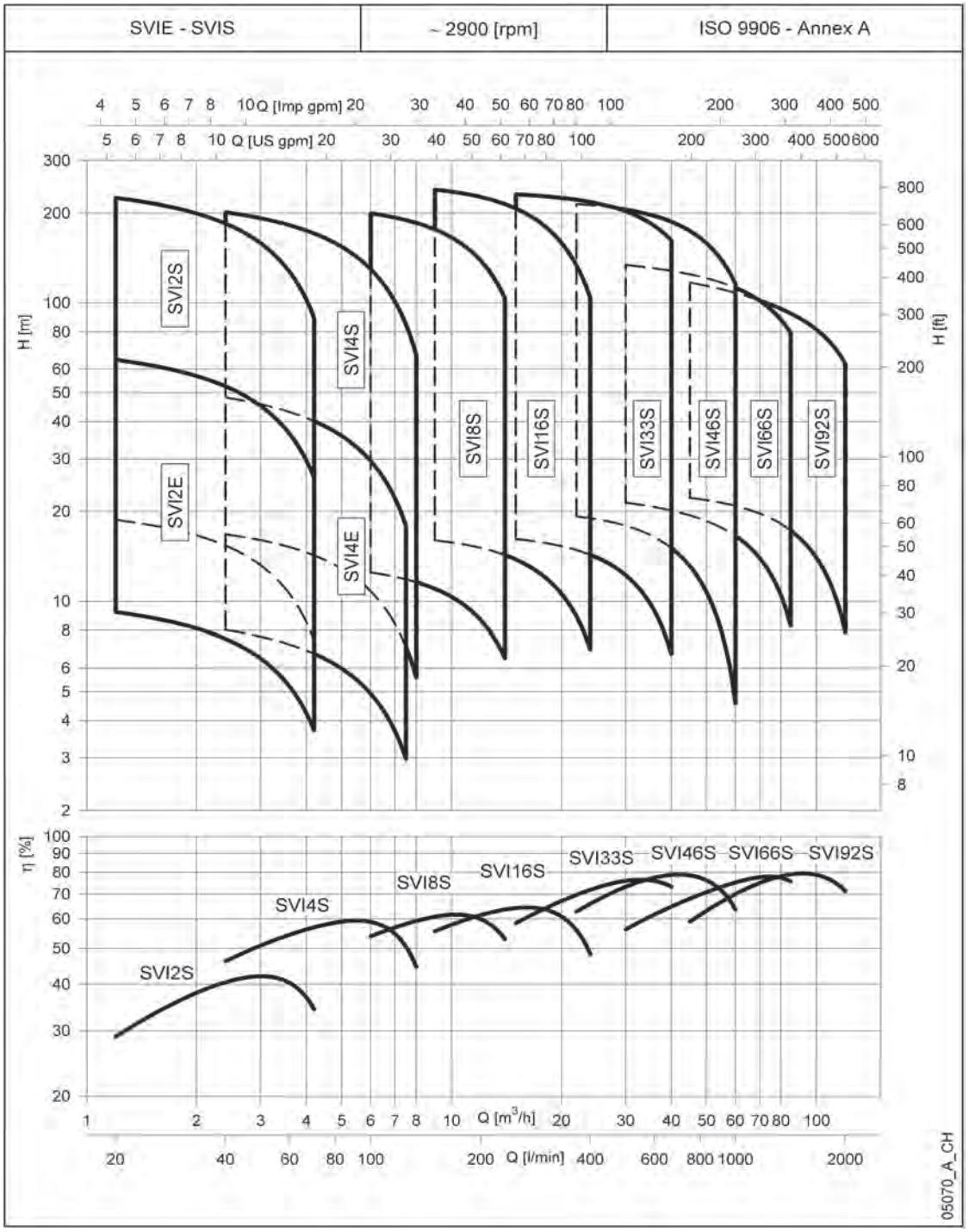
Cooling systems

Washing systems



For a complete list of technical information, consult www.lowara.com

SVI SERIES
Hydraulic performance range at ~2900 rpm 50 Hz



SVI 2, 4 SERIES
Table of hydraulic performances at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min 0	20	30	40	50	60	70	80	90	100	110	120
			m^3/h 0	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6	7,2
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 201E	0,37	0,5	10,6	9,2	8,4	7,5	6,5	5,2	3,7					
SVI 202E	0,37	0,5	21,2	18,4	16,8	15,0	12,9	10,4	7,4					
SVI 203E	0,45	0,6	31,8	27,6	25,3	22,5	19,4	15,6	11,1					
SVI 204E	0,55	0,75	42,4	36,9	33,7	30,1	25,8	20,8	14,8					
SVI 205E	0,75	1	53,0	46,1	42,1	37,6	32,3	26,0	18,6					
SVI 206E	0,75	1	63,7	55,3	50,5	45,1	38,7	31,2	22,3					
SVI 207E	0,9	1,2	74,3	64,5	58,9	52,6	45,2	36,4	26,0					
SVI 401E	0,37	0,5	9,5			8,0	7,6	7,2	6,7	6,2	5,6	4,9	4,2	3,4
SVI 402E	0,37	0,5	19,0			16,1	15,3	14,4	13,4	12,3	11,2	9,9	8,4	6,8
SVI 403E	0,45	0,6	28,5			24,1	22,9	21,5	20,1	18,5	16,7	14,8	12,6	10,2
SVI 404E	0,55	0,75	38,0			32,1	30,5	28,7	26,8	24,7	22,3	19,7	16,8	13,6
SVI 405E	0,75	1	47,5			40,2	38,1	35,9	33,5	30,8	27,9	24,6	21,0	17,1
SVI 406E	0,9	1,2	57,0			48,2	45,8	43,1	40,2	37,0	33,5	29,6	25,3	20,5
SVI 202S	0,37	0,5	21,4	18,8	17,2	15,4	13,2	10,6	7,4					
SVI 203S	0,37	0,5	32,1	28,1	25,8	23,1	19,8	15,9	11,1					
SVI 204S	0,55	0,75	42,8	37,5	34,4	30,8	26,4	21,2	14,8					
SVI 205S	0,75	1	53,5	46,9	43,0	38,5	33,0	26,5	18,6					
SVI 206S	0,75	1	64,2	56,3	51,6	46,2	39,6	31,7	22,3					
SVI 207S	1,1	1,5	74,9	65,6	60,2	53,9	46,2	37,0	26,0					
SVI 208S	1,1	1,5	85,6	75,0	68,8	61,5	52,8	42,3	29,7					
SVI 209S	1,1	1,5	96,3	84,4	77,4	69,2	59,4	47,6	33,4					
SVI 211S	1,5	2	117,7	103,2	94,6	84,6	72,6	58,2	40,8					
SVI 212S	1,5	2	128,4	112,5	103,2	92,3	79,2	63,5	44,5					
SVI 214S	2,2	3	149,8	131,3	120,4	107,7	92,5	74,1	52,0					
SVI 216S	2,2	3	171,2	150,1	137,7	123,1	105,7	84,7	59,4					
SVI 218S	2,2	3	192,6	168,8	154,9	138,5	118,9	95,2	66,8					
SVI 220S	3	4	214,0	187,6	172,1	153,9	132,1	105,8	74,2					
SVI 222S	3	4	235,4	206,3	189,3	169,2	145,3	116,4	81,7					
SVI 224S	3	4	256,8	225,1	206,5	184,6	158,5	127,0	89,1					
SVI 402S	0,37	0,5	19,3			16,8	16,0	15,2	14,3	13,2	12,1	10,8	9,4	7,9
SVI 403S	0,55	0,75	28,9			25,2	24,0	22,8	21,4	19,8	18,1	16,2	14,1	11,8
SVI 404S	0,75	1	38,5			33,6	32,0	30,4	28,5	26,5	24,2	21,6	18,9	15,8
SVI 405S	1,1	1,5	48,2			42,0	40,1	38,0	35,6	33,1	30,2	27,1	23,6	19,7
SVI 406S	1,1	1,5	57,8			50,4	48,1	45,6	42,8	39,7	36,3	32,5	28,3	23,7
SVI 407S	1,1	1,5	67,5			58,7	56,1	53,1	49,9	46,3	42,3	37,9	33,0	27,6
SVI 408S	1,5	2	77,1			67,1	64,1	60,7	57,0	52,9	48,3	43,3	37,7	31,5
SVI 409S	1,5	2	86,7			75,5	72,1	68,3	64,2	59,5	54,4	48,7	42,4	35,5
SVI 411S	2,2	3	106,0			92,3	88,1	83,5	78,4	72,8	66,5	59,5	51,9	43,4
SVI 413S	2,2	3	125,3			109,1	104,2	98,7	92,7	86,0	78,6	70,4	61,3	51,3
SVI 414S	3	4	134,9			117,5	112,2	106,3	99,8	92,6	84,6	75,8	66,0	55,2
SVI 416S	3	4	154,2			134,3	128,2	121,5	114,1	105,8	96,7	86,6	75,4	63,1
SVI 418S	3	4	173,5			151,1	144,2	136,7	128,3	119,0	108,8	97,4	84,8	71,0
SVI 420S	4	5,5	192,7			167,9	160,2	151,8	142,6	132,3	120,9	108,2	94,3	78,9
SVI 422S	4	5,5	212,0			184,6	176,3	167,0	156,8	145,5	133,0	119,1	103,7	86,7
SVI 424S	4	5,5	231,3			201,4	192,3	182,2	171,1	158,7	145,0	129,9	113,1	94,6

Performances in compliance with ISO 9906 - Annex A.

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SVI 8, 16 SERIES
Table of hydraulic performances at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min 0	100	125	150	175	200	233	250	275	300	350	400
			m^3/h 0	6	7,5	9	10,5	12	14	15	16,5	18	21	24
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 801S	0,75	1	14,0	12,5	11,8	11,0	10,0	8,7	6,5					
SVI 802S	1,1	1,5	28,0	25,0	23,7	22,1	20,0	17,4	13,0					
SVI 803S	1,5	2	42,0	37,5	35,5	33,1	29,9	26,0	19,4					
SVI 804S	2,2	3	56,0	50,0	47,4	44,1	39,9	34,7	25,9					
SVI 805S	2,2	3	70,0	62,4	59,2	55,1	49,9	43,4	32,4					
SVI 806S	3	4	84,0	74,9	71,1	66,2	59,9	52,1	38,9					
SVI 808S	4	5,5	112,0	99,9	94,8	88,2	79,9	69,5	51,8					
SVI 809S	4	5,5	126,0	112,4	106,6	99,2	89,8	78,1	58,3					
SVI 811S	5,5	7,5	154,0	137,4	130,3	121,3	109,8	95,5	71,3					
SVI 812S	5,5	7,5	168,0	149,9	142,2	132,3	119,8	104,2	77,8					
SVI 814S	7,5	10	196,0	174,9	165,9	154,4	139,8	121,5	90,7					
SVI 816S	7,5	10	224,0	199,8	189,6	176,4	159,7	138,9	103,7					
SVI 1601S	1,1	1,5	16,9			16,0	15,6	15,1	14,3	13,8	13,0	12,1	9,8	6,9
SVI 1602S	2,2	3	33,7			32,0	31,2	30,2	28,6	27,6	26,0	24,1	19,6	13,9
SVI 1603S	3	4	50,6			48,0	46,8	45,3	42,9	41,5	39,0	36,2	29,4	20,8
SVI 1604S	4	5,5	67,5			64,0	62,4	60,4	57,2	55,3	52,0	48,3	39,1	27,7
SVI 1605S	5,5	7,5	84,3			80,0	78,0	75,6	71,5	69,1	65,0	60,3	48,9	34,6
SVI 1606S	5,5	7,5	101,2			96,0	93,6	90,7	85,8	82,9	78,0	72,4	58,7	41,6
SVI 1607S	7,5	10	118,1			112,0	109,2	105,8	100,1	96,7	91,0	84,5	68,5	48,5
SVI 1608S	7,5	10	134,9			128,0	124,8	120,9	114,4	110,6	104,0	96,5	78,3	55,4
SVI 1610S	11	15	168,7			160,0	156,0	151,1	143,0	138,2	130,0	120,7	97,9	69,3
SVI 1612S	11	15	202,4			192,0	187,2	181,3	171,6	165,8	156,1	144,8	117,4	83,1
SVI 1614S	15	20	236,1			224,0	218,4	211,6	200,2	193,5	182,1	168,9	137,0	97,0
SVI 1615S	15	20	253,0			240,0	234,1	226,7	214,5	207,3	195,1	181,0	146,8	103,9

Performances in compliance with ISO 9906 - Annex A.

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Black and white technical books available
see www.lowara.it

SVI 33, 46 SERIES
Table of hydrulic performances at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min 0	250	300	366,7	400	500	600	666,7	700	800	900	1000
			m^3/h 0	15	18	22	24	30	36	40	42	48	54	60
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 3301/1S	2,2	3	17,4	16,2	15,7	14,9	14,3	12,2	9,3	6,7				
SVI 3301S	3	4	23,8	21,7	21,2	20,3	19,8	17,8	15,0	12,7				
SVI 3302/2S	4	5,5	35,1	34,1	33,3	31,8	30,8	26,9	21,4	16,6				
SVI 3302/1S	4	5,5	40,8	38,8	37,9	36,3	35,4	31,7	26,6	22,3				
SVI 3303/2S	5,5	7,5	57,7	55,2	53,8	51,4	49,9	44,1	36,2	29,6				
SVI 3303S	7,5	10	71,5	67,4	66,2	64,0	62,7	57,7	50,7	44,6				
SVI 3304S	11	15	95,9	91,1	89,7	87,2	85,7	79,6	70,8	63,1				
SVI 3305/1S	11	15	112,7	107,2	105,3	101,9	99,8	91,7	80,0	70,0				
SVI 3306/2S	15	20	131,2	126,9	124,6	120,3	117,7	107,5	93,2	81,2				
SVI 3307/2S	15	20	156,0	149,9	147,3	142,7	139,8	128,4	112,2	98,2				
SVI 3307S	18,5	25	170,3	162,8	160,2	155,7	153,0	142,2	126,7	113,2				
SVI 3308/1S	18,5	25	187,4	179,5	176,5	171,3	168,1	155,5	137,4	121,7				
SVI 3309/1S	22	30	210,2	201,2	197,8	191,8	188,2	173,8	153,4	135,9				
SVI 3310/2S	22	30	226,4	217,2	213,4	206,8	202,6	186,4	163,5	143,9				
SVI 3310S	30	40	241,8	231,3	227,8	221,7	217,9	202,9	181,1	162,1				
SVI 4601/1S	3	4	19,5			19,2	19,0	17,9	16,4	15,1	14,4	11,7	8,5	4,6
SVI 4601S	4	5,5	27,2			24,0	23,7	22,5	21,1	19,9	19,3	17,1	14,3	10,8
SVI 4602/2S	5,5	7,5	38,8			39,8	39,4	37,8	35,2	32,9	31,6	26,9	21,1	13,9
SVI 4602S	7,5	10	52,6			48,5	48,0	46,1	43,7	41,7	40,6	36,5	31,4	25,1
SVI 4603S	11	15	80,8			74,3	73,5	70,9	67,4	64,6	62,9	57,1	49,8	40,7
SVI 4604/2S	15	20	92,4			90,7	89,9	86,9	82,5	78,6	76,3	68,3	58,2	45,6
SVI 4605S	18,5	25	134,5			125,1	124,0	120,0	114,7	110,2	107,6	98,3	86,4	71,5
SVI 4606S	22	30	161,0			149,8	148,5	143,8	137,4	132,0	128,9	117,8	103,7	86,0
SVI 4607/2S	30	40	171,3			164,9	163,6	158,3	150,8	144,3	140,6	127,1	109,9	88,6
SVI 4608/2S	30	40	198,2			190,0	188,4	182,4	173,8	166,4	162,2	146,9	127,3	103,1
SVI 4609/2S	30	40	224,8			214,5	212,6	205,6	195,7	187,3	182,5	165,2	143,2	116,0

Performances in compliance with ISO 9906 - Annex A.

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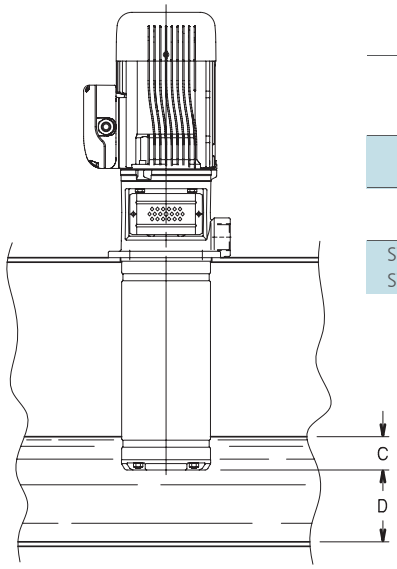
SVI 66, 92 SERIES
Table of hydrulic performances at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min 0	500	600	750	900	1000	1100	1200	1416,7	1600	1800	2000
			m^3/h 0	30	36	45	54	60	66	72	85	96	108	120
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
SVI 6601/1S	4	5,5	23,8	21,4	20,7	19,4	17,8	16,6	15,1	13,3	8,3			
SVI 6601S	5,5	7,5	29,2	25,8	24,8	23,3	21,8	20,7	19,4	17,9	13,4			
SVI 6602/2S	7,5	10	47,5	42,6	41,2	38,6	35,5	32,9	30,0	26,4	16,4			
SVI 6602S	11	15	60,4	55,7	54,4	52,0	49,3	47,1	44,7	42,0	34,6			
SVI 6603/2S	15	20	78,4	71,6	69,6	65,9	61,5	57,9	53,8	49,0	35,3			
SVI 6603S	18,5	25	91,4	84,7	82,7	79,3	75,2	72,0	68,5	64,4	53,5			
SVI 6604/1S	22	30	115,2	105,9	103,1	98,5	92,9	88,6	83,6	77,8	61,7			
SVI 6605/1S	30	40	145,6	134,0	130,5	124,7	117,8	112,4	106,3	99,2	79,4			
SVI 9201/1S	5,5	7,5	24,5			22,2	21,5	20,9	20,2	19,4	17,3	15,0	11,8	7,9
SVI 9201S	7,5	10	33,5			28,7	27,2	26,2	25,3	24,3	22,2	20,2	17,6	14,3
SVI 9202/2S	11	15	49,4			45,1	43,7	42,5	41,2	39,6	35,5	30,9	24,6	16,8
SVI 9202S	15	20	67,8			58,2	55,3	53,4	51,4	49,5	45,3	41,4	36,3	29,6
SVI 9203/2S	18,5	25	82,4			74,4	71,6	69,6	67,3	64,8	58,6	52,2	43,6	32,9
SVI 9203S	22	30	102,2			88,2	84,0	81,2	78,4	75,5	69,2	63,4	55,9	46,3
SVI 9204/2S	30	40	115,7			104,0	99,9	97,0	93,8	90,4	82,2	73,8	62,8	49,0
SVI 9204S	30	40	133,1			117,0	111,7	108,0	104,4	100,6	92,3	84,6	74,8	62,5

Performances in compliance with ISO 9906 - Annex A.

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Installation



MINIMUM IMMERSION LEVEL		DISTANCE FROM THE BOTTOM D mm	
PUMP TYPE	DIMENSION C mm	MINIMUM	RECOMMENDED
SVI2 SVI4	25	20	60
SVI8 SVI16	25	35	80
SVI33-46 SVI66-92	80	60	120

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TDB-TDV Series

Multi-stage vertical pumps with closed radial impellers, coupled with standard motor. Highly reliable series capable of satisfying the needs of a wide variety of users. Available in different materials to meet the needs of an extensive range of applications.

Eight available sizes (22-35-58-78-120-170-220-280) built with a modular construction concept.

Specifications

Delivery: up to 340 m^3/h
Head: over 500 m
Power supply: three-phase 50 Hz
Power: 2.2 kW to 355 kW
Maximum operating pressure:
round flanges PN10/16, PN25/40, PN63
depending on the model
Temperature of pumped liquid:
-10°C to +140°C

Materials

Impeller: Cast iron
Diffuser: Cast iron
Adapter: Cast iron
Shaft: Stainless steel
Mechanical seal: Silicon-carbide/
Resin-impregnated carbon/EPDM
Elastomers: EPDM
FB version: with bronze impeller
N version: AISI 316 stainless steel

Applications

Water supply and pressure boosting

Water treatment

Industry

Irrigation

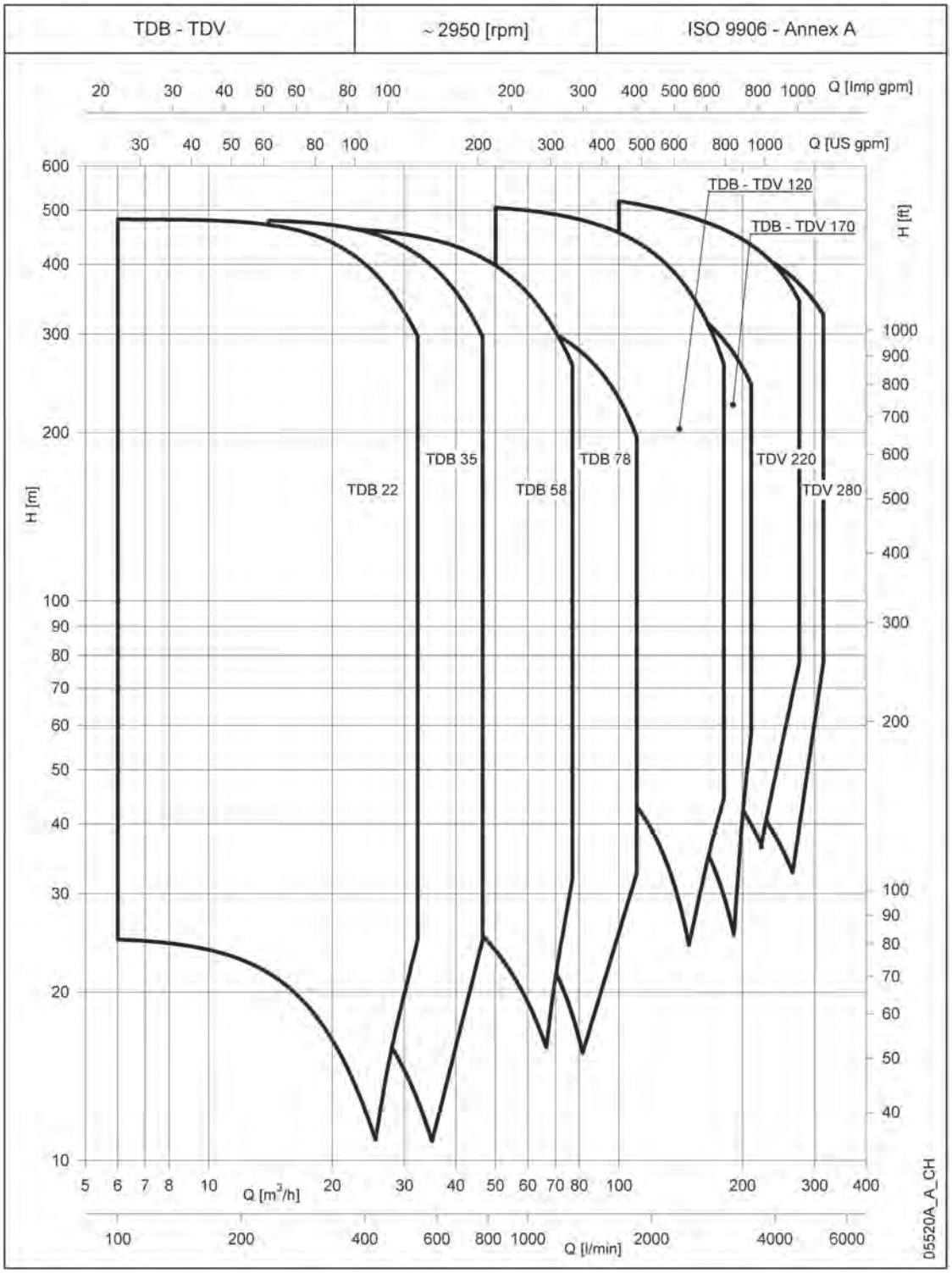
Heating, ventilation and air-conditioning

Available on request:
– Version with 4-pole motor



For a complete list of technical information, consult www.lowara.com

TDB-TDV SERIES
Hydraulic performance range at 50 Hz, 2 poles



TDB22 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	100	166,7	250	300	350	400	441,7	500,0	533,3	583,3
			m^3/h 0	6	10	15	18	21	24	26,5	30	32	35
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB22 01/1C	2,2	3	24,9	24,9	23,8	20,9	18,4	15,4	12,4				
TDB22 01/1B	3	4	32,8	32,8	32,1	30,0	28,1	25,6	22,7	20,0	16,1		
TDB22 01/1A	4	5	40,3	40,1	40,0	38,9	37,6	35,8	33,4	31,1	27,4	25,2	21,8
TDB22 02/2C	4	5	49,9	49,7	47,6	41,8	36,7	30,8					
TDB22 02/1B1C	5,5	7,4	57,7	57,6	55,9	50,9	46,4	41,0	35,0	30,0			
TDB22 02/2B	7,5	10	65,5	65,6	64,2	60,0	56,1	51,2	45,3	40,0			
TDB22 02/1A1B	7,5	10	73,1	72,9	72,1	69,0	65,7	61,4	56,1	51,1	43,5	39,0	
TDB22 02/2A	11	15	80,6	80,3	80,0	77,9	75,3	71,6	66,8	62,1	54,8	50,3	43,7
TDB22 03/2B1C	7,5	10	90,5	90,4	88,0	81,0	74,5	66,6	57,7	50,0			
TDB22 03/3B	11	15	98,3	98,3	96,3	90,1	84,2	76,7	68,0	60,0			
TDB22 03/1A2B	11	15	105,8	105,7	104,2	99,0	93,8	87,0	78,7	71,1	59,5		
TDB22 03/2A1B	15	20	113,4	113,1	112,1	107,9	103,3	97,2	89,5	82,1	70,8	64,2	
TDB22 03/3A	15	20	120,9	120,4	119,9	116,8	112,9	107,4	100,2	93,2	82,1	75,5	65,5
TDB22 04/4B	15	20	131,1	131,1	128,4	120,1	112,2	102,3	90,7	80,0			
TDB22 04/1A3B	15	20	138,6	138,5	136,3	129,0	121,8	112,5	101,4	91,1			
TDB22 04/2A2B	15	20	146,2	145,8	144,2	137,9	131,4	122,8	112,2	102,1	86,9		
TDB22 04/3A1B	15	20	153,7	153,2	152,0	146,8	141,0	133,0	122,9	113,2	98,2	89,3	
TDB22 04/4A	18,5	25	161,2	160,5	159,9	155,7	150,6	143,2	133,7	124,3	109,5	100,6	
TDB22 05/1A4B	15	20	171,4	171,3	168,4	159,0	149,9	138,1	124,1	111,1			
TDB22 05/2A3B	18,5	25	178,9	178,6	176,3	167,9	159,5	148,3	134,8	122,1			
TDB22 05/3A2B	18,5	25	186,5	186,0	184,1	176,8	169,0	158,6	145,6	133,2	114,3		
TDB22 05/4A1B	22	30	194,0	193,3	192,0	185,8	178,6	168,8	156,3	144,3	125,6	114,5	
TDB22 05/5A	22	30	201,6	200,7	199,9	194,7	188,2	179,0	167,1	155,3	136,9	125,8	
TDB22 06/2A4B	22	30	211,7	211,4	208,4	198,0	187,5	173,9	157,5	142,1			
TDB22 06/3A3B	22	30	219,2	218,8	216,2	206,9	197,1	184,1	168,2	153,2			
TDB22 06/4A2B	22	30	226,8	226,1	224,1	215,8	206,7	194,3	179,0	164,3	141,7		
TDB22 06/5A1B	30	40	234,3	233,5	232,0	224,7	216,3	204,6	189,7	175,3	153,0	139,6	
TDB22 06/6A	30	40	241,9	240,8	239,9	233,6	225,9	214,8	200,5	186,4	164,3	150,9	
TDB22 07/3A4B	30	40	252,0	251,5	248,3	236,9	225,2	209,7	190,9	173,2			
TDB22 07/4A3B	30	40	259,6	258,9	256,2	245,8	234,7	219,9	201,7	184,3			
TDB22 07/5A2B	30	40	267,1	266,2	264,1	254,7	244,3	230,1	212,4	195,3	169,1		
TDB22 07/6A1B	30	40	274,6	273,6	272,0	263,6	253,9	240,4	223,2	206,4	180,3	164,8	
TDB22 07/7A	30	40	282,2	280,9	279,9	272,5	263,5	250,6	233,9	217,5	191,6	176,1	
TDB22 08/4A4B	30	40	292,3	291,7	288,3	275,8	262,8	245,5	224,3	204,3			
TDB22 08/5A3B	30	40	299,9	299,0	296,2	284,7	272,4	255,7	235,1	215,3			
TDB22 08/6A2B	30	40	307,4	306,4	304,1	293,7	282,0	265,9	245,8	226,4	196,4		
TDB22 08/7A1B	37	50	315,0	313,7	312,0	302,6	291,6	276,2	256,6	237,5	207,7		
TDB22 08/8A	37	50	322,5	321,1	319,9	311,5	301,1	286,4	267,3	248,5	219,0	201,2	
TDB22 09/5A4B	37	50	332,6	331,8	328,3	314,8	300,4	281,3	257,7	235,3			
TDB22 09/6A3B	37	50	340,2	339,2	336,2	323,7	310,0	291,5	268,5	246,4			
TDB22 09/7A2B	37	50	347,7	346,5	344,1	332,6	319,6	301,7	279,2	257,5	223,8		
TDB22 09/8A1B	37	50	355,3	353,9	352,0	341,5	329,2	312,0	290,0	268,5	235,1		
TDB22 09/9A	37	50	362,8	361,2	359,8	350,4	338,8	322,2	300,7	279,6	246,4	226,4	
TDB22 10/6A4B	37	50	372,9	371,9	368,3	353,7	338,1	317,1	291,2	266,4			
TDB22 10/7A3B	37	50	380,5	379,3	376,2	362,6	347,7	327,3	301,9	277,5			
TDB22 10/8A2B	37	50	388,0	386,6	384,1	371,5	357,3	337,5	312,6	288,5	251,2		
TDB22 10/9A1B	45	60	395,6	394,0	391,9	380,4	366,8	347,8	323,4	299,6	262,5		
TDB22 10/10A	45	60	403,1	401,3	399,8	389,3	376,4	358,0	334,1	310,7	273,8	251,5	
TDB22 11/7A4B	45	60	413,3	412,1	408,3	392,6	375,7	352,9	324,6	297,5			
TDB22 11/8A3B	45	60	420,8	419,4	416,2	401,5	385,3	363,1	335,3	308,5			
TDB22 11/9A2B	45	60	428,3	426,8	424,0	410,5	394,9	373,3	346,1	319,6	278,6		
TDB22 11/10A1B	45	60	435,9	434,1	431,9	419,4	404,5	383,6	356,8	330,7	289,9		
TDB22 11/11A	45	60	443,4	441,5	439,8	428,3	414,1	393,8	367,6	341,7	301,2	276,7	
TDB22 12/8A4B	45	60	453,6	452,2	448,3	431,6	413,4	388,7	358,0	328,5			
TDB22 12/9A3B	45	60	461,1	459,6	456,1	440,5	423,0	398,9	368,7	339,6			
TDB22 12/10A2B	45	60	468,7	466,9	464,0	449,4	432,5	409,1	379,5	350,7	305,9		
TDB22 12/11A1B	55	74	476,2	474,3	471,9	458,3	442,1	419,3	390,2	361,7	317,2		
TDB22 12/12A	55	74	483,7	481,6	479,8	467,2	451,7	429,6	401,0	372,8	328,5	301,8	

Performances in compliance with ISO 9906 - Annex A.

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TDB35 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	233,3	300	333,3	416,7	500	583,3	666,7	750,0	833,3	900
			m^3/h 0	14	18	20	25	30	35	40	45	50	54
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB35 01/1C	3	4	22,6	22,0	21,1	20,3	17,8	14,5	10,8				
TDB35 01/1B	4	5	30,4	30,3	29,7	29,2	27,3	24,5	21,0	17,0			
TDB35 01/1A	5,5	7	39,8	39,9	39,5	39,2	37,9	35,9	33,1	29,8	26,0	21,9	18,8
TDB35 02/2B	7,5	10	60,8	60,5	59,3	58,3	54,6	49,0	41,9	34,0			
TDB35 02/1A1B	11	14,8	70,3	70,2	69,2	68,4	65,2	60,4	54,1	46,8	39,1		
TDB35 02/2A	11	15	79,7	79,9	79,1	78,4	75,8	71,8	66,3	59,6	52,0	43,9	37,5
TDB35 03/3B	11	15	91,3	90,8	89,0	87,5	81,9	73,5	62,9	51,0			
TDB35 03/1A2B	15	20	100,7	100,5	98,9	97,6	92,5	84,9	75,1	63,8	52,1		
TDB35 03/2A1B	15	20	110,1	110,1	108,8	107,6	103,1	96,3	87,3	76,6	65,0	53,7	
TDB35 03/3A	18,5	25	119,5	119,8	118,6	117,6	113,7	107,6	99,4	89,4	77,9	65,8	56,3
TDB35 04/1A3B	18,5	25	131,1	130,7	128,5	126,7	119,8	109,4	96,1	80,8			
TDB35 04/2A2B	18,5	25	140,5	140,4	138,4	136,8	130,4	120,8	108,2	93,6			
TDB35 04/3A1B	22	30	150,0	150,1	148,3	146,8	141,0	132,1	120,4	106,4	91,0		
TDB35 04/4A	22	30	159,4	159,7	158,2	156,8	151,6	143,5	132,6	119,2	103,9	87,8	
TDB35 05/2A3B	22	30	171,0	170,7	168,1	165,9	157,7	145,3	129,2	110,6			
TDB35 05/3A2B	30	40	180,4	180,3	178,0	176,0	168,3	156,7	141,4	123,4	104,1		
TDB35 05/4A1B	30	40	189,8	190,0	187,8	186,0	178,9	168,0	153,6	136,2	117,0		
TDB35 05/5A	30	40	199,2	199,7	197,7	196,0	189,5	179,4	165,7	149,0	129,9	109,7	
TDB35 06/3A3B	30	40	210,8	210,6	207,6	205,1	195,6	181,2	162,4	140,4			
TDB35 06/4A2B	30	40	220,2	220,3	217,5	215,2	206,2	192,5	174,5	153,2	130,1		
TDB35 06/5A1B	30	40	229,7	229,9	227,4	225,2	216,8	203,9	186,7	166,0	143,0		
TDB35 06/6A	37	50	239,1	239,6	237,3	235,3	227,4	215,3	198,9	178,8	155,9		
TDB35 07/4A3B	37	50	250,7	250,5	247,2	244,4	233,5	217,0	195,5	170,2			
TDB35 07/5A2B	37	50	260,1	260,2	257,1	254,4	244,1	228,4	207,7	183,0	156,0		
TDB35 07/6A1B	37	50	269,5	269,9	266,9	264,4	254,7	239,8	219,9	195,8	168,9		
TDB35 07/7A	37	50	278,9	279,6	276,8	274,5	265,3	251,2	232,0	208,5	181,8		
TDB35 08/5A3B	37	50	290,5	290,5	286,7	283,6	271,4	252,9	228,7	200,0			
TDB35 08/6A2B	37	50	299,9	300,2	296,6	293,6	282,0	264,3	240,8	212,8			
TDB35 08/7A1B	45	60	309,4	309,8	306,5	303,6	292,6	275,7	253,0	225,6	194,9		
TDB35 08/8A	45	60	318,8	319,5	316,4	313,7	303,2	287,0	265,2	238,3	207,8		
TDB35 09/6A3B	45	60	330,4	330,4	326,3	322,8	309,3	288,8	261,8	229,8			
TDB35 09/7A2B	45	60	339,8	340,1	336,1	332,8	319,9	300,2	274,0	242,6			
TDB35 09/8A1B	45	60	349,2	349,8	346,0	342,8	330,5	311,6	286,2	255,3	220,9		
TDB35 09/9A	55	74	358,6	359,4	355,9	352,9	341,1	322,9	298,3	268,1	233,8		
TDB35 10/7A3B	55	74	370,2	370,4	365,8	362,0	347,2	324,7	295,0	259,6			
TDB35 10/8A2B	55	74	379,6	380,0	375,7	372,0	357,8	336,1	307,1	272,3			
TDB35 10/9A1B	55	74	389,1	389,7	385,6	382,1	368,4	347,4	319,3	285,1	246,9		
TDB35 10/10A	55	74	398,5	399,4	395,4	392,1	379,0	358,8	331,5	297,9	259,8		
TDB35 11/8A3B	55	74	410,1	410,3	405,4	401,2	385,1	360,6	328,1	289,3			
TDB35 11/9A2B	55	74	419,5	420,0	415,2	411,2	395,7	371,9	340,3	302,1			
TDB35 11/10A1B	55	74	428,9	429,6	425,1	421,3	406,3	383,3	352,5	314,9	272,8		
TDB35 11/11A	75	101	438,3	439,3	435,0	431,3	416,9	394,7	364,6	327,7	285,7		
TDB35 12/9A3B	55	74	449,9	450,2	444,9	440,4	423,0	396,4	361,3	319,1			
TDB35 12/10A2B	75	101	459,3	459,9	454,8	450,4	433,6	407,8	373,4	331,9			
TDB35 12/11A1B	75	101	468,8	469,6	464,7	460,5	444,2	419,2	385,6	344,7	298,8		
TDB35 12/12A	75	101	478,2	479,2	474,5	470,5	454,8	430,6	397,8	357,5	311,7		

Performances in compliance with ISO 9906 - Annex A.

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TDB58 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	383,3	583,3	750	916,7	1000	1083,3	1166,7	1250	1333,3	1400
			m^3/h 0	23	35	45	55	60	65	70	75	80	84
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB58 01/1C	7,5	10	34,0	32,5	29,4	25,8	21,5	19,1	16,7				
TDB58 01/1B	7,5	10	43,4	42,5	40,0	36,9	32,7	30,3	27,7	24,9	21,9		
TDB58 01/1A	11	15	54,6	53,9	51,9	48,9	44,6	42,1	39,3	36,3	33,2	30,0	27,4
TDB58 02/2C	15	20	68,0	65,0	58,8	51,7	43,0	38,3	33,4				
TDB58 02/1B1C	15	20	77,4	75,0	69,5	62,7	54,2	49,4	44,3	39,0			
TDB58 02/2B	18,5	25	86,8	84,9	80,1	73,7	65,4	60,6	55,3	49,7	43,8		
TDB58 02/1A1B	18,5	25	97,9	96,4	91,9	85,8	77,3	72,3	66,9	61,1	55,1	48,8	
TDB58 02/2A	22	30	109,1	107,8	103,8	97,8	89,2	84,1	78,5	72,5	66,3	59,9	54,9
TDB58 03/2B1C	22	30	120,8	117,4	109,5	99,6	86,9	79,7	72,0				
TDB58 03/3B	30	40	130,1	127,4	120,1	110,6	98,1	90,9	83,0	74,6			
TDB58 03/1A2B	30	40	141,3	138,8	132,0	122,6	110,0	102,6	94,6	86,0	77,0		
TDB58 03/2A1B	30	40	152,5	150,3	143,8	134,6	122,0	114,4	106,2	97,4	88,2	78,8	
TDB58 03/3A	37	50	163,7	161,7	155,7	146,7	133,9	126,2	117,8	108,8	99,5	89,9	82,3
TDB58 04/4B	30	40	173,5	169,8	160,1	147,5	130,8	121,1	110,6				
TDB58 04/1A3B	37	50	184,7	181,3	172,0	159,5	142,7	132,9	122,2	110,8			
TDB58 04/2A2B	37	50	195,9	192,7	183,9	171,5	154,7	144,7	133,8	122,3	110,1		
TDB58 04/3A1B	45	60	207,1	204,2	195,7	183,5	166,6	156,5	145,4	133,7	121,4	108,8	
TDB58 04/4A	45	60	218,2	215,6	207,6	195,5	178,5	168,2	157,0	145,1	132,6	119,9	109,8
TDB58 05/1A4B	45	60	228,1	223,7	212,0	196,4	175,5	163,2	149,9	135,7			
TDB58 05/2A3B	45	60	239,3	235,2	223,9	208,4	187,4	175,0	161,5	147,1			
TDB58 05/3A2B	55	74	250,4	246,6	235,8	220,4	199,3	186,7	173,1	158,5	143,3		
TDB58 05/4A1B	55	74	261,6	258,1	247,6	232,4	211,2	198,5	184,7	169,9	154,5	138,8	
TDB58 05/5A	55	74	272,8	269,5	259,5	244,4	223,1	210,3	196,3	181,4	165,8	149,9	137,2
TDB58 06/2A4B	55	74	282,6	277,6	263,9	245,3	220,1	205,3	189,2	172,0			
TDB58 06/3A3B	55	74	293,8	289,1	275,8	257,3	232,0	217,0	200,8	183,4	165,2		
TDB58 06/4A2B	75	101	305,0	300,5	287,7	269,3	243,9	228,8	212,4	194,8	176,4		
TDB58 06/5A1B	75	101	316,2	312,0	299,5	281,3	255,8	240,6	224,0	206,2	187,7	168,7	
TDB58 06/6A	75	101	327,3	323,4	311,4	293,3	267,7	252,4	235,6	217,6	198,9	179,8	164,7
TDB58 07/3A4B	75	101	337,2	331,5	315,8	294,2	264,7	247,3	228,4	208,2	187,1		
TDB58 07/4A3B	75	101	348,4	343,0	327,7	306,2	276,6	259,1	240,0	219,7	198,4		
TDB58 07/5A2B	75	101	359,5	354,4	339,6	318,2	288,5	270,9	251,6	231,1	209,6	187,6	
TDB58 07/6A1B	75	101	370,7	365,9	351,4	330,2	300,4	282,6	263,2	242,5	220,8	198,7	
TDB58 07/7A	75	101	381,9	377,3	363,3	342,2	312,3	294,4	274,8	253,9	232,1	209,8	192,1
TDB58 08/4A4B	75	101	391,7	385,4	367,7	343,0	309,3	289,4	267,7	244,5			
TDB58 08/5A3B	90	121	402,9	396,9	379,6	355,1	321,2	301,2	279,3	255,9	231,5		
TDB58 08/6A2B	90	121	414,1	408,3	391,5	367,1	333,1	312,9	290,9	267,3	242,7		
TDB58 08/7A1B	90	121	425,3	419,8	403,3	379,1	345,1	324,7	302,5	278,8	254,0	228,7	
TDB58 08/8A	90	121	436,5	431,2	415,2	391,1	357,0	336,5	314,1	290,2	265,2	239,8	219,6
TDB58 09/5A4B	90	121	446,3	439,3	419,6	391,9	353,9	331,4	306,9	280,8			
TDB58 09/6A3B	90	121	457,5	450,8	431,5	403,9	365,9	343,2	318,5	292,2	264,7		
TDB58 09/7A2B	90	121	468,7	462,2	443,4	416,0	377,8	355,0	330,1	303,6	275,9		

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TDB78 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	500	833,3	1000	1166,7	1333,3	1416,7	1500	1583,3	1700	1850
			m^3/h 0	30	50	60	70	80	85	90	95	102	111
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB78 01/1C	7,5	10	33,8	32,5	29,0	25,9	21,8	16,5					
TDB78 01/1B	11	15	44,4	43,5	40,9	38,5	35,2	31,2	28,9	26,3	23,7		
TDB78 01/1A	15	20	59,6	57,8	54,9	52,7	50,0	46,8	44,9	42,9	40,7	37,3	32,4
TDB78 02/1B1C	18,5	25	78,2	76,1	69,9	64,4	57,0	47,7	42,3				
TDB78 02/2B	22	30	88,8	87,1	81,8	76,9	70,5	62,4	57,7	52,7			
TDB78 02/1A1B	30	40	104,0	101,4	95,7	91,2	85,3	78,0	73,8	69,3	64,4	56,9	
TDB78 02/2A	37	50	119,1	115,6	109,7	105,4	100,1	93,6	89,9	85,8	81,4	74,7	64,8
TDB78 03/3B	37	50	133,2	130,6	122,6	115,4	105,7	93,6	86,6	79,0	71,0		
TDB78 03/1A2B	37	50	148,4	144,9	136,6	129,6	120,5	109,2	102,7	95,6	88,0		
TDB78 03/2A1B	45	60	163,5	159,2	150,6	143,9	135,3	124,8	118,7	112,2	105,1	94,3	
TDB78 03/3A	55	74	178,7	173,4	164,6	158,1	150,1	140,4	134,8	128,7	122,2	112,0	97,3
TDB78 04/1A3B	55	74	192,8	188,4	177,5	168,1	155,8	140,4	131,5	122,0	111,7		
TDB78 04/2A2B	55	74	207,9	202,7	191,5	182,3	170,5	156,0	147,6	138,5	128,7	113,9	
TDB78 04/3A1B	75	101	223,1	217,0	205,4	196,6	185,3	171,6	163,7	155,1	145,8	131,6	
TDB78 04/4A	75	101	238,2	231,2	219,4	210,8	200,1	187,2	179,7	171,7	162,9	149,3	129,7
TDB78 05/2A3B	75	101	252,3	246,2	232,3	220,8	205,8	187,2	176,5	164,9	152,4		
TDB78 05/3A2B	75	101	267,5	260,5	246,3	235,0	220,6	202,7	192,5	181,4	169,5	151,2	
TDB78 05/4A1B	75	101	282,6	274,8	260,3	249,3	235,4	218,3	208,6	198,0	186,5	168,9	
TDB78 05/5A	90	121	297,8	289,1	274,3	263,5	250,2	233,9	224,7	214,6	203,6	186,7	162,1
TDB78 06/3A3B	90	121	311,9	304,1	287,2	273,5	255,8	233,9	221,4	207,8	193,1		
TDB78 06/4A2B	90	121	327,0	318,3	301,2	287,7	270,6	249,5	237,5	224,4	210,2	188,6	
TDB78 06/5A1B	90	121	342,2	332,6	315,1	302,0	285,4	265,1	253,5	240,9	227,2	206,3	

Performances in compliance with ISO 9906 - Annex A.

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Black and white technical books available
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TDB-TDV120 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	833,3	1083,3	1333,3	1666,7	2000	2333,3	2500	2666,7	2833,3	3066,7
			m^3/h 0	50	65	80	100	120	140	150	160	170	184
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB120 01/1C	22	30	56,7	55,6	54,1	51,6	46,5	39,1	29,0				
TDB120 01/1B	30	40	69,5	68,5	67,1	64,9	60,4	53,9	45,6	40,8	35,7		
TDB120 01/1A	37	50	85,3	84,3	82,6	80,3	76,0	70,3	63,1	59,0	54,4	49,6	42,1
TDB120 02/2C	45	60	113,4	111,2	108,2	103,3	93,1	78,1	58,1				
TDB120 02/1B1C	55	74	126,2	124,1	121,2	116,5	106,9	93,0	74,7	63,8			
TDB120 02/2B	55	74	139,1	137,0	134,3	129,8	120,8	107,9	91,2	81,6	71,3		
TDB120 02/1A1B	75	101	154,8	152,7	149,7	145,2	136,4	124,2	108,7	99,8	90,1	79,8	
TDB120 02/2A	75	101	170,6	168,5	165,2	160,5	151,9	140,5	126,2	117,9	108,9	99,1	84,2
TDB120 03/1B2C	75	101	182,9	179,7	175,3	168,2	153,4	132,1	103,7				
TDB120 03/2B1C	75	101	195,8	192,6	188,4	181,5	167,3	146,9	120,3	104,7			
TDB120 03/3B	90	121	208,6	205,4	201,4	194,8	181,2	161,8	136,8	122,5			
TDB120 03/1A2B	90	121	224,4	221,2	216,9	210,1	196,7	178,1	154,3	140,6	125,8		
TDV120 03/2A1B	110	148	240,2	237,0	232,4	225,5	212,3	194,5	171,8	158,7	144,6	129,3	
TDV120 03/3A	110	148	255,9	252,8	247,8	240,8	227,9	210,8	189,3	176,9	163,3	148,7	126,3
TDV120 04/4B	110	148	278,1	273,9	268,5	259,7	241,5	215,7	182,4	163,3			
TDV120 04/1A3B	132	177	293,9	289,7	284,0	275,0	257,1	232,1	199,9	181,4			
TDV120 04/2A2B	132	177	309,7	305,5	299,5	290,4	272,7	248,4	217,4	199,6	180,2		
TDV120 04/3A1B	160	215	325,5	321,2	315,0	305,7	288,3	264,7	234,9	217,7	199,0	178,9	
TDV120 04/4A	160	215	341,3	337,0	330,5	321,1	303,9	281,1	252,4	235,8	217,8	198,2	168,4
TDV120 05/1A4B	160	215	363,4	358,2	351,2	339,9	317,5	286,0	245,5	222,2			
TDV120 05/2A3B	160	215	379,2	373,9	366,6	355,3	333,1	302,3	263,0	240,4			
TDV120 05/3A2B	160	215	395,0	389,7	382,1	370,6	348,7	318,7	280,5	258,5	234,7		
TDV120 05/4A1B	200	268	410,8	405,5	397,6	386,0	364,3	335,0	298,0	276,7	253,4	228,4	
TDV120 05/5A	200	268	426,6	421,3	413,1	401,3	379,8	351,3	315,5	294,8	272,2	247,8	210,5
TDV120 06/2A4B	200	268	448,8	442,4	433,8	420,2	393,5	356,3	308,6	281,2			
TDV120 06/3A3B	200	268	464,5	458,2	449,2	435,6	409,1	372,6	326,1	299,3	270,3		
TDV120 06/4A2B	200	268	480,3	474,0	464,7	450,9	424,6	388,9	343,6	317,5	289,1		
TDV120 06/5A1B	200	268	496,1	489,8	480,2	466,3	440,2	405,3	361,1	335,6	307,9	278,0	
TDV120 06/6A	200	268	511,9	505,5	495,7	481,6	455,8	421,6	378,6	353,8	326,7	297,4	

Performances in compliance with ISO 9906 - Annex A.

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TDB-TDV170 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	1250	1666,7	2000	2333,3	2666,7	3000	3333,3	3583,3	3833,3	4033,3
			m^3/h 0	75	100	120	140	160	180	200	215	230	242
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDB170 01/1C	30	40	55,6	52,8	49,8	46,6	42,3	36,8	29,8				
TDB170 01/1B	37	50	67,8	66,1	63,8	61,0	57,1	52,2	46,2	39,1	33,2		
TDB170 01/1A	45/55	60/74	89,8	85,8	82,5	79,3	75,8	71,7	66,9	61,2	56,1	50,2	44,7
TDB170 02/2C	55	74	111,2	105,6	99,7	93,2	84,6	73,6	59,5				
TDB170 02/1B1C	55	74	123,4	118,9	113,7	107,5	99,4	89,0	75,9				
TDB170 02/2B	75	101	135,6	132,3	127,6	121,9	114,2	104,4	92,4	78,3	66,3		
TDB170 02/1A1B	90	121	157,6	151,9	146,3	140,3	132,9	123,8	113,1	100,3	89,3	76,8	
TDV170 02/2A	110	148	179,5	171,6	164,9	158,7	151,5	143,3	133,8	122,3	112,2	100,3	89,4
TDV170 03/2B1C	110	148	191,2	185,1	177,5	168,5	156,5	141,1	122,1	99,1			
TDV170 03/3B	110	148	203,3	198,4	191,5	182,9	171,3	156,5	138,5	117,4	99,5		
TDV170 03/1A2B	110	148	225,3	218,1	210,1	201,2	190,0	176,0	159,2	139,4	122,4		
TDV170 03/2A1B	132	177	247,3	237,7	228,8	219,6	208,6	195,5	179,9	161,5	145,3	127,0	
TDV170 03/3A	160	215	269,3	257,4	247,4	238,0	227,3	215,0	200,6	183,5	168,3	150,5	134,1
TDV170 04/1A3B	160	215	293,1	284,2	273,9	262,2	247,1	228,2	205,4	178,5	155,6		
TDV170 04/2A2B	160	215	315,1	303,9	292,6	280,6	265,7	247,7	226,1	200,6	178,5		
TDV170 04/3A1B	200	268	337,1	323,5	311,2	299,0	284,4	267,2	246,8	222,6	201,4	177,2	
TDV170 04/4A	200	268	359,1	343,2	329,9	317,3	303,1	286,7	267,5	244,7	224,4	200,6	178,7
TDV170 05/2A3B	200	268	382,9	370,0	356,4	341,5	322,8	299,9	272,3	239,7			
TDV170 05/3A2B	200	268	404,9	389,7	375,1	359,9	341,5	319,4	293,0	261,7			

Performances in compliance with ISO 9906 - Annex A.

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TDV220 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	1666,7	2000	2333,3	2666,7	3000	3333,3	3716,7	4166,7	4633,3	5000
			m^3/h 0	100	120	140	160	180	200	223	250	278	300
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDV220 01/1D	45	60	66,5	61,0	58,2	55,0	51,2	47,0	42,4	36,5			
TDV220 01/1C	55	74	79,3	74,5	72,1	69,3	66,1	62,4	58,2	52,7	45,1		
TDV220 01/1B	75	101	94,9	90,4	88,1	85,6	82,6	79,3	75,6	70,6	63,6	54,5	
TDV220 01/1A	90	121	120,0	112,8	110,1	107,3	104,3	101,0	97,4	92,7	85,8	76,6	67,4
TDV220 02/1C1D	90	121	145,8	135,5	130,4	124,3	117,3	109,4	100,6				
TDV220 02/2C	90	121	158,6	149,0	144,3	138,7	132,2	124,8	116,4				
TDV220 02/1B1C	110	148	174,2	164,9	160,3	154,9	148,7	141,7	133,8	123,3			
TDV220 02/2B	132	177	189,8	180,8	176,3	171,1	165,2	158,6	151,2	141,2	127,1		
TDV220 02/1A1B	160	215	214,9	203,2	198,3	192,9	186,9	180,4	173,0	163,3	149,4	131,1	
TDV220 02/2A	160	215	239,9	225,6	220,3	214,6	208,6	202,1	194,9	185,3	171,6	153,3	134,7
TDV220 03/1B2C	160	215	253,5	239,4	232,4	224,2	214,8	204,1	192,0	175,9			
TDV220 03/2B1C	160	215	269,1	255,3	248,4	240,5	231,4	221,1	209,4	193,9			
TDV220 03/3B	200	268	284,7	271,2	264,4	256,7	247,9	238,0	226,8	211,8	190,7		
TDV220 03/1A2B	200	268	309,8	293,6	286,4	278,4	269,5	259,7	248,6	233,9	212,9	185,5	
TDV220 03/2A1B	250	335	334,8	316,0	308,4	300,2	291,2	281,4	270,5	255,9	235,2	207,7	
TDV220 03/3A	250	335	359,9	338,3	330,4	322,0	312,9	303,1	292,3	278,0	257,4	229,9	202,1
TDV220 04/4B	250	335	379,6	361,7	352,6	342,2	330,5	317,3	302,3	282,4			
TDV220 04/1A3B	250	335	404,7	384,0	374,6	364,0	352,2	339,0	324,2	304,5	276,5		
TDV220 04/2A2B	315	422	429,7	406,4	396,6	385,7	373,9	360,7	346,0	326,5	298,8		
TDV220 04/3A1B	315	422	454,8	428,8	418,6	407,5	395,5	382,5	367,9	348,6	321,0	284,3	
TDV220 04/4A	315	422	479,9	451,1	440,6	429,3	417,2	404,2	389,7	370,7	343,3	306,5	269,4
TDV220 05/1A4B	355	476	499,6	474,4	462,7	449,5	434,8	418,3	399,8	375,1			
TDV220 05/2A3B	355	476	524,6	496,8	484,7	471,3	456,5	440,1	421,6	397,2	362,3		
TDV220 05/3A2B	355	476	549,7	519,2	506,7	493,1	478,2	461,8	443,5	419,2	384,6		

Performances in compliance with ISO 9906 - Annex A.

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TDV280 SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	2166,7	2833,3	3333,3	3750	4166,7	4583,3	5000	5416,7	5666,7	6000
			m^3/h 0	130	170	200	225	250	275	300	325	340	360
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
TDV280 01/1D	45	60	65,0	56,9	51,1	46,0	41,2	36,0					
TDV280 01/1C	55	74	77,1	70,0	65,2	60,9	56,7	52,0	46,6	40,6			
TDV280 01/1B	75	101	92,0	85,1	81,0	77,3	73,7	69,7	65,1	59,8	53,7		
TDV280 01/1A	90	121	112,4	107,5	103,3	99,5	95,9	91,7	87,1	81,7	75,5	71,4	65,2
TDV280 02/1C1D	90	121	142,0	126,9	116,4	106,9	97,9	88,0					
TDV280 02/2C	110	148	154,1	140,1	130,5	121,7	113,4	103,9	93,3				
TDV280 02/1B1C	110	148	169,1	155,1	146,2	138,2	130,4	121,6	111,7	100,4			
TDV280 02/2B	132	177	184,1	170,2	162,0	154,6	147,5	139,4	130,1	119,6	107,4		
TDV280 02/1A1B	160	215	204,4	192,6	184,3	176,8	169,6	161,4	152,1	141,5	129,2	121,0	
TDV280 02/2A	200	268	224,8	215,0	206,6	199,0	191,7	183,5	174,1	163,4	151,1	142,7	130,4
TDV280 03/2B1C	200	268	261,1	240,3	227,2	215,4	204,1	191,3	176,8	160,2			
TDV280 03/3B	200	268	276,1	255,3	243,0	231,9	221,2	209,0	195,2	179,3	161,1		
TDV280 03/1A2B	250	335	296,5	277,7	265,3	254,1	243,3	231,1	217,2	201,2	182,9	170,6	
TDV280 03/2A1B	250	335	316,8	300,1	287,6	276,3	265,5	253,2	239,2	223,2	204,8	192,4	
TDV280 03/3A	315	422	337,2	322,5	309,9	298,5	287,6	275,2	261,2	245,1	226,6	214,1	195,7
TDV280 04/4B	315	422	368,1	340,4	324,0	309,1	294,9	278,7	260,2	239,1			
TDV280 04/1A3B	315	422	388,5	362,8	346,3	331,4	317,0	300,8	282,2	261,0	236,6		
TDV280 04/2A2B	315	422	408,8	385,2	368,6	353,6	339,2	322,8	304,2	282,9	258,5	242,0	
TDV280 04/3A1B	355	476	429,2	407,6	390,9	375,8	361,3	344,9	326,2	304,9	280,3	263,7	
TDV280 04/4A	355	476	449,6	430,0	413,3	398,0	383,5	367,0	348,2	326,8	302,1	285,5	260,9
TDV280 05/1A4B	355	476	480,5	447,9	427,3	408,6	390,8	370,5	347,3	320,8			
TDV280 05/2A3B	355	476	500,9	470,3	449,6	430,9	412,9	392,5	369,3	342,7			

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Circulators 2

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TLC Series

In-line wet rotor circulators for residential systems, fixed speed with manual adjustment.

Specifications

Delivery: up to 4 m^3/h
Head: up to 7 m
Power supply: single-phase 50 Hz
Maximum power: 35 W to 89 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid: -10°C to +110°C
Insulation class: H
Protection: IP44

Materials

Pump body: Cast iron cataphoretically coated
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Wear Ring: Ceramic
Bearings: Ceramic
Elastomers: EPDM

Applications

Water circulation in heating and air-conditioning systems

Pumping of chemically and mechanically non-aggressive hot or cold water



For a complete list of technical information, consult www.lowara.com

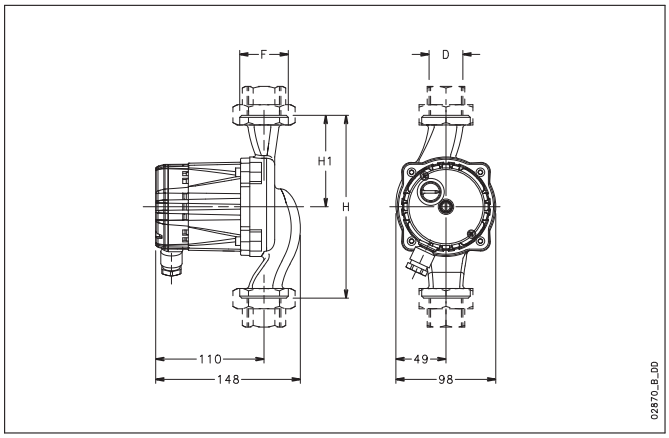
TLC SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,2	0,3	0,5	0,6	0,7	0,8	0,9	1,1
						m^3/h 0	0,6	1,2	1,7	2,0	2,4	2,8	3,2	3,9
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLC 15-2.5	27	0,12	1,5	400	1	2,1	2,0	1,5	1,1	0,8				
TLC 25-2.5L	32	0,14			2	2,3	2,1	1,7	1,3	1,1				
TLC 32-2.5L	35	0,15			3	2,5	2,3	1,9	1,5	1,2	0,9			
TLC 15-4	33	0,14	1,5	400	1	3,5	2,7	1,8	1,2	0,8				
TLC 25-4 (L)	39	0,17			2	3,9	3,2	2,4	1,9	1,6	1,1			
TLC 32-4L	44	0,19			3	4,2	3,5	2,8	2,2	1,9	1,5	0,9		
TLC 15-5	43	0,19	2,0	400	1	3,9	2,9	2,0	1,3	0,8				
TLC 25-5 (L)	63	0,28			2	4,8	4,3	3,7	3,0	2,5	1,8	0,9		
TLC 32-5L	77	0,34			3	5,2	4,9	4,4	3,8	3,5	3,0	2,3	1,8	
TLC 15-6	43	0,19	2,0	400	1	3,4	2,3	1,5	0,9					
TLC 25-6 (L)	65	0,28			2	5,2	4,1	3,0	2,1	1,7	1,1			
TLC 32-6L	80	0,34			3	6,2	5,6	4,7	4,0	3,6	3,0	2,4	1,8	
TLC 15-7	54	0,24	2,0	400	1	5,4	3,6	2,5	1,7	1,4	0,9	0,4		
TLC 25-7L	76	0,34			2	6,6	5,5	4,0	2,9	2,3	1,6	1,0	0,4	
TLC 32-7L	89	0,39			3	7,1	6,6	5,9	5,2	4,7	3,9	2,9	2,0	0,4

Performances according to standards EN 1151-1

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TLC SERIES
Dimensions and weights

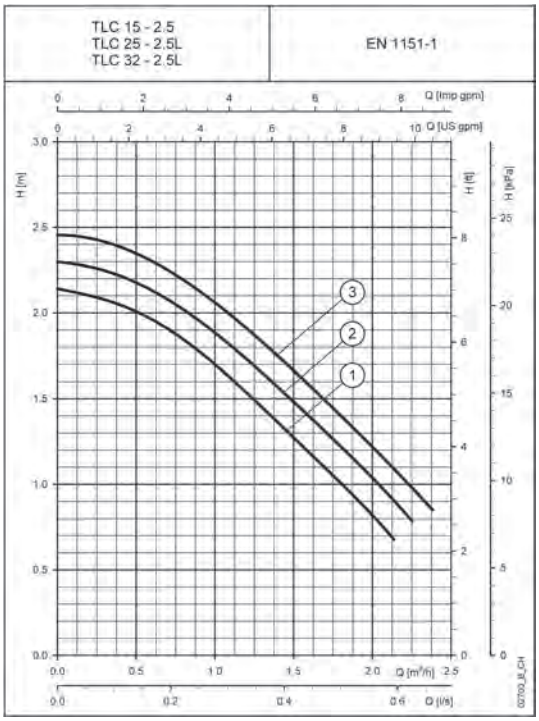


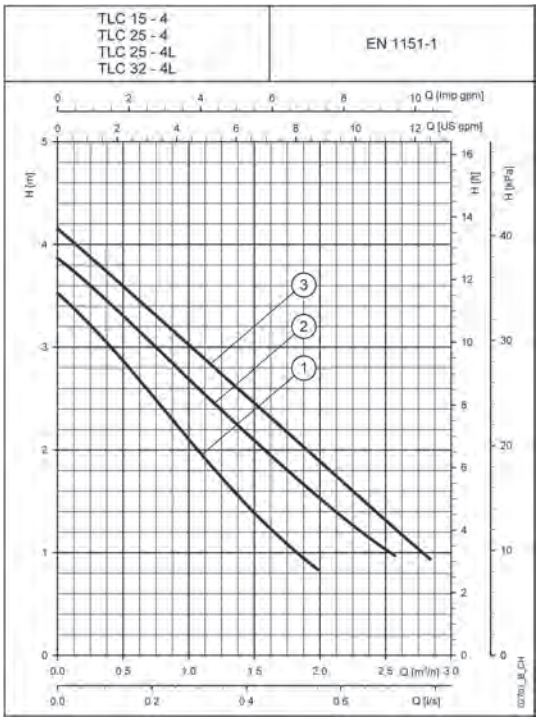
TLC SERIES
Dimensions and weights table

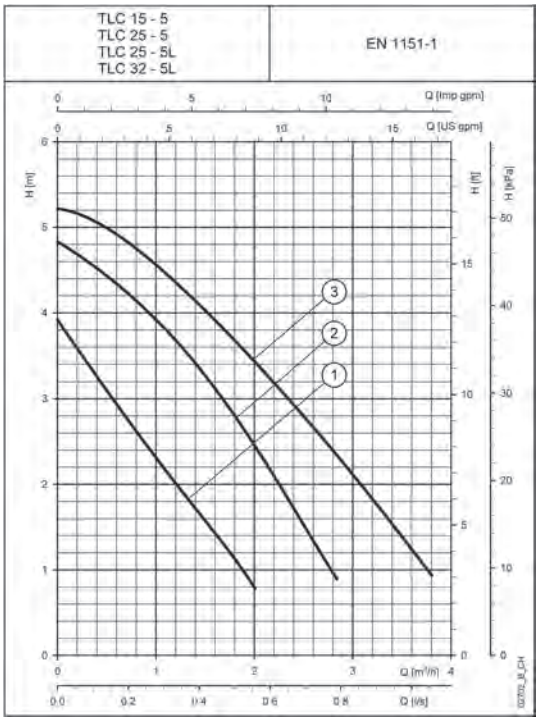
PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLC 15-2.5	130	65	1/2"	G 1"	15	2,6
TLC 25-2.5L	180	90	1"	G 1"½	25	2,7
TLC 32-2.5L	180	90	1"¼	G 2"	32	2,8
TLC 15-4	130	65	1/2"	G 1"	15	2,6
TLC 25-4	130	65	1"	G 1"½	25	2,7
TLC 25-4L	180	90	1"	G 1"½	25	2,7
TLC 32-4L	180	90	1"¼	G 2"	32	2,8
TLC 15-5	130	65	1/2"	G1"	15	2,6
TLC 25-5	130	65	1"	G 1"½	25	2,7
TLC 25-5L	180	90	1"	G 1"½	25	2,7
TLC 32-5L	180	90	1"¼	G 2"	32	2,8
TLC 15-6	130	65	1/2"	G 1"	15	2,6
TLC 25-6	130	65	1"	G 1"½	25	2,7
TLC 25-6L	180	90	1"	G 1"½	25	2,8
TLC 32-6L	180	90	1"¼	G 2"	32	2,8
TLC 15-7	130	65	1/2"	G 1"	15	2,6
TLC 25-7L	180	90	1"	G 1"½	25	2,8
TLC 32-7L	180	90	1"¼	G 2"	32	2,8

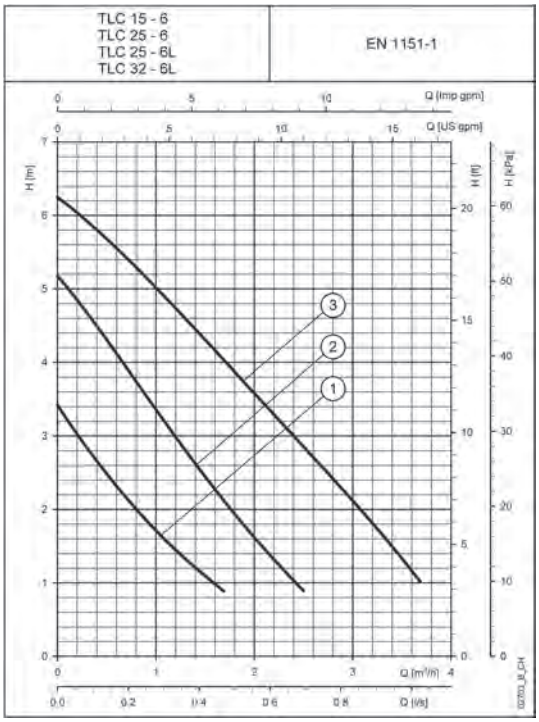
tlc-2p50-en_c_td

TLC SERIES
Single-phase operating characteristics



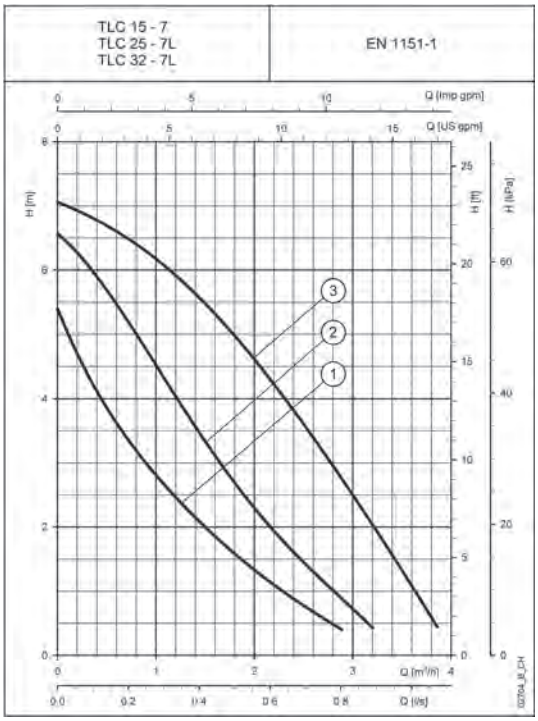






These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

TLC SERIES
Single-phase operating characteristics



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

TLCB Series

In-line wet rotor circulators for hot water circulation, fixed speed with manual adjustment, bronze pump body.

Specifications

Delivery: up to 5 m^3/h
Head: up to 6 m
Power supply: single-phase 50 Hz
Maximum power: 58 W to 100 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid: -10°C to +110°C
Insulation class: H
Protection: IP44

Materials

Pump body: Bronze
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Bearings: Ceramic
Elastomers: EPDM

Applications

Residential hot water systems



For a complete list of technical information, consult www.lowara.com

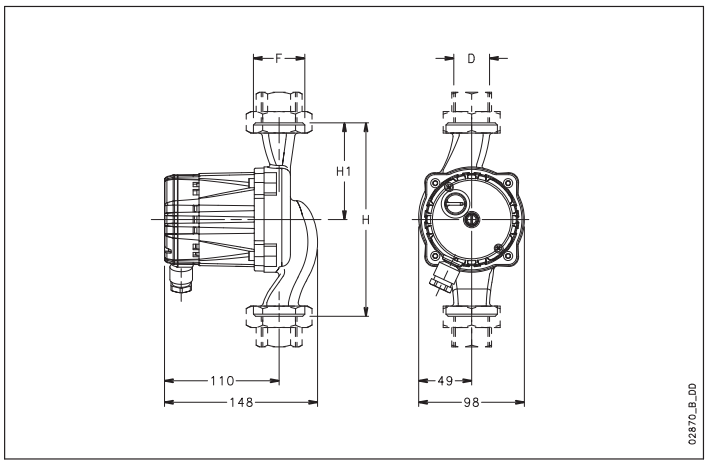
TLCB SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,2	0,3	0,4	0,5	0,7	0,8	1,0	1,2
						m^3/h 0	0,6	1,2	1,5	1,8	2,4	3,0	3,6	4,2
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCB 15-1.5	28	0,16	2,0	400	1	1,0	0,8	0,4	0,2					
TLCB 20-1.5M	43	0,24			2	1,2	1,0	0,6	0,4					
TLCB 25-1.5	58	0,28			3	1,4	1,2	0,8	0,6	0,4				
TLCB 15-3	33	0,17	2,0	400	1	1,3	0,6	0,2						
TLCB 20-3M	48	0,25			2	2,5	1,7	1,0	0,8	0,5				
TLCB 25-3	63	0,30			3	3,0	2,7	2,2	2,0	1,7	1,1			
TLCB 15-4	40	0,19	2,0	400	1	3,0	2,6	2,1	1,9	1,6	1,0			
TLCB 20-4M	59	0,28			2	3,5	3,3	2,9	2,7	2,4	1,8	1,3		
TLCB 25-4 (L)	70	0,33			3	4,0	3,8	3,5	3,3	3,0	2,5	2,0	1,3	
TLCB 15-6	56	0,27	3,0	400	1	3,1	1,9	1,2	0,9	0,6				
TLCB 20-6M	83	0,37			2	4,7	3,6	2,7	2,3	1,9	1,2	0,7		
TLCB 25-6L	100	0,44			3	5,6	5,0	4,4	4,0	3,7	3,1	2,4	1,8	1,2

Performances according to standards EN 1151-1

tlcb-2p50-en_b_th

TLCB SERIES
Dimensions and weights

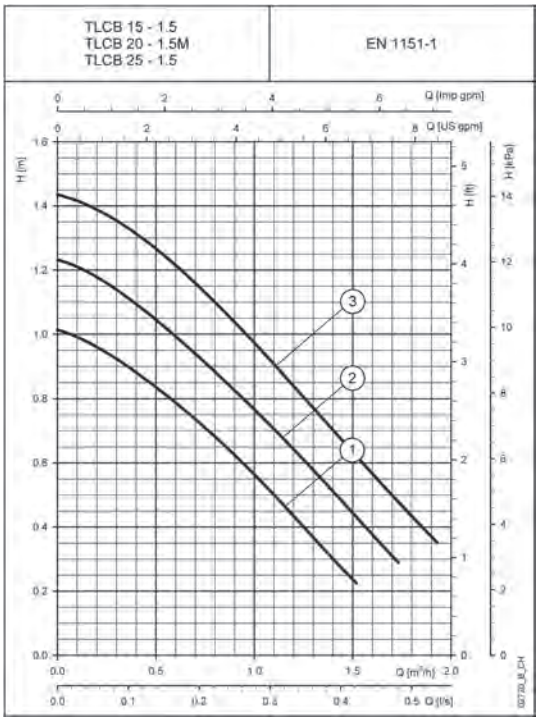


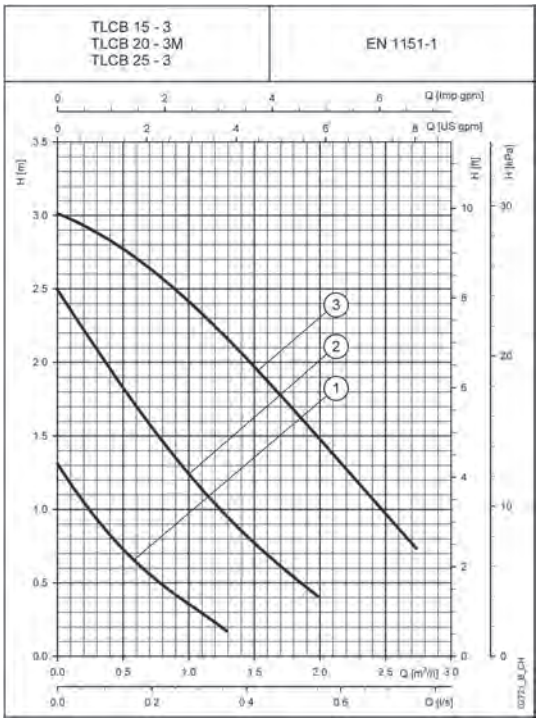
TLCB SERIES
Dimensions and weights table

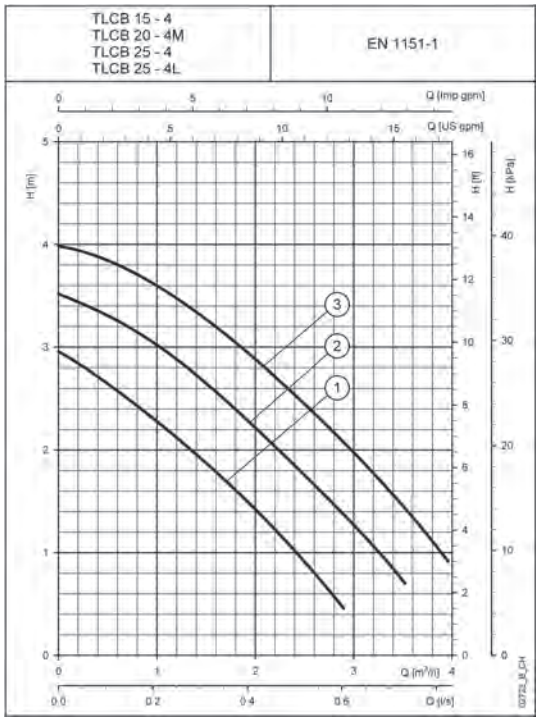
PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLCB 15-1.5	130	65	1/2"	G 1"	15	2,9
TLCB 20-1.5M	150	75	3/4"	G 1"¼	20	3
TLCB 25-1.5	130	65	1"	G 1"½	25	3
TLCB 15-3	130	65	1/2"	G 1"	15	2,9
TLCB 20-3M	150	75	3/4"	G 1"¼	20	3
TLCB 25-3	130	65	1"	G 1"½	25	3
TLCB 15-4	130	65	1/2"	G 1"	15	2,9
TLCB 20-4M	150	75	3/4"	G 1"¼	20	3
TLCB 25-4	130	65	1"	G 1"½	25	3
TLCB 25-4L	180	90	1"	G 1"½	25	3,1
TLCB 15-6	130	65	1/2"	G 1"	15	2,9
TLCB 20-6M	150	75	R¾	G 1"¼	20	3
TLCB 25-6L	180	90	R 1	G 1"½	25	3,1

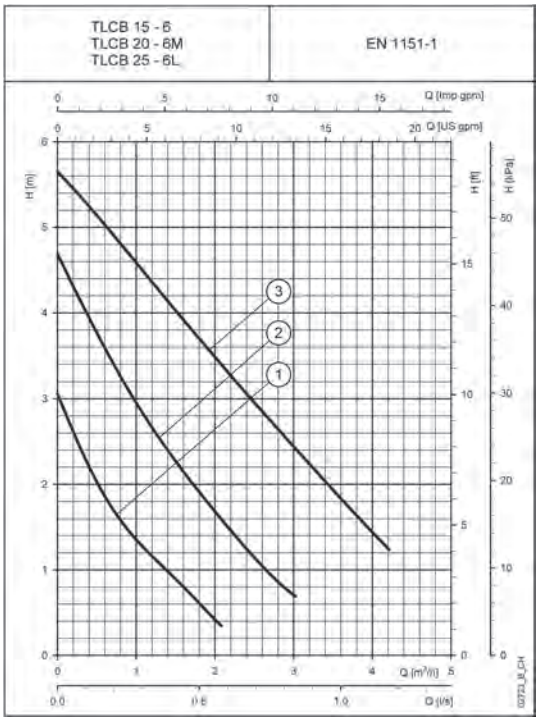
tlcb-2p50-en_c_td

TLCB SERIES
Single-phase operating characteristiques









These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

TLCH Series

In-line wet rotor circulators for light commercial systems, fixed speed with manual adjustment.

Specifications

Delivery: up to 12 m^3/h
Head: up to 12 m
Power supply: single-phase 50 Hz
Maximum power: 260 W to 400 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid: -10°C to +110°C
Insulation class: H
Protection: IP44

Materials

Pump body: Cast iron cataphoretically coated
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Bearings: Ceramic
Elastomers: EPDM

Applications

Water circulation in heating and air-conditioning systems for high head/high flow

Pumping of chemically and mechanically non-aggressive hot or cold water



For a complete list of technical information, consult www.lowara.com

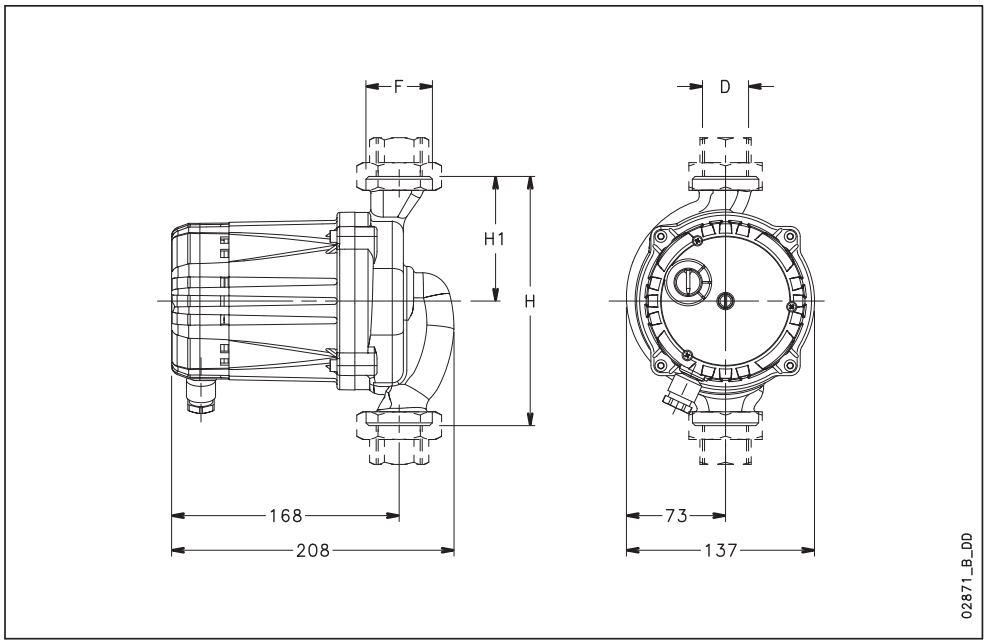
TLCH SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7
						m^3/h 0	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,6
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCH 25-7L TLCH 32-7L	220	1,03	8,0	400	1	5,8	5,1	4,2	3,1	1,9	1,1			
	228	1,04			2	6,7	6,2	5,4	4,4	3,3	2,2	1,2		
	260	1,13			3	7,1	6,7	6,1	5,2	4,2	3,2	2,3	1,4	
TLCH 25-8L TLCH 32-8L	260	1,23	8,0	400	1	6,6	5,9	4,7	3,1	1,8	0,8			
	270	1,24			2	7,5	7,0	6,2	5,1	3,9	2,7	1,7		
	286	1,25			3	8,0	7,6	6,9	5,9	4,8	3,7	2,7	1,7	
TLCH 25-10L TLCH 32-10L	283	1,35	8,0	400	1	8,3	7,0	5,0	2,7	1,1				
	343	1,44			2	9,4	8,7	7,7	6,3	4,6	3,1	1,7		
	357	1,56			3	10,0	9,5	8,8	7,7	6,5	5,1	3,8	2,6	1,5
TLCH 25-12L TLCH 32-12L	285	1,36	8,0	400	1	7,8	6,5	4,5	2,2	0,7				
	372	1,69			2	10,4	9,6	8,5	6,9	5,2	3,4	1,9		
	400	1,73			3	11,9	11,2	10,3	9,2	7,7	6,2	4,7	3,3	2,0

Performances according to standards ISO 9906 - Annex A.

tlch-2p50-en_c_th

TLCH SERIES
Dimensions and weigths

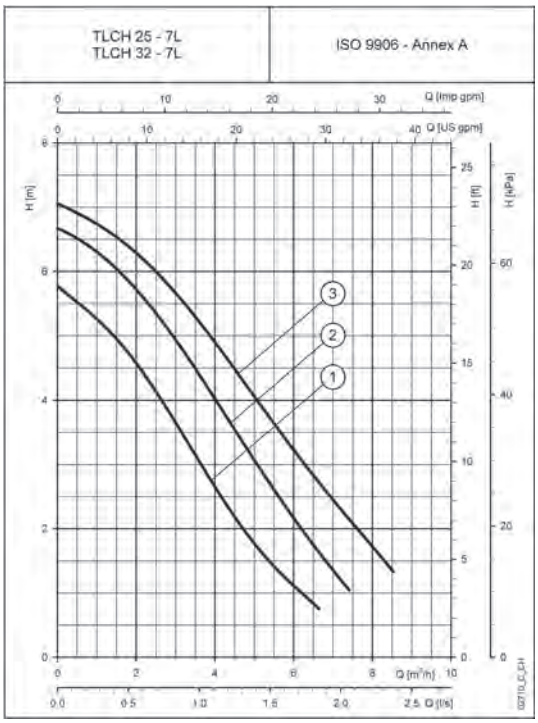


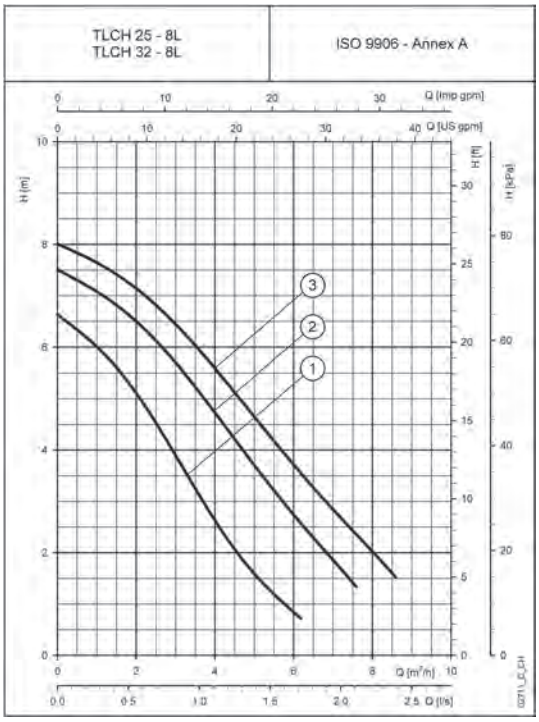
TLCH SERIES
Dimensions and weigths table

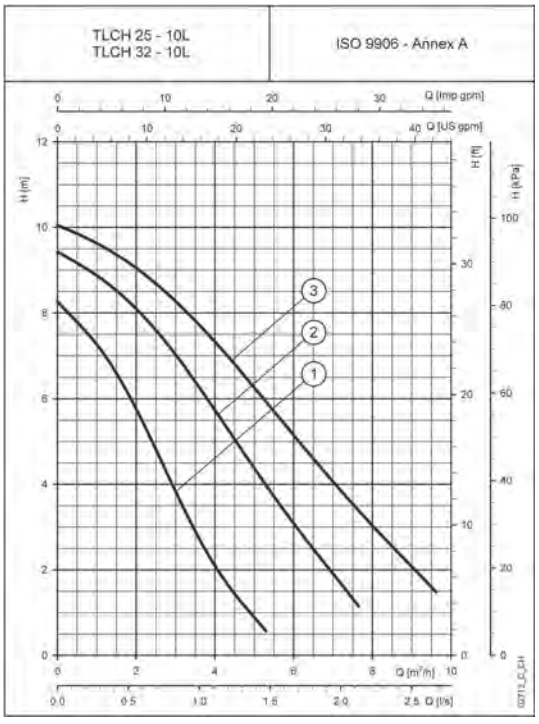
PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLCH 25-7L	180	90	1"	G 1"½	25	6,5
TLCH 32-7L	180	90	1"¼	G 2"	32	6,6
TLCH 25-8L	180	90	1"	G 1"½	25	6,5
TLCH 32-8L	180	90	1"¼	G 2"	32	6,6
TLCH 25-10L	180	90	1"	G 1"½	25	6,5
TLCH 32-10L	180	90	1"¼	G 2"	32	6,6
TLCH 25-12L	180	90	1"	G 1"½	25	6,5
TLCH 32-12L	180	90	1"¼	G 2"	32	6,6

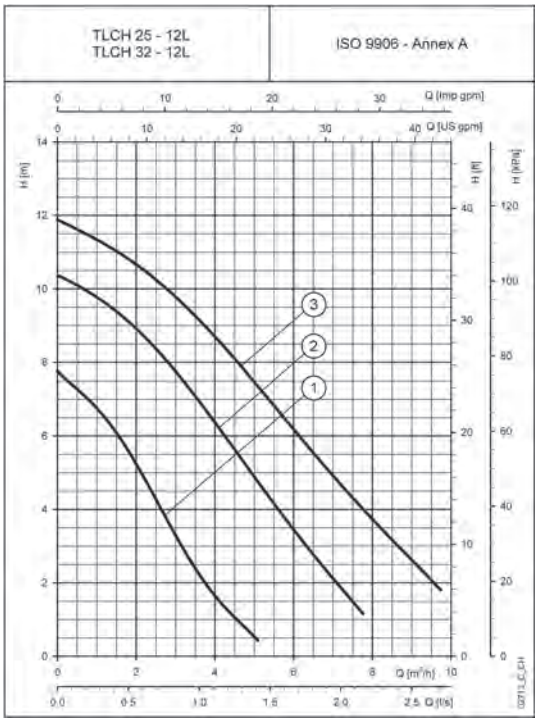
tlch-2p50-en_c_td

TLCH SERIES
Single-phase operating characteristics









These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

TLCHB Series

In-line wet rotor circulators for hot water circulation in light commercial systems, fixed speed with manual adjustment, bronze pump body.

Specifications

Delivery: up to 12 m^3/h
Head: up to 12 m
Power supply: single-phase 50 Hz
Maximum power: 260 W to 400 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid: -10°C to +110°C
Insulation class: H
Protection: IP44

Materials

Pump body: Bronze
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Bearings: Ceramic
Elastomers: EPDM

Applications

Water circulation in heating and air-conditioning systems for high head/high flow



For a complete list of technical information, consult www.lowara.com

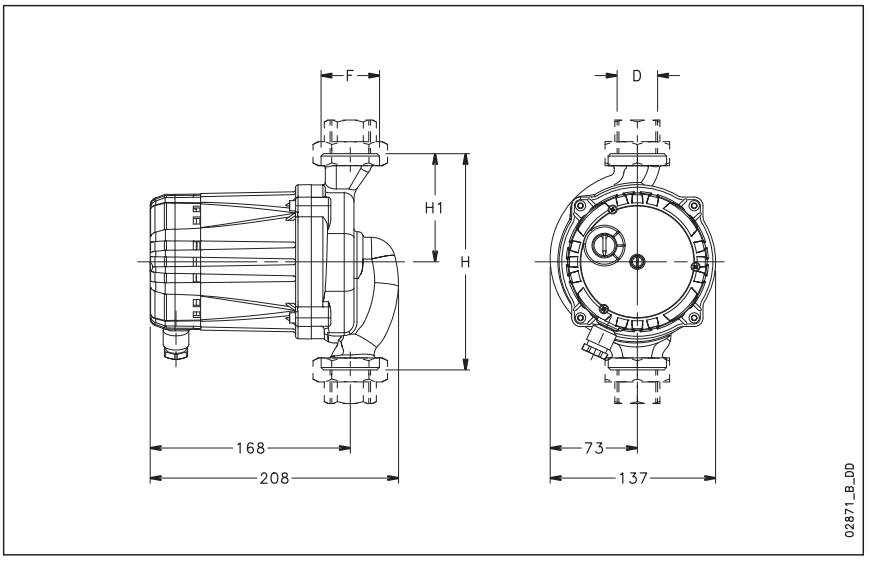
TLCHB SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,3	0,7	1,0	1,3	1,7	2,0	2,3	2,7
						m^3/h 0	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,6
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCHB 20-7L TLCHB 25-7L	220	1,03	8,0	400	1	5,8	5,1	4,2	3,1	1,9	1,1			
	228	1,04			2	6,7	6,2	5,4	4,4	3,3	2,2	1,2		
	260	1,13			3	7,1	6,7	6,1	5,2	4,2	3,2	2,3	1,4	
TLCHB 20-8L TLCHB 25-8L	260	1,23	8,0	400	1	6,6	5,9	4,7	3,1	1,8	0,8			
	270	1,24			2	7,5	7,0	6,2	5,1	3,9	2,7	1,7		
	286	1,25			3	8,0	7,6	6,9	5,9	4,8	3,7	2,7	1,7	
TLCHB 20-10L TLCHB 25-10L	283	1,35	8,0	400	1	8,3	7,0	5,0	2,7	1,1				
	343	1,44			2	9,4	8,7	7,7	6,3	4,6	3,1	1,7		
	357	1,56			3	10,0	9,5	8,8	7,7	6,5	5,1	3,8	2,6	1,5
TLCHB 20-12L TLCHB 25-12L	285	1,36	8,0	400	1	7,8	6,5	4,5	2,2	0,7				
	372	1,69			2	10,4	9,6	8,5	6,9	5,2	3,4	1,9		
	400	1,73			3	11,9	11,2	10,3	9,2	7,7	6,2	4,7	3,3	2,0

Performances according to standards ISO 9906 - Annex A.

tlchb-2p50-en_c_th

TLCHB SERIES
Dimensions and weights

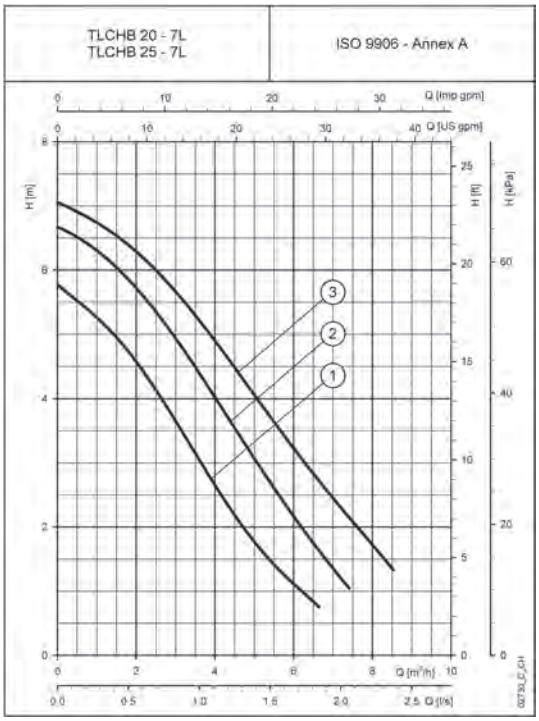


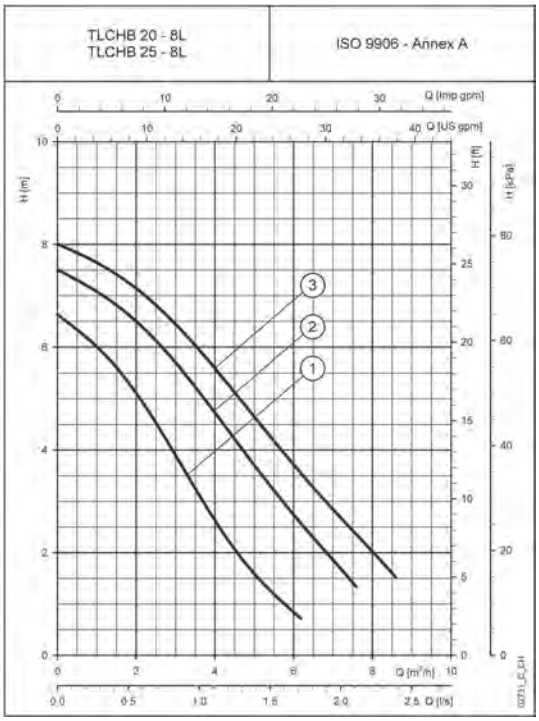
TLCHB SERIES
Dimensions and weights table

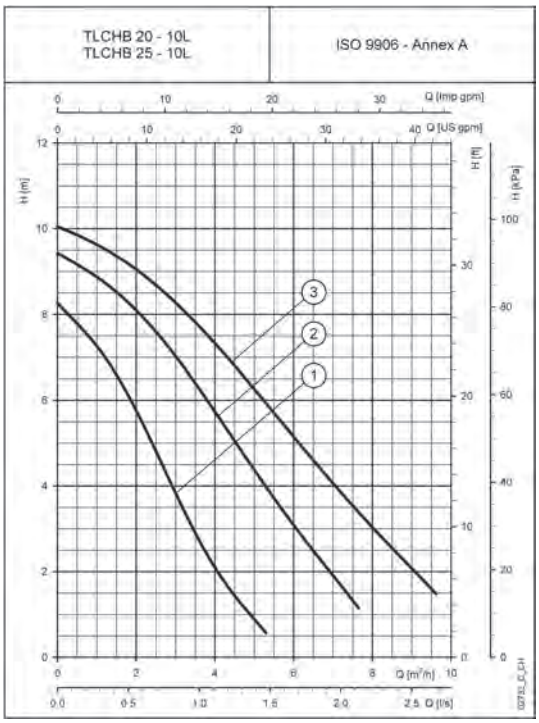
PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLCHB 20-7L	180	90	3/4"	G 1"¼	20	6,7
TLCHB 25-7L	180	90	1"	G 1"½	25	6,7
TLCHB 20-8L	180	90	3/4"	G 1"¼	20	6,7
TLCHB 25-8L	180	90	1"	G 1"½	25	6,7
TLCHB 20-10L	180	90	3/4"	G 1"¼	20	6,7
TLCHB 25-10L	180	90	1"	G 1"½	25	6,7
TLCHB 20-12L	180	90	3/4"	G 1"¼	20	6,7
TLCHB 25-12L	180	90	1"	G 1"½	25	6,7

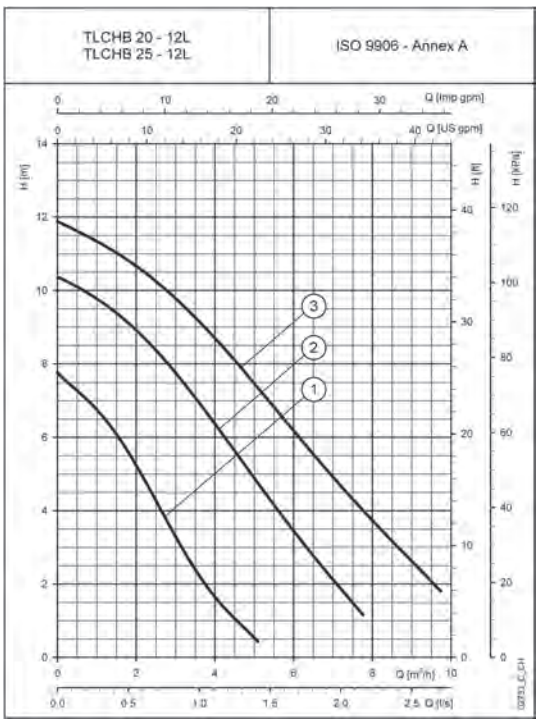
tlchb-2p50-en_c_td

TLCHB SERIES
Single-phase operating characteristics









These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

TLCSOL Series

In-line wet rotor circulators for water circulation in solar systems, fixed speed with manual adjustment.

Specifications

Delivery: up to 4 m^3/h
Head: up to 6 m
Power supply: single-phase 50 Hz
Maximum power: 70 W to 100 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid:
-10°C to +110°C (+130°C can be reached for max 2h)
Insulation class: H
Protection: IP44
Resin-cast stator to avoid water condensation inside the motor

Materials

Pump body: Cast iron cataphoretically coated
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Wear Ring: Ceramic
Bearings: Ceramic
Elastomers: EPDM

Applications

Circulating of hot water in solar systems



For a complete list of technical information, consult www.lowara.com

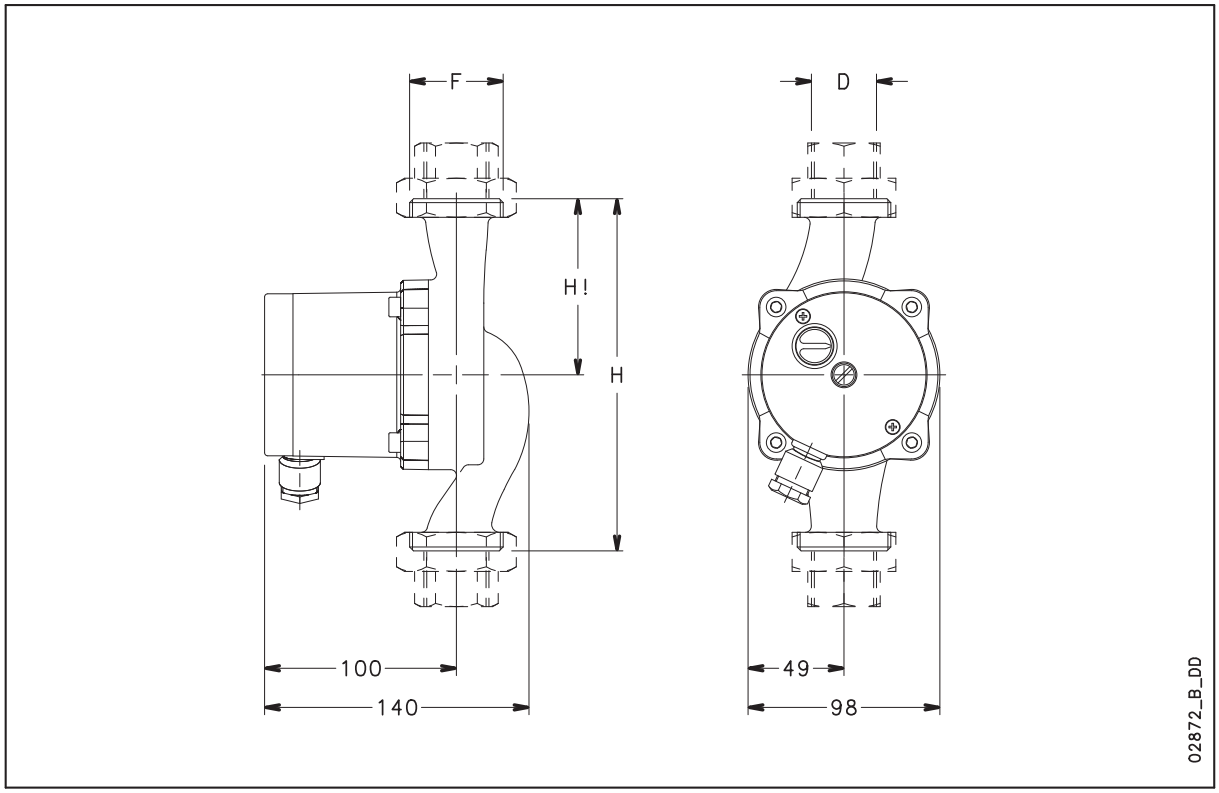
TLCSOL SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,2	0,3	0,4	0,5	0,7	0,8	1,0	1,2
						m^3/h 0	0,6	1,2	1,5	1,8	2,4	3,0	3,6	4,2
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCSOL 15-4 TLCSOL 25-4L	40	0,19	2,0	400	1	2,9	2,6	2,1	1,9	1,6	1,0			
	59	0,28			2	3,5	3,2	2,9	2,6	2,4	1,8	1,2		
	70	0,33			3	4,0	3,8	3,4	3,3	3,0	2,5	2,0	1,3	
TLCSOL 15-6 TLCSOL 25-6L	56	0,27	3,0	400	1	3,0	1,8	1,2	0,9	0,6				
	83	0,37			2	4,7	3,6	2,7	2,3	1,9	1,2	0,7		
	100	0,44			3	5,7	5,0	4,3	4,0	3,7	3,0	2,4	1,8	1,2

Performances according to standards EN 1151-1

tlcsol-2p50-en_b_th

TLCSOL SERIES
Dimensions and weights

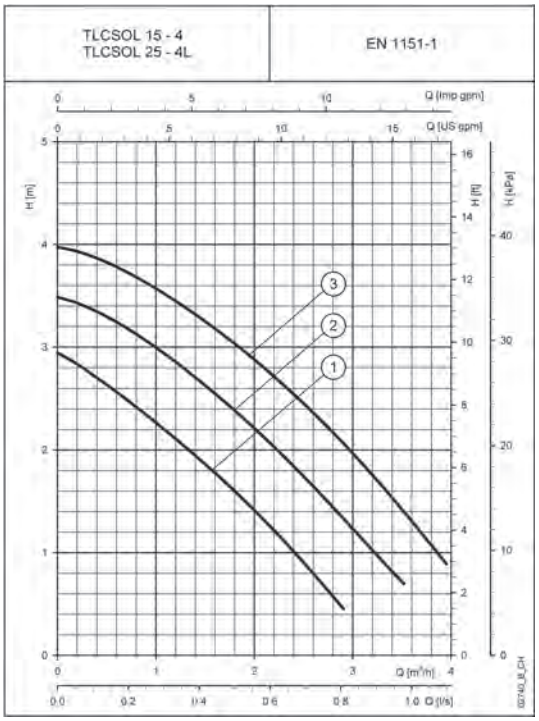


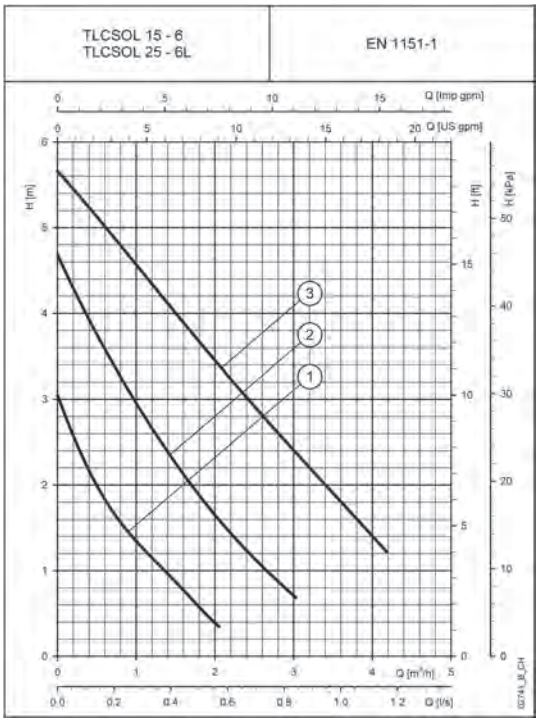
TLCSOL SERIES
Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLCSOL 15-4	130	65	1/2"	G 1"	15	3
TLCSOL 25-4L	180	90	1"	G 1"½	25	3
TLCSOL 15-6	130	65	1/2"	G 1"	15	3
TLCSOL 25-6L	180	90	1"	G 1"½	25	3

tlcsol-2p50-en_c_td

TLCSOL SERIES
Single-phase operating characteristics





These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Black and white technical books available

see www.lowara.it

TLCK Series

In-line wet rotor circulators for water circulation in cooling, airconditioning and geothermal systems, fixed speed with manual adjustment.

Specifications

Delivery: up to 5.5 m^3/h
Head: up to 6 m
Power supply: single-phase 50 Hz
Maximum power: 70 W to 100 W
Maximum operating pressure: 10 bar
Temperature of pumped liquid: -25°C to +110°C
Insulation class: H
Protection: IP44
Resin-cast stator to avoid water condensation inside the motor

Materials

Pump body: Cast iron cataphoretically coated
Impeller: Composite material
Shaft: Ceramic
Lower sleeve: Stainless steel
Wear Ring: Ceramic
Bearings: Ceramic
Elastomers: EPDM

Applications

Circulating of water in air-conditioning and and refrigeration systems and geothermal systems



For a complete list of technical information, consult www.lowara.com

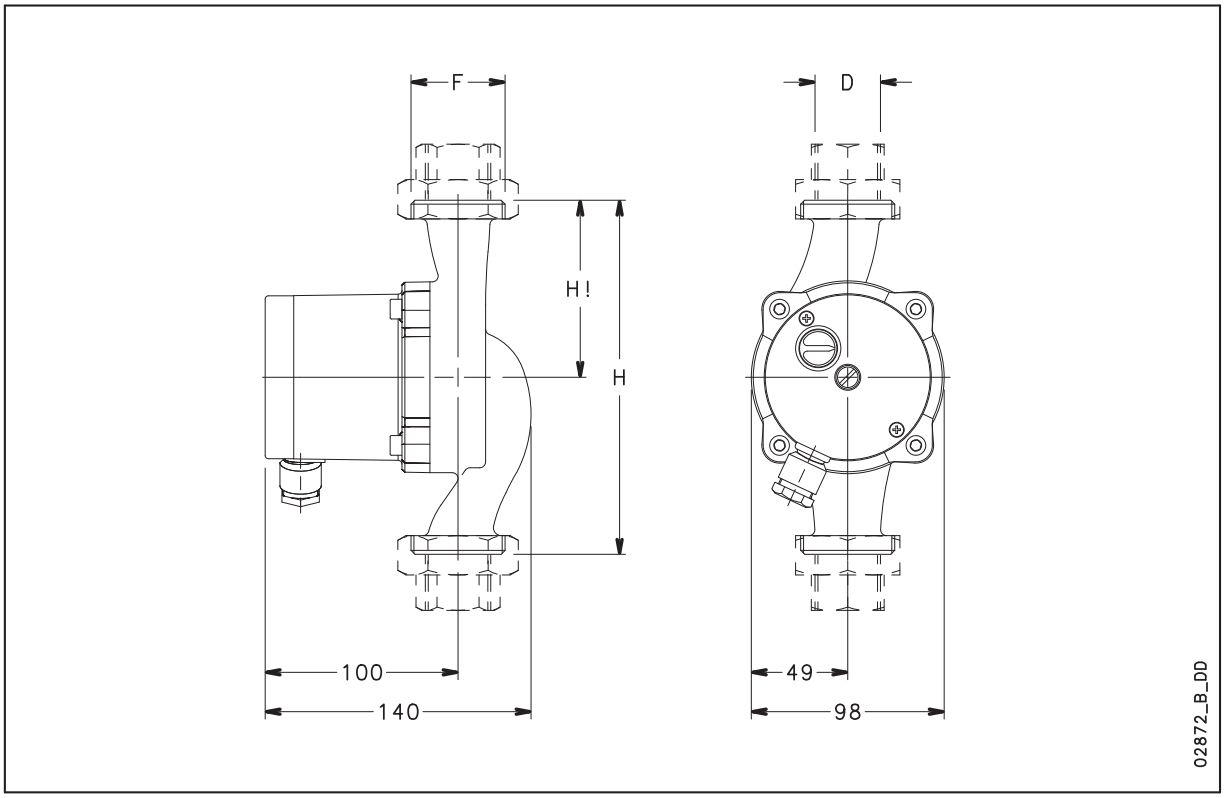
TLCK SERIES
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	0,2	0,3	0,4	0,5	0,7	0,8	1,0	1,2
						m^3/h 0	0,6	1,2	1,5	1,8	2,4	3,0	3,6	4,2
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
TLCK 25-4L	40	0,19	2,0	400	1	2,9	2,6	2,1	1,9	1,6	1,0			
	59	0,28			2	3,5	3,2	2,9	2,6	2,4	1,8	1,2		
	70	0,33			3	4,0	3,8	3,4	3,3	3,0	2,5	2,0	1,3	
TLCK 25-6L	56	0,27	3,0	400	1	3,0	1,8	1,2	0,9	0,6				
	83	0,37			2	4,7	3,6	2,7	2,3	1,9	1,2	0,7		
	100	0,44			3	5,7	5,0	4,3	4,0	3,7	3,0	2,4	1,8	1,2

Performances according to standards EN 1151-1

tlck-2p50-en_b_th

TLCK SERIES
Dimensions and weights

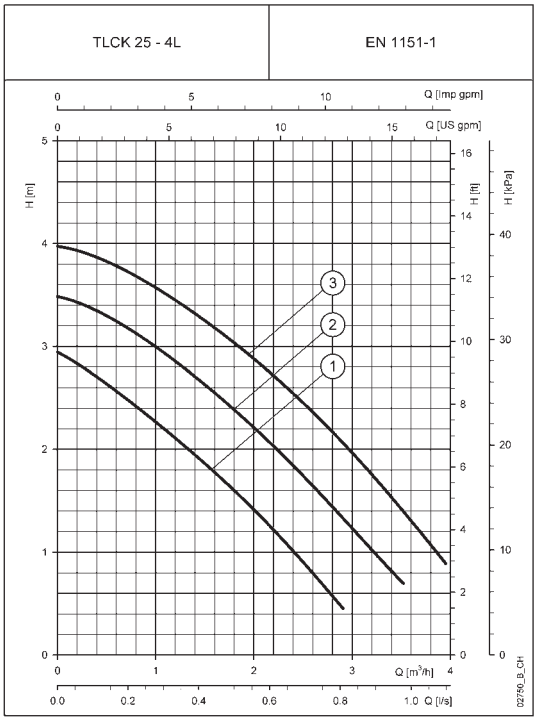


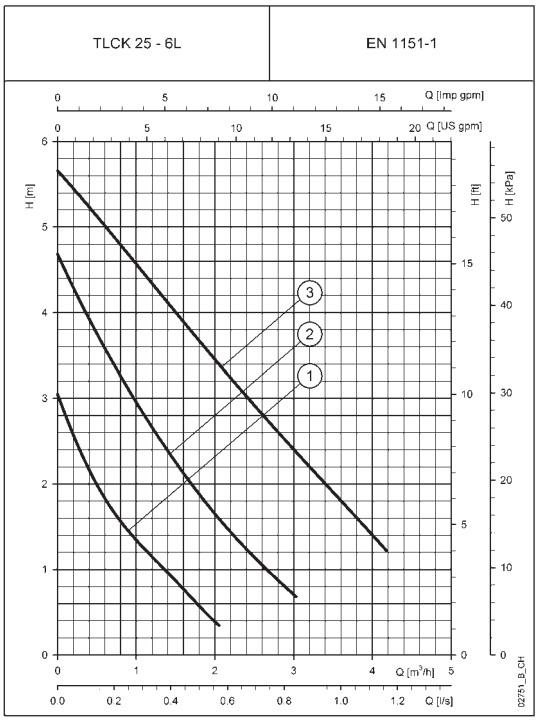
TLCK SERIES
Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
TLCK 25-4L	180	90	1"	G 1"1/2	25	3
TLCK 25-6L	180	90	1"	G 1"1/2	25	3

tlck-2p50-en_c_td

TLCK SERIES
Single-phase operating characteristics





These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.

Black and white technical books available
see www.lowara.it

FLC-FLCT Series

In-line wet rotor circulators for residential systems, fixed speed with manual adjustment, pump body in cast iron, single- or twin-pump version.

Specifications

Delivery:
up to 80 m^3/h (single version)
up to150 m^3/h (with 2 pumps operating)
Head: up to14 m
Power Supply: three-phase and single-phase 50 Hz
Power: 128 W to 2735 W
Maximum operating pressure: 10 bar
Temperature of the pumped liquid -15°C ÷ +120°C
Insulation class: F
Protection: IP 44

Materials

Pump body: Cast iron
Impeller:
Up to FLC(G) 40-7(T): Composite material
From FLC(G) 40-10(T) on: cast iron
Shaft: Stainless steel
Sleeve: Stainless steel
Bearings: Graphite
Elastomers: EPDM

Applications

Water circulation in heating, air conditioning and cooling systems

Pumping of hot/cold, chemically and mechanically non-aggressive liquids



For a complete list of technical information, consult www.lowara.com

FLC SERIES (SINGLE VERSION, SINGLE-PHASE)
Hydraulic performance table

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	1,4	2,8	4,9	6,9	9,0	11,1	13,2	15,3
						m^3/h 0	5,0	10,0	17,5	25,0	32,5	40,0	47,5	55,0
230V 50Hz	W	A	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
* FLC 40-5	128	0,59	6,0	400	1	4,0	2,5							
	136	0,61			2	4,0	3,0	0,3						
	143	0,63			3	4,1	3,2	0,4						
	154	0,70			4	4,1	3,3	0,6						
FLC 40-7	288	1,30	8,0	400	1	7,9	3,9							
	319	1,43			2	8,2	5,7	1,6						
	326	1,44			3	8,3	6,4	2,9						
	326	1,43			4	8,3	6,7	3,6						
FLC 40-10	490	2,24	30,0	400	1	6,8	4,8	2,5						
	585	2,61			2	8,4	6,8	4,3	0,9					
	679	3,02			3	9,3	8,1	6,1	2,3					
	734	3,21			4	9,7	8,7	7,3	4,0					
FLC 50-5	245	1,15	16,0	400	1	4,2	3,3	1,9						
	277	1,26			2	4,7	4,3	3,0	0,3					
	296	1,36			3	4,9	4,6	3,5	1,0					
	311	1,56			4	4,9	4,7	3,8	1,5					
FLC 50-8	459	2,08	25,0	400	1	6,6	5,2	3,1	0,9					
	558	2,50			2	7,7	6,9	4,9	1,9					
	650	2,89			3	8,2	7,9	6,5	3,4	0,8				
	684	3,03			4	8,5	8,4	7,5	4,9	1,9				
FLC 50-10	497	2,24	30,0	400	1	5,6	4,1	2,6	0,7					
	600	2,69			2	7,4	6,0	4,0	1,7					
	719	3,15			3	8,3	7,3	5,4	2,7	0,3				
	800	3,57			4	9,0	8,5	7,1	4,6	1,8				
FLC 50-13	810	3,66	40,0	400	1	9,6	7,9	5,7	2,8					
	986	4,46			2	11,1	10,0	8,0	4,5	1,3				
	1176	5,27			3	11,8	11,0	9,4	6,3	2,8				
	1306	5,88			4	12,4	11,9	10,8	8,5	5,4	1,4			
FLC 65-7	506	2,23	30,0	400	1	4,5	3,5	2,5	1,3					
	590	2,62			2	5,8	4,9	3,7	2,2	0,8				
	657	2,99			3	6,6	5,9	4,8	3,2	1,6				
	711	3,24			4	7,1	6,6	5,8	4,3	2,8	1,1			
FLC 65-10	624	2,77	30,0	400	1	6,5	5,7	4,5	2,8	1,4				
	725	3,19			2	7,4	6,8	5,8	4,0	2,3	0,8			
	826	3,66			3	7,8	7,5	6,6	5,0	3,2	1,5			
	920	4,33			4	8,1	8,0	7,3	5,9	4,2	2,2			
FLC 65-12	801	3,61	40,0	400	1	8,1	6,8	5,1	3,2	1,8	0,4			
	970	4,36			2	9,5	8,6	7,1	4,7	2,9	1,3			
	1159	5,21			3	10,3	9,6	8,4	6,3	4,2	2,3	0,7		
	1296	5,74			4	10,8	10,5	9,7	8,1	6,3	4,3	2,1		
FLC 80-8	650	2,80	30,0	400	1	3,6	3,4	3,1	2,5	1,9	1,3	0,6		
	729	3,15			2	4,3	4,2	3,8	3,3	2,6	1,9	1,1		
	808	3,54			3	5,0	4,8	4,5	3,9	3,2	2,4	1,6		
	902	4,28			4	5,5	5,4	5,1	4,4	3,7	2,9	2,0	1,0	
FLC 80-10	807	3,63	40,0	400	1	4,6	4,4	3,9	3,1	2,2	1,6	1,0		
	986	4,43			2	6,0	5,7	5,2	4,3	3,1	2,1	1,6	1,0	
	1186	5,32			3	7,2	6,9	6,5	5,5	4,4	3,3	2,4	1,8	
	1330	5,87			4	8,1	7,9	7,6	7,0	6,1	5,1	4,1	3,1	1,9

* Performances according to standards EN 1151-1.

Performances according to standards ISO 9906 - Annex A.

flcm-2p50-en_b_th

FLC40..T - FLC50..T SERIES (SINGLE VERSION, THREE-PHASE)
Hydraulic performance table

PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	SPEED	Q = DELIVERY														
				l/s 0	0,6	1,1	1,7	2,2	2,8	3,3	3,9	4,4	5,6	6,7	7,8	8,9	10,0	11,1
				m^3/h 0	2	4	6	8	10	12	14	16	20	24	28	32	36	40
				H = TOTAL HEAD METRES COLUMN OF WATER														
* FLC 40-5T	105	0,17	1	3,6	3,1	2,5	1,6	0,7										
	118	0,21	2	3,7	3,3	2,8	2,1	1,1										
	135	0,25	3	3,9	3,5	3,2	2,5	1,4	0,2									
	150	0,33	4	3,9	3,7	3,4	2,7	1,7	0,5									
FLC 40-7T	209	0,33	1	7,5	5,5	4,6	3,3	1,9	0,7									
	252	0,40	2	7,8	6,3	5,5	4,3	2,9	1,5	0,1								
	296	0,49	3	8,1	6,9	6,3	5,4	4,1	2,5	1,0								
	336	0,61	4	8,3	7,4	7,0	6,3	5,1	3,6	2,0	0,1							
FLC 40-10T	471	0,77	1	7,8	7,0	6,4	5,8	5,0	4,1	3,1	2,3	1,5						
	570	0,92	2	8,5	7,9	7,4	6,9	6,2	5,4	4,5	3,5	2,6	0,9					
	645	1,03	3	9,0	8,7	8,2	7,7	7,1	6,4	5,7	4,9	4,0	2,0					
	699	1,17	4	9,5	9,2	8,8	8,4	7,9	7,3	6,6	5,9	5,0	3,1	1,0				
FLC 50-5T	221	0,43	1	4,3	4,1	3,8	3,3	2,8	2,2	1,6	1,0	0,2						
	264	0,51	2	4,5	4,5	4,2	3,8	3,4	2,9	2,4	1,7	1,0						
	304	0,62	3	4,7	4,8	4,6	4,2	3,9	3,5	3,0	2,4	1,7						
	334	0,78	4	4,8	5,0	4,8	4,5	4,2	3,8	3,4	2,8	2,2	0,5					
FLC 50-8T	495	0,80	1	6,9	6,7	6,5	6,1	5,6	4,9	4,2	3,4	2,6	1,2					
	550	0,88	2	7,6	7,5	7,3	6,9	6,4	5,8	5,1	4,4	3,6	2,1	0,7				
	621	1,00	3	8,2	8,1	8,0	7,7	7,3	6,9	6,3	5,6	4,9	3,2	1,5				
	669	1,13	4	8,5	8,5	8,5	8,3	8,0	7,6	7,1	6,5	5,8	4,2	2,4	0,8			
FLC 50-10T	508	0,83	1	6,9	6,6	6,0	5,4	4,7	4,1	3,5	2,9	2,3	1,2					
	622	1,00	2	7,9	7,7	7,3	6,7	6,1	5,5	4,8	4,2	3,5	2,2	0,9				
	724	1,17	3	8,6	8,5	8,2	7,7	7,1	6,5	5,8	5,2	4,5	3,2	1,7	0,3			
	822	1,39	4	9,4	9,4	9,2	8,8	8,3	7,7	7,1	6,5	5,8	4,5	2,9	1,2			
FLC 50-13T	852	1,39	1	10,6	10,2	9,7	9,1	8,4	7,7	6,9	6,2	5,5	3,9					
	1017	1,68	2	11,6	11,4	11,0	10,5	9,9	9,3	8,6	7,8	7,0	5,4	3,7	1,8			
	1180	1,94	3	12,4	12,2	11,9	11,5	11,0	10,4	9,8	9,2	8,4	6,9	5,1	3,2	1,1		
	1338	2,40	4	13,2	13,2	13,0	12,7	12,3	11,8	11,2	10,6	9,9	8,4	6,7	4,7	2,5		
FLC 50-18T	1507	2,40	1	16,5	16,6	16,2	15,6	14,9	14,1	13,2	12,3	11,4	9,4	7,1	4,4	1,6		
	1768	2,80	2	17,8	18,0	17,8	17,4	16,8	16,1	15,3	14,4	13,6	11,7	9,6	7,0	4,1	1,0	
	2017	3,20	3	18,7	19,0	19,0	18,7	18,3	17,7	17,0	16,3	15,5	13,7	11,7	9,2	6,4	3,2	
	2232	3,66	4	19,6	20,0	20,0	19,8	19,5	19,0	18,5	17,9	17,2	15,7	13,8	11,4	8,6	5,4	1,8

* Performances according to standards EN 1151-1.

Performances according to standards ISO 9906 - Annex A.

flct-1-2p50-en_b_th

FLC65..T - FLC80..T SERIES (SINGLE VERSION, THREE-PHASE)
Hydraulic performance table

PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	SPEED	Q = DELIVERY l/s 0	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9	15,3	16,7	19,4	22,2
				m^3/h 0	5	10	15	20	25	30	35	40	45	50	55	60	70	80
				H = TOTAL HEAD METRES COLUMN OF WATER														
FLC 65-7T	458	0,73	1	5,3	4,5	3,6	2,7	1,8	0,8									
	547	0,89	2	5,9	5,2	4,2	3,3	2,4	1,3									
	628	1,02	3	6,5	6,0	5,1	4,2	3,2	2,1	0,9								
	702	1,22	4	7,0	6,6	5,9	5,0	4,0	2,9	1,6								
FLC 65-10T	640	1,04	1	7,1	6,3	5,2	4,2	3,2	2,1	1,0								
	761	1,24	2	7,8	7,2	6,2	5,2	4,2	3,0	1,8	0,6							
	874	1,45	3	8,4	8,0	7,1	6,1	5,0	3,8	2,6	1,2							
	1020	1,97	4	9,0	8,7	7,9	6,9	5,9	4,7	3,4	2,0							
FLC 65-12T	892	1,43	1	9,1	8,3	7,1	5,9	4,8	3,6	2,4	1,2							
	1070	1,70	2	10,1	9,6	8,6	7,4	6,2	5,0	3,8	2,4	1,0						
	1229	1,96	3	10,9	10,5	9,6	8,5	7,4	6,2	4,9	3,5	2,0						
	1385	2,32	4	11,8	11,6	10,9	9,9	8,7	7,6	6,3	4,9	3,3	1,6					
FLC 65-16T	1424	2,26	1	13,0	12,4	11,4	10,2	8,8	7,4	5,9	4,3	2,6	0,8					
	1651	2,61	2	14,0	13,6	12,8	11,7	10,5	9,0	7,5	6,0	4,2	2,4					
	1862	2,95	3	14,8	14,6	13,9	13,0	11,8	10,5	9,0	7,4	5,6	3,7	1,5				
	2029	3,37	4	15,3	15,4	14,9	14,0	12,9	11,6	10,2	8,7	6,9	5,0	2,8				
FLC 80-8T	629	1,03	1	4,0	3,9	3,6	3,2	2,8	2,3	1,9	1,4	0,9						
	765	1,23	2	4,9	4,8	4,5	4,1	3,6	3,1	2,6	2,0	1,5	0,9					
	884	1,46	3	5,5	5,4	5,1	4,7	4,2	3,7	3,2	2,6	2,1	1,4					
	1033	1,97	4	6,2	6,1	5,8	5,4	4,9	4,3	3,8	3,2	2,6	1,9	1,2				
FLC 80-10T	889	1,45	1	6,1	5,9	5,5	5,0	4,4	3,9	3,3	2,7	2,1	1,4					
	1086	1,73	2	7,1	7,0	6,6	6,2	5,6	5,1	4,5	3,9	3,3	2,6	1,8				
	1238	1,99	3	7,9	7,8	7,5	7,1	6,5	6,0	5,3	4,7	4,1	3,4	2,7	2,0			
	1390	2,35	4	8,8	8,7	8,5	8,1	7,6	7,0	6,4	5,8	5,1	4,4	3,7	2,9	2,0		
FLC 80-12T	1393	2,21	1	8,8	8,5	8,1	7,6	7,0	6,5	5,8	5,2	4,5	3,8	3,1	2,4	1,7		
	1611	2,54	2	9,7	9,4	9,1	8,7	8,2	7,7	7,0	6,4	5,7	4,9	4,2	3,4	2,6		
	1806	2,88	3	10,5	10,3	10,0	9,6	9,1	8,6	8,0	7,3	6,7	5,9	5,2	4,3	3,5	1,6	
	2005	3,35	4	11,4	11,3	11,0	10,7	10,2	9,7	9,1	8,4	7,7	6,9	6,1	5,3	4,4	2,3	
FLC 80-15T	1647	2,62	1	10,2	9,7	9,2	8,7	8,1	7,4	6,7	6,0	5,3	4,6	4,0	3,3	2,7		
	1959	3,09	2	11,4	11,0	10,7	10,2	9,7	9,1	8,5	7,7	7,0	6,2	5,5	4,7	4,0	2,5	
	2263	3,58	3	12,5	12,2	11,9	11,6	11,1	10,6	10,0	9,3	8,5	7,7	6,9	6,1	5,4	3,8	
	2537	4,15	4	13,5	13,4	13,2	12,9	12,6	12,2	11,6	11,0	10,3	9,5	8,7	7,8	7,0	5,2	3,3

Performances according to standards ISO 9906 - Annex A.

flct-2-2p50-en_b_th

FLCG SERIES (TWIN VERSION, SINGLE-PHASE)
Hydraulic performance table (single operation)

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	1,1	2,2	3,3	5,0	6,9	9,7	12,5	15,3
						m^3/h 0	4,0	8,0	12,0	18,0	25,0	35,0	45,0	55,0
230V 50Hz	W	A	μF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
* FLCG 40-5	123	0,56	6,0	400	1	3,9	2,9	1,0						
	130	0,58			2	4,0	3,2	1,4						
	139	0,61			3	4,0	3,4	1,7						
	147	0,67			4	4,0	3,5	1,8						
FLCG 40-7	273	1,28	8,0	400	1	7,3	4,8	1,3						
	293	1,38			2	7,6	5,9	2,7	0,4					
	303	1,39			3	7,7	6,5	4,1	1,2					
	303	1,37			4	7,8	6,8	4,7	1,7					
FLCG 40-10	498	2,23	30,0	400	1	6,5	5,1	3,2	1,6					
	599	2,65			2	8,0	6,9	5,2	3,1					
	671	3,08			3	8,8	8,0	6,7	5,0	2,0				
	730	3,34			4	9,0	8,4	7,4	6,1	3,6				
FLCG 50-5	245	1,15	16,0	400	1	4,2	3,5	2,3	0,9					
	267	1,25			2	4,7	4,3	3,2	1,7					
	298	1,34			3	4,9	4,6	3,8	2,6	0,2				
	307	1,55			4	4,9	4,7	4,0	2,9	0,4				
FLCG 50-8	459	2,06	25,0	400	1	6,6	5,1	3,4	2,1	0,4				
	548	2,44			2	7,8	6,8	5,0	3,4	1,3				
	606	2,72			3	8,4	7,8	6,5	5,0	2,7				
	633	2,83			4	8,6	8,3	7,3	6,0	3,8	0,7			
FLCG 50-10	497	2,23	30,0	400	1	5,7	4,2	2,9	1,8	0,1				
	595	2,65			2	7,7	6,2	4,5	3,1	1,0				
	702	3,11			3	8,7	7,5	6,0	4,4	2,1				
	774	3,42			4	9,3	8,6	7,5	6,2	4,0	0,8			
FLCG 65-7	489	2,20	30,0	400	1	3,6	3,0	2,4	1,8	0,9				
	592	2,62			2	4,8	4,3	3,6	2,9	1,8	0,5			
	684	3,01			3	5,6	5,1	4,5	3,8	2,6	1,2			
	740	3,25			4	6,1	5,8	5,3	4,8	3,7	2,2			
FLCG 65-10	634	2,82	30,0	400	1	5,6	5,0	4,2	3,3	2,1	0,8			
	746	3,36			2	6,5	6,0	5,2	4,3	3,0	1,5			
	882	3,97			3	7,0	6,8	6,1	5,3	4,0	2,4			
	994	4,68			4	7,4	7,3	6,8	6,1	5,0	3,5	1,0		
FLCG 65-12	812	3,68	40,0	400	1	6,8	5,9	4,7	3,6	2,3	0,9			
	997	4,53			2	8,5	7,8	6,6	5,3	3,5	1,8			
	1208	5,46			3	9,4	9,0	8,1	6,9	5,1	3,0	0,5		
	1389	6,19			4	10,2	10,0	9,4	8,6	7,3	5,6	2,7		
FLCG 80-4	533	2,41	30,0	400	1	3,7	3,5	3,2	3,0	2,5	1,8	0,9		
	569	2,56			2	4,1	4,0	3,8	3,6	3,2	2,6	1,6		
	587	2,66			3	4,2	4,1	4,0	3,8	3,5	3,0	2,0	0,8	
	595	2,85			4	4,3	4,2	4,1	4,0	3,7	3,3	2,4	1,2	
FLCG 80-8	639	2,88	30,0	400	1	3,0	2,9	2,7	2,5	2,1	1,5			
	765	3,42			2	3,8	3,7	3,5	3,2	2,8	2,2	1,1		
	881	3,97			3	4,6	4,5	4,2	3,9	3,5	2,9	1,7		
	973	4,62			4	5,4	5,3	5,0	4,6	4,1	3,4	2,3	1,0	
FLCG 80-10	805	3,60	40,0	400	1	4,3	4,1	3,7	3,2	2,7	2,1	1,1		
	962	4,30			2	5,6	5,3	4,8	4,3	3,6	3,0	2,1	0,9	
	1144	5,08			3	6,6	6,4	5,9	5,4	4,7	4,0	2,9	1,5	
	1263	5,61			4	7,8	7,6	7,2	6,8	6,1	5,3	4,2	2,7	1,0

* Performances according to standards EN 1151-1.

flcgm-2p50S-en_b_th

Performances according to standards ISO 9906 - Annex A.

FLCG SERIES (TWIN VERSION, SINGLE-PHASE)
Hydraulic performance table (parallel operation)

PUMP TYPE	MAXIMUM ABSORBED POWER	MAXIMUM ABSORBED CURRENT	CAPACITOR		SPEED	Q = DELIVERY								
						l/s 0	2,8	4,2	5,6	9,7	13,9	18,8	22,2	27,8
						m^3/h 0	10,0	15,0	20,0	35,0	50,0	67,5	80,0	100,0
230V 50Hz	W*	A*	µF	V		H = TOTAL HEAD METRES COLUMN OF WATER								
** FLCG 40-5	123	0,56	6,0	400	1	3,9	2,3	1,0						
	130	0,58			2	4,0	2,7	1,4						
	139	0,61			3	4,0	2,9	1,6						
	147	0,67			4	4,0	3,0	1,7	0,1					
FLCG 40-7	273	1,28	8,0	400	1	7,3	3,3	1,1	0,2					
	293	1,38			2	7,6	4,9	2,5	0,9					
	303	1,39			3	7,7	5,8	3,9	1,9					
	303	1,37			4	7,8	6,2	4,5	2,4					
FLCG 40-10	498	2,23	30,0	400	1	6,5	4,0	2,6	1,4					
	599	2,65			2	8,0	6,0	4,5	2,9					
	671	3,08			3	8,8	7,4	6,2	4,8	0,3				
	730	3,34			4	9,0	7,9	7,0	5,9	1,9				
FLCG 50-5	245	1,15	16,0	400	1	4,2	3,1	2,2	1,2					
	267	1,25			2	4,7	3,9	3,1	2,1					
	298	1,34			3	4,9	4,3	3,8	3,0					
	307	1,55			4	4,9	4,5	4,0	3,3					
FLCG 50-8	459	2,06	25,0	400	1	6,6	4,4	3,3	2,4					
	548	2,44			2	7,8	6,1	4,9	3,8	0,9				
	606	2,72			3	8,4	7,3	6,4	5,4	2,2				
	633	2,83			4	8,6	8,0	7,2	6,4	3,3				
FLCG 50-10	497	2,23	30,0	400	1	5,7	3,6	2,8	2,1	0,5				
	595	2,65			2	7,7	5,5	4,4	3,4	0,5				
	702	3,11			3	8,7	6,9	5,8	4,7	1,5				
	774	3,42			4	9,3	8,2	7,3	6,5	3,2				
FLCG 65-7	489	2,20	30,0	400	1	3,6	2,6	2,0	1,5					
	592	2,62			2	4,8	3,8	3,1	2,5	0,5				
	684	3,01			3	5,6	4,6	4,0	3,3	1,2				
	740	3,25			4	6,1	5,4	5,0	4,4	2,2				
FLCG 65-10	634	2,82	30,0	400	1	5,6	4,8	4,3	3,7	2,2	0,8			
	746	3,36			2	6,5	5,8	5,3	4,7	3,1	1,5			
	882	3,97			3	7,0	6,6	6,2	5,7	4,1	2,4	0,5		
	994	4,68			4	7,4	7,2	6,9	6,5	5,1	3,5	1,3		
FLCG 65-12	812	3,68	40,0	400	1	6,8	5,6	4,8	4,1	2,3	0,7			
	997	4,53			2	8,5	7,5	6,7	5,9	3,5	1,6			
	1208	5,46			3	9,4	8,7	8,1	7,4	5,1	2,8	0,6		
	1389	6,19			4	10,2	9,9	9,5	9,0	7,3	5,4	2,8	0,9	
FLCG 80-4	533	2,41	30,0	400	1	3,7	3,4	3,2	3,0	2,3	1,5	0,6		
	569	2,56			2	4,1	3,9	3,8	3,7	3,1	2,3	1,3	0,4	
	587	2,66			3	4,2	4,1	4,0	3,8	3,4	2,7	1,6	0,8	
	595	2,85			4	4,3	4,2	4,1	4,0	3,6	3,0	2,1	1,2	
FLCG 80-8	639	2,88	30,0	400	1	3,0	2,8	2,7	2,5	2,0	1,2			
	765	3,42			2	3,8	3,6	3,5	3,3	2,7	2,0	0,9		
	881	3,97			3	4,6	4,4	4,2	4,0	3,4	2,6	1,4	0,7	
	973	4,62			4	5,4	5,2	5,0	4,7	3,9	3,1	2,0	1,0	
FLCG 80-10	805	3,60	40,0	400	1	4,3	3,9	3,6	3,3	2,5	1,8	0,8	0,6	
	962	4,30			2	5,6	5,1	4,8	4,4	3,4	2,7	1,7	0,9	
	1144	5,08			3	6,6	6,2	5,9	5,5	4,5	3,7	2,5	1,5	1,2
	1263	5,61			4	7,8	7,4	7,1	6,8	5,9	5,0	3,8	2,7	0,8

* Electric data refer to single motor.

flcgm-2p50P-en_b_th

** Performances according to standards EN 1151-1.

Performances according to standards ISO 9906 - Annex A.

FLCG40..T - FLCG50..T SERIES (TWIN VERSION, THREE-PHASE)
Hydraulic performance table
(single operation)

PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	SPEED	Q = DELIVERY															
				l/s 0	0,6	1,1	1,7	2,2	2,8	3,3	3,9	4,4	5,0	5,6	6,1	6,7	7,2	7,8
				m^3/h 0	2	4	6	8	10	12	14	16	18	20	22	24	26	28
				H = TOTAL HEAD METRES COLUMN OF WATER														
* FLCG 40-5T	100	0,17	1	3,6	3,1	2,5	1,6	0,7										
	114	0,20	2	3,7	3,4	2,8	2,0	1,0										
	129	0,25	3	3,9	3,6	3,2	2,4	1,4	0,2									
	143	0,33	4	4,0	3,8	3,4	2,7	1,6	0,4									
FLCG 40-7T	183	0,30	1	6,4	5,2	4,2	2,9	1,6	0,4									
	215	0,36	2	6,8	5,8	4,9	3,7	2,4	1,0									
	249	0,44	3	7,2	6,4	5,7	4,6	3,2	1,8	0,1								
	265	0,57	4	7,4	6,8	6,2	5,3	4,0	2,4	0,7								
FLCG 40-10T	468	0,78	1	7,3	6,8	6,1	5,3	4,5	3,6	2,8	2,0	1,2	0,5					
	575	0,93	2	7,9	7,5	7,0	6,3	5,6	4,9	4,0	3,2	2,3	1,5	0,7				
	666	1,06	3	8,5	8,2	7,8	7,3	6,6	6,0	5,2	4,4	3,6	2,7	1,8	0,9			
	731	1,22	4	8,9	8,7	8,3	7,9	7,4	6,8	6,1	5,4	4,6	3,7	2,8	1,9	0,9		
FLCG 50-5T	224	0,44	1	4,3	4,0	3,5	2,9	2,4	1,8	1,1	0,3							
	266	0,51	2	4,6	4,4	4,1	3,6	3,1	2,5	1,8	1,0	0,2						
	308	0,62	3	4,9	4,7	4,5	4,1	3,7	3,1	2,4	1,7	0,9						
	335	0,78	4	5,1	4,9	4,7	4,4	4,0	3,5	2,9	2,2	1,4	0,5					
FLCG 50-8T	440	0,71	1	7,0	6,7	6,1	5,4	4,7	4,0	3,3	2,6	2,0	1,2					
	514	0,83	2	7,7	7,5	7,0	6,4	5,7	5,1	4,4	3,7	3,0	2,2	1,4				
	579	0,94	3	8,3	8,2	7,8	7,3	6,7	6,1	5,5	4,8	4,0	3,2	2,4	1,5			
	626	1,07	4	8,7	8,6	8,4	7,9	7,4	6,9	6,2	5,6	4,9	4,1	3,3	2,4	1,4		
FLCG 50-10T	479	0,78	1	7,3	6,7	6,0	5,3	4,7	4,0	3,4	2,7	2,0	1,3	0,5				
	581	0,98	2	8,1	7,7	7,1	6,6	6,0	5,3	4,6	3,9	3,2	2,4	1,5	0,7			
	674	1,09	3	8,8	8,5	8,0	7,4	6,8	6,2	5,6	4,9	4,2	3,4	2,5	1,5	0,6		
	767	1,31	4	9,6	9,4	9,0	8,5	8,0	7,4	6,8	6,2	5,4	4,6	3,7	2,7	1,6	0,6	

* Performances according to standards EN 1151-1.

flcgt-1-2p50S-en_b_th

Performances according to standards ISO 9906 - Annex A.

FLCG65..T - FLCG80..T SERIES (TWIN VERSION, THREE-PHASE)
Hydraulic performance table
(single operation)

PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	SPEED	Q = DELIVERY														
				l/s 0	1,4	2,8	4,2	5,6	6,9	8,3	9,7	11,1	12,5	13,9	15,3	16,7	19,4	22,2
				m^3/h 0	5	10	15	20	25	30	35	40	45	50	55	60	70	80
				H = TOTAL HEAD METRES COLUMN OF WATER														
FLCG 65-7T	475	0,77	1	4,7	4,0	3,1	2,2	1,4										
	578	0,93	2	5,3	4,6	3,7	2,8	1,9										
	668	1,08	3	5,9	5,4	4,6	3,7	2,7	1,7	0,5								
	807	1,39	4	6,3	5,9	5,0	4,1	3,1	2,0	0,8								
FLCG 65-10T	673	1,08	1	6,3	5,8	4,6	3,6	2,6	1,6	0,5								
	803	1,29	2	7,2	6,7	5,8	4,7	3,6	2,4	1,2								
	930	1,52	3	7,8	7,4	6,6	5,5	4,4	3,2	2,0	0,7							
	1079	2,02	4	8,5	8,3	7,4	6,4	5,3	4,1	2,8	1,4							
FLCG 65-12T	863	1,42	1	7,9	7,1	6,0	4,9	3,9	2,8	1,6	0,5							
	1044	1,68	2	8,8	8,1	7,2	6,2	5,1	4,0	2,8	1,5							
	1205	1,95	3	9,4	8,9	8,1	7,1	6,1	5,0	3,8	2,4	1,0						
	1353	2,30	4	10,1	9,7	9,0	8,1	7,2	6,1	4,9	3,5	2,1						
FLCG 65-16T	1511	2,40	1	11,6	11,0	9,8	8,6	7,3	6,0	4,7	3,1	1,4						
	1760	2,80	2	12,7	12,3	11,3	10,1	8,9	7,6	6,3	4,7	2,9	1,1					
	2002	3,16	3	13,5	13,4	12,5	11,4	10,2	9,0	7,7	6,2	4,5	2,5					
	2152	3,60	4	14,4	14,3	13,6	12,6	11,5	10,3	9,0	7,6	5,9	3,9	1,8				
FLCG 80-4T	396	0,74	1	3,7	3,5	3,2	2,9	2,6	2,1	1,7	1,2	0,6						
	439	0,86	2	4,0	3,8	3,6	3,3	3,0	2,6	2,1	1,6	1,0						
	497	1,04	3	4,2	4,0	3,8	3,6	3,3	2,9	2,4	1,9	1,3						
	530	1,32	4	4,3	4,2	4,1	3,9	3,6	3,2	2,7	2,2	1,6	0,9					
FLCG 80-8T	649	1,05	1	4,2	3,9	3,5	3,0	2,6	2,2	1,7	1,1	0,6						
	774	1,26	2	5,0	4,7	4,2	3,8	3,3	2,8	2,3	1,7	1,1						
	888	1,48	3	5,7	5,4	4,9	4,3	3,8	3,4	2,8	2,3	1,6	0,9					
	1043	1,98	4	6,4	6,2	5,7	5,1	4,6	4,0	3,5	2,9	2,3	1,5					
FLCG 80-10T	839	1,34	1	5,7	5,2	4,8	4,4	4,0	3,5	3,0	2,4	1,8	1,2					
	987	1,58	2	6,7	6,2	5,7	5,3	4,9	4,4	3,8	3,2	2,6	1,9	1,2				
	1109	1,79	3	7,4	6,9	6,5	6,1	5,6	5,1	4,6	3,9	3,3	2,6	1,8				
	1259	2,12	4	8,4	7,8	7,4	7,0	6,5	6,0	5,4	4,8	4,1	3,3	2,5	1,6			
FLCG 80-12T	1380	2,15	1	8,6	8,4	7,9	7,2	6,6	6,0	5,4	4,8	4,2	3,3	2,5	1,6			
	1553	2,46	2	9,9	9,5	9,0	8,4	7,8	7,2	6,6	5,9	5,2	4,4	3,5	2,6	1,8		
	1739	2,77	3	10,8	10,3	9,8	9,3	8,8	8,2	7,5	6,8	6,1	5,3	4,4	3,5	2,6		
	1931	3,24	4	11,6	11,2	10,7	10,3	9,8	9,2	8,5	7,8	7,0	6,2	5,3	4,3	3,3		
FLCG 80-15T	1780	2,84	1	10,2	9,5	9,0	8,4	7,8	7,2	6,5	5,8	5,0	4,3	3,5	2,7	1,8		
	2117	3,36	2	11,5	11,0	10,5	10,0	9,4	8,8	8,2	7,5	6,7	5,9	5,1	4,2	3,3		
	2463	3,89	3	12,7	12,2	11,8	11,3	10,8	10,3	9,7	9,0	8,3	7,5	6,7	5,8	4,8	2,8	
	2735	4,92	4	13,9	13,5	13,1	12,7	12,2	11,7	11,2	10,6	10,0	9,2	8,4	7,5	6,6	4,4	2,1

Performances according to standards ISO 9906 - Annex A.

flcgt-2-2p50S-en_b_th

FLCG40..T - FLCG50..T SERIES (TWIN VERSION, THREE-PHASE)
Hydraulic performance table (parallel operation)

PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W*	MAXIMUM ABSORBED CURRENT A*	SPEED	Q = DELIVERY														
				l/s 0	0,6	1,1	1,7	2,2	2,8	3,9	5,0	6,1	7,2	8,3	9,4	10,6	11,7	12,8
				m^3/h 0	2	4	6	8	10	14	18	22	26	30	34	38	42	46
				H = TOTAL HEAD METRES COLUMN OF WATER														
** FLCG 40-5T	100	0,17	1	3,6	3,3	3,1	2,7	2,3	1,8	0,8								
	114	0,20	2	3,7	3,6	3,4	3,1	2,7	2,2	1,2								
	129	0,25	3	3,9	3,8	3,6	3,4	3,0	2,6	1,5	0,3							
	143	0,33	4	4,0	3,9	3,8	3,6	3,3	2,9	1,8	0,5							
FLCG 40-7T	183	0,30	1	6,4	5,7	5,1	4,6	4,0	3,3	1,8	0,5							
	215	0,36	2	6,8	6,2	5,8	5,3	4,7	4,1	2,6	1,1							
	249	0,44	3	7,2	6,7	6,3	6,0	5,5	4,9	3,4	1,8	0,1						
	265	0,57	4	7,4	7,0	6,8	6,5	6,1	5,6	4,2	2,5	0,7						
FLCG 40-10T	468	0,78	1	7,3	7,0	6,6	6,2	5,7	5,2	4,1	3,1	2,1	1,1	0,2				
	575	0,93	2	7,9	7,7	7,4	7,0	6,7	6,3	5,3	4,3	3,3	2,2	1,2				
	666	1,06	3	8,5	8,3	8,1	7,8	7,5	7,2	6,4	5,5	4,5	3,4	2,3	1,2	0,2		
	731	1,22	4	8,9	8,8	8,6	8,4	8,1	7,8	7,2	6,4	5,5	4,5	3,4	2,2	1,0		
FLCG 50-5T	224	0,44	1	4,3	4,2	4,0	3,7	3,4	3,1	2,5	1,8	1,1	0,3					
	266	0,51	2	4,6	4,5	4,4	4,2	4,0	3,8	3,2	2,6	1,8	1,0	0,1				
	308	0,62	3	4,9	4,8	4,7	4,6	4,4	4,3	3,8	3,2	2,5	1,7	0,8				
	335	0,78	4	5,1	5,0	4,9	4,8	4,7	4,5	4,1	3,6	2,9	2,1	1,3	0,3			
FLCG 50-8T	440	0,71	1	7,0	6,9	6,6	6,4	6,0	5,7	5,0	4,3	3,6	2,9	2,2	1,5	0,7		
	514	0,83	2	7,7	7,6	7,4	7,2	7,0	6,7	6,0	5,3	4,6	3,9	3,2	2,4	1,6	0,8	
	579	0,94	3	8,3	8,3	8,2	8,0	7,8	7,5	7,0	6,4	5,7	5,0	4,2	3,5	2,6	1,7	0,8
	626	1,07	4	8,7	8,7	8,6	8,5	8,3	8,1	7,7	7,1	6,5	5,8	5,1	4,3	3,5	2,6	1,6
FLCG 50-10T	479	0,78	1	7,3	7,0	6,6	6,2	5,9	5,5	4,7	4,0	3,3	2,5	1,7	0,9			
	581	0,98	2	8,1	7,9	7,6	7,3	7,0	6,7	6,0	5,3	4,5	3,7	2,8	1,9	0,9		
	674	1,09	3	8,8	8,7	8,5	8,2	7,9	7,6	6,9	6,2	5,5	4,7	3,9	2,9	1,9	0,8	
	767	1,31	4	9,6	9,5	9,3	9,1	8,9	8,6	8,0	7,4	6,7	6,0	5,1	4,1	3,0	1,9	0,7

* Electric data refer to single motor.

flcgt-1-2p50P-en_b_th

** Performances according to standards EN 1151-1.

Performances according to standards ISO 9906 - Annex A.

FLCG65..T - FLCG80..T SERIES (TWIN VERSION, THREE-PHASE)
Hydraulic performance table (parallel operation)

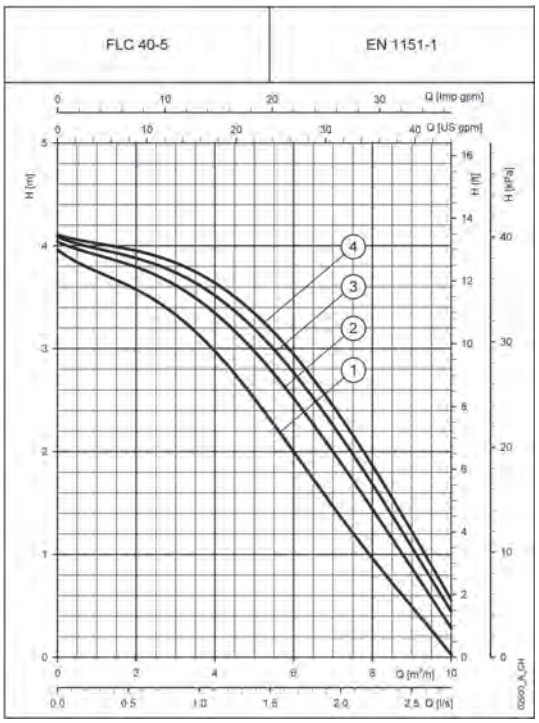
PUMP TYPE 400V 50Hz	MAXIMUM ABSORBED POWER W*	MAXIMUM ABSORBED CURRENT A*	SPEED	Q = DELIVERY														
				l/s 0	1,4	2,8	4,2	5,6	6,9	8,3	11,1	13,9	16,7	19,4	25,0	30,6	36,1	41,7
				m^3/h 0	5	10	15	20	25	30	40	50	60	70	90	110	130	150
				H = TOTAL HEAD METRES COLUMN OF WATER														
FLCG 65-7T	475	0,77	1	4,7	4,4	4,0	3,5	3,1	2,6	2,2	1,3							
	578	0,93	2	5,3	5,0	4,6	4,2	3,7	3,2	2,7	1,8							
	668	1,08	3	5,9	5,7	5,4	5,0	4,6	4,1	3,6	2,6	1,5	0,4					
	807	1,39	4	6,3	6,2	5,9	5,5	5,0	4,5	4,0	3,0	1,9	0,6					
FLCG 65-10T	673	1,08	1	6,3	6,2	5,7	5,1	4,5	3,9	3,4	2,4	1,3	0,2					
	803	1,29	2	7,2	7,1	6,7	6,2	5,6	5,1	4,5	3,3	2,1	0,9					
	930	1,52	3	7,8	7,7	7,4	7,0	6,5	5,9	5,3	4,1	2,9	1,6	0,2				
	1079	2,02	4	8,5	8,5	8,2	7,8	7,3	6,8	6,2	5,1	3,8	2,4	0,9				
FLCG 65-12T	863	1,42	1	7,9	7,5	7,0	6,5	5,9	5,4	4,8	3,8	2,6	1,4	0,3				
	1044	1,68	2	8,8	8,5	8,1	7,6	7,2	6,7	6,1	5,0	3,9	2,6	1,3				
	1205	1,95	3	9,4	9,2	8,9	8,5	8,0	7,6	7,1	6,0	4,8	3,6	2,2				
	1353	2,30	4	10,1	10,0	9,7	9,4	9,0	8,5	8,1	7,1	5,9	4,7	3,3				
FLCG 65-16T	1511	2,40	1	11,6	11,4	10,9	10,4	9,8	9,1	8,5	7,2	5,9	4,4	2,8				
	1760	2,80	2	12,7	12,6	12,3	11,8	11,3	10,7	10,0	8,8	7,5	6,0	4,4	0,6			
	2002	3,16	3	13,5	13,6	13,4	13,0	12,5	11,9	11,3	10,1	8,8	7,5	5,9	2,0			
	2152	3,60	4	14,4	14,5	14,3	14,0	13,6	13,1	12,5	11,4	10,1	8,8	7,3	3,5			
FLCG 80-4T	396	0,74	1	3,7	3,6	3,5	3,3	3,2	3,0	2,9	2,4	2,0	1,4	0,9				
	439	0,86	2	4,0	3,8	3,7	3,6	3,5	3,4	3,3	2,9	2,4	1,8	1,2				
	497	1,04	3	4,2	4,1	4,0	3,9	3,8	3,7	3,6	3,2	2,7	2,2	1,5				
	530	1,32	4	4,3	4,2	4,2	4,1	4,0	3,9	3,8	3,4	3,0	2,4	1,9	0,2			
FLCG 80-8T	649	1,05	1	4,2	4,1	3,9	3,6	3,4	3,1	2,9	2,4	1,9	1,3	0,6				
	774	1,26	2	5,0	4,9	4,7	4,4	4,1	3,9	3,6	3,1	2,6	1,9	1,2				
	888	1,48	3	5,7	5,6	5,4	5,1	4,8	4,5	4,2	3,6	3,1	2,5	1,7	0,4			
	1043	1,98	4	6,4	6,3	6,1	5,9	5,6	5,3	4,9	4,3	3,7	3,1	2,4	0,8			
FLCG 80-10T	839	1,34	1	5,7	5,3	5,1	4,8	4,5	4,2	3,9	3,2	2,5	1,7	0,7				
	987	1,58	2	6,7	6,3	6,0	5,7	5,4	5,2	4,8	4,1	3,3	2,4	1,4				
	1109	1,79	3	7,4	7,1	6,8	6,5	6,2	5,9	5,5	4,8	4,0	3,1	2,1				
	1259	2,12	4	8,4	8,0	7,6	7,4	7,1	6,8	6,5	5,7	4,8	3,9	2,8				
FLCG 80-12T	1380	2,15	1	8,6	8,6	8,4	8,1	7,8	7,5	7,1	6,4	5,8	5,2	4,5	2,8	1,2		
	1553	2,46	2	9,9	9,7	9,4	9,2	8,9	8,6	8,3	7,7	7,0	6,3	5,6	3,9	2,0		
	1739	2,77	3	10,8	10,5	10,3	10,0	9,7	9,5	9,2	8,6	8,0	7,3	6,5	4,8	2,8	0,8	
	1931	3,24	4	11,6	11,4	11,2	10,9	10,7	10,4	10,2	9,6	9,0	8,3	7,5	5,7	3,6	1,4	
FLCG 80-15T	1780	2,84	1	10,2	9,8	9,5	9,2	8,9	8,6	8,3	7,6	6,8	6,0	5,2	3,5	1,5		
	2117	3,36	2	11,5	11,2	10,9	10,7	10,4	10,1	9,8	9,2	8,5	7,7	6,9	5,1	3,1	0,9	
	2463	3,89	3	12,7	12,4	12,2	11,9	11,7	11,4	11,2	10,6	9,9	9,2	8,5	6,7	4,6	2,3	
	2735	4,92	4	13,9	13,7	13,4	13,2	13,0	12,8	12,5	12,0	11,5	10,8	10,1	8,4	6,3	3,9	1,3

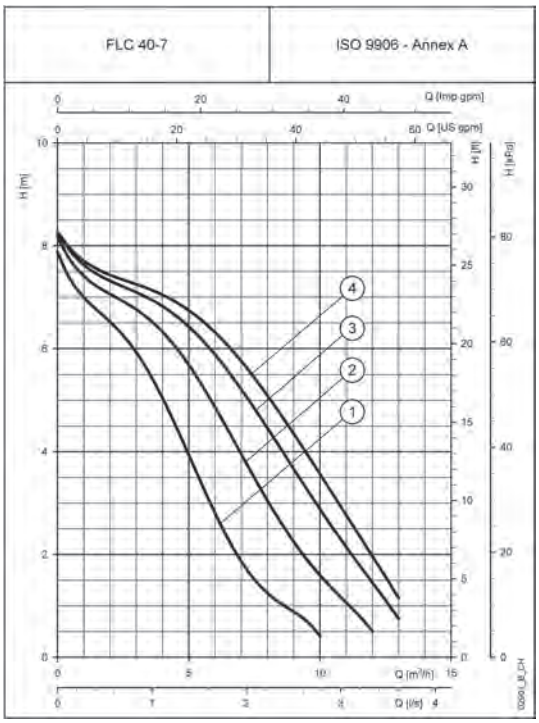
* Electric data refer to single motor.

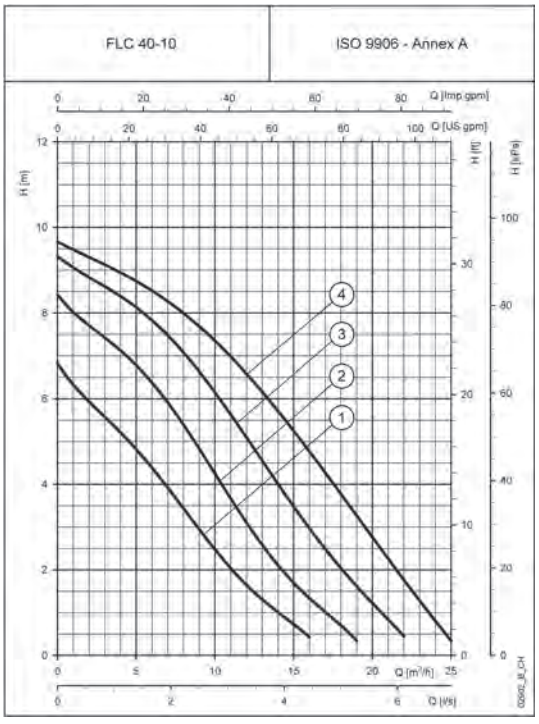
flcgt-2-2p50P-en_b_th

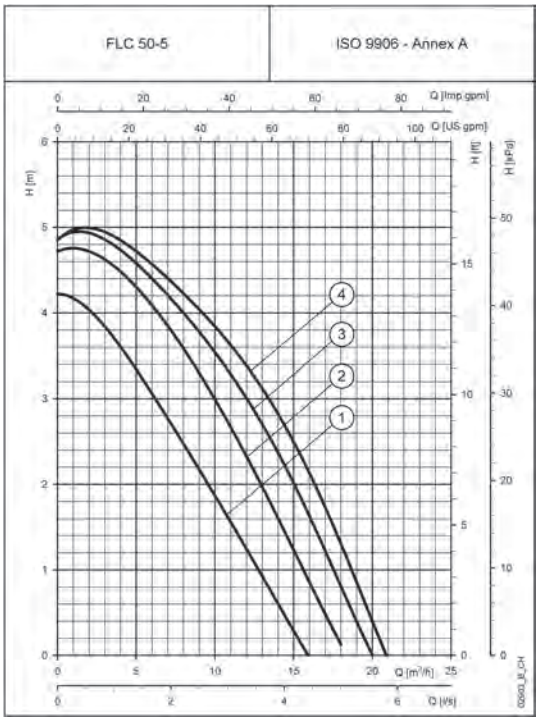
Performances according to standards ISO 9906 - Annex A.

FLC SERIES
Single-phase operating characteristics



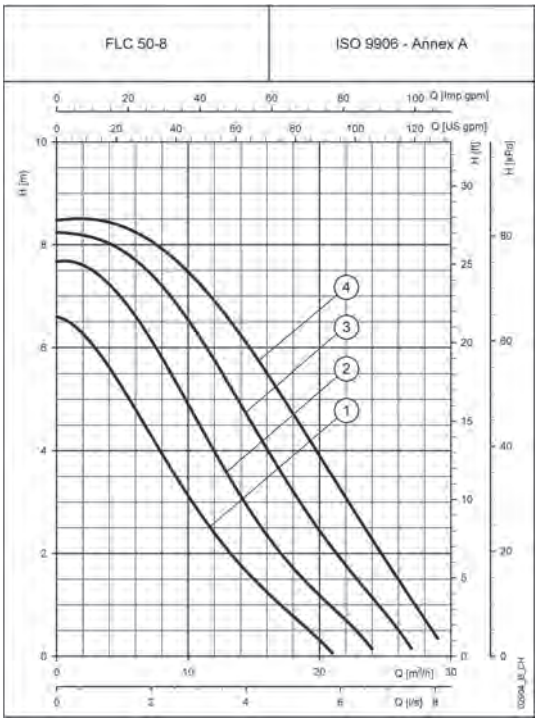


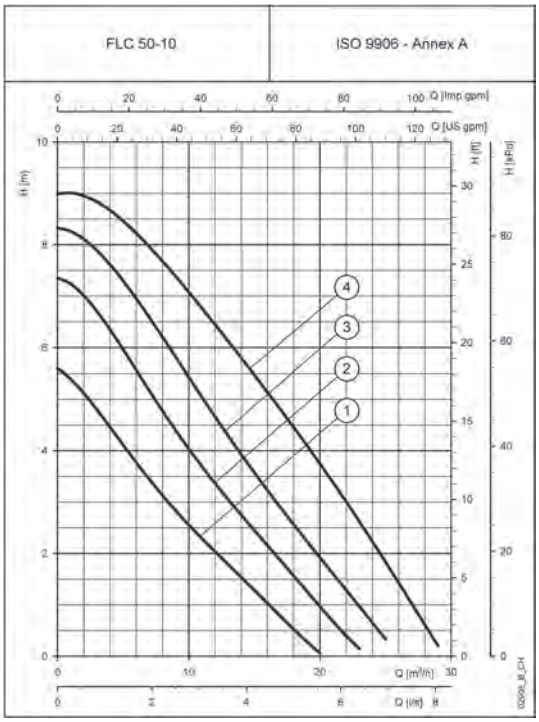


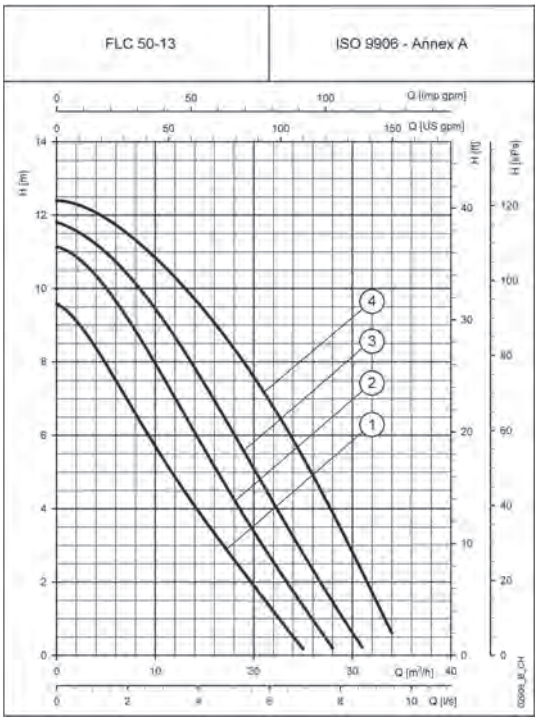


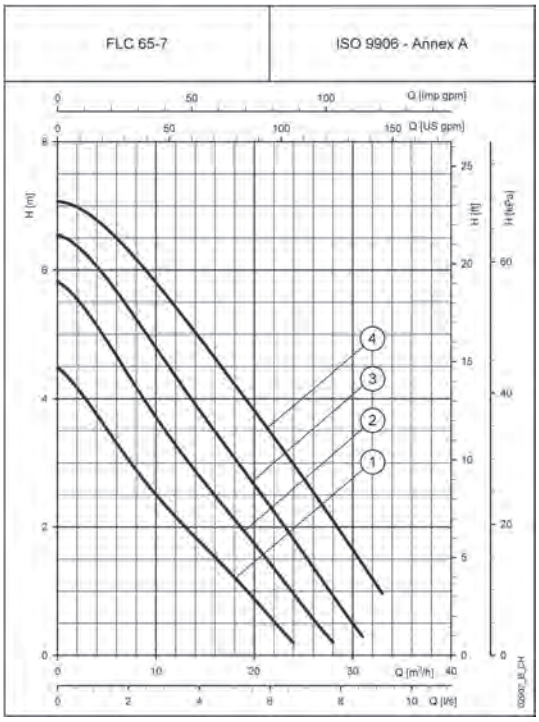
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLC SERIES
Single-phase operating characteristics



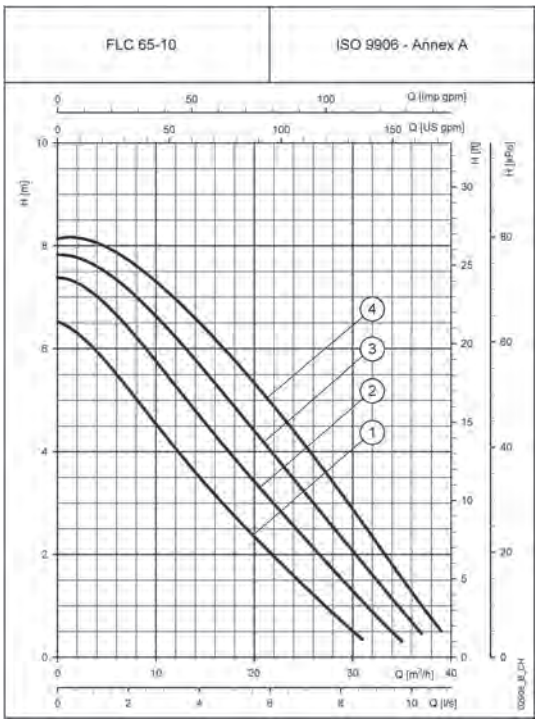


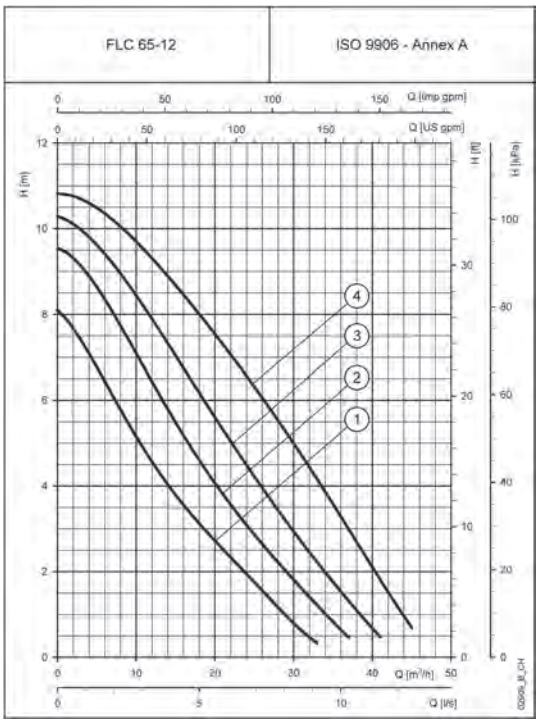


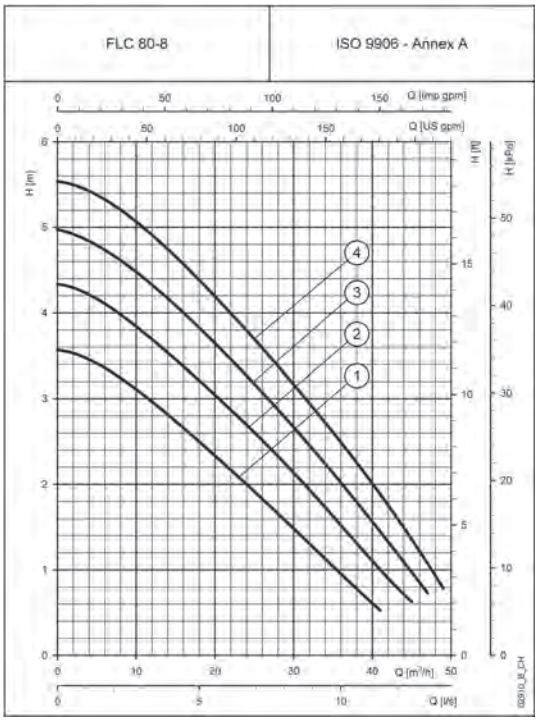


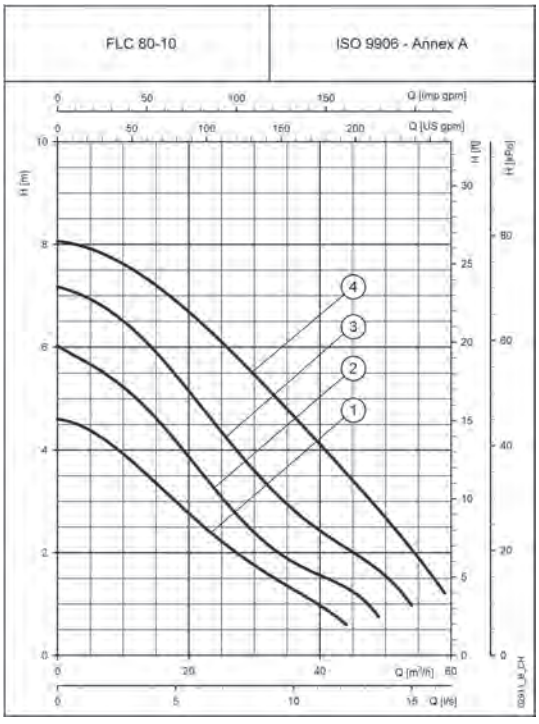
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLC SERIES
Single-phase operating characteristics



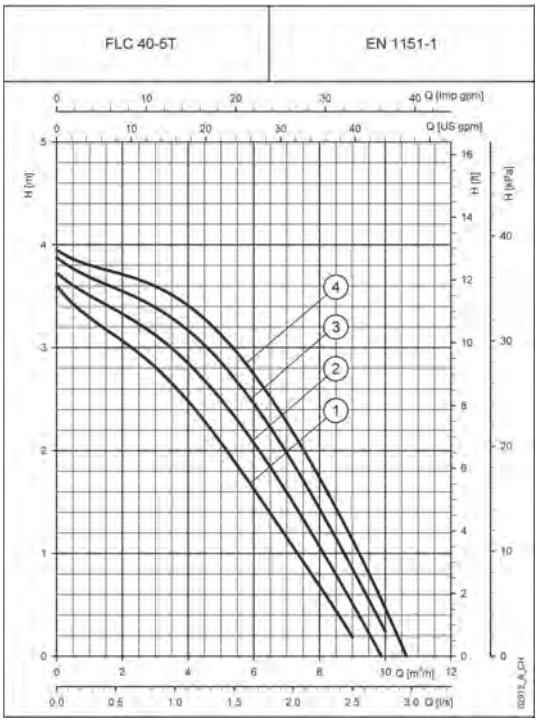


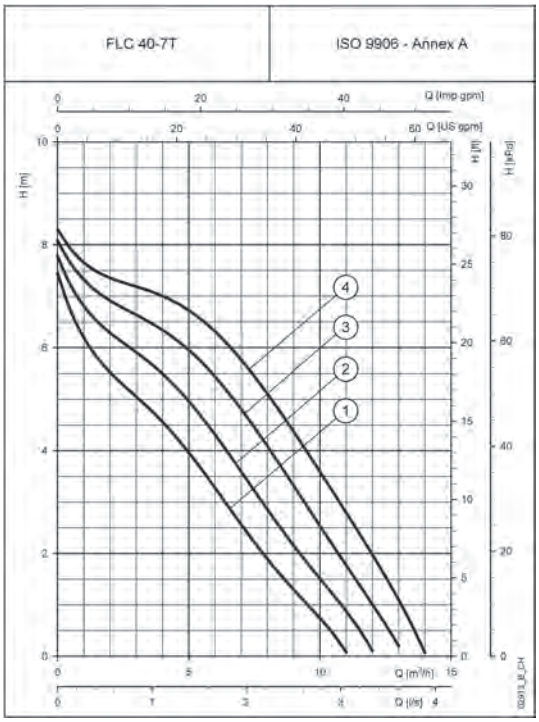


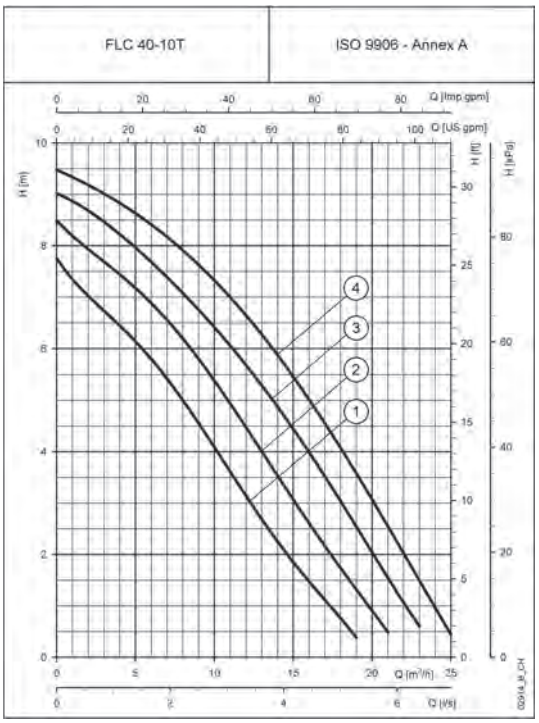


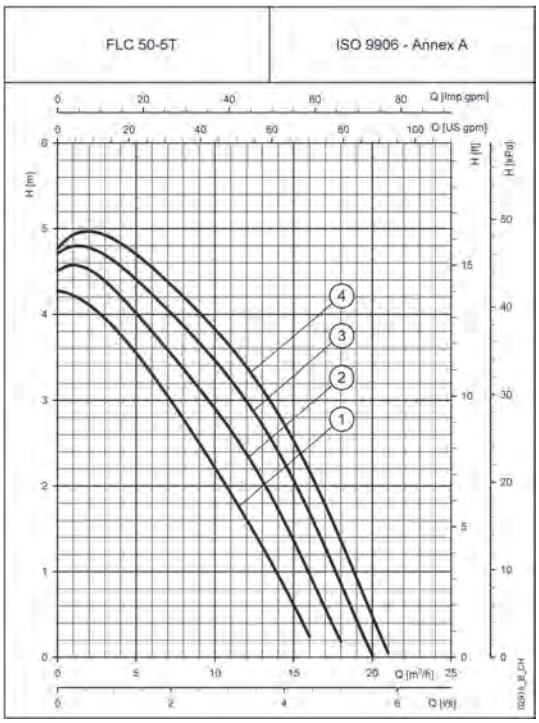
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLC..T SERIES
Three-phase operating characteristics



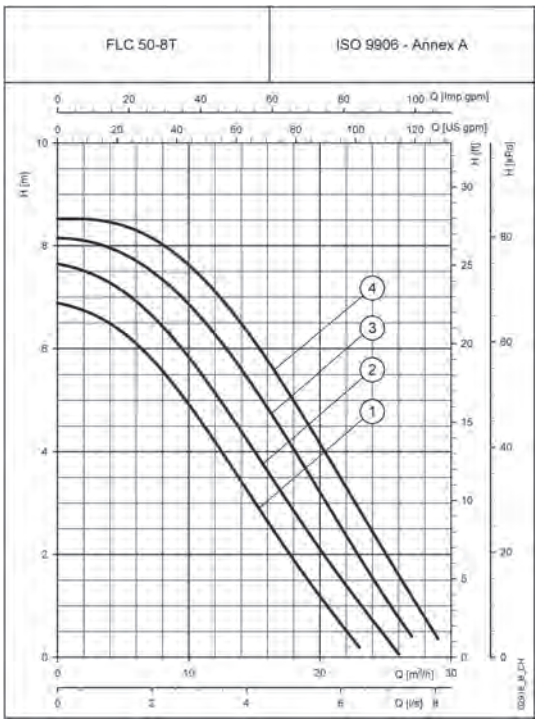


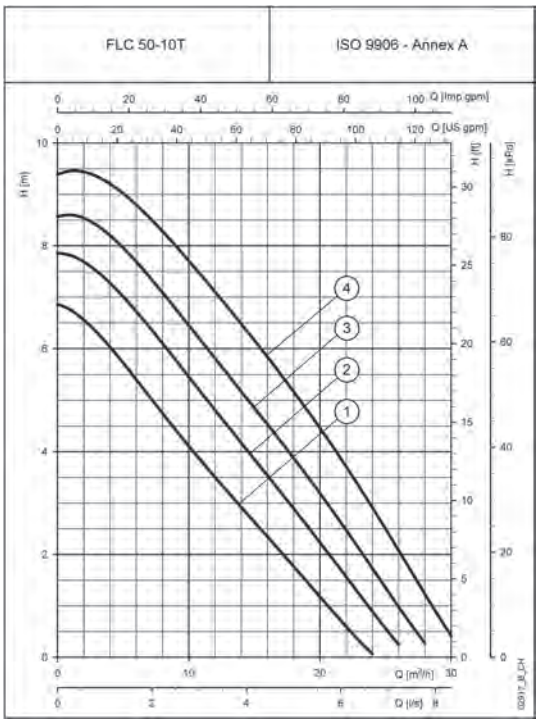


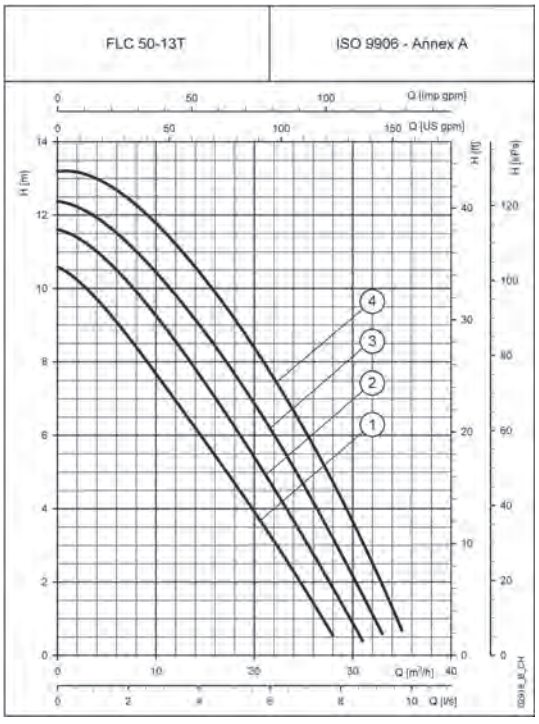


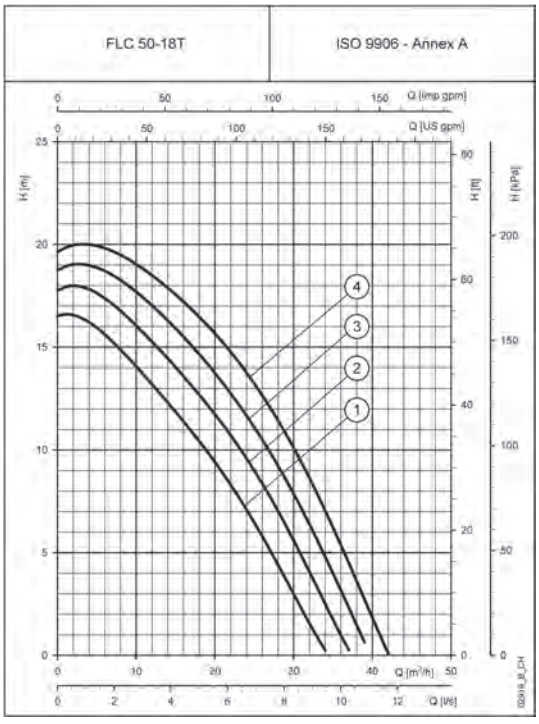
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLC..T SERIES
Three-phase operating characteristics



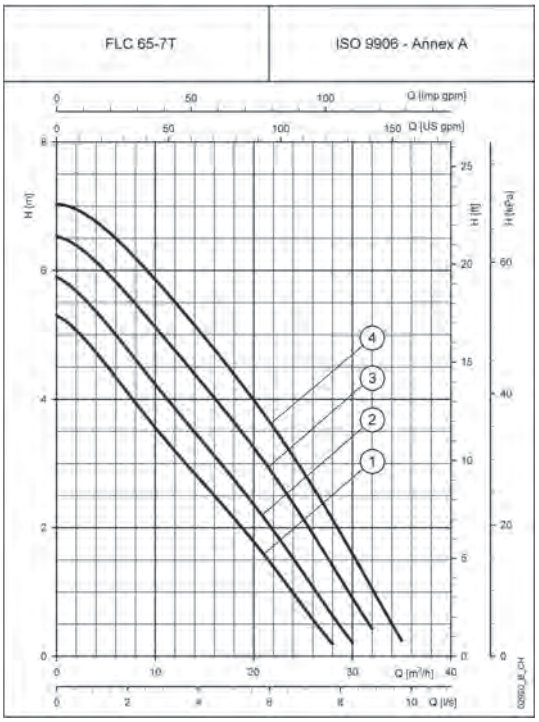


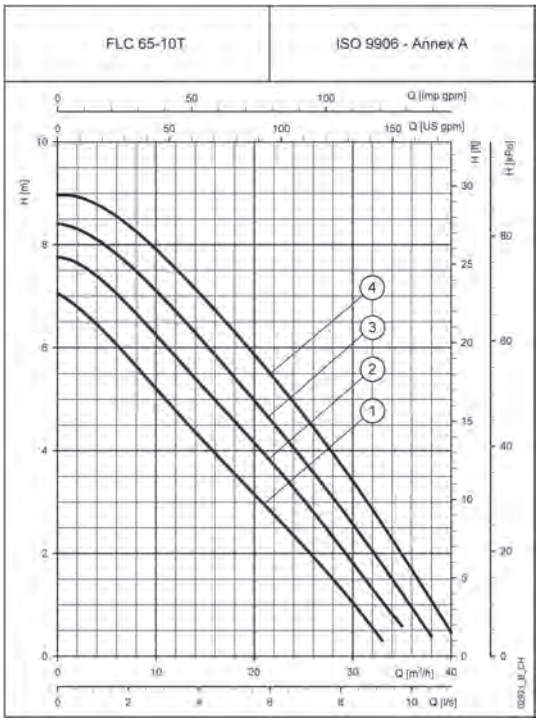


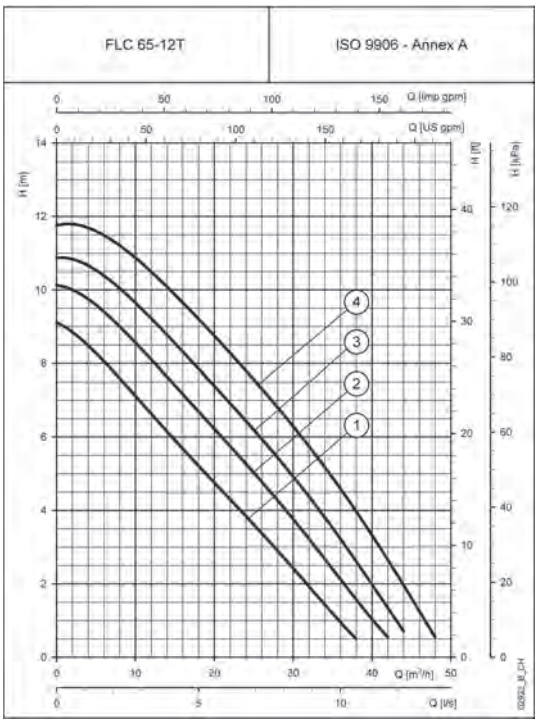


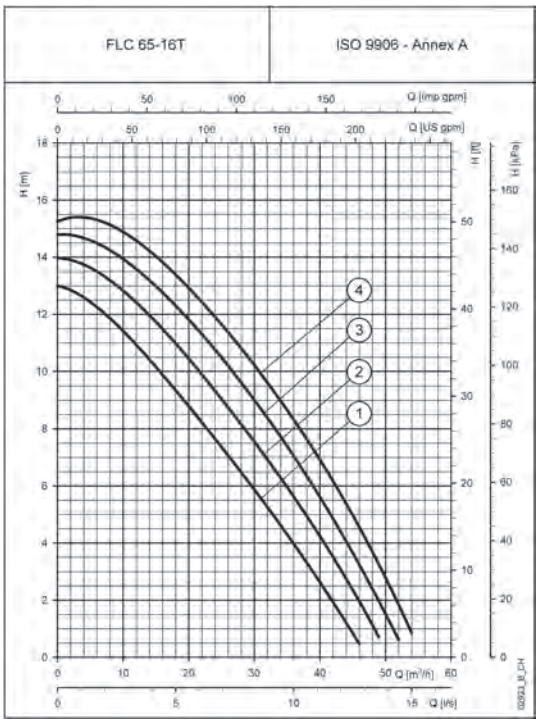
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLC..T SERIES
Three-phase operating characteristics



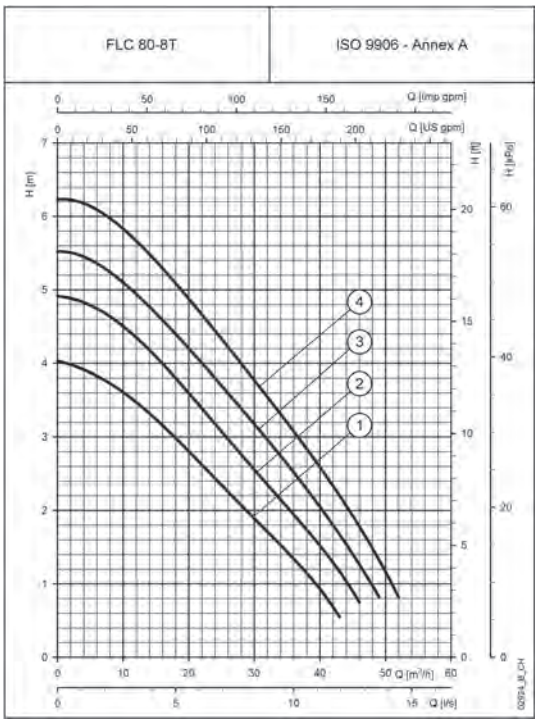


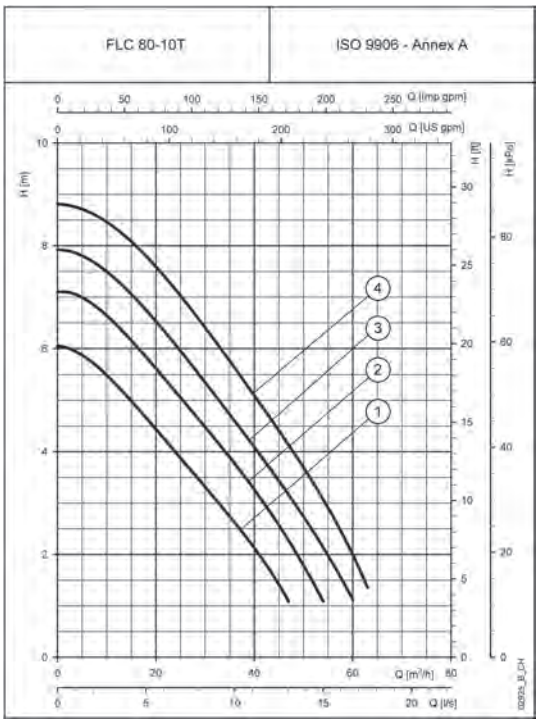


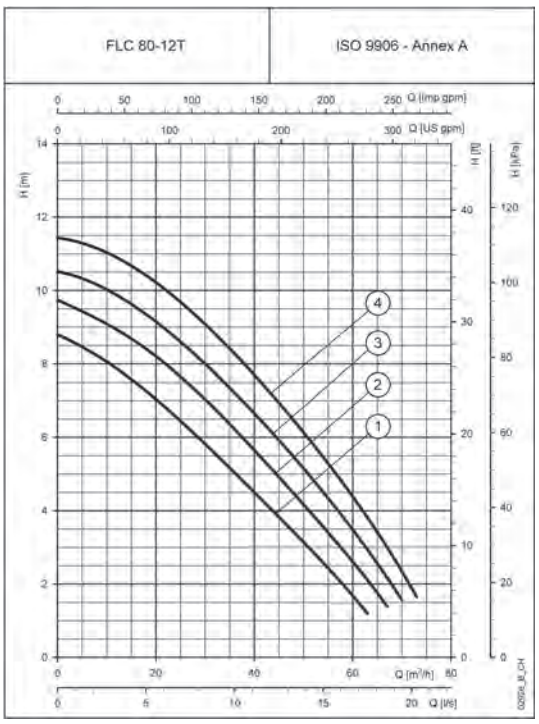


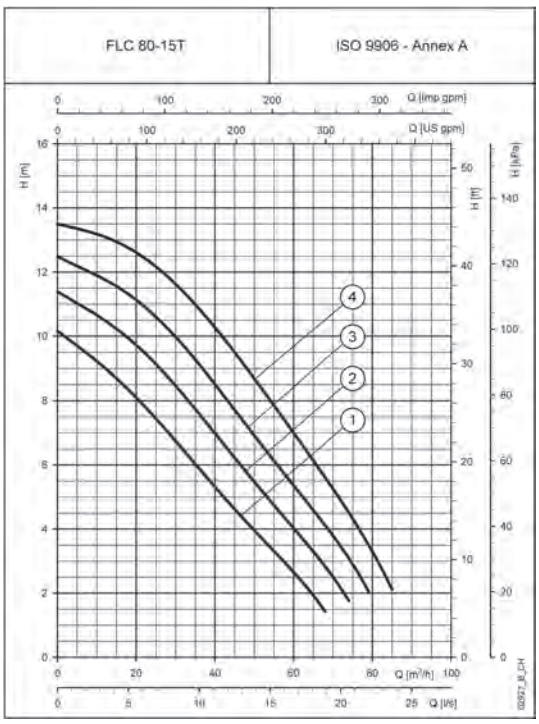
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3
and kinematic viscosity $\nu = 1$ mm^2/s.

FLC..T SERIES
Three-phase operating characteristics



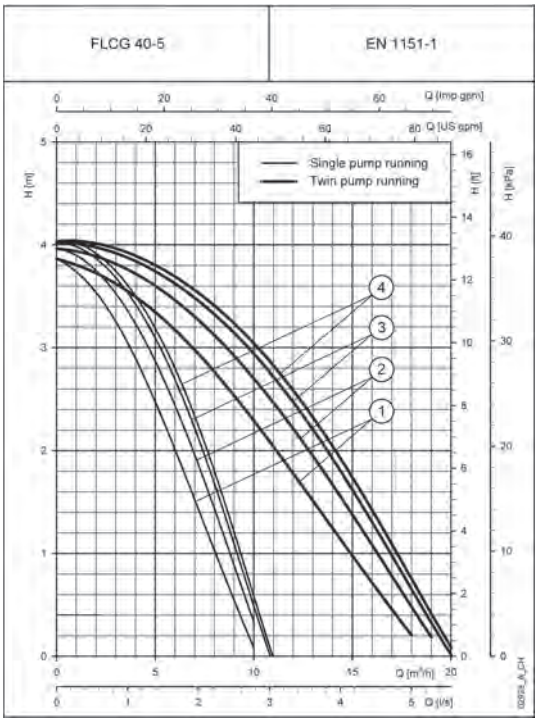


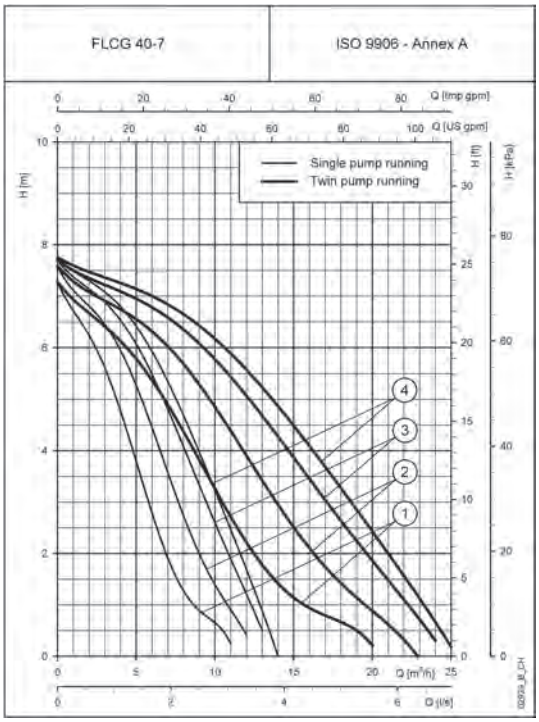


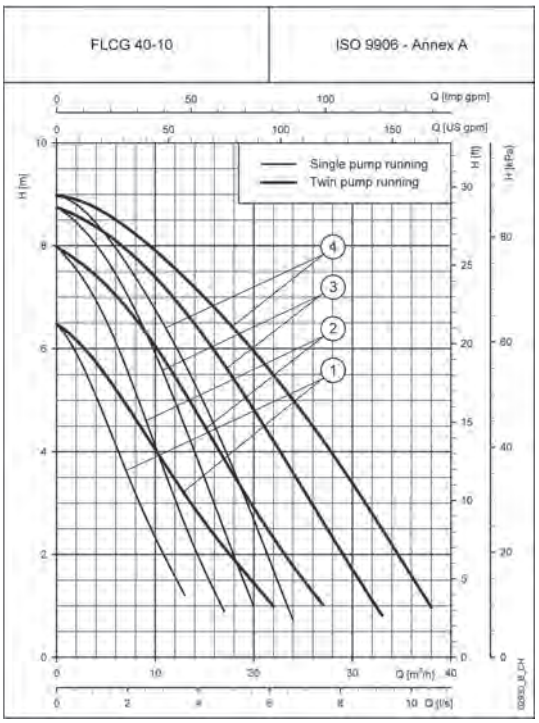


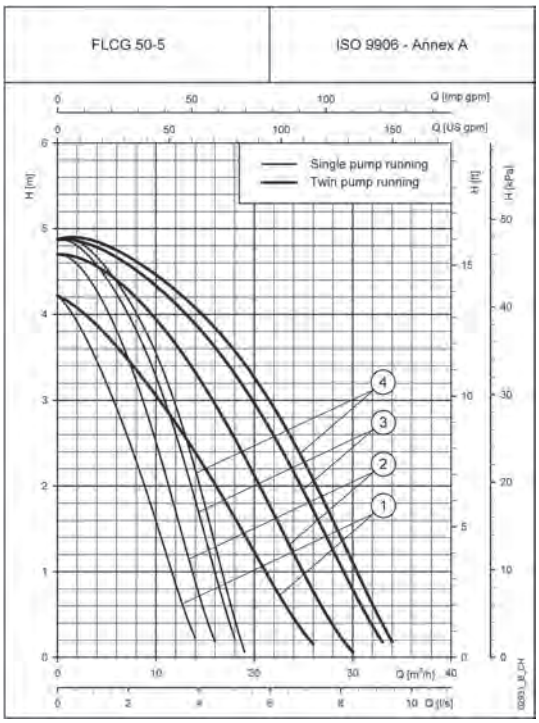
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLCG SERIES
Single-phase operating characteristics



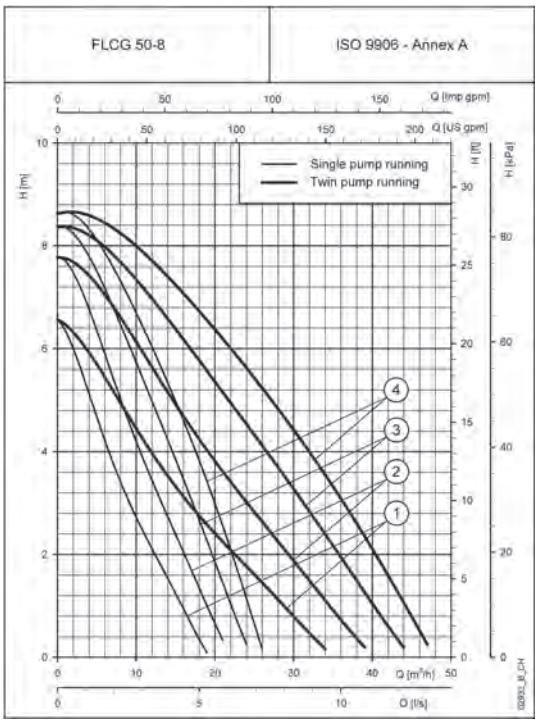


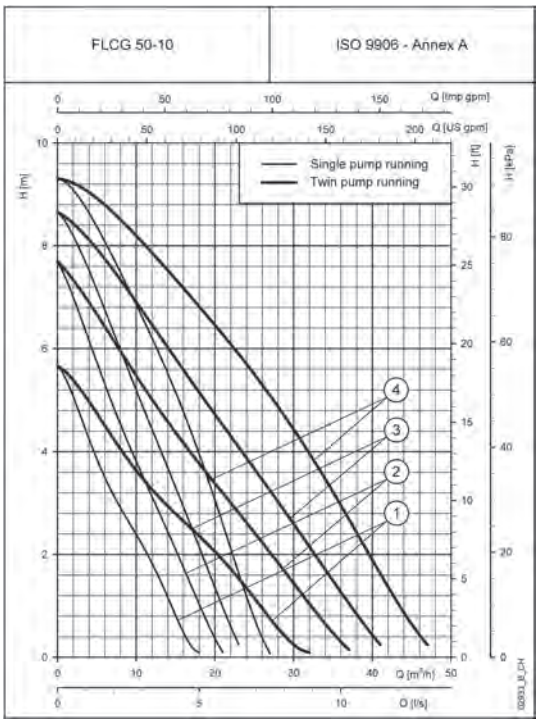


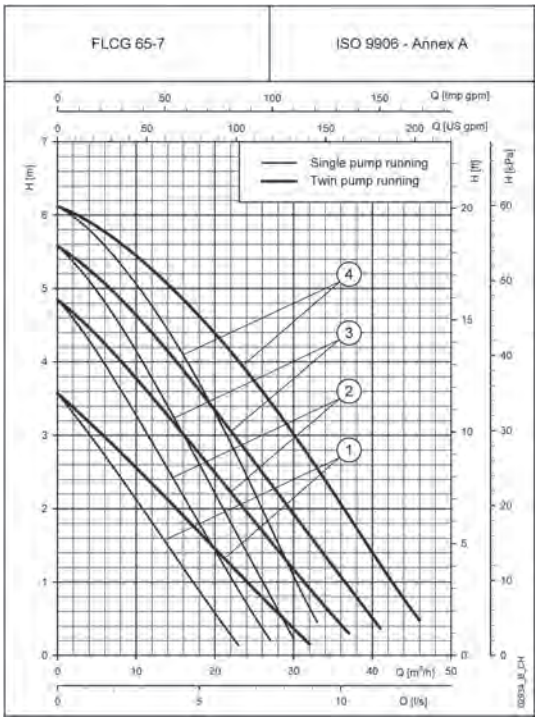


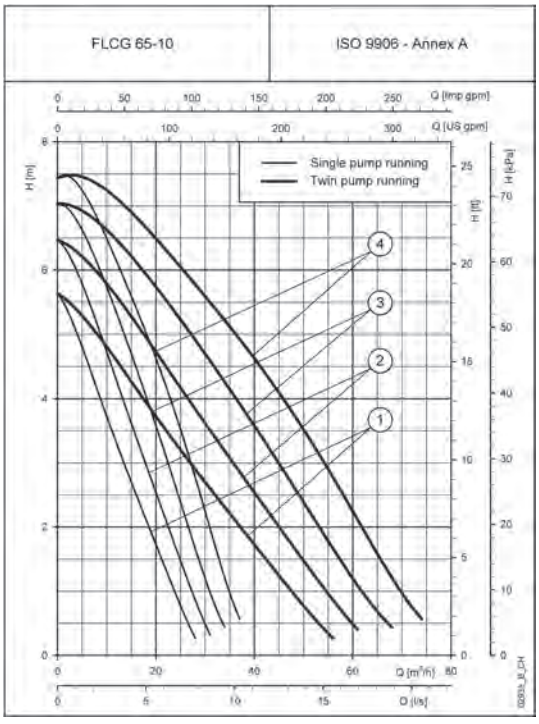
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and kinematic viscosity ν = 1 mm^2/s.

FLCG SERIES
Single-phase operating characteristics



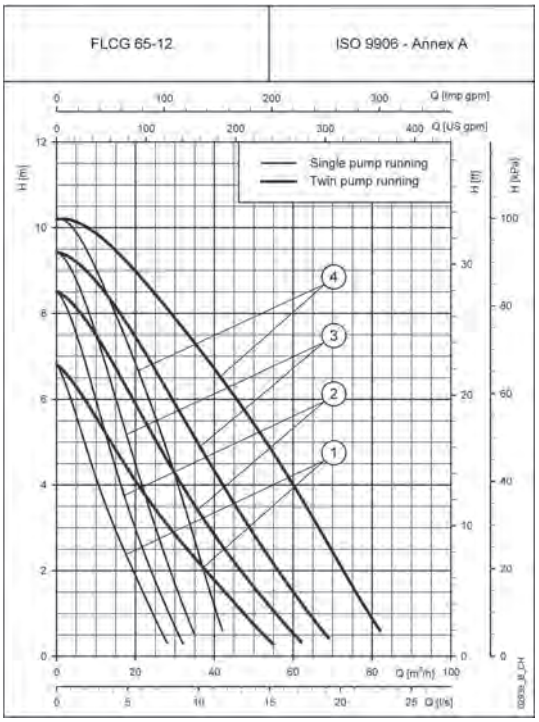


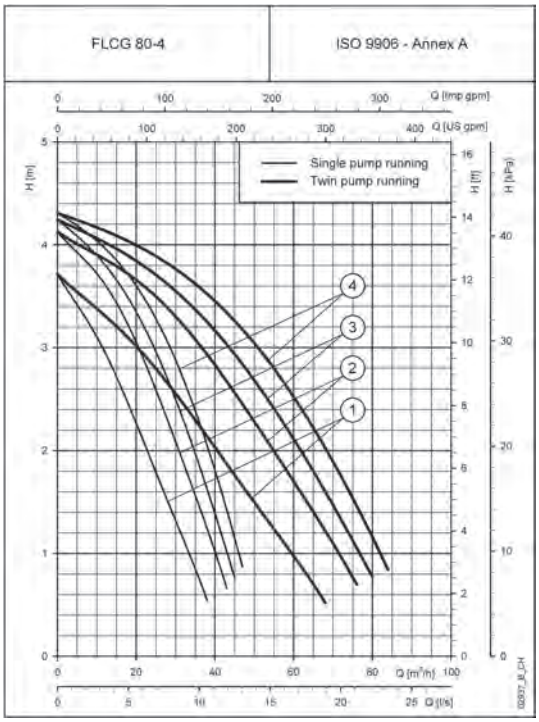


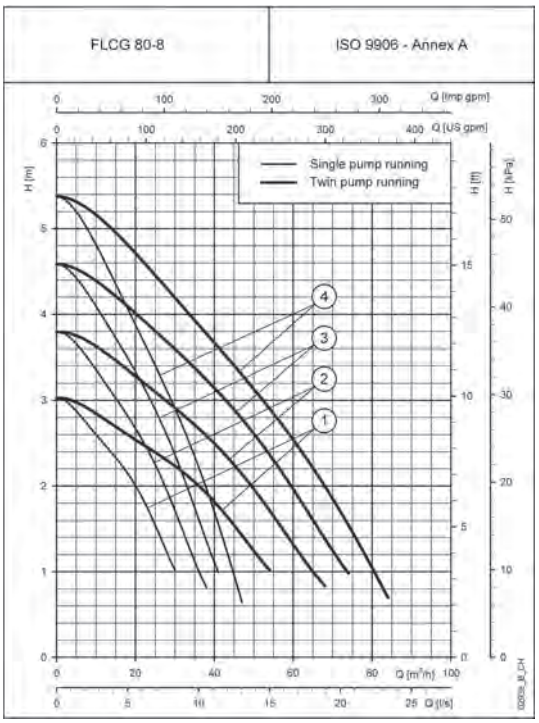


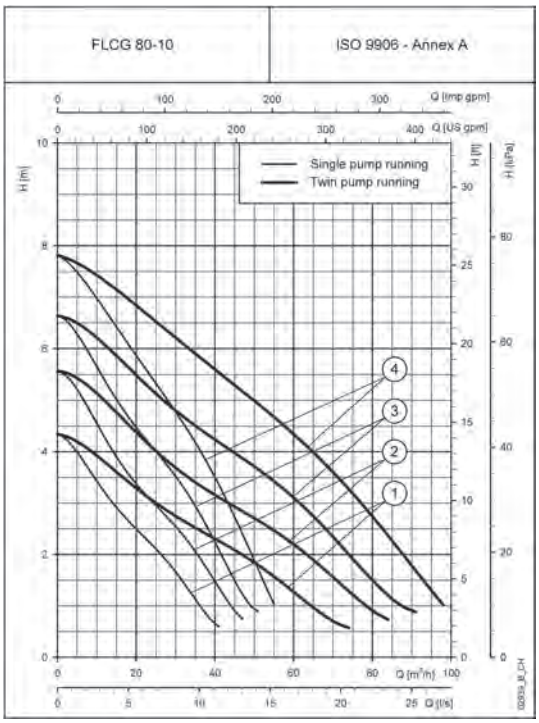
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FLCG SERIES
Single-phase operating characteristics



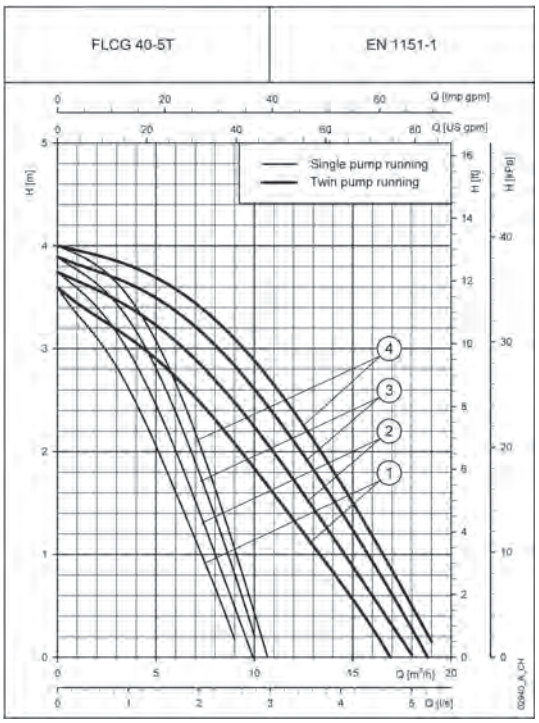


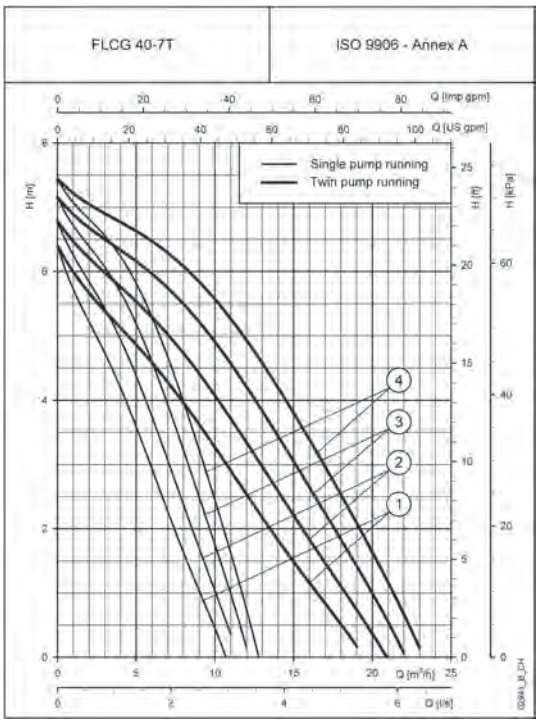


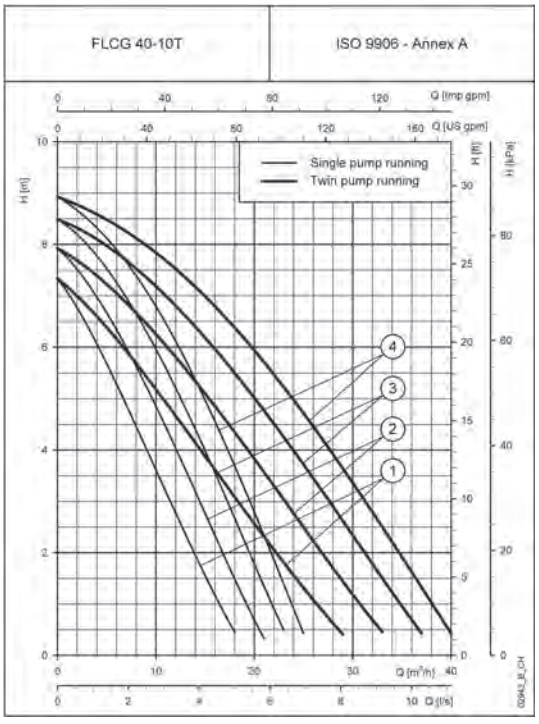


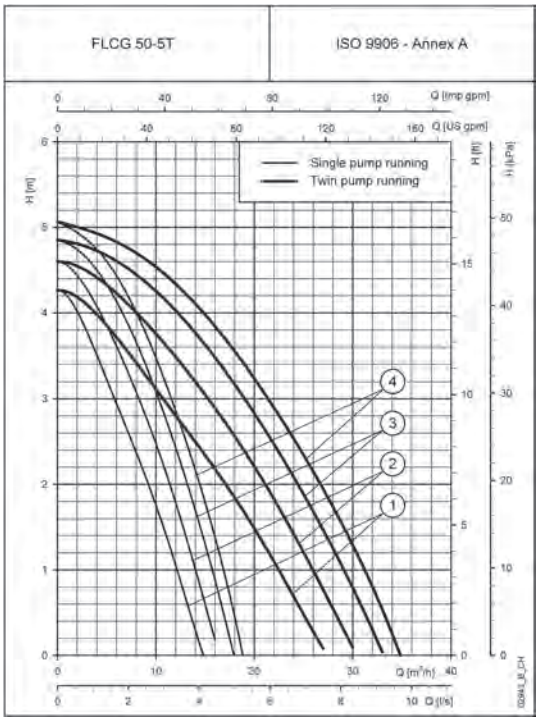
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FLCG..T SERIES
Three-phase operating characteristics



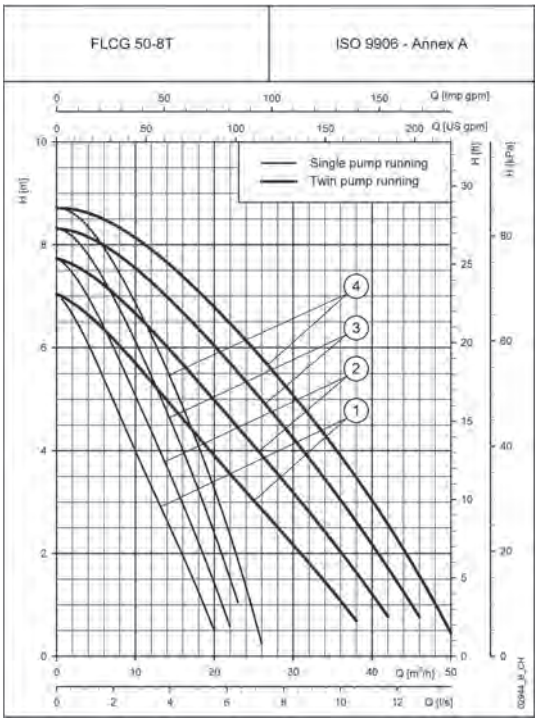


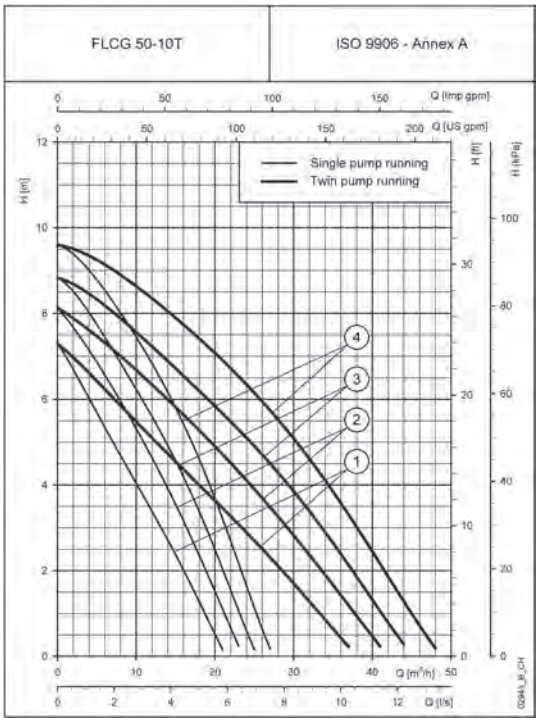


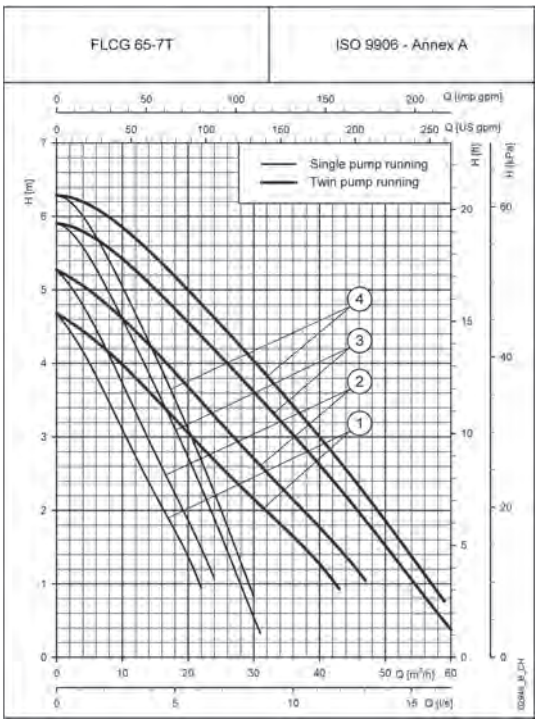


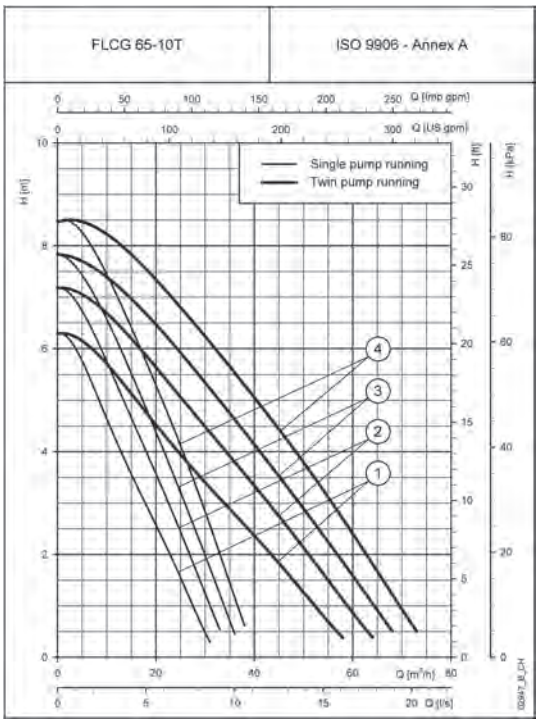
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FLCG..T SERIES
Three-phase operating characteristics



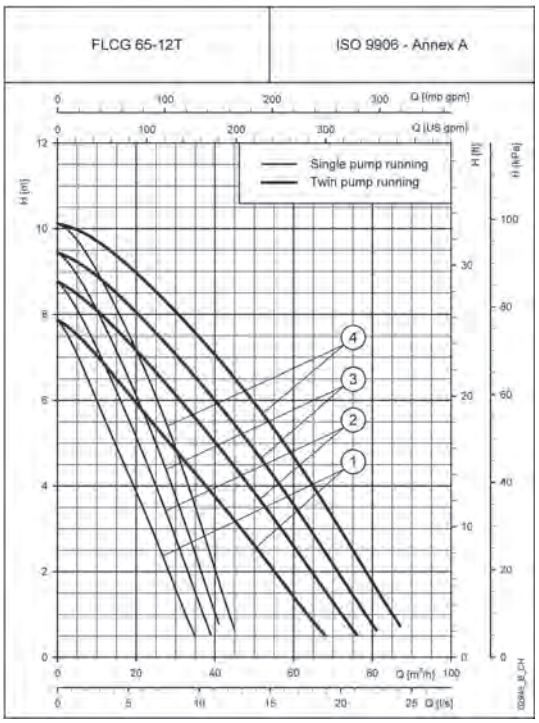


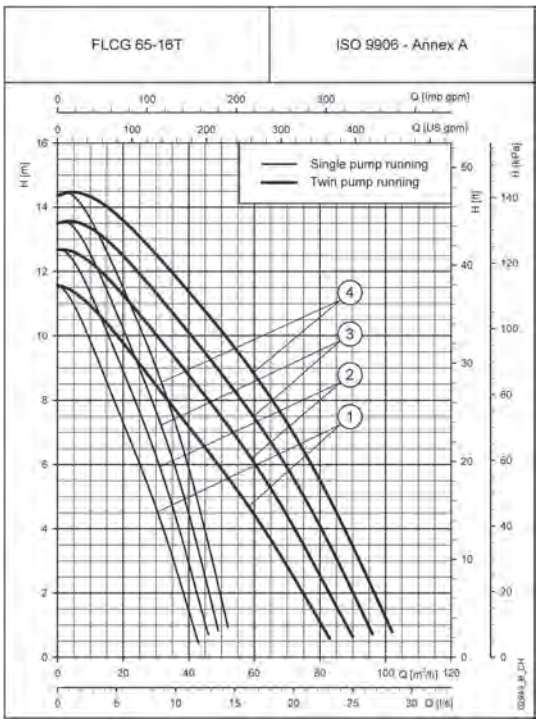


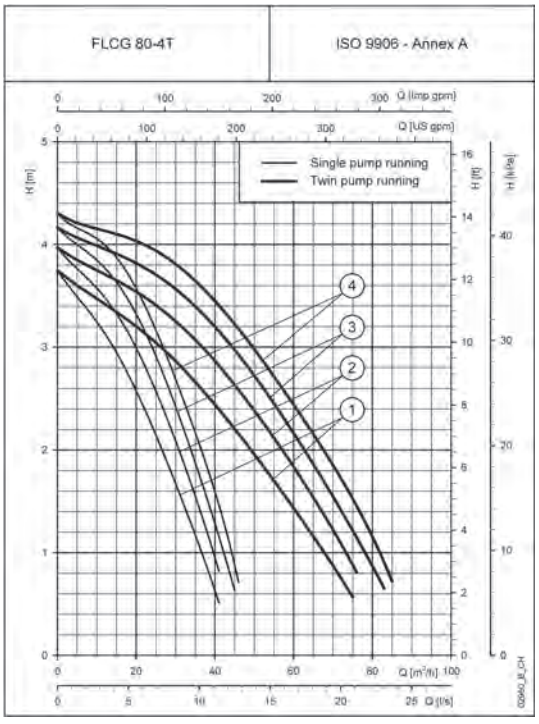


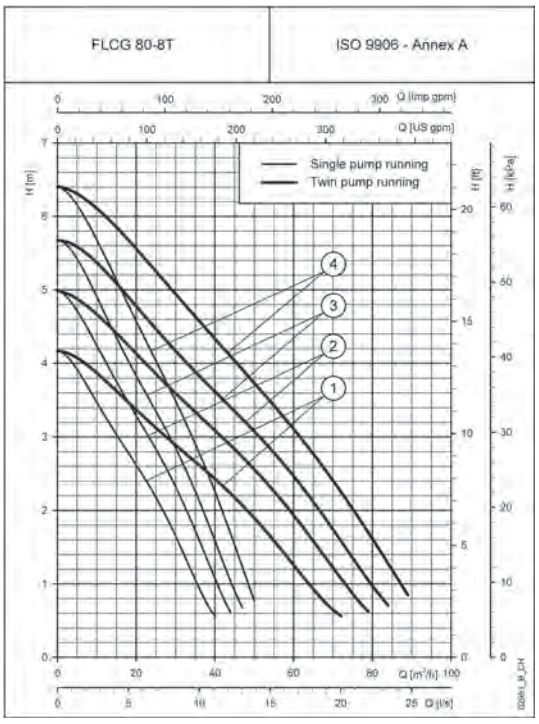
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FLCG..T SERIES
Three-phase operating characteristics



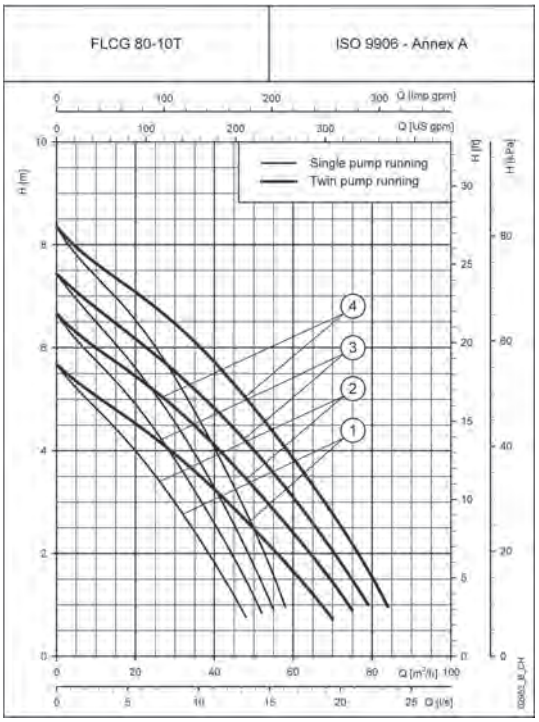


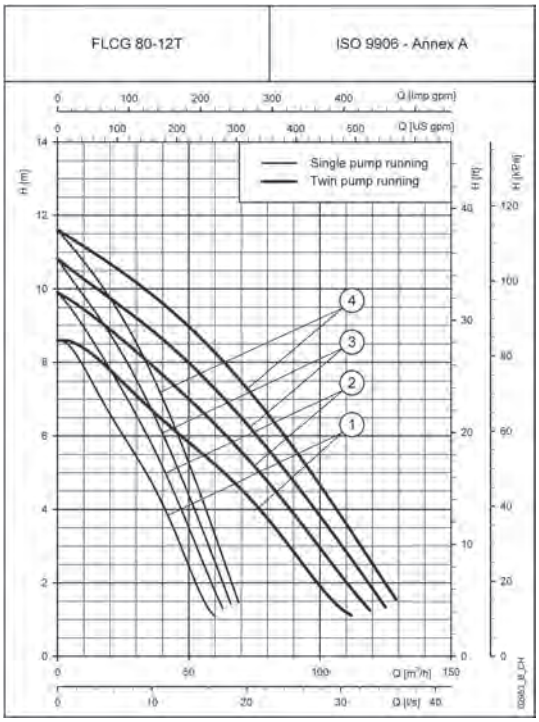


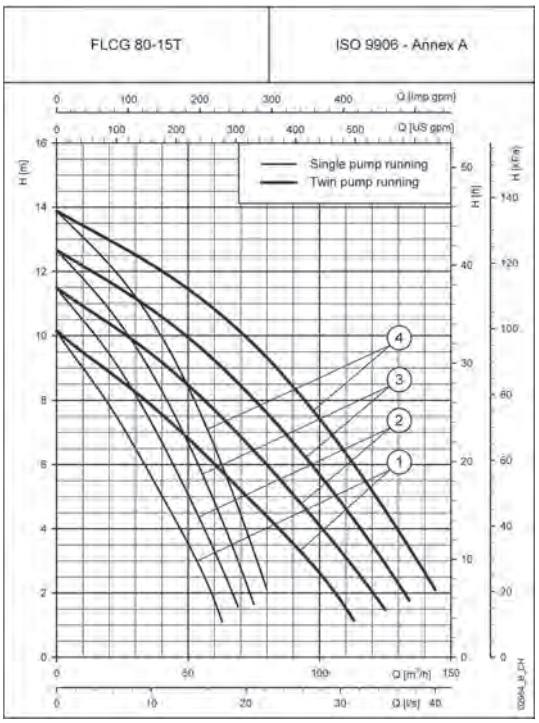


These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

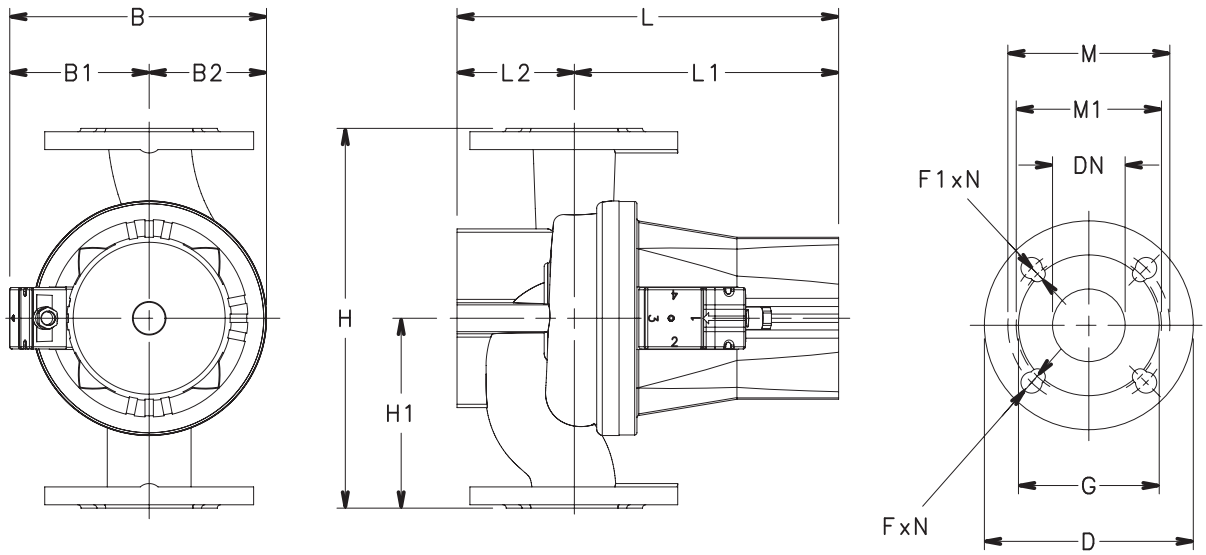
FLCG..T SERIES
Three-phase operating characteristics







These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.



Pump dimensions flanges

DN	DIMENSIONS (mm) ø D	ø G	ø M	ø M1	HOLES ø F	ø F1	N°	PN
40	150	90	110	100	19	14	4	6 / 10
50	165	102	125	110	19	14	4	6 / 10
65	187	126	145	130	19	14	4	6 / 10

DN	DIMENSIONS (mm) ø D	ø G	ø M	HOLES ø F	N°	PN
80	200	140	160	19	8	10

flc-flcg-flangep-en_a_td

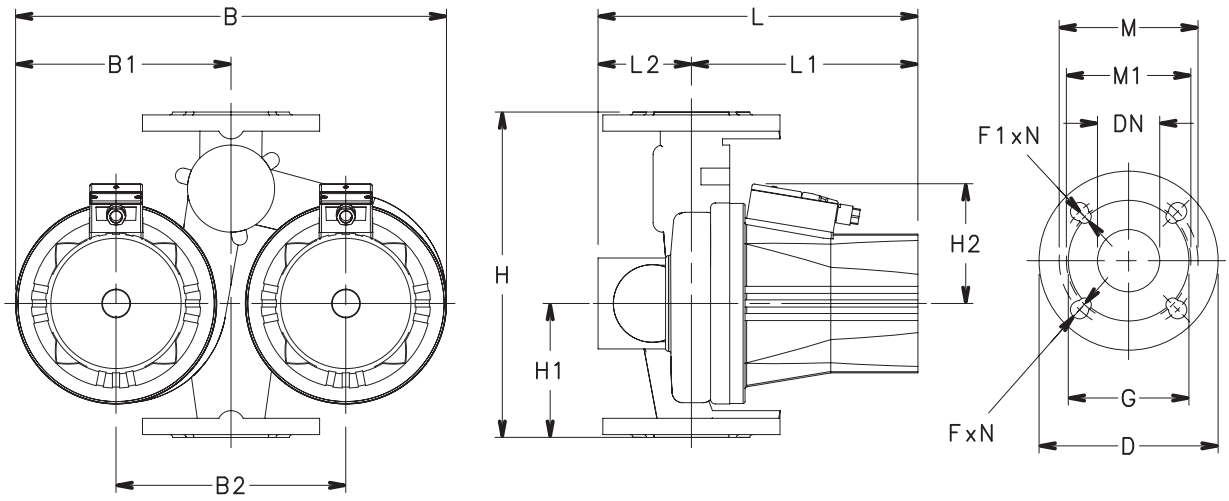
02700_A_DD

Dimensions and weights table

PUMP TYPE		DIMENSIONS (mm)									WEIGHT
SINGLE-PHASE	THREE-PHASE	B	B1	B2	H	H1	L	L1	L2	DN	kg
FLC 40-5	FLC 40-5T	180	105	75	250	125	236	166	70	40	11
FLC 40-7	FLC 40-7T	180	105	75	250	125	245	175	70	40	11
FLC 40-10	FLC 40-10T	168	93	75	250	125	276	201	75	40	14
FLC 50-5	FLC 50-5T	173	83	90	280	140	279	194	85	50	18
FLC 50-8	FLC 50-8T	173	83	90	280	140	279	194	85	50	18
FLC 50-10	FLC 50-10T	200	110	90	280	140	312	232	80	50	22
FLC 50-13	FLC 50-13T	200	110	90	280	140	312	232	80	50	25
-	FLC 50-18T	230	110	120	280	140	360	275	82	50	29
FLC 65-7	FLC 65-7T	225	125	100	340	170	345	255	90	65	29
FLC 65-10	FLC 65-10T	225	125	100	340	170	345	255	90	65	28
FLC 65-12	FLC 65-12T	225	125	100	340	170	345	255	90	65	30
-	FLC 65-16T	195	95	100	340	170	394	304	90	65	35
FLC 80-8	FLC 80-8T	310	135	175	360	180	346	241	105	80	34
FLC 80-10	FLC 80-10T	310	135	175	360	180	346	241	105	80	36
-	FLC 80-12T	310	135	175	360	180	351	246	105	80	40
-	FLC 80-15T	310	135	175	360	180	351	246	105	80	41

flc-2p50-en_a_td

FLCG SERIES
Dimensions and weights



Pump dimensions flanges

DN	DIMENSIONS (mm) ø D	ø G	ø M	ø M1	HOLES ø F	ø F1	N°	PN
40	150	90	110	100	19	14	4	6 / 10
50	165	102	125	110	19	14	4	6 / 10
65	187	126	145	130	19	14	4	6 / 10

DN	DIMENSIONS (mm) ø D	ø G	ø M	HOLES ø F	N°	PN
80	200	140	160	19	8	10

flc-flcg-flangep-en_a_td

02702_A_DD

Dimensions and weights table

PUMP TYPE		DIMENSIONS (mm)										WEIGHT
SINGLE-PHASE	THREE-PHASE	B	B1	B2	H	H1	H2	L	L1	L2	DN	kg
FLCG 40-5	FLCG 40-5T	344	172	200	250	110	110	222	147	75	40	19
FLCG 40-7	FLCG 40-7T	344	172	200	250	110	110	222	147	75	40	19
FLCG 40-10	FLCG 40-10T	348	172	200	250	110	110	265	190	75	40	26
FLCG 50-5	FLCG 50-5T	387	187	200	280	120	92	280	197	83	50	32
FLCG 50-8	FLCG 50-8T	387	187	200	280	120	92	280	197	83	50	33
FLCG 50-10	FLCG 50-10T	400	200	200	280	125	120	310	225	85	50	41
FLCG 65-7	FLCG 65-7T	450	120	240	340	140	120	329	236	93	65	49
FLCG 65-10	FLCG 65-10T	450	120	240	340	140	120	329	236	93	65	50
FLCG 65-12	FLCG 65-12T	450	120	240	340	140	120	329	236	93	65	53
-	FLCG 65-16T	450	120	240	340	140	120	378	285	93	65	63
FLCG 80-4	FLCG 80-4T	513	245	275	360	160	175	341	258	83	80	62
FLCG 80-8	FLCG 80-8T	513	245	275	360	160	175	341	258	83	80	60
FLCG 80-10	FLCG 80-10T	513	245	275	360	160	175	341	258	83	80	63
-	FLCG 80-12T	513	245	275	360	160	175	390	307	83	80	77
-	FLCG 80-15T	513	245	275	360	160	175	390	307	83	80	73

flcg-2p50-en_a_td

EFLC- EFLCG Series

In-line wet rotor circulators for residential systems, variable speed, single- or twin-pump version.

Specifications

Delivery:
up to 35 m^3/h (single version)
up to 30 m^3/h (with 2 pumps operating)
Head: up to11 m
Power Supply: single-phase 50 Hz
Power: 25 W to 1080 W
Maximum operating pressure:
10 bar
Temperature of the pumped liquid -15°C ÷ +90°C
Insulation class: F
Protection: IP 44

Materials

Pump body: Cast iron
Impeller:
Up to EFLC(G) 40-9): Composite material
From EFLC(G) 40-11) on: cast iron
Shaft: Stainless steel
Sleeve: Stainless steel
Bearings: Graphite
Elastomers: EPDM

Applications

Water supply

Heating, air conditioning and cooling systems

General industry



For a complete list of technical information, consult www.lowara.com

EFLC SERIES (SINGLE VERSION, SINGLE-PHASE)
Hydraulic performance table

PUMP TYPE	POWER ABSORBED		CURRENT ABSORBED		SPEED	Q = DELIVERY										
						l/s 0	1,4	2,2	2,8	4,2	5,6	6,9	8,3	9,7	11,1	13,9
	MIN	MAX	MIN	MAX		m^3/h 0	5	8	10	15	20	25	30	35	40	50
230V 50Hz	W	W	A	A		H = TOTAL HEAD METRES COLUMN OF WATER										
EFLC 40-9	25	300	0,25	1,80	1	5,2	3,2	2,0								
					2	6,3	4,0	2,6								
					3	7,3	4,7	3,2	2,1							
					4	10,5	6,0	3,8	2,4							
					max	4,8	6,0	3,8								
EFLC 40-11	40	650	0,35	3,70	1	5,2	4,6	4,0	3,5	1,6						
					2	6,4	5,7	5,2	4,6	2,8						
					3	7,7	7,1	6,4	5,8	4,0	1,6					
					4	12,0	9,5	8,1	7,1	4,6	2,1					
					max	5,1	6,1	6,7	7,1	4,6						
EFLC 50-12	50	750	0,35	3,50	1	5,2	5,0	4,5	4,1	2,7						
					2	6,7	6,2	5,8	5,4	4,0	2,3					
					3	8,1	7,5	7,1	6,7	5,3	3,6	1,5				
					4	12,7	10,6	9,3	8,5	6,4	4,3	2,2				
					max	5,3	6,6	7,3	7,7	6,4	4,3					
EFLC 65-12	90	1090	0,70	7,70	1	5,1	4,6	4,3	4,1	3,4	2,5	1,4				
					2	6,5	6,0	5,7	5,4	4,7	3,8	2,6	1,3			
					3	8,0	7,5	7,2	6,9	6,1	5,2	4,0	2,7	1,2		
					4	12,5	10,7	9,8	9,2	7,7	6,2	4,8	3,5	2,2		
					max	6,4	6,8	7,1	7,3	7,7	6,2	4,8				
EFLC 80-7	120	1080	1,20	8,00	1	3,7	3,5	3,4	3,2	2,9	2,5	2,1	1,6	1,0		
					2	4,8	4,6	4,5	4,4	4,0	3,6	3,1	2,6	1,9	1,2	
					3	6,0	5,7	5,5	5,4	5,0	4,6	4,1	3,6	3,0	2,4	1,0
					4	6,9	6,6	6,3	6,2	5,7	5,3	4,7	4,1	3,5	2,9	1,7
					max	4,0	4,4	4,7	4,9	5,4	5,3	4,7	4,1	3,5		

Performances according to standards ISO 9906 - Annex A.

eflc-2p50-en_c_th

EFLCG SERIES (TWIN VERSION, SINGLE-PHASE)
hydraulic performance table
(single operation)

PUMP TYPE	POWER ABSORBED		CURRENT ABSORBED		SPEED	Q = DELIVERY										
						l/s 0	1,4	2,2	2,8	4,2	5,6	6,9	8,3	9,7	11,1	13,9
	MIN	MAX	MIN	MAX		m^3/h 0	5	8	10	15	20	25	30	35	40	50
230V 50Hz	W	W	A	A		H = TOTAL HEAD METRES COLUMN OF WATER										
EFLCG 40-9	25	300	0,25	1,80	1	5,2	3,2	2,0								
					2	6,3	4,0	2,6								
					3	7,3	4,7	3,2	2,1							
					4	10,5	6,0	3,8	2,4							
					max	4,8	6,0	3,8								
EFLCG 40-11	40	650	0,35	3,70	1	5,2	4,6	4,0	3,5	1,6						
					2	6,4	5,7	5,2	4,6	2,8						
					3	7,7	7,1	6,4	5,8	4,0	1,6					
					4	12,0	9,5	8,1	7,1	4,6	2,1					
					max	5,1	6,1	6,7	7,1	4,6						
EFLCG 50-12	50	750	0,35	3,50	1	5,2	5,0	4,5	4,1	2,7						
					2	6,7	6,2	5,8	5,4	4,0	2,3					
					3	8,1	7,5	7,1	6,7	5,3	3,6	1,5				
					4	12,7	10,6	9,3	8,5	6,4	4,3	2,2				
					max	5,3	6,6	7,3	7,7	6,4	4,3					
EFLCG 65-12	90	1090	0,70	7,70	1	5,1	4,6	4,3	4,1	3,4	2,5	1,4				
					2	6,5	6,0	5,7	5,4	4,7	3,8	2,6	1,3			
					3	8,0	7,5	7,2	6,9	6,1	5,2	4,0	2,7	1,2		
					4	12,5	10,7	9,8	9,2	7,7	6,2	4,8	3,5	2,2		
					max	6,4	6,8	7,1	7,3	7,7	6,2	4,8				
EFLCG 80-7	120	1080	1,20	8,00	1	3,7	3,5	3,4	3,2	2,9	2,5	2,1	1,6	1,0		
					2	4,8	4,6	4,5	4,4	4,0	3,6	3,1	2,6	1,9	1,2	
					3	6,0	5,7	5,5	5,4	5,0	4,6	4,1	3,6	3,0	2,4	1,0
					4	6,9	6,6	6,3	6,2	5,7	5,3	4,7	4,1	3,5	2,9	1,7
					max	4,0	4,4	4,7	4,9	5,4	5,3	4,7	4,1	3,5		

Performances according to standards ISO 9906 - Annex A.

eflcg-2p50S-en_d_th

EFLCG (TWIN VERSION, SINGLE-PHASE)
hydraulic performance table
(parallel operation)

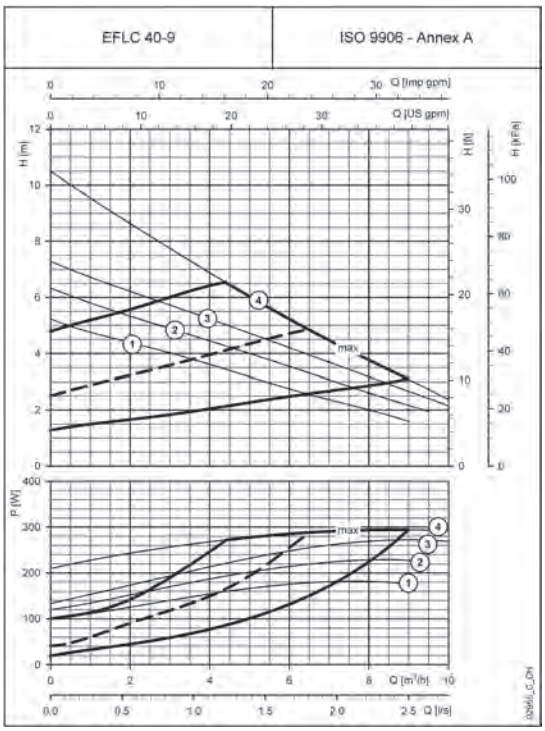
PUMP TYPE	POWER ABSORBED		CURRENT ABSORBED		SPEED	Q = DELIVERY										
						l/s 0	1,4	2,8	5,0	8,3	11,1	13,9	16,7	19,4	22,2	25,0
	MIN	MAX	MIN	MAX		m^3/h 0	5	10	18	30	40	50	60	70	80	90
230V 50Hz	W*	W*	A*	A*		H = TOTAL HEAD METRES COLUMN OF WATER										
EFLCG 40-9	25	300	0,25	1,80	1	5,2	4,1	2,9								
					2	6,3	5,0	3,7								
					3	7,3	5,8	4,4	2,1							
					4	10,5	7,9	5,6	2,4							
					max	4,8	5,9	5,6								
EFLCG 40-11	40	650	0,35	3,70	1	5,2	4,8	4,4	3,0							
					2	6,4	5,9	5,5	4,2	1,0						
					3	7,7	7,4	6,8	5,4	2,3						
					4	12,0	10,4	8,9	6,5	2,8						
					max	5,2	5,8	6,4	6,5							
EFLCG 50-12	50	750	0,35	3,50	1	5,2	5,2	4,9	4,1	1,9						
					2	6,7	6,5	6,1	5,3	3,3						
					3	8,1	7,8	7,4	6,6	4,7	2,5					
					4	12,7	11,5	10,3	8,4	5,5	3,1					
					max	5,3	6,0	6,7	7,7	5,5						
EFLCG 65-12	90	1090	0,70	7,70	1	5,1	4,8	4,6	4,1	3,1	2,0	0,8				
					2	6,5	6,2	6,0	5,4	4,4	3,3	1,9				
					3	8,0	7,8	7,5	6,9	5,8	4,7	3,3	1,7			
					4	12,5	11,5	10,6	9,2	7,2	5,6	4,1	2,6			
					max	6,3	6,6	6,9	7,3	7,2	5,6					
EFLCG 80-7	120	1080	1,20	8,00	1	3,7	3,6	3,5	3,3	2,8	2,4	1,9	1,3			
					2	4,8	4,7	4,6	4,4	3,9	3,5	2,9	2,3	1,5		
					3	6,0	5,9	5,7	5,4	4,9	4,4	3,9	3,3	2,7	2,0	1,2
					4	6,9	6,7	6,5	6,2	5,6	5,1	4,5	3,9	3,2	2,5	1,8
					max	4,0	4,2	4,5	4,9	5,5	5,1	4,5				

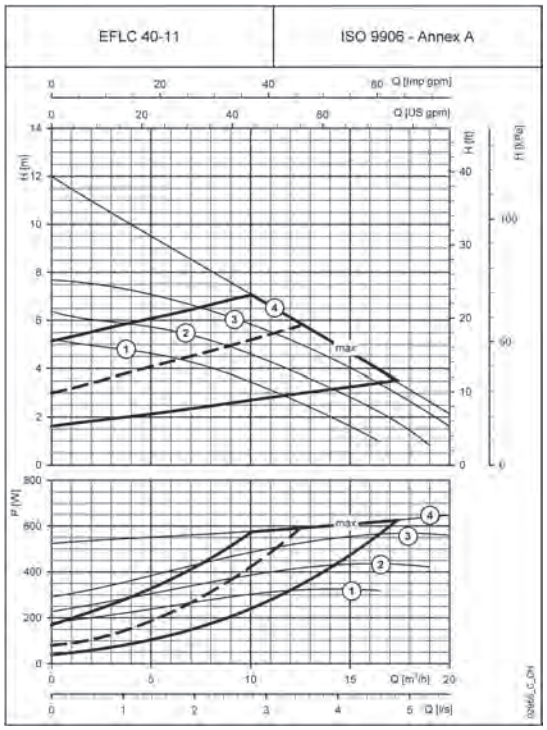
* Electric data refer to single motor.

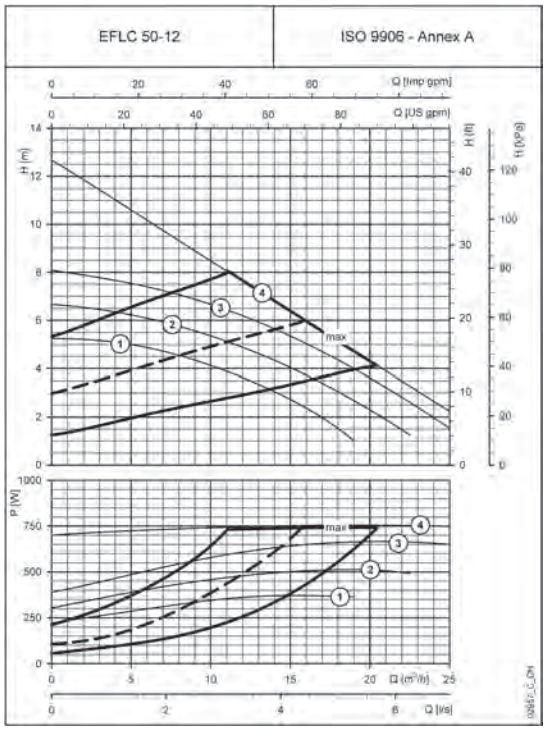
eflcg-2p50P-en_d_th

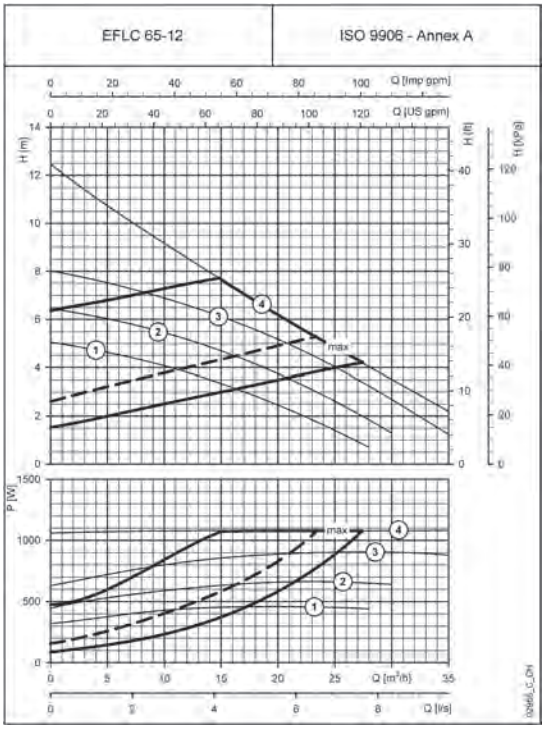
Performances according to standards ISO 9906 - Annex A.

EFLC SERIES
Single-phase operating characteristics



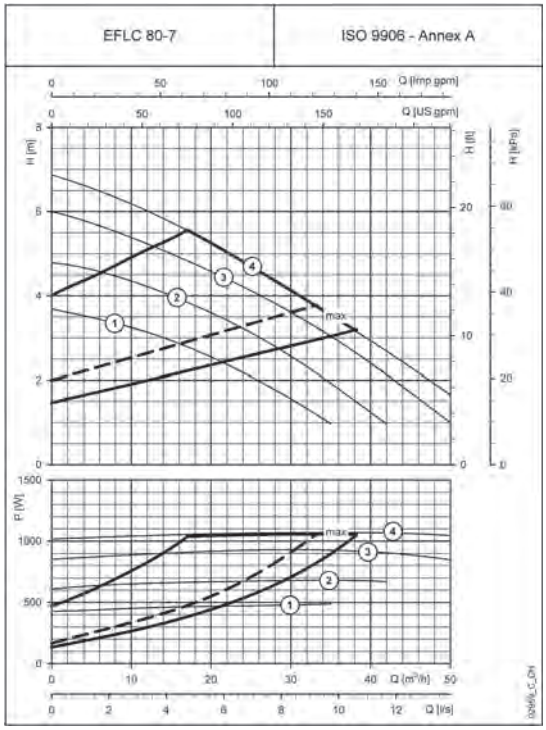






These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

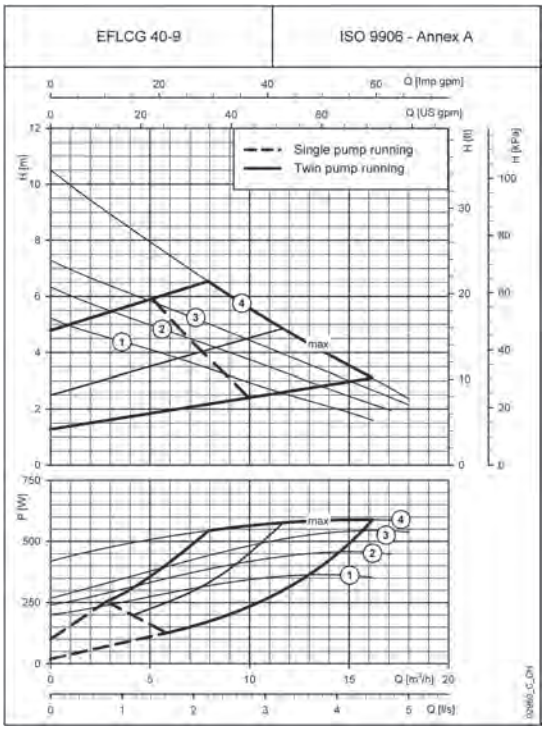
EFLC SERIES
Single-phase operating characteristics

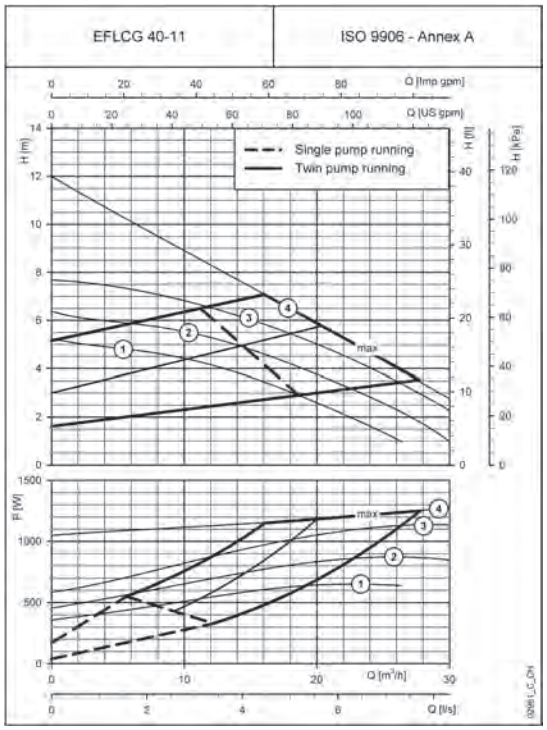


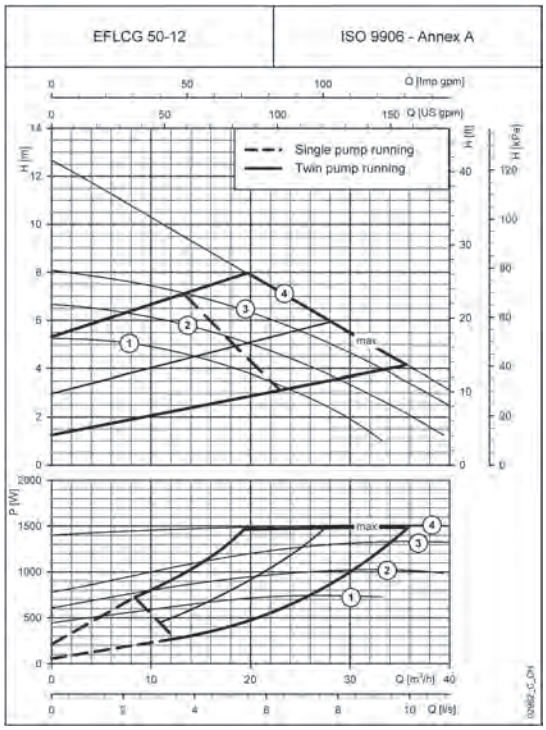
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

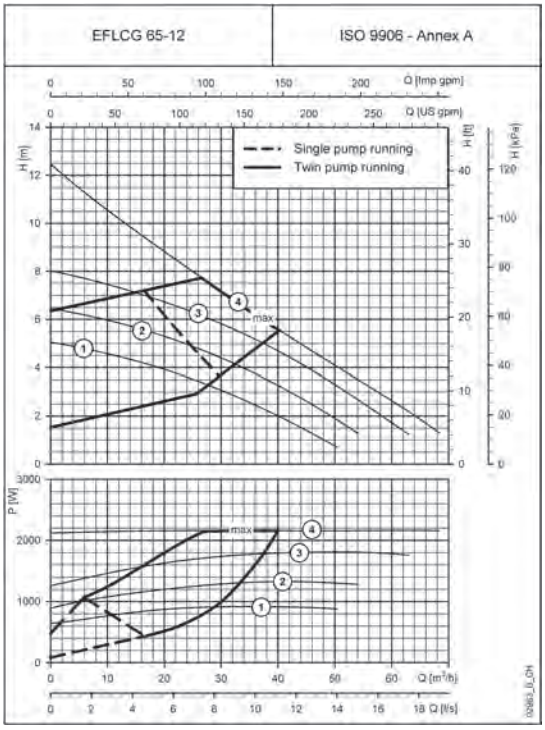
Black and white technical books available
see www.lowara.it

EFLCG SERIES
Single-phase operating characteristics





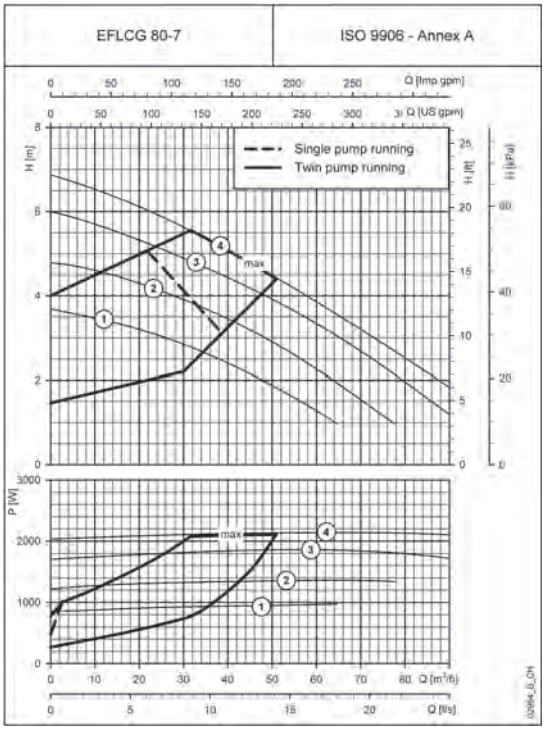




These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

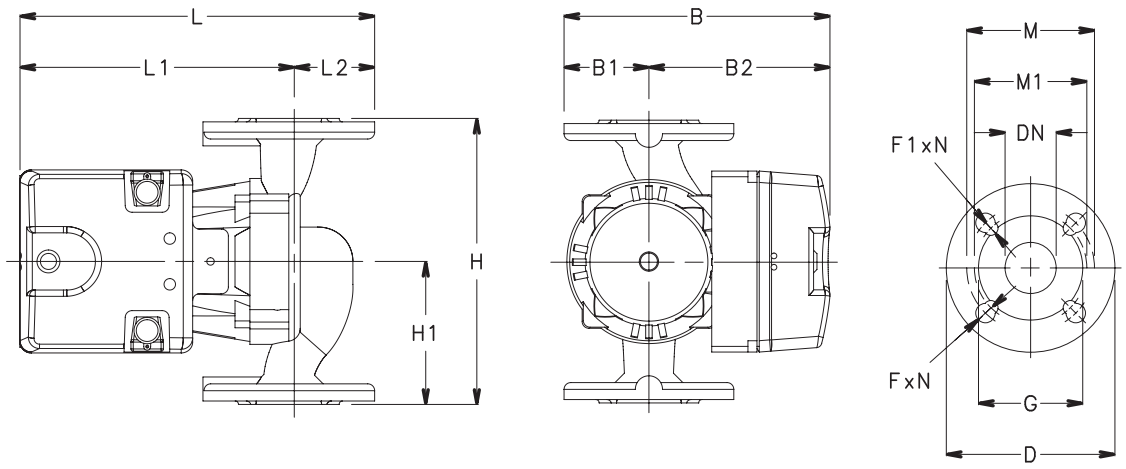
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

EFLCG SERIES
Single-phase operating characteristics



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

Black and white technical books available
see www.lowara.it



Pump flanges dimensions

DN	DIMENSIONS (mm) ø D	ø G	ø M	ø M1	HOLES ø F	ø F1	N°	PN
40	150	90	110	100	19	14	4	6 / 10
50	165	102	125	110	19	14	4	6 / 10
65	187	126	145	130	19	14	4	6 / 10

DN	DIMENSIONS (mm) ø D	ø G	ø M	HOLES ø F	N°	PN
80	200	140	160	19	8	10

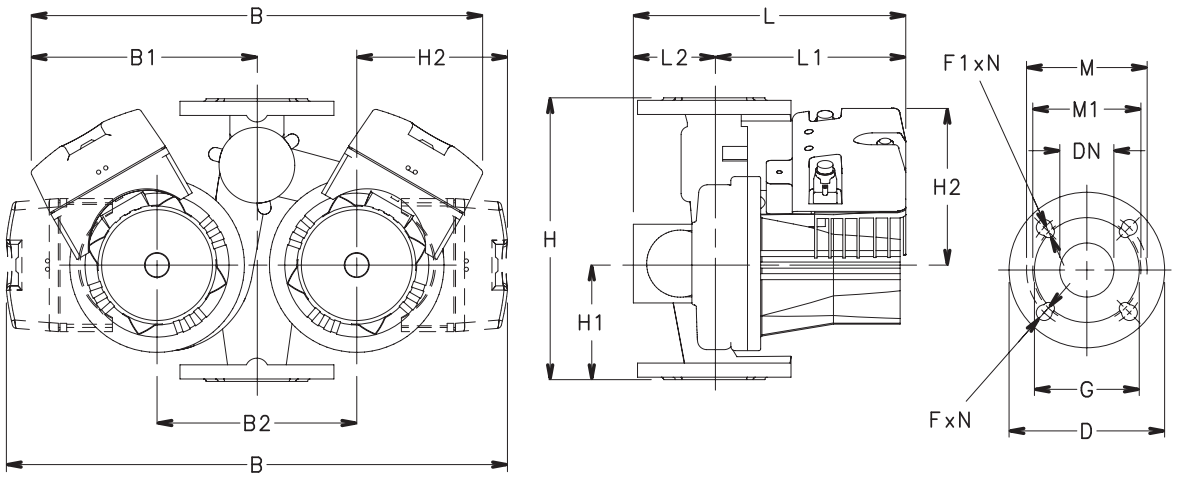
flc-flcg-flangep-en_a_td

02710_A_DD

Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm)									WEIGHT
SINGLE-PHASE	B	B1	B2	H	H1	L	L1	L2	DN	kg
EFLC 40-9	235	75	160	250	125	300	230	70	40	13
EFLC 40-11	235	75	160	250	125	310	235	75	40	16
EFLC 50-12	248	83	165	280	140	315	230	85	50	20
EFLC 65-12	275	100	175	340	170	346	256	90	65	30
EFLC 80-7	285	110	175	360	180	351	246	105	80	36

efc-2p50-en_a_td



Pump flanges dimensions

DN	DIMENSIONS (mm) ø D	ø G	ø M	ø M1	HOLES ø F	ø F1	N°	PN
40	150	90	110	100	19	14	4	6 / 10
50	165	102	125	110	19	14	4	6 / 10
65	187	126	145	130	19	14	4	6 / 10

DN	DIMENSIONS (mm) ø D	ø G	ø M	HOLES ø F	N°	PN
80	200	140	160	19	8	10

flc-flcg-flangep-en_a_td

02712_A_DD

Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm) B	B1	B2	H	H1	H2	L	L1	L2	DN	WEIGHT kg
EFLCG 40-9	436	218	200	250	105	170	287	212	75	40	22
EFLCG 40-11	520	265	200	250	105	165	304	229	75	40	29
EFLCG 50-12	490	245	200	280	120	170	317	198	83	50	35
EFLCG 65-12	528	300	275	340	140	180	328	235	93	65	54
EFLCG 80-7	660	340	275	360	100	180	342	240	102	80	70

eflcg-2p50-en_b_td

ECOCIRC®+ Auto Series

In-line wet rotor circulators for residential systems, variable speed with automatic adjustment based on systems requirement.
Permanent magnets EC (Electronically Commuted) type motor with spherical rotor/stator. A-Class efficiency.

Specifications

Delivery: up to 3 m^3/h
Head: up to 5,5 m
Power Supply: single-phase 50-60 Hz
Power: 6 W to 50 W
Maximum operating pressure: 10 bar
Temperature of the pumped liquid -10°C ÷ +95°C
Insulation class: F
Protection: IP 44
Energy efficiency class: A

Materials

Pump body: Cast iron
Rotor assembly group: Stainless steel/composite material/Carbon
Bearings: Ceramic
Elastomers: EPDM

Applications

Water circulation in heating and air conditioning systems

Refurbishment or extension of existing systems

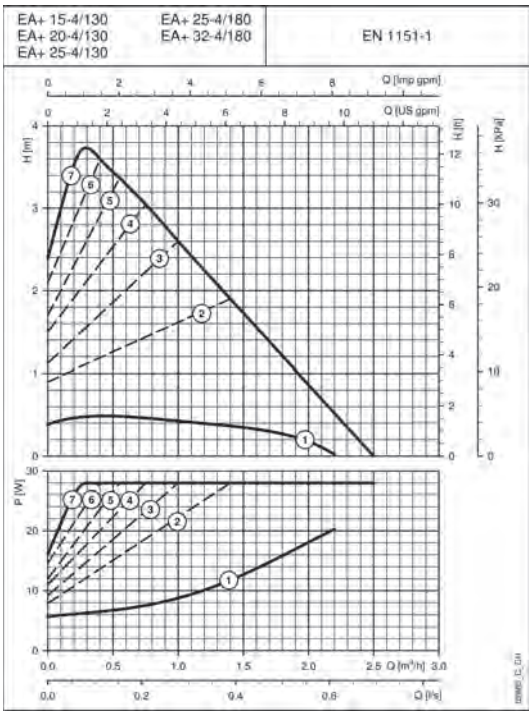
Recommended for facilities fitted with thermostatic valves

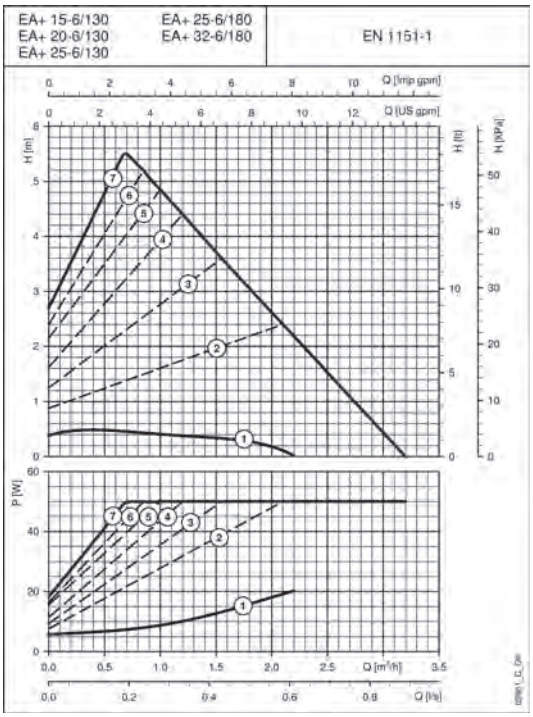
Floor heating systems



For a complete list of technical information, consult www.lowara.com

EA+ SERIES
Single-phase operating characteristics

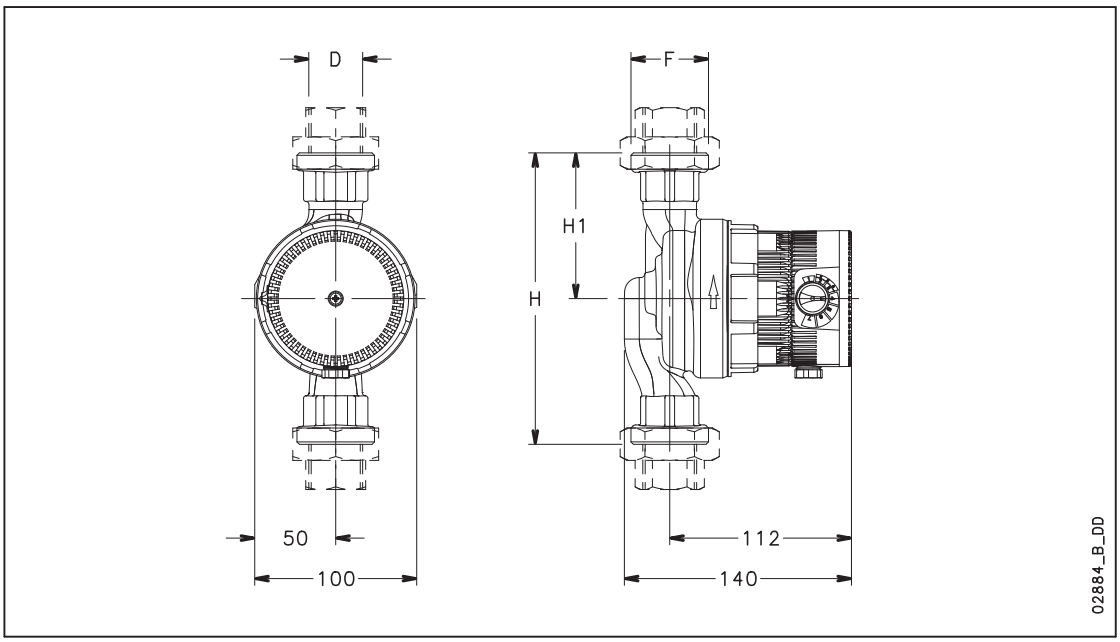




These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

EA+ SERIES
Dimensions and weights



Dimensione and weights table

PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
EA+ 15-4/130	130	65	1/2"	G 1"	15	1,1
EA+ 20-4/130	130	65	3/4"	G 1"¼	20	1,2
EA+ 25-4/130	130	65	1"	G 1"½	25	1,3
EA+ 25-4/180	180	90	1"	G 1"½	25	1,6
EA+ 32-4/180	180	90	1"¼	G 2"	32	1,6
EA+ 15-6/130	130	65	1/2"	G 1"	15	1,1
EA+ 20-6/130	130	65	3/4"	G 1"¼	20	1,2
EA+ 25-6/130	130	65	1"	G 1"½	25	1,3
EA+ 25-6/180	180	90	1"	G 1"½	25	1,6
EA+ 32-6/180	180	90	1"¼	G 2"	32	1,6

ea-2p50-en_c_td

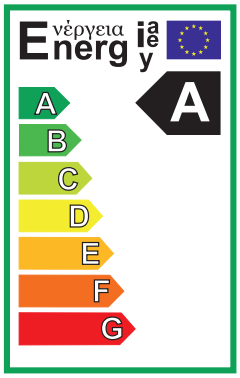
Hydraulic performance table

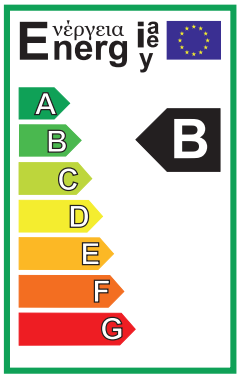
PUMP TYPE	POWER ABSORBED		CURRENT ABSORBED		SPEED	Q = DELIVERY										
						l/s 0	0,06	0,11	0,17	0,22	0,28	0,33	0,44	0,56	0,69	0,83
	MIN	MAX	MIN	MAX		m^3/h 0	0,2	0,4	0,6	0,8	1,0	1,2	1,6	2,0	2,5	3,0
230V 50Hz	W	W	A	A		H = TOTAL HEAD METRES COLUMN OF WATER										
EA+ 15-4/130 EA+ 20-4/130 EA+ 25-4/130 EA+ 25-4/180 EA+ 32-4/180	6	38	0,10	0,28	min	0,4	0,5	0,5	0,5	0,5	0,4	0,4	0,3	0,2		
					max	2,4	3,6	3,6	3,3	3,0	2,6	2,3	1,6	0,9		
EA+ 15-6/130 EA+ 20-6/130 EA+ 25-6/130 EA+ 25-6/180 EA+ 32-6/180	6	50	0,10	0,43	min	0,4	0,5	0,5	0,5	0,5	0,4	0,4	0,3	0,2		
					max	2,7	3,6	4,4	5,2	5,3	4,8	4,4	3,5	2,6	1,5	0,4

Performances according to standards EN 1151-1

ea-50-en_d_th

ECOCIRC®+ Vario Series





In-line wet rotor circulators for residential systems, variable speed with automatic adjustment based on systems requirement. Permanent magnets EC (Electronically Commuted) type motor with spherical rotor/stator.

Specifications

Delivery: up to 3 m^3/h
Head: up to 5,5 m
Power Supply: single-phase 50-60 Hz
Power: 96 W to 50 W
Maximum operating pressure: 6 bar
Temperature of the pumped liquid -10°C ÷ +95°C
Insulation class: F
Protection: IP 44
Energy efficiency class:
A (4 m head)
B (6 m head)

Materials

Pump body: Cast iron
Rotor assembly group: Stainless steel/composite material/Carbon
Bearings: Ceramic
Elastomers: EPDM

Applications

Water circulation in heating and air conditioning systems

Refurbishment or extension of existing systems

Solar panel heating systems

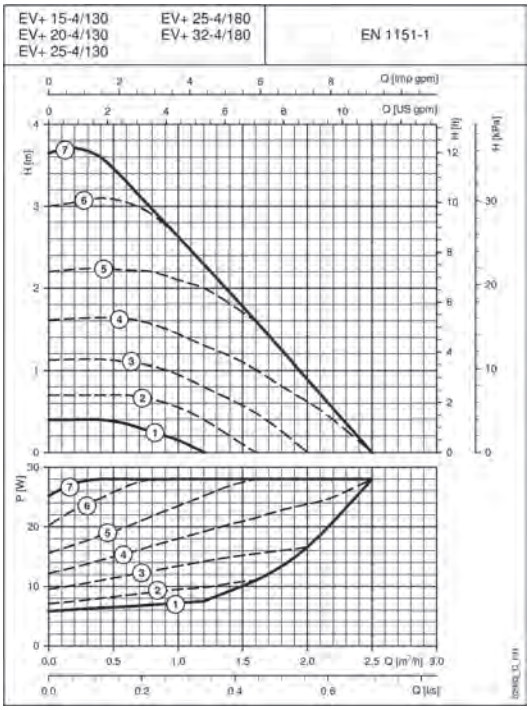
Single-family houses

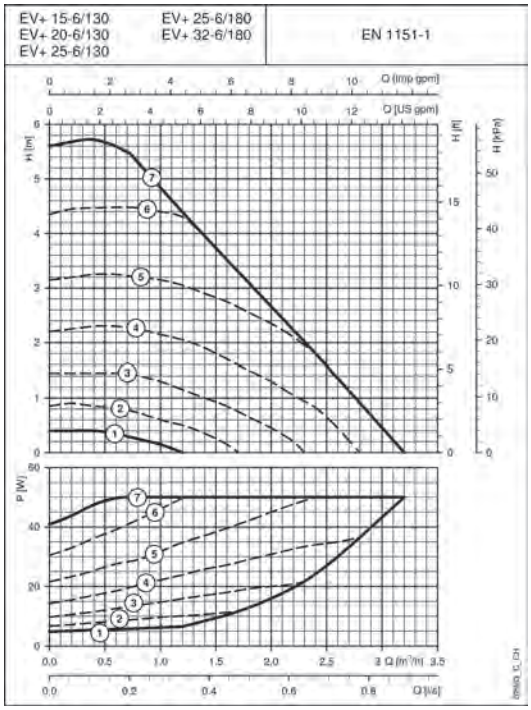
Closed loops cooling circuit



For a complete list of technical information, consult www.lowara.com

SERIE EV+
Single-phase operatimg characteristics

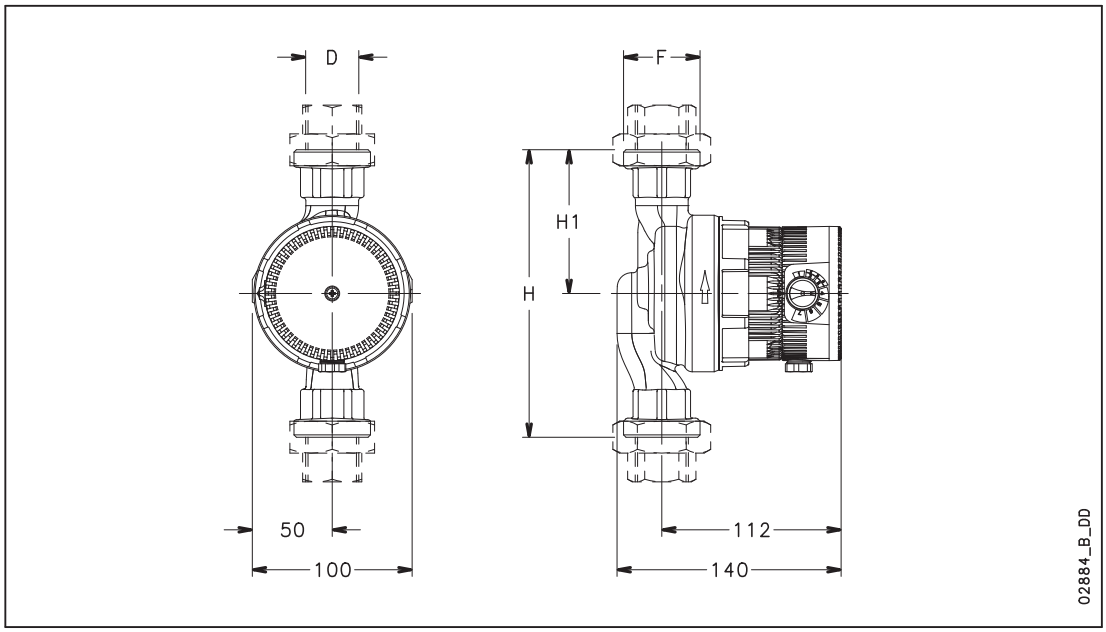




These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

EV+ SERIES
Dimensions and weights



Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	kg
EV+ 15-4/130	130	65	1/2"	G 1"	15	1,1
EV+ 20-4/130	130	65	3/4"	G 1"¼	20	1,2
EV+ 25-4/130	130	65	1"	G 1"½	25	1,3
EV+ 25-4/180	180	90	1"	G 1"½	25	1,6
EV+ 32-4/180	180	90	1"¼	G 2"	32	1,6
EV+ 15-6/130	130	65	1/2"	G 1"	15	1,1
EV+ 20-6/130	130	65	3/4"	G 1"¼	20	1,2
EV+ 25-6/130	130	65	1"	G 1"½	25	1,3
EV+ 25-6/180	180	90	1"	G 1"½	25	1,6
EV+ 32-6/180	180	90	1"¼	G 2"	32	1,6

ev-2p50-en_c_td

Hydraulic performance table

PUMP TYPE	POWER ABSORBED		SPEED	Q = DELIVERY										
				l/s 0	0,06	0,11	0,17	2,22	0,28	0,33	0,44	0,56	0,69	0,83
	MIN	MAX		m^3/h 0	0,2	0,4	0,6	8,0	1,0	1,2	1,6	2,0	2,5	3,0
230V 50Hz	W	W		H = TOTAL HEAD METRES COLUMN OF WATER										
EV+ 15-4/130 EV+ 20-4/130 EV+ 25-4/130 EV+ 25-4/180 EV+ 32-4/180	6	28	min	0,4	0,4	0,4	0,4	0,3	0,2					
			max	3,7	3,7	3,6	3,3	3,0	2,6	2,3	1,6	0,9		
EV+ 15-6/130 EV+ 20-6/130 EV+ 25-6/130 EV+ 25-6/180 EV+ 32-6/180	6	50	min	0,4	0,4	0,4	0,4	0,3	0,2					
			max	5,6	5,7	5,7	5,6	5,3	4,8	4,4	3,5	2,7	1,6	0,4

Performances according to standards EN 1151-1

ev-50-en_d_th

ECOCIRC Bronze Series

In-line wet rotor circulators for residential systems, fixed or variable speed. Permanent magnets EC (Electronically Commuted) type motor with spherical rotor/stator.

Specifications

Delivery: up to 1 m^3/h
Head: up to 3 m
Power Supply: single-phase 50-60 Hz
Power: 2 W to 27 W
Maximum operating pressure: 10 bar
Temperature of the pumped liquid -10°C ÷ +95°C
Insulation class: F
Protection: IP 44

Materials

Pump body: Cast iron
Rotor assembly group: Stainless steel/composite material/Carbon
Bearings: Ceramic
Elastomers: EPDM

Applications

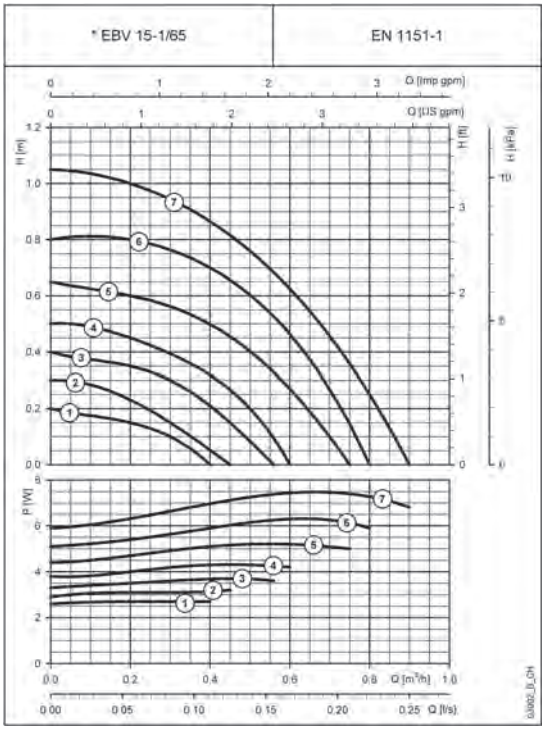
Hot water recirculation

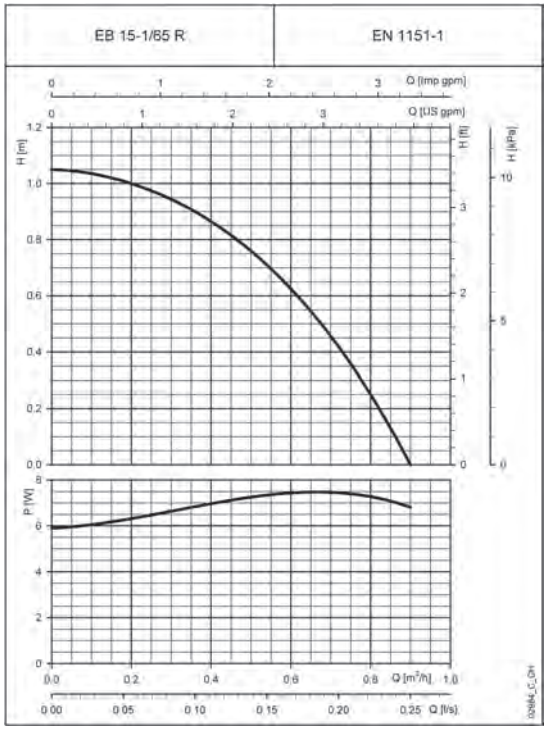
Solar panel heating systems

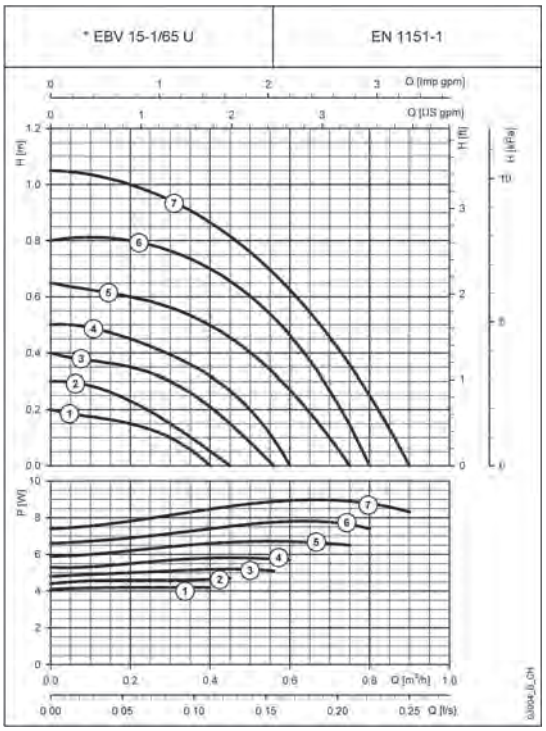


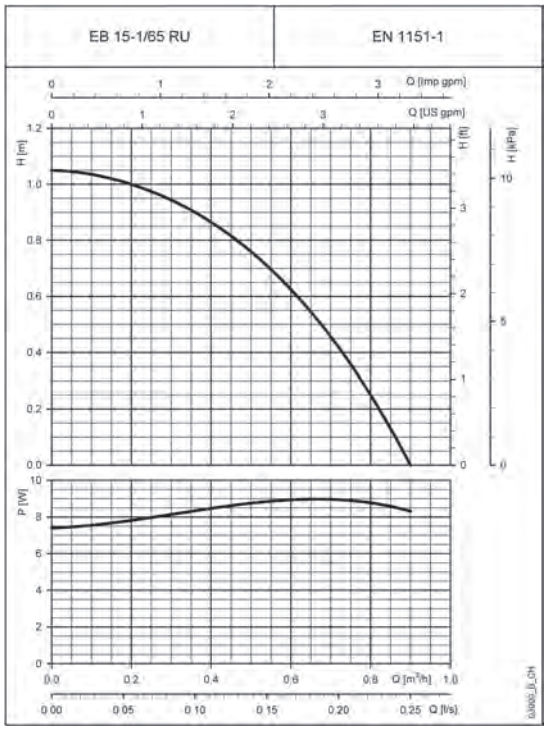
For a complete list of technical information, consult www.lowara.com

EB (V) SERIES
Single-phase operating characteristics





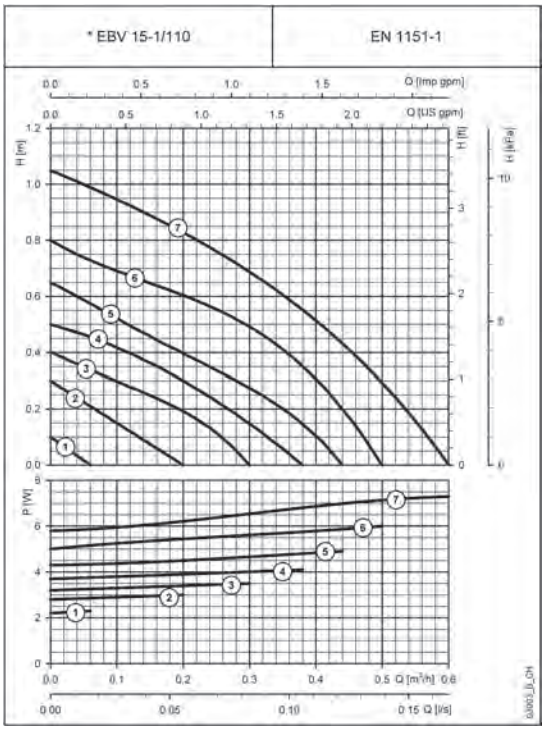


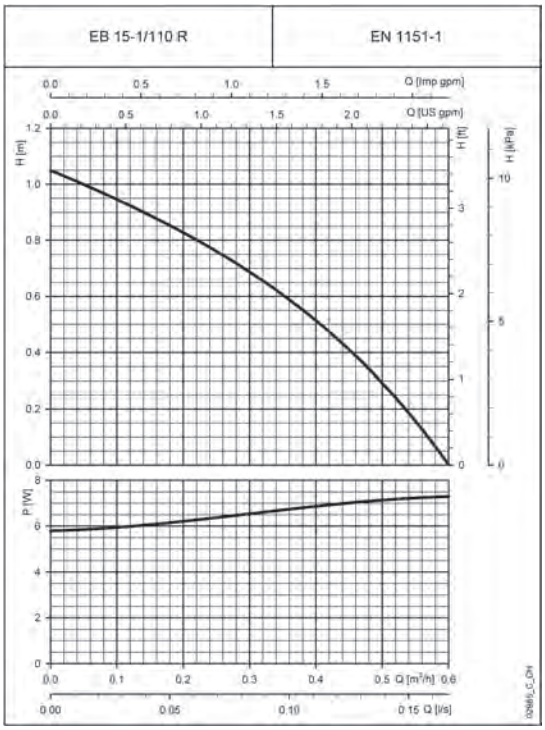


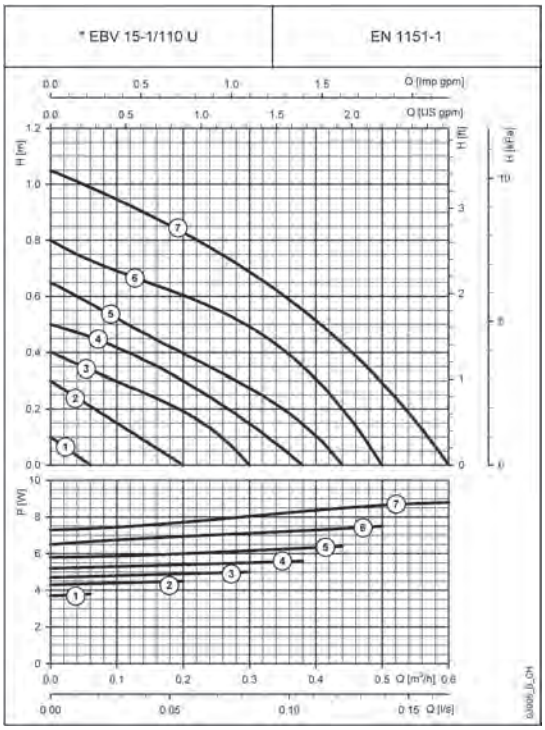
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

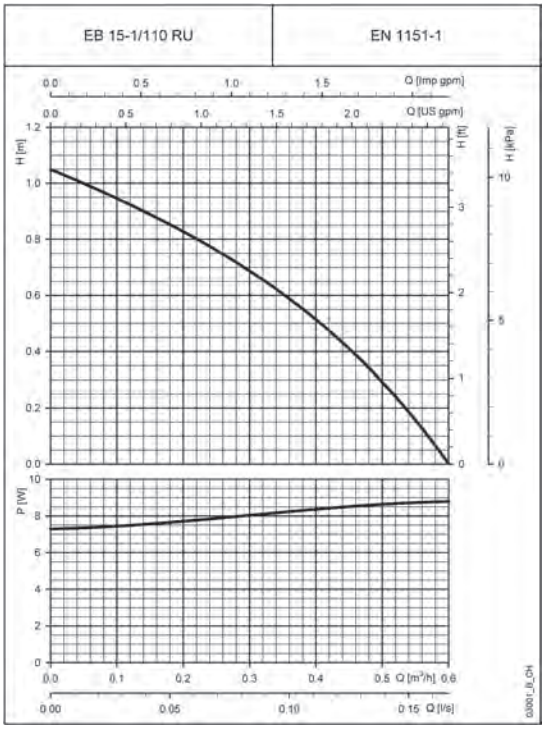
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

EB (V) SERIES
Single-phase operating characteristics





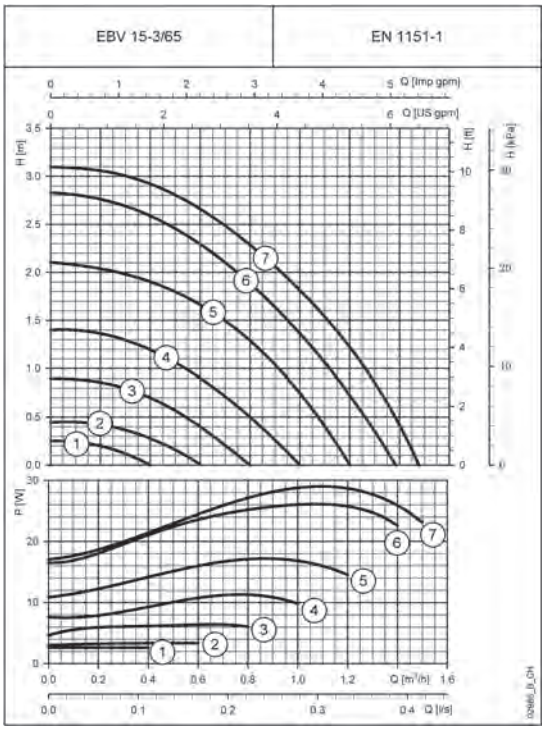


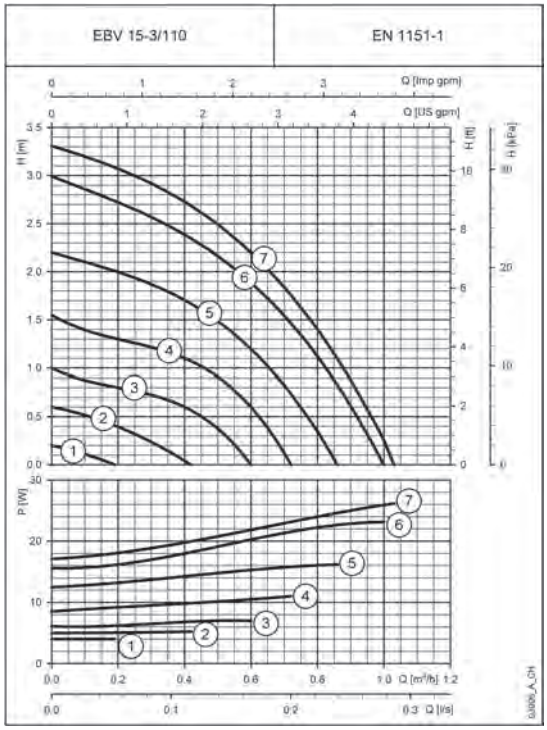


These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

EB (V) SERIES
Single-phase operating characteristics



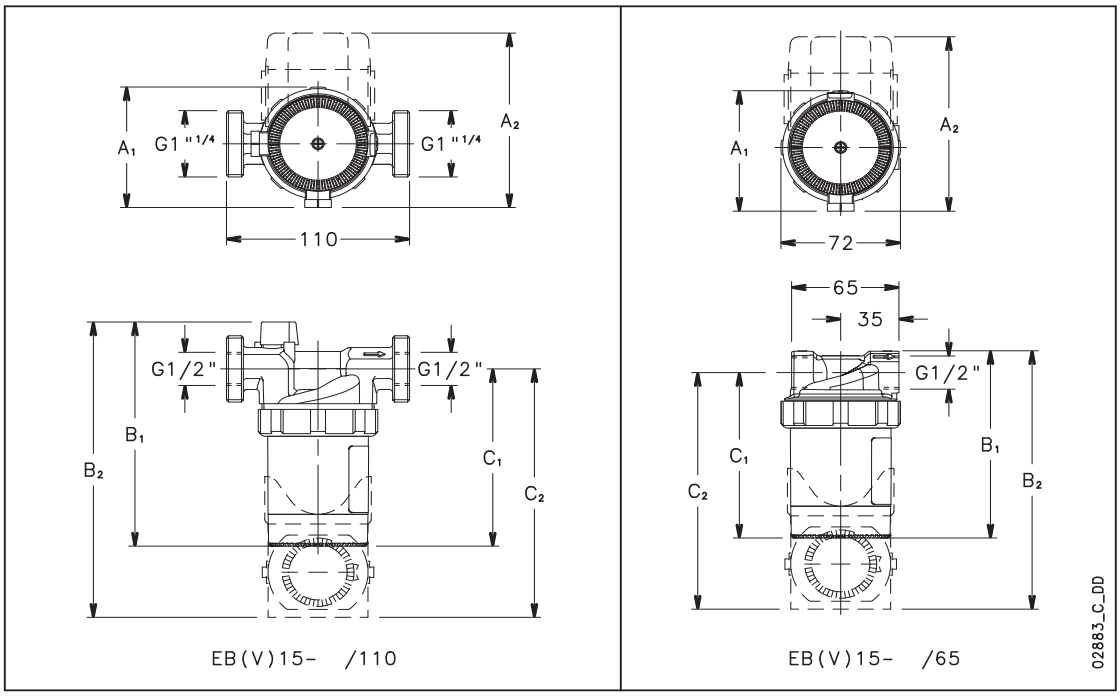




These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

EB (V) SERIES
Dimensions and weights



Dimensions and weights table

PUMP TYPE	DIMENSIONS (mm)							WEIGHT
	A_1	A_2	B_1	B_2	C_1	C_2	DN	kg
EBV 15-1/65 - EB 15-1/65R	76	-	118	-	105	-	15	0,9
EBV 15-1/65U - EB 15-1/65RU	-	110	-	163	-	150	15	1
EBV 15-1/110 - EB 15-1/110R	76	-	142	-	112	-	15	1,3
EBV 15-1/110U - EB 15-1/110RU	-	110	-	187	-	157	15	1,4
EBV 15-3/65	76	-	118	-	105	-	15	0,9
EBV 15-3/110	76	-	142	-	112	-	15	1,3

eb-2p50-en_c_td

Hydraulic performance table

PUMP TYPE	POWER ABSORBED		SPEED	Q = DELIVERY										
				l/s 0	0,03	0,06	0,08	0,11	0,14	0,19	0,22	0,28	0,36	0,39
	MIN	MAX		m^3/h 0	0,1	0,2	0,3	0,4	0,5	0,7	0,8	1	1,3	1,4
230V 50Hz	W	W		H = TOTAL HEAD METRES COLUMN OF WATER										
EBV 15-1/65	2,6	2,7	min	0,20	0,18	0,15	0,10	0						
	5,9	7,5	max	1,05	1,04	1,00	0,94	0,86	0,76	0,46	0,25			
EB 15-1/65 R	5,9	7,5	max	1,05	1,04	1,00	0,94	0,86	0,76	0,46	0,25			
EBV 15-1/65 U	4,1	4,2	min	0,20	0,18	0,15	0,10	0						
	7,4	9,0	max	1,05	1,04	1,00	0,94	0,86	0,76	0,46	0,25			
EB 15-1/65 RU	7,4	9,0	max	1,05	1,04	1,00	0,94	0,86	0,76	0,46	0,25			
EBV 15-1/110	2,2	2,3	min	0,10										
	5,8	7,3	max	1,05	0,95	0,83	0,69	0,51	0,29					
EB 15-1/110 R	5,8	7,3	max	1,05	0,95	0,83	0,69	0,51	0,29					
EBV 15-1/110 U	3,7	3,8	min	0,10										
	7,3	8,8	max	1,05	0,95	0,83	0,69	0,51	0,29					
EB 15-1/110 RU	7,3	8,8	max	1,05	0,95	0,83	0,69	0,51	0,29					
EBV 15-3/65	2,6	2,6	min	0,25	0,24	0,20	0,12	0						
	17,1	23,7	max	3,10	3,09	3,08	3,07	3,06	3,04	3,02	3,00	2,97	2,91	2,89
EBV 15-3/110	4,0	4,0	min	0,20	0,11									
	17,1	26,6	max	3,31	3,20	3,08	2,96	2,84	2,71	2,43	2,28	1,96		

Prestazioni conformi alle norme EN 1151-1

eb-50-en_d_th

Product range chart

TYPE	Version		Power supply		Pump coupling		Temperature of pumped liquid *						Ambient temperature	Protection class
	Single	Twin	Single-phase 230 V 50 Hz	Three-phase 400 V 50 Hz	Threaded	Flanged	-25°C ÷ +110°C	-15°C ÷ +120°C	-10°C ÷ +95°C	-10°C ÷ +110°C	-10°C ÷ +130°C	+15°C ÷ +90°C	Max 40°C	IP 44
RESIDENTIAL														
TLC 15-2.5	•		•		•					•			•	•
TLC 25-2.5L	•		•		•					•			•	•
TLC 32-2.5L	•		•		•					•			•	•
TLC 15-4	•		•		•					•			•	•
TLC 25-4	•		•		•					•			•	•
TLC 25-4L	•		•		•					•			•	•
TLC 32-4L	•		•		•					•			•	•
TLC 15-5	•		•		•					•			•	•
TLC 25-5	•		•		•					•			•	•
TLC 25-5L	•		•		•					•			•	•
TLC 32-5L	•		•		•					•			•	•
TLC 15-6	•		•		•					•			•	•
TLC 25-6	•		•		•					•			•	•
TLC 25-6L	•		•		•					•			•	•
TLC 32-6L	•		•		•					•			•	•
TLC 15-7	•		•		•					•			•	•
TLC 25-7L	•		•		•					•			•	•
TLC 32-7L	•		•		•					•			•	•
LIGHT COMMERCIAL / COMMERCIAL														
TLCH 25-7L	•		•		•					•			•	•
TLCH 32-7L	•		•		•					•			•	•
TLCH 25-8L	•		•		•					•			•	•
TLCH 32-8L	•		•		•					•			•	•
TLCH 25-10L	•		•		•					•			•	•
TLCH 32-10L	•		•		•					•			•	•
TLCH 25-12L	•		•		•					•			•	•
TLCH 32-12L	•		•		•					•			•	•
FLC (G) 40-5 (T)	•	•	•	•		•		•					•	•
FLC (G) 40-7 (T)	•	•	•	•		•		•					•	•
FLC (G) 40-10 (T)	•	•	•	•		•		•					•	•
FLC (G) 50-5 (T)	•	•	•	•		•		•					•	•
FLC (G) 50-8 (T)	•	•	•	•		•		•					•	•
FLC (G) 50-10 (T)	•	•	•	•		•		•					•	•
FLC 50-13 (T)	•		•	•		•		•					•	•
FLC 50-18 T	•			•		•		•					•	•
FLC (G) 65-7 (T)	•	•	•	•		•		•					•	•
FLC (G) 65-10 (T)	•	•	•	•		•		•					•	•
FLC (G) 65-12 (T)	•	•	•	•		•		•					•	•
FLC (G) 65-16 T	•	•		•		•		•					•	•
FLCG 80-4 (T)		•	•	•		•		•					•	•
FLC (G) 80-8 (T)	•	•	•	•		•		•					•	•
FLC (G) 80-10 (T)	•	•	•	•		•		•					•	•
FLC (G) 80-12 T	•	•		•		•		•					•	•
FLC (G) 80-15 T	•	•		•		•		•					•	•
SANITARY														
TLCB 15-1.5	•		•		•					•			•	•
TLCB 20-1.5M	•		•		•					•			•	•
TLCB 25-1.5	•		•		•					•			•	•
TLCB 15-3	•		•		•					•			•	•
TLCB 20-3M	•		•		•					•			•	•
TLCB 25-3	•		•		•					•			•	•
TLCB 15-4	•		•		•					•			•	•
TLCB 20-4M	•		•		•					•			•	•
TLCB 25-4	•		•		•					•			•	•
TLCB 25-4L	•		•		•					•			•	•
TLCB 15-6	•		•		•					•			•	•
TLCB 20-6M	•		•		•					•			•	•
TLCB 25-6L	•		•		•					•			•	•

* Non-freezing, non-condensing.

tlcflc-modelli-1-en_c_sc

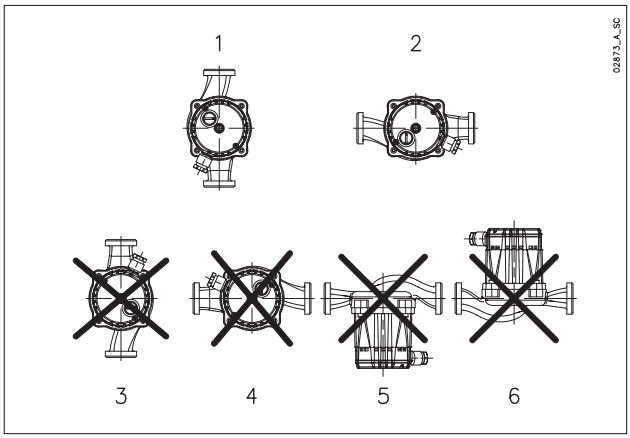
Product range chart table

TYPE	Version		Power supply		Pump coupling		Temperature of pumped liquid *						Ambient temperature	Protection class
	Single	Twin	Single-phase 230 V 50 Hz	Three-phase 400 V 50 Hz	Threaded	Flanged	-25°C ÷ +110°C	-15°C ÷ +120°C	-10°C ÷ +95°C	-10°C ÷ +110°C	-10°C ÷ +130°C	+15°C ÷ +90°C	Max 40°C	IP 44
LIGHT COMMERCIAL														
TLCHB 20-7L	•		•		•					•			•	•
TLCHB 25-7L	•		•		•					•			•	•
TLCHB 20-8L	•		•		•					•			•	•
TLCHB 25-8L	•		•		•					•			•	•
TLCHB 20-10L	•		•		•					•			•	•
TLCHB 25-10L	•		•		•					•			•	•
TLCHB 20-12L	•		•		•					•			•	•
TLCHB 25-12L	•		•		•					•			•	•
SOLAR														
TLCSOL 15-4	•		•		•						•		•	•
TLCSOL 25-4L	•		•		•						•		•	•
TLCSOL 15-6	•		•		•						•		•	•
TLCSOL 25-6L	•		•		•						•		•	•
COOLING														
TLCK 25-4L	•		•		•		•						•	•
TLCK 25-6L	•		•		•		•						•	•
COMMERCIAL ELECTRONIC														
EFLC (G) 40-9	•	•	•			•						•	•	•
EFLC (G) 40-11	•	•	•			•						•	•	•
EFLC (G) 50-12	•	•	•			•						•	•	•
EFLC (G) 65-12	•	•	•			•						•	•	•
EFLC (G) 80-7	•	•	•			•						•	•	•
HIGH EFFICIENCY DOMESTIC ELECTRONIC														
EA (EV) 15-4/130			•						•				•	•
EA (EV) 20-4/130			•						•				•	•
EA (EV) 25-4/130			•						•				•	•
EA (EV) 25-4/180			•						•				•	•
EA (EV) 32-4/180			•						•				•	•
EA (EV) 15-6/130			•						•				•	•
EA (EV) 20-6/130			•						•				•	•
EA (EV) 25-6/130			•						•				•	•
EA (EV) 25-6/180			•						•				•	•
EA (EV) 32-6/180			•						•				•	•
SANITARY ELECTRONIC														
EB (V) 15-1/65 (R) (U) (RU)			•						•				•	•
EB (V) 15-1/110 (R) (U) (RU)			•						•				•	•
EB 15-3/65			•						•				•	•
EB 15-3/110			•						•				•	•

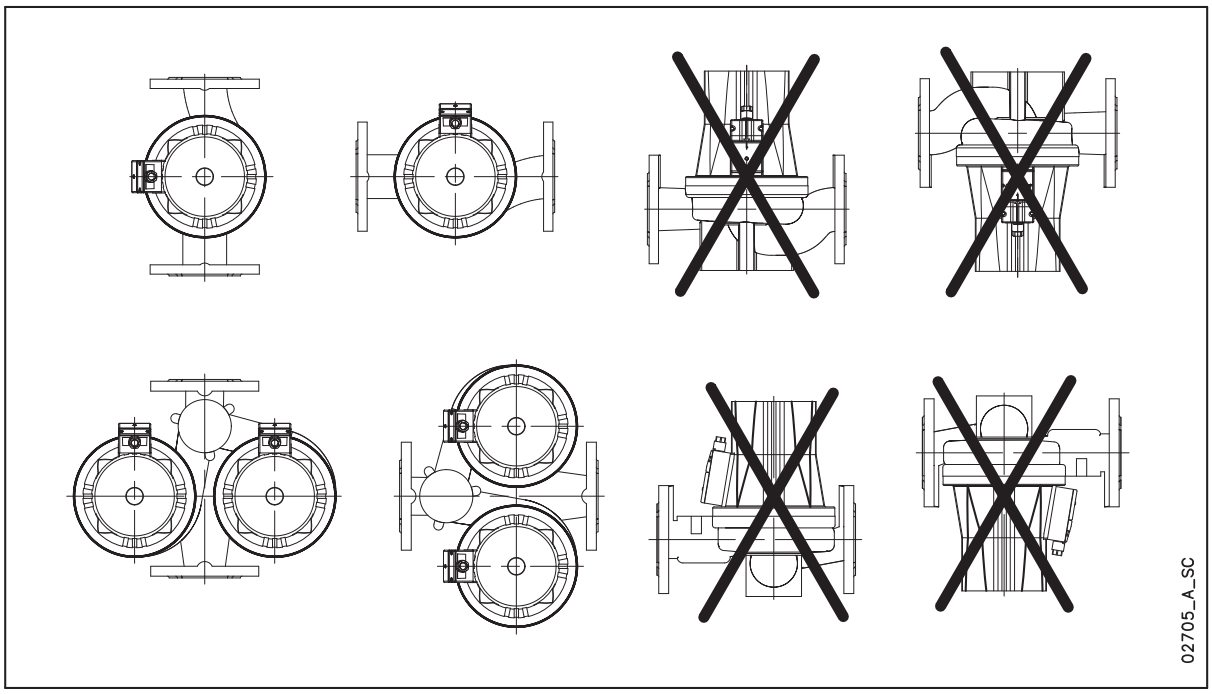
* Non-freezing, non-condensing.

tlcflc-modelli-2-en_d_sc

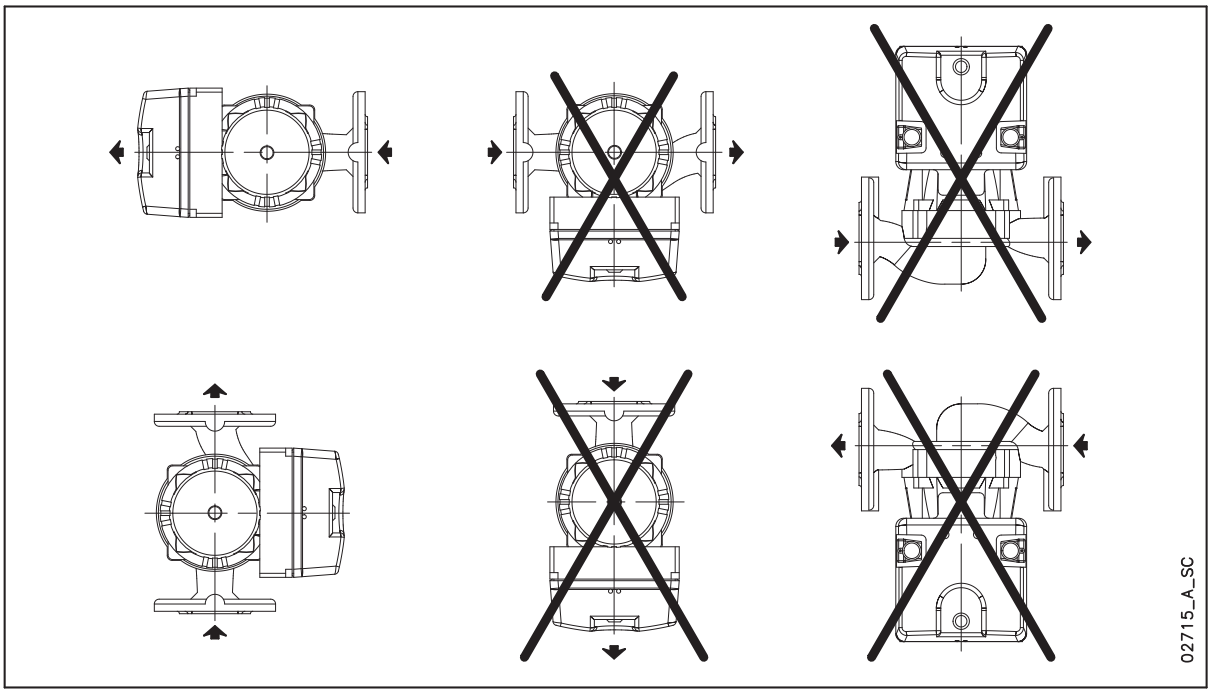
TLC SERIES
Installation positions



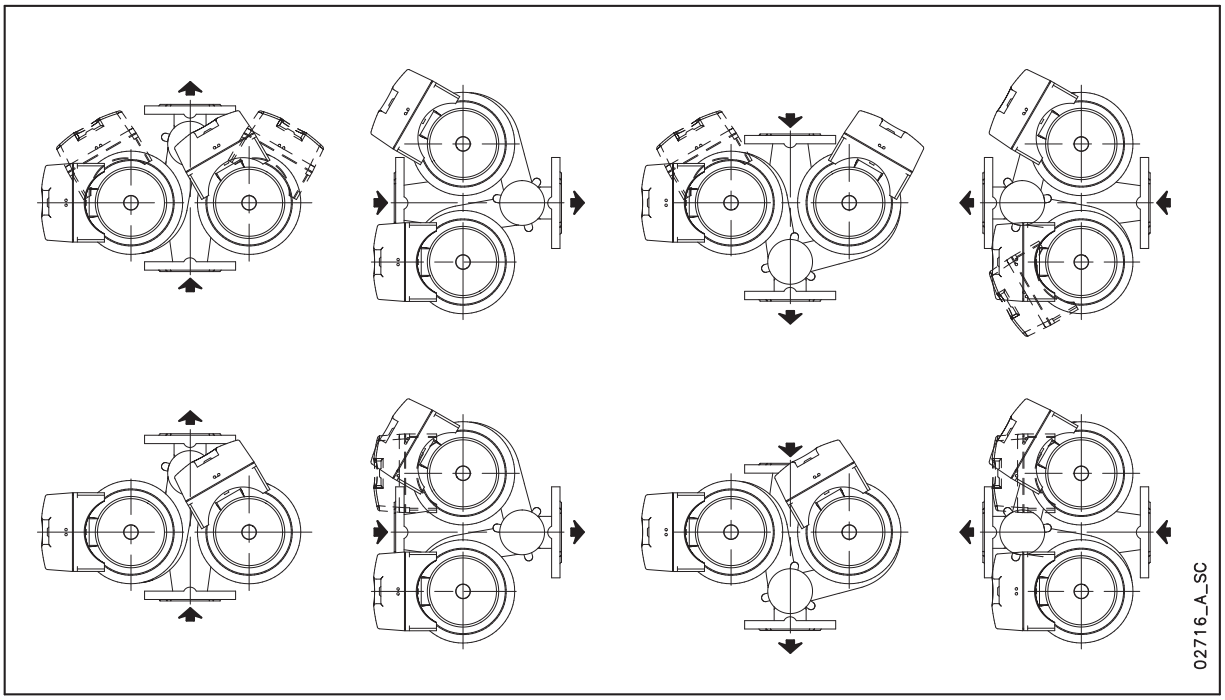
FLC, FLCG SERIES
Installation positions



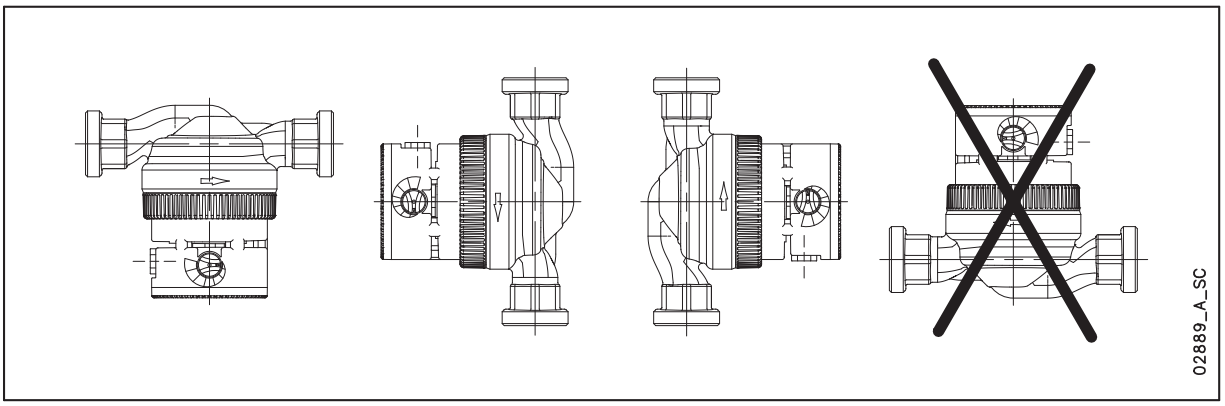
EFLC SERIES
Installation positions



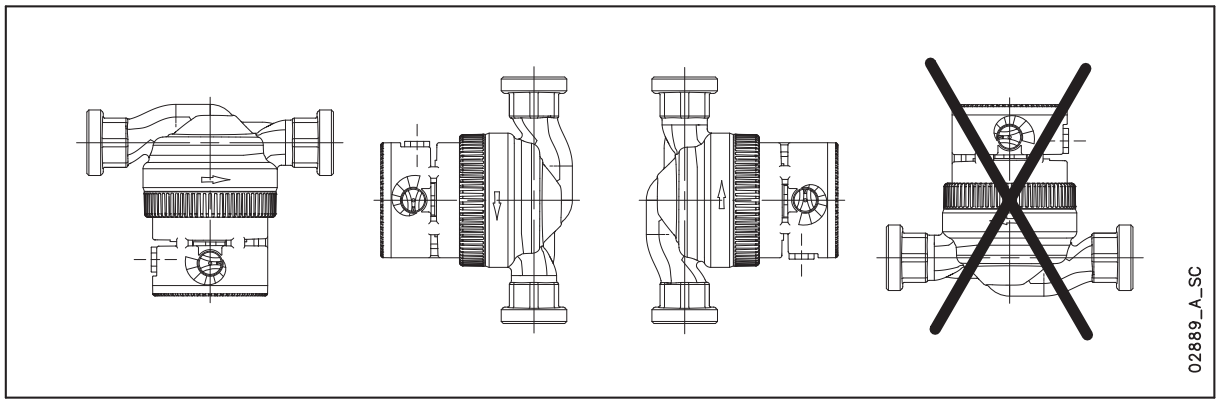
EFLCG SERIES
Installation positions



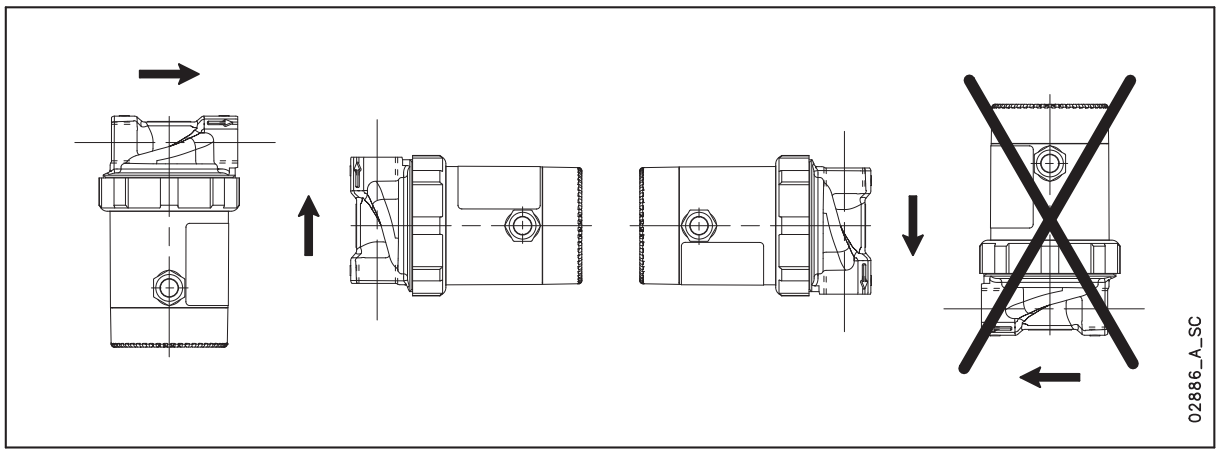
EA - EV (ECOCIRC) SERIES
Installation positions



EA - EV (ECOCIRC) SERIES
Installation positions



EB (V) (ECOCIRC) SERIES
Installation positions



FC-FCT Series

Centrifugal pumps with in-line suction and delivery flanges, single (FC) and twin (FCT) versions.
Pump body in cast iron and impeller in AISI 316* stainless steel. Designed to pump hot, cold and moderately aggressive liquids.

Models:
FCE-FCTE Close-coupled with special motor shaft extension.

FCS-FCTS With stub shaft and standard motor.

Specifications

Delivery: up to 190 m^3/h (2 poles)
up to 330 m^3/h (4 poles)
Head: up to 89 m (2 poles)
up to 35 m (4 poles)
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.25 kW to 22 kW
Maximum operating pressure:
10 bar PN10 ("E" versions)
16 bar PN16 ("S" versions)
Temperature of pumped liquid:
-10°C to +130°C ("E" versions)
-20°C to +140°C ("S" versions)
Insulation class: 155 (F)
Protection: IP55

* Check material table for availability

Materials

Pump body: Cast iron
Impeller: Stainless steel (for models FC40, 50, 65, 80-125, 80-160)
Cast iron for other sizes
Adapter: Aluminium or Cast iron
Mechanical seal:
Carbon/Ceramic/EPDM
Silicon-carbide/Carbon/EPDM
Elastomers: EPDM

Applications

Water supply

Heating, ventilation

Cooling and chilling

General industry

Heat recovery, auxiliary equipment

Available on request: version with Hydrovar frequency converter; FCS with efficiency class 1 motor; version with bronze impeller



For a complete list of technical information, consult www.lowara.com

List of FC SERIES 50 Hz models

FC-FCT (2 poles)

SIZE	kW	VERSION		
		FCEM FCTEM	FCE FCTE	FCS FCTS
40-125/07	0,75	•	•	•
40-125/11	1,1	•	•	•
40-160/15	1,5	•	•	•
40-160/22	2,2	•	•	•
40-200/30	3	–	–	•
40-200/40A	4	–	•	–
40-200/40	4	–	•	•
40-200/55	5,5	–	•	•
40-250/75	7,5	–	•	•
40-250/110	11	–	•	•
50-125/11	1,1	•	•	•
50-125/15	1,5	•	•	•
50-160/22	2,2	•	•	•
50-160/30	3	–	•	•
50-160/40	4	–	•	•
50-200/55	5,5	–	•	•
50-200/75	7,5	–	•	•
50-250/92	9,2	–	•	–
50-250/110A	11	–	–	•
50-250/110	11	–	•	•
50-250/150	15	–	•	•
65-125/22	2,2	•	•	•
65-125/30	3	–	•	•
65-125/40	4	–	•	•
65-160/55	5,5	–	•	•
65-160/75	7,5	–	•	•
65-200/92	9,2	–	•	–
65-200/110A	11	–	–	•
65-200/110	11	–	•	•
65-250/150	15	–	•	•
65-250/185	18,5	–	•	•
65-250/220	22	–	•	•
80-125/30	3	–	•	•
80-125/40	4	–	•	•
80-125/55	5,5	–	•	•
80-160/75	7,5	–	•	•
80-200/110	11	–	•	•
80-200/150	15	–	•	•
80-200/185	18,5	–	•	•
80-200/220	22	–	•	•
100-160/110	11	–	•	•
100-200/185	18,5	–	•	•
100-200/220	22	–	•	•

• = Available

fc_fce-fcs_2p50_b_tem

FC.4-FCT.4 (4 poles)

SIZE	kW	VERSION		
		FCE4 FCTE4	FCS4	FCTS4
40-125/02A	0,25	•	–	–
40-125/02	0,25	•	–	–
40-160/02	0,25	•	–	–
40-160/03	0,37	•	–	–
40-200/05	0,55	•	•	•
40-200/07	0,75	•	•	•
40-250/11	1,1	•	•	•
40-250/15	1,5	•	•	•
50-125/02	0,25	•	–	–
50-125/03	0,37	•	–	–
50-160/05	0,55	•	–	–
50-200/07	0,75	•	•	•
50-200/11	1,1	•	•	•
50-250/15	1,5	•	•	•
50-250/22	2,2	•	•	•
65-125/03	0,37	•	–	–
65-125/05	0,55	•	–	–
65-160/07	0,75	•	•	•
65-160/11	1,1	•	•	•
65-200/15	1,5	•	•	•
65-250/22	2,2	•	•	•
65-250/30	3	•	•	•
80-125/07	0,75	•	•	•
80-125/11	1,1	•	•	•
80-200/15	1,5	•	•	•
80-200/22	2,2	•	•	•
80-200/30	3	•	•	•
80-250/40	4	•	•	•
80-250/55	5,5	•	•	•
100-160/15	1,5	•	•	•
100-200/22	2,2	•	•	•
100-200/30	3	•	•	•
100-250/40	4	•	•	•
100-250/55	5,5	•	•	•
100-250/75	7,5	•	•	•
125-160/30	3	–	•	•
125-200/40	4	–	•	•
125-200/55	5,5	–	•	•
125-250/75	7,5	–	•	•
125-250/110	11	–	•	•
125-315/150	15	–	•	–
125-315/185	18,5	–	•	–
125-315/220	22	–	•	–
150-200/55	5,5	–	•	•
150-200/75	7,5	–	•	•
150-250/110	11	–	•	•
150-250/150	15	–	•	•
150-250/185	18,5	–	•	•

• = Available

fc_fce4-fcs4_4p50_b_tem

FCE-FCS SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																			
			l/min 0	100	200	350	375	400	600	700	800	850	1000	1200	1300	1500	1600	1750	1950	2500	3000
			m^3/h 0	6	12	21	22,5	24	36	42	48	51	60	72	78	90	96	105	117	150	180
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																			
40-125/07	0,75	1	17,1	15,1	11,8	3,6																
40-125/11	1,1	1,5	22,6	20,2	16,7	8,8	7,0															
40-160/15	1,5	2	27,3	24,7	20,9	13,1	11,3	9,3														
40-160/22	2,2	3	35,3	32,6	28,8	21,1	19,5	17,7														
40-200/*	*	*	42,5	38,9	34,0																	
40-200/40	4	5,5	51,0	46,9	41,7	30,6																
40-200/55	5,5	7,5	62,0	57,6	51,3	39,6	37,1															
40-250/75	7,5	10	75,4	71,1	65,0	52,9	50,3															
40-250/110	11	15	85,2	80,8	74,8	62,3	59,6	56,6														
50-125/11/A	1,1	1,5	15,3		13,5	11,1	10,6	10,1	5,4													
50-125/15/A	1,5	2	19,1		17,5	14,9	14,4	13,8	8,6	5,5												
50-160/22	2,2	3	26,1		23,9	21,1	20,5	20,0	14,7	11,6												
50-160/30	3	4	32,8		30,6	27,2	26,5	25,9	19,9	16,6	13,1											
50-160/40	4	5,5	38,1		36,1	32,9	32,3	31,6	25,1	21,3	17,3	15,3										
50-200/55	5,5	7,5	47,0		43,5	39,6	38,8	38,0	30,3													
50-200/75	7,5	10	56,0		52,0	48,2	47,5	46,7	39,4	34,9												
50-250/**	**	**	63,2		59,4	55,3	54,5	53,8	46,7	42,6	38,0											
50-250/110	11	15	69,4		65,3	61,3	60,6	59,8	53,2	49,4	45,0	42,5										
50-250/150	15	20	83,0		79,2	75,1	74,4	73,6	66,1	61,6	56,6	53,9										
65-125/22	2,2	3	18,8					16,4	14,3	13,0	11,4	10,6	7,9									
65-125/30	3	4	22,9					20,3	18,1	16,7	15,2	14,3	11,6									
65-125/40	4	5,5	26,6					24,4	22,4	21,1	19,7	18,9	16,3	12,1								
65-160/55	5,5	7,5	35,1					32,5	30,1	28,7	27,1	26,3	23,5	19,1								
65-160/75	7,5	10	42,4					40,0	37,4	35,8	34,0	33,1	29,9	25,2	22,5							
65-200/**	**	**	53,0					47,6	44,1	42,2	40,1	39,0	35,2	28,4	24,0							
65-200/110	11	15	61,0					55,2	51,3	49,3	47,1	45,9	42,1	35,8	31,8							
65-250/150	15	20	70,0					66,3	63,0	61,1	58,9	57,8	54,2	48,9	46,1	40,0						
65-250/185	18,5	25	80,0					75,2	71,8	69,9	67,7	66,6	63,0	57,6	54,6	47,9						
65-250/220	22	30	89,0					84,3	80,7	78,7	76,5	75,3	71,6	66,0	63,0	56,3	52,6					
80-125/30	3	4	15,5						14,5	14,1	13,6	13,3	12,3	10,7	9,9							
80-125/40	4	5,5	19,0						18,0	17,6	17,0	16,8	15,8	14,2	13,3	11,5						
80-125/55	5,5	7,5	23,0						21,5	21,0	20,5	20,2	19,3	18,0	17,2	15,5	14,5					
80-160/75	7,5	10	28,0						26,5	26,1	25,6	25,4	24,7	23,6	23,0	21,6	20,8	19,5				
80-200/110	11	15	41,0						37,0	36,2	35,2	34,7	33,2	30,7	29,3	26,2	24,5	21,5				
80-200/150	15	20	49,4						46,3	45,6	44,8	44,3	43,0	41,0	39,9	37,5	36,2	33,9	30,5			
80-200/185	18,5	25	56,9						53,4	52,6	51,7	51,2	49,8	47,9	46,9	44,7	43,5	41,4	38,1			
80-200/220	22	30	65,2						61,3	60,4	59,5	59,0	57,6	55,5	54,5	52,2	51,0	49,1	46,0			
100-160/110	11	15	29,0										28,0	27,3	26,9	25,9	25,4	24,6	23,4	19,5		
100-200/185	18,5	25	45,0											39,5	38,8	37,5	36,8	35,9	34,5	30,4	25,0	
100-200/220	22	30	53,0											48,0	47,3	46,0	45,3	44,3	42,9	38,7	33,6	

* FCE40-200/40A : 4 (kW) - 5.5 (HP)

** FCE50-250/92 : 9.2 (kW) - 12.5 (HP)

FCE65-200/92 : 9.2 (kW) - 12.5 (HP)

FCS40-200/30 : 3 (kW) - 4 (HP)

FCS50-250/110A : 11 (kW) - 15 (HP)

FCS65-200/110A : 11 (kW) - 15 (HP)

fce-fcs-2p50-en_d_th

Performances according to ISO 9906 - Annex A

FCE4-FCS4 SERIES
Hydraulic performance table at 50 Hz, 4 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																			
			l/min 0	50	100	150	175	200	300	350	400	500	600	650	750	900	1100	1200	1500	1800	2000	2500
			m^3/h 0	3	6	9	10,5	12	18	21	24	30	36	39	45	54	66	72	90	108	120	150
	kW	HP	H =TOTAL HEAD METRES COLUMN OF WATER																			
40-125/02A *	0,25	0,33	4,7	4,1	3,3	2,0																
40-125/02 *	0,25	0,33	5,9	5,3	4,5	3,3	2,5															
40-160/02 *	0,25	0,33	7,1	6,4	5,5	4,3	3,6	2,6														
40-160/03 *	0,37	0,5	8,9	8,1	7,2	6,0	5,2	4,4														
40-200/05	0,55	0,75	12,4	11,4	10,1	8,2	7,1															
40-200/07	0,75	1	14,2	13,2	11,9	10,1	9,1	7,9														
40-250/11	1,1	1,5	18,6	17,3	15,7	13,9	12,8	11,6														
40-250/15	1,5	2	21,0	19,8	18,2	16,4	15,4	14,3														
50-125/02 *	0,25	0,33	6,2		5,5	5,0	4,6	4,3	2,7	1,8												
50-125/03 *	0,37	0,5	8,0		7,4	6,8	6,5	6,1	4,4	3,5	2,5											
50-160/05 *	0,55	0,75	9,4		8,8	8,2	7,9	7,5	5,9	4,9	3,9											
50-200/07	0,75	1	11,4		10,5	9,9	9,5	9,1	7,1	5,6	3,7											
50-200/11	1,1	1,5	13,6		12,6	12,0	11,6	11,2	9,2	7,8	5,9											
50-250/15	1,5	2	17,0		15,9	15,2	14,8	14,4	12,5	11,4	10,1	7,0										
50-250/22	2,2	3	20,2		18,9	18,2	17,8	17,4	15,5	14,3	13,0	10,0										
65-125/03 *	0,37	0,5	5,6					4,9	4,3	3,9	3,5	2,6										
65-125/05 *	0,55	0,75	6,7					5,9	5,4	5,1	4,7	3,9	2,8	2,2								
65-160/07	0,75	1	8,6					7,8	7,2	6,8	6,4	5,4	4,3	3,7	2,4							
65-160/11	1,1	1,5	10,4					9,7	9,0	8,6	8,2	7,2	5,9	5,3	3,8							
65-200/15	1,5	2	14,7					13,2	12,1	11,6	11,0	9,7	8,1	7,0	4,2							
65-250/22	2,2	3	19,0					17,6	16,6	16,0	15,4	14,1	12,7	11,9	10,1	6,5						
65-250/30	3	4	21,4					20,1	19,1	18,5	17,9	16,6	15,2	14,4	12,6	9,4						
80-125/07	0,75	1	5,6						5,2	5,1	5,0	4,6	4,3	4,1	3,6	2,8	1,6					
80-125/11	1,1	1,5	6,8						6,4	6,3	6,2	6,0	5,7	5,5	5,1	4,3	3,1	2,5				
80-200/15	1,5	2	10,5						9,6	9,4	9,2	8,7	8,1	7,8	7,1	5,8	3,3					
80-200/22	2,2	3	13,7						12,7	12,5	12,3	11,9	11,3	11,0	10,3	9,0	6,8	5,4				
80-200/30	3	4	15,8						14,7	14,5	14,3	13,8	13,3	13,0	12,4	11,2	9,3	8,1				
80-250/40	4	5,5	19,9						18,7	18,5	18,2	17,7	17,0	16,7	15,9	14,6	12,5	11,2				
80-250/55	5,5	7,5	23,2						22,0	21,8	21,5	21,0	20,3	20,0	19,3	18,0	16,0	14,8	10,4			
100-160/15	1,5	2	7,8									7,4	7,2	7,1	6,9	6,5	6,0	5,6	4,5	3,0		
100-200/22	2,2	3	10,5										9,3	9,2	8,9	8,3	7,5	7,1	5,4	3,5	2,0	
100-200/30	3	4	12,8										11,5	11,4	11,1	10,6	9,8	9,3	7,8	5,8	4,3	
100-250/40	4	5,5	17,0										15,5	15,3	14,9	14,3	13,4	12,9	11,2	9,2	7,8	
100-250/55	5,5	7,5	20,5										19,0	18,8	18,4	17,8	17,0	16,5	14,9	13,1	11,8	8,0
100-250/75	7,5	10	24,0										22,5	22,3	22,0	21,5	20,7	20,3	18,8	17,1	15,8	11,9

* FCE4 VERSION ONLY

fce4-fcs4-4p50-en_f_th

Performances according to ISO 9906 - Annex A

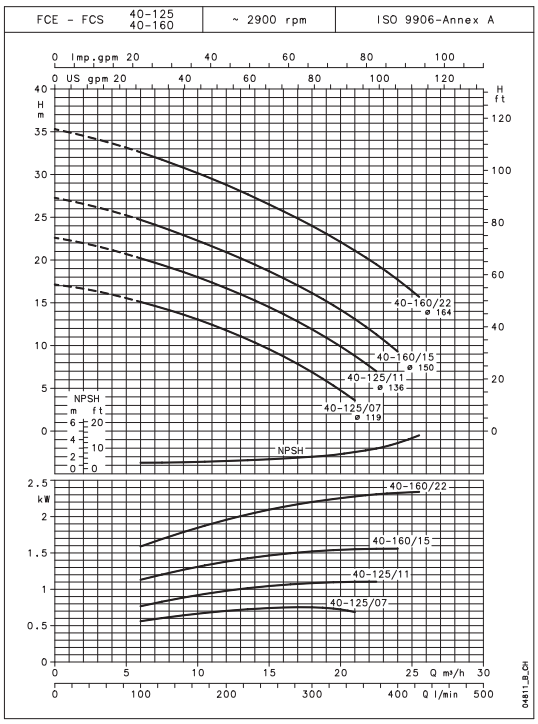
FCS4 SERIES
Hydraulic performance table at 50 Hz, 4 poles

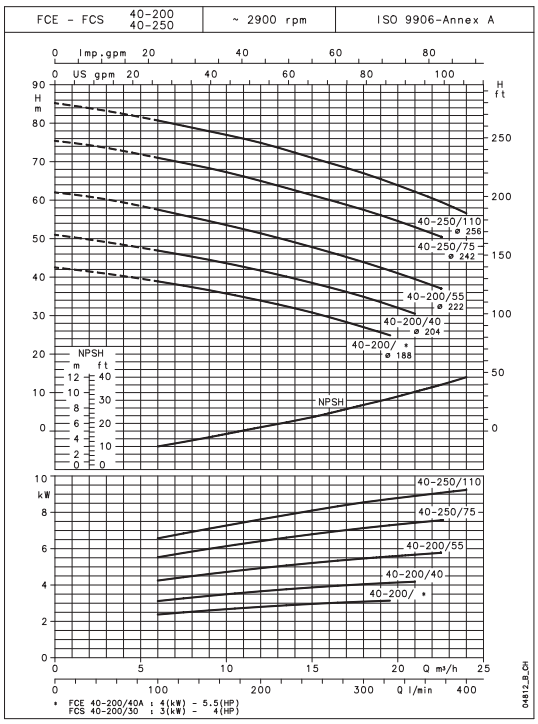
PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	1000	1083	1167	1333	1500	1667	2000	2333	2667	3000	3333	3667	4167	4667	5000	5333	5500
			m^3/h 0	60	65	70	80	90	100	120	140	160	180	200	220	250	280	300	320	330
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																	
125-160/30	3	4	10,5	9,2	9,0	8,8	8,3	7,9	7,4	6,3	5,2	3,7	2,0							
125-200/40	4	5,5	12,7	11,5	11,3	11,0	10,5	9,9	9,3	7,7	5,7	3,4								
125-200/55	5,5	7,5	15,6	14,6	14,4	14,3	13,9	13,4	12,9	11,6	10,0	8,0	5,5							
125-250/75	7,5	10	20,5	19,1	18,9	18,6	18,1	17,4	16,6	14,7	12,4	9,6	6,7							
125-250/110	11	15	26,1	24,8	24,6	24,4	23,9	23,4	22,7	21,1	19,2	16,8	14,0	10,7	7,1					
125-315/150	15	20	27,0	26,0	25,9	25,7	25,4	25,0	24,6	23,5	22,1	20,4	18,3	15,9	12,9	7,8				
125-315/185	18,5	25	31,0	30,0	29,9	29,8	29,5	29,2	28,9	28,0	26,7	25,1	23,1	20,7	18,0	13,3	8,0			
125-315/220	22	30	35,0	34,0	33,9	33,8	33,6	33,3	32,9	32,1	30,9	29,5	27,6	25,5	22,9	18,4	12,9	8,8		
150-200/55	5,5	7,5	12,0	10,5	10,4	10,2	9,9	9,6	9,3	8,6	7,9	7,2	6,4	5,7	4,8	3,2				
150-200/75	7,5	10	16,0	14,8	14,6	14,4	14,1	13,7	13,4	12,6	11,9	11,1	10,3	9,5	8,6	6,9	4,7			
150-250/110	11	15	18,4					17,8	17,6	17,0	16,3	15,5	14,6	13,5	12,3	10,2	7,7	5,8		
150-250/150	15	20	22,4					22,0	21,8	21,3	20,7	20,0	19,3	18,4	17,4	15,6	13,3	11,5	9,5	8,3
150-250/185	18,5	25	25,1					24,7	24,6	24,1	23,6	23,0	22,2	21,3	20,3	18,5	16,4	14,7	13,0	12,0

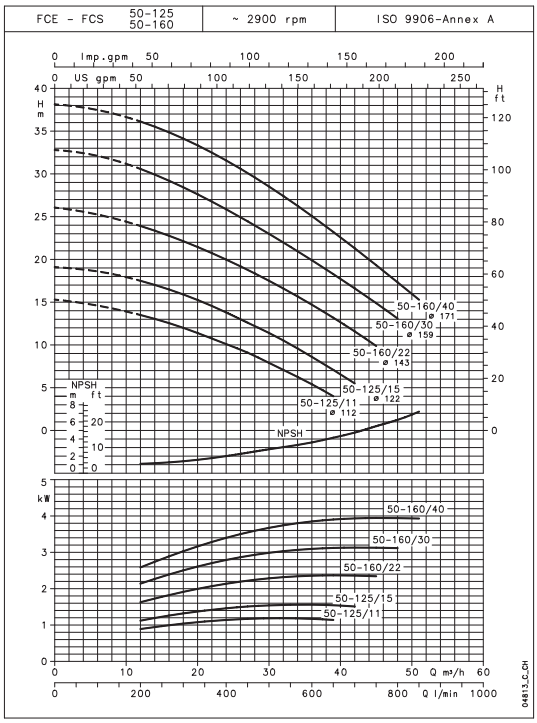
Performances according to ISO 9906 - Annex A

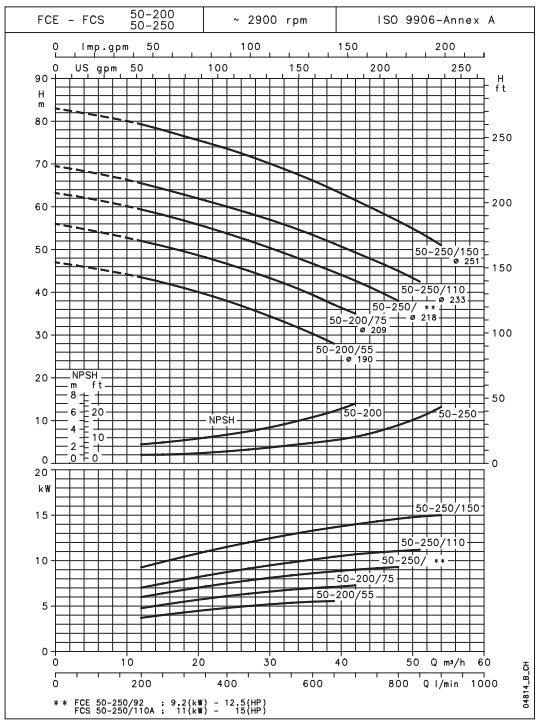
fcs4-4p50-en_d_th

FCE-FCS SERIES
Operating characteristics at 50 Hz, 2 poles





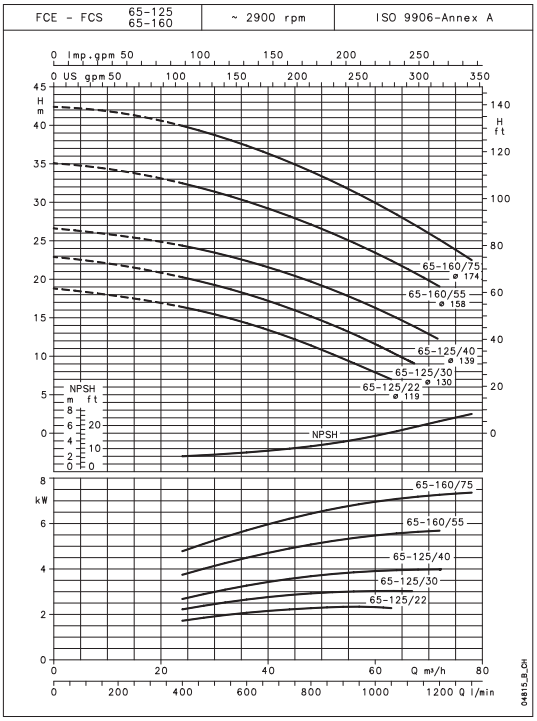


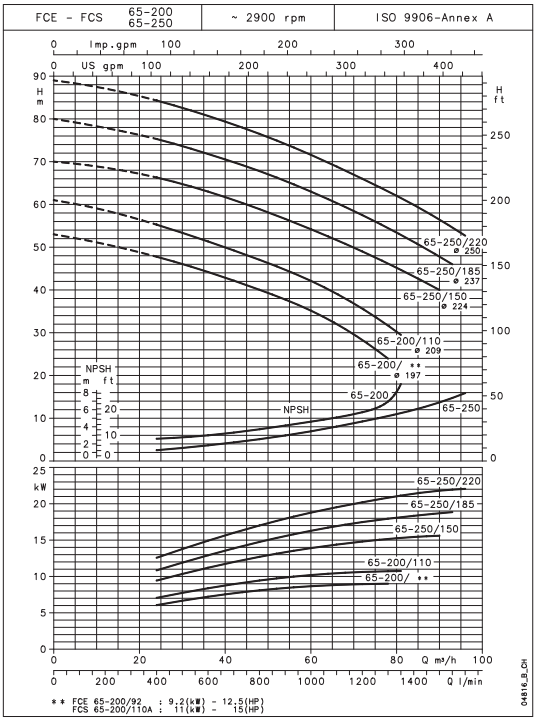


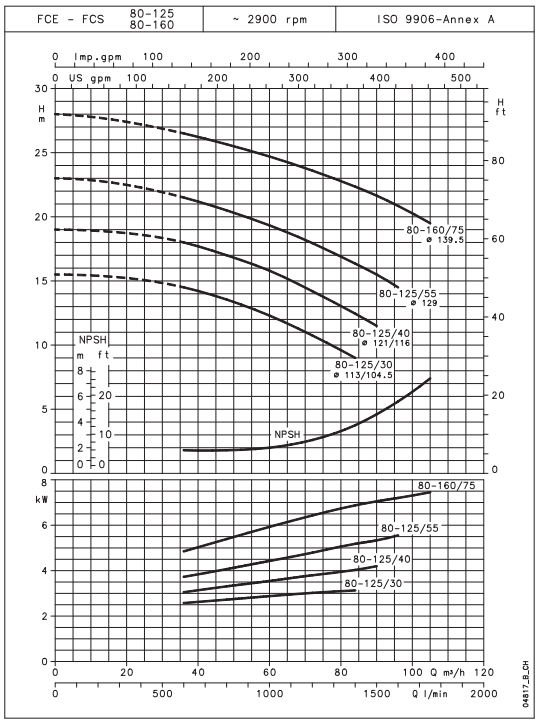
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

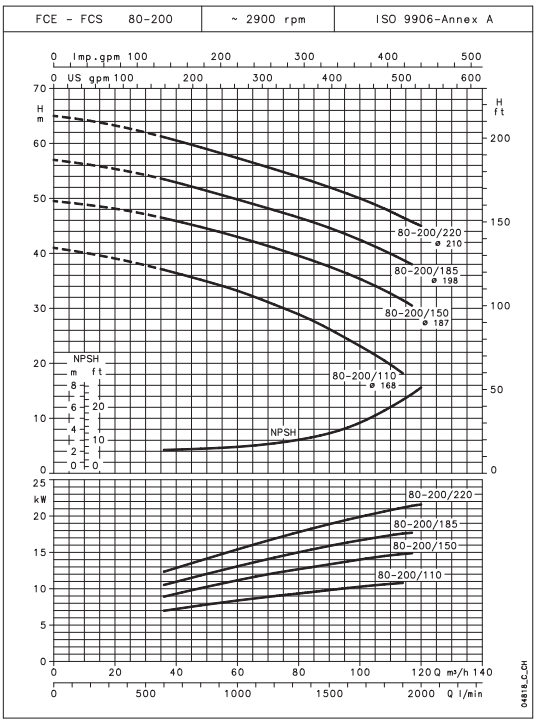
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCE-FCS SERIES
Operating characteristics at 50 Hz, 2 poles





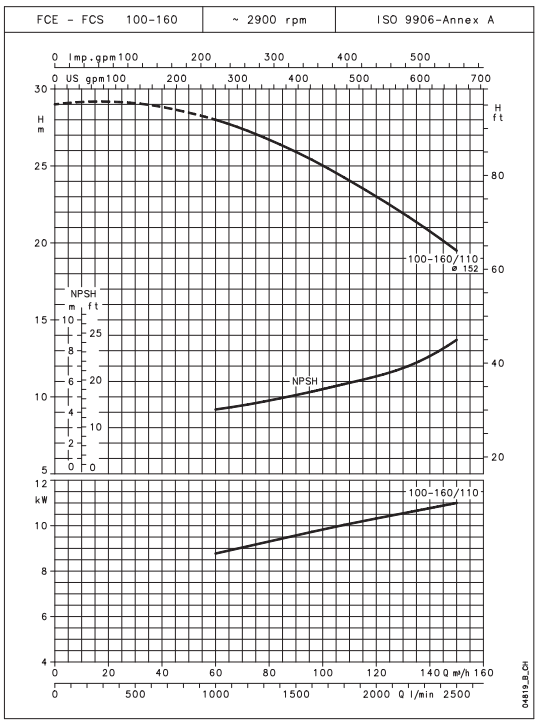


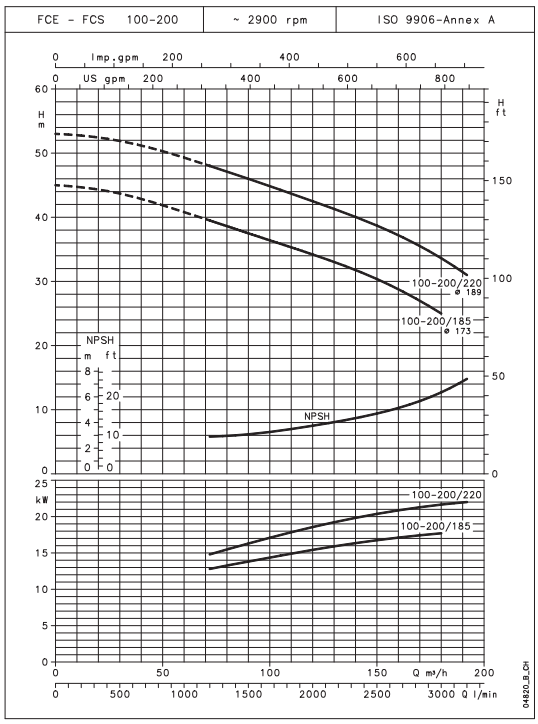


These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

FCE-FCS SERIES
Operating characteristics at 50 Hz, 2 poles



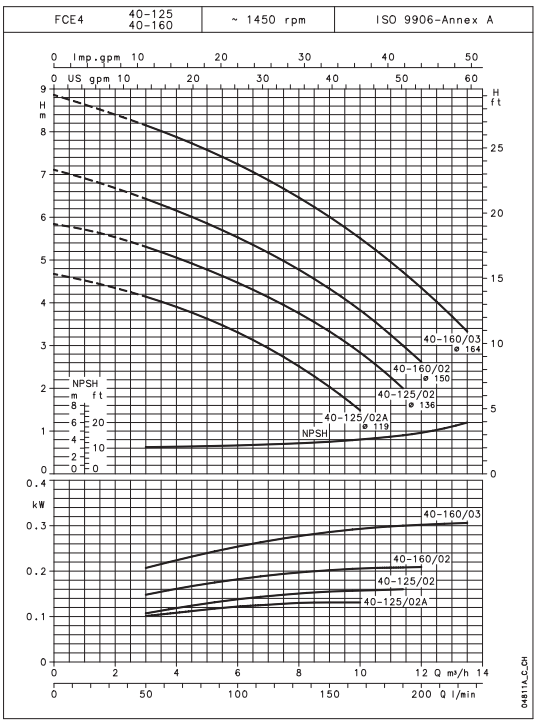


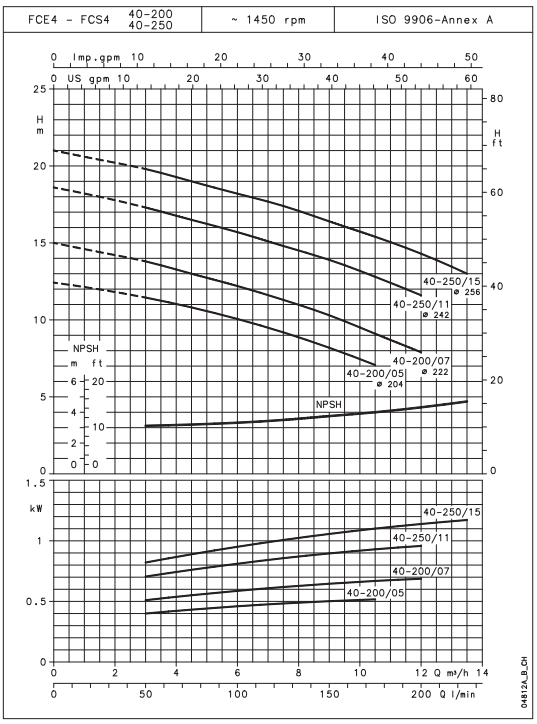


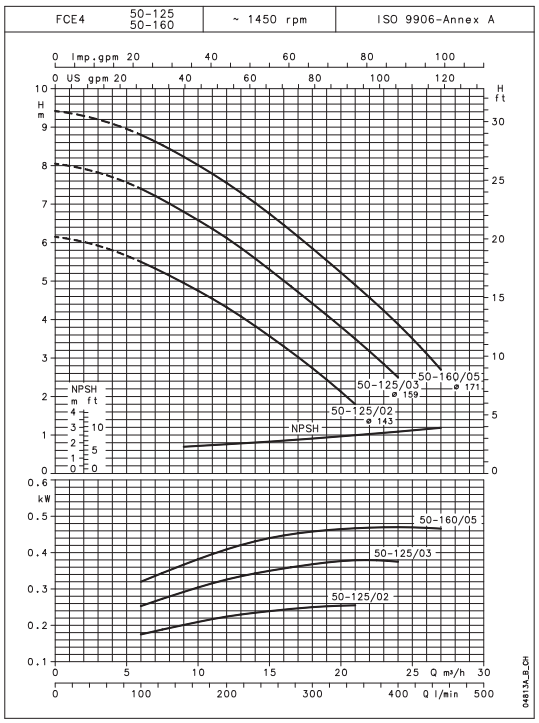
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

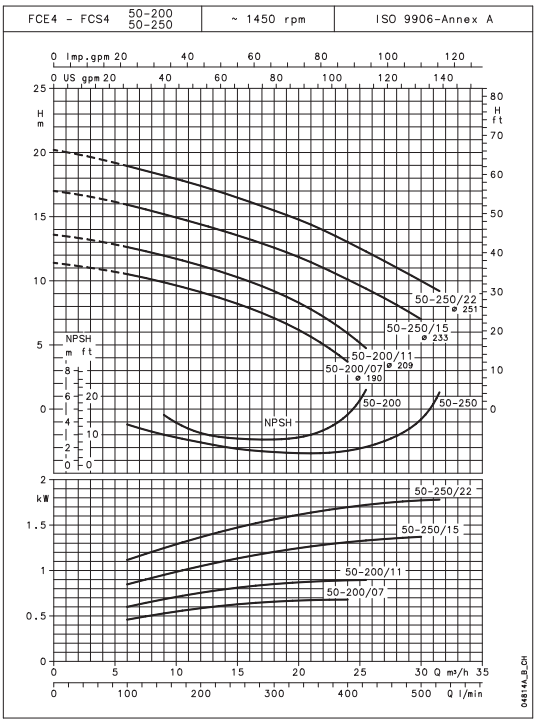
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCE4-FCS4 SERIES
Operating characteristics at 50 Hz, 4 poles





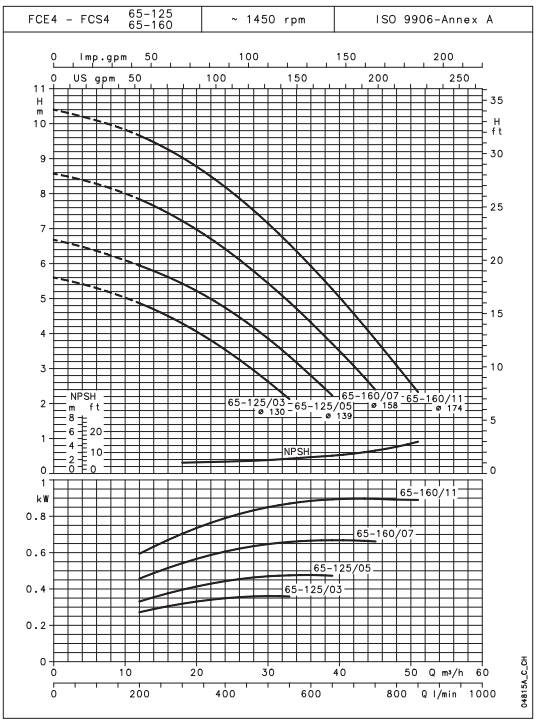


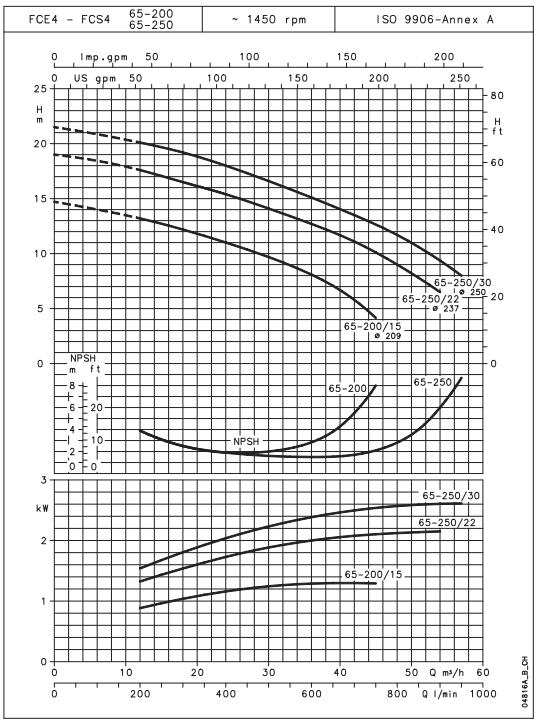


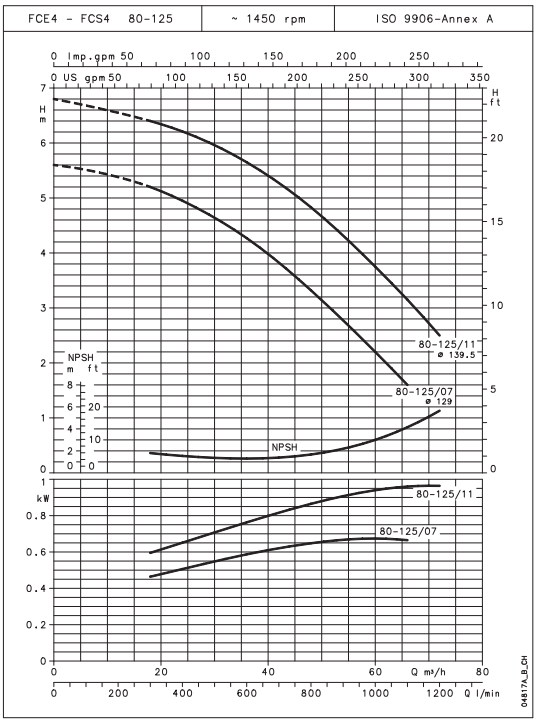
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

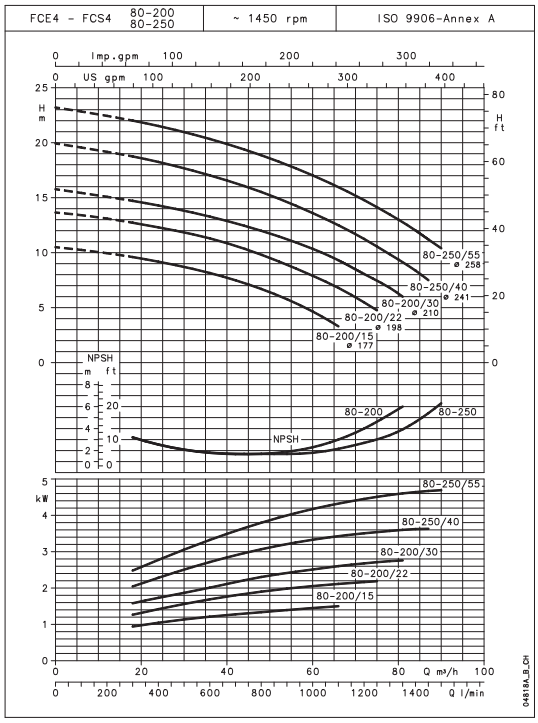
These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

FCE4-FCS4 SERIES
Operating characteristics at 50 Hz, 4 poles





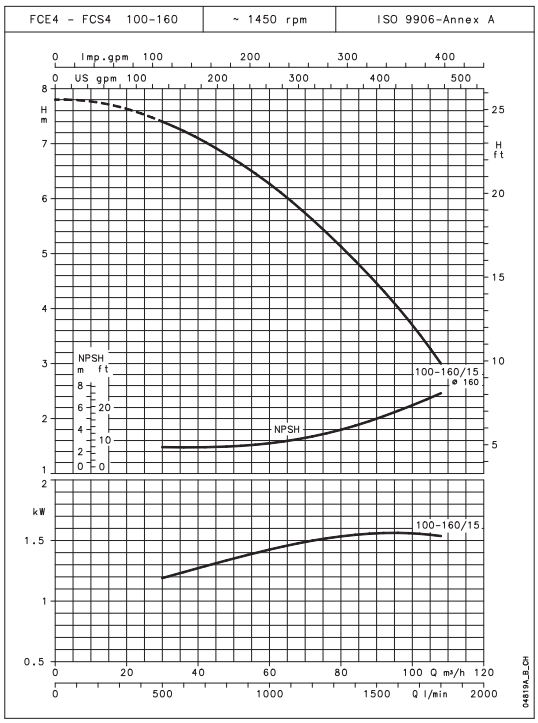


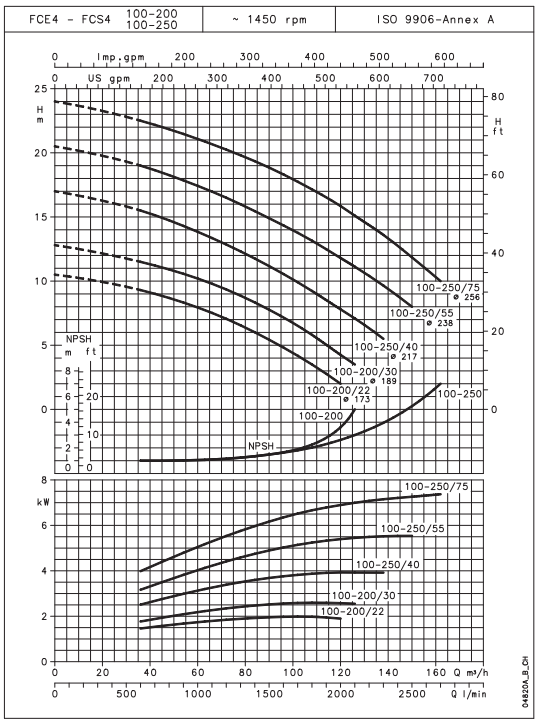


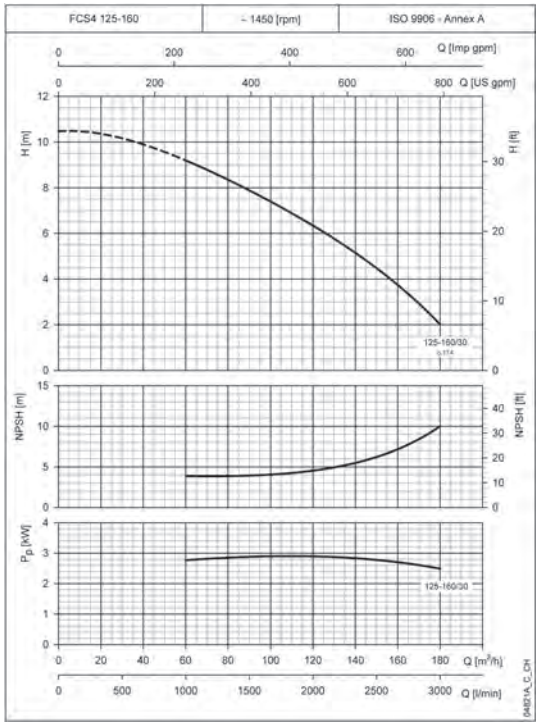
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

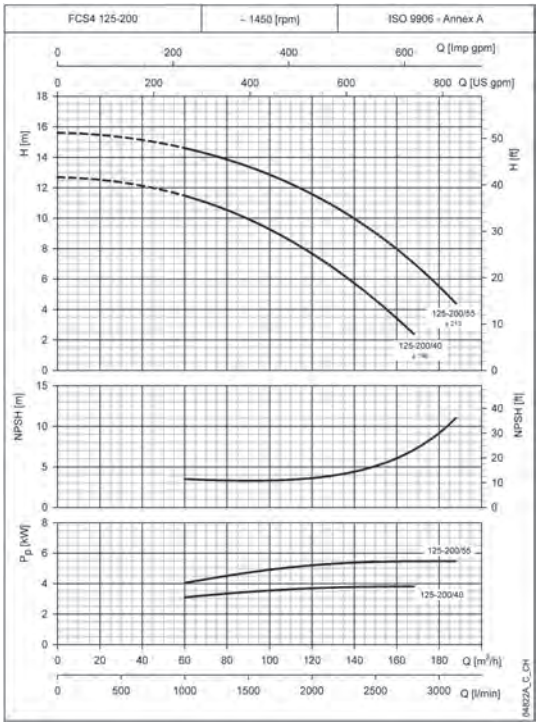
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCE4-FCS4 SERIES
Operating characteristics at 50 Hz, 4 poles





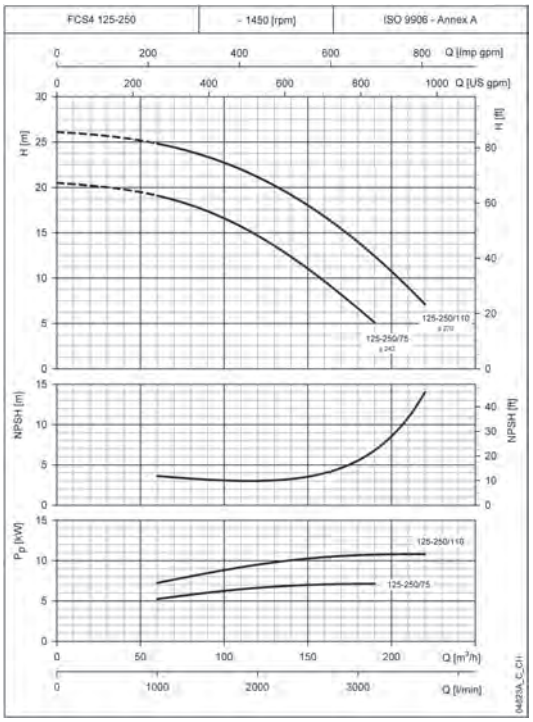


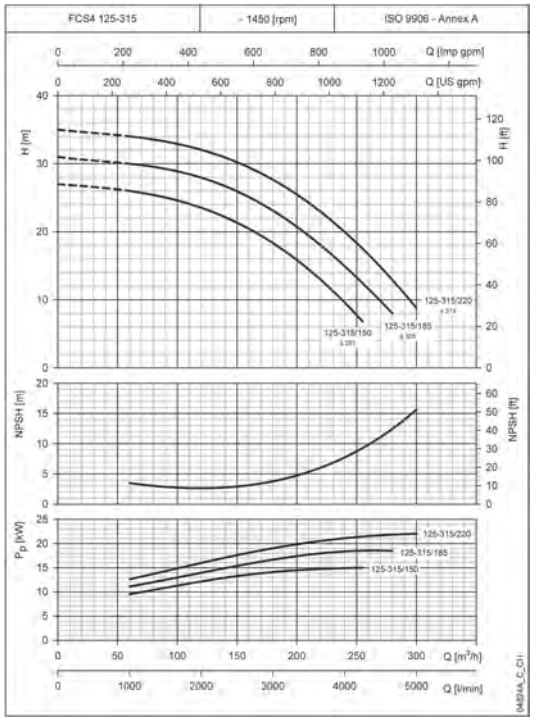


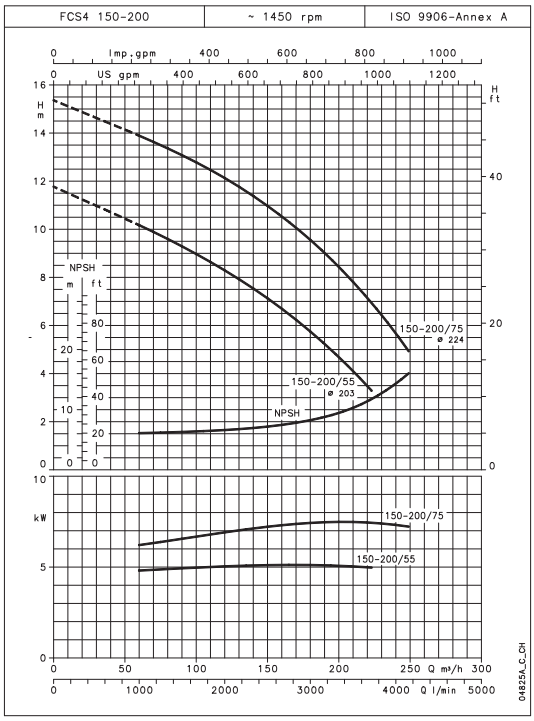
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

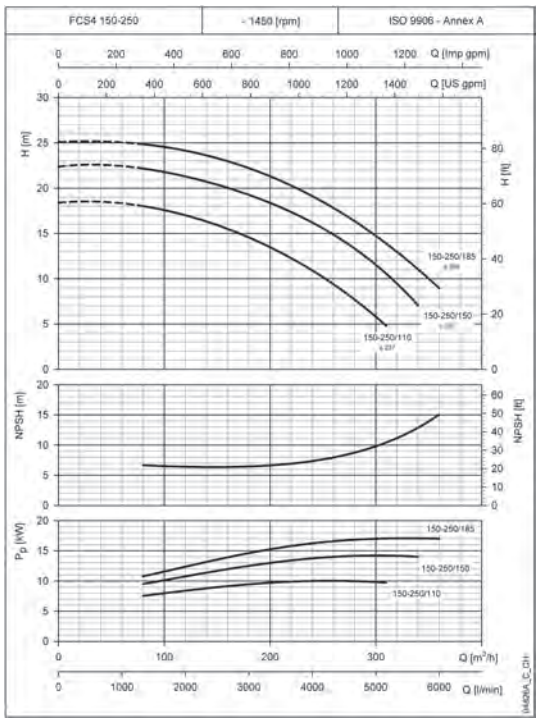
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCS4 SERIES
Operating characteristics at 50 Hz, 4 poles









These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTE-FCTS SERIES (SINGLE OPERATION)
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	100	200	300	350	400	600	700	900	1000	1200	1300	1400	1600	1750	2000	2500	3000
			m^3/h 0	6	12	18	21	24	36	42	54	60	72	78	84	96	105	120	150	180
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)																	
40-125/07	0,75	1	17,9	16,0	12,5	7,4	4,3													
40-125/11	1,1	1,5	22,6	20,4	16,7	11,5	8,3													
40-160/15	1,5	2	28,2	26,0	22,3	17,2	14,1	10,6												
40-160/22	2,2	3	35,3	33,4	29,5	24,0	20,8	17,4												
40-200/ *	*	*	43,2	39,3	33,9	27,1														
40-200/40	4	5,5	52,4	48,8	43,7	37,0	33,1													
40-200/55	5,5	7,5	61,0	57,4	52,1	45,3	41,4													
40-250/75	7,5	10	75,7	71,4	66,1	59,4	55,3													
40-250/110	11	15	86,2	82,5	76,9	69,7	65,4	60,7												
50-125/11	1,1	1,5	14,4		13,2	11,6	10,5	9,4	4,2											
50-125/15	1,5	2	18,4		17,6	15,9	14,8	13,6	7,9	4,8										
50-160/22	2,2	3	26,2		24,4	22,4	21,3	19,9	13,7	10,1										
50-160/30	3	4	33,1		30,3	28,3	27,1	25,7	19,3	15,4										
50-160/40	4	5,5	39,1		36,6	34,5	33,3	31,9	25,0	20,7										
50-200/55	5,5	7,5	47,9		44,9	42,6	41,2	39,7	31,7											
50-200/75	7,5	10	57,4		54,3	51,9	50,4	48,8	40,5	35,1										
50-250/**	**	**	64,4		60,9	58,7	57,4	56,1	49,2	44,8										
50-250/110	11	15	75,0		71,3	69,0	67,7	66,2	59,2	54,9										
50-250/150	15	20	87,4		83,9	81,6	80,2	78,7	71,5	67,1	56,3									
65-125/22	2,2	3	17,8					16,3	13,9	12,3	8,3	5,9								
65-125/30	3	4	21,8					20,3	17,9	16,3	12,3	10,0								
65-125/40	4	5,5	25,7					24,6	22,5	21,1	17,3	15,1	9,6							
65-160/55	5,5	7,5	34,1					32,8	30,6	29,1	25,2	22,9	17,4							
65-160/75	7,5	10	41,6					39,3	36,7	34,9	30,8	28,3	22,7	19,6						
65-200/**	**	**	52,0					48,7	45,8	43,9	38,9	35,8	28,1	23,4						
65-200/110	11	15	58,8					54,3	51,1	49,1	44,0	40,8	32,7	27,8						
65-250/150	15	20	69,8					65,5	62,7	61,1	56,9	54,4	48,1	44,4	40,1					
65-250/185	18,5	25	78,6					73,7	70,8	69,1	65,0	62,5	56,5	52,9	48,8					
65-250/220	22	30	86,8					82,9	80,1	78,3	74,1	71,5	65,5	62,0	58,1	49,0				
80-125/30	3	4	15,8						14,4	13,8	12,2	11,3	9,3	8,2	7,1					
80-125/40	4	5,5	19,0						17,8	17,3	15,9	15,1	13,3	12,3	11,2					
80-125/55	5,5	7,5	23,6						22,3	21,8	20,7	20,0	18,3	17,4	16,4	14,0				
80-160/75	7,5	10	28,2						26,7	26,3	25,4	24,9	23,5	22,7	21,8	19,7	17,8			
80-200/110	11	15	40,7						38,1	37,5	35,9	35,0	32,9	31,7	30,4	27,5	25,0			
80-200/150	15	20	51,1						48,0	47,3	45,7	44,7	42,6	41,5	40,2	37,3	34,8			
80-200/185	18,5	25	57,2						54,0	53,3	51,8	50,9	49,0	47,8	46,6	43,8	41,4			
80-200/220	22	30	63,9						60,9	60,3	58,8	58,0	56,1	55,0	53,8	51,0	48,6	43,8		
100-160/110	11	15	29,0									27,6	26,8	26,3	25,7	24,5	23,4	21,4	16,5	
100-200/185	18,5	25	39,8										37,9	37,5	37,0	36,0	35,2	33,5	29,5	24,5
100-200/220	22	30	47,5										45,3	44,9	44,4	43,4	42,5	40,8	36,7	31,6

* FCTE 40-200/40A : 4 [kW] - 5.5 [HP] , FCTS 40-200/30 : 3 [kW] - 4 [HP]

fcte-fcts-2p50S_c_th

** FCTE 50-250/92 : 9.2 [kW] - 12.5 [HP] , FCTS 50-250/110A : 11 [kW] - 15 [HP]

FCTE 65-200/92 : 9.2 [kW] - 12.5 [HP] , FCTS 65-200/110A : 11 [kW] - 15 [HP]

Performance according to ISO standards 9906 - Annex A.

FCTE-FCTS SERIES (PARALLEL OPERATION)
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	200	400	600	700	800	1000	1200	1600	1800	2000	2200	2400	2800	3200	3500	4250	5550
	2 x kW	2 x HP	m^3/h 0	12	24	36	42	48	60	72	96	108	120	132	144	168	192	210	255	333
			H = TOTAL HEAD IN COLUMN OF WATER (METRES)																	
40-125/07	0,75	1	17,9	15,9	11,7	5,6														
40-125/11	1,1	1,5	23,0	20,5	16,2	10,0	6,3													
40-160/15	1,5	2	28,4	26,0	21,6	15,4	11,7													
40-160/22	2,2	3	35,3	33,3	28,9	22,3	18,4													
40-200/ *	*	*	43,4	39,2	33,3	25,6														
40-200/40	4	5,5	52,5	48,5	42,8	35,3														
40-200/55	5,5	7,5	61,2	57,5	51,5	43,6	39,0													
40-250/75	7,5	10	75,1	69,5	62,8	54,6	49,9													
40-250/110	11	15	86,8	83,0	76,8	68,5	63,6													
50-125/11	1,1	1,5	14,2		12,7	10,6	9,3	7,8	4,4											
50-125/15	1,5	2	18,4		17,1	15,0	13,6	12,1	8,6	4,6										
50-160/22	2,2	3	26,4		24,0	21,6	20,1	18,5	14,8	10,4										
50-160/30	3	4	33,3		30,1	27,5	26,0	24,3	20,4	15,8										
50-160/40	4	5,5	39,5		36,8	34,1	32,5	30,7	26,5	21,6										
50-200/55	5,5	7,5	47,6		44,2	41,4	39,6	37,7	33,2											
50-200/75	7,5	10	56,9		53,3	50,4	48,6	46,6	42,0	36,4										
50-250/**	**	**	64,6		61,0	58,3	56,7	54,8	50,6	45,6										
50-250/110	11	15	75,1		71,2	68,4	66,7	64,9	60,8	55,9										
50-250/150	15	20	87,3		83,5	80,7	79,0	77,2	73,0	68,1	55,9									
65-125/22	2,2	3	18,1					15,8	14,5	12,8	8,3	5,4								
65-125/30	3	4	22,1					19,8	18,4	16,8	12,4	9,6								
65-125/40	4	5,5	25,7					24,2	23,0	21,5	17,4	14,7	11,7							
65-160/55	5,5	7,5	34,0					32,4	31,1	29,4	25,1	22,4	19,4							
65-160/75	7,5	10	41,8					39,4	37,9	36,1	31,6	28,8	25,7	22,3						
65-200/**	**	**	52,0					48,5	46,9	44,9	39,7	36,3	32,5	28,0						
65-200/110	11	15	58,7					54,2	52,5	50,4	45,1	41,7	37,7	33,2	27,9					
65-250/150	15	20	69,6					65,7	64,2	62,4	57,8	54,9	51,7	48,0	43,8					
65-250/185	18,5	25	78,3					74,1	72,5	70,7	66,0	63,2	60,0	56,4	52,4	43,0				
65-250/220	22	30	87,3					83,8	82,1	80,2	75,3	72,4	69,2	65,7	61,8	53,2				
80-125/30	3	4	15,7							14,1	12,4	11,3	10,2	9,0	7,8					
80-125/40	4	5,5	18,9							17,7	16,2	15,2	14,2	13,1	11,9					
80-125/55	5,5	7,5	23,6							21,7	20,4	19,6	18,8	17,8	16,7	14,2				
80-160/75	7,5	10	28,4							26,8	25,7	25,0	24,3	23,4	22,4	20,2				
80-200/110	11	15	40,9							38,2	36,5	35,5	34,3	33,1	31,8	28,7	25,1	22,1		
80-200/150	15	20	50,4							47,4	45,7	44,7	43,6	42,4	41,1	38,0	34,5	31,5		
80-200/185	18,5	25	57,8							54,5	52,8	51,8	50,7	49,5	48,2	45,3	41,9	39,0		
80-200/220	22	30	63,6							61,3	59,7	58,7	57,6	56,4	55,1	52,1	48,7	45,8		
100-160/110	11	15	28,8									27,7	27,3	26,8	26,3	25,0	23,5	22,3	18,5	
100-200/185	18,5	25	39,7											37,8	37,4	36,4	35,2	34,1	31,0	23,4
100-200/220	22	30	47,5											45,3	44,9	43,9	42,8	41,8	38,7	30,9

* FCTE 40-200/40A : 4 [kW] - 5.5 [HP] , FCTS 40-200/30 : 3 [kW] - 4 [HP]

fcte-fcts-2p50P_c_th

** FCTE 50-250/92 : 9.2 [kW] - 12.5 [HP] , FCTS 50-250/110A : 11 [kW] - 15 [HP]

FCTE 65-200/92 : 9.2 [kW] - 12.5 [HP] , FCTS 65-200/110A : 11 [kW] - 15 [HP]

Performance according to ISO standards 9906 - Annex A.

FCTE4-FCTS4 SERIES (SINGLE OPERATION)
Hydraulic performance table at 50 Hz, 4 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	50	100	150	175	200	300	400	500	600	700	900	1200	1400	1600	1750	2000	2500
			m^3/h 0	3	6	9	10,5	12	18	24	30	36	42	54	72	84	96	105	120	150
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER																	
40-125/02A *	0,25	0,33	4,6	4,2	3,3	2,1														
40-125/02 *	0,25	0,33	5,7	5,2	4,3	3,0	2,2													
40-160/02 *	0,25	0,33	7,0	6,4	5,5	4,2	3,4	2,6												
40-160/03 *	0,37	0,5	8,8	8,3	7,3	6,0	5,2	4,3												
40-200/05	0,55	0,75	12,8	11,8	10,5	8,7	7,7													
40-200/07	0,75	1	14,5	13,6	12,2	10,3	9,3	8,1												
40-250/11	1,1	1,5	18,5	17,6	16,2	14,4	13,3	12,2												
40-250/15	1,5	2	20,9	20,0	18,6	16,7	15,6	14,4												
50-125/02 *	0,25	0,33	6,3		5,7	5,2	4,9	4,6	3,0											
50-125/03 *	0,37	0,5	7,9		7,3	6,8	6,4	6,0	4,3	2,4										
50-160/05 *	0,55	0,75	9,4		8,8	8,2	7,9	7,5	5,8	3,6										
50-200/07	0,75	1	11,7		10,7	10,0	9,6	9,2	7,1	4,2										
50-200/11	1,1	1,5	14,1		13,2	12,5	12,2	11,8	9,6	6,7										
50-250/15	1,5	2	18,1		17,0	16,3	16,0	15,6	13,7	11,3	8,1									
50-250/22	2,2	3	21,3		20,3	19,7	19,3	18,9	17,0	14,6	11,5									
65-125/03 *	0,37	0,5	5,6					4,9	4,3	3,4	2,3									
65-125/05 *	0,55	0,75	6,4					6,0	5,4	4,5	3,5									
65-160/07	0,75	1	8,4					8,0	7,3	6,3	5,2	3,8	2,3							
65-160/11	1,1	1,5	10,3					9,7	9,1	8,2	7,0	5,6	3,9							
65-200/15	1,5	2	14,3					13,2	12,3	11,2	9,7	7,6	4,8							
65-250/22	2,2	3	19,0					17,6	16,7	15,7	14,4	12,8	10,7	4,9						
65-250/30	3	4	21,4					20,1	19,3	18,3	17,1	15,5	13,6	8,5						
80-125/07	0,75	1	5,6						5,3	5,0	4,7	4,2	3,7	2,4						
80-125/11	1,1	1,5	7,0						6,6	6,3	6,0	5,7	5,2	4,0						
80-200/15	1,5	2	11,7						10,2	9,7	9,1	8,5	7,8	6,1						
80-200/22	2,2	3	14,7						13,3	12,8	12,2	11,5	10,8	9,2	6,3					
80-200/30	3	4	16,7						15,1	14,6	14,0	13,4	12,8	11,3	8,2					
80-250/40	4	5,5	19,6						19,1	18,6	18,1	17,4	16,7	14,8	11,2	8,2				
80-250/55	5,5	7,5	23,3						22,7	22,3	21,8	21,2	20,5	18,9	15,6	12,9				
100-160/15	1,5	2	7,9								7,6	7,4	7,1	6,4	5,0	4,0	2,9	2,1		
100-200/22	2,2	3	9,7									9,1	8,9	8,2	7,0	6,0	4,9	4,0	2,3	
100-200/30	3	4	11,6									10,9	10,7	10,0	8,8	7,8	6,6	5,6	3,8	
100-250/40	4	5,5	15,2									14,4	14,2	13,6	12,3	11,3	10,1	9,1	7,2	
100-250/55	5,5	7,5	18,7									17,8	17,6	17,0	15,7	14,8	13,6	12,7	10,9	6,7
100-250/75	7,5	10	21,6									21,2	20,9	20,4	19,2	18,2	17,1	16,1	14,4	10,0

* FCTE4 VERSION ONLY

fcte4-fcts4-4p50S-en_e_th

Performances according to ISO 9906 - Annex A.

FCTE4-FCTS4 SERIES (PARALLEL OPERATION)
Hydraulic performance table at 50 Hz, 4 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	100	200	300	350	400	600	700	900	1000	1100	1600	1800	2400	3000	3500	4000	4600
	2 x kW	2 x HP	m^3/h 0	6	12	18	21	24	36	42	54	60	66	96	108	144	180	210	240	276
			H = TOTAL HEAD IN COLUMN OF WATER (METRES)																	
40-125/02A *	0,25	0,33	4,6	4,1	3,2	1,7														
40-125/02 *	0,25	0,33	5,8	5,2	4,2	2,6														
40-160/02 *	0,25	0,33	7,0	6,4	5,4	3,8	2,9													
40-160/03 *	0,37	0,5	8,8	8,3	7,2	5,6	4,6	3,5												
40-200/05	0,55	0,75	12,9	11,8	10,3	8,4														
40-200/07	0,75	1	14,8	13,6	12,1	10,2	9,0													
40-250/11	1,1	1,5	18,5	17,6	16,1	14,0	12,8													
40-250/15	1,5	2	21,1	20,0	18,5	16,4	15,2	13,9												
50-125/02 *	0,25	0,33	6,3		5,6	5,0	4,6	4,2	2,2											
50-125/03 *	0,37	0,5	8,1		7,2	6,5	6,1	5,7	3,6	2,3										
50-160/05 *	0,55	0,75	9,6		8,8	8,1	7,7	7,2	5,0	3,6										
50-200/07	0,75	1	11,5		10,6	9,8	9,3	8,8	6,3	4,7										
50-200/11	1,1	1,5	14,0		13,0	12,3	11,8	11,3	8,7	7,1										
50-250/15	1,5	2	18,1		17,0	16,2	15,7	15,3	12,9	11,5	7,9									
50-250/22	2,2	3	21,3		20,2	19,4	19,0	18,5	16,0	14,6	11,0									
65-125/03 *	0,37	0,5	5,5					4,7	4,0	3,5	2,2									
65-125/05 *	0,55	0,75	6,3					5,9	5,2	4,7	3,4	2,7								
65-160/07	0,75	1	8,5					7,8	7,0	6,5	5,3	4,5	3,7							
65-160/11	1,1	1,5	10,2					9,7	8,9	8,3	7,0	6,2	5,4							
65-200/15	1,5	2	14,4					13,1	12,1	11,4	9,8	8,8	7,6							
65-250/22	2,2	3	19,3					17,7	16,6	16,1	14,6	13,8	12,8	5,9						
65-250/30	3	4	21,6					20,2	19,3	18,7	17,3	16,5	15,5	9,2						
80-125/07	0,75	1	5,7						5,2	5,0	4,6	4,4	4,1	2,4						
80-125/11	1,1	1,5	7,0						6,6	6,4	6,1	5,9	5,6	4,1	3,3					
80-200/15	1,5	2	11,5						10,1	9,8	9,2	8,9	8,6	6,5	5,5					
80-200/22	2,2	3	14,8						13,2	12,9	12,3	12,0	11,7	9,7	8,7					
80-200/30	3	4	16,7						15,7	15,4	14,9	14,6	14,2	12,0	10,9	6,8				
80-250/40	4	5,5	19,8						19,1	18,8	18,3	17,9	17,6	15,3	14,1	9,9				
80-250/55	5,5	7,5	23,2						22,6	22,4	21,9	21,6	21,3	19,2	18,2	14,3				
100-160/15	1,5	2	7,8								7,5	7,4	7,3	6,5	6,1	4,5	2,5			
100-200/22	2,2	3	9,7										9,1	8,3	7,9	6,4	4,5	2,6		
100-200/30	3	4	11,6										11,0	10,2	9,8	8,3	6,4	4,5	2,1	
100-250/40	4	5,5	15,1										14,4	13,7	13,3	11,8	9,9	7,9	5,5	
100-250/55	5,5	7,5	18,7										17,8	17,1	16,7	15,5	13,7	11,8	9,5	6,0
100-250/75	7,5	10	21,6										21,1	20,4	20,1	18,8	17,1	15,3	13,1	9,9

* ONLY FCTE4 VERSION

fcte4-fcts4-4p50P_e_th

Performance according to ISO standards 9906 - Annex A.

FCTS4 SERIES (SINGLE OPERATION)
Hydraulic performance table at 50 Hz, 4 poles

PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	900	1100	1333	1583	1667	1833	1917	2000	2333	2500	3000	3167	3667	4083	4500	4733	5167
			m^3/h 0	54	66	80	95	100	110	115	120	140	150	180	190	220	245	270	284	310
	kW	HP	H =TOTAL HEAD METRES COLUMN OF WATER																	
125-160/30	3	4	10,1	8,7	8,2	7,5	6,6	6,3	5,7	5,3	5,0	3,4								
125-200/40	4	5,5	12,4	10,9	10,4	9,6	8,6	8,3	7,5	7,1	6,7	5,0	4,0							
125-200/55	5,5	7,5	15,0	13,6	13,1	12,3	11,4	11,1	10,3	10,0	9,6	7,8	6,8							
125-250/75	7,5	10	19,9	18,5	17,9	17,0	15,8	15,4	14,5	14,0	13,4	11,1	9,7							
125-250/110	11	15	25,5	24,0	23,5	22,7	21,7	21,3	20,5	20,0	19,5	17,3	16,0	11,3	9,5					
150-200/55	5,5	7,5	11,8			9,6	9,1	9,0	8,6	8,5	8,3	7,5	7,1	5,7	5,2	3,5				
150-200/75	7,5	10	15,4			13,3	12,9	12,8	12,5	12,3	12,1	11,4	11,0	9,5	9,0	7,0	5,0			
150-250/110	11	15	18,0			17,0	16,7	16,6	16,3	16,1	16,0	15,2	14,8	13,1	12,5	10,2				
150-250/150	15	20	22,1			21,3	21,0	20,8	20,5	20,4	20,2	19,4	19,0	17,5	17,0	15,0	13,2	11,1	9,8	
150-250/185	18,5	25	25,1			24,1	23,8	23,7	23,5	23,3	23,2	22,6	22,3	21,1	20,6	18,9	17,1	15,0	13,7	10,9

Performances according to ISO 9906 - Annex A

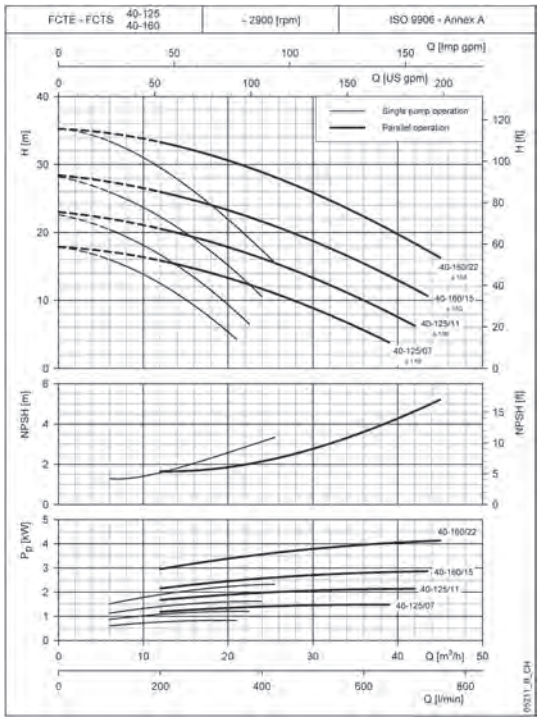
lmz-fcts4-4p50S-en_b_th

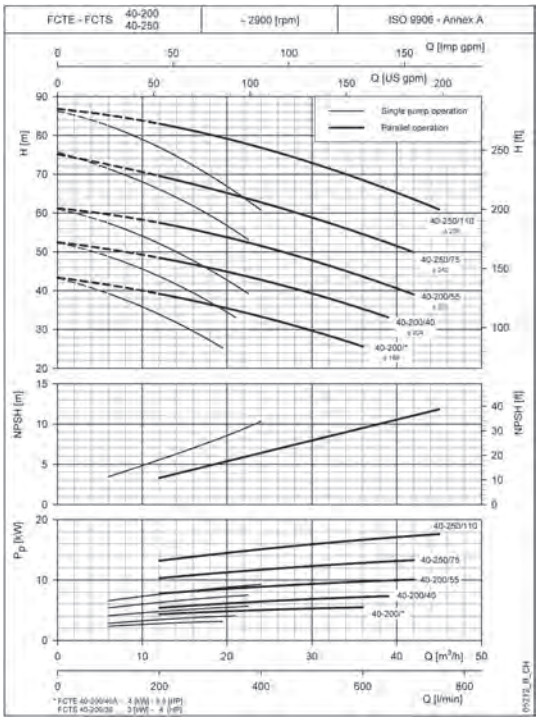
PUMP TYPE	RATED POWER		Q = DELIVERY																	
			l/min 0	1800	2200	2667	3000	3250	3500	3750	4000	4333	4833	5200	5667	6500	7333	7667	8333	9000
			m^3/h 0	108	132	160	180	195	210	225	240	260	290	312	340	390	440	460	500	540
	kW	HP	H =TOTAL HEAD METRES COLUMN OF WATER																	
125-160/30	3	4	10,2	8,8	8,1	7,2	6,5	5,9	5,3	4,7	4,1	3,2								
125-200/40	4	5,5	12,7	11,2	10,6	9,7	9,0	8,4	7,8	7,1	6,3	5,2								
125-200/55	5,5	7,5	15,1	14,4	14,0	13,3	12,7	12,2	11,6	10,9	10,1	9,0	7,0							
125-250/75	7,5	10	20,3	17,8	17,2	16,4	15,6	15,0	14,2	13,4	12,4	10,9	8,2							
125-250/110	11	15	25,6	24,4	23,7	22,6	21,7	21,0	20,2	19,3	18,4	17,1	14,9	13,2	10,8					
150-200/55	5,5	7,5	11,6				8,6	8,2	7,9	7,5	7,1	6,6	5,8	5,2	4,5					
150-200/75	7,5	10	15,4				12,7	12,4	12,0	11,6	11,2	10,7	9,9	9,2	8,3	6,7				
150-250/110	11	15	18,7				17,2	16,9	16,6	16,3	16,0	15,5	14,7	14,0	13,1	11,2	9,0	8,0		
150-250/150	15	20	22,7				21,5	21,3	21,0	20,7	20,4	20,0	19,2	18,6	17,7	15,9	13,8	12,9	10,9	
150-250/185	18,5	25	25,4				24,5	24,3	24,0	23,7	23,4	23,0	22,2	21,6	20,8	19,1	17,2	16,4	14,7	12,9

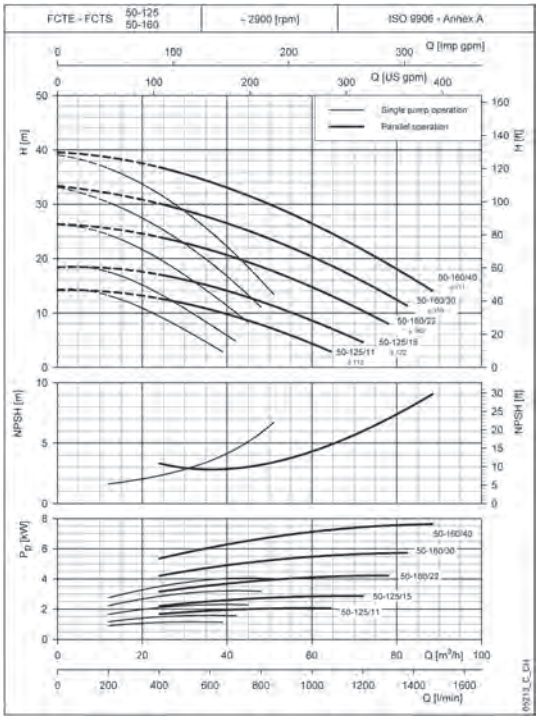
Performances according to ISO 9906 - Annex A

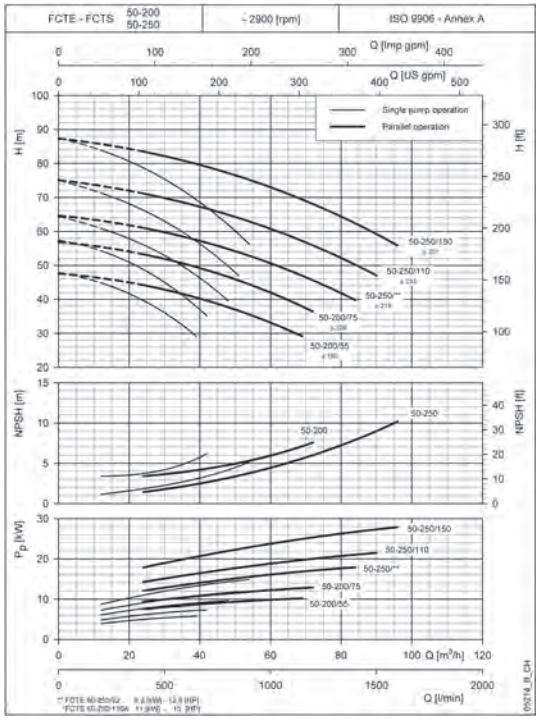
lmz-fcts4-4p50P-en_c_th

FCTE-FCTS SERIES
Operating characteristics at 50 Hz, 2 poles





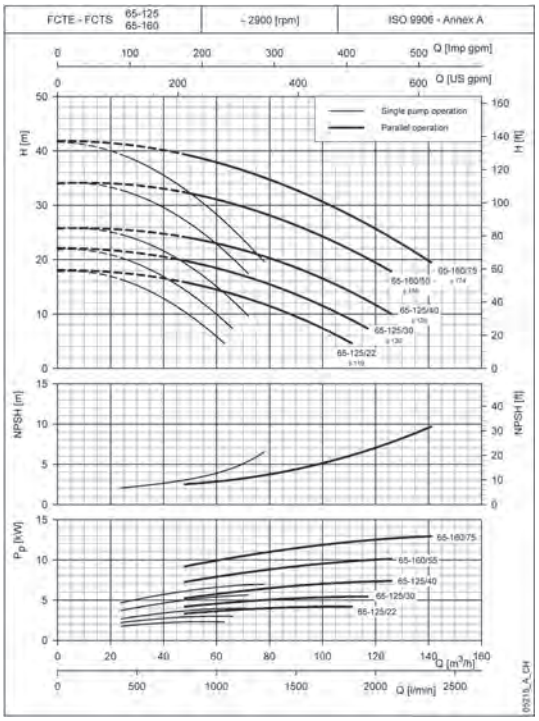


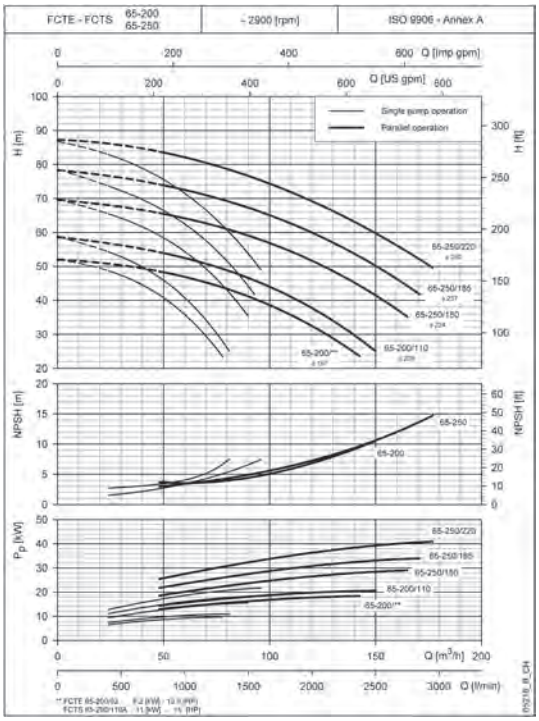


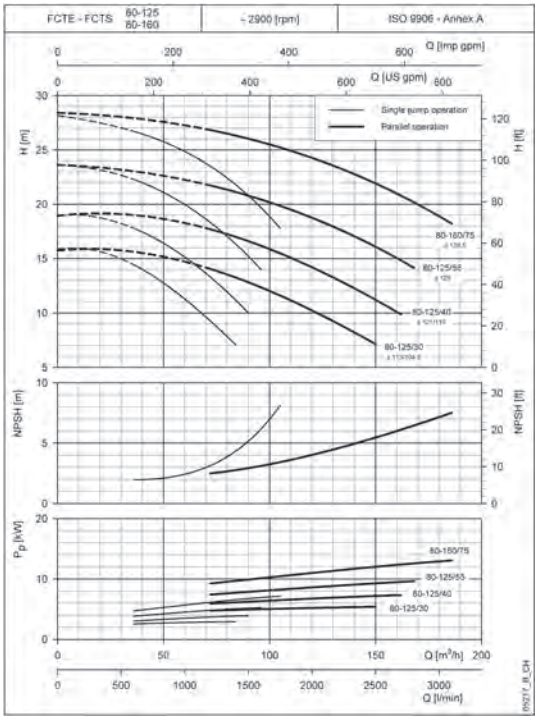
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

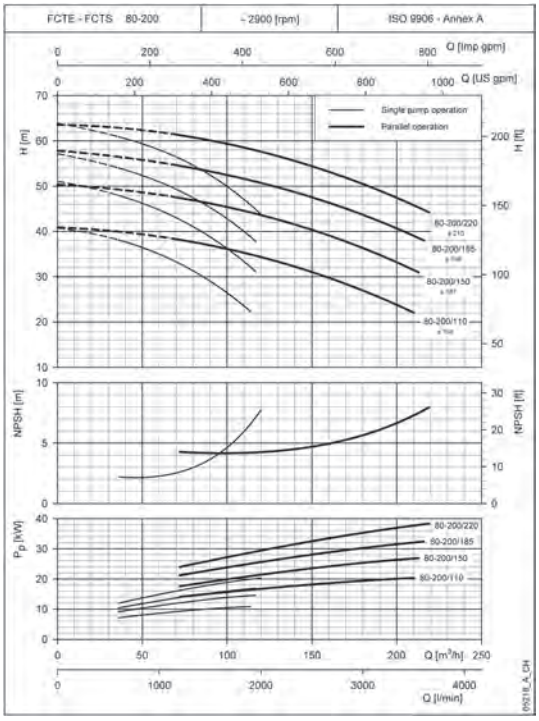
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTE-FCTS SERIES
Operating characteristics at 50 Hz, 2 poles





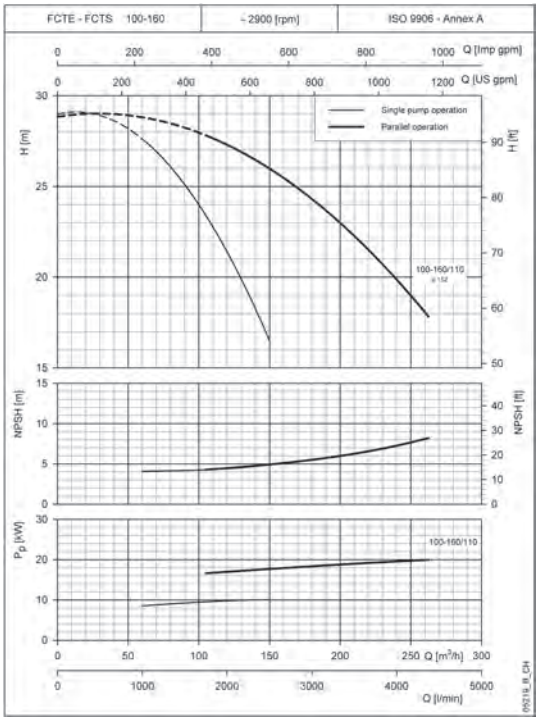


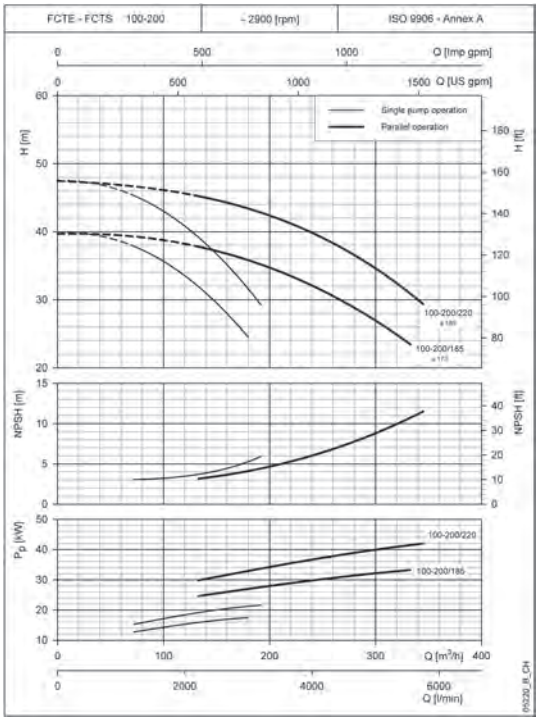


These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTE-FCTS SERIES
Operating characteristics at 50 Hz, 2 poles



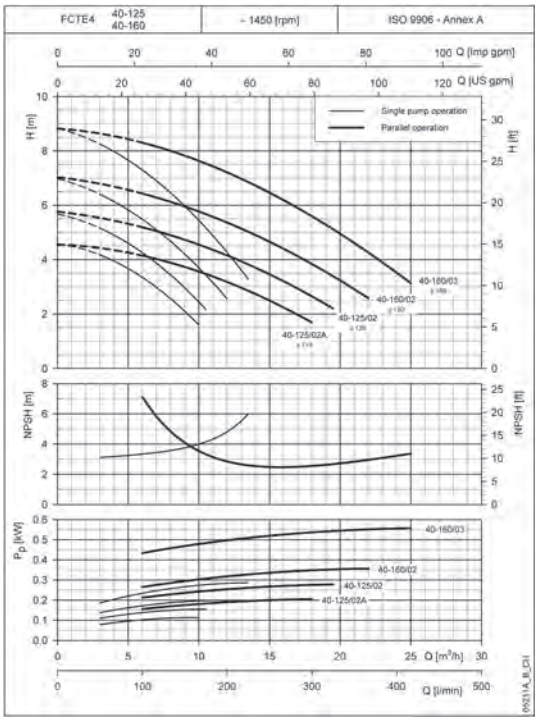


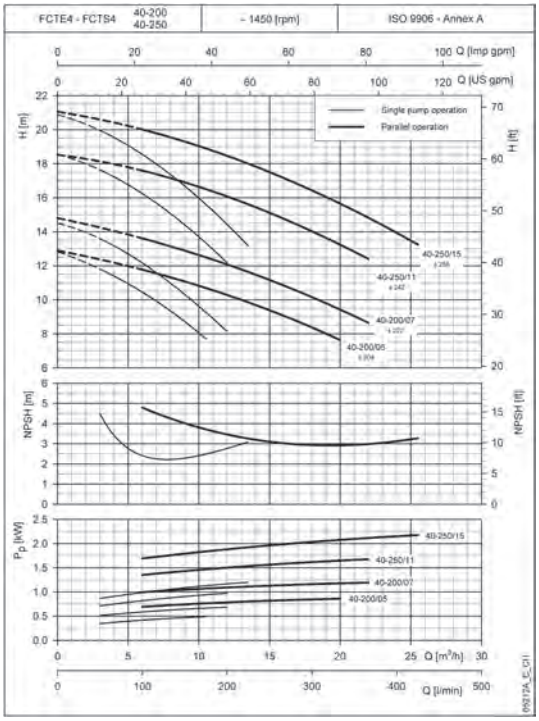
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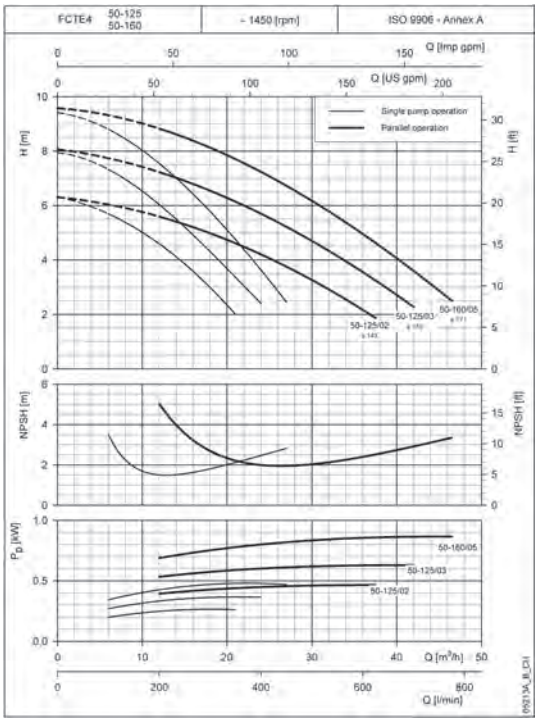
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

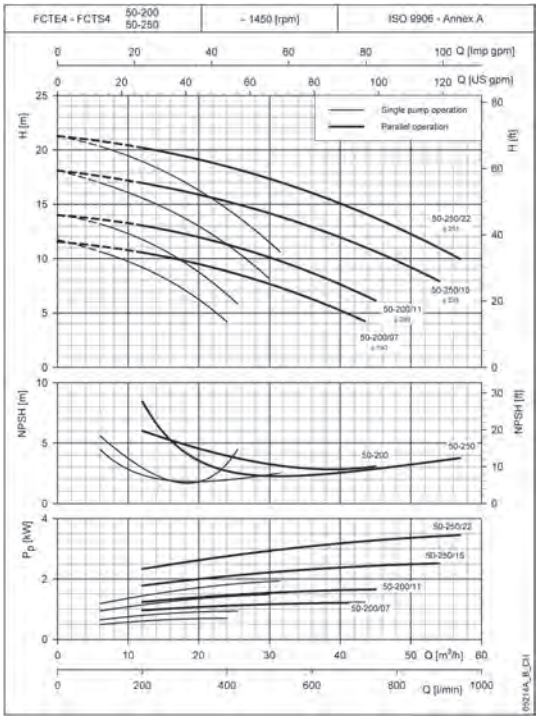
Black and white technical books available
see www.lowara.it

FCTE4-FCTS4 SERIES
Operating characteristics at 50 Hz, 4 poles





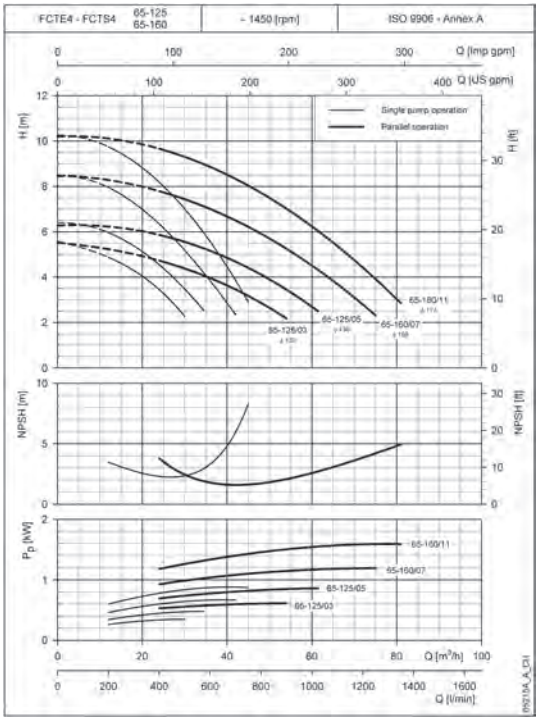


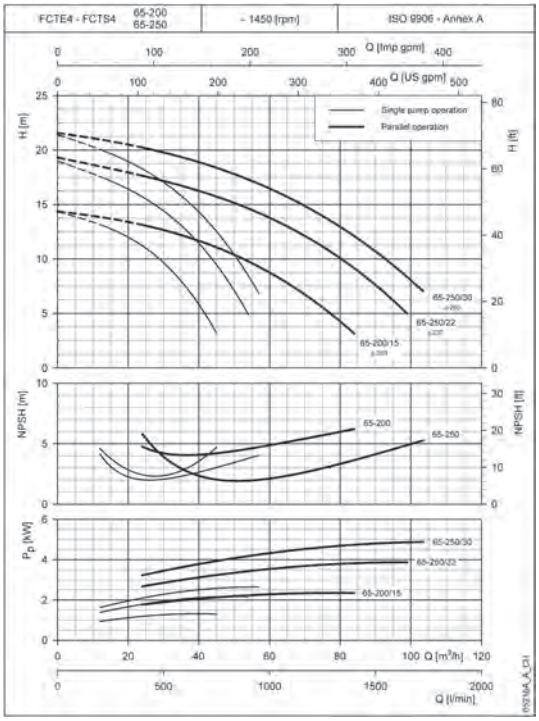


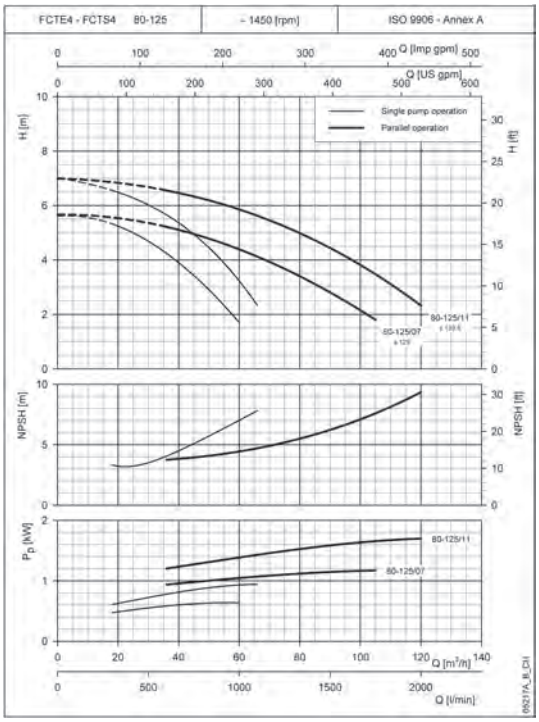
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

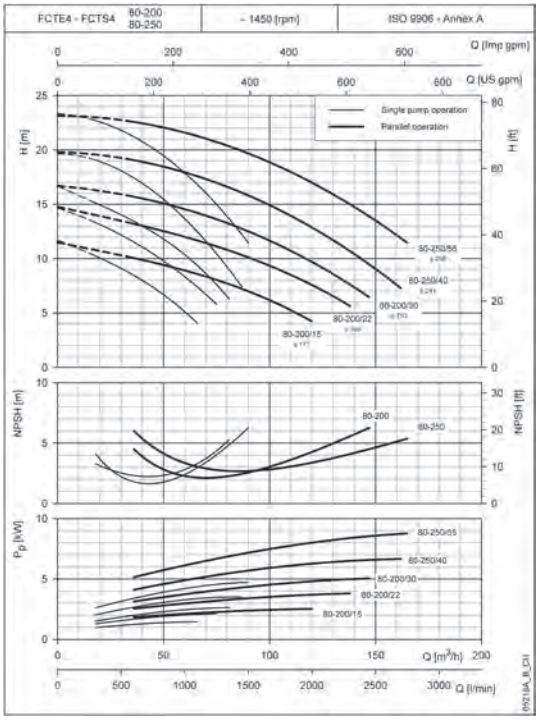
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTE4-FCTS4 SERIES
Operating characteristics at 50 Hz, 4 poles





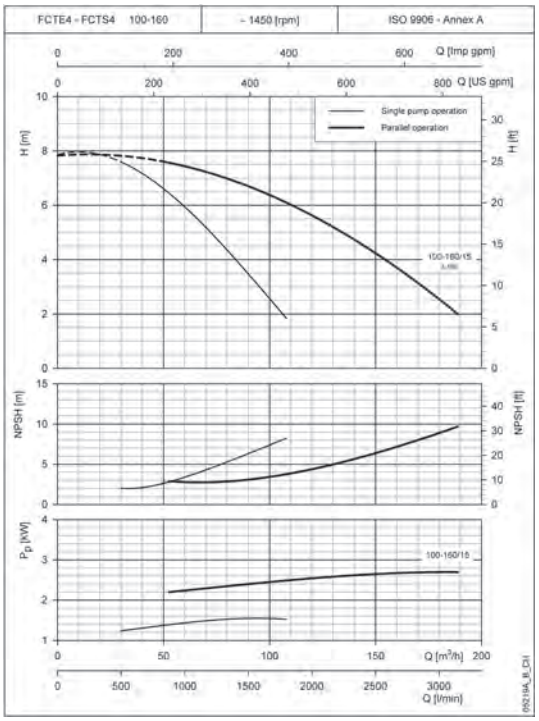


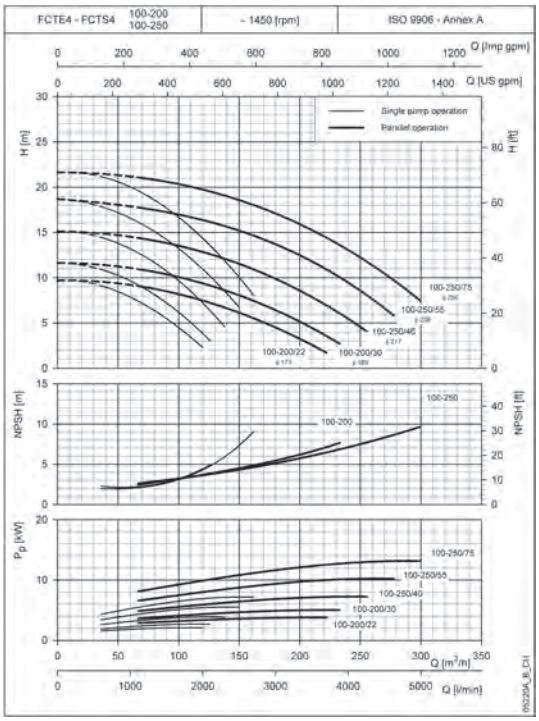


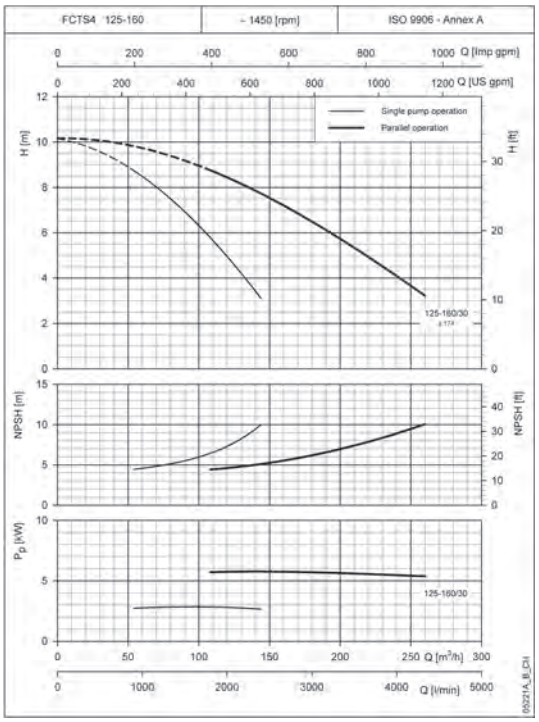
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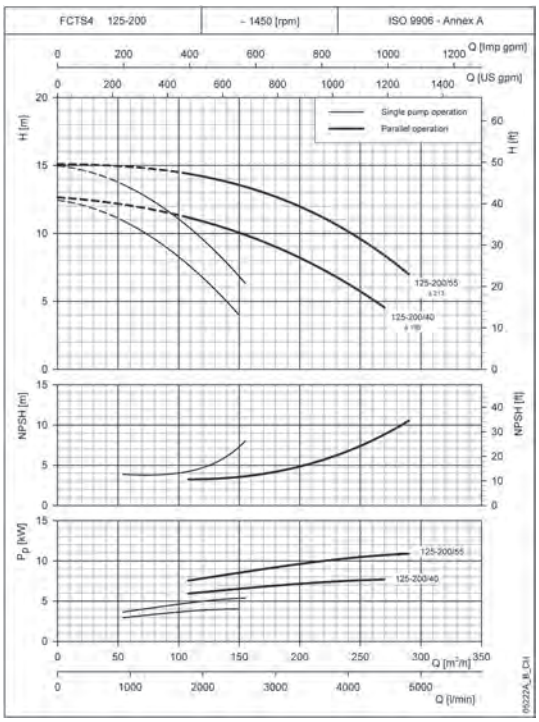
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTE4-FCTS4 SERIES
Operating characteristics at 50 Hz, 4 poles





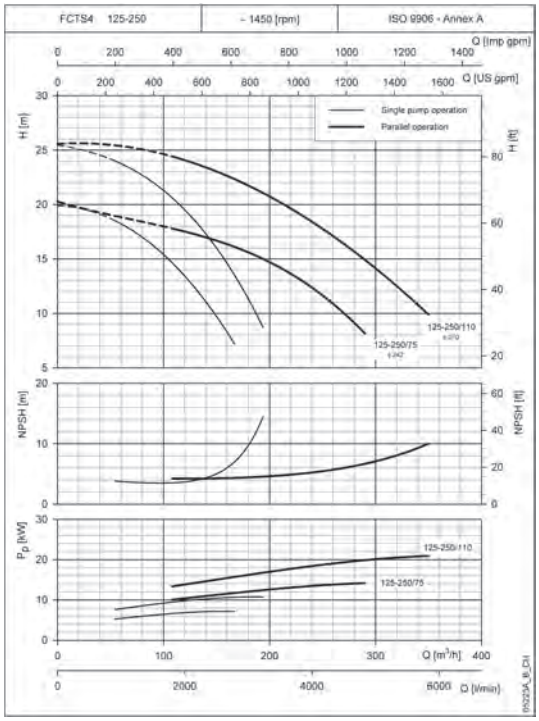


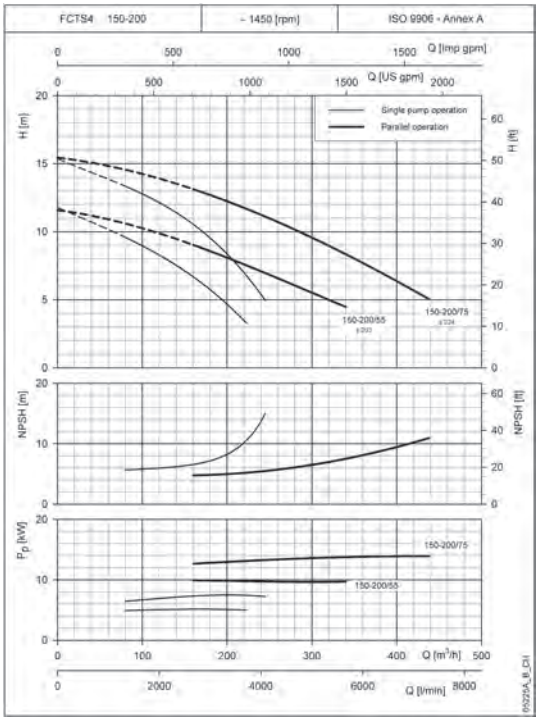


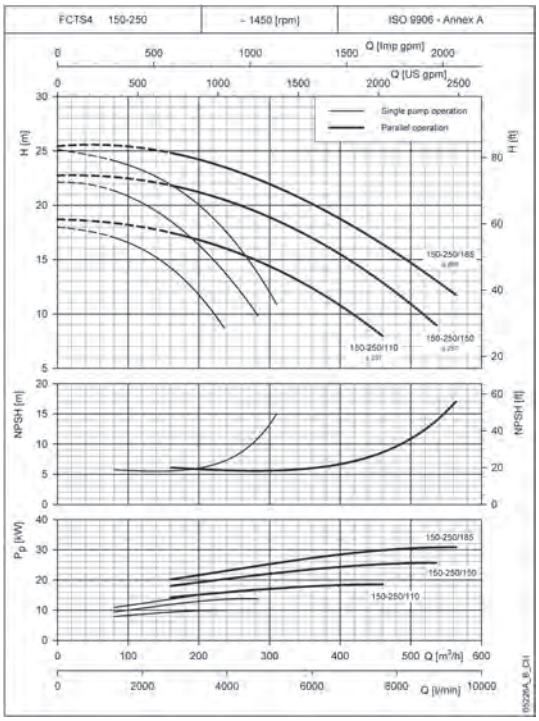
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

FCTS4 SERIES
Operating characteristics at 50 Hz, 4 poles



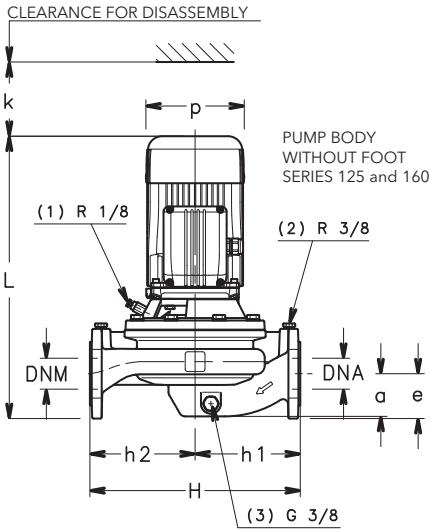


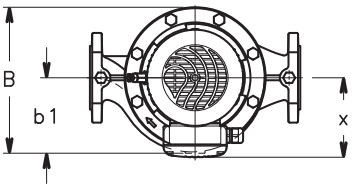


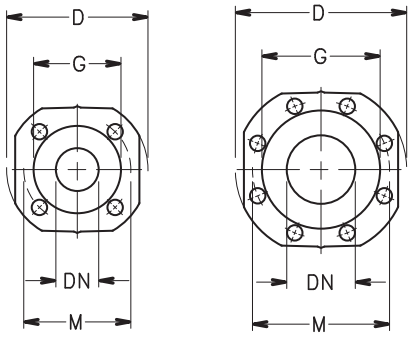
These NPSH values are valid in laboratory conditions; for practical purposes, values should be increased by a 0.5 m safety margin.

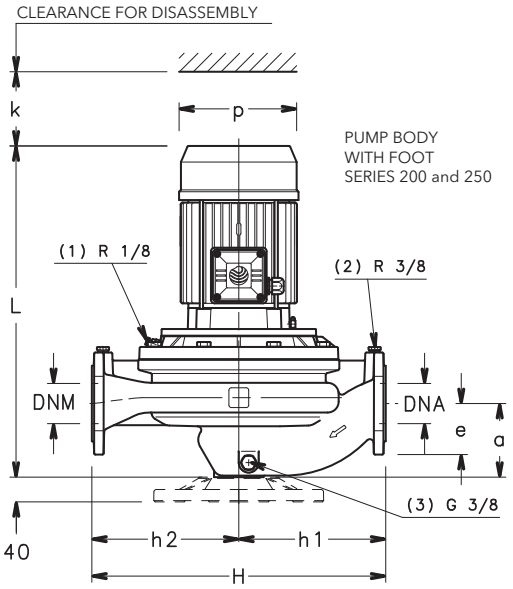
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

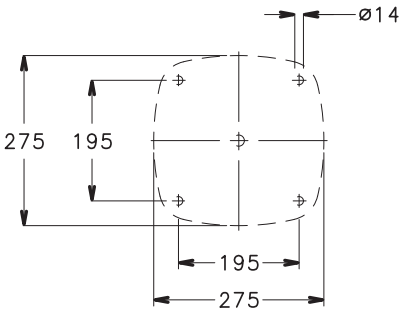
FCE SERIES
Dimensions and weights at 50 Hz

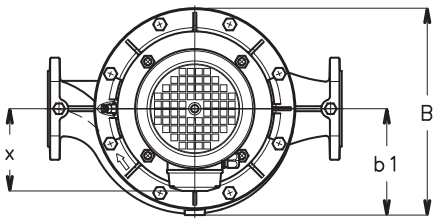












PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

(1) R 1/8 AIR VALVE

(2) R 3/8 PRESSURE GAUGE CONNECTOR

(3) G 3/8 GAUGE

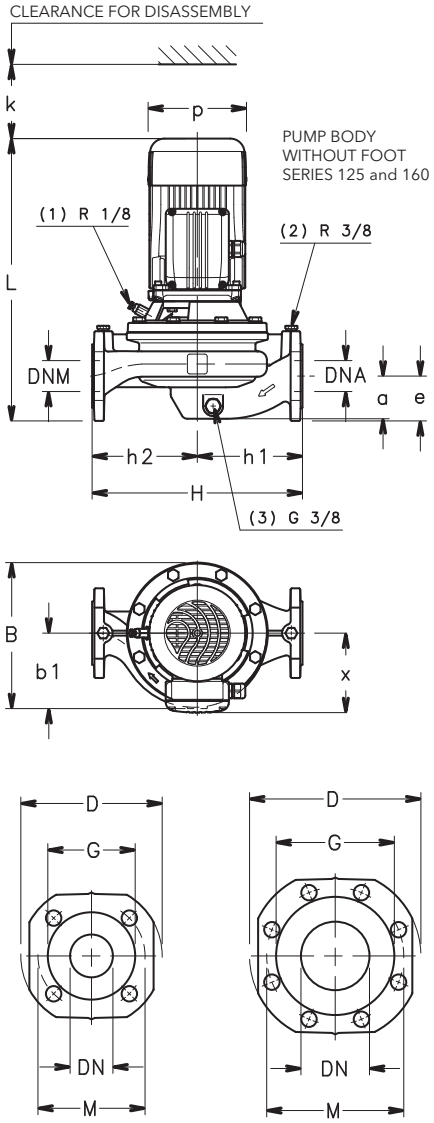
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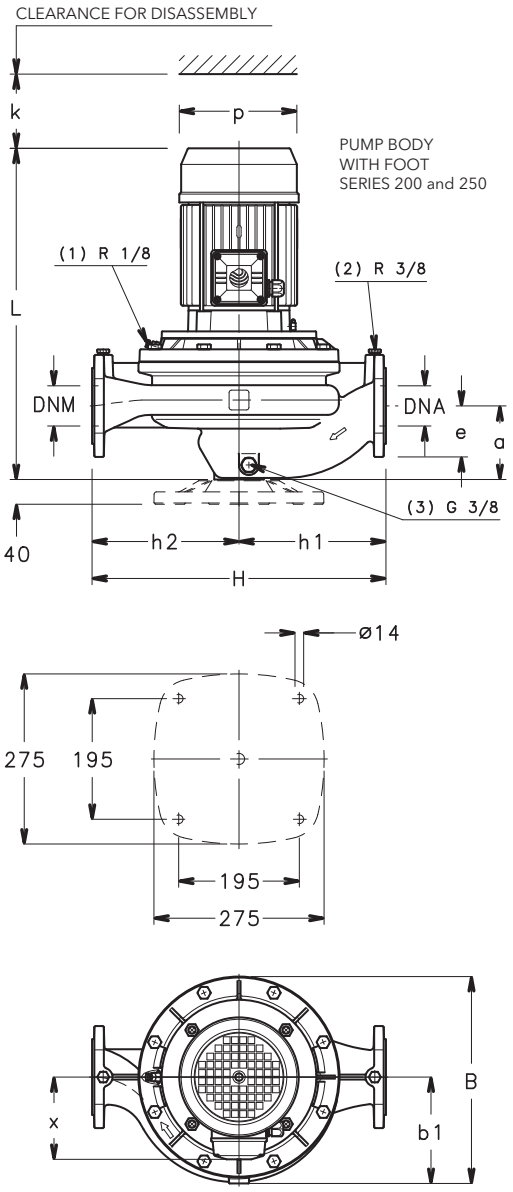
FCE SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	DIMENSIONS (mm)													WEIGHT
	DNA	DNM	a	e	h1	h2	x	b1	p	B	H max	L	k	kg
FCE 40-125/07	40	40	70	70	160	160	129	116	155	243	320	448	86	30
FCE 40-125/11	40	40	70	70	160	160	129	116	155	243	320	448	86	31
FCE 40-160/15	40	40	70	70	160	160	134	116	174	248	320	483	86	34
FCE 40-160/22	40	40	70	70	160	160	134	116	174	248	320	483	86	35
FCE 40-200/40A	40	40	95	65	220	220	154	163	197	325	440	514	98	72
FCE 40-200/40	40	40	95	65	220	220	154	163	197	325	440	514	98	72
FCE 40-200/55	40	40	95	65	220	220	168	163	214	330	440	548	98	73
FCE 40-250/75	40	40	95	65	220	220	191	163	256	353	440	562	98	91
FCE 40-250/110	40	40	95	65	220	220	191	163	256	353	440	600	98	92
FCE 50-125/11	50	50	69	73	170	170	129	122	155	243	340	457	88	33
FCE 50-125/15	50	50	69	73	170	170	134	122	174	248	340	492	88	38
FCE 50-160/22	50	50	69	73	170	170	134	122	174	248	340	492	88	44
FCE 50-160/30	50	50	69	73	170	170	134	122	174	248	340	492	88	46
FCE 50-160/40	50	50	69	73	170	170	154	122	197	268	340	513	88	49
FCE 50-200/55	50	50	110	73	220	220	168	163	214	331	440	577	100	56
FCE 50-200/75	50	50	110	73	220	220	191	163	256	354	440	591	100	72
FCE 50-250/92	50	50	110	73	220	220	191	163	256	354	440	629	100	101
FCE 50-250/110	50	50	110	73	220	220	191	163	256	354	440	629	100	107
FCE 50-250/150	50	50	110	73	220	220	240	163	313	403	440	718	100	115
FCE 65-125/22	65	65	77	83	170	170	134	137	174	274	340	511	92	54
FCE 65-125/30	65	65	77	83	170	170	134	137	174	274	340	511	92	57
FCE 65-125/40	65	65	77	83	170	170	154	137	197	291	340	532	92	61
FCE 65-160/55	65	65	77	83	170	170	168	137	214	305	340	566	92	69
FCE 65-160/75	65	65	77	83	170	170	191	137	256	328	340	580	92	86
FCE 65-200/92	65	65	119	83	237,5	237,5	191	172	256	354	475	634	104	105
FCE 65-200/110	65	65	119	83	237,5	237,5	191	172	256	354	475	634	104	112
FCE 65-250/150	65	65	119	83	237,5	237,5	240	172	313	403	475	723	104	128
FCE 65-250/185	65	65	119	83	237,5	237,5	240	172	313	403	475	723	104	138
FCE 65-250/220	65	65	119	83	237,5	237,5	240	172	313	403	475	723	104	150
FCE 80-125/30	80	80	90	90	175	185	134	148	174	287	360	545	102	64
FCE 80-125/40	80	80	90	90	175	185	154	148	197	293	360	566	102	67
FCE 80-125/55	80	80	90	90	175	185	168	148	214	307	360	600	102	69
FCE 80-160/75	80	80	90	90	175	185	191	148	256	330	360	614	102	85
FCE 80-200/110	80	80	130	90	250	250	191	184	256	354	500	661	112	120
FCE 80-200/150	80	80	130	90	250	250	240	184	313	403	500	750	112	130
FCE 80-200/185	80	80	130	90	250	250	240	184	313	403	500	750	112	140
FCE 80-200/220	80	80	130	90	250	250	240	184	313	403	500	750	112	152
FCE 100-160/110	100	100	105	105	225	225	191	172	256	330	450	677	117	127
FCE 100-200/185	100	100	140	105	275	275	240	196	313	406	550	771	129	180
FCE 100-200/220	100	100	140	105	275	275	240	196	313	406	550	771	129	192

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FCE4 SERIES
Dimensions and weights at 50 Hz





PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

(1) R 1/8 AIR VALVE

(2) R 3/8 PRESSURE GAUGE CONNECTOR

(3) G 3/8 GAUGE

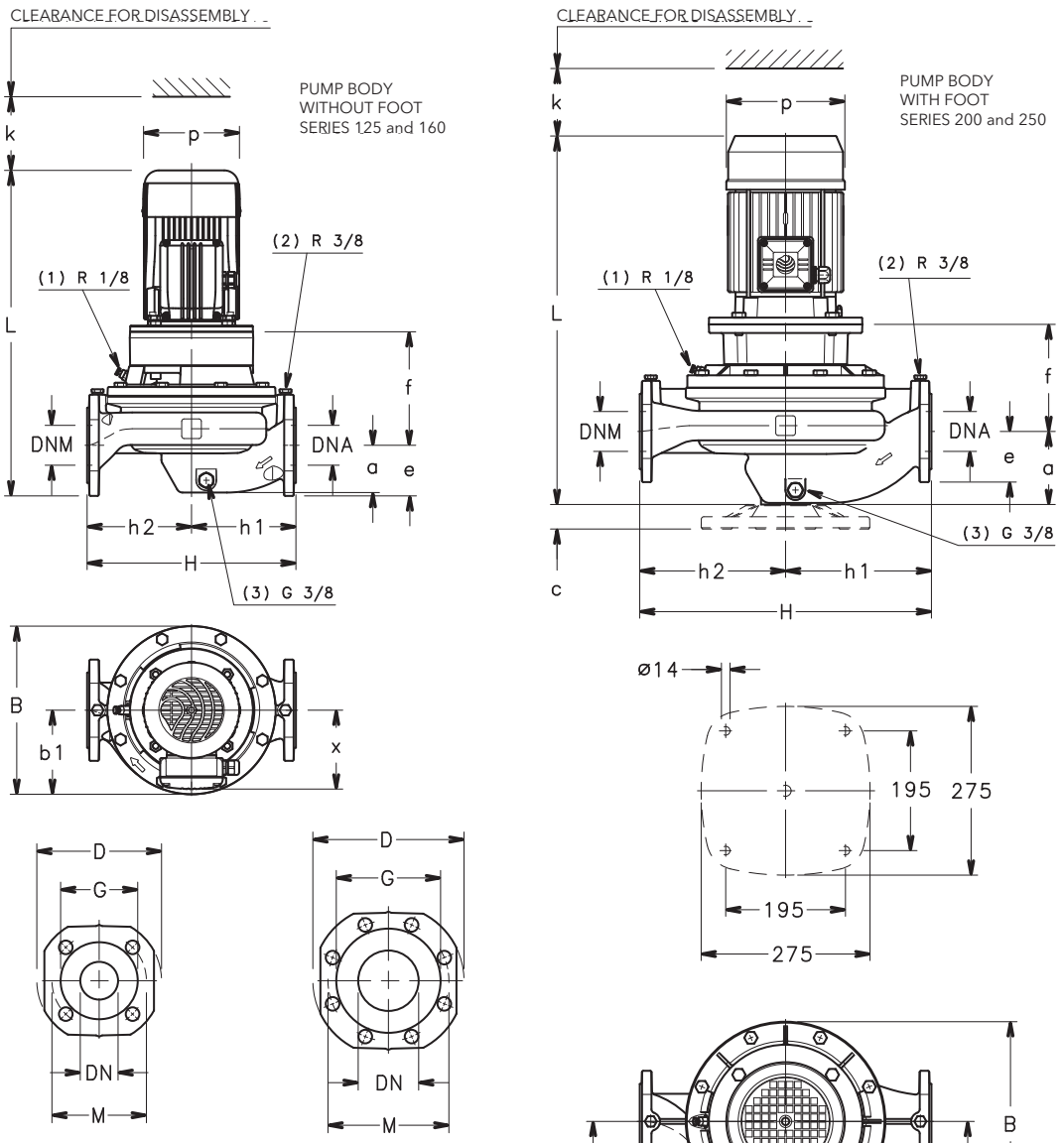
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FCE4 SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	DIMENSIONS (mm)													WEIGHT
	DNA	DNM	a	e	h1	h2	x	b1	p	B	H max	L	k	kg
FCE4 40-125/02A	40	40	70	70	160	160	121	116	140	235	320	416	86	24
FCE4 40-125/02	40	40	70	70	160	160	121	116	140	235	320	416	86	24
FCE4 40-160/02	40	40	70	70	160	160	121	116	140	235	320	416	86	25
FCE4 40-160/03	40	40	70	70	160	160	121	116	140	235	320	416	86	26
FCE4 40-200/05	40	40	95	65	220	220	129	163	155	325	440	458	98	44
FCE4 40-200/07	40	40	95	65	220	220	128	163	159	325	440	426	98	45
FCE4 40-250/11	40	40	95	65	220	220	134	163	174	325	440	493	98	64
FCE4 40-250/15	40	40	95	65	220	220	134	163	174	325	440	493	98	65
FCE4 50-125/02	50	50	69	73	170	170	121	122	140	236	340	425	88	28
FCE4 50-125/03	50	50	69	73	170	170	121	122	140	236	340	425	88	29
FCE4 50-160/05	50	50	69	73	170	170	129	122	155	243	340	457	88	31
FCE4 50-200/07	50	50	110	73	220	220	128	163	159	326	440	455	100	54
FCE4 50-200/11	50	50	110	73	220	220	134	163	174	326	440	522	100	63
FCE4 50-250/15	50	50	110	73	220	220	134	163	174	326	440	522	100	66
FCE4 50-250/22	50	50	110	73	220	220	168	163	214	331	440	546	100	72
FCE4 65-125/03	65	65	77	83	170	170	121	137	140	274	340	444	92	38
FCE4 65-125/05	65	65	77	83	170	170	129	137	155	274	340	476	92	42
FCE4 65-160/07	65	65	77	83	170	170	128	137	159	274	340	444	92	47
FCE4 65-160/11	65	65	77	83	170	170	134	137	174	274	340	511	92	54
FCE4 65-200/15	65	65	119	83	237,5	237,5	134	172	174	335	475	527	104	69
FCE4 65-250/22	65	65	119	83	237,5	237,5	168	172	214	335	475	551	104	80
FCE4 65-250/30	65	65	119	83	237,5	237,5	168	172	214	335	475	582	104	82
FCE4 80-125/07	80	80	90	90	175	185	128	148	159	287	360	478	102	51
FCE4 80-125/11	80	80	90	90	175	185	134	148	174	287	360	545	102	59
FCE4 80-200/15	80	80	130	90	250	250	134	184	174	347	500	554	112	81
FCE4 80-200/22	80	80	130	90	250	250	168	184	214	347	500	578	112	87
FCE4 80-200/30	80	80	130	90	250	250	168	184	214	347	500	609	112	91
FCE4 80-250/40	80	80	130	90	250	250	168	184	214	347	500	654	112	117
FCE4 80-250/55	80	80	130	90	250	250	191	184	256	354	500	661	112	125
FCE4 100-160/15	100	100	105	105	225	225	134	172	174	311	450	570	117	74
FCE4 100-200/22	100	100	140	105	275	275	168	196	214	362	550	599	129	99
FCE4 100-200/30	100	100	140	105	225	275	168	196	214	362	550	630	129	101
FCE4 100-250/40	100	100	140	105	275	275	168	196	214	362	550	675	129	125
FCE4 100-250/55	100	100	140	105	275	275	191	196	256	362	550	682	129	131
FCE4 100-250/75	100	100	140	105	275	275	191	196	256	362	550	682	129	141

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FCS SERIES
Dimensions and weights at 50 Hz



PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

(1) R 1/8 AIR VALVE

(2) R 3/8 PRESSURE GAUGE CONNECTOR

(3) G 3/8 GAUGE

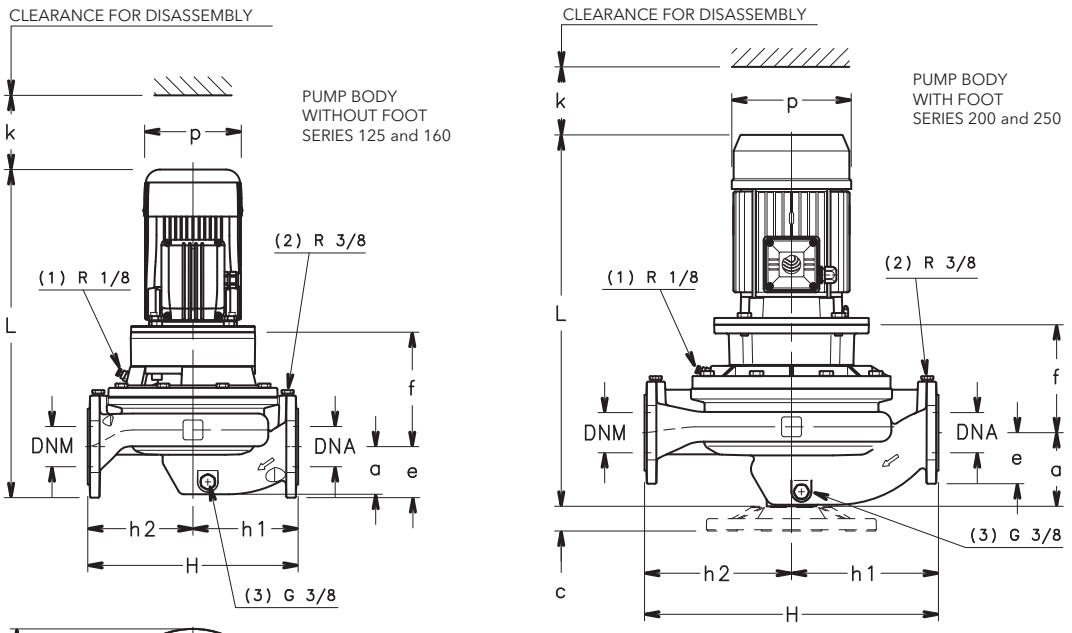
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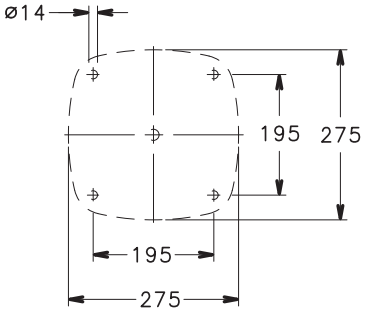
FCS SERIES
Dimensions and weights at 50 Hz

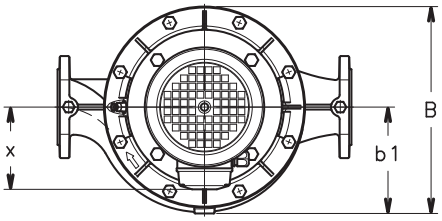
PUMP TYPE	DIMENSIONS (mm)														WEIGHT
	DNA	DNM	a	e	f	h1	h2	x	b1	p	B	H max	L	k	kg
FCS 40-125/07	40	40	70	70	170	160	160	129	116	155	243	320	503	86	33
FCS 40-125/11	40	40	70	70	170	160	160	129	116	155	243	320	503	86	34
FCS 40-160/15	40	40	70	70	170	160	160	134	116	174	248	320	538	86	37
FCS 40-160/22	40	40	70	70	170	160	160	134	116	174	248	320	538	86	39
FCS 40-200/30	40	40	95	65	165	220	220	134	163	174	325	440	558	98	69
FCS 40-200/40	40	40	95	65	165	220	220	154	163	197	325	440	579	98	75
FCS 40-200/55	40	40	95	65	192	220	220	168	163	214	330	440	662	98	88
FCS 40-250/75	40	40	95	65	192	220	220	191	163	256	353	440	654	98	106
FCS 40-250/110	40	40	95	65	222	220	220	191	163	256	353	440	745	98	120
FCS 50-125/11	50	50	69	73	176	170	170	129	122	155	243	340	512	88	38
FCS 50-125/15	50	50	69	73	176	170	170	134	122	174	248	340	547	88	42
FCS 50-160/22	50	50	69	73	176	170	170	134	122	174	248	340	547	88	50
FCS 50-160/30	50	50	69	73	186	170	170	134	122	174	248	340	557	88	51
FCS 50-160/40	50	50	69	73	186	170	170	154	122	197	268	340	578	88	58
FCS50-200/55	50	50	110	73	206	220	220	168	163	214	331	440	691	100	91
FCS 50-200/75	50	50	110	73	206	220	220	191	163	256	354	440	683	100	108
FCS 50-250/110A	50	50	110	73	236	220	220	191	163	256	354	440	774	100	115
FCS 50-250/110	50	50	110	73	236	220	220	191	163	256	354	440	774	100	115
FCS 50-250/150	50	50	110	73	236	220	220	240	163	313	403	440	840	100	125
FCS 65-125/22	65	65	77	83	185	170	170	134	137	174	274	340	566	92	69
FCS 65-125/30	65	65	77	83	195	170	170	134	137	174	274	340	576	92	62
FCS 65-125/40	65	65	77	83	195	170	170	154	137	197	291	340	597	92	67
FCS 65-160/55	65	65	77	83	222	170	170	168	137	214	305	340	680	92	80
FCS 65-160/75	65	65	77	83	222	170	170	191	137	256	328	340	672	92	95
FCS 65-200/110A	65	65	119	83	232	237,5	237,5	191	172	256	354	475	779	104	133
FCS 65-200/110	65	65	119	83	232	237,5	237,5	191	172	256	354	475	779	104	133
FCS 65-250/150	65	65	119	83	232	237,5	237,5	240	172	313	403	475	845	104	134
FCS 65-250/185	65	65	119	83	232	237,5	237,5	240	172	313	403	475	845	104	144
FCS 65-250/220	65	65	119	83	232	237,5	237,5	240	172	313	403	475	845	104	154
FCS 80-125/30	80	80	90	90	222	175	185	134	148	174	287	360	610	102	82
FCS 80-125/40	80	80	90	90	222	175	185	154	148	197	293	360	631	102	83
FCS 80-125/55	80	80	90	90	249	175	185	168	148	214	307	360	714	102	86
FCS 80-160/75	80	80	90	90	249	175	185	191	148	256	330	360	706	102	102
FCS 80-200/110	80	80	130	90	248	250	250	191	184	256	354	500	806	112	130
FCS 80-200/150	80	80	130	90	248	250	250	240	184	313	403	500	872	112	140
FCS 80-200/185	80	80	130	90	248	250	250	240	184	313	403	500	872	112	150
FCS 80-200/220	80	80	130	90	248	250	250	240	184	313	403	500	872	112	162
FCS 100-160/110	100	100	105	105	289	225	225	191	172	256	330	450	822	117	135
FCS 100-200/185	100	100	140	105	259	275	275	240	196	313	406	550	893	129	190
FCS 100-200/220	100	100	140	105	259	275	275	240	196	313	406	550	893	129	202

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FCS4 SERIES
Dimensions and weights at 50 Hz







PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

(1) R 1/8 AIR VALVE

(2) R 3/8 PRESSURE GAUGE CONNECTOR

(3) G 3/8 GAUGE

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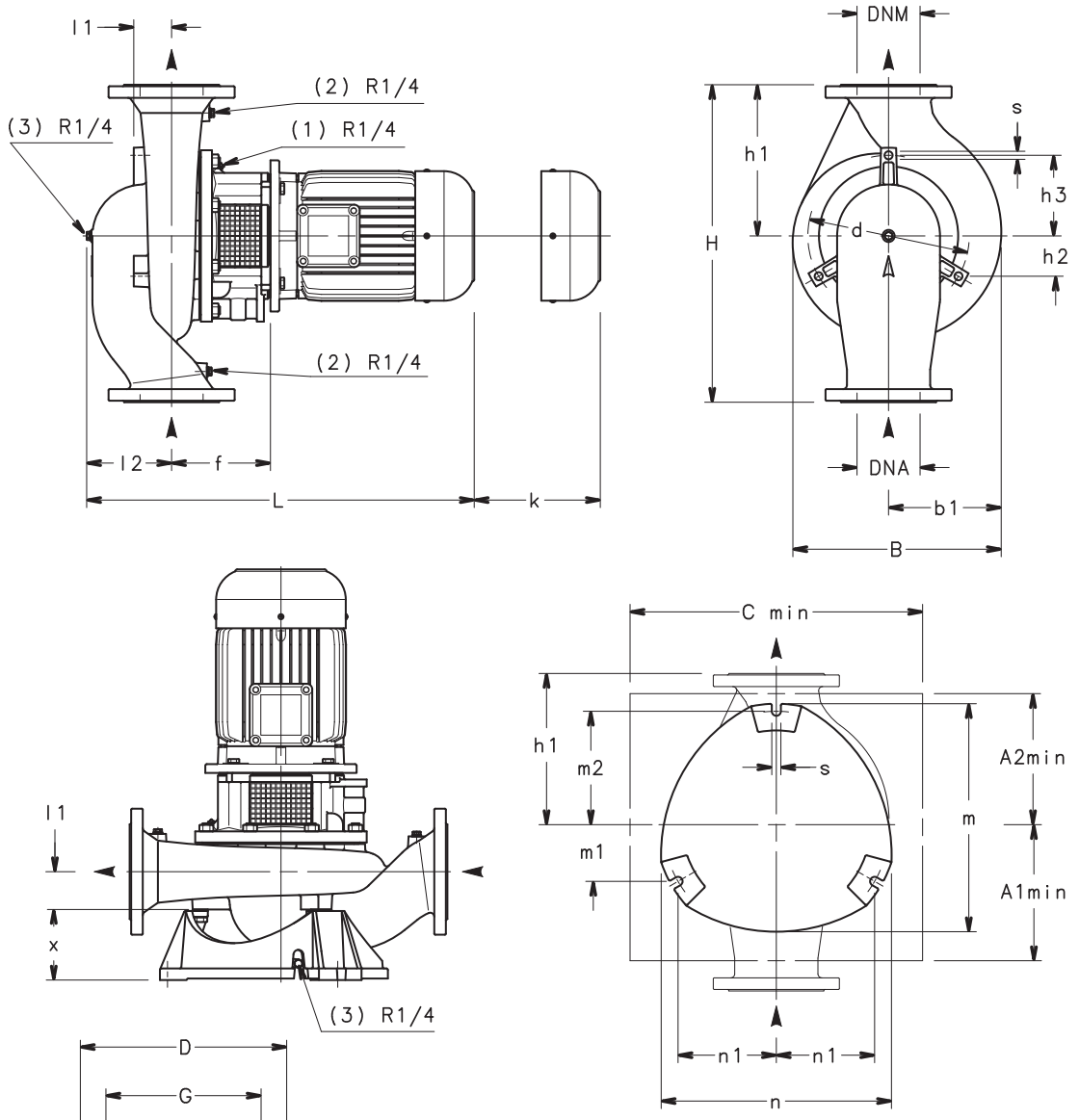
FCS4 SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	DIMENSIONS (mm)														WEIGHT
	DNA	DNM	a	e	f	h1	h2	x	b1	p	B	H max	L	k	kg
FCS4 40-200/05	40	40	95	65	155	220	220	129	163	155	325	440	513	98	56
FCS4 40-200/07	40	40	95	65	155	220	220	128	163	159	325	440	481	98	60
FCS4 40-250/11	40	40	95	65	155	220	220	134	163	174	325	440	548	98	67
FCS4 40-250/15	40	40	95	65	155	220	220	134	163	174	325	440	548	98	69
FCS4 50-200/07	50	50	110	73	169	220	220	128	163	159	326	440	510	100	63
FCS4 50-200/11	50	50	110	73	169	220	220	134	163	174	326	440	577	100	72
FCS4 50-250/15	50	50	110	73	169	220	220	134	163	174	326	440	577	100	73
FCS4 50-250/22	50	50	110	73	179	220	220	168	163	214	331	440	611	100	78
FCS4 65-160/07	65	65	77	83	185	170	170	128	137	159	274	340	499	92	49
FCS4 65-160/11	65	65	77	83	185	170	170	134	137	174	274	340	566	92	55
FCS4 65-200/15	65	65	119	83	165	237,5	237,5	134	172	174	335	475	582	104	72
FCS4 65-250/22	65	65	119	83	175	237,5	237,5	168	172	214	335	475	616	104	84
FCS4 65-250/30	65	65	119	83	175	237,5	237,5	168	172	214	335	475	647	104	87
FCS4 80-125/07	80	80	90	90	212	175	185	128	148	159	287	360	533	102	55
FCS4 80-125/11	80	80	90	90	212	175	185	134	148	174	287	360	600	102	66
FCS4 80-200/15	80	80	130	90	181	250	250	134	184	174	347	500	609	112	92
FCS4 80-200/22	80	80	130	90	191	250	250	168	184	214	347	500	643	112	95
FCS4 80-200/30	80	80	130	90	191	250	250	168	184	214	347	500	674	112	97
FCS4 80-250/40	80	80	130	90	191	250	250	168	184	214	347	500	719	112	125
FCS4 80-250/55	80	80	130	90	218	250	250	191	184	256	354	500	753	112	129
FCS4 100-160/15	100	100	105	105	221	225	225	134	172	174	311	450	625	117	78
FCS4 100-200/22	100	100	140	105	202	275	275	168	196	214	362	550	664	129	85
FCS4 100-200/30	100	100	140	105	202	225	275	168	196	214	362	550	695	129	88
FCS4 100-250/40	100	100	140	105	202	275	275	168	196	214	362	550	740	129	140
FCS4 100-250/55	100	100	140	105	229	275	275	191	196	256	362	550	774	129	142
FCS4 100-250/75	100	100	140	105	229	275	275	191	196	256	362	550	774	129	147

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Black and white technical books available
see www.lowara.it

FCS4 (125÷150) SERIES
Dimensions and weights at 50 Hz



(1) R 1/4 AIR VALVE

(2) R 1/4 PRESSURE GAUGE CONNECTOR

(3) G 1/4 DRAIN

PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
125	250	210	188	8	18	26
150	285	240	212	8	23	26

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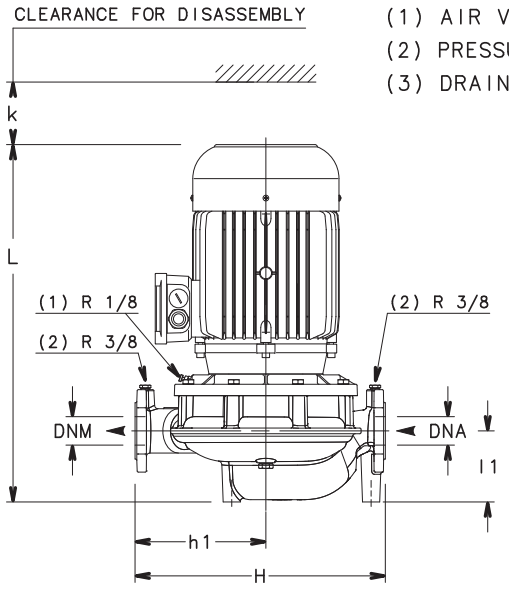
FCS4 (125÷150) SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	DIMENSIONS (mm) PUMP														WEIGHT
	DNA	DNM	b1	d	f	h1	h2	h3	l1	l2	B	H max	L	k	kg
FCS4 125-160/30	125	125	234	274	196	315	68	137	85	161	418	630	710	143	132
FCS4 125-200/40	125	125	202	274	196	290	68	137	80	164	378	620	758	153	133
FCS4 125-200/55	125	125	202	274	196	290	68	137	80	164	378	620	765	153	154
FCS4 125-250/75	125	125	220	320	196	300	80	160	75	168	422	630	769	150	167
FCS4 125-250/110	125	125	220	320	226	300	80	160	75	168	422	630	888	150	231
FCS4 125-315/150	125	125	262	320	226	350	80	160	130	229	503	775	948	160	298
FCS4 125-315/185	125	125	262	320	226	350	80	160	130	229	503	775	1009	160	334
FCS4 125-315/220	125	125	262	320	226	350	80	160	130	229	503	775	1047	160	356
FCS4 150-200/55	150	150	260	320	211	340	80	160	90	178	468	720	794	160	126
FCS4 150-200/75	150	150	260	320	211	340	80	160	90	178	468	720	794	160	177
FCS4 150-250/110	150	150	276	320	226	365	80	160	85	188	504	755	908	158	255
FCS4 150-250/150	150	150	276	320	226	365	80	160	85	188	504	755	908	158	268
FCS4 150-250/185	150	150	276	320	226	365	80	160	85	188	504	755	968	158	294

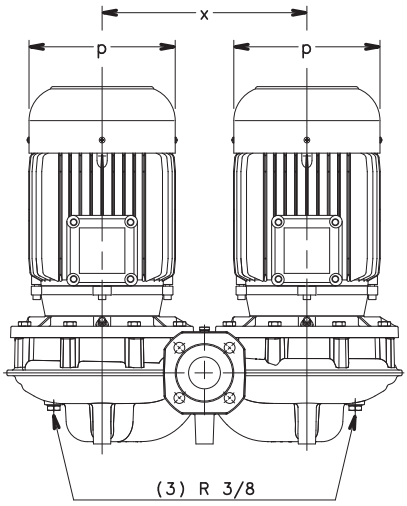
PUMP TYPE	DIMENSIONS (mm) SUPPORT FOOT									
	A1	A2	C	m	m1	m2	n	n1	s	x
FCS4 125-160/30	230	250	480	388	96	192	389	166	M16	120
FCS4 125-200/40	230	250	480	388	96	192	389	166	M16	120
FCS4 125-200/55	230	250	480	388	96	192	389	166	M16	120
FCS4 125-250/75	270	300	580	453	112	225	457	195	M16	140
FCS4 125-250/110	270	300	580	453	112	225	457	195	M16	140
FCS4 125-315/150	270	300	580	453	112	225	457	195	M16	140
FCS4 125-315/185	270	300	580	453	112	225	457	195	M16	140
FCS4 125-315/220	270	300	580	453	112	225	457	195	M16	140
FCS4 150-200/55	270	300	580	453	112	225	457	195	M16	140
FCS4 150-200/75	270	300	580	453	112	225	457	195	M16	140
FCS4 150-250/110	270	300	580	453	112	225	457	195	M16	140
FCS4 150-250/150	270	300	580	453	112	225	457	195	M16	140
FCS4 150-250/185	270	300	580	453	112	225	457	195	M16	140

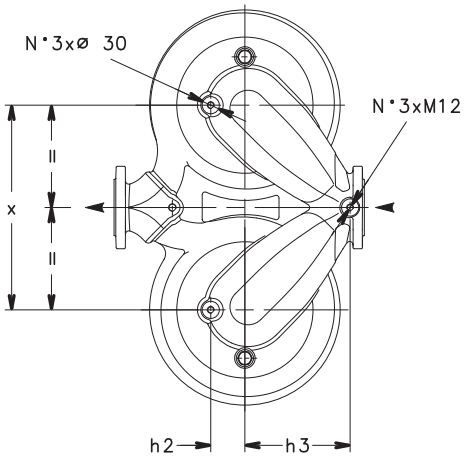
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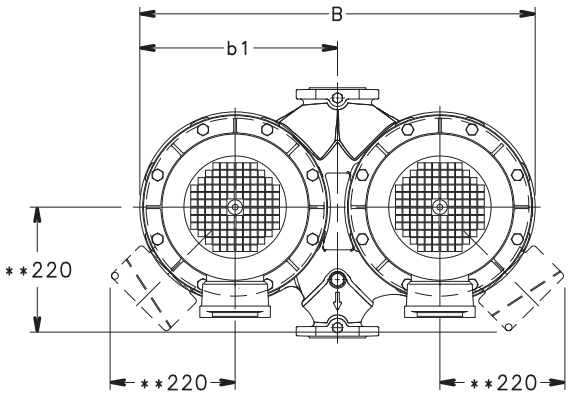
FCTE SERIES
Dimensions and weights at 50 Hz



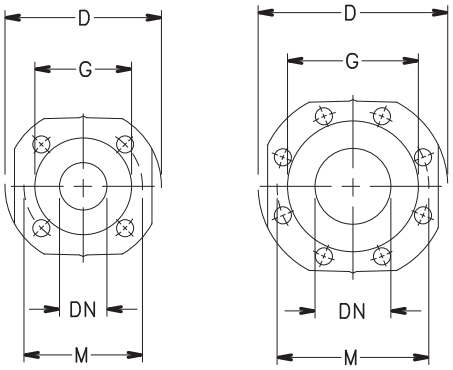
(1) AIR VALVE
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN







** ONLY FOR MODELS WITH
15-18.5-22 kW MOTORS



PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				N°	DIA.	THICKNESS
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

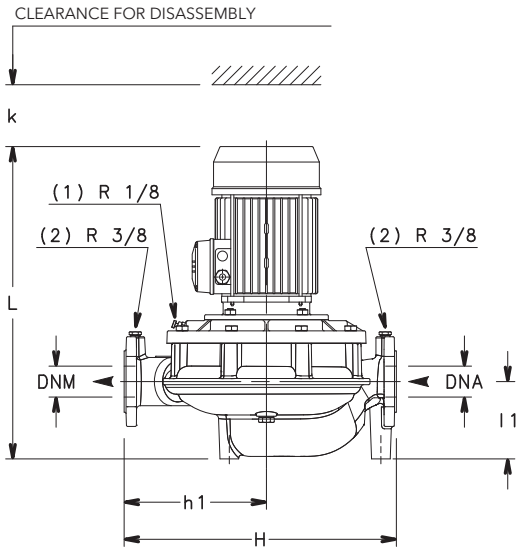
05204-EN_B_DD

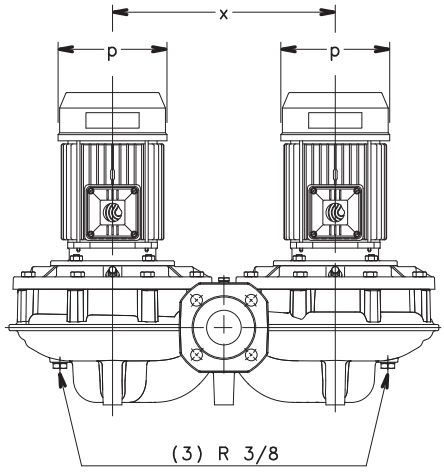
FCTE SERIES
Dimensions and weights at 50 Hz

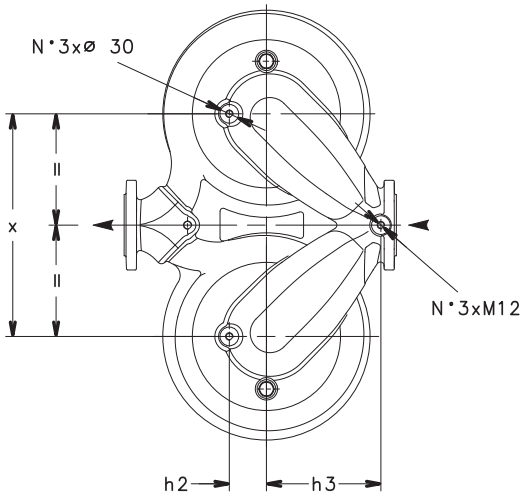
PUMP TYPE	DIMENSIONS (mm)													WEIGHT
	DNA	DNM	b1	h1	h2	h3	l1	p	x	B	H	L	k	kg
FCTE 40-125/07	40	40	245	170	50	120	89	155	250	490	320	452	90	59
FCTE 40-125/11	40	40	245	170	50	120	89	155	250	490	320	452	90	61
FCTE 40-160/15	40	40	245	170	50	120	89	174	250	490	320	487	90	67
FCTE 40-160/22	40	40	245	170	50	120	89	174	250	490	320	487	90	69
FCTE 40-200/40A	40	40	348	220	50	190	97	197	360	695	440	516	101	139
FCTE 40-200/40	40	40	348	220	50	190	97	197	360	695	440	516	101	139
FCTE 40-200/55	40	40	348	220	50	190	97	214	360	695	440	550	101	141
FCTE 40-250/75	40	40	348	220	50	190	97	256	360	695	440	564	101	177
FCTE 40-250/110	40	40	348	220	50	190	97	256	360	695	440	602	101	179
FCTE 50-125/11	50	50	250	180	55	130	92	155	260	500	340	457	91	60
FCTE 50-125/15	50	50	250	180	55	130	92	174	260	500	340	492	91	70
FCTE 50-160/22	50	50	250	180	55	130	92	174	260	500	340	492	91	82
FCTE 50-160/30	50	50	250	180	55	130	92	174	260	500	340	491	91	85
FCTE 50-160/40	50	50	250	180	55	130	92	197	260	500	340	512	91	91
FCTE 50-200/55	50	50	348	230	60	185	125	214	360	695	440	578	110	108
FCTE 50-200/75	50	50	348	230	60	185	125	256	360	695	440	592	110	140
FCTE 50-250/92	50	50	348	230	60	185	125	256	360	695	440	630	110	198
FCTE 50-250/110	50	50	348	230	60	185	125	256	360	695	440	630	110	210
FCTE 50-250/150	50	50	348	230	60	185	125	313	360	695	440	719	110	226
FCTE 65-125/22	65	65	297	185	55	125	108	174	310	593	340	509	96	108
FCTE 65-125/30	65	65	297	185	55	125	108	174	310	593	340	509	96	113
FCTE 65-125/40	65	65	297	185	55	125	108	197	310	593	340	530	96	121
FCTE 65-160/55	65	65	297	185	55	125	108	214	310	593	340	564	96	137
FCTE 65-160/75	65	65	297	185	55	125	108	256	310	593	340	578	96	171
FCTE 65-200/92	65	65	348	260	59	185	130	256	360	695	475	635	109	202
FCTE 65-200/110	65	65	348	260	59	185	130	256	360	695	475	635	109	216
FCTE 65-250/150	65	65	348	260	59	185	130	313	360	695	475	724	109	248
FCTE 65-250/185	65	65	348	260	59	185	130	313	360	695	475	724	109	252
FCTE 65-250/220	65	65	348	260	59	185	130	313	360	695	475	724	109	272
FCTE 80-125/30	80	80	304	210	70	110	141	174	320	607	400	548	106	127
FCTE 80-125/40	80	80	304	210	70	110	141	197	320	607	400	569	106	133
FCTE 80-125/55	80	80	304	210	70	110	141	214	320	607	400	603	106	137
FCTE 80-160/75	80	80	304	210	70	110	141	256	320	607	400	617	106	169
FCTE 80-200/110	80	80	368	280	80	140	157	256	380	722	500	662	112	231
FCTE 80-200/150	80	80	368	280	80	140	157	313	380	722	500	751	112	251
FCTE 80-200/185	80	80	368	280	80	140	157	313	380	722	500	751	112	271
FCTE 80-200/220	80	80	368	280	80	140	157	313	380	722	500	751	112	295
FCTE 100-160/110	100	100	340	270	72	150	175	256	360	670	500	681	118	252
FCTE 100-200/185	100	100	408	310	80	150	180	313	410	798	550	774	128	363
FCTE 100-200/220	100	100	408	310	80	150	180	313	410	798	550	774	128	387

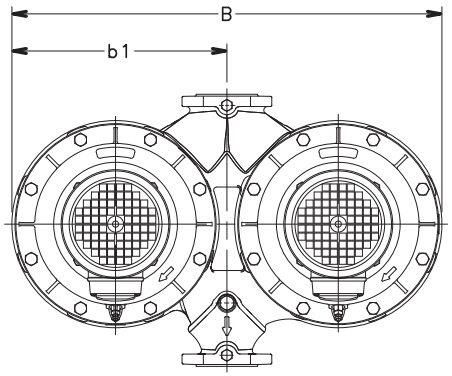
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FCTE4 SERIES
Dimensions and weights at 50 Hz

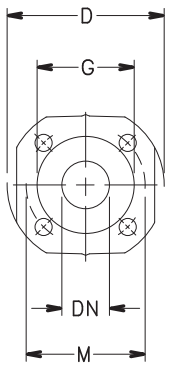


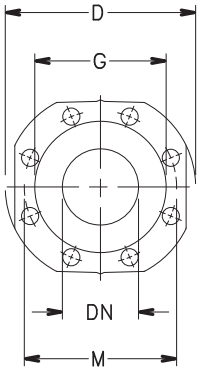






(1) AIR VALVE
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN





PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

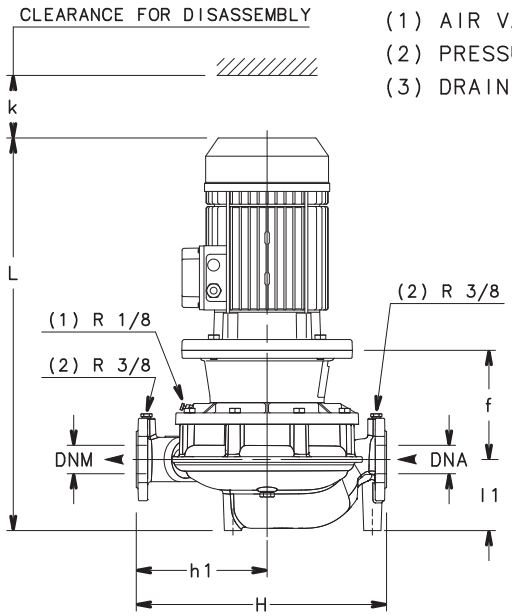
05205_A_DD

FCTE4 SERIES
Dimensions and weights at 50 Hz

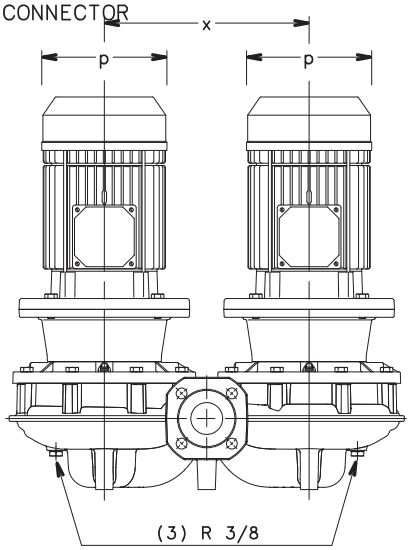
PUMP TYPE	DIMENSIONS (mm)													WEIGHT
										B	H	L	k	
	DNA	DNM	b1	h1	h2	h3	l1	p	x					kg
FCTE4 40-125/02A	40	40	245	170	50	120	89	140	250	490	320	420	90	46
FCTE4 40-125/02	40	40	245	170	50	120	89	140	250	490	320	420	90	46
FCTE4 40-160/02	40	40	245	170	50	120	89	140	250	490	320	420	90	48
FCTE4 40-160/03	40	40	245	170	50	120	89	140	250	490	320	420	90	50
FCTE4 40-200/05	40	40	348	220	50	190	97	155	360	695	440	460	101	83
FCTE4 40-200/07	40	40	348	220	50	190	97	159	360	695	440	428	101	86
FCTE4 40-250/11	40	40	348	220	50	190	97	174	360	695	440	495	101	123
FCTE4 40-250/15	40	40	348	220	50	190	97	174	360	695	440	495	101	125
FCTE4 50-125/02	50	50	250	180	55	130	92	140	260	500	340	425	91	49
FCTE4 50-125/03	50	50	250	180	55	130	92	140	260	500	340	425	91	51
FCTE4 50-160/05	50	50	250	180	55	130	92	155	260	500	340	457	91	53
FCTE4 50-200/07	50	50	348	230	60	185	125	159	360	695	440	456	110	105
FCTE4 50-200/11	50	50	348	230	60	185	125	174	360	695	440	523	110	122
FCTE4 50-250/15	50	50	348	230	60	185	125	174	360	695	440	523	110	128
FCTE4 50-250/22	50	50	348	230	60	185	125	214	360	695	440	547	110	140
FCTE4 65-125/03	65	65	297	185	55	125	108	140	310	593	340	442	96	75
FCTE4 65-125/05	65	65	297	185	55	125	108	155	310	593	340	474	96	83
FCTE4 65-160/07	65	65	297	185	55	125	108	159	310	593	340	442	96	94
FCTE4 65-160/11	65	65	297	185	55	125	108	174	310	593	340	509	96	107
FCTE4 65-200/15	65	65	348	260	59	185	130	174	360	695	475	528	109	130
FCTE4 65-250/22	65	65	348	260	59	185	130	214	360	695	475	552	109	152
FCTE4 65-250/30	65	65	348	260	59	185	130	214	360	695	475	583	109	156
FCTE4 80-125/07	80	80	304	210	70	110	141	159	320	607	400	481	106	101
FCTE4 80-125/11	80	80	304	210	70	110	141	174	320	607	400	548	106	116
FCTE4 80-200/15	80	80	368	280	80	140	157	174	380	722	500	555	112	153
FCTE4 80-200/22	80	80	368	280	80	140	157	214	380	722	500	579	112	165
FCTE4 80-200/30	80	80	368	280	80	140	157	214	380	722	500	610	112	173
FCTE4 80-250/40	80	80	368	280	80	140	157	214	380	722	500	655	112	225
FCTE4 80-250/55	80	80	368	280	80	140	157	256	380	722	500	662	112	241
FCTE4 100-160/15	100	100	340	270	72	150	175	174	360	670	500	574	118	146
FCTE4 100-200/22	100	100	408	310	80	150	180	214	410	798	550	602	128	201
FCTE4 100-200/30	100	100	408	310	80	150	180	214	410	798	550	633	128	205
FCTE4 100-250/40	100	100	408	310	80	150	180	214	410	798	550	678	128	253
FCTE4 100-250/55	100	100	408	310	80	150	180	256	410	798	550	685	128	265
FCTE4 100-250/75	100	100	408	310	80	150	180	256	410	798	550	685	128	285

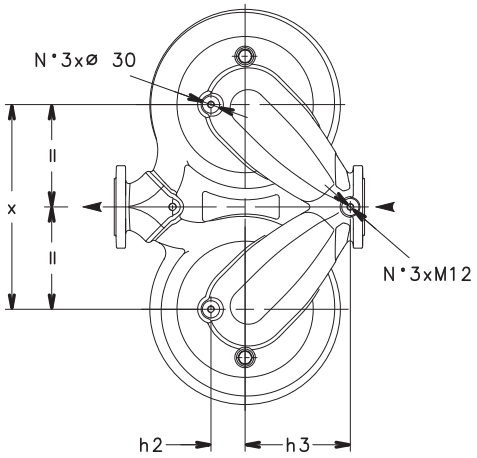
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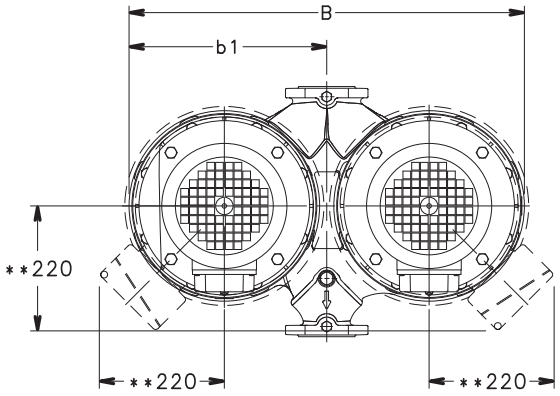
FCTS SERIES
Dimensions and weights at 50 Hz



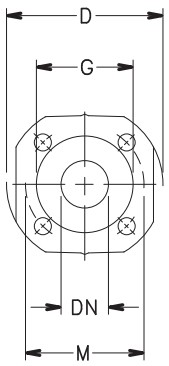
(1) AIR VALVE
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN

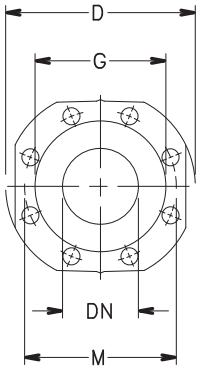






** ONLY FOR MODELS WITH
15-18.5-22 kW MOTORS





PUMP FLANGES

DN	D	M	G	HOLES		MAX.
				Nº	DIA.	THICKNESS
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

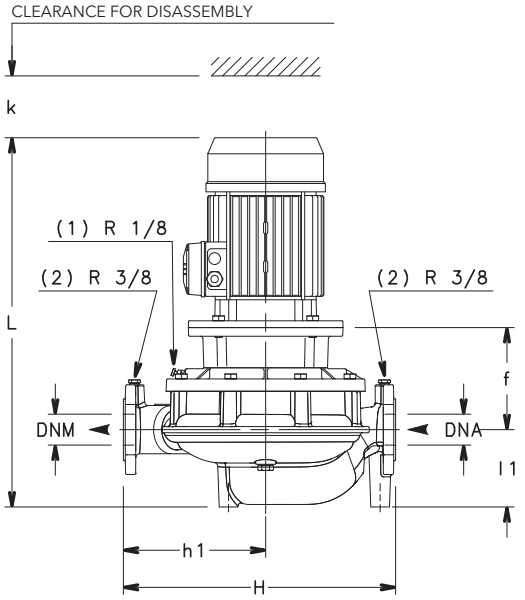
05253-EN_C_DD

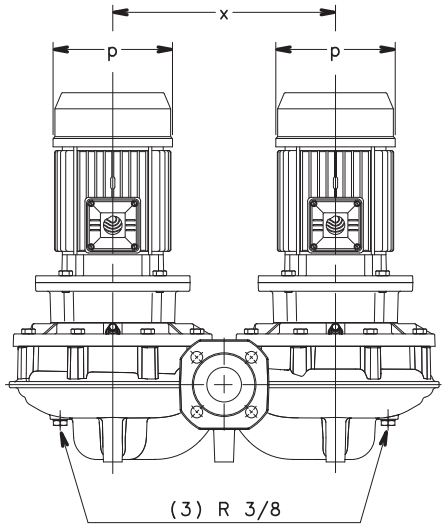
FCTS SERIES
Dimensions and weights at 50 Hz

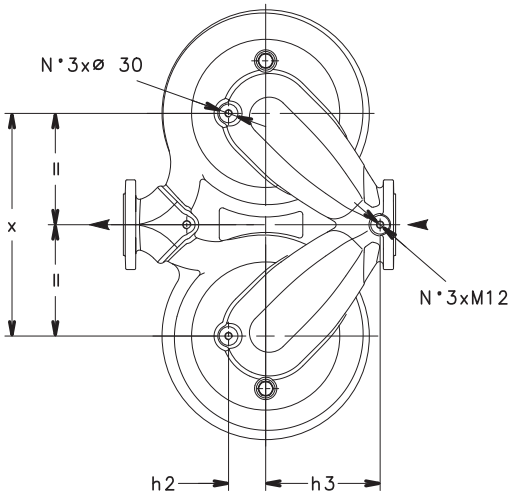
PUMP TYPE	DIMENSIONS (mm)														WEIGHT
											B	H	L	k	
	DNA	DNM	b1	f	h1	h2	h3	l1	p	x					kg
FCTS 40-125/07	40	40	245	155	170	50	120	89	155	250	490	320	507	90	65
FCTS 40-125/11	40	40	245	155	170	50	120	89	155	250	490	320	507	90	67
FCTS 40-160/15	40	40	245	155	170	50	120	89	174	250	490	320	542	90	73
FCTS 40-160/22	40	40	245	155	170	50	120	89	174	250	490	320	542	90	77
FCTS 40-200/30	40	40	348	165	220	50	190	97	174	360	695	440	560	101	133
FCTS 40-200/40	40	40	348	165	220	50	190	97	197	360	695	440	581	101	145
FCTS 40-200/55	40	40	348	192	220	50	190	97	214	360	695	440	664	101	171
FCTS 40-250/75	40	40	348	192	220	50	190	97	256	360	695	440	656	101	207
FCTS 40-250/110	40	40	348	222	220	50	190	97	256	360	695	440	747	101	235
FCTS 50-125/11	50	50	250	156	180	55	130	92	155	260	500	340	511	91	70
FCTS 50-125/15	50	50	250	156	180	55	130	92	174	260	500	340	546	91	78
FCTS 50-160/22	50	50	250	156	180	55	130	92	174	260	500	340	546	91	94
FCTS 50-160/30	50	50	250	166	180	55	130	92	174	260	500	340	556	91	95
FCTS 50-160/40	50	50	250	166	180	55	130	92	197	260	500	340	577	91	109
FCTS50-200/55	50	50	348	192	230	60	185	125	214	360	695	440	692	110	178
FCTS 50-200/75	50	50	348	192	230	60	185	125	256	360	695	440	684	110	212
FCTS 50-250/110A	50	50	348	222	230	60	185	125	256	360	695	440	775	110	226
FCTS 50-250/110	50	50	348	222	230	60	185	125	256	360	695	440	775	110	226
FCTS 50-250/150	50	50	348	222	230	60	185	125	313	360	695	440	841	110	246
FCTS 65-125/22	65	65	297	158	185	55	125	108	174	310	593	340	564	96	138
FCTS 65-125/30	65	65	297	168	185	55	125	108	174	310	593	340	574	96	123
FCTS 65-125/40	65	65	297	168	185	55	125	108	197	310	593	340	595	96	133
FCTS 65-160/55	65	65	297	195	185	55	125	108	214	310	593	340	678	96	159
FCTS 65-160/75	65	65	297	195	185	55	125	108	256	310	593	340	670	96	189
FCTS 65-200/110A	65	65	348	222	260	59	185	130	256	360	695	475	780	109	258
FCTS 65-200/110	65	65	348	222	260	59	185	130	256	360	695	475	780	109	258
FCTS 65-250/150	65	65	348	222	260	59	185	130	313	360	695	475	846	109	260
FCTS 65-250/185	65	65	348	222	260	59	185	130	313	360	695	475	846	109	272
FCTS 65-250/220	65	65	348	222	260	59	185	130	313	360	695	475	846	109	292
FCTS 80-125/30	80	80	304	174	210	70	110	141	174	320	607	400	613	106	162
FCTS 80-125/40	80	80	304	174	210	70	110	141	197	320	607	400	634	106	164
FCTS 80-125/55	80	80	304	201	210	70	110	141	214	320	607	400	717	106	170
FCTS 80-160/75	80	80	304	201	210	70	110	141	256	320	607	400	709	106	202
FCTS 80-200/110	80	80	368	222	280	80	140	157	256	380	722	500	807	112	251
FCTS 80-200/150	80	80	368	222	280	80	140	157	313	380	722	500	873	112	271
FCTS 80-200/185	80	80	368	222	280	80	140	157	313	380	722	500	873	112	291
FCTS 80-200/220	80	80	368	222	280	80	140	157	313	380	722	500	873	112	315
FCTS 100-160/110	100	100	340	223	270	72	150	175	256	360	670	500	826	118	268
FCTS 100-200/185	100	100	408	222	310	80	150	180	313	410	798	550	896	128	384
FCTS 100-200/220	100	100	408	222	310	80	150	180	313	410	798	550	896	128	407

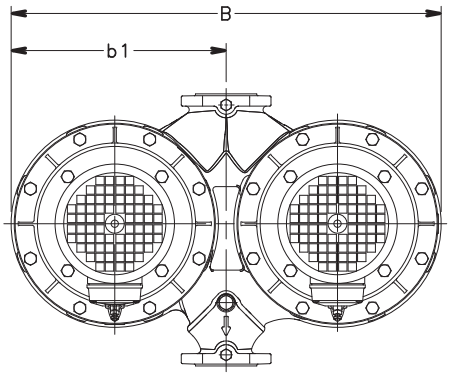
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FCTS4 SERIES
Dimensions and weights at 50 Hz

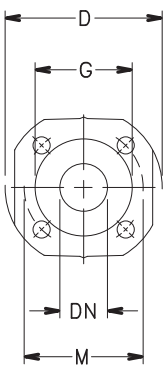


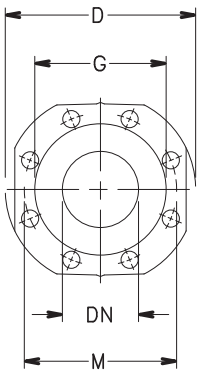






(1) AIR VALVE
(2) PRESSURE GAUGE CONNECTOR
(3) DRAIN





PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				Nº	DIA.	MAX.
40	150	110	88	4	18	18
50	165	125	102	4	18	20
65	185	145	122	4	18	20
80	200	160	138	8	18	22
100	220	180	158	8	18	22

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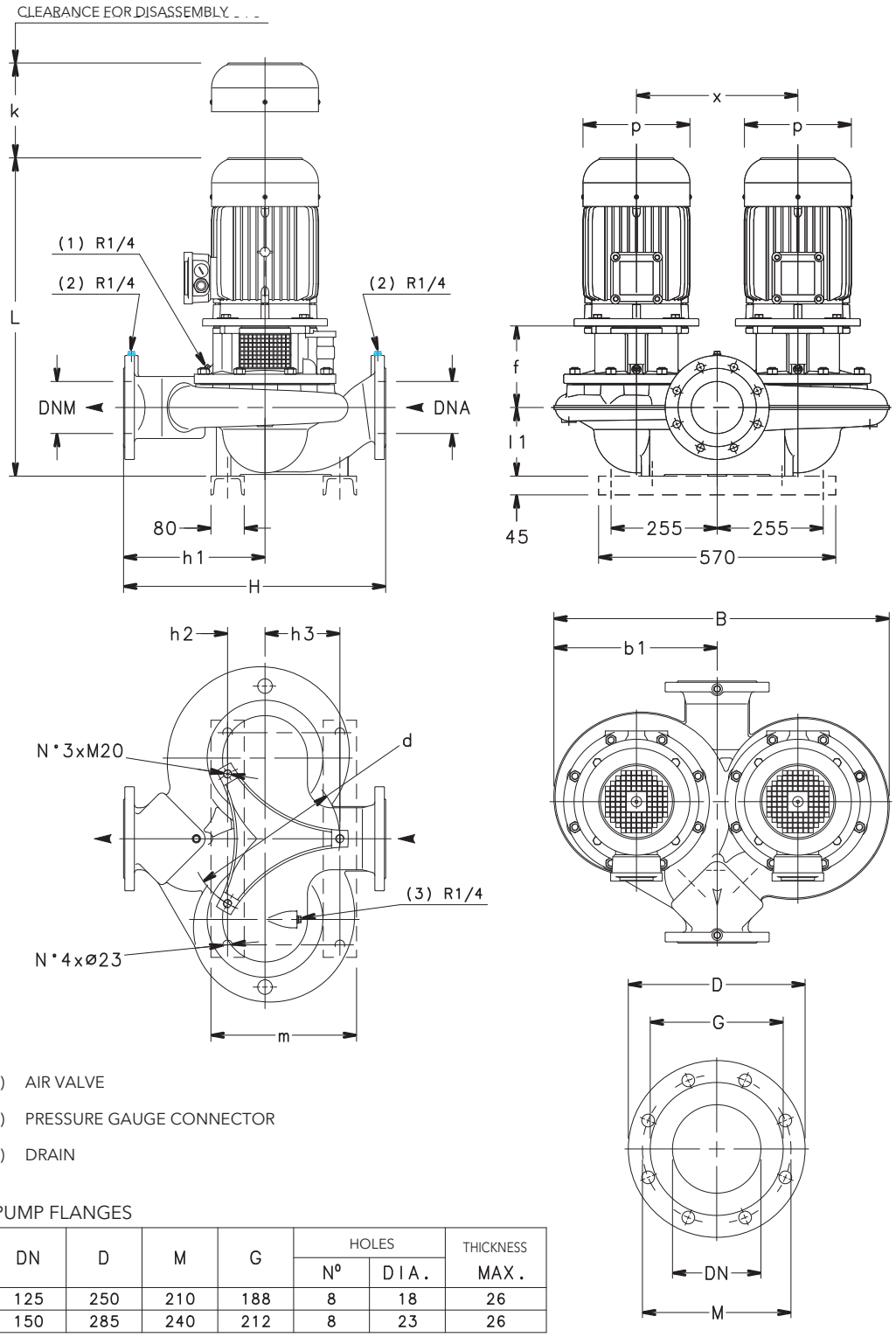
FCTS4 SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	DIMENSIONS (mm)														WEIGHT
	DNA	DNM	b1	f	h1	h2	h3	l1	p	x	B	H max	L	k	kg
FCTS4 40-200/05	40	40	348	155	220	50	190	97	155	360	695	440	515	101	107
FCTS4 40-200/07	40	40	348	155	220	50	190	97	159	360	695	440	483	101	116
FCTS4 40-250/11	40	40	348	155	220	50	190	97	174	360	695	440	550	101	129
FCTS4 40-250/15	40	40	348	155	220	50	190	97	174	360	695	440	550	101	133
FCTS4 50-200/07	50	50	348	155	230	60	185	125	159	360	695	440	511	110	123
FCTS4 50-200/11	50	50	348	155	230	60	185	125	174	360	695	440	578	110	140
FCTS4 50-250/15	50	50	348	155	230	60	185	125	174	360	695	440	578	110	142
FCTS4 50-250/22	50	50	348	165	230	60	185	125	214	360	695	440	612	110	152
FCTS4 65-160/07	65	65	297	158	185	55	125	108	159	310	593	340	497	96	98
FCTS4 65-160/11	65	65	297	158	185	55	125	108	174	310	593	340	564	96	109
FCTS4 65-200/15	65	65	348	155	260	59	185	130	174	360	695	475	583	109	136
FCTS4 65-250/22	65	65	348	165	260	59	185	130	214	360	695	475	617	109	160
FCTS4 65-250/30	65	65	348	165	260	59	185	130	214	360	695	475	648	109	166
FCTS4 80-125/07	80	80	304	164	210	70	110	141	159	320	607	400	536	106	109
FCTS4 80-125/11	80	80	304	164	210	70	110	141	174	320	607	400	603	106	130
FCTS4 80-200/15	80	80	368	155	280	80	140	157	174	380	722	500	610	112	175
FCTS4 80-200/22	80	80	368	165	280	80	140	157	214	380	722	500	644	112	181
FCTS4 80-200/30	80	80	368	165	280	80	140	157	214	380	722	500	675	112	185
FCTS4 80-250/40	80	80	368	165	280	80	140	157	214	380	722	500	720	112	241
FCTS4 80-250/55	80	80	368	192	280	80	140	157	256	380	722	500	754	112	249
FCTS4 100-160/15	100	100	340	156	270	72	150	175	174	360	670	500	629	118	154
FCTS4 100-200/22	100	100	408	165	310	80	150	180	214	410	798	550	667	128	173
FCTS4 100-200/30	100	100	408	165	310	80	150	180	214	410	798	550	698	128	179
FCTS4 100-250/40	100	100	408	165	310	80	150	180	214	410	798	550	743	128	283
FCTS4 100-250/55	100	100	408	192	310	80	150	180	256	410	798	550	777	128	287
FCTS4 100-250/75	100	100	408	192	310	80	150	180	256	410	798	550	777	128	297

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FCTS4 (125÷150) SERIES
Dimensions and weights at 50 Hz



(1) AIR VALVE

(2) PRESSURE GAUGE CONNECTOR

(3) DRAIN

PUMP FLANGES

DN	D	M	G	HOLES		THICKNESS
				N°	DIA.	MAX.
125	250	210	188	8	18	26
150	285	240	212	8	23	26

FCTS4 (125÷150) SERIES
Dimensions and weights at 50 Hz

PUMP TYPE	PUMP DIMENSIONS (mm)																WEIGHT
	DNA	DNM	b1	d	f	h_1	h_2	h_3	l_1	m	p	x	B	H	L	k	kg
FCTS4 125-160/30	125	125	422	360	196	350	90	180	175	350	214	386	800	630	724	143	254
FCTS4 125-200/40	125	125	368	360	196	330	90	180	160	350	214	349	716	620	754	153	252
FCTS4 125-200/55	125	125	368	360	196	330	90	180	160	350	256	349	716	620	761	153	294
FCTS4 125-250/75	125	125	412	360	196	340	90	180	165	350	256	388	805	630	766	150	325
FCTS4 125-250/110	125	125	412	360	226	340	90	180	165	350	313	388	805	630	885	150	453
FCTS4 150-200/55	150	150	471	460	211	400	115	230	175	425	256	440	900	720	791	160	356
FCTS4 150-200/75	150	150	471	460	211	400	115	230	175	425	256	440	900	720	791	160	350
FCTS4 150-250/110	150	150	498	460	226	405	115	230	200	425	313	466	963	755	920	158	532
FCTS4 150-250/150	150	150	498	460	226	405	115	230	200	425	313	466	963	755	920	158	538
FCTS4 150-250/185	150	150	498	460	226	405	115	230	200	425	360	466	963	755	980	158	610

lmz_fcts4-4p50-en_d_td

Black and white technical books available
see www.lowara.it

Drainage and Sewage Pumps 3

DOC SERIES
Submersible pumps for clean and dirty water 299

DIWA SERIES
Submersible pumps for clean and dirty water 304

DN SERIES
Submersible pumps for dirty water 308

DOMO SERIES
Submersible pumps for solid-laden waste water 311

DL SERIES
Submersible pumps for solid-laden waste water 319

GLS SERIES
Submersible pumps for solid-laden waste water 324

GLV SERIES
Submersible pumps for solid-laden waste water 326

MINIBOX SERIES
Lifting stations for domestic effluent 328

MIDIBOX SERIES
Listing stations for domestic effluent 331

SINGLEBOX PLUS SERIES
Listing stations for dirty water with 1 or 2 pumps 334

DOUBLEBOX PLUS SERIES
Listing stations for dirty water with 1 or 2 pumps 340

MAXIBOX SERIES
Listing stations for dirty water with 1 or 2 pumps 348

DOC Series

Submersible pumps for clean and dirty water. Corrosion-resistant and compact, they are available in three versions with channel or Vortex impellers. Supplied with or without float switch. Built-in capacitor. The motor is cooled by the pumped liquid and thermal overload protection to protect the pump in case of overheating.

Specifications

Delivery: up to 14 m^3/h
Head: up to 11 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.25 kW to 0.55 kW
Maximum immersion depth: 5 m
Temperature of pumped liquid: 0°C to +40°C
Liquids with suspended solids: DOC 3 and DOC 7 up to 10 mm, DOC 7VX up to 20 mm
Insulation class: B
Protection: IP68
Length of cable:
5 m (for internal use)
10 m (for external use)

Materials

Pump body: Noryl®
Suction screen: Noryl®
Handle: Noryl®
Upper support: Noryl®
Impeller: Noryl®
Outer sleeve: Stainless steel
Motor casing: Stainless steel
Lower cover: Stainless steel
Screws and tie-rods: Stainless steel
Shaft extension: Stainless steel
Elastomers: NBR

Applications

Emptying of residential sump pits, rain water tanks

Garden and lawn irrigation

Emptying of tanks or reservoirs

Emergency draining of flooded areas or rooms

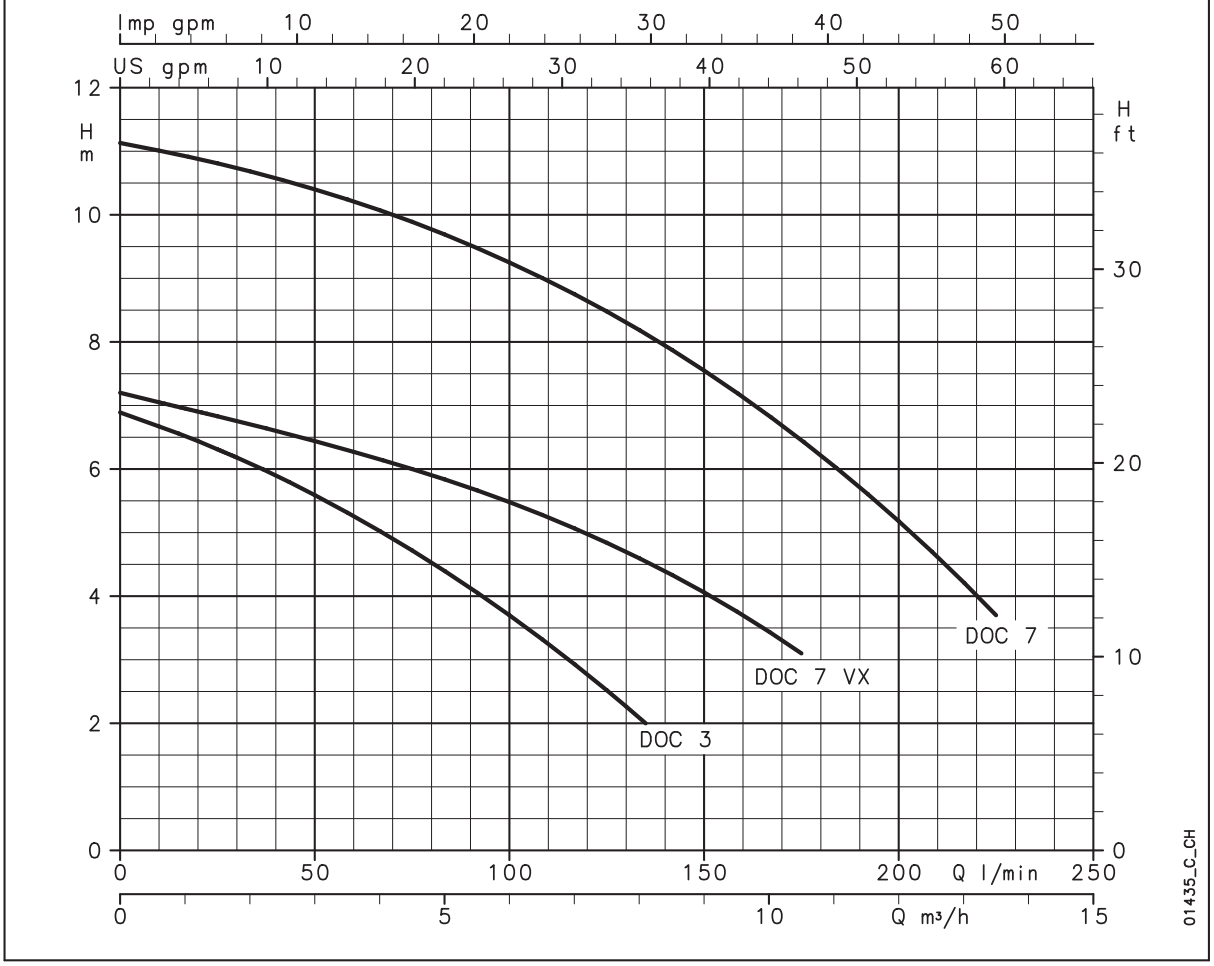
Available on request: “shallow suction device” (for DOC 3 and DOC 7) assuring complete drainage of flooded floors (up to 3 mm from floor)



For a complete list of technical information, consult www.lowara.com

DOC SERIES
Operating characteristics at 50 Hz

DOC	~ 2850 rpm	ISO 9906-Annex A



DOC SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY								
			l/min	0	25	50	75	100	125	135	175	225
			m^3/h	0	1,5	3	4,5	6	7,5	8,1	10,5	13,5
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)									
DOC3	0,25	0,33	6,9	6,3	5,6	4,7	3,7	2,5	2,0		
DOC7(T)	0,55	0,75	11,1	10,8	10,4	9,9	9,3	8,5	8,1	6,5	3,7
DOC7VX(T)	0,55	0,75	7,2	6,8	6,4	6,0	5,5	4,8	4,5	3,1	

These performances are valid for liquids with density $\rho = 1.0$ kg/dm³ and kinematic viscosity $\nu = 1$ mm²/s.

doc-2p50_b_th

Electrical data

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V
DOC 3	0,31	1,43	6,3
DOC 7	0,78	3,47	16
DOC 7VX	0,66	2,96	16

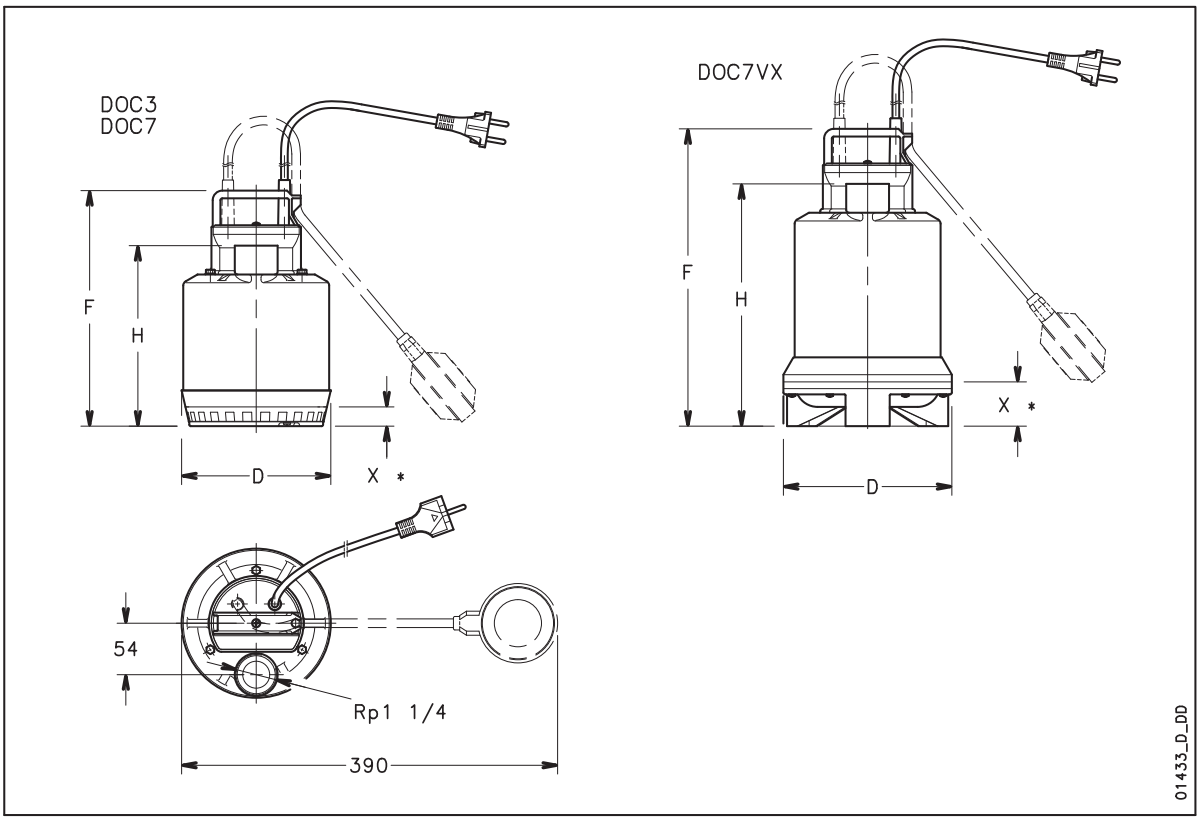
PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
-	-	-	-
DOC 7T	0,79	2,82	1,63
DOC 7VXT	0,66	2,68	1,55

*Maximum value in specified range

doc-2p50_a_te

Black and white technical books available
see www.lowara.it

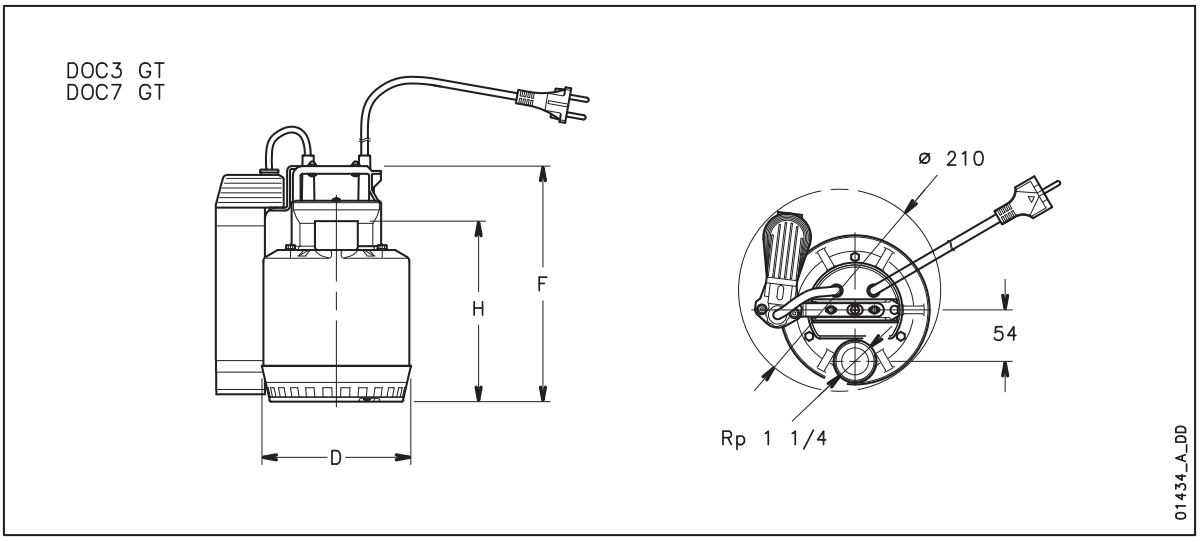
DOC SERIES
Dimensions and weights



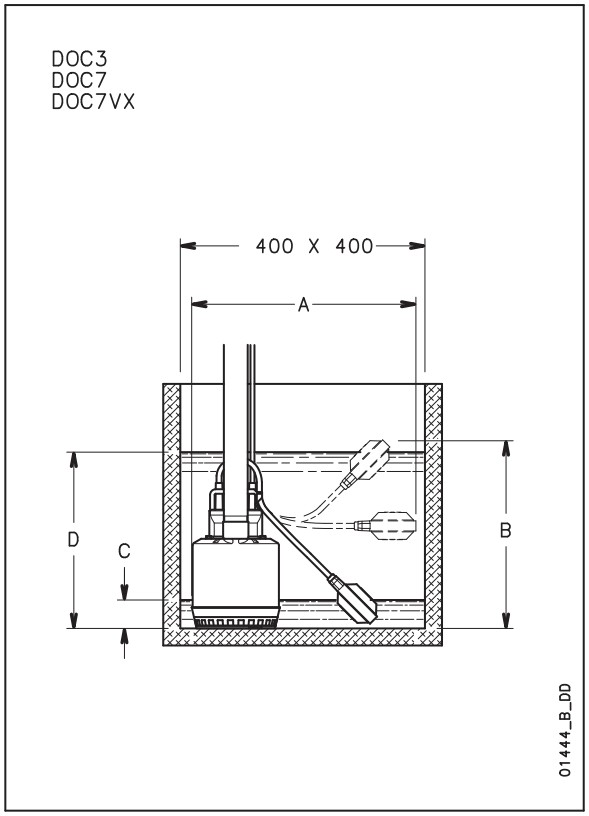
PUMP TYPE		DIMENSIONS (mm)				WEIGHT
		F	H	D	X*	kg
DOC3	DOC3 GT	245	188	155	20	4
DOC7(T)	DOC7(T) GT	285	228	155	20	6
DOC7VX(T)	-	310	252	175	45	6

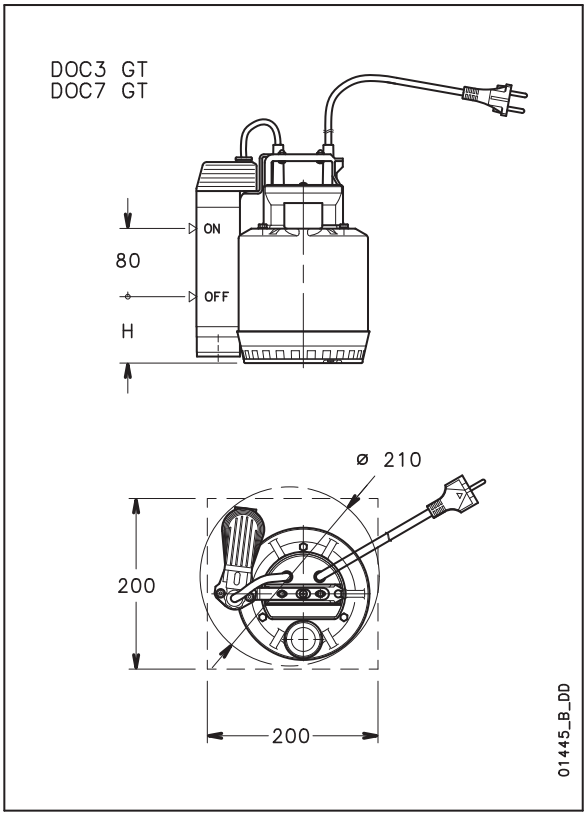
* Minimum drain level.

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DOC SERIES
Installation examples

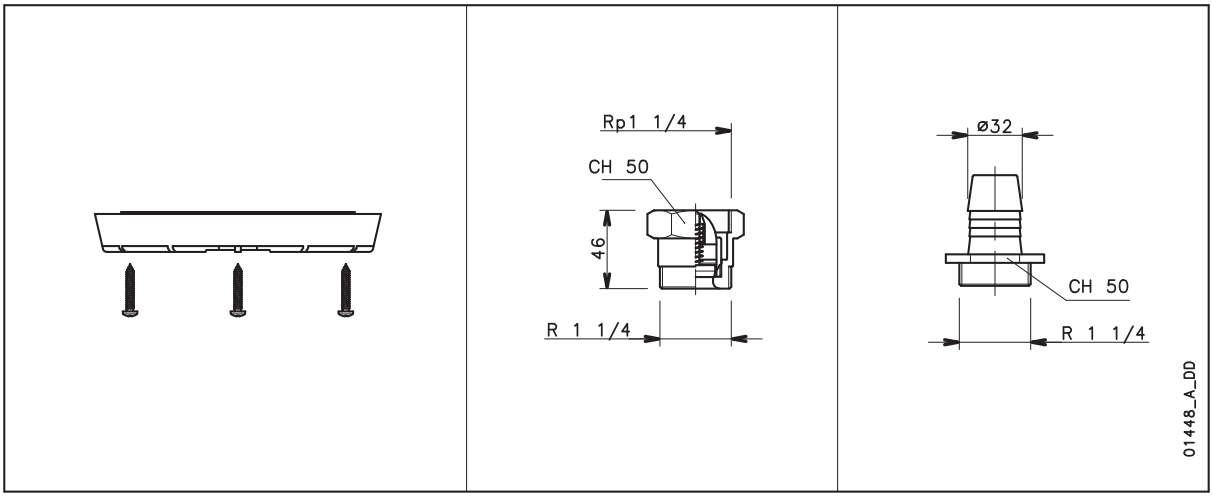




PUMP TYPE		A	B	MINIMUM WATER LEVEL C	MAXIMUM WATER LEVEL D	MINIMUM WATER LEVEL H
DOC3	DOC3 GT	390	330	50	310	90
DOC7	DOC7 GT	390	370	90	350	90
DOC7VX	-	390	395	115	375	-

docliv-2p50_c_td

Accessories



DIWA Series

Submersible pumps for clean and dirty water.
Entirely made from AISI 304 stainless steel, compact and lightweight, with mechanical seal and coated diffuser plate for maximum resistance to abrasion. Supplied with or without float switch. Most pump models feature a built-in capacitor. The motor is cooled by the pumped liquid and thermal overload protection to protect the pump in case of overheating.

Specifications

Delivery: up to 25 m^3/h
Head: up to 21 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.55 kW to 1.5 kW
Maximum immersion depth: 7 m
Temperature of pumped liquid: 0°C to +50°C
Liquids with suspended solids: up to 8 mm
Insulation class: F (motor dry)
Protection: IP68
Length of cable: 10 m

Materials

Pump body, motor casing: Stainless steel
Sleeve, impeller: Stainless steel
Shaft extension, buts and bolts: Stainless steel
Suction screen: Stainless steel
Front diffuser plate: Stainless steel coated with polyurethane
Inner mechanical seal: Silicon-carbide/Silicon-carbide
Upper lip seal: NBR
Handle: Stainless steel coated in polyacetal resin
Elastomers: NBR

Applications

Emptying of drains, rain water tanks or domestic wastewater

Emptying of wells and tanks in industrial and ecological applications

Lawn and garden irrigation

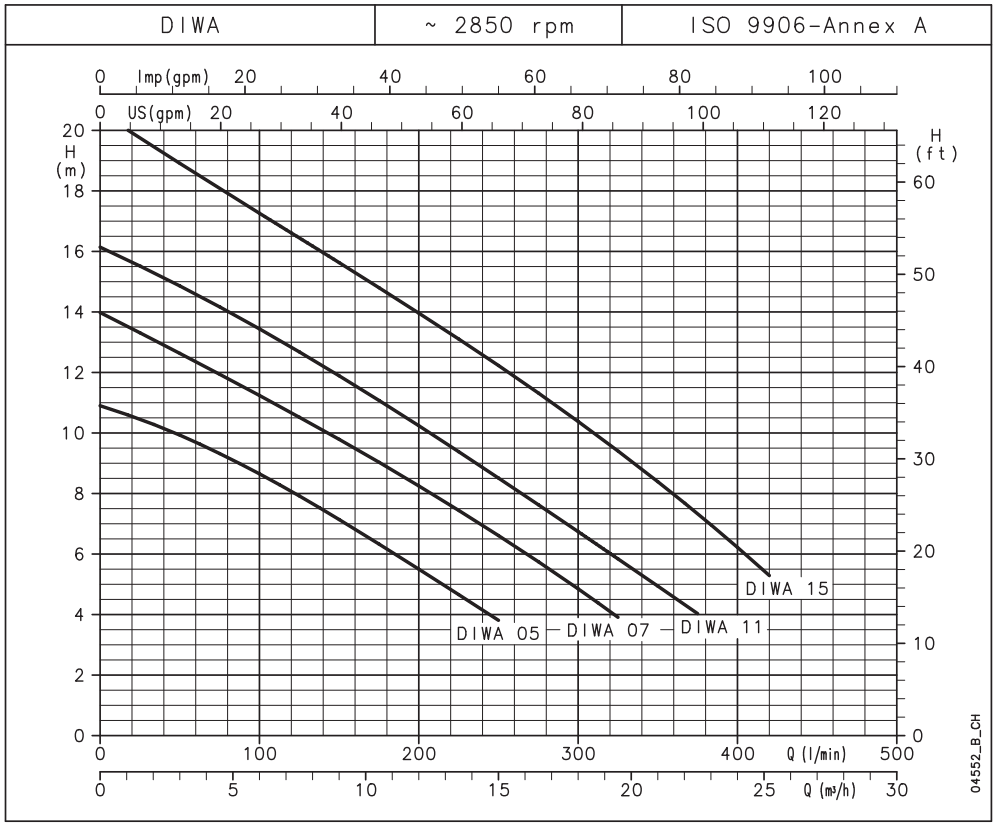
Emptying of tanks and reservoirs

Emergency draining of flooded areas or rooms



For a complete list of technical information, consult www.lowara.com

DIWA SERIES
Operating characteristics at 50 Hz



DIWA SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	100	125	150	175	200	225	250	300	325	375	420
			m^3/h	0	6	7,5	9	10,5	12	13,5	15	18	19,5	22,5	25,2
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)												
DIWA 05(T)	0,55	0,75	10,9	8,6	7,9	7,1	6,3	5,5	4,7	3,8				
DIWA 07(T)	0,75	1	14,0	11,2	10,5	9,8	9,0	8,3	7,4	6,6	4,8	3,9		
DIWA 11(T)	1,1	1,5	16,1	13,4	12,7	11,9	11,1	10,2	9,4	8,5	6,7	5,8	4,0	
DIWA 15T	1,5	2	20,6	17,3	16,4	15,6	14,8	14,0	13,1	12,2	10,4	9,4	7,3	5,3

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

diwa-2p50_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V
DIWA 05	0,79	3,92	16
DIWA 07	1,25	6,20	22
DIWA 11	1,53	6,83	30
-	-	-	-

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
DIWA 05T	0,72	2,56	1,48
DIWA 07T	1,2	4,26	2,46
DIWA 11T	1,44	4,64	2,68
DIWA 15T	2,05	6,74	3,89

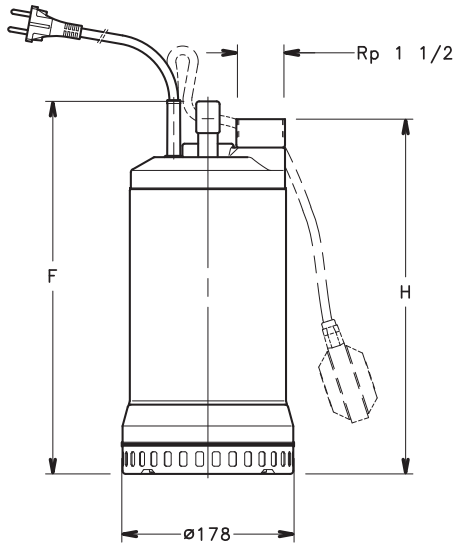
*Maximum value in specified range

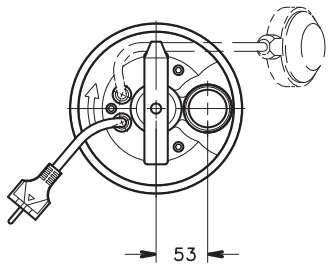
diwa-2p50_a_te

Catalogo tecnico in bianco e nero disponibile.
visita il sito www.lowara.it

DIWA SERIES
Dimensions and weights

DIWA





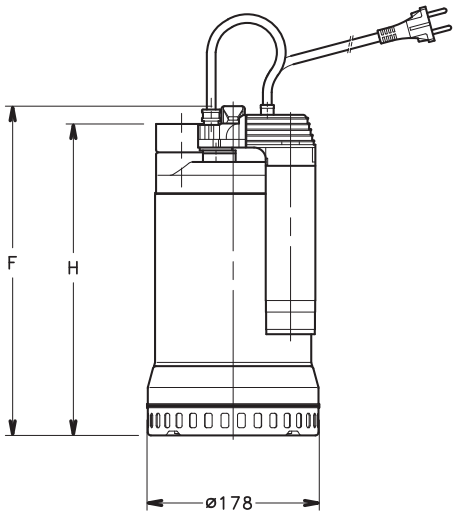
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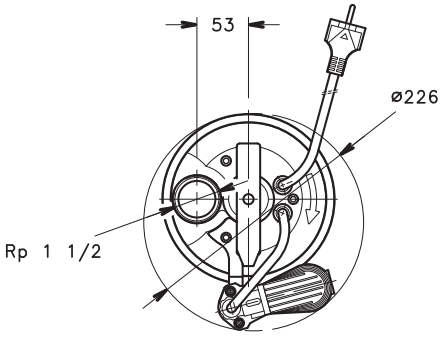
PUMP TYPE SINGLE-PHASE		DIMENSIONS (mm)		WEIGHT
		F	H	kg
DIWA05	DIWA05 GT	348	330	12
DIWA07	DIWA07 GT	393	375	14,3
DIWA11	DIWA11 GT	393	375	17
-	-	-	-	-

PUMP TYPE THREE-PHASE	DIMENSIONS (mm)		WEIGHT
	F	H	kg
DIWA05T	348	330	11
DIWA07T	363	345	13
DIWA11T	393	375	15
DIWA15T	393	375	16,5

diwa-2p50_b_td

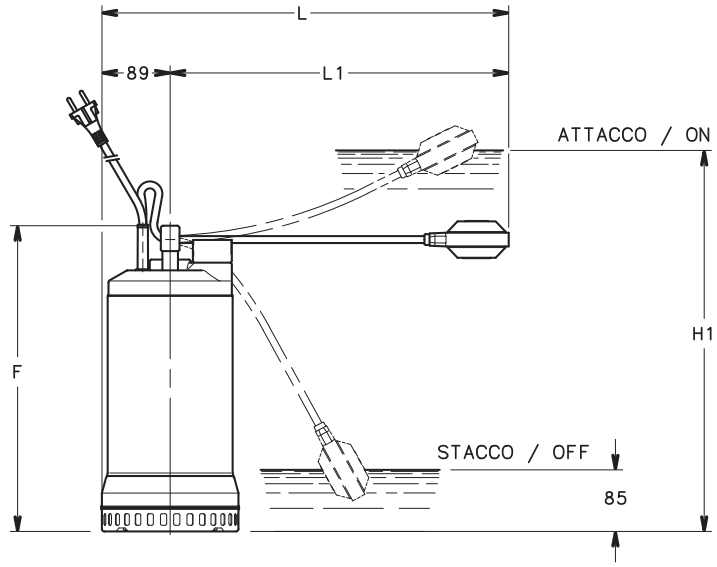
DIWA GT





04559_A_DD

DIWA

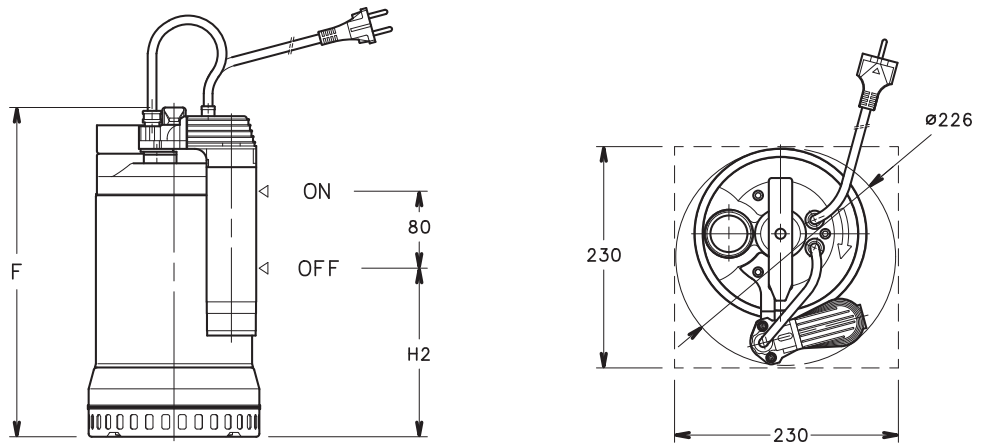


04553_E_DD

PUMP TYPE		DIMENSIONS (mm)				
		F	L	L1	H1	H2
DIWA05	DIWA05 GT	348	459	370	430	180
DIWA07	DIWA07 GT	393	514	425	490	180
DIWA11	DIWA11 GT	393	514	425	490	180

diwaliv-2p50_b_td

DIWA GT



04563_B_DD

DN Series

Submersible pumps for dirty water. Made in cast iron and stainless steel, with mechanical seal and open impeller with abrasion-resistant rubber coating. Supplied with or without float switch.

Specifications

Delivery: up to 16,8 m^3/h
Head: up to 22 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.55 kW to 0.75 kW
Maximum immersion depth: 5 m
Temperature of pumped liquid:
0°C to +50°C (with fully submerged pump)
0°C to +25°C (with partially submerged pump)
Liquids with suspended solids: up to 5 mm
Protection: IP68
Length of cable: 5 m

Materials

Pump body: Cast iron
Wear flange, motor casing, suction screen: Stainless steel
Impeller: Stainless steel and NBR
Mechanical seal: Carbon/Ceramic/NBR
Elastomers: NBR
Shaft extension: Stainless steel

Applications

Emptying of drains, rain water tanks or domestic wastewater

Emptying of wells and tanks in industrial and ecological applications

Lawn and garden irrigation

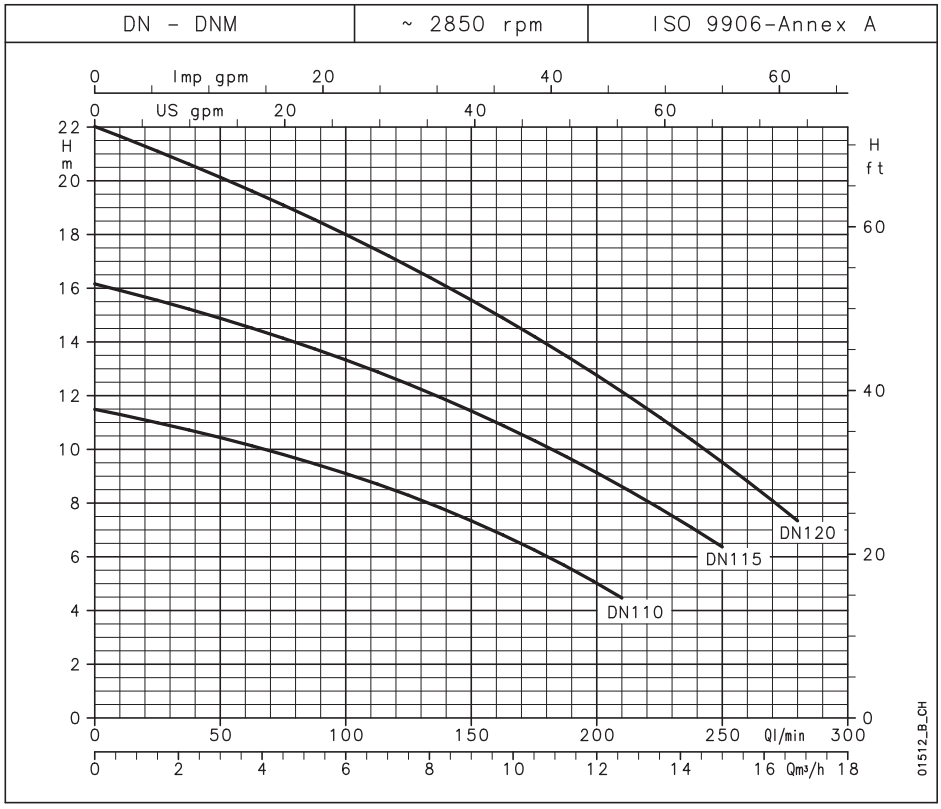
Emptying of tanks or reservoirs

Emergency draining in flooded areas



For a complete list of technical information, consult www.lowara.com

DN SERIES
Operating characteristics at 50 Hz



DN SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	25	50	75	100	125	150	175	210	225	250	280
			m^3/h	0	1,5	3	4,5	6	7,5	9	10,5	12,6	13,5	15	16,8
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)												
DN(M) 110	0,6	0,8	11,5	11,0	10,4	9,8	9,1	8,3	7,3	6,3	4,5			
DN(M) 115	0,6	0,8	16,2	15,6	14,9	14,1	13,3	12,4	11,4	10,3	8,6	7,8	6,4	
DN(M) 120	0,75	1	22,0	21,1	20,1	19,1	18,0	16,8	15,6	14,2	12,1	11,2	9,5	7,3

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dn-2p50_a_th

Electrical data

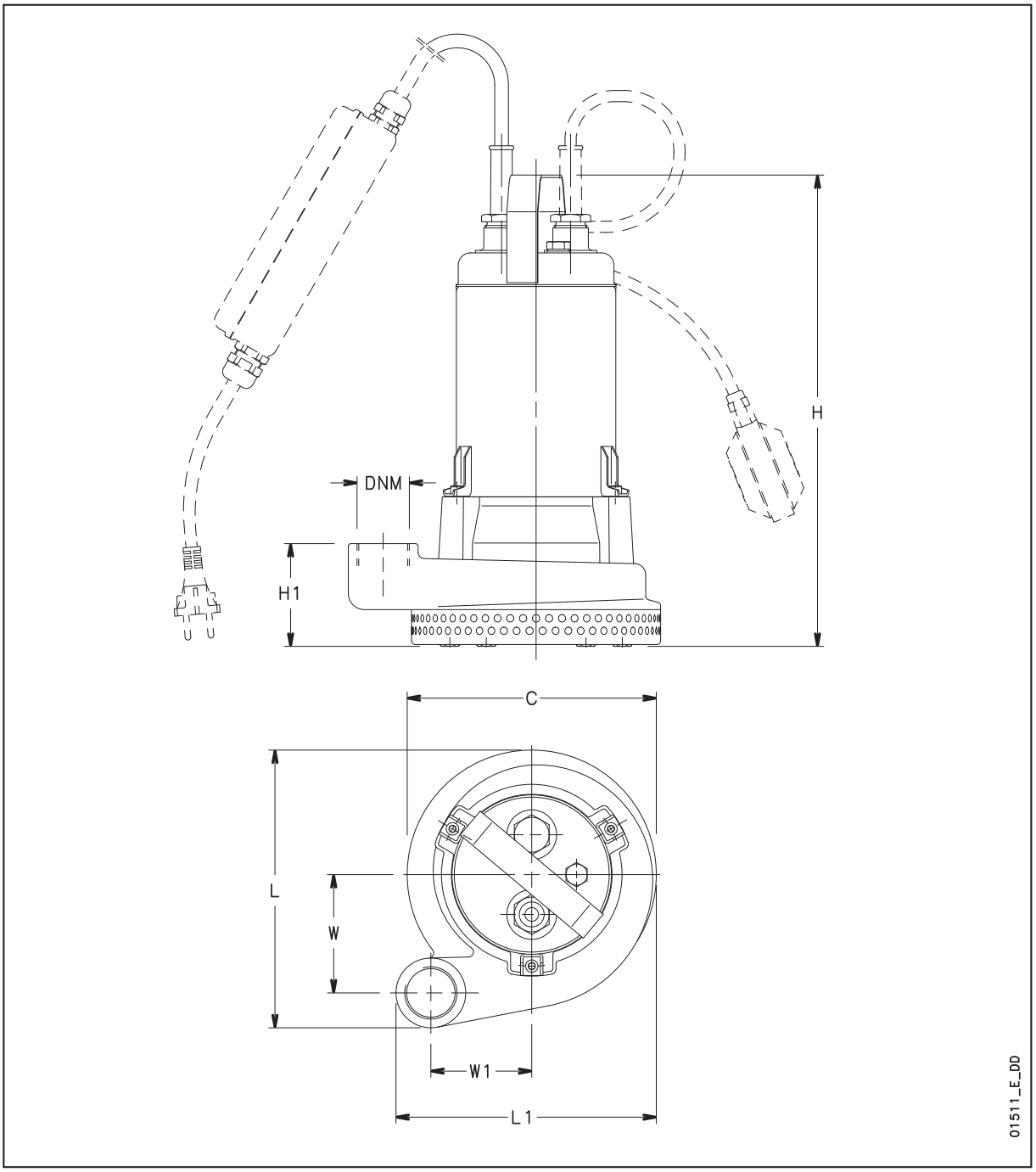
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DNM 110	0,68	3,56	25
DNM 115	0,90	4,28	25
DNM 120	1,03	4,77	25

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DN 110	0,66	3,46	2,00
DN 115	0,93	3,81	2,20
DN 120	1,09	4,05	2,34

*Maximum values within operating range.

dn-2p50-en_b_te

Black and white technical books available
see www.lowara.it



PUMP TYPE	DIMENSIONS (mm)							DNM	WEIGHT
	C	H	H1	L	L1	W	W1		kg
DNM110-DN110	Ø 200	380	81	223	209	95	81	Rp 1°	18,5
DNM115-DN115	Ø 200	380	81	223	209	95	81	Rp 1°	18,5
DNM120-DN120	Ø 200	380	81	223	209	95	81	Rp 1°	19,5

dn-2p50_b_td

DOMO Series

Submersible pumps for solid-laden wastewater. Made in stainless steel, with mechanical seal and versions with twin-channel impeller, Vortex impeller, and grinder impeller.

Supplied with or without float switch.

Specifications

Delivery: up to 40 m^3/h
Head: up to 14.5 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.55 kW to 1.5 kW
Maximum immersion depth: 5 m
Temperature of pumped liquid: 0°C to +35°C (with pump totally immersed)
Shaft extension: Stainless steel
Liquids with suspended solids:
up to 35 mm (Domo 7-Domo 7VX)
up to 50 mm (Domo 10-15-20 and Domo10-15-20VX)
Version with grinder impeller (DOMO GRI)
Insulation class: F (motor dry)
Protection: IP68
Length of cable: 10 m (except Domo 7,5 m)

Materials

Pump body, motor casing: Stainless steel
DOMO 7 (VX) impeller: Reinforced nylon
DOMO 10-15-20 (VX) impeller: Stainless steel
DOMO GRI impeller: Technopolymer PBT, stainless steel and high resistance Grinder.
Inner mechanical seal: Silicon-carbide/ Silicon-carbide
Lubrificated by the DRIVELUB System.
Upper lip seal: NBR
Shaft extension: Stainless steel
Handle: Nylon

Applications

Emptying of septic tanks and residential sumps

Pumping of effluent (the VX version also pumps suspended filaments)

Emptying of wells and tanks in industrial and ecological applications

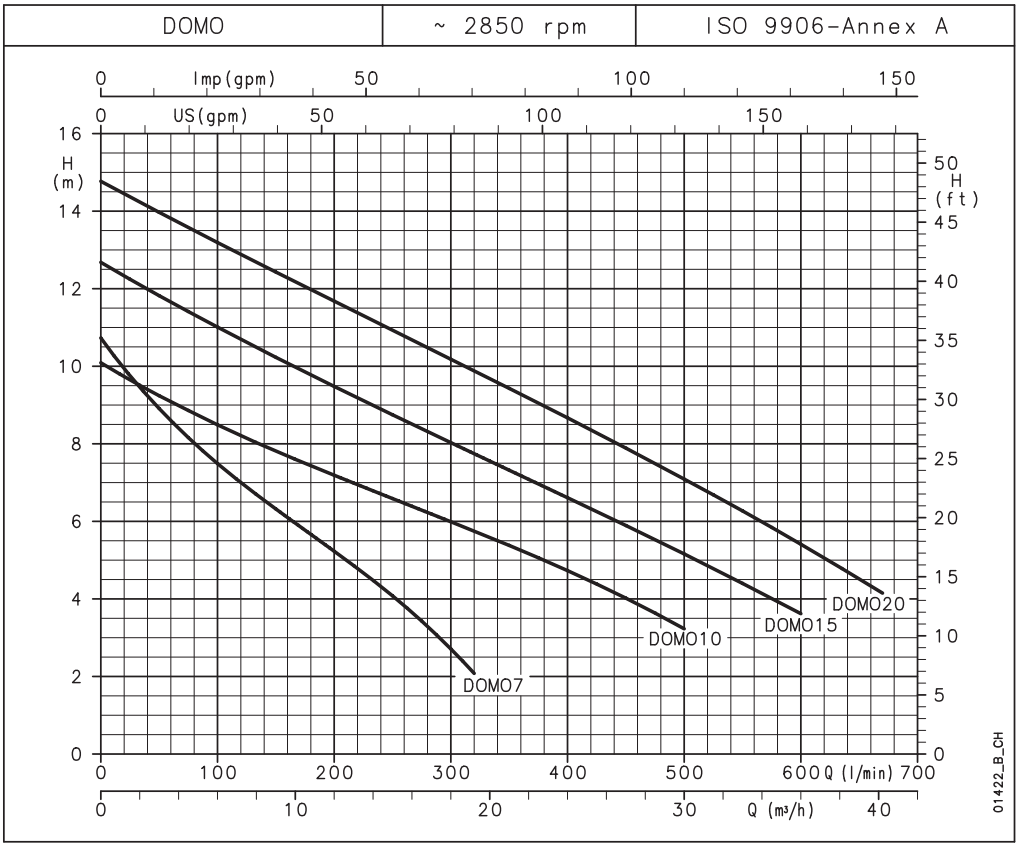
Emptying of tanks or reservoirs

Emergency draining in flooded areas



For a complete list of technical information, consult www.lowara.com

DOMO SERIES
Operating characteristics at 50 Hz



DOMO SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min	0	100	150	200	250	300	320	400	500	600	670
			m³/h	0	6	9	12	15	18	19,2	24	30	36	40,2
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)											
DOMO 7(T)	0,55	0,75	10,7	7,5	6,3	5,2	4,1	2,7	2,1					
DOMO 10(T)	0,75	1	10,1	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2			
DOMO 15(T)	1,1	1,5	12,7	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6		
DOMO 20T	1,5	2	14,8	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2	

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

domo-2p50_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V
DOMO 7	0,80	3,94	16
DOMO 10	1,14	5,84	22
DOMO 15	1,58	7,02	30
-	-	-	-

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
DOMO 7T	0,73	2,58	1,49
DOMO 10T	1,09	4,09	2,36
DOMO 15T	1,49	4,73	2,73
DOMO 20T	1,96	6,6	3,81

*Maximum value in specified range

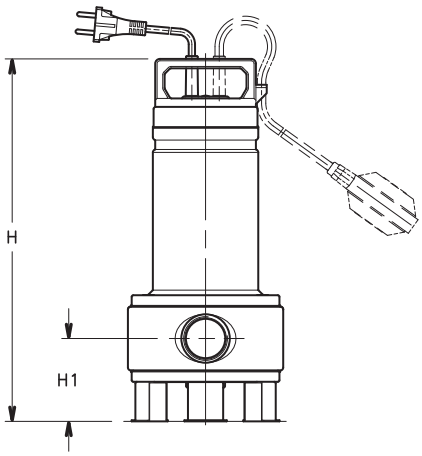
domo-2p50_a_te

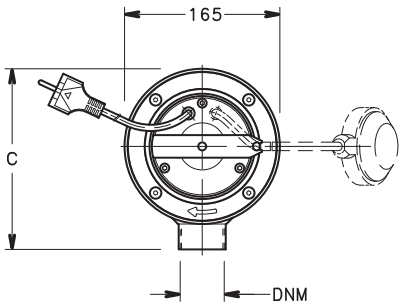
Black and white technical books available

see www.lowara.it

DOMO SERIES
Dimensions and weights

DOMO





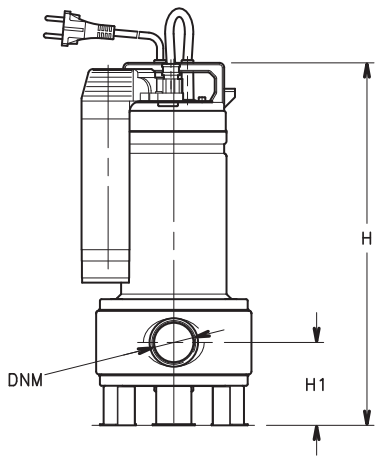
01421_D_DD

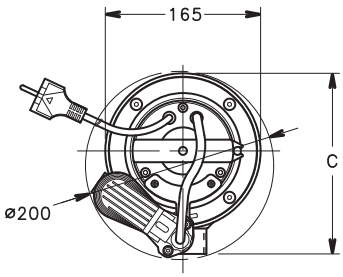
PUMP TYPE SINGLE-PHASE		DIMENSIONS (mm)			DNM	WEIGHT
		H	H1	C		kg
DOMO 7 DOMO 7VX	DOMO 7 GT DOMO 7VX GT	391	88	193	Rp1½	10,2
DOMO10 D0MO10VX	DOMO10 GT D0MO10VX GT	468	111,5	198	Rp2	13,6
DOMO15 DOMO15VX	DOMO15 GT DOMO15VX GT	468	111,5	198	Rp2	15,3
-	-	-	-	-	-	-

PUMP TYPE THREE-PHASE	DIMENSIONS (mm)			DNM	WEIGHT
	H	H1	C		kg
DOMO 7T DOMO 7VXT	391	88	193	Rp1½	8,9
DOMO10T D0MO10VXT	438	111,5	198	Rp2	11,6
DOMO15T DOMO15VXT	468	111,5	198	Rp2	13,6
DOMO20T D0MO20VXT	468	111,5	198	Rp2	14,6

domo-2p50_c_td

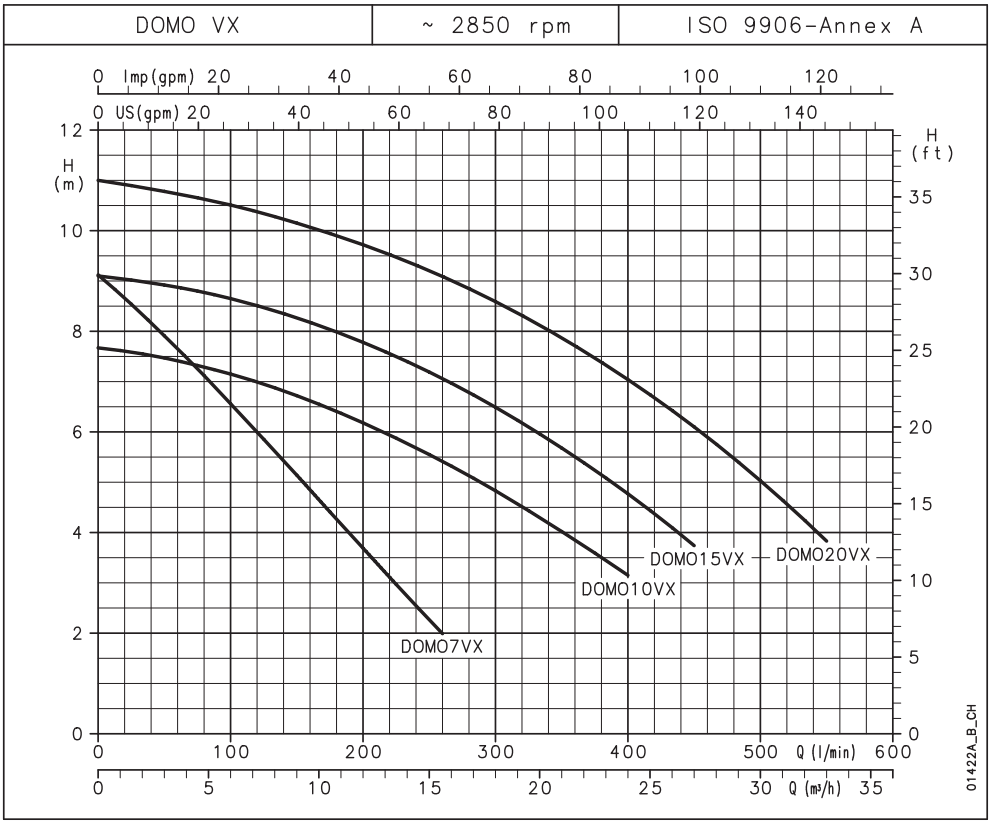
DOMO GT





01418_A_DD

DOMO VX SERIES
Operating characteristics at 50 Hz



3

DOMO VX SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY												
			l/min	0	80	100	150	175	200	225	260	300	400	450	550
			m^3/h	0	4,8	6	9	10,5	12	13,5	15,6	18	24	27	33
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)												
DOMO 7VX(T)	0,55	0,75	9,1	7,1	6,6	5,1	4,4	3,7	3,0	2,0					
DOMO 10VX(T)	0,75	1	7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1			
DOMO 15VX(T)	1,1	1,5	9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7		
DOMO 20VXT	1,5	2	11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8	

These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

domovx-2p50_a_th

Electrical data

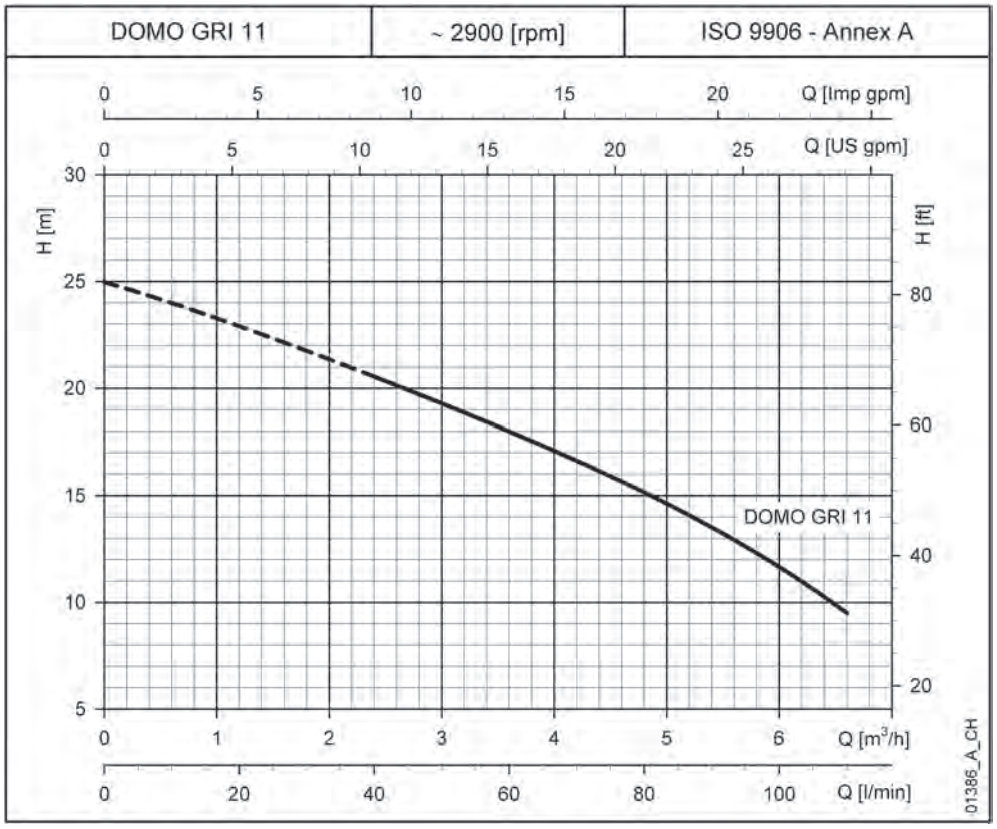
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V
DOMO 7VX	0,79	3,91	16
DOMO 10VX	1,15	5,88	22
DOMO 15VX	1,36	6,11	30
-	-	-	-

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
DOMO 7VXT	0,71	2,56	1,48
DOMO 10VXT	1,10	4,09	2,36
DOMO 15VXT	1,26	4,31	2,49
DOMO 20VXT	1,74	6,22	3,59

*Maximum value in specified range

domovx-2p50_a_te

DOMO GRI SERIES
Operating characteristics at 50 Hz



DOMO GRI SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q =DELIVERY										
			l/min	0	15	30	40	50	60	70	80	90	100	110
			m³/h	0	0,9	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
DOMO GRI 11 (SG)	1,1	1,5	25,0		23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5
DOMO GRI 11 T														

These performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

domo-gri-2p50-en_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	RATED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V	PUMP TYPE THREE-PHASE	RATED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DOMO GRI 11 (SG)	1,50	6,84	30	DOMO GRI 11 T	1,39	4,55	2,63

* Maximum value in specified range

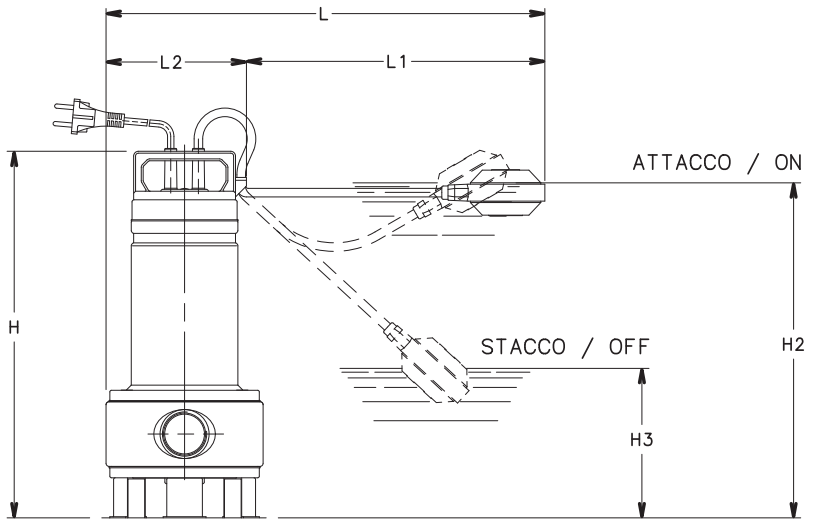
domo-gri-2p50-en_b_te

Black and white technical books available

see www.lowara.it

DOMO SERIES
Installation examples

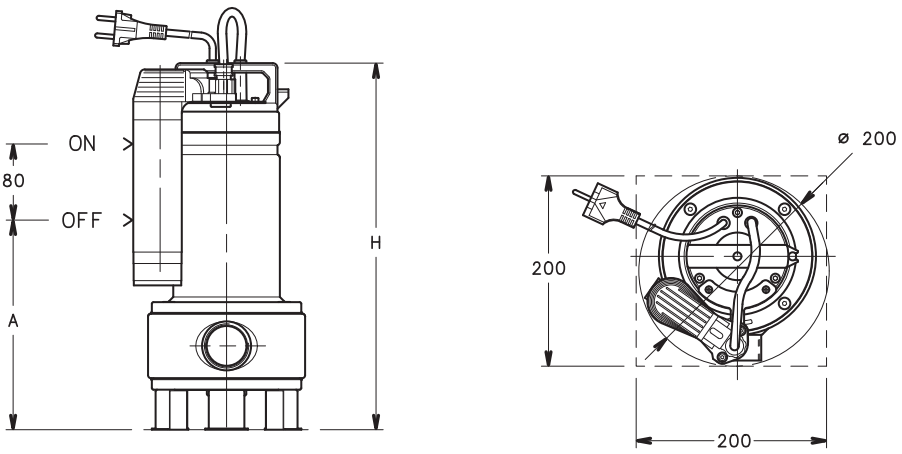
DOMO
DOMO GR I



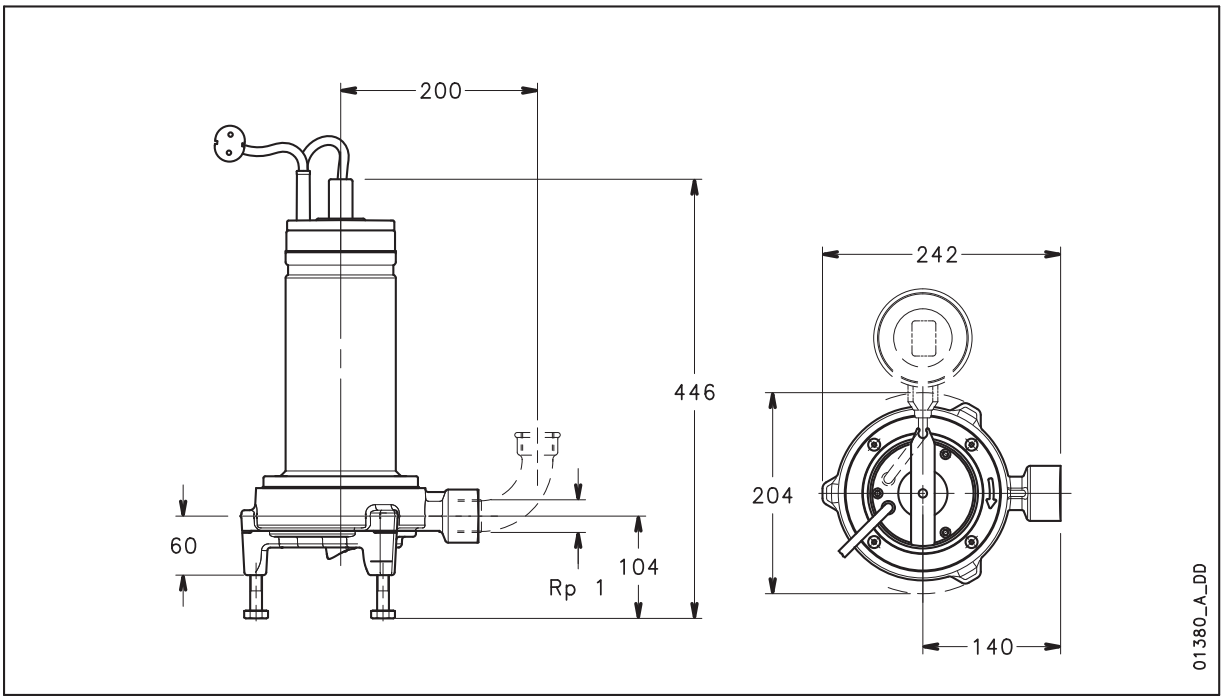
PUMP TYPE		DIMENSIONS(mm)						
		H	H2	H3	L	L1	L2	A
DOMO 7 - DOMO 7 GT	DOMO 7VX - DOMO 7VX GT	391	375	155	420	275	145	225
DOMO10 - DOMO10 GT	DOMO10VX - DOMO10VX GT	468	420	155	495	350	145	255
DOMO15 - DOMO15 GT	DOMO15VX - DOMO15VX GT	468	420	155	495	350	145	255
DOMO GRI 11	-	446	400	135	508	350	158	-

domoliv-2p50-en_d_td

DOMO GT

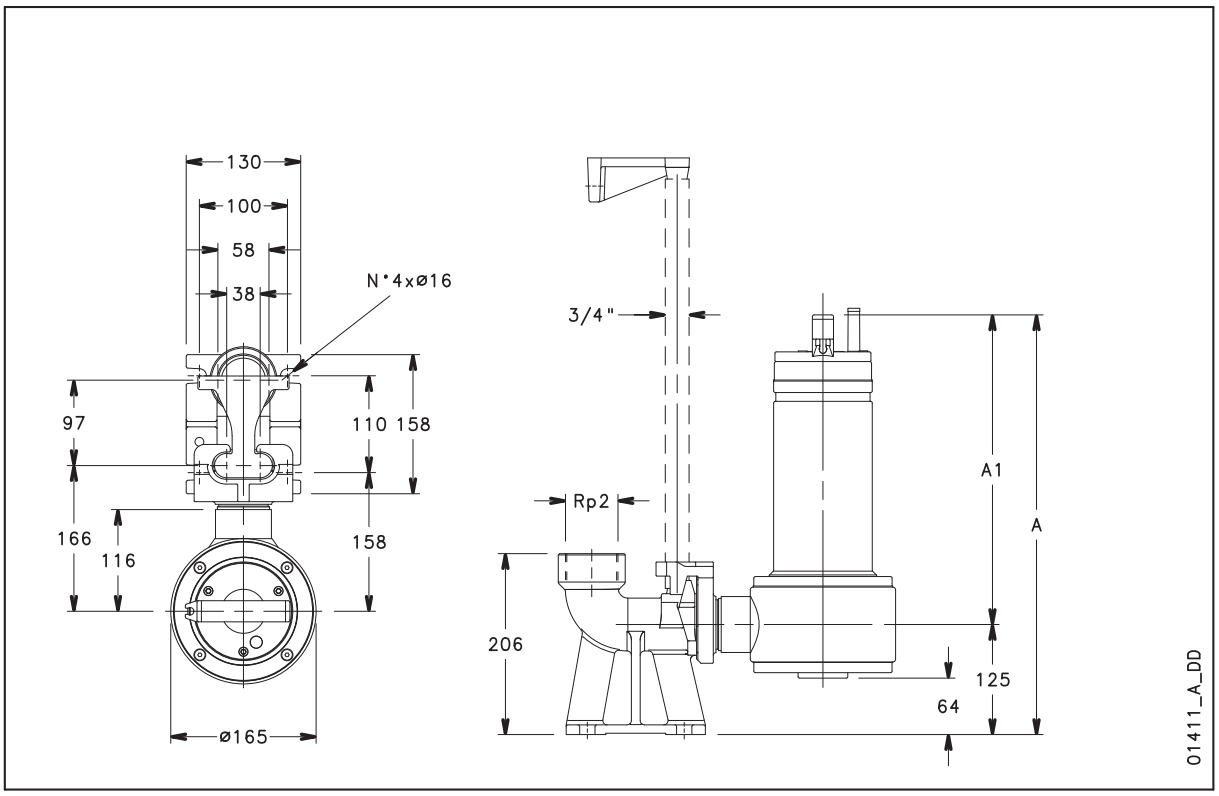


DOMO GRI SERIES
Dimensions and weights

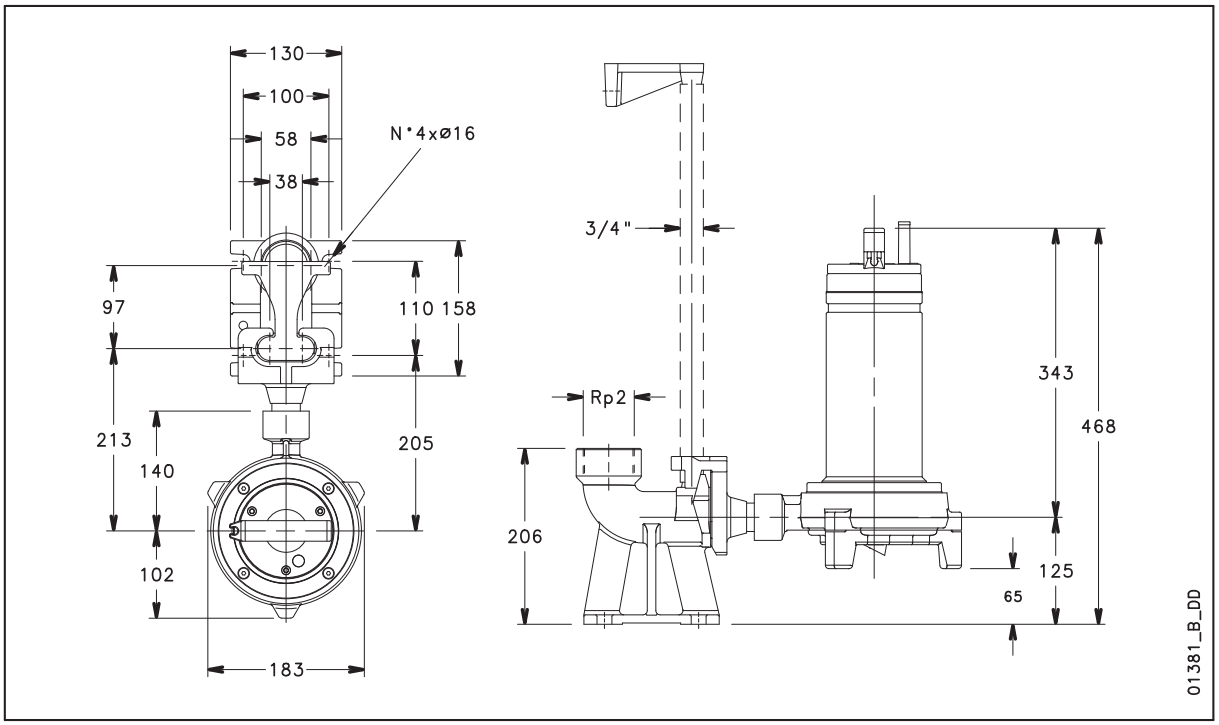


PUMP TYPE	WEIGHT kg
DOMO GRI 11 (SG)	19 (18,8)
DOMO GRI 11 T	18,3

domo-gri-en_a_td



SD Installations examples



DL Series

Submersible pumps for solid-laden wastewater. Made in cast iron and stainless steel, with mechanical seal and versions with single-channel impeller and Vortex impeller.

Specifications

Delivery: up to 42 m^3/h
Head: up to 22 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.6 kW to 1.5 kW
Maximum immersion depth: 5 m
Temperature of pumped liquid:
0°C to +50°C (with pump totally immersed)
0°C to +25°C (with pump partially immersed)
Liquids with suspended solids:
up to 45 mm (DL80-90-105 Minivortex-Vortex)
up to 50 mm (DL109-125, DLV100-115)
Protection: IP68
Length of cable: 5 m

Materials

Pump body: Cast iron
Suction flange, feet, shaft extension, motor casing, impeller: Stainless steel
Elastomers: NBR
Mechanical seal: Carbon/Ceramic/NBR
Discharge elbow: Cast iron

Applications

Pumping of sewage with suspended solids and filaments

Draining of septic tanks, sumps and wastewater discharge tanks

Emptying of drains and tanks in industrial and ecological applications

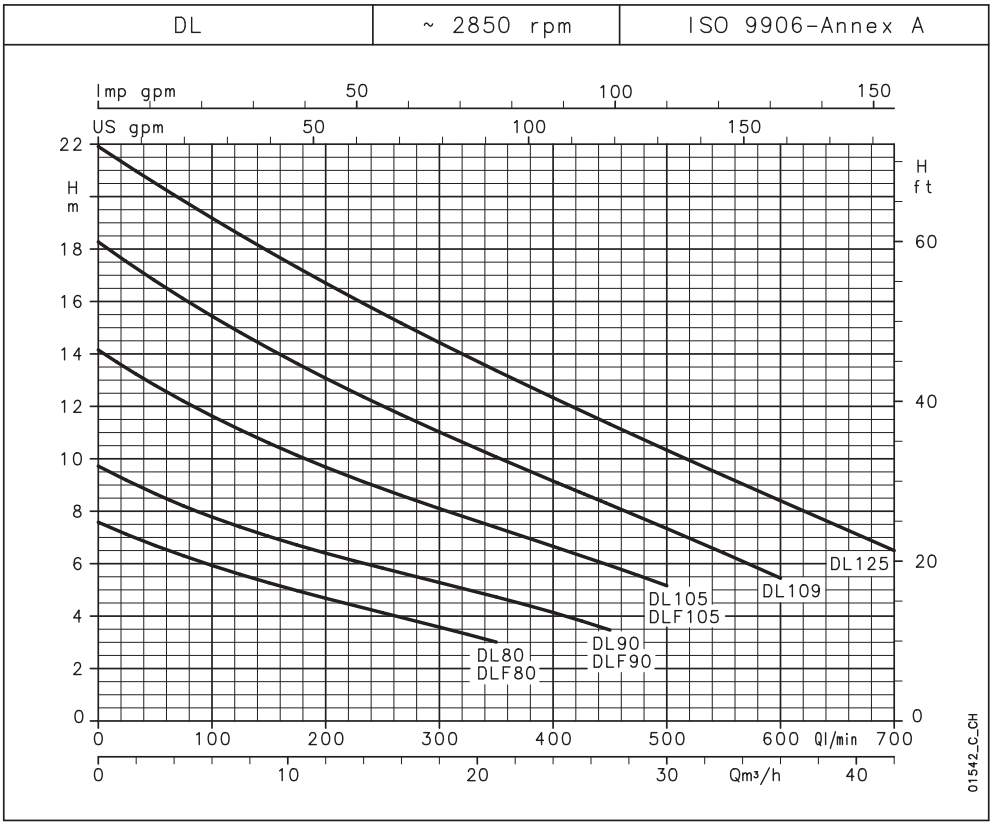
Emptying of tanks or reservoirs

Emergency draining in flooded areas



For a complete list of technical information, consult www.lowara.com

DL SERIES
Operating characteristics at 50 Hz, 2 poles



DL SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY											
			l/min	0	100	150	200	250	300	350	400	450	500	600	700
			m³/h	0	6	9	12	15	18	21	24	27	30	36	42
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DL(M) 80-DLF(M) 80	0,6	0,8	7,6	5,9	5,3	4,7	4,1	3,6	3,0						
DL(M) 90-DLF(M) 90	0,6	0,8	9,7	7,8	7,0	6,4	5,8	5,3	4,7	4,1	3,5				
DL 105 - DLF105	1,1	1,5	14,1	11,6	10,6	9,7	8,9	8,1	7,4	6,7	5,9	5,2			
DL(M) 109	1,1	1,5	18,3	15,4	14,2	13,1	12,0	11,0	10,1	9,2	8,2	7,3	5,4		
DL 125	1,5	2	21,9	19,2	17,9	16,7	15,5	14,4	13,4	12,3	11,3	10,3	8,4	6,5	

These performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dl-2p50-en_b_th

Electrical data

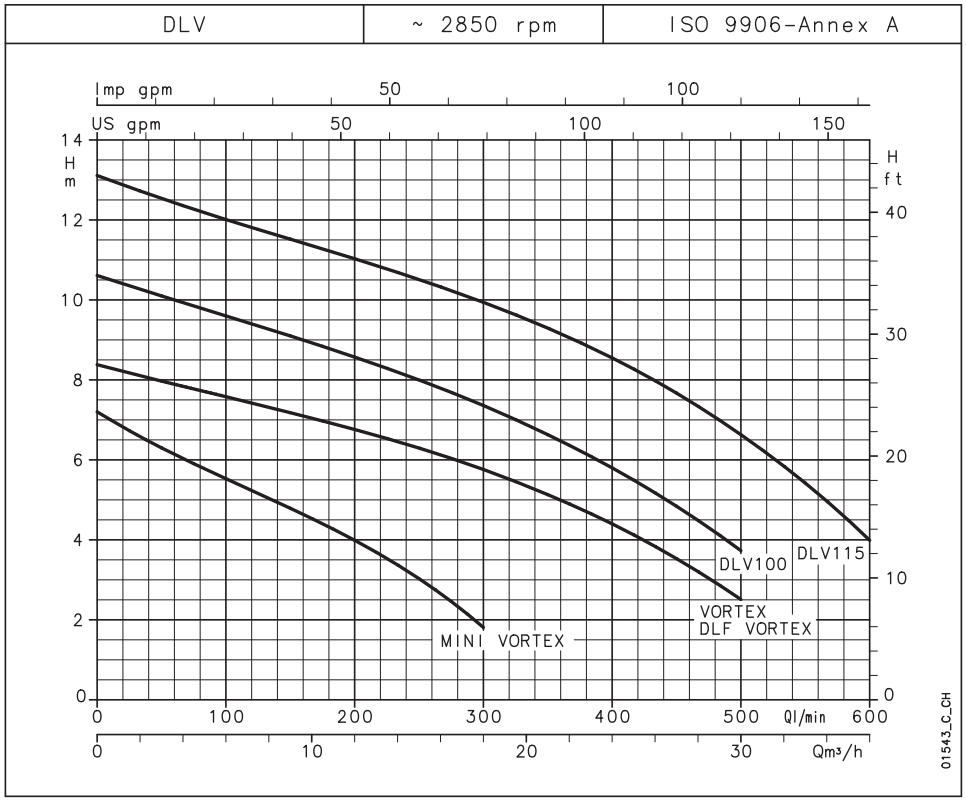
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DLM80-DLFM80	0,79	3,91	25
DLM90-DLFM90	0,89	4,27	25
-	-	-	-
DLM109	1,55	6,87	35
-	-	-	-

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DL80-DLF80	0,8	-	2,09
DL90-DLF90	0,92	3,81	2,2
DL105-DLF105	1,43	4,66	2,69
DL109	1,54	5,44	3,14
DL125	2,14	6,58	3,8

*Maximum values within operating range.

dl-2p50-en_b_te

DLV SERIES
Operating characteristics at 50 Hz, 2 poles



DLV SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY												
			l/min	0	50	100	150	200	250	300	350	400	450	500	600
			m³/h	0	3	6	9	12	15	18	21	24	27	30	36
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
MINI VORTEX(M)	0,6	0,8	7,2	6,3	5,5	4,8	4,0	3,0	1,8						
VORTEX-DLF VORTEX	1,1	1,5	8,4	8,0	7,6	7,2	6,8	6,3	5,8	5,1	4,4	3,5	2,5		
DLV(M) 100	1,1	1,5	10,6	10,1	9,6	9,1	8,6	8,0	7,4	6,6	5,8	4,8	3,7		
DLV 115	1,5	2	13,1	12,5	12,0	11,5	11,0	10,5	9,9	9,3	8,5	7,7	6,6	4,0	

These performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dlv-2p50-en_b_th

Electrical data

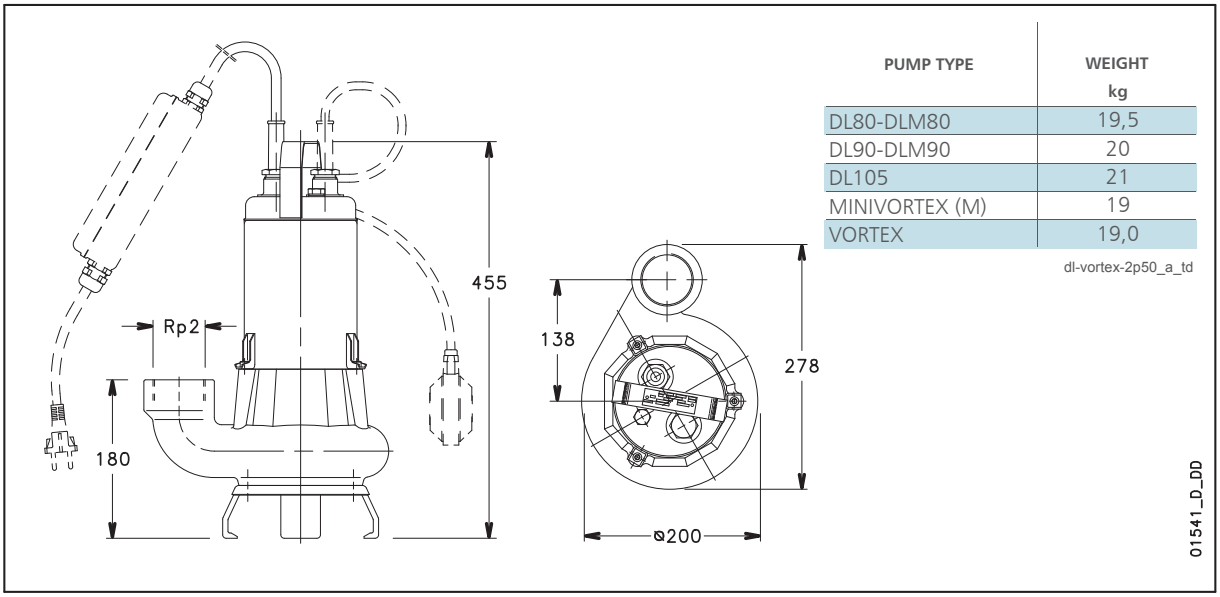
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
MINI VORTEX M	1,05	4,82	25
-	-	-	-
DLVM100	1,64	7,30	35
-	-	-	-

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
MINI VORTEX	1,10	-	2,36
VORTEX-DLF VORTEX	1,66	5,11	2,95
DLV 100	1,65	5,63	3,25
DLV 115	2,25	6,81	3,93

*Maximum values within operating range.

dlv-2p50-en_b_te

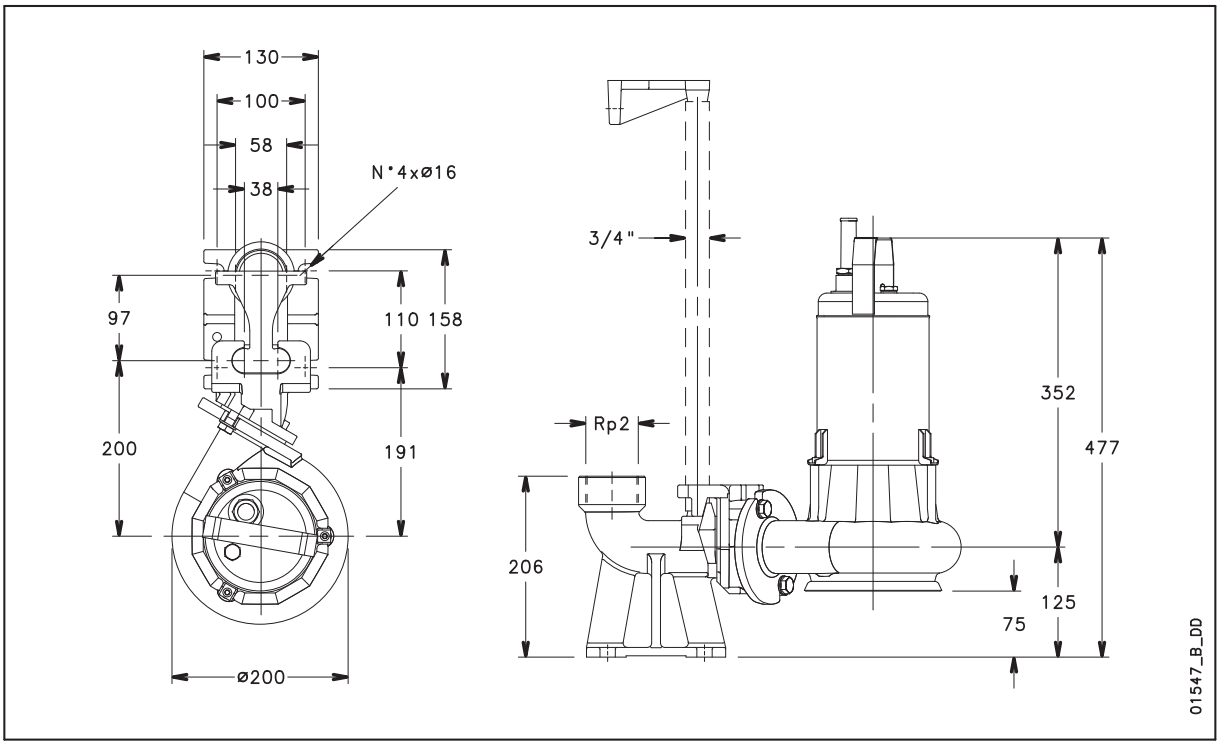
DL - VORTEX SERIES
Dimensions and weights



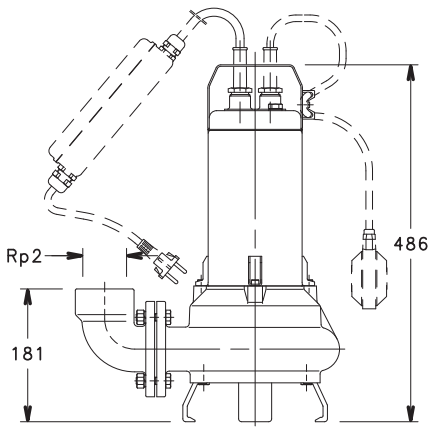
PUMP TYPE	WEIGHT kg
DL80-DLM80	19,5
DL90-DLM90	20
DL105	21
MINIVORTEX (M)	19
VORTEX	19,0

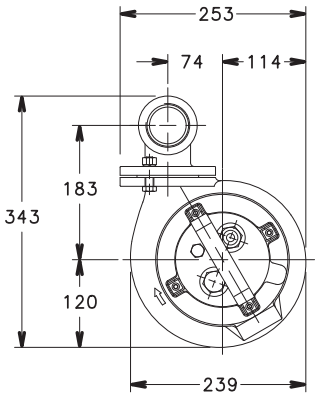
dl-vortex-2p50_a_td

DLF SERIES
Installations examples



DL - VORTEX SERIES
Dimensions and weights



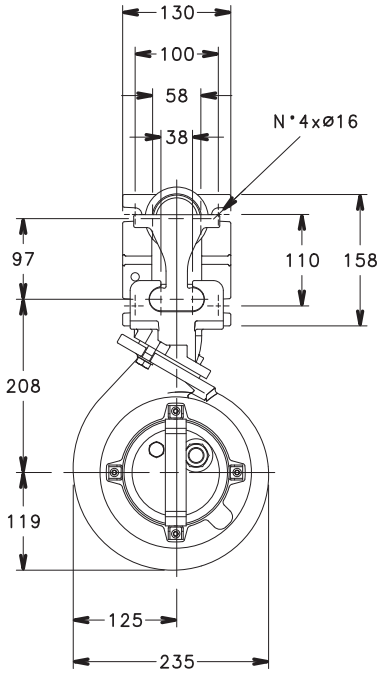


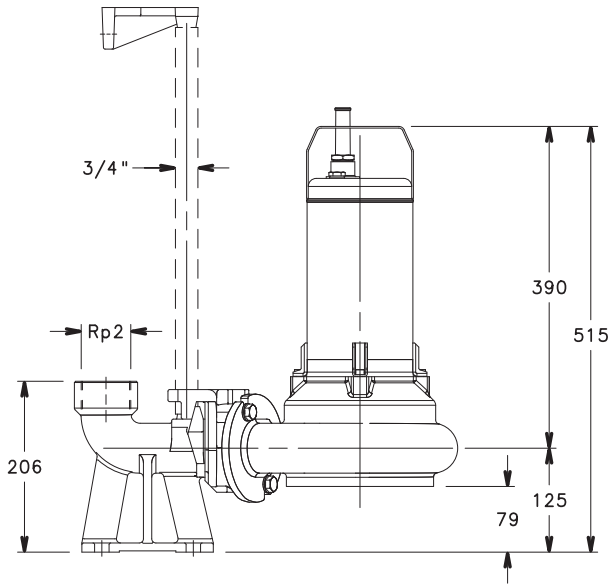
PUMP TYPE	WEIGHT kg
DL109-DLM109	27
DL125	27
DLV100-DLVM100	27
DLV115	27

dl-dlv-2p50_a_td

01562_D_DD

DL - VORTEX SERIES
Installations examples





01567_D_DD

GLS Series

Submersible pump for pumping clean water, surface water and wstewater containing solids or long-fibred material.

Specifications

Impeller: self-cleaning
Delivery: up to 244 m^3/h
Head: up to 41 m
maximum temperature of liquid: 40°C
Maximum immersion depth: 20 m
Solids handling: max 48 mm
Delivery flange: DN 50-65-80-100
Power supply: 230V single-phase, 400V three-phase, 50 Hz
Motor power: up to 7,4 kW
Cable lenght: 10 m
Unsulation class: H (180°C)
Protection: IP68

Materials

Motor casing, oil chamber seals, pump body: Grey iron
Impeller (single- and multichannel): Grey iron
Shaft: 431 Stainless steel
Mechanical seal (dual)
Motor side: Ceramic/carbon, Silicon-carbide/carbon
Pump side: Tungsten-carbide/ceramic
Gasket: Nitrile rubber

Optional Features

Industrial washing

Filtration

Industrial systems

Wastewater

Aggressive liquids

Accessories

- Lowering system
- 90° delivery elbow with hose connection
- 90° threaded delivery elbow
- Non-return ball valve
- Float for solid-laden waters
- Command and control panels



For a complete list of technical information, consult www.lowara.com

GLS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	Pgr (P1) kW *	(P2) Nom kW **	D Gir. mm	min^{-1}	Q = DELIVERY															Passes solids up to (mm)
					l/s 0	2	4	6	8	10	15	20	25	30	40	45	50	60	67,8	
					m^3/h 0	7,2	14,4	21,6	28,8	36	54	72	90	108	144	162	180	216	244	
					H = TOTAL HEAD METRES COLUMN OF WATER															
GLS 50-15-251-S	2	1,5	104	2900	17,0	13,8	11,5	9,7	8,0	5,9										48
GLS 50-15-251-P	2	1,5	104	2900	15,8	13,7	11,8	10,3	8,8	7,4	3,5									48
GLS 50-16-253-S	1,9	1,6	104	2900	17,2	14,0	11,7	9,9	8,2	6,1										48
GLS 50-16-253-P	1,9	1,6	104	2900	16,0	13,8	12,0	10,5	9,1	7,7	3,8									48
GLS 50-20-253-S	2,4	2	112	2900	19,0	16,8	14,3	12,0	10,1	8,2										48
GLS 50-20-253-P	2,4	2	112	2900	19,0	16,8	14,9	13,2	11,6	10,2	6,3									48
GLS 50-24-253-S	3,2	2,4	122	2900	24,0	21,3	19,4	17,1	14,6	12,3	6,3									48
GLS 50-24-253-P	3,2	2,4	122	2900	23,8	21,3	19,2	17,2	15,4	13,7	9,2									48
GLS 65-15-251	2	1,5	104	2900	15,0	12,4	10,9	9,6	8,3	7,0	3,4									48
GLS 65-16-253	1,9	1,6	104	2900	15,1	12,7	11,0	9,7	8,5	7,3	3,6									48
GLS 65-20-253	2,4	2	112	2900	17,4	15,2	13,4	11,9	10,5	9,2	5,6									48
GLS 65-24-253	3,2	2,4	122	2900	20,9	18,9	17,1	15,5	14,0	12,5	8,4									48
GLS 65-32-253	3,9	3,2	142	2900	25,0	23,5	21,9	20,1	18,3	16,4	12,1	7,5	2,9							26
GLS 65-42-253	5,3	4,2	154	2900	29,8	28,1	26,5	24,8	23,1	21,3	16,8	12,0	6,7							26
GLS 80-32-253	3,9	3,2	142	2900	25,0	23,5	21,9	20,1	18,3	16,4	12,1	7,5	2,9							26
GLS 80-42-253	5,3	4,2	154	2900	29,8	28,1	26,5	24,8	23,1	21,3	16,8	12,0	6,7							26
GLS 80-59-253	6,9	5,9	165	2900	35,6	33,9	32,3	30,6	28,9	27,1	22,5	17,4	11,5	5,0						26
GLS 80-74-253	8,7	7,4	177	2900	41,1	39,7	37,9	36,1	34,4	32,8	28,2	22,7	16,7	9,8						26
GLS 100-24-453	2,8	2,4	179	1450	10,5	9,9	9,4	8,9	8,5	8,1	7,2	6,5	5,7	4,7	2,7	1,9				39
GLS 100-31-453	3,7	3,1	198	1450	13,8	13,0	12,4	11,8	11,3	10,8	9,9	9,0	8,2	7,2	5,1	3,9	2,9			39
GLS 100-45-453	5,3	4,5	216	1450	17,2	16,5	15,8	15,2	14,6	14,1	12,9	11,9	10,9	9,9	7,8	6,7	5,5	3,0		38
GLS 100-59-453	7	5,9	233	1450	20,5	19,6	18,9	18,2	17,6	17,0	15,7	14,6	13,5	12,5	10,3	9,2	7,9	5,3	3,2	38

Performance according to ISO Standard 9906 - Annex A. GLS-50_a_th

These performance are valid for liquids with density ρ = 1.0 Kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

*Maximum value of absorbed motor within the operating range.

** P2 = Rated shaft power.

GLS SERIES
Electrical data table a 50 Hz

PUMP TYPE	min^{-1}	Pgr (P1) kW *	(P2) Nom kW **	VOLTAGE / PHASES ***	CURRENT		START	ELECTRICAL CABLE TYPE	RUNNING CAPACITOR µF/V	STARTING CAPACITOR µF/V
					ABSORBED I_{abs}(A)	INRUSH I_{sp}(A)				
GLS 50-15-251-S	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLS 50-15-251-P	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLS 50-16-253-S	2900	1,9	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLS 50-16-253-P	2900	1,9	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLS 50-20-253-S	2900	2,4	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLS 50-20-253-P	2900	2,4	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLS 50-24-253-S	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLS 50-24-253-P	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLS 65-15-251	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLS 65-16-253	2900	1,9	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLS 65-20-253	2900	2,4	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLS 65-24-253	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLS 65-32-253	2900	3,9	3,2	400/3	6,1	52	YD	7G2,5 + 2x1,5	-	-
GLS 65-42-253	2900	5,3	4,2	400/3	8,2	52	YD	7G2,5 + 2x1,5	-	-
GLS 80-32-253	2900	3,9	3,2	400/3	6,1	52	YD	7G2,5 + 2x1,5	-	-
GLS 80-42-253	2900	5,3	4,2	400/3	8,2	52	YD	7G2,5 + 2x1,5	-	-
GLS 80-59-253	2900	6,9	5,9	400/3	11	114	YD	7G2,5 + 2x1,5	-	-
GLS 80-74-253	2900	8,7	7,4	400/3	14	114	YD	7G2,5 + 2x1,5	-	-
GLS 100-24-453	1450	2,8	2,4	400/3	5,5	38	YD	7G2,5 + 2x1,5	-	-
GLS 100-31-453	1450	3,7	3,1	400/3	6,7	38	YD	7G2,5 + 2x1,5	-	-
GLS 100-45-453	1450	5,3	4,5	400/3	9,7	77	YD	7G2,5 + 2x1,5	-	-
GLS 100-59-453	1450	7	5,9	400/3	12	77	YD	7G2,5 + 2x1,5	-	-

Stator thermal protection included in all models. GLS_A_te

* Maximum value of absorbed motor power within the operating range.

** P2 = Rated shaft power.

*** All the pumps are available also in 220 and 240 versions (single-phase) and 380 and 415 versions (three-phase).

GLV Series

Submersible pump for pumping clean water, surface water and wastewater containing solids or long-fibred material.

Specifications

Delivery: up to 200 m^3/h
Head: up to 29 m
Maximum temperature of liquid: 40°C
Maximum immersion depth: 20 m
Solids handling: 100 mm
Delivery flange: DN 50-65-80-100
Power supply: 230V single-phase, 400V three-phase, 50 Hz
Motor power: up to 7,4 kW
Cable length: 10 m
Insulation class: H (180°C)
Protection: IP68

Materials

Motor casing, oil chamber seals, pump body: Grey iron
Impeller (single- and multichannel): Grey iron
Shaft: 431 Stainless steel
Mechanical seal (dual)
Motor side: Ceramic/carbon, Silicon-carbide/carbon
Pump side: Tungsten-carbide/ceramic
Gasket: Nitrile rubber

Applications

Industrial washing

Filtration

Industrial systems

Wastewater

Aggressive liquids

Accessories

– Lowering system
– 90° delivery elbow with hose connection
– 90° threaded delivery elbow
– Non-return ball valve
– Float for solid-laden waters
– Command and control panels



For a complete list of technical information, consult www.lowara.com

GLV SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	Pgr (P1) kW *	(P2) Nom kW **	D Impeller mm	min^{-1}	Q = DELIVERY l/s 0	2	4	6	8	10	12,5	15	20	25	30	35	40	45	54	Seal	Passes solids up to (mm)
					m^3/h 0	7,2	14,4	21,6	28,8	36	45	54	72	90	108	126	144	162	196		
					H = TOTAL HEAD METRES COLUMN OF WATER															***	
GLV 50-12-251-S	1,5	1,2	104	2900	10,3	8,2	6,1	4,0	1,5											A	48
GLV 50-12-251-P	1,5	1,2	104	2900	10,3	8,3	6,4	4,4	2,0											A	48
GLV 50-15-251-S	2	1,5	118	2900	14,1	11,8	9,8	7,5	4,7											A	48
GLV 50-15-251-P	2	1,5	118	2900	13,4	11,7	9,9	7,9	5,4											A	48
GLV 50-16-253-S	1,9	1,6	104	2900	10,4	8,3	6,2	4,1	1,6											A	48
GLV 50-16-253-P	1,9	1,6	104	2900	10,4	8,4	6,5	4,5	2,2											A	48
GLV 50-20-253-S	2,6	2	118	2900	14,2	12,0	10,0	7,7	5,0											A	48
GLV 50-20-253-P	2,6	2	118	2900	13,6	11,8	10,2	8,2	5,6											A	48
GLV 50-24-253-S	3,2	2,4	128	2900	17,5	15,1	13,0	10,8	8,5	5,8										A	48
GLV 50-24-253-P	3,2	2,4	128	2900	17,1	15,0	13,3	11,5	9,7	7,5										A	48
GLV 65-15-251	2	1,5	105	2900	9,0	8,3	7,0	5,6	4,3	3,3										A	65
GLV 65-16-253	2	1,6	105	2900	9,1	8,4	7,1	5,7	4,5	3,4										A	65
GLV 65-20-253	2,5	2	117	2900	11,7	10,9	9,5	8,0	6,4	5,1	3,5									A	65
GLV 65-24-253	3,2	2,4	129	2900	14,6	13,6	12,2	10,7	9,1	7,6	5,7	3,6								A	65
GLV 65-32-253	3,8	3,2	138	2900	16,9	16,3	15,2	13,7	11,9	10,0	7,7	5,9								B	65
GLV 65-42-253	5,3	4,2	155	2900	20,3	19,9	18,7	17,1	15,2	13,2	10,8	8,8	5,7							B	65
GLV 80-32-253	3,8	3,2	138	2900	16,9	16,3	15,2	13,7	11,9	10,0	7,7	5,9								B	65
GLV 80-42-253	5,3	4,2	155	2900	20,3	19,9	18,7	17,1	15,2	13,2	10,8	8,8	5,7							B	65
GLV 80-59-253	6,9	5,9	159	2900	24,4	23,4	22,4	21,5	20,3	19,0	17,1	14,8	10,2							B	65
GLV 80-74-253	8,7	7,4	168	2900	29,1	28,0	27,0	26,0	24,8	23,5	21,7	19,7	15,2	11,2						B	65
GLV 100-24-453	2,8	2,4	175	1450	8,9	8,7	8,5	8,3	8,0	7,5	6,9	6,1	4,4	2,9	1,8	1,0				B	80
GLV 100-31-453	3,7	3,1	193	1450	11,1	10,9	10,7	10,4	10,1	9,7	9,2	8,6	7,1	5,6	4,1	2,8	1,9			B	80
GLV 100-45-453	5,3	4,5	204	1450	13,2	13,2	13,2	13,0	12,7	12,3	11,7	11,0	9,5	7,9	6,2	4,8	3,4	2,3		B	100
GLV 100-59-453	7	5,9	223	1450	16,3	16,4	16,3	16,2	15,9	15,5	14,9	14,2	12,6	10,8	8,9	7,1	5,5	4,0	1,8	B	100

Performances according to ISO Standard 9906 –Annex A. GLV-50-en_b_th

These performances are valid for liquids with density ρ = 1.0 Kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

* Maximum value of absorbed motor power within the operating range.

** P2 = Rated shaft power.

*** Seal = A = Carbon / Ceramic motor-side mechanical seal
B = Tungsten Carbide / Ceramic motor-side mechanical seal

GLV SERIES
Electrical data table at 50 Hz

PUMP TYPE	min^{-1}	Pgr (P1) kW *	(P2) Nom kW **	VOLTAGE / PHASES ***	CURRENT ABSORBED I_{abs}(A)	CURRENT INRUSH I_{sp}(A)	START	ELECTRICAL TABLE TYPE	RUNNING CAPACITOR µF/V	STARTING CAPACITOR µF/V
GLV 50-12-251-S	2900	1,5	1,2	230/1	6,7	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLV 50-12-251-P	2900	1,5	1,2	230/1	6,7	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLV 50-15-251-S	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLV 50-15-251-P	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLV 50-16-253-S	2900	1,9	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLV 50-16-253-P	2900	1,9	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLV 50-20-253-S	2900	2,6	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLV 50-20-253-P	2900	2,6	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLV 50-24-253-S	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLV 50-24-253-P	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLV 65-15-251	2900	2	1,5	230/1	8,4	32	DOL	4G1,5 + 2x1,5	35/400	100/330
GLV 65-16-253	2900	2	1,6	400/3	3,6	27	DOL	4G1,5 + 2x1,5	-	-
GLV 65-20-253	2900	2,5	2	400/3	4,3	27	DOL	4G1,5 + 2x1,5	-	-
GLV 65-24-253	2900	3,2	2,4	400/3	5,1	27	DOL	4G1,5 + 2x1,5	-	-
GLV 65-32-253	2900	3,8	3,2	400/3	6,1	52	YD	7G2,5 + 2x1,5	-	-
GLV 65-42-253	2900	5,3	4,2	400/3	8,2	52	YD	7G2,5 + 2x1,5	-	-
GLV 80-32-253	2900	3,8	3,2	400/3	6,1	52	YD	7G2,5 + 2x1,5	-	-
GLV 80-42-253	2900	5,3	4,2	400/3	8,2	52	YD	7G2,5 + 2x1,5	-	-
GLV 80-59-253	2900	6,9	5,9	400/3	11	114	YD	7G2,5 + 2x1,5	-	-
GLV 80-74-253	2900	8,7	7,4	400/3	14	114	YD	7G2,5 + 2x1,5	-	-
GLV 100-24-453	1450	2,8	2,4	400/3	5,5	38	YD	7G2,5 + 2x1,5	-	-
GLV 100-31-453	1450	3,7	3,1	400/3	6,7	38	YD	7G2,5 + 2x1,5	-	-
GLV 100-45-453	1450	5,3	4,5	400/3	9,7	77	YD	7G2,5 + 2x1,5	-	-
GLV 100-59-453	1450	7	5,9	400/3	12	77	YD	7G2,5 + 2x1,5	-	-

Stator thermal protection included in all models. GLV-en_B_te

* Maximum value of absorbed motor power within the operating range.

** P2 = Rated shaft power.

*** All the pumps are available also in 220 and 240 versions (single-phase) and 380 and 415 versions (three-phase).

MINIBOX Series

Prefabricated compact lifting systems designed to collect domestic effluent (excluding toilet waste) where gravity drainage is not possible.

Specifications

85-litre polythene tank
Pump: DOC series (DOC 3 or DOC 7) equipped with a float switch for automatic operation
Power supply: single-phase
50 and 60 Hz
Power: 0.25 kW to 0.55 kW
Complete with: screen and sand filter basin, flexible tube with check valve, three diameter 40 mm outlet flanges

Installation is fast and easy, just connect the pipes and plug it in.
Minibox can be installed on the floor, buried or sunk in concrete (to withstand the weight of vehicles).
Minibox is fitted with a screen and sand filter basin for the collection of water infiltration or runoff, as in the case of a garage ramp.



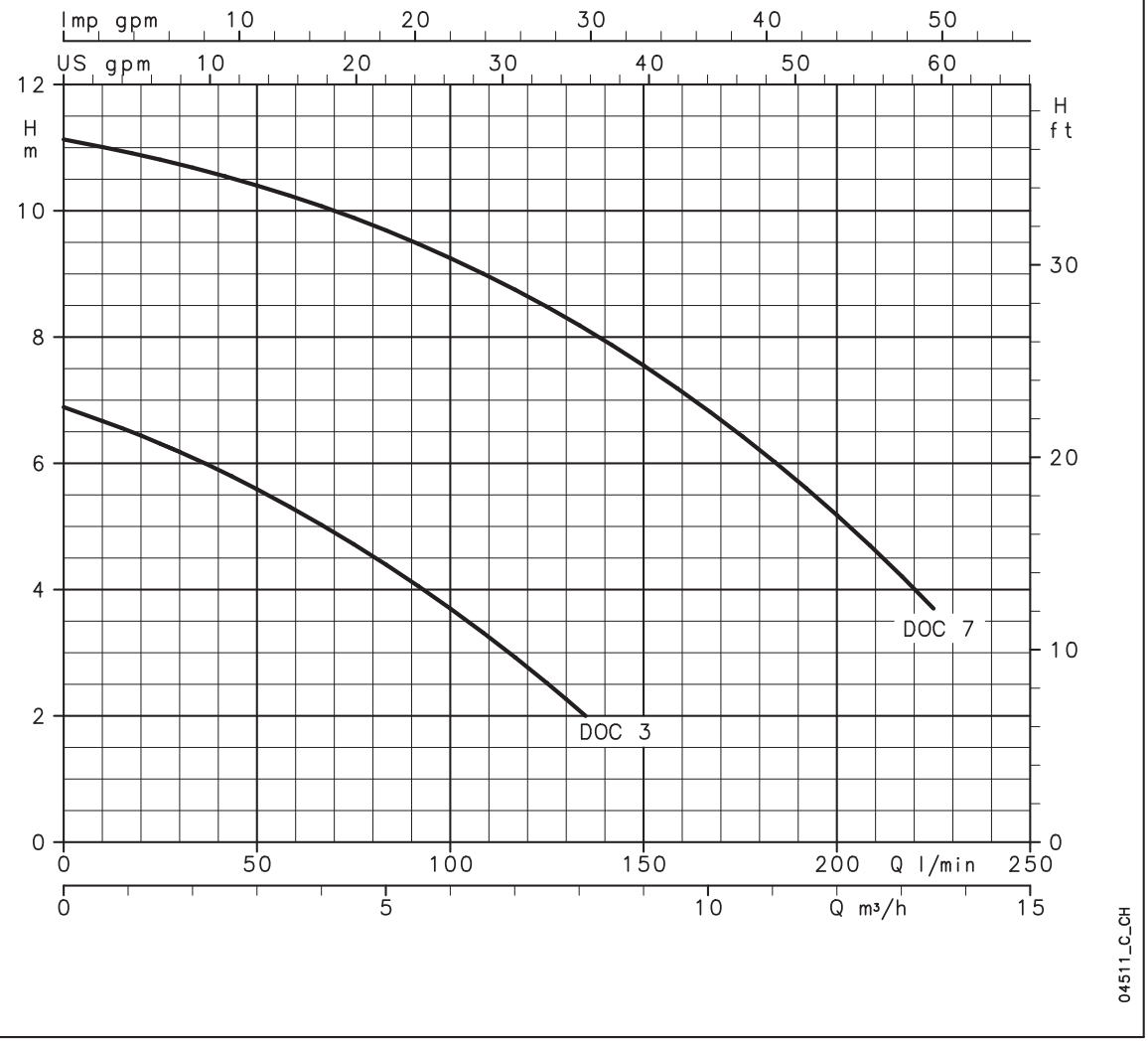
Applications

Residential effluent (excluding toilet waste), rain water and domestic wastewater.

For a complete list of technical information, consult www.lowara.com

MINIBOX SERIES
Operating characteristics at 50 Hz

MINIBOX	DOC	~ 2850 rpm	ISO 9906-Annex A



MINIBOX SERIES
Hydraulic performance table

PUMP TYPE	RATED POWER		Q = DELIVERY								
			l/min	0	25	50	75	100	125	135	175	225
			m^3/h	0	1,5	3	4,5	6	7,5	8,1	10,5	13,5
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER									
DOC3	0,25	0,33		6,9	6,3	5,6	4,7	3,7	2,5	2,0		
DOC7	0,55	0,75		11,1	10,8	10,4	9,9	9,3	8,5	8,1	6,5	3,7

These performances (referred tothe single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s. mbox_doc-2p50_b_th

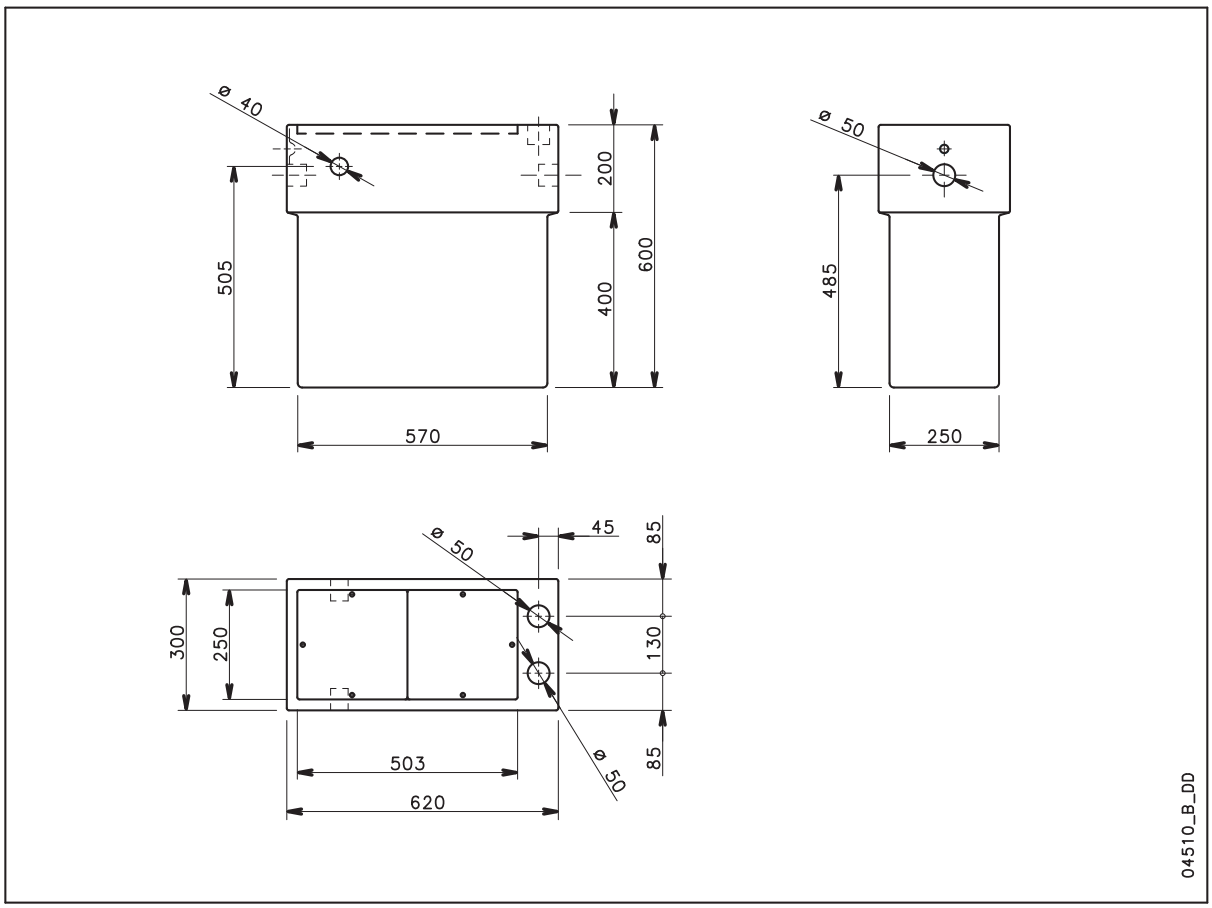
Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 A	CAPACITOR F / 450 V	PUMP TYPE THREE-PHASE	ABSPRBED POWER* kW	ABSORBED CURRENT* 220-240 A	ABSORBED CURRENT* 380-415 A
DOC 3	0,31	1,43	6,3	-	-	-	-
DOC 7	0,78	3,47	16	-	-	-	-

*Maximum values within operating range. mbox_doc-2p50_a_te

3

MINIBOX SERIES
Dimensions and weights



MIDIBOX Series

Prefabricated lifting station for clean and gray water in compliance with EN 12050-2 standard.

Specifications

The station is equipped with:
- Polyethylene basin with a capacity of 110 litres, equipped with a threaded cover.
- Cable glands for power supply cables (and floats).
- Rp 1"1/4 or 1"1/2 delivery pipes with fast connection and ring nut for easy disassembly of the pump.
- 3 fast connections:
1 x DN110 for inlet,
1 x DN50 for ventilation and
1 x DN65 for cable connection.
- 1 x DN50 fast connection for the manual pump.
- DOC or DOMO 7 submersible pump, vortex or channel impeller type.
- QDR control panel for threephase versions.

Midibox can be installed on the floor or buried in a suitable structure following instructions in the "Instructions and Operative Manual".

Easy installation:
- installation is quick and easy: for the single-phase versions you just connect the pipes and the electrical cables; for the three-phase versions you also need to connect the control panel.
- The new Midibox is provided with side handles for ease of handling.
- Pre-installed delivery pump and unions.

Ecological solution:
- tank made from 100% recyclable polyethylene.

Easy maintenance and repair.
- Tried and tested pump technology.
- Pump quick and easy to remove thanks to the ring nut located

Accessories

Ball check valves

Alarm kit

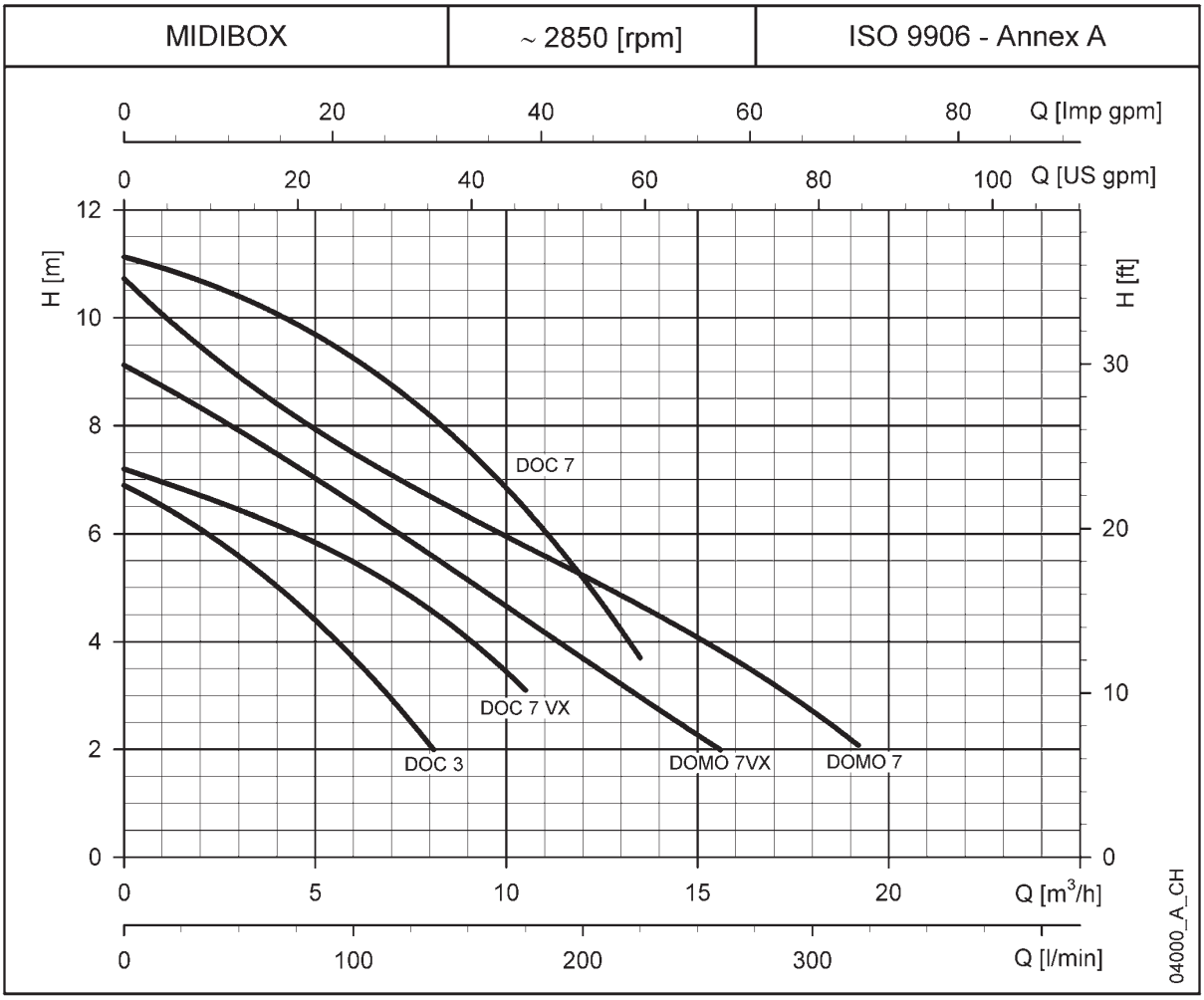
Connector kit

Manual pump



For a complete list of technical information, consult www.lowara.com

MIDIBOX SERIES
Operating characteristics at 50 Hz



MIDIBOX SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY								
			l/min	0	30	60	90	135	175	225	260	320
			m^3/h	0	1,8	3,6	5,4	8,1	10,5	13,5	15,6	19,2
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER									
DOC 3	0,25	0,33	6,9	6,2	5,3	4,1	2,0					
DOC 7(T)	0,55	0,75	11,1	10,7	10,2	9,5	8,1	6,5	3,7			
DOC 7VX(T)	0,55	0,75	7,2	6,8	6,3	5,7	4,5	3,1				
DOMO 7(T)	0,55	0,75	10,7	9,6	8,6	7,8	6,7	5,8	4,7	3,8	2,1	
DOMO 7VX(T)	0,55	0,75	9,1	8,4	7,7	6,8	5,6	4,4	3,0	2,0		

These performances (referred tothe single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

midibox-2p50_a_th

MIDIBOX SERIES
Electrical data at 50 Hz

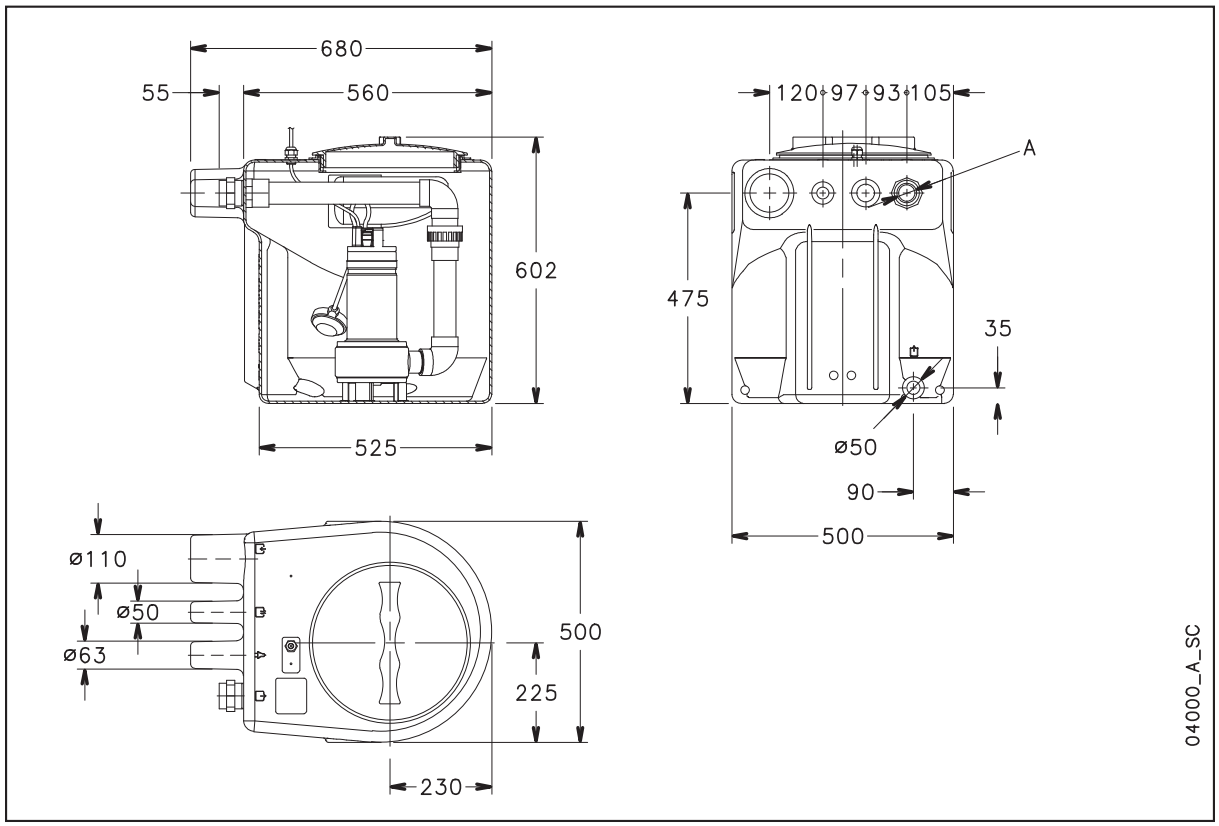
PUMP TYPE SINGLE-PHASE	ABSORBED POWER*	ABSORBED CURRENT* 220-240	CAPACITOR
	kW	A	µF / 450 V
DOC 3	0,31	1,43	6,3
DOC 7	0,78	3,47	16
DOC 7VX	0,66	2,96	16
DOMO 7	0,8	3,94	16
DOMO 7VX	0,79	3,91	16

PUMP TYPE THREE-PHASE	ABSPRBED POWER*	ABSORBED CURRENT* 220-240	ABSORBED CURRENT* 380-415
	kW	A	A
-	-	-	-
DOC 7T	0,79	2,82	1,63
DOC 7VXT	0,66	2,68	1,55
DOMO 7T	0,73	2,58	1,49
DOMO 7VXT	0,71	2,56	1,48

*Maximum values within operating range.

midibox-2p50_a_te

MIDIBOX SERIES
Dimensions and weights



SINGLEBOX PLUS Series

Prefabricated lifting station for wastewater in compliance with EN 12050-1/2 standard.

Specifications

The standard station is equipped with:
- polyethylene basin with a capacity of 270 litres, equipped with a threaded pedestrian cover (100 kg max).
- Cable glands for power supply cables (and floats).
- Rp 1"1/2 or 2" delivery pipes with fast connection and ring nut for easy disassembly of the pump or with sliding device.
- 4 fast connections:
2 x DN110 for inlet,
1 x DN50 for ventilation and
1 x DN65 for cable connection.
- 1 x DN50 fast connection for the manual pump.
- DOMO or DL submersible pump, vortex, channel impeller type or with grinder device.
- QDR control panel for three-phase versions.
- 3 rubber seal:
1 x DN110, 1 x DN50 and 1 x DN65 mm.

Special versions equipped with delivery pipes, ball check valve and gate valve.

Special versions equipped with sliding device and non-return ball valve.

Singlebox plus can be installed on the floor or buried in a suitable structure following instructions in the "Instructions and Operative Manual".

Easy installation:
- installation is quick and easy:
for the single-phase versions you just connect the pipes and the electrical cables; for the three-phase versions you also need to connect the control panel.
- The new Singlebox plus is provided side handles for ease of handling.
- Pre-installed delivery pump and unions.

Ecological solution:
- tank made from 100% recyclable polyethylene.
- Airtight anti-pollution tank,pursuant to European standard EN 12050.

Easy maintenance and repair.
- Tried and tested pump technology.
- Pump quick and easy to remove

thanks to the ring nut located near the cover.

Accessories

Ball check valves

Alarm kit

Manual pump + seal

Seals kit



3

SINGLEBOX PLUS

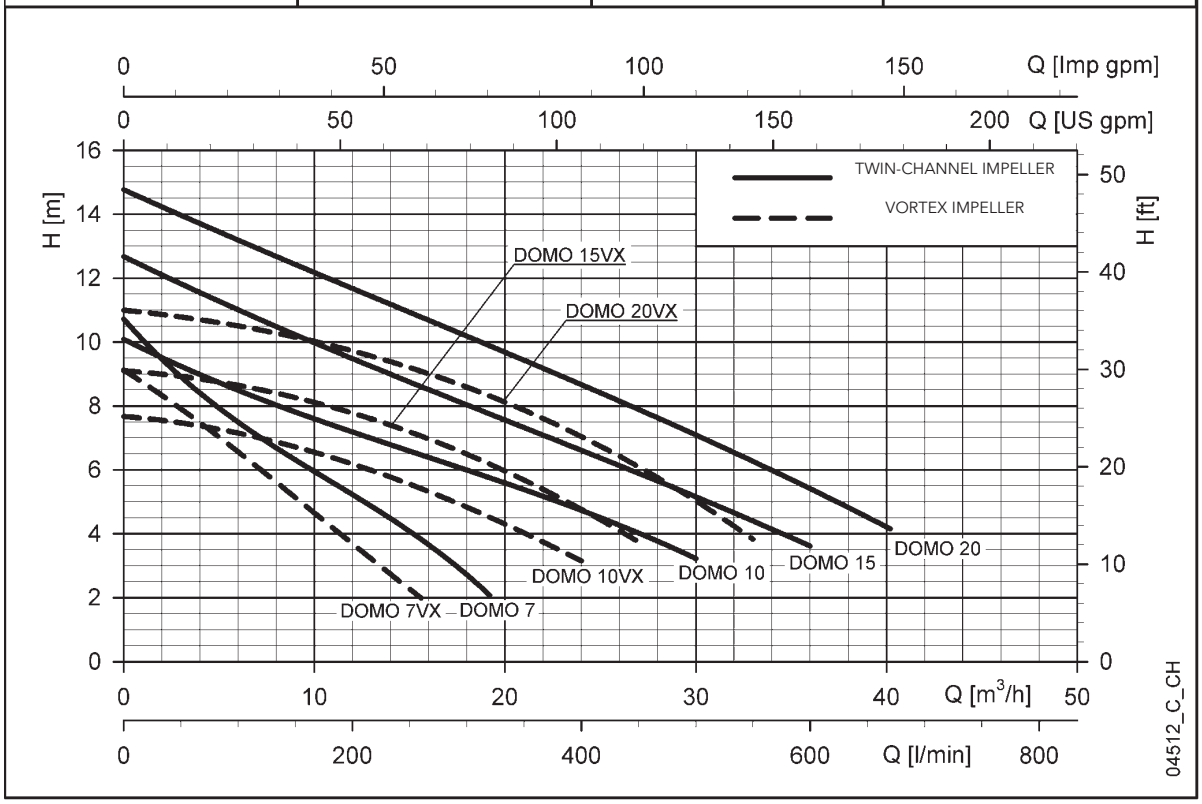
			CHARACTERISTICS					FEATURED COMPONENTS			VERSIONS			
			kW	HP	Q max (l/min)	H max (m)	Impeller type	Control panel	Float pre-assembles on pump	Float (10 m cable)	Standard with ring nut	Ring nut, non-return valve and gate valve	Standard	With non-return valve
SINGLEBOX PLUS DOMO 7	FIXED PVC PIPE FITTINGS	SINGLE-PHASE	0,55	0,75	320	10,7	TWIN CHANNEL		X		X	X		
SINGLEBOX PLUS DOMO 7VX			0,55	0,75	260	9,1	VORTEX		X		X	X		
SINGLEBOX PLUS DOMO 10			0,75	1	500	10,1	TWIN CHANNEL		X		X	X		
SINGLEBOX PLUS DOMO 10VX			0,75	1	400	7,7	VORTEX		X		X	X		
SINGLEBOX PLUS DOMO 15			1,1	1,5	600	12,7	TWIN CHANNEL		X		X	X		
SINGLEBOX PLUS DOMO 15VX			1,1	1,5	450	9,1	VORTEX		X		X	X		
SINGLEBOX PLUS DOMO GRI 11			1,1	1,5	110	25	GRINDER		X		X	X		
SINGLEBOX PLUS DOMO 7T		THREE-PHASE	0,55	0,75	320	10,7	TWIN CHANNEL	X		X	X	X		
SINGLEBOX PLUS DOMO 7VXT			0,55	0,75	260	9,1	VORTEX	X		X	X	X		
SINGLEBOX PLUS DOMO 10T			0,75	1	500	10,1	TWIN CHANNEL	X		X	X	X		
SINGLEBOX PLUS DOMO 10VXT			0,75	1	400	7,7	VORTEX	X		X	X	X		
SINGLEBOX PLUS DOMO 15T			1,1	1,5	600	12,7	TWIN CHANNEL	X		X	X	X		
SINGLEBOX PLUS DOMO 15VXT			1,1	1,5	450	9,1	VORTEX	X		X	X	X		
SINGLEBOX PLUS DOMO 20T			1,5	2	670	14,8	TWIN CHANNEL	X		X	X	X		
SINGLEBOX PLUS DOMO 20VXT			1,5	2	550	11	VORTEX	X		X	X	X		
SINGLEBOX PLUS DOMO GRI 11T			1,1	1,5	110	25	GRINDER	X		X	X	X		
SINGLEBOX PLUS DOMO 10	LOWERING DEVICE	SINGLE-PHASE	0,75	1	500	10,1	TWIN CHANNEL		X				X	X
SINGLEBOX PLUS DOMO 10VX			0,75	1	400	7,7	VORTEX		X				X	X
SINGLEBOX PLUS DOMO 15			1,1	1,5	600	12,7	TWIN CHANNEL		X				X	X
SINGLEBOX PLUS DOMO 15VX			1,1	1,5	450	9,1	VORTEX		X				X	X
SINGLEBOX PLUS DOMO GRI 11			1,1	1,5	110	25	GRINDER		X				X	X
SINGLEBOX PLUS DOMO 10T		THREE-PHASE	0,75	1	500	10,1	TWIN CHANNEL	X		X			X	X
SINGLEBOX PLUS DOMO 10VXT			0,75	1	400	7,7	VORTEX	X		X			X	X
SINGLEBOX PLUS DOMO 15T			1,1	1,5	600	12,7	TWIN CHANNEL	X		X			X	X
SINGLEBOX PLUS DOMO 15VXT			1,1	1,5	450	9,1	VORTEX	X		X			X	X
SINGLEBOX PLUS DOMO 20T			1,5	2	670	14,8	TWIN CHANNEL	X		X			X	X
SINGLEBOX PLUS DOMO 20VXT			1,5	2	550	11	VORTEX	X		X			X	X
SINGLEBOX PLUS DOMO GRI 11T			1,1	1,5	110	25	GRINDER	X		X			X	X
SINGLEBOX PLUS DLFM 80		SINGLE-PHASE	0,6	0,8	350	7,6	SINGLE CHANNEL		X				X	X
SINGLEBOX PLUS DLFM 90			0,6	0,8	450	9,7	SINGLE CHANNEL		X				X	X
SINGLEBOX PLUS MINI VORTEX M			0,6	0,8	300	7,2	VORTEX		X				X	X
SINGLEBOX PLUS DLM 109			1,1	1,5	600	18,3	SINGLE CHANNEL		X				X	X
SINGLEBOX PLUS DLVM 100			1,1	1,5	500	10,6	VORTEX		X				X	X
SINGLEBOX PLUS DLF 80		THREE-PHASE	0,6	0,8	350	7,6	SINGLE CHANNEL	X		X			X	X
SINGLEBOX PLUS DLF 90			0,6	0,8	450	9,7	SINGLE CHANNEL	X		X			X	X
SINGLEBOX PLUS MINI VORTEX			0,6	0,8	300	7,2	VORTEX	X		X			X	X
SINGLEBOX PLUS DLF 105			1,1	1,5	500	14,1	SINGLE CHANNEL	X		X			X	X
SINGLEBOX PLUS DL 109			1,1	1,5	600	18,3	SINGLE CHANNEL	X		X			X	X
SINGLEBOX PLUS DLV 100			1,1	1,5	500	10,6	VORTEX	X		X			X	X
SINGLEBOX PLUS DLF VORTEX			1,1	1,5	500	8,4	VORTEX	X		X			X	X
SINGLEBOX PLUS DL 125			1,5	2	700	21,9	SINGLE CHANNEL	X		X			X	X
SINGLEBOX PLUS DLV 115			1,5	2	600	13,1	VORTEX	X		X			X	X

sboxplus_modelli_a_sc

Notes

Single-phase pumps come with start capacitor, overload protection and float switch.
Versions with control panel and accessories are available on request.

SINGLEBOX	DOMO - DOMO VX	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

	PUMP TYPE	RATED POWER		Q =DELIVERY												
				l/min	0	50	100	150	200	250	300	320	400	500	600	670
				m^3 h	0	3	6	9	12	15	18	19,2	24	30	36	40,2
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DOMO	DOMO 7(T)	0,55	0,75	10,7	8,9	7,5	6,3	5,2	4,1	2,7	2,1					
DOMO	DOMO 10(T)	0,75	1	10,1	9,2	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2			
DOMO	DOMO 15(T)	1,1	1,5	12,7	11,8	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6		
DOMO	DOMO 20T	1,5	2	14,8	14,0	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2	

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	80	100	150	175	200	225	260	300	400	450	550
				m3/h	0	4,8	6	9	10,5	12	13,5	15,6	18	24	27	33
		kW	HP	H = TOTAL HEAD METRES COLUMN AF WATER												
DOMO VX	DOMO 7VX(T)	0,55	0,75	9,1	7,1	6,6	5,1	4,4	3,7	3,0	2,0					
DOMO VX	DOMO 10VX(T)	0,75	1	7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1			
DOMO VX	DOMO 15VX(T)	1,1	1,5	9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7		
DOMO VX	DOMO 20VXT	1,5	2	11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8	

These performances (referred tothe single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

sbox_domo-domovx-2p50_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO 7	0,8	3,94	16
DOMO 10	1,14	5,84	22
DOMO 15	1,58	7,02	30
-	-	-	-
DOMO 7VX	0,79	3,91	16
DOMO 10VX	1,15	5,88	22
DOMO 15VX	1,36	6,11	30
-	-	-	-

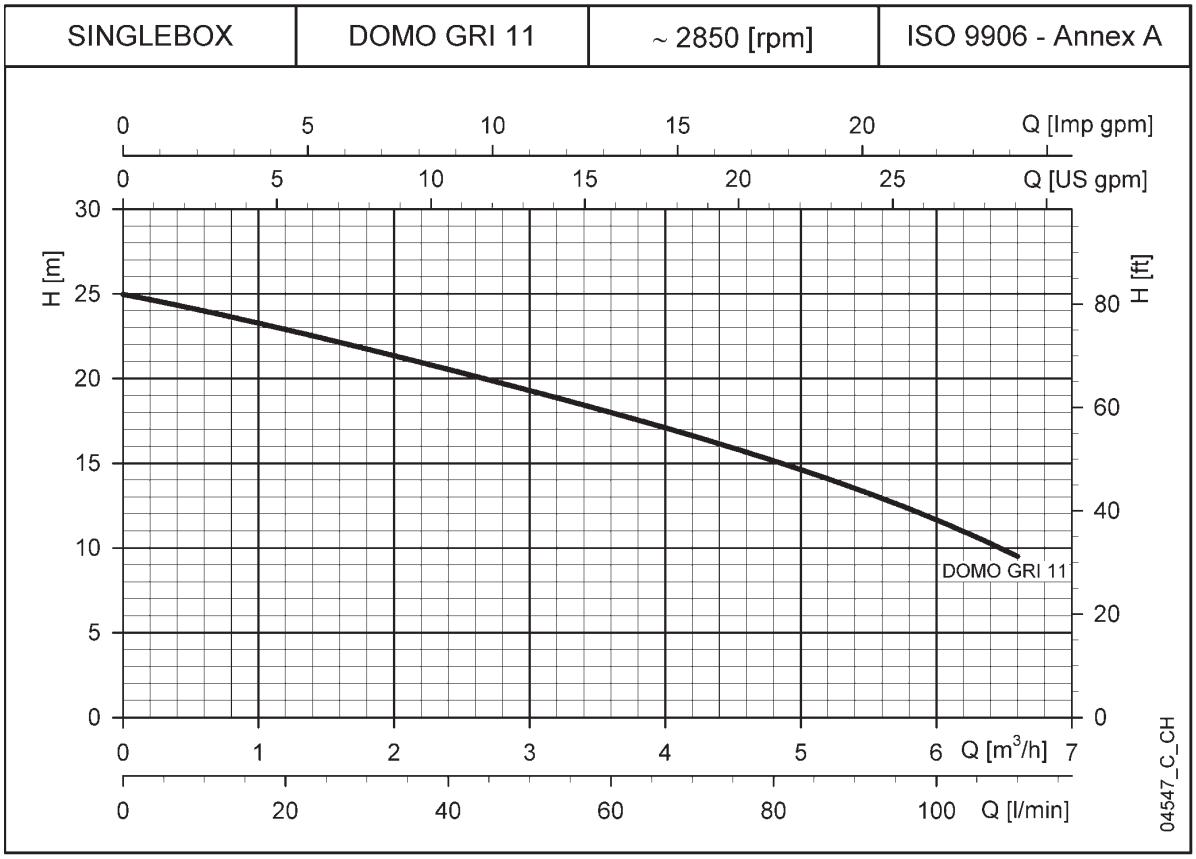
*Maximum values within operating range.

PUMP TYPE THREE-PHASE	ABSPRBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DOMO 7T	0,73	2,58	1,49
DOMO 10T	1,09	4,09	2,36
DOMO 15T	1,49	4,73	2,73
DOMO 20T	1,96	6,6	3,81
DOMO 7VXT	0,71	2,56	1,48
DOMO 10VXT	1,1	4,09	2,36
DOMO 15VXT	1,26	4,31	2,49
DOMO 20VXT	1,74	6,22	3,59

sbox_domo-domovx-2p50_a_te

SINGLEBOX PLUS SERIES DOMO GRI
Operating characteristics at 50 Hz

SINGLEBOX	DOMO GRI 11	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

DOMO GRI	PUMP TYPE	RATED POWER		Q = DELIVERY											
				l/min	0	15	30	40	50	60	70	80	90	100	110
				m3/h	0	0,9	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
	DOMO GRI 11	1,1	1,5	25,0	23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5	
	DOMO GRI 11T														

These performance (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

sbox_domo-gri-2p50-en_b_th

Electrical data

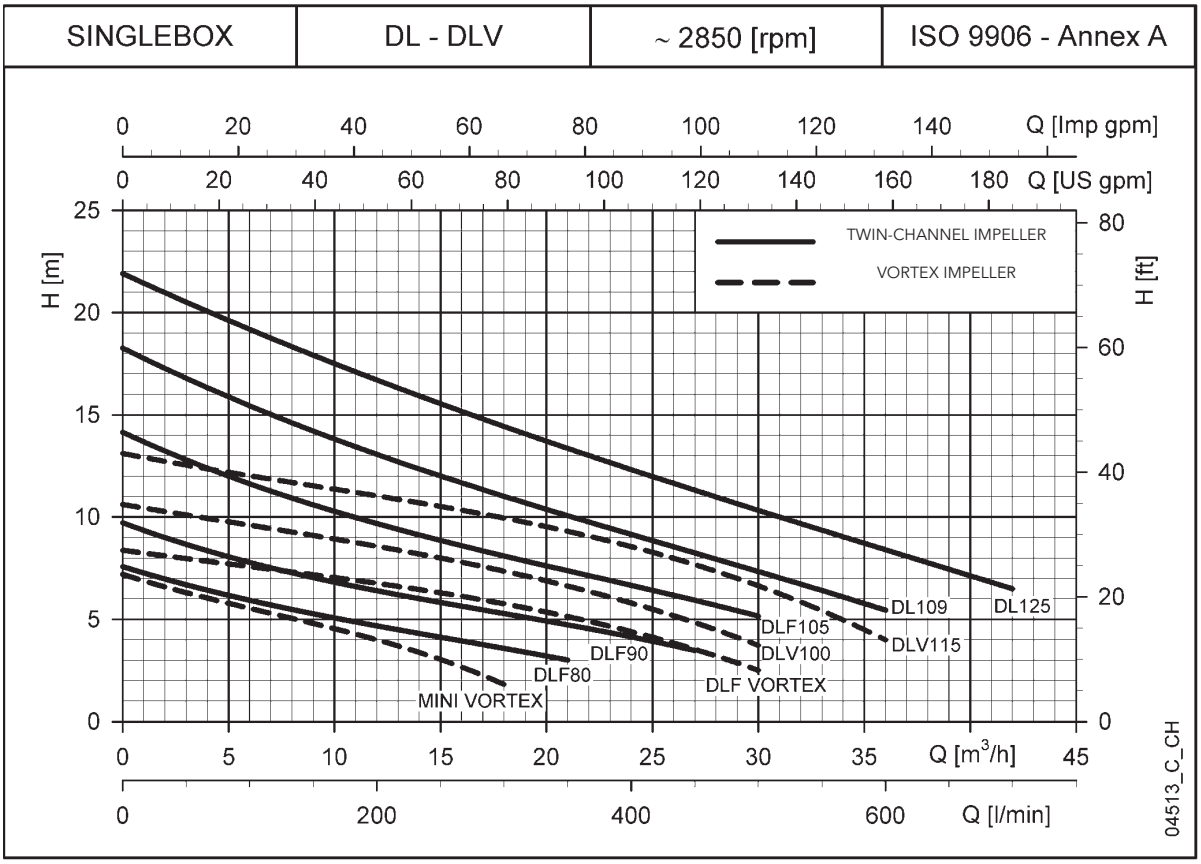
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO GRI 11	1,5	6,84	30

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DOMO GRI 11T	1,39	4,55	2,63

*Maximum values within operating range.

sbox_domo-gri-2p50-en_a_te

SINGLEBOX PLUS SERIES DL-DLV
Operating characteristics at 50 Hz



Hydraulic performance table

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	100	150	200	250	300	350	400	450	500	600	700
				m³/h	0	6	9	12	15	18	21	24	27	30	36	42
		kW	HP	H = TOTAL HEAD METRES COOLUMN OF WATER												
DL	DLF(M) 80	0,6	0,8	7,6	5,9	5,3	4,7	4,1	3,6	3,0						
DL	DLF(M) 90	0,6	0,8	9,7	7,8	7,0	6,4	5,8	5,3	4,7	4,1	3,5				
DL	DLF 105	1,1	1,5	14,1	11,6	10,6	9,7	8,9	8,1	7,4	6,7	5,9	5,2			
DL	DL(M) 109	1,1	1,5	18,3	15,4	14,2	13,1	12,0	11,0	10,1	9,2	8,2	7,3	5,4		
DL	DL 125	1,5	2	21,9	19,2	17,9	16,7	15,5	14,4	13,4	12,3	11,3	10,3	8,4	6,5	

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	50	100	150	200	250	300	350	400	450	500	600	
				m³/h	0	3	6	9	12	15	18	21	24	27	30	36	
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER													
DLV	MINI VORTEX(M)	0,6	0,8	7,2	6,3	5,5	4,8	4,0	3,0	1,8							
DLV	DLF VORTEX	1,1	1,5	8,4	8,0	7,6	7,2	6,8	6,3	5,8	5,1	4,4	3,5	2,5			
DLV	DLV(M) 100	1,1	1,5	10,6	10,1	9,6	9,1	8,6	8,0	7,4	6,6	5,8	4,8	3,7			
DLV	DLV 115	1,5	2	13,1	12,5	12,0	11,5	11,0	10,5	9,9	9,3	8,5	7,7	6,6	4,0		

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s. sbox_dl-dlv-2p50_b_th

Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT 220-240 V A	CAPACITOR μF / 450 V
DLFM 80	0,79	3,91	25
DLFM 90	0,89	4,27	25
-	-	-	-
DLM109	1,55	6,87	35
-	-	-	-
MINI VORTEX M	1,05	4,82	25
-	-	-	-
DLVM100	1,64	7,3	35
-	-	-	-

*Maximum values within operating range.

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DLF 80	0,80	-	2,09
DLF 90	0,92	3,81	2,20
DLF 105	1,43	4,66	2,69
DL 109	1,54	5,44	3,14
DL 125	2,14	6,58	3,80
MINI VORTEX	1,10	-	2,36
DLF VORTEX	1,66	5,11	2,95
DLV 100	1,65	5,63	3,25
DLV 115	2,25	6,81	3,93

sbox_dl-dlv-2p50_b_te

DOUBLEBOX PLUS Series

Prefabricated lifting station for wastewater in compliance with EN 12050-1/2 standard.

Specifications

The standard station is equipped with:
- polyethylene basin with a capacity of 550 litres, equipped with two threaded pedestrian covers (100 kg max).
- Cable glands for power supply cables (and floats).
- 2x Rp 1"1/2 or 2" delivery pipes with fast connections and ring nuts for easy disassembly of the pumps or with sliding device.
- 8 fast connections:
4 x DN110 for inlet,
2 x DN50 for ventilation and
2 x DN65 for cable connection.
- 1 x DN50 fast connection for the manual pump.
- 2x DOMO or DL submersible pumps, vortex, channel impeller type or with grinder device.
- QXR2 control panel for three-phase versions.
- 3 rubber seal:
1 x DN110, 1 x DN50 and
1 x DN65 mm.

Special versions equipped with delivery pipes, ball check valve and gate valve.

Special versions equipped with sliding device and non-return ball valve.

Doublebox plus can be installed on the floor or buried in a suitable structure following instructions in the "Instructions and Operative Manual".

Easy installation:
- installation is quick and easy:
for the single-phase versions you just connect the pipes and the electrical cables; for the three-phase versions you also need to connect the control panel.
- The new Doublebox plus is provided side handles for ease of handling.
- Pre-installed delivery pump and unions.

Ecological solution:
- tank made from 100% recyclable polyethylene.
- Airtight anti-pollution tank, pursuant to European standard EN 12050.

Easy maintenance and repair.

- Tried and tested pump technology.
- Pump quick and easy to remove thanks to the ring nut located near the cover.

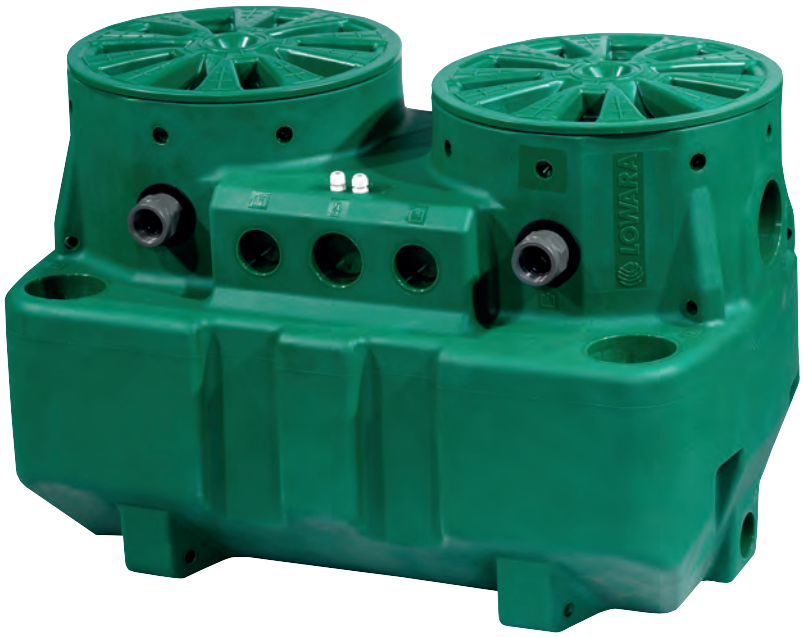
Accessories

Ball check valves

Alarm kit

Manual pump + seal

Seals kit



For a complete list of technical information, consult www.lowara.com

DOUBLEBOX PLUS

DATA REFERS TO 2 PUMPS RUNNING SIMULTANEOUSLY

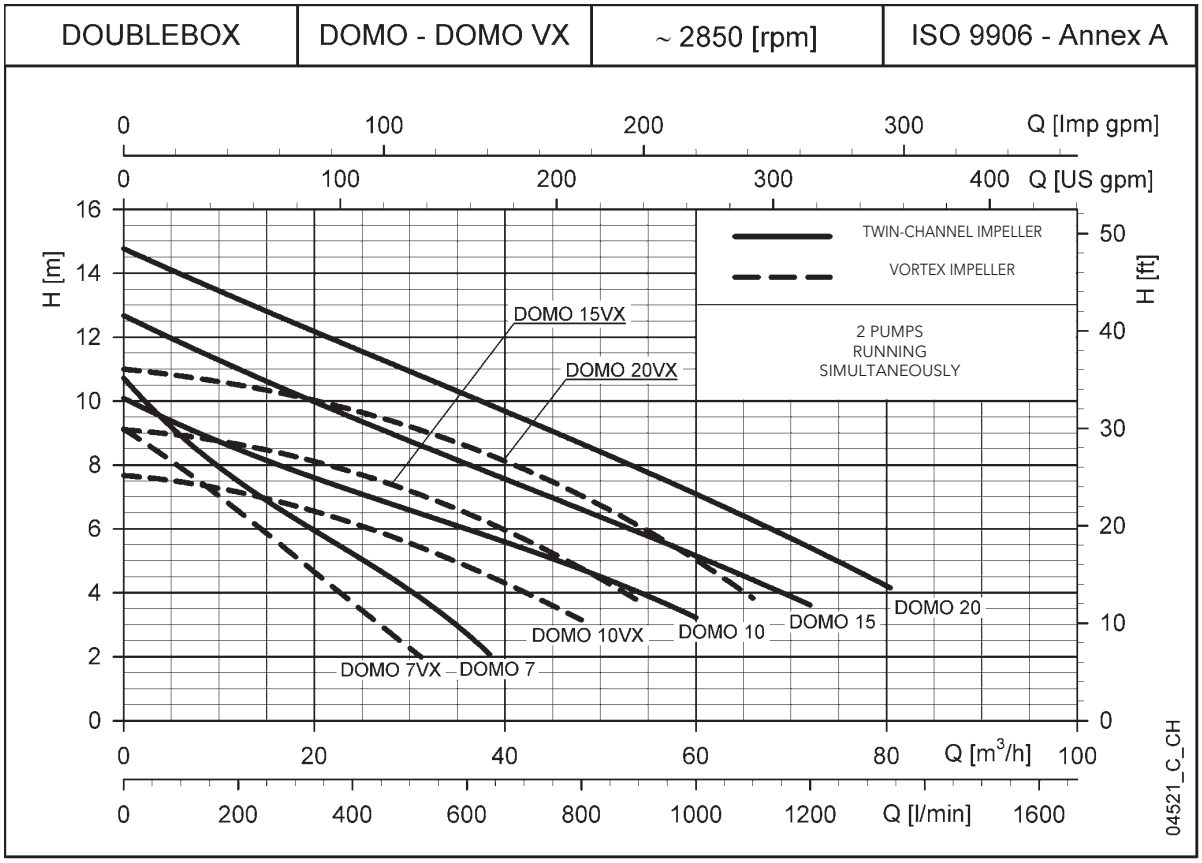
			CHARACTERISTICS					FEATURED COMPONENTS			VERSIONS			
			kW	HP	Q max (l/min)	H max (m)	TImpeller type	Control panel	Float pre-assembled on pump	Float (10 m cable)	Standard with ring nut	Ring nut, non-return valve and gate valve	Standard	With non-return valve
DOUBLEBOX PLUS DOMO 7	FIXED PVC PIPE FITTINGS	SINGLE-PHASE	2x0,55	2x0,75	640	10,7	TWIN CHANNEL		X		X	X		
DOUBLEBOX PLUS DOMO 7VX			2x0,55	2x0,75	520	9,1	VORTEX		X		X	X		
DOUBLEBOX PLUS DOMO 10			2x0,75	2x1	1000	10,1	TWIN CHANNEL		X		X	X		
DOUBLEBOX PLUS DOMO 10VX			2x0,75	2x1	800	7,7	VORTEX		X		X	X		
DOUBLEBOX PLUS DOMO 15			2x1,1	2x1,5	1200	12,7	TWIN CHANNEL		X		X	X		
DOUBLEBOX PLUS DOMO 15VX			2x1,1	2x1,5	900	9,1	VORTEX		X		X	X		
DOUBLEBOX PLUS DOMO GRI 11			2x1,1	2x1,5	220	25	GRINDER		X		X	X		
DOUBLEBOX PLUS DOMO 7T		THREE-PHASE	2x0,55	2x0,75	640	10,7	TWIN CHANNEL	X		X	X	X		
DOUBLEBOX PLUS DOMO 7VXT			2x0,55	2x0,75	520	9,1	VORTEX	X		X	X	X		
DOUBLEBOX PLUS DOMO 10T			2x0,75	2x1	1000	10,1	TWIN CHANNEL	X		X	X	X		
DOUBLEBOX PLUS DOMO 10VXT			2x0,75	2x1	800	7,7	VORTEX	X		X	X	X		
DOUBLEBOX PLUS DOMO 15T			2x1,1	2x1,5	1200	12,7	TWIN CHANNEL	X		X	X	X		
DOUBLEBOX PLUS DOMO 15VXT			2x1,1	2x1,5	900	9,1	VORTEX	X		X	X	X		
DOUBLEBOX PLUS DOMO 20T			2x1,5	2x2	1340	14,8	TWIN CHANNEL	X		X	X	X		
DOUBLEBOX PLUS DOMO 20VXT			2x1,5	2x2	1100	11	VORTEX	X		X	X	X		
DOUBLEBOX PLUS DOMO GRI 11T			2x1,1	2x1,5	220	25	GRINDER	X		X	X	X		
DOUBLEBOX PLUS DOMO 10	LOWERING DEVICE	SINGLE-PHASE	2x0,75	2x1	1000	10,1	TWIN CHANNEL		X				X	X
DOUBLEBOX PLUS DOMO 10VX			2x0,75	2x1	800	7,7	VORTEX		X				X	X
DOUBLEBOX PLUS DOMO 15			2x1,1	2x1,5	1200	12,7	TWIN CHANNEL		X				X	X
DOUBLEBOX PLUS DOMO 15VX			2x1,1	2x1,5	900	9,1	VORTEX		X				X	X
DOUBLEBOX PLUS DOMO GRI 11			2x1,1	2x1,5	220	25	GRINDER		X				X	X
DOUBLEBOX PLUS DOMO 10T		THREE-PHASE	2x0,75	2x1	1000	10,1	TWIN CHANNEL	X		X			X	X
DOUBLEBOX PLUS DOMO 10VXT			2x0,75	2x1	800	7,7	VORTEX	X		X			X	X
DOUBLEBOX PLUS DOMO 15T			2x1,1	2x1,5	1200	12,7	TWIN CHANNEL	X		X			X	X
DOUBLEBOX PLUS DOMO 15VXT			2x1,1	2x1,5	900	9,1	VORTEX	X		X			X	X
DOUBLEBOX PLUS DOMO 20T			2x1,5	2x2	1340	14,8	TWIN CHANNEL	X		X			X	X
DOUBLEBOX PLUS DOMO 20VXT			2x1,5	2x2	1100	11	VORTEX	X		X			X	X
DOUBLEBOX PLUS DOMO GRI 11T			2x1,1	2x1,5	220	25	GRINDER	X		X			X	X
DOUBLEBOX PLUS DLFM 80		SINGLE-PHASE	2x0,6	2x0,8	700	7,6	SINGLE CHANNEL		X				X	X
DOUBLEBOX PLUS DLFM 90			2x0,6	2x0,8	900	9,7	SINGLE CHANNEL		X				X	X
DOUBLEBOX PLUS MINI VORTEX M			2x0,6	2x0,8	600	7,2	VORTEX		X				X	X
DOUBLEBOX PLUS DLM 109			2x1,1	2x1,5	1200	18,3	SINGLE CHANNEL		X				X	X
DOUBLEBOX PLUS DLVM 100			2x1,1	2x1,5	1000	10,6	VORTEX		X				X	X
DOUBLEBOX PLUS DLF 80		THREE-PHASE	2x0,6	2x0,8	700	7,6	SINGLE CHANNEL	X		X			X	X
DOUBLEBOX PLUS DLF 90			2x0,6	2x0,8	900	9,7	SINGLE CHANNEL	X		X			X	X
DOUBLEBOX PLUS MINI VORTEX			2x0,6	2x0,8	600	7,2	VORTEX	X		X			X	X
DOUBLEBOX PLUS DLF 105			2x1,1	2x1,5	1000	14,1	SINGLE CHANNEL	X		X			X	X
DOUBLEBOX PLUS DL 109			2x1,1	2x1,5	1200	18,3	SINGLE CHANNEL	X		X			X	X
DOUBLEBOX PLUS DLV 100			2x1,1	2x1,5	1000	10,6	VORTEX	X		X			X	X
DOUBLEBOX PLUS DLF VORTEX			2x1,1	2x1,5	1000	8,4	VORTEX	X		X			X	X
DOUBLEBOX PLUS DL 125			2x1,5	2x2	1400	21,9	SINGLE CHANNEL	X		X			X	X
DOUBLEBOX PLUS DLV 115			2x1,5	2x2	1200	13,1	VORTEX	X		X			X	X

dboxplus_modelli_c_sc

Notes

Single-phase pumps come with start capacitor, overload protection and float switch. Versions with control panel and accessories are available on request.

DOUBLEBOX PLUS SERIES DOMO-DOMO VX
Operating characteristics at 50 Hz



Hydraulic performance table

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	100	200	300	400	500	600	640	800	1000	1200	1340
				m³ h	0	6	12	18	24	30	36	38,4	48	60	72	80,4
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DOMO	DOMO 7(T)	2x0,55	2x0,75	10,7	8,9	7,5	6,3	5,2	4,1	2,7	2,1					
	DOMO 10(T)	2x0,75	2x1	10,1	9,2	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2			
	DOMO 15(T)	2x1,1	2x1,5	12,7	11,8	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6		
	DOMO 20T	2x1,5	2 x 2	14,8	14,0	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2	

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	160	200	300	350	400	450	520	600	800	900	1100
				m3/h	0	9,6	12	18	21	24	27	31,2	36	48	54	66
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DOMO VX	DOMO 7VX(T)	2x0,55	2x0,75	9,1	7,1	6,6	5,1	4,4	3,7	3,0	2,0					
	DOMO 10VX(T)	2x0,75	2x1	7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1			
	DOMO 15VX(T)	2x1,1	2x1,5	9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7		
	DOMO 20VXT	2x1,5	2 x 2	11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8	

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dbox_domo-domovx-2p50_a_th

Electrical data

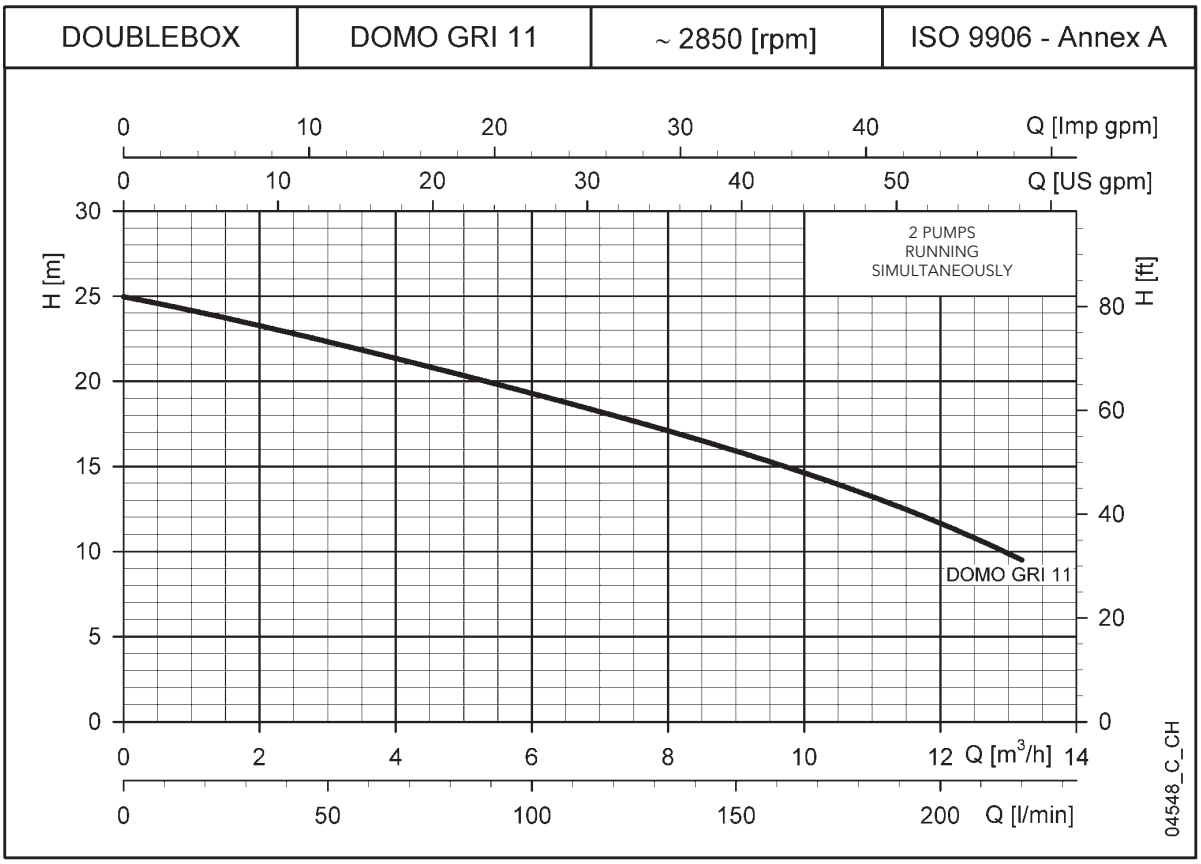
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO 7	2x0,8	2x3,94	2x16
DOMO 10	2x1,14	2x5,84	2x22
DOMO 15	2x1,58	2x7,02	2x30
-	-	-	-
DOMO 7VX	2x0,79	2x3,91	2x16
DOMO 10VX	2x1,15	2x5,88	2x22
DOMO 15VX	2x1,36	2x6,11	2x30
-	-	-	-

*Maximum values within operating range.

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DOMO 7T	2x0,73	2x2,58	2x1,49
DOMO 10T	2x1,09	2x4,09	2x2,36
DOMO 15T	2x1,49	2x4,73	2x2,73
DOMO 20T	2x1,96	2x6,6	2x3,81
DOMO 7VXT	2x0,71	2x2,56	2x1,48
DOMO 10VXT	2x1,1	2x4,09	2x2,36
DOMO 15VXT	2x1,26	2x4,31	2x2,49
DOMO 20VXT	2x1,74	2x6,22	2x3,59

dbox_domo-domovx-2p50_a_te

DOUBLEBOX PLUS SERIES DOMO GRI
Operating characteristics at 50 Hz



Hydraulic performance table

DOMO GRI	PUMP TYPE	RATED POWER		Q = DELIVERY											
				l/min	0	30	60	80	100	120	140	160	180	200	220
				m3/h	0	1,8	3,6	4,8	6	7,2	8,4	9,6	10,8	12	13,2
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
	DOMO GRI11	2x1,1	2x1,5	25,0		23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5
	DOMO GRI11T														

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dbox_domo-gri-2p50_b_th

Electrical data

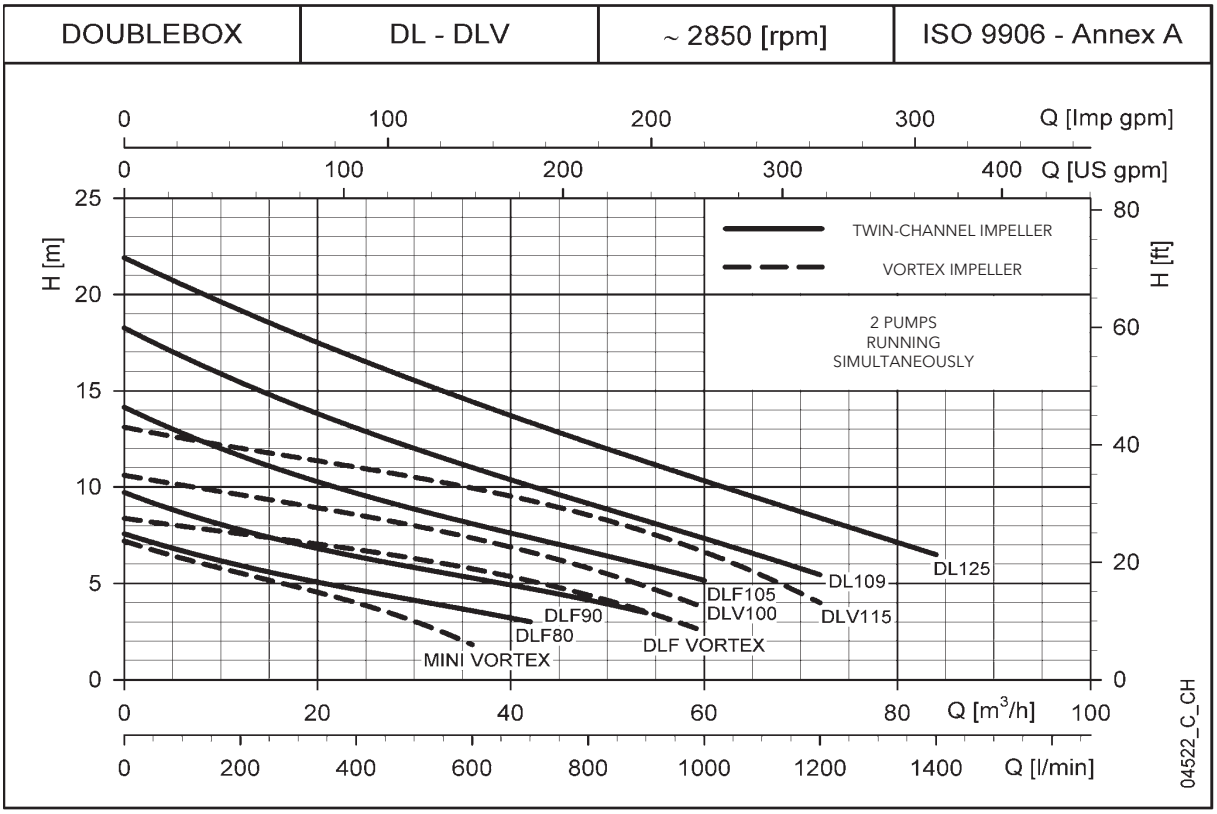
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO GRI11	2x1,5	2x6,84	2x30

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DOMO GRI11T	2x1,39	2x4,55	2x2,63

*Maximum values within operating range.

dbox_domo-gri-2p50_a_te

DOUBLEBOX PLUS SERIES DL-DLV
Operating characteristics at 50 Hz



Hydraulic performance table

	PUMP TYPE	RATED POWER		Q = DELIVERY											
				l/min	0	200	300	400	500	600	700	800	900	1000	1200	1400
				m³ h	0	12	18	24	30	36	42	48	54	60	72	84
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DL	DLF(M) 80	2x0,6	2x0,8	7,6	5,9	5,3	4,7	4,1	3,6	3,0						
	DLF(M) 90	2x0,6	2x0,8	9,7	7,8	7,0	6,4	5,8	5,3	4,7	4,1	3,5				
	DLF 105	2x1,1	2x1,5	14,1	11,6	10,6	9,7	8,9	8,1	7,4	6,7	5,9	5,2			
	DL(M) 109	2x1,1	2x1,5	18,3	15,4	14,2	13,1	12,0	11,0	10,1	9,2	8,2	7,3	5,4		
	DL 125	2x1,5	2x2	21,9	19,2	17,9	16,7	15,5	14,4	13,4	12,3	11,3	10,3	8,4	6,5	

	PUMP TYPE	RATED POWER		Q = DELIVERY											
				l/min	0	100	200	300	400	500	600	700	800	900	1000	1200
				m3/h	0	6	12	18	24	30	36	42	48	54	60	72
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DLV	MINI VORTEX(M)	2x0,6	2x0,8	7,2	6,3	5,5	4,8	4,0	3,0	1,8						
	DLF VORTEX	2x1,1	2x1,5	8,4	8,0	7,6	7,2	6,8	6,3	5,8	5,1	4,4	3,5	2,5		
	DLV(M) 100	2x1,1	2x1,5	10,6	10,1	9,6	9,1	8,6	8,0	7,4	6,6	5,8	4,8	3,7		
	DLV 115	2x1,5	2x2	13,1	12,5	12,0	11,5	11,0	10,5	9,9	9,3	8,5	7,7	6,6	4,0	

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

dbox_dl-dlv-2p50_b_th

Electrical data

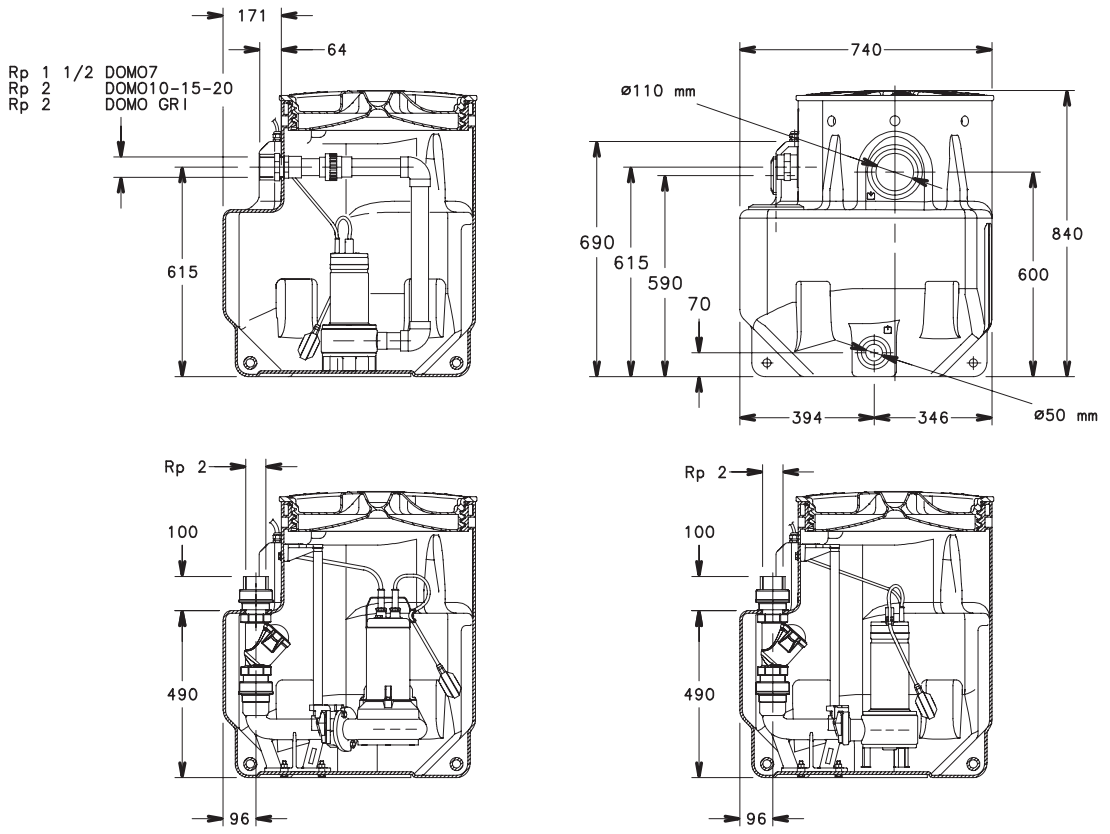
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DLFM 80	2x0,79	2x3,91	2x25
DLFM 90	2x0,89	2x4,27	2x25
-	-	-	-
DLM109	2x1,55	2x6,87	2x35
-	-	-	-
MINI VORTEX M	2x1,05	2x4,82	2x25
-	-	-	-
DLVM100	2x1,64	2x7,3	2x35
-	-	-	-

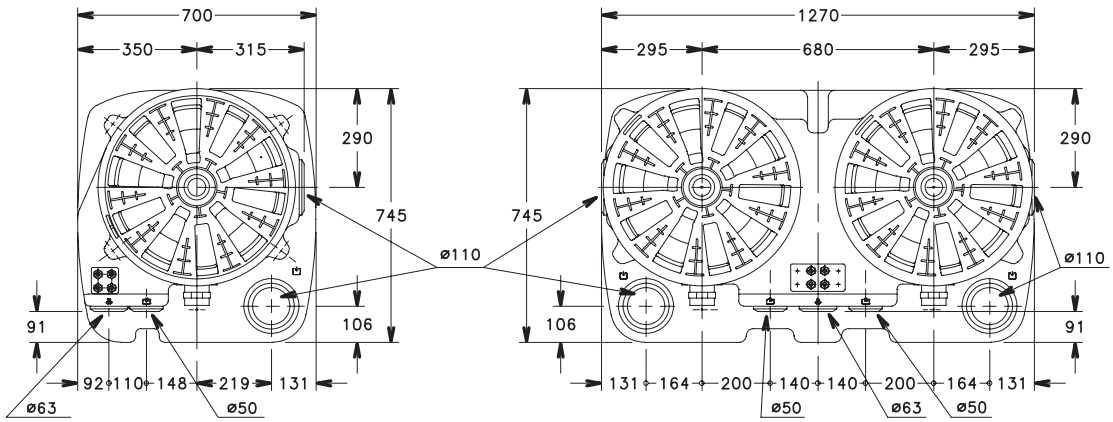
PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DLF 80	2x0,8	-	2x2,09
DLF 90	2x0,92	2x3,81	2x2,2
DLF 105	2x1,43	2x4,66	2x2,69
DL 109	2x1,54	2x5,44	2x3,14
DL 125	2x2,14	2x6,58	2x3,8
MINI VORTEX	2x1,1	-	2x2,36
DLF VORTEX	2x1,66	2x5,11	2x2,95
DLV 100	2x1,65	2x5,63	2x3,25
DLV 115	2x2,25	2x6,81	2x3,93

*Maximum values within operating range.

dbox_dl-dlv-2p50_b_te

DOUBLEBOX PLUS SERIES
Dimensions and weights





MODEL	WEIGHT (kg)			
	PVC	PVC BV	SL	SL BV
SINGLEBOX PLUS	23	27	32	36
DOUBLEBOX PLUS	44	51	62	69

sbox-dbox_a_td

04514_C_DD

MINIBOX
MIDIBOX
SINGLEBOX PLUS
DOUBLEBOX PLUS

Station	Use
MINIBOX DOC3	Clean water
MINIBOX DOC7	Clean water
MINIBOX DOC7VX	Clean water
MIDIBOX DOC3	Clean water
MIDIBOX DOC7	Clean water
MIDIBOX DOC7T	Clean water
MIDIBOX DOC7VX	EN 12050 - 2
MIDIBOX DOC7VXT	EN 12050 - 2
MIDIBOX DOMO7	EN 12050 - 2
MIDIBOX DOMO7T	EN 12050 - 2
MIDIBOX DOMO7VX	EN 12050 - 2
MIDIBOX DOMO7VXT	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 7	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 7T	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 7VX	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 7VXT	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 10	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 10T	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 10VX	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 10VXT	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 15	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 15T	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 15VX	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 15VXT	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 20T	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO 20VXT	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO GRI 11	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DOMO GRI 11T	EN 12050 - 1
SINGLEBOX PLUS / DOUBLEBOX PLUS DLFM 80	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLF 80	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLFM 90	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLF 90	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS MINI VORTEX M	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS MINI VORTEX	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLF 105	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLM 109	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DL 109	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLVM 100	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLV 100	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLF VORTEX	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DL 125	EN 12050 - 2
SINGLEBOX PLUS / DOUBLEBOX PLUS DLV 115	EN 12050 - 2

sbox-dboxplus_EN-en_a_sc

MAXIBOX PLUS Series

Suitable for delivering gray water and wastewater to main sewer lines located at a higher level, or where gravity drainage is not possible.

Specifications

The standard tank is equipped with the following components, already assembled:
- polyethylene basin with a capacity of 1200 or 1900 litres.
- Threaded cover.
- 2 1/2" or 2" delivery pipes.
- 2 DN65 or DN50 sliding device systems.
- 2 ball check valves.
- Float switches bracket.

The supply includes also:
- Cable glands for power supply cables and floats.
- 1 rubber seal.

DN160 for inlet connection.

The standard tank doesn't include the pumps, so it must be completed with:
- 2 submersible pumps DOMO, DOMOGRI, DL, GLS 50/65, GLV 50/65, DLG that have to be ordered separately.

Selecting the right pump:
- The pumps with Vortex, Self-cleaning or Grinder impellers are suitable for clean water, effluent and sewage handling that contain suspended solids and fiber materials.
- The pumps with single or twin channel impellers are suitable for clean water, effluent and sewage handling that contain suspended solids but not fibres.

Maxibox Plus must be installed buried outside the building according to the indications in the installation and operating instructions manual.

Ecological solution:
- tank made of 100% recyclable polyethylene.
- watertight anti-pollution tank, according to the EN 12050-1 European standard.

Easy maintenance and repair thanks to the sliding device systems.



Accessories

Available accessories:

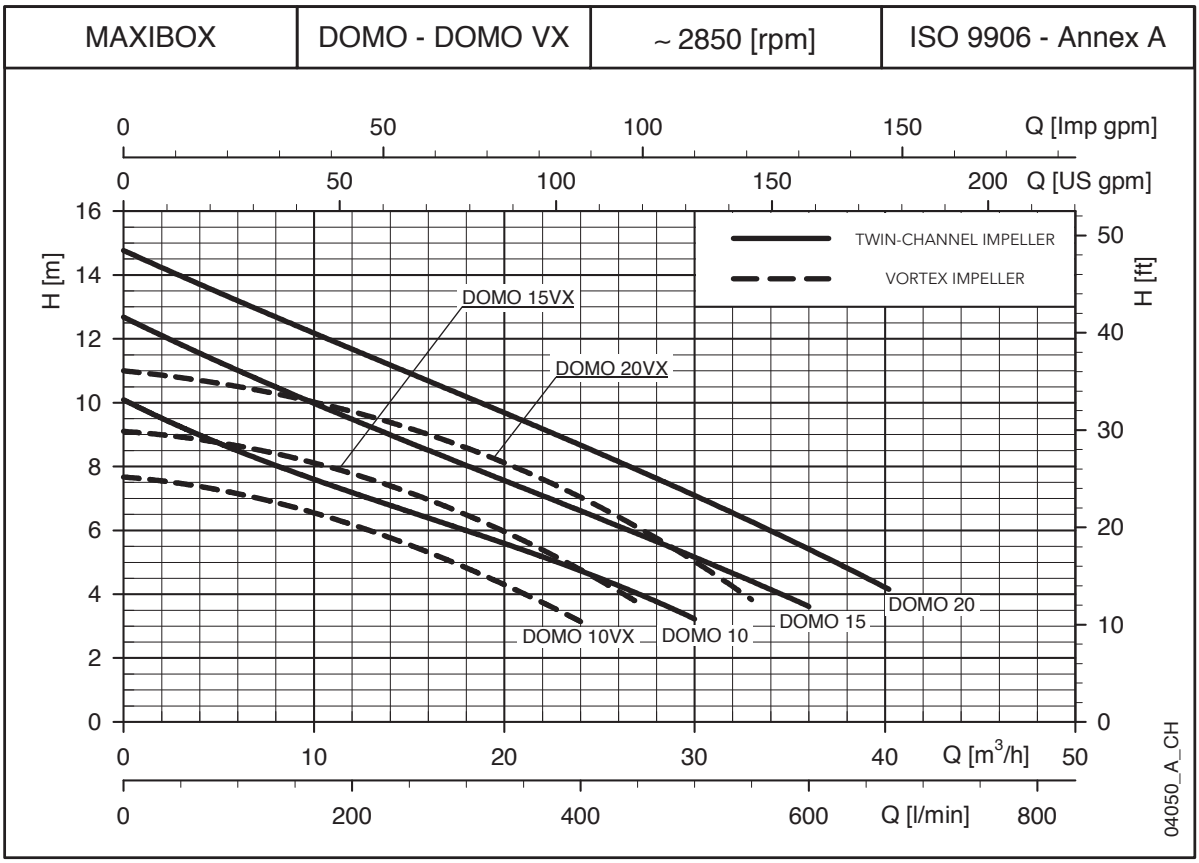
- Cover clamping system
- Float switches
- Control panels
- Collar extension h 350 mm
- Chains
- Shackles

For a complete list of technical information, consult www.lowara.com

MAXIBOX PLUS	DN	kW	Q max (l/min)	H max (m)	Impeller type	Single-phase pumps in version with / without pre-assembled float switch	Maxibox Plus		
							Maxibox Plus 13 - 50	Maxibox Plus 20 - 50	Maxibox Plus 20 - 65
DOMO 10(T)	50	0,75	500	10,1	TWIN CHANNEL	X	X	X	
DOMO 10VX(T)	50	0,75	400	7,7	VORTEX	X	X	X	
DOMO 15(T)	50	1,1	600	12,7	TWIN CHANNEL	X	X	X	
DOMO 15VX(T)	50	1,1	450	9,1	VORTEX	X	X	X	
DOMO 20T	50	1,5	670	14,8	TWIN CHANNEL		X	X	
DOMO 20VXT	50	1,5	550	11	VORTEX		X	X	
DOMO GRI 11(T)	50	1,1	110	25	GRINDER	X	X	X	
DLF(M) 80	50	0,6	350	7,6	SINGLE CHANNEL	X	X	X	
DLF(M) 90	50	0,6	450	9,7	SINGLE CHANNEL	X	X	X	
MINI VORTEX (M)	50	0,6	300	7,2	VORTEX	X	X	X	
DLF 105	50	1,1	500	14,1	SINGLE CHANNEL		X	X	
DL(M) 109	50	1,1	600	18,3	SINGLE CHANNEL	X	X	X	
DLV(M) 100	50	1,1	500	10,6	VORTEX	X	X	X	
DLF VORTEX	50	1,1	500	8,4	VORTEX		X	X	
DL 125	50	1,5	700	21,9	SINGLE CHANNEL		X	X	
DLV 115	50	1,5	600	13,1	VORTEX		X	X	
GLS 50-15-251-P	50	1,5	900	15,8	SINGLE CHANNEL		X	X	
GLS 50-16-253-P	50	1,6	900	16	SINGLE CHANNEL		X	X	
GLS 50-20-253-P	50	2	900	19	SINGLE CHANNEL		X	X	
GLS 50-24-253-P	50	2,4	900	23,8	SINGLE CHANNEL		X	X	
GLS 65-15-251	65	1,5	900	15	SINGLE CHANNEL				X
GLS 65-16-253	65	1,6	900	15,1	SINGLE CHANNEL				X
GLS 65-20-253	65	2	900	17,4	SINGLE CHANNEL				X
GLS 65-24-253	65	2,4	900	20,9	SINGLE CHANNEL				X
GLS 65-32-253	65	3,2	1500	25	SELF-CLEANING				X
GLS 65-42-253	65	4,2	1500	29,8	SELF-CLEANING				X
GLV 50-12-251-P	50	1,2	480	10,3	VORTEX		X	X	
GLV 50-15-251-P	50	1,5	480	13,4	VORTEX		X	X	
GLV 50-16-253-P	50	1,6	480	10,4	VORTEX		X	X	
GLV 50-20-253-P	50	2	480	13,6	VORTEX		X	X	
GLV 50-24-253-P	50	2,4	600	17,1	VORTEX		X	X	
GLV 65-15-251	65	1,5	600	9	VORTEX				X
GLV 65-16-253	65	1,6	600	9,1	VORTEX				X
GLV 65-20-253	65	2	750	11,7	VORTEX				X
GLV 65-24-253	65	2,4	900	14,6	VORTEX				X
GLV 65-32-253	65	3,2	900	16,9	VORTEX				X
GLV 65-42-253	65	4,2	1200	20,3	VORTEX				X

maxibox_modelli-en_b_sc

MAXIBOX PLUS SERIES DOMO-DOMO VX
Operating characteristics at 50 Hz



Hydraulic performance table

DOMO	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	50	100	150	200	250	300	320	400	500	600	670
				m³ h	0	3	6	9	12	15	18	19,2	24	30	36	40,2
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)												
	DOMO 10(T)	0,75	1	10,1	9,2	8,5	7,8	7,2	6,6	6,0	5,8	4,7	3,2			
	DOMO 15(T)	1,1	1,5	12,7	11,8	11,0	10,2	9,5	8,8	8,0	7,8	6,6	5,2	3,6		
	DOMO 20T	1,5	2	14,8	14,0	13,2	12,4	11,7	10,9	10,2	9,9	8,7	7,1	5,4	4,2	

DOMO VX	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	80	100	150	175	200	225	260	300	400	450	550
				m³ h	0	4,8	6	9	10,5	12	13,5	15,6	18	24	27	33
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)												
	DOMO 10VX(T)	0,75	1	7,7	7,3	7,1	6,7	6,5	6,2	5,9	5,4	4,8	3,1			
	DOMO 15VX(T)	1,1	1,5	9,1	8,8	8,6	8,3	8,0	7,8	7,5	7,1	6,5	4,8	3,7		
	DOMO 20VXT	1,5	2	11,0	10,6	10,5	10,2	9,9	9,7	9,5	9,1	8,6	7,0	6,1	3,8	

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

maxibox_domo-domovx-2p50_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO 10	1,14	5,84	22
DOMO 15	1,58	7,02	30
-	-	-	-
DOMO 10VX	1,15	5,88	22
DOMO 15VX	1,36	6,11	30
-	-	-	-

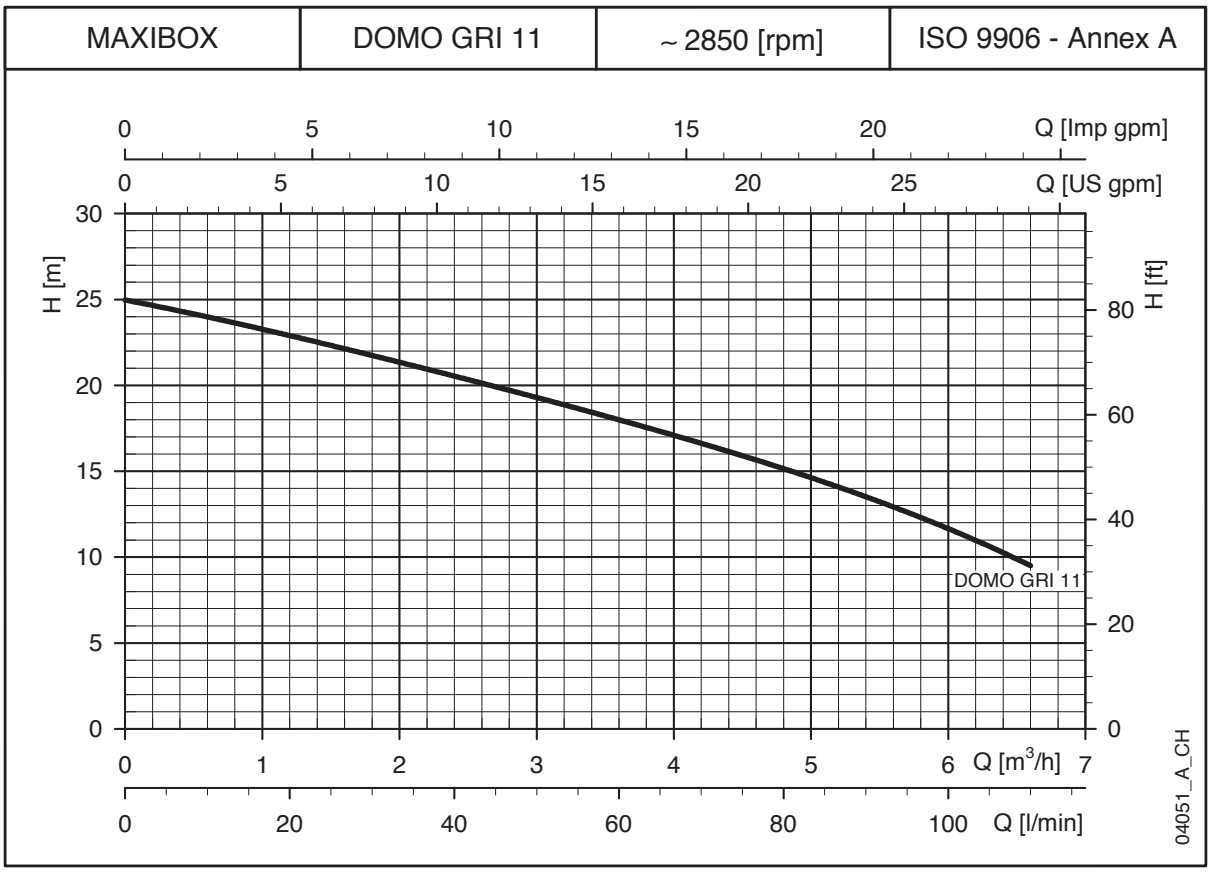
PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DOMO 10T	1,09	4,09	2,36
DOMO 15T	1,49	4,73	2,73
DOMO 20T	1,96	6,6	3,81
DOMO 10VXT	1,1	4,09	2,36
DOMO 15VXT	1,26	4,31	2,49
DOMO 20VXT	1,74	6,22	3,59

*Maximum values within operating range.

maxiboxplus_domo-domovx-2p50_a_te

MAXIBOX PLUS SERIES DOMO GRI
Operating characteristics at 50 HZ

MAXIBOX	DOMO GRI 11	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

DOMO GRI	PUMP TYPE	RATED POWER		Q = DELIVERY											
				l/min	0	15	30	40	50	60	70	80	90	100	110
				m³/h	0	0,9	1,8	2,4	3	3,6	4,2	4,8	5,4	6	6,6
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER											
	DOMO GRI 11	1,1	1,5	25,0		23,5	21,7	20,5	19,3	18,0	16,6	15,2	13,5	11,7	9,5
	DOMO GRI 11T														

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

maxibox_domo-gri-2p50_a_th

Electrical data

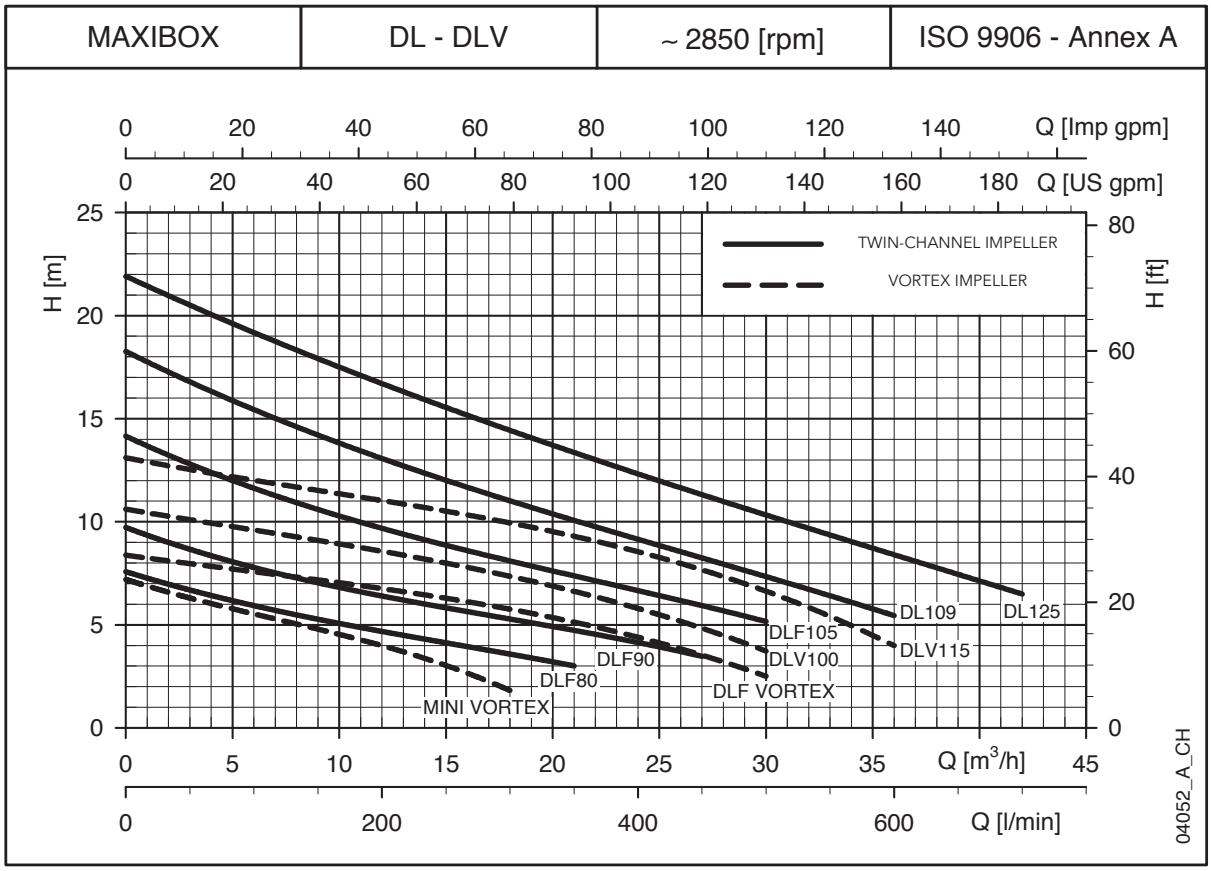
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR μF / 450 V
DOMO GRI 11	1,5	6,84	30

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415 V A
DOMO GRI 11T	1,39	4,55	2,63

*Maximum values within operating range.

maxibox_domo-gri-2p50_a_te

MAXIBOX PLUS SERIES DL-DLV
Operating characteristics at 50 Hz



Hydraulic performance table

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	100	150	200	250	300	350	400	450	500	600	700
				m³ h	0	6	9	12	15	18	21	24	27	30	36	42
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DL	DLF(M) 80	0,6	0,8	7,6	5,9	5,3	4,7	4,1	3,6	3,0						
DL	DLF(M) 90	0,6	0,8	9,7	7,8	7,0	6,4	5,8	5,3	4,7	4,1	3,5				
DL	DLF 105	1,1	1,5	14,1	11,6	10,6	9,7	8,9	8,1	7,4	6,7	5,9	5,2			
DL	DL(M) 109	1,1	1,5	18,3	15,4	14,2	13,1	12,0	11,0	10,1	9,2	8,2	7,3	5,4		
DL	DL 125	1,5	2	21,9	19,2	17,9	16,7	15,5	14,4	13,4	12,3	11,3	10,3	8,4	6,5	

	PUMP TYPE	RATED POWER		Q = DELIVERY												
				l/min	0	50	100	150	200	250	300	350	400	450	500	600
				m³ h	0	3	6	9	12	15	18	21	24	27	30	36
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
DLV	MINI VORTEX(M)	0,6	0,8	7,2	6,3	5,5	4,8	4,0	3,0	1,8						
DLV	DLF VORTEX	1,1	1,5	8,4	8,0	7,6	7,2	6,8	6,3	5,8	5,1	4,4	3,5	2,5		
DLV	DLV(M) 100	1,1	1,5	10,6	10,1	9,6	9,1	8,6	8,0	7,4	6,6	5,8	4,8	3,7		
DLV	DLV 115	1,5	2	13,1	12,5	12,0	11,5	11,0	10,5	9,9	9,3	8,5	7,7	6,6	4,0	

These performances (referred to the single pump) are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

maxibox_dl-dlv-2p50_a_th

Electrical data

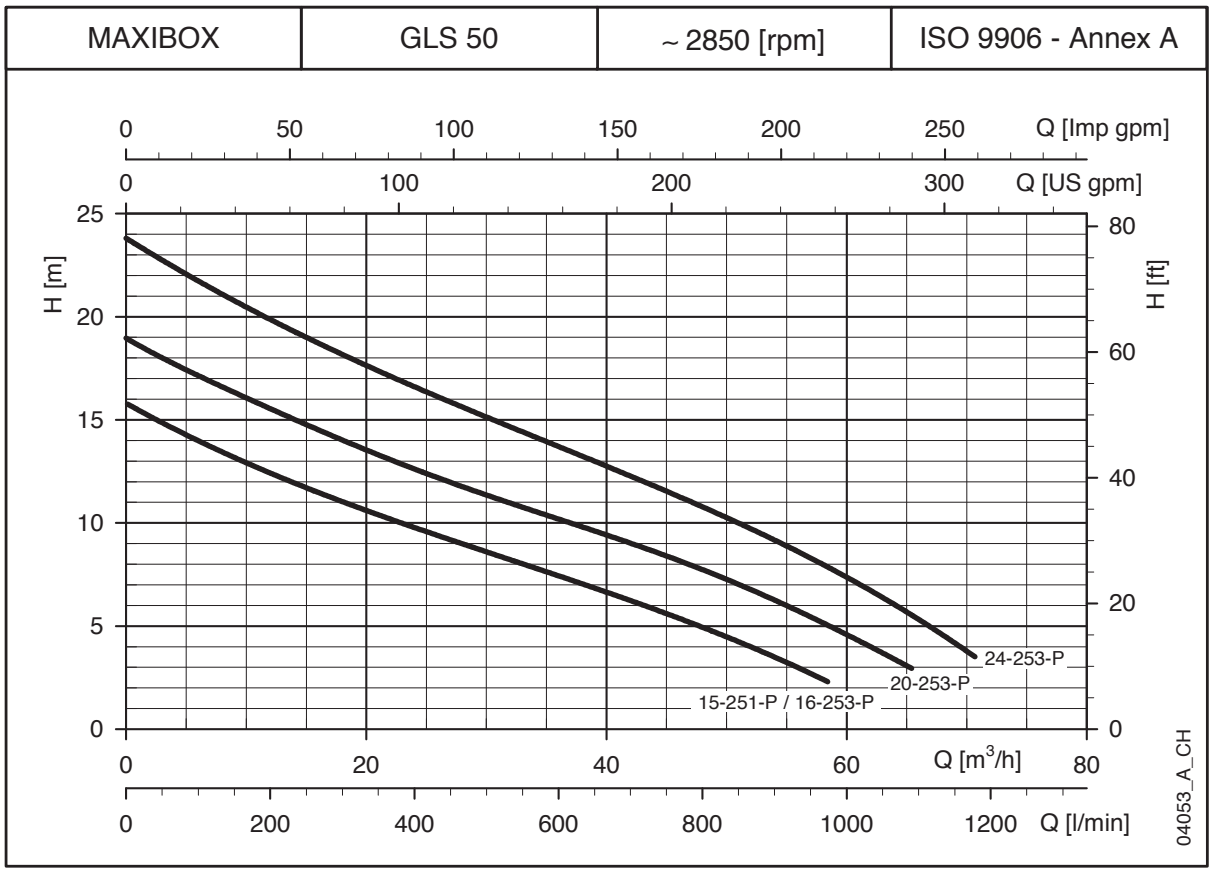
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	CAPACITOR F / 450 V
DLFM 80	0,79	3,91	25
DLFM 90	0,89	4,27	25
-	-	-	-
DLM109	1,55	6,87	35
-	-	-	-
MINI VORTEX M	1,05	4,82	25
-	-	-	-
DLVM100	1,64	7,3	35
-	-	-	-

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 220-240 V A	ABSORBED CURRENT* 380-415V A
DLF 80	0,80	-	2,09
DLF 90	0,92	3,81	2,20
DLF 105	1,43	4,66	2,69
DL 109	1,54	5,44	3,14
DL 125	2,14	6,58	3,80
MINI VORTEX	1,10	-	2,36
DLF VORTEX	1,66	5,11	2,95
DLV 100	1,65	5,63	3,25
DLV 115	2,25	6,81	3,93

*Maximum values within operating range.

maxibox_dl-dlv-2p50_a_te

MAXIBOX PLUS SERIES GLS 50
Operating characteristics at 50 Hz



Hydraulic performance table

	PUMP TYPE	RATED POWER	Q = DELIVERY								
			l/s	0	2	4	6	8	10	15	20	25
			m³/h	0	7,2	14,4	21,6	28,8	36	54	72	90
GLS		kW	H = TOTAL HEAD METRES COLUMN OF WATER									
	GLS 50-15-251-P	1,5	15,8	13,7	11,8	10,3	8,8	7,4	3,5		
	GLS 50-16-253-P	1,6	16,0	13,8	12,0	10,5	9,1	7,7	3,8		
	GLS 50-20-253-P	2	19,0	16,8	14,9	13,2	11,6	10,2	6,3		
	GLS 50-24-253-P	2,4	23,8	21,3	19,2	17,2	15,4	13,7	9,2		

These performances (referred to the single pump) are valid for liquids with density ρ = 1.0 Kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

maxibox_gls50_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER*	ABSORBED CURRENT* 230 V	CAPACITOR	CAPACITOR
	kW	A	µF / V	µF / V
GLS 50-15-251-P	2	8,4	35 / 400	100 / 330
-	-	-	-	-
-	-	-	-	-

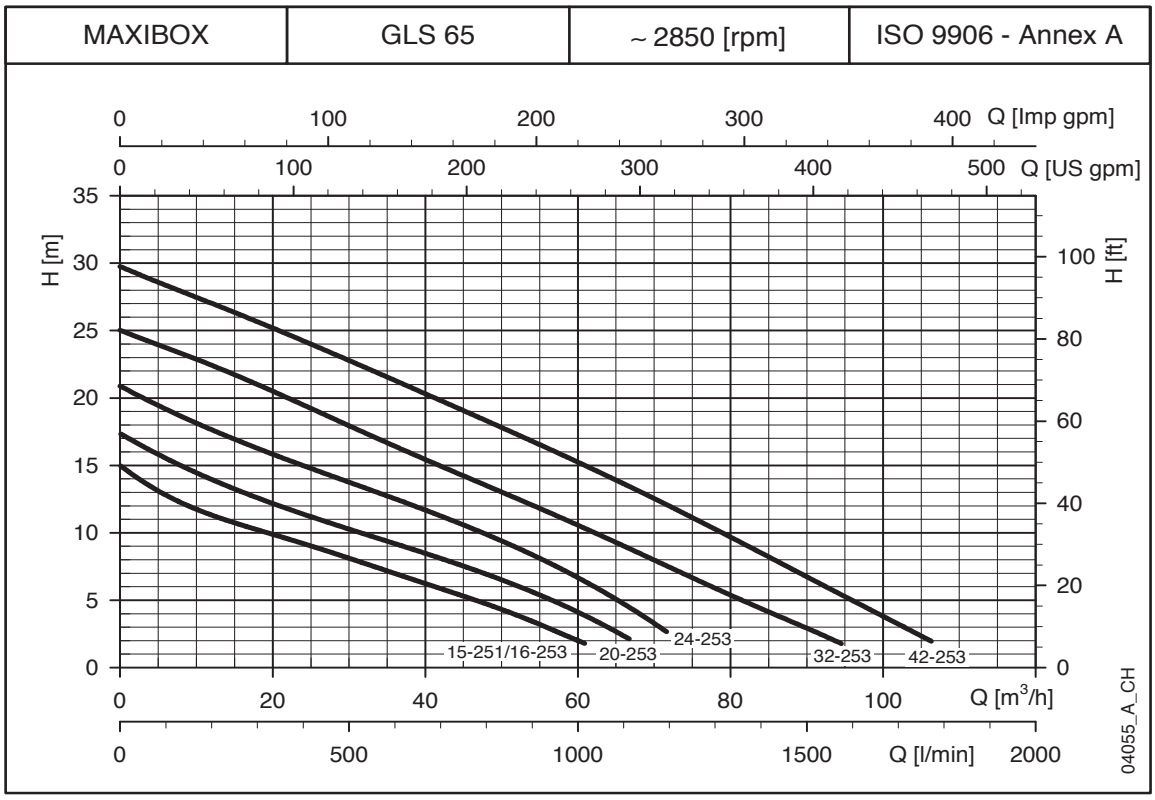
PUMP TYPE THREE-PHASE	ABSORBED POWER*	ABSORBED CURRENT* 400 V
	kW	A
GLS 50-16-253-P	1,9	3,6
GLS 50-20-253-P	2,4	4,3
GLS 50-24-253-P	3,2	5,1

*Maximum values within operating range.

maxibox_gls50_a_te

MAXIBOX PLUS SERIES GLS 65
Operating characteristics at 50 Hz

MAXIBOX	GLS 65	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

	PUMP TYPE	RATED POWER	Q = DELIVERY								
			l/s 0	2	4	6	8	10	15	20	25
			m^3/h 0	7,2	14,4	21,6	28,8	36	54	72	90
		kW	H = TOTAL HEAD METRES COLUMN OF WATER								
GLS	GLS 65-15-251	1,5	15,0	12,4	10,9	9,6	8,3	7,0	3,4		
	GLS 65-16-253	1,6	15,1	12,7	11,0	9,7	8,5	7,3	3,6		
	GLS 65-20-253	2	17,4	15,2	13,4	11,9	10,5	9,2	5,6		
	GLS 65-24-253	2,4	20,9	18,9	17,1	15,5	14,0	12,5	8,4		
	GLS 65-32-253	3,2	25,0	23,5	21,9	20,1	18,3	16,4	12,1	7,5	2,9
	GLS 65-42-253	4,2	29,8	28,1	26,5	24,8	23,1	21,3	16,8	12,0	6,7

These performances (referred to the single pump) are valid for liquids density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

maxibox_gls65_a_th

Electrical data

PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 230 V A	CAPACITOR μF / V	CAPACITOR μF / V
GLS 65-15-251	2	8,4	35 / 400	100 / 330
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

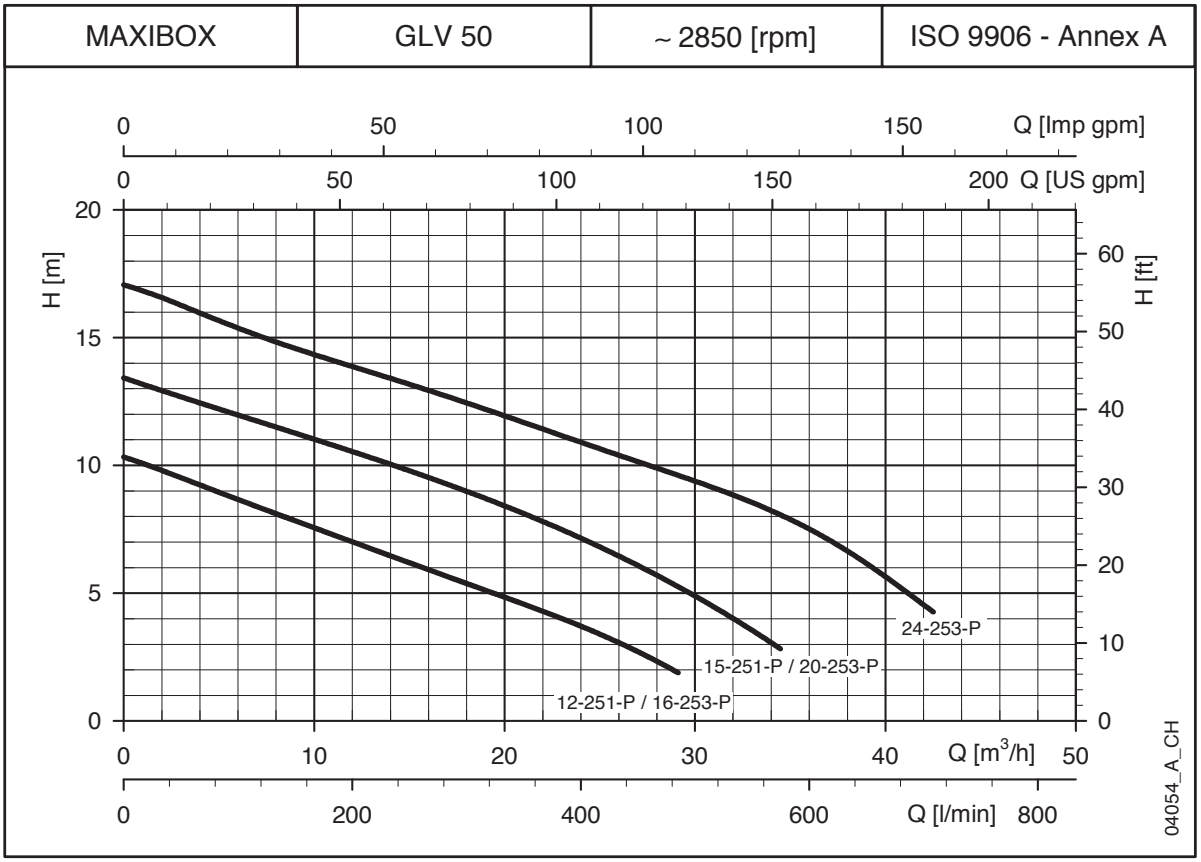
PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 400 V A
GLS 65-16-253	1,9	3,6
GLS 65-20-253	2,4	4,3
GLS 65-24-253	3,2	5,1
GLS 65-32-253	3,9	6,1
GLS 65-42-253	5,3	8,2

*Maximum values within operating range.

maxibox_gls65_a_te

MAXIBOX PLUS SERIES GLV 50
Operating characteristics at 50 Hz

MAXIBOX	GLV 50	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

	PUMP TYPE	RATED POWER	Q = DELIVERY								
			l/s 0	2	4	6	8	10	12,5	15	20
			m³/h 0	7,2	14,4	21,6	28,8	36	45	54	72
		kW	H = TOTAL HEAD METRES COLUMN OF WATER								
GLV	GLV 50-12-251-P	1,2	10,3	8,3	6,4	4,4	2,0				
	GLV 50-15-251-P	1,5	13,4	11,7	9,9	7,9	5,4				
	GLV 50-16-253-P	1,6	10,4	8,4	6,5	4,5	2,2				
	GLV 50-20-253-P	2	13,6	11,8	10,2	8,2	5,6				
	GLV 50-24-253-P	2,4	17,1	15,0	13,3	11,5	9,7	7,5			

These performances (referred to the single pump) are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec. maxibox_glv50_a_th

Electrical data

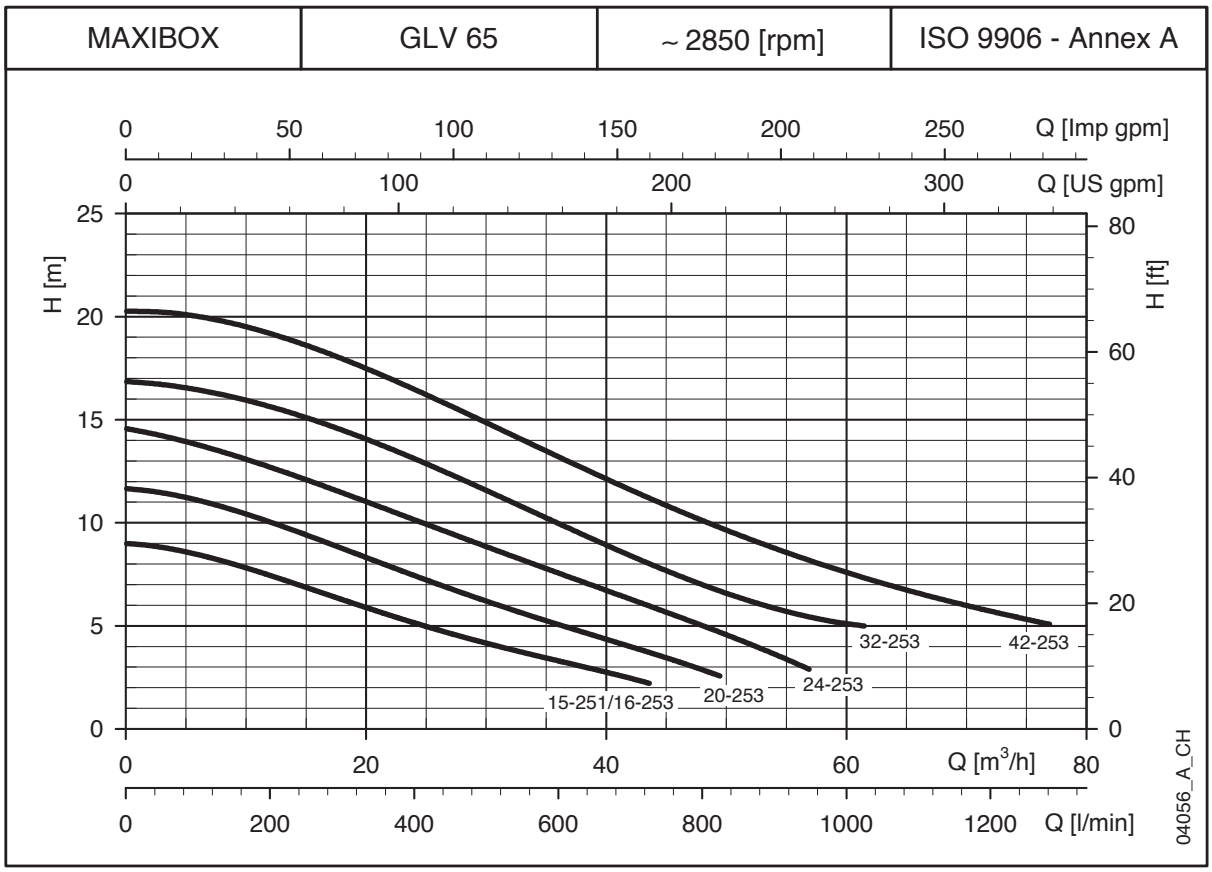
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 230 V A	CAPACITOR μF / V	CAPACITOR μF / V
GLV 50-12-251-P	1,5	6,7	35 / 400	100 / 330
GLV 50-15-251-P	2	8,4	35 / 400	100 / 330
-	-	-	-	-
-	-	-	-	-

PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 400 V A
-	-	-
GLV 50-16-253-P	1,9	3,6
GLV 50-20-253-P	2,6	4,3
GLV 50-24-253-P	3,2	5,1

*Maximum values within operating range. maxibox_glv50_a_te

MAXIBOX PLUS SERIES GLV 65
Operating characteristics at 50 Hz

MAXIBOX	GLV 65	~ 2850 [rpm]	ISO 9906 - Annex A



Hydraulic performance table

	PUMP TYPE	RATED POWER	Q = DELIVERY								
			l/s 0	2	4	6	8	10	12,5	15	20
			m³/h 0	7,2	14,4	21,6	28,8	36	45	54	72
		kW	H = TOTAL HEAD METRES COLUMN OF WATER								
GLV	GLV 65-15-251	1,5	9,0	8,3	7,0	5,6	4,3	3,3			
	GLV 65-16-253	1,6	9,1	8,4	7,1	5,7	4,5	3,4			
	GLV 65-20-253	2	11,7	10,9	9,5	8,0	6,4	5,1	3,5		
	GLV 65-24-253	2,4	14,6	13,6	12,2	10,7	9,1	7,6	5,7	3,6	
	GLV 65-32-253	3,2	16,9	16,3	15,2	13,7	11,9	10,0	7,7	5,9	
	GLV 65-42-253	4,2	20,3	19,9	18,7	17,1	15,2	13,2	10,8	8,8	5,7

These performances /referred to the single pump) are valid for liquids with density ρ = 1.0 Kg/dm^3 and kinematic viscosity ν = 1 mm^2/sec.

maxibox_glv65_a_th

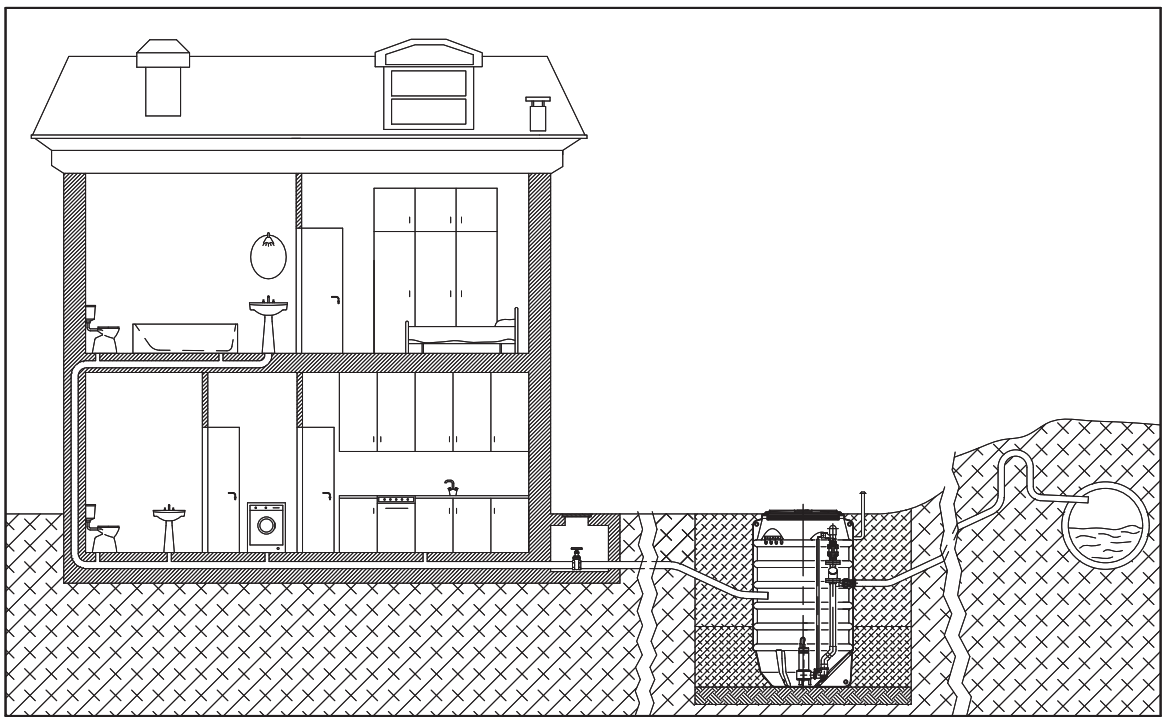
Electrical data

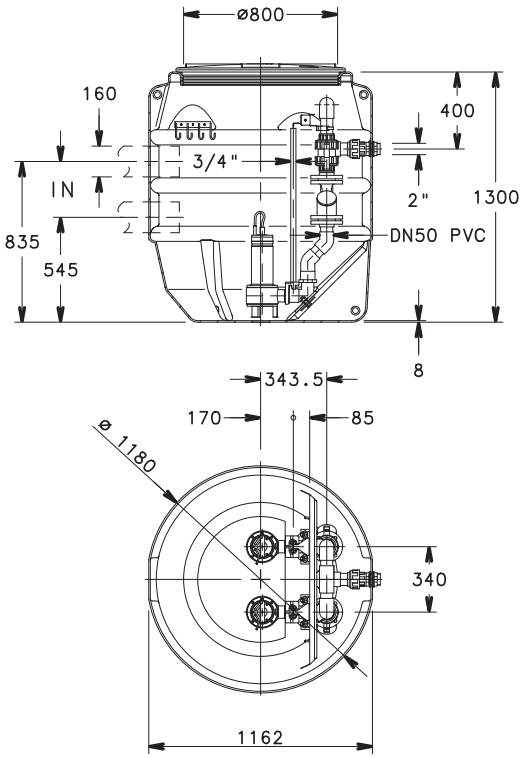
PUMP TYPE SINGLE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 230 V A	CAPACITOR µF / V	CAPACITOR µF / V
GLV 65-15-251	2	8,4	35 / 400	100 / 330
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

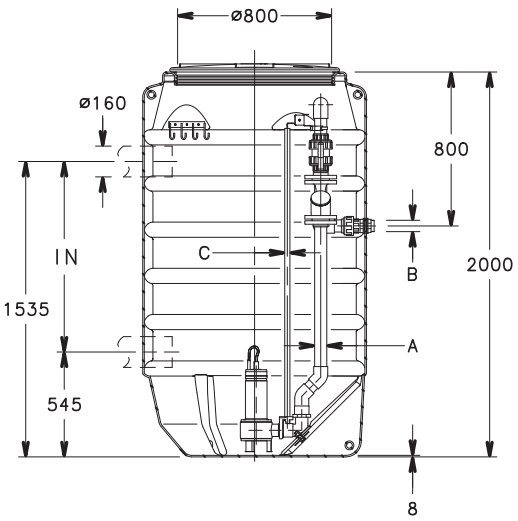
PUMP TYPE THREE-PHASE	ABSORBED POWER* kW	ABSORBED CURRENT* 400 V A
GLV 65-16-253	2	3,6
GLV 65-20-253	2,5	4,3
GLV 65-24-253	3,2	5,1
GLV 65-32-253	3,8	6,1
GLV 65-42-253	5,3	8,2

*Maximum values within operating range.

maxibox_glv65_a_te







A	B	C
DN50	2"	3/4"
DN65	2 1/2"	2"

04050_B_DD

Borehole Pumps 4

SCUBA SERIES
Close-coupled submersible pumps for 5" wells 361

GS 4" SERIES
Submersible pumps for 4" wells 365

Z-ZN 6" SERIES
Submersible pumps for 6" wells 381

Z-ZR 8" SERIES
Submersible pumps for 8" wells 406

Z-ZR 10" - 12" SERIES
Submersible pumps for 10"-12" wells 418

4OS/C SERIES
Submersible motors for 4" wells 437

L4C SERIES
Submersible motors for 4" wells 440

L6C SERIES
Submersible motors for 6" wells 443

L6W/A SERIES
Submersible motors for 6" wells 446

L8W SERIES
Submersible motors for 8" wells 450

L10W SERIES
Submersible motors for 10" wells 452

L12W SERIES
Submersible motors for 12" wells 454

SCUBA Series

Multi-stage submersible centrifugal pumps for clean water, with the majority of components in AISI 304 stainless steel. Double mechanical seal system with oil chamber.
The liquid end is located underneath the electric motor which is cooled by the pumped liquid.
The pump is directly inserted in the tank or well to avoid suctions problems and noise.
Can also operate in a horizontal position.

Specifications

Delivery: up to 7.5 m^3/h
Head: up to 80 metres
Power supply: three-phase and single-phase 50 and 60 Hz
Single-phase motor: 220-240 V 50Hz, built-in automatic reset overload protection. Internal capacitor supplied standard.
Three-phase motor: 380-415 V; overload protection to be provided by user and installed in the control box (see control box section)
Power: 0.55 kW to 1.1 kW
Maximum immersion depth: 20 metres
Water temperature: 0°C to +40°C
Passage of solids: up to 2.5 mm
Maximum permissible quantity of suspended sand: 25 g/m^3

Materials

Sleeve and head: Stainless steel
Upper bearing support: Stainless steel
Shaft extension: Stainless steel
Screws: Stainless steel
Impeller: Technopolymer
Diffuser: Stainless steel
Lower bearing support: Die-cast aluminium
Elastomers: NBR

Applications

Water supply from tanks, 6" wells, basins and watercourses

Pressure boosting

Irrigation

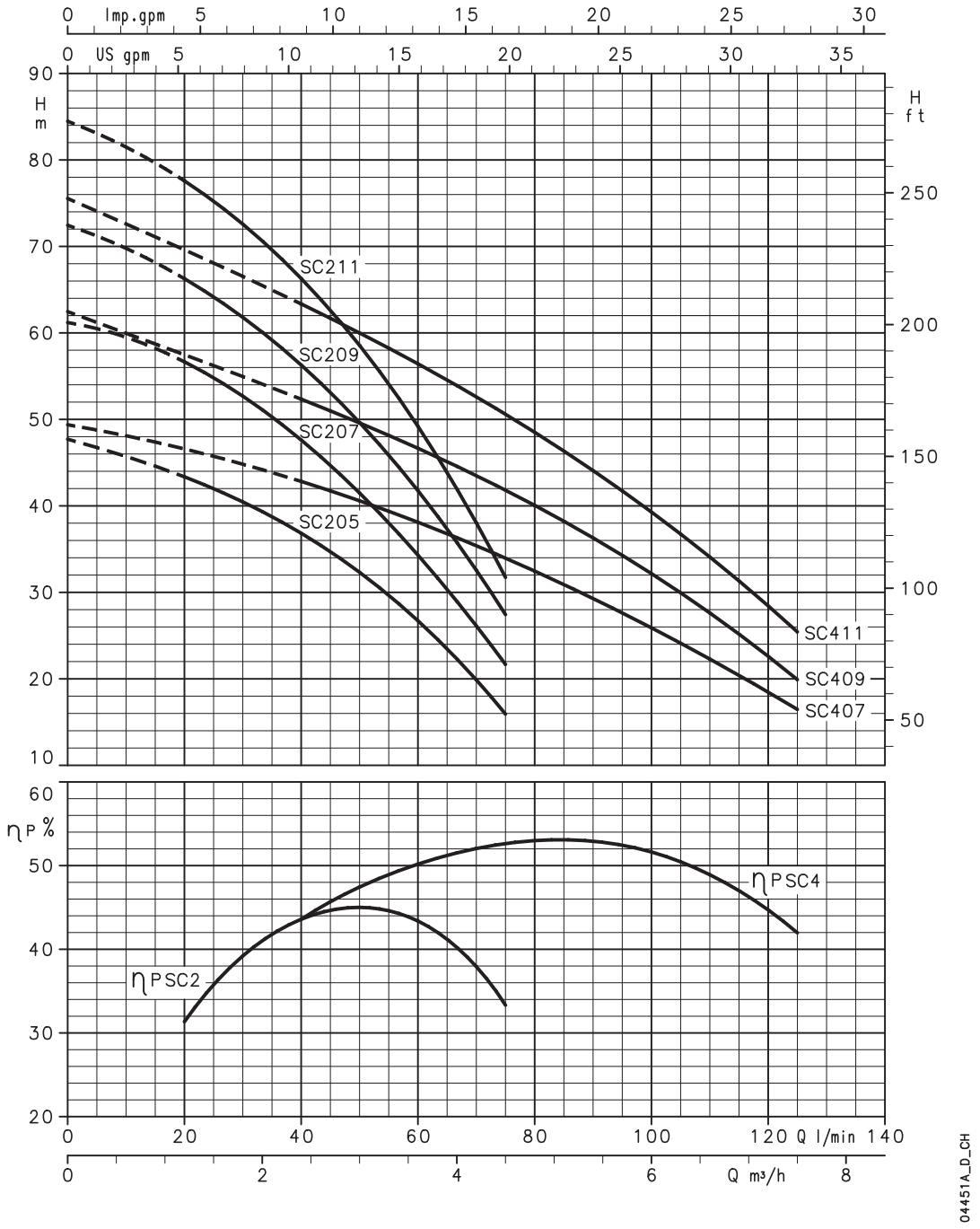
Rain water collection



For a complete list of technical information, consult www.lowara.com

SCUBA SERIES
Operating characteristics at 50 Hz

SC2 - SC4	~ 2850 rpm	ISO 9906-Annex A



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

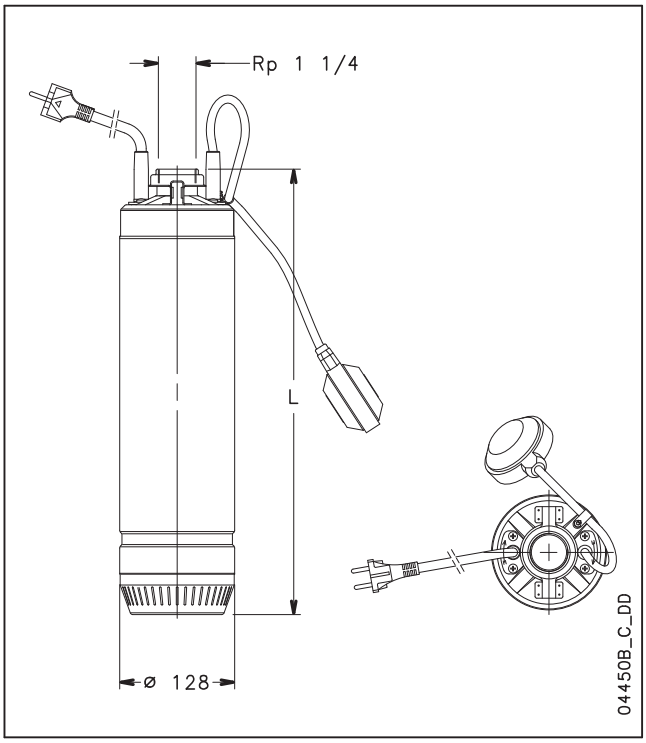
SCUBA SERIES
Dimensions and weights

PUMP TYPE		NUMBER OF STAGES	DIMENSIONS L	WEIGHT
SINGLE-PHASE	THREE-PHASE		mm	kg
SC205C	SC205T	4	526	13,5
SC207C	SC207T	5	566	15
SC209C	SC209T	6	591	16
SC211C	SC211T	7	636	18
SC407C	SC407T	4	541	14,5
SC409C	SC409T	5	566	15,5
SC411C	SC411T	6	611	17,5

scuba-sc2-sc4-2p50_c_td

PUMP TYPE	CROSS-SECTION	CABLE TYPE	LENGTH OF CABLE
SC205C	3G1	H07RN-F	
SC207C	3G1	H07RN-F	
SC209C	3G1,5	H07RN-F	
SC211C	3G1,5	H07RN-F	
SC407C	3G1	H07RN-F	
SC409C	3G1,5	H07RN-F	
SC411C	3G1,5	H07RN-F	20 m
SC205T	4G1	H07RN-F	
SC207T	4G1	H07RN-F	
SC209T	4G1	H07RN-F	
SC211T	4G1	H07RN-F	
SC407T	4G1	H07RN-F	
SC409T	4G1	H07RN-F	
SC411T	4G1	H07RN-F	

scuba-sc2-sc4-2p50_c_tc



Single-phase range available with pre-mounted float switch (SCUBA G). Versions with 10 metre cables available on request.

Hydraulic performance table at ~2850 rpm 50 Hz

PUMP TYPE	RATED POWER		Q = DELIVERY									
			l/min 0	20	30	40	50	60	75	80	100	125
			m^3/h 0	1,2	1,8	2,4	3	3,6	4,5	4,8	6	7,5
	kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)									
SC205C - SC205T	0,55	0,75	47,7	43,4	40,5	36,8	32,3	26,7	15,9			
SC207C - SC207T	0,75	1	61,2	56,7	52,7	47,6	41,5	34,3	21,7			
SC209C - SC209T	0,9	1,2	72,4	66,3	61,8	56,3	49,6	41,8	27,4			
SC211C - SC211T	1,1	1,5	84,5	77,6	72,6	66,3	58,6	49,2	31,7			
SC407C - SC407T	0,75	1	49,4			42,8	40,6	38,1	34,0	32,5	25,9	16,5
SC409C - SC409T	0,9	1,2	62,5			52,3	49,6	46,7	41,8	40,1	32,2	19,9
SC411C - SC411T	1,1	1,5	75,5			63,4	60,0	56,4	50,6	48,5	39,3	25,4

scuba-sc2-sc4-2p50_c_th

Electrical data

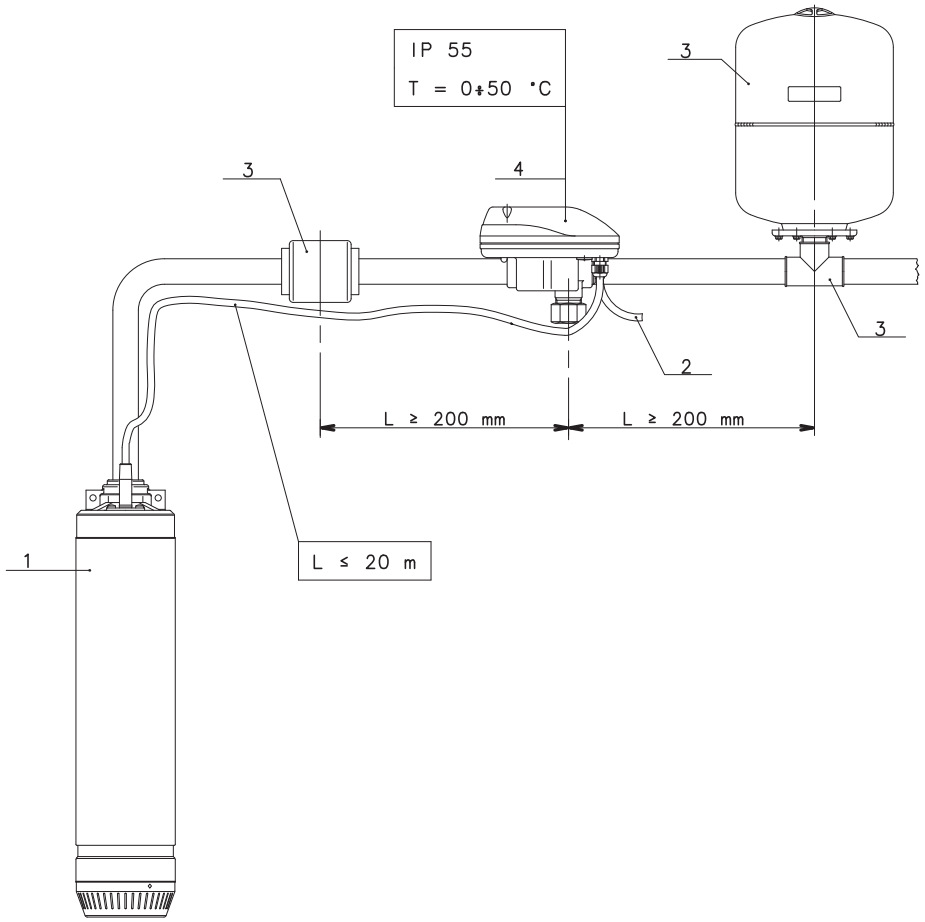
PUMP TYPE SINGLE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	CAPACITOR µF / 450 V
SC205C	0,93	4,37	16
SC207C	1,15	5,19	25
SC209C	1,32	5,88	25
SC211C	1,63	7,25	30
SC407C	1,18	5,28	25
SC409C	1,38	6,17	25
SC411C	1,76	7,85	30

PUMP TYPE THREE-PHASE	INPUT POWER* kW	INPUT CURRENT* 220-240 V A	INPUT CURRENT* 380-415 V A
SC205T	0,86	2,81	1,62
SC207T	1,09	4,12	2,38
SC209T	1,27	4,40	2,54
SC211T	1,45	4,68	2,70
SC407T	1,12	4,16	2,40
SC409T	1,33	4,50	2,60
SC411T	1,59	4,94	2,85

*Maximum value in specified range

scuba-sc2-sc4-2p50_c_te

INSTALLATION EXAMPLE OF A SUBMERSIBLE PUMP
Controlled by an inverter (hydrovar® Watercooled)



REF.	DESCRIPTION
1	Scuba/B electric pump
2	Power cable
3	HVW hydraulic kit
4	Hydrovar® Watercooled inverter

scuba-hvw-2p50_a_tp

04462_A_SC

GS 4" Series

Multi-stage centrifugal submersible pumps for clean water in 4" wells. High content of AISI 304 stainless steel. The floating impeller design ensures an excellent resistance to wear.

The upper and lower supports are made of precision-cast stainless steel ensuring resistance to corrosion, strength and rigid coupling to the motor.
The non-return valve is integrated in the head to support the weight of the column of water and protect against water hammer, thus safeguarding impellers and diffusers.
Can also operate in a horizontal position.

Specifications

Delivery: up to 21 m^3/h
Head: up to 340 metres
Power supply: three-phase and single-phase 50 and 60 Hz
Single-phase version: 220-240 V, 50Hz
Three-phase version: 380-415 V; overload protection to be provided by user and installed in the control box (see control box section)
Power: 0.25 kW to 7.5 kW
Maximum overall diameter of pump (cable cover included): 99 mm
Water temperature: 0°C to +35°C
Maximum permissible quantity of suspended sand: 150 g/m^3

Materials

Valve cap, valve seat: Stainless steel
Valve gasket: NBR
Valve stop ring: Stainless steel
Upper support: Technopolymer
Bush bearings: Polyurethane
Impeller, diffuser: Technopolymer
Diffuser case, shim, pump shaft, outer sleeve, spacer, filter, coupling, cable cover: Stainless Steel

Applications

Water supply

Pressure boosting

Irrigation

Rain water collection

Fire-fighting



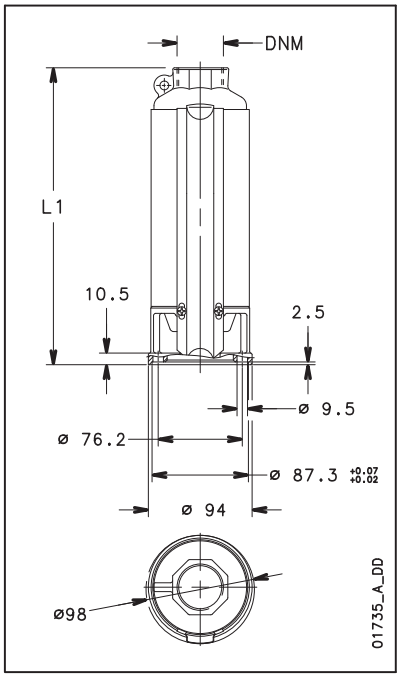
For a complete list of technical information, consult www.lowara.com

1GSL SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	N. OF STAGES	MOTOR POWER		Q = DELIVERY					
				l/min	0	8,3	10	15	20	22,5
				m^3/h	0	0,5	0,6	0,9	1,2	1,35
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER						
1GSL02(1)	8	0,37	0,5	53	46,6	45	37	27	20,6
1GSL03	12	0,37	0,5	79,4	69,9	67	55	40	30,9
1GSL05	18	0,55	0,75	119	105	100	83	60	46,3
1GSL07	24	0,75	1	159	140	133	110	80	61,7
1GSL11	35	1,1	1,5	232	204	194	160	116	90
1GSL15	49	1,5	2	324	285	272	224	163	126

(1) Maximum pump absorbed power: 0,25 kW - 0,33 HP.

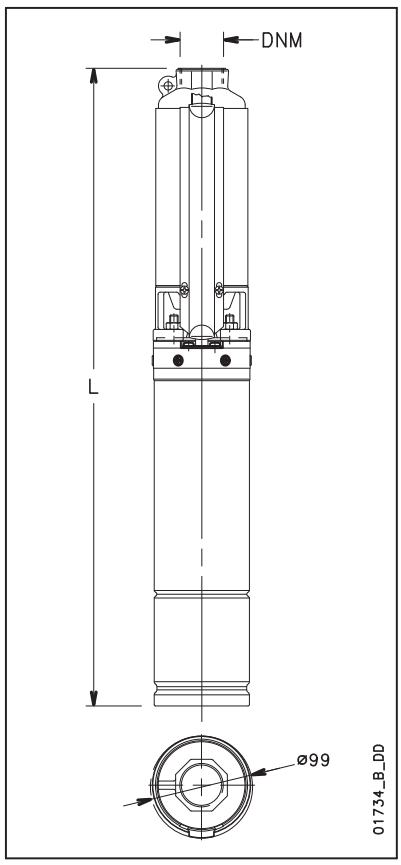
1gsl-2p50-en_c_th



1GSL..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		WEIGHT PUMP	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
1GSL02M-4OS	8	Rp 1 1/4	298	651	3,1	10,7
1GSL03M-4OS	12	Rp 1 1/4	369	722	3,9	11,5
1GSL05M-4OS	18	Rp 1 1/4	472	825	4,9	13,1
1GSL07M-4OS	24	Rp 1 1/4	578	956	5,8	15,1
1GSL11M-4OS	35	Rp 1 1/4	824	1237	8,7	19,9
1GSL15M-4OS	49	Rp 1 1/4	1068	1516	11,8	24,6
1GSL03T-4OS	12	Rp 1 1/4	369	701	3,9	11
1GSL05T-4OS	18	Rp 1 1/4	472	825	4,9	12,5
1GSL07T-4OS	24	Rp 1 1/4	578	931	5,8	14
1GSL11T-4OS	35	Rp 1 1/4	824	1202	8,7	18
1GSL15T-4OS	49	Rp 1 1/4	1068	1481	11,8	23,2

1gsl-4os-2p50_a_td



1GSL..L4C SERIES
Dimensions and weights

ELECTRIC PUMP TYPE	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
1GSL02M-L4C	8	Rp 1 1/4	298	532	3,1	10,3
1GSL03M-L4C	12	Rp 1 1/4	369	603	3,9	11,2
1GSL05M-L4C	18	Rp 1 1/4	472	736	4,9	12,7
1GSL07M-L4C	24	Rp 1 1/4	578	862	5,8	14,2
1GSL11M-L4C	35	Rp 1 1/4	824	1153	8,7	19,6
1GSL15M-L4C	49	Rp 1 1/4	1068	1459	11,8	24,5
1GSL03T-L4C	12	Rp 1 1/4	369	583	3,9	10,9
1GSL05T-L4C	18	Rp 1 1/4	472	706	4,9	12,1
1GSL07T-L4C	24	Rp 1 1/4	578	842	5,8	13,6
1GSL11T-L4C	35	Rp 1 1/4	824	1108	8,7	17,1
1GSL15T-L4C	49	Rp 1 1/4	1068	1414	11,8	23,8

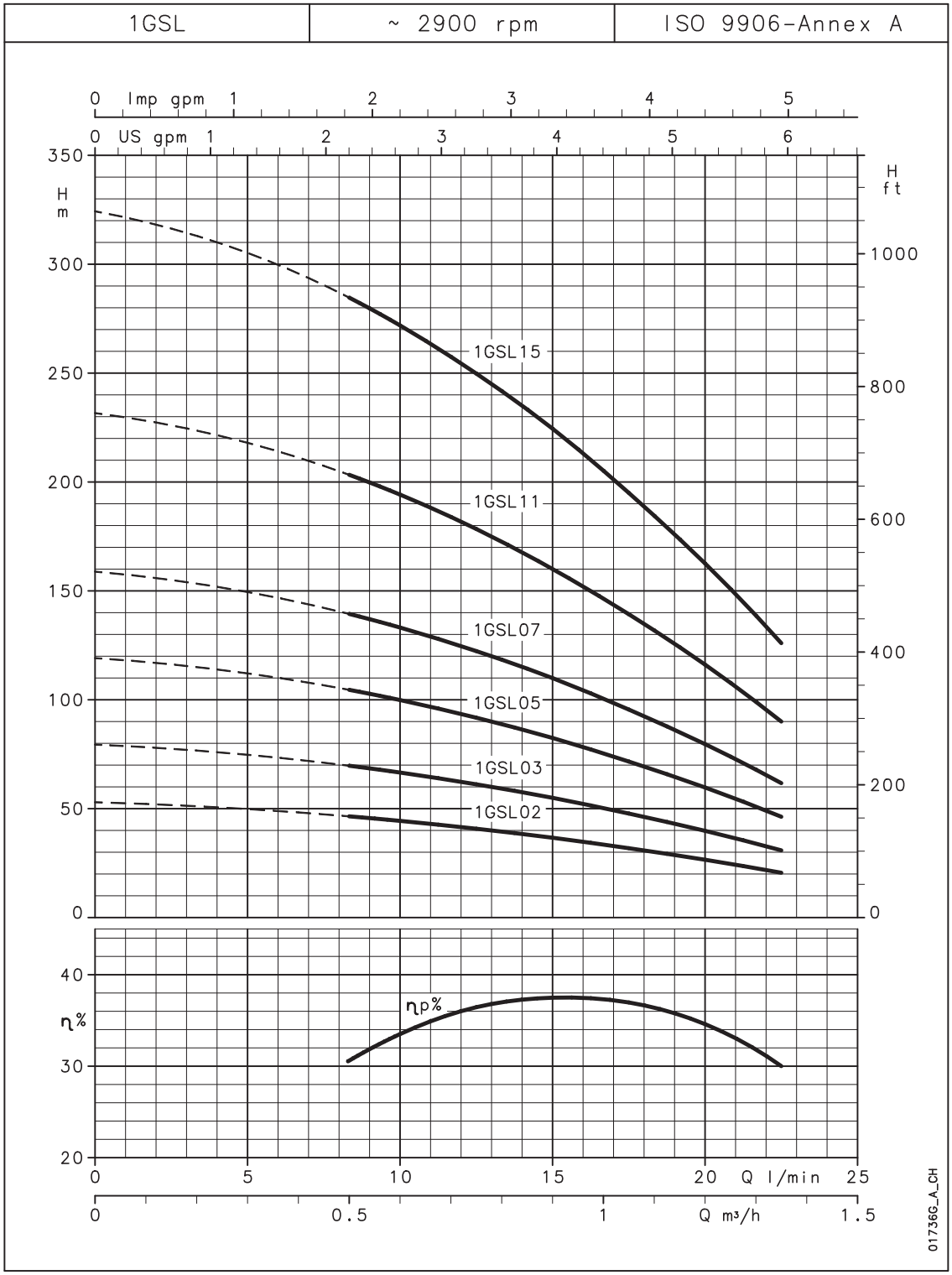
1gsl-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

1GSL SERIES
Operating characteristics at 50 Hz

1GSL	~ 2900 rpm	ISO 9906-Annex A



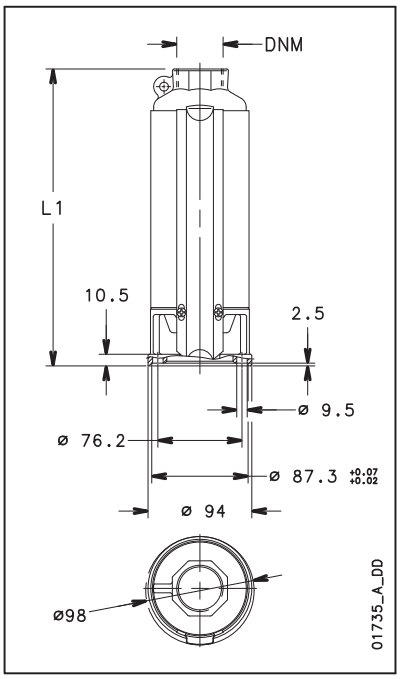
These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

2GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	N. OF STAGES	MOTOR POWER		Q = DELIVERY					
				l/min	0	20	25	30	40	50
				m^3/h	0	1,2	1,5	1,8	2,4	3
		kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER						
2GS02[(1)]	5	0,37	0,5	33	30	28	26	20	13
2GS03	7	0,37	0,5	47	42	40	36	29	19
2GS05	10	0,55	0,75	67	60	56	52	41	27
2GS07	14	0,75	1	93	83	79	73	57	37
2GS11	20	1,1	1,5	133	119	113	104	82	53
2GS15	28	1,5	2	187	167	158	146	115	74
2GS22	40	2,2	3	267	238	226	208	164	106
2GS30	52	3	4	347	309	294	271	213	138

(1) Maximum pump absorbed power: 0,25 kW - 0,33 HP.

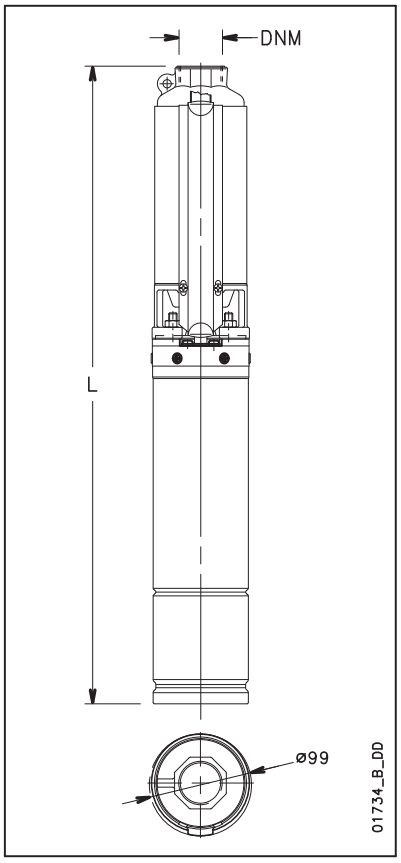
2gs-2p50-en_c_th



2GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
2GS02M-4OS	5	Rp 1 1/4	245	598	2,6	10,2
2GS03M-4OS	7	Rp 1 1/4	280	633	2,9	10,5
2GS05M-4OS	10	Rp 1 1/4	332	685	3,5	11,7
2GS07M-4OS	14	Rp 1 1/4	402	780	4,2	13,5
2GS11M-4OS	20	Rp 1 1/4	507	920	5,3	16,5
2GS15M-4OS	28	Rp 1 1/4	680	1128	7,1	19,9
2GS22M-4OS	40	Rp 1 1/4	914	1412	10,1	25,2
2GS03T-4OS	7	Rp 1 1/4	280	612	2,9	10
2GS05T-4OS	10	Rp 1 1/4	332	685	3,5	11,1
2GS07T-4OS	14	Rp 1 1/4	402	755	4,2	12,4
2GS11T-4OS	20	Rp 1 1/4	507	885	5,3	14,6
2GS15T-4OS	28	Rp 1 1/4	680	1093	7,1	18,5
2GS22T-4OS	40	Rp 1 1/4	914	1362	10,1	23
2GS30T-4OS	52	Rp 1 1/4	1120	1568	12,2	26,1

2gs-4os-2p50_a_td



2GS..L4C SERIES
Dimensions and weights

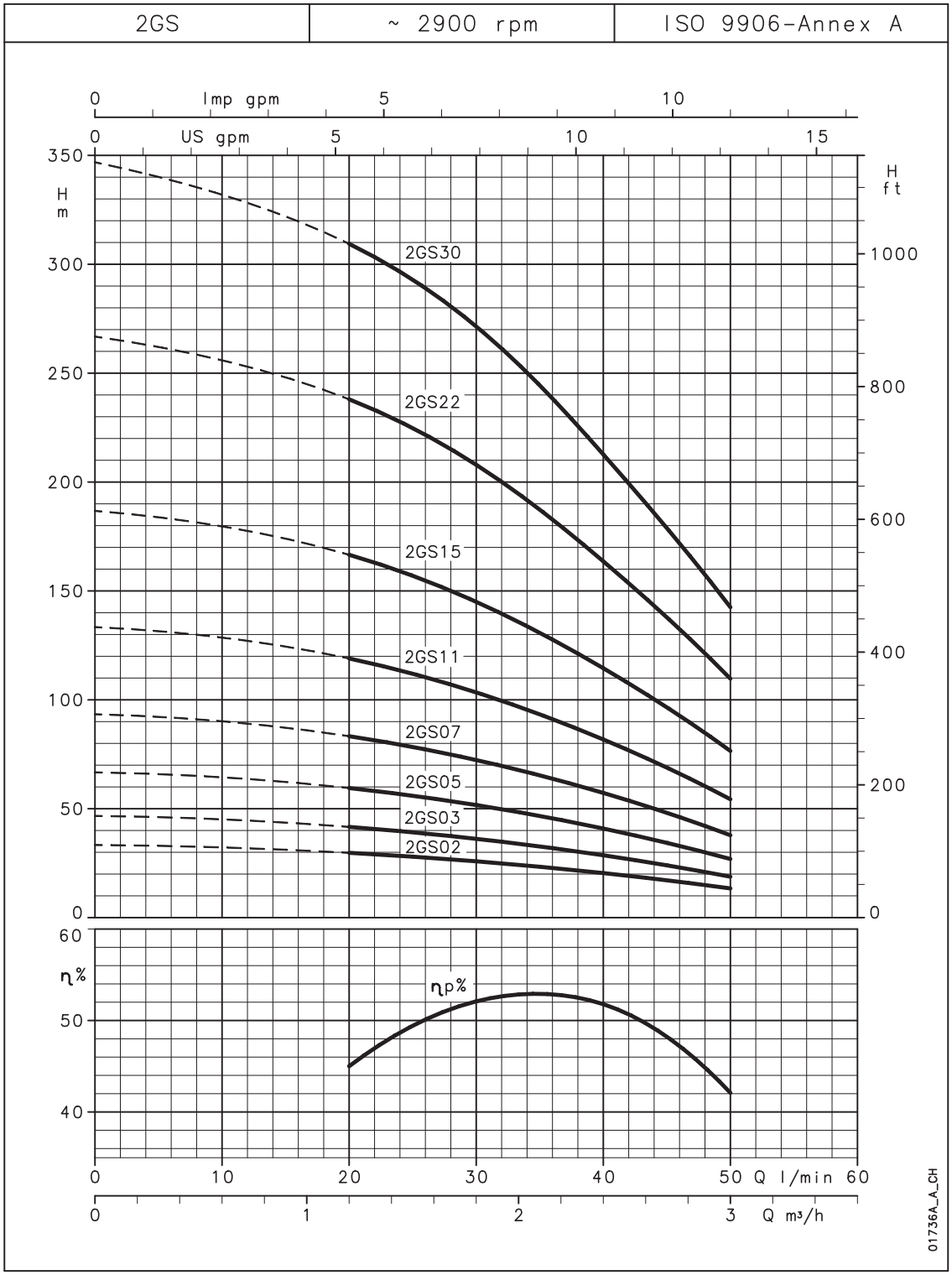
ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
2GS02M-L4C	5	Rp 1 1/4	245	479	2,6	9,8
2GS03M-L4C	7	Rp 1 1/4	280	514	2,9	10,1
2GS05M-L4C	10	Rp 1 1/4	332	596	3,5	11,3
2GS07M-L4C	14	Rp 1 1/4	402	686	4,2	12,6
2GS11M-L4C	20	Rp 1 1/4	507	836	5,3	16,2
2GS15M-L4C	28	Rp 1 1/4	680	1071	7,1	19,8
2GS22M-L4C	40	Rp 1 1/4	914	1325	10,1	24,3
2GS03T-L4C	7	Rp 1 1/4	280	494	2,9	9,9
2GS05T-L4C	10	Rp 1 1/4	332	566	3,5	10,7
2GS07T-L4C	14	Rp 1 1/4	402	666	4,2	12
2GS11T-L4C	20	Rp 1 1/4	507	791	5,3	13,7
2GS15T-L4C	28	Rp 1 1/4	680	1026	7,1	19,1
2GS22T-L4C	40	Rp 1 1/4	914	1305	10,1	22,9
2GS30T-L4C	52	Rp 1 1/4	1120	1662	12,2	32,8

2gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

2GS SERIES
Operating characteristics at 50 Hz

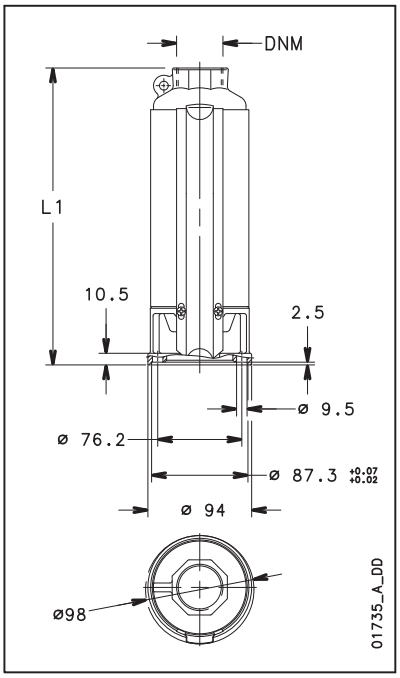


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

4GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	NUMBER OF STAGES	RATED POWER		Q = DELIVERY						
				l/min	0	30	40	60	80	90
				m^3/h	0	1,8	2,4	3,6	4,8	5,4
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)						
4GS03M	4	0,37	0,5	27	24	23	19	13	9
4GS05M	7	0,55	0,75	47	42	40	33	22	15
4GS07M	9	0,75	1	60	54	51	42	28	19
4GS11M	14	1,1	1,5	94	84	80	66	44	30
4GS15M	19	1,5	2	127	114	108	89	60	40
4GS22M	27	2,2	3	181	162	154	127	85	57
4GS30T	35	3	4	228	204	194	160	107	72
4GS40T	48	4	5,5	321	288	274	226	151	102

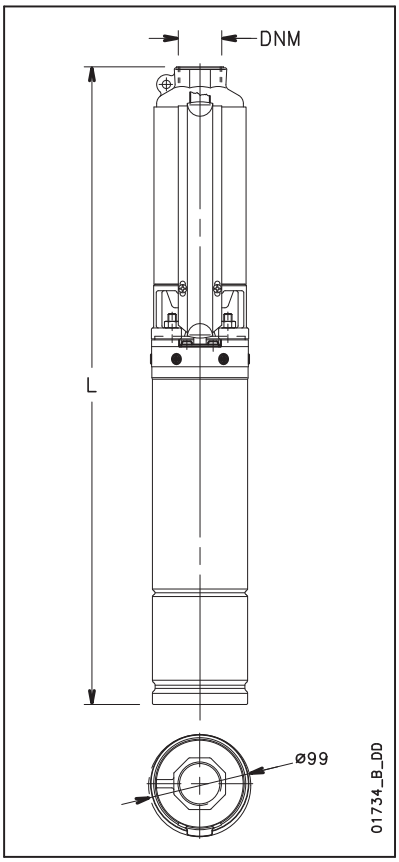
4gs-2p50_b_th



4GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
4GS03M-4OS	4	Rp 1 1/4	245	598	2,5	10,1
4GS05M-4OS	7	Rp 1 1/4	309	662	3,1	11,3
4GS07M-4OS	9	Rp 1 1/4	352	730	3,5	12,8
4GS11M-4OS	14	Rp 1 1/4	460	873	4,6	15,8
4GS15M-4OS	19	Rp 1 1/4	568	1016	5,7	18,5
4GS22M-4OS	27	Rp 1 1/4	770	1268	7,6	22,7
4GS03T-4OS	4	Rp 1 1/4	245	577	2,5	9,6
4GS05T-4OS	7	Rp 1 1/4	309	662	3,1	10,7
4GS07T-4OS	9	Rp 1 1/4	352	705	3,5	11,7
4GS11T-4OS	14	Rp 1 1/4	460	838	4,6	13,9
4GS15T-4OS	19	Rp 1 1/4	568	981	5,7	17,1
4GS22T-4OS	27	Rp 1 1/4	770	1218	7,6	20,5
4GS30T-4OS	35	Rp 1 1/4	967	1415	9,6	23,5
4GS40T-4OS	48	Rp 1 1/4	1248	1816	12,8	30,6

4gs-4os-2p50_a_td



4GS..L4C SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
4GS03M-L4C	4	Rp 1 1/4	245	479	2,5	9,7
4GS05M-L4C	7	Rp 1 1/4	309	573	3,1	10,9
4GS07M-L4C	9	Rp 1 1/4	352	636	3,5	11,9
4GS11M-L4C	14	Rp 1 1/4	460	789	4,6	15,5
4GS15M-L4C	19	Rp 1 1/4	568	959	5,7	18,4
4GS22M-L4C	27	Rp 1 1/4	770	1181	7,6	21,8
4GS03T-L4C	4	Rp 1 1/4	245	459	2,5	9,5
4GS05T-L4C	7	Rp 1 1/4	309	543	3,1	10,3
4GS07T-L4C	9	Rp 1 1/4	352	616	3,5	11,3
4GS11T-L4C	14	Rp 1 1/4	460	744	4,6	13
4GS15T-L4C	19	Rp 1 1/4	568	914	5,7	17,7
4GS22T-L4C	27	Rp 1 1/4	770	1161	7,6	20,4
4GS30T-L4C	35	Rp 1 1/4	967	1509	9,6	30,2
4GS40T-L4C	48	Rp 1 1/4	1248	1860	12,8	36,5

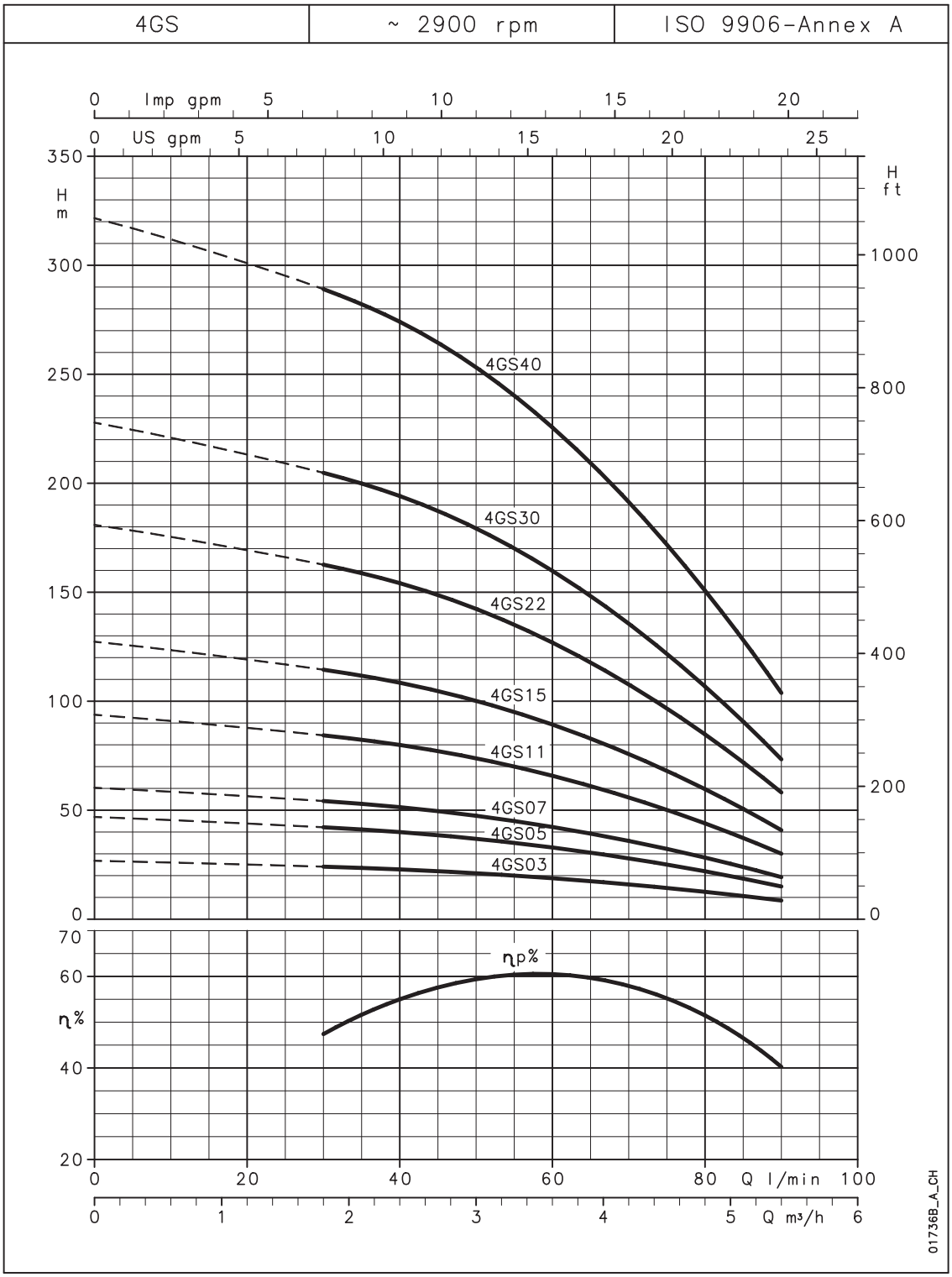
4gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

4GS SERIES
Operating characteristics at 50 Hz

4GS	~ 2900 rpm	ISO 9906-Annex A

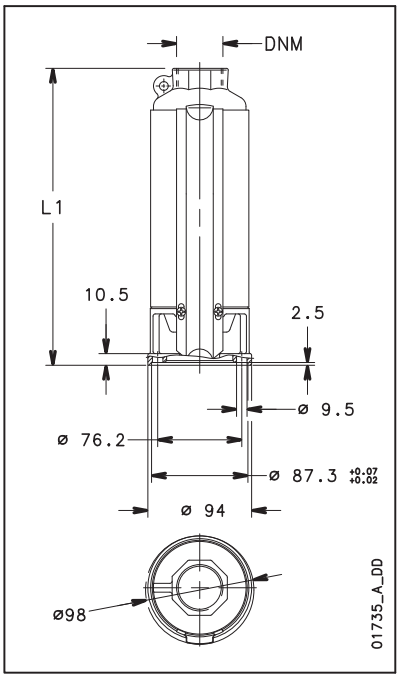


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

6GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	NUMBER OF STAGES	RATED POWER		Q = DELIVERY					
				l/min	0	50	70	90	110	133
				m^3/h	0	3	4,2	5,4	6,6	8
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)						
6GS05	5	0,55	0,75	30,5	25,8	23	21	17	11,5
6GS07	7	0,75	1	42,7	36,1	33	29	24	16,1
6GS11	10	1,1	1,5	61	51,6	47	41	34	23
6GS15	14	1,5	2	85,4	72,2	66	58	48	32,2
6GS22	21	2,2	3	128	108	99	87	71	48,3
6GS30	29	3	4	177	150	136	120	99	66,7
6GS40	38	4	5,5	232	196	179	157	129	87,4
6GS55	52	5,5	7,5	317	268	244	215	177	120

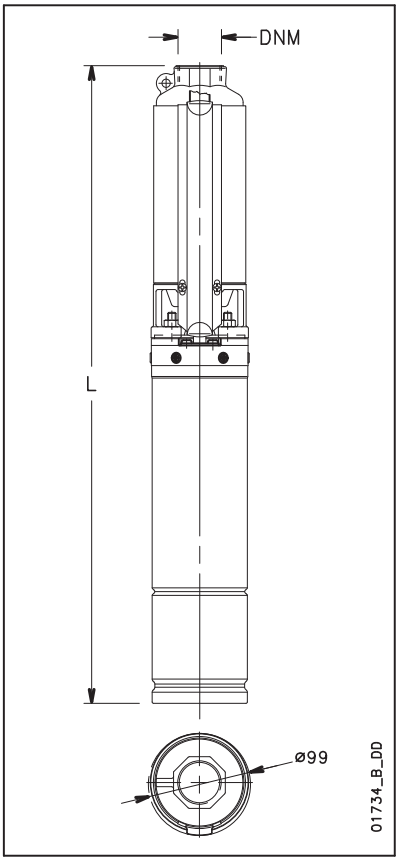
6gs-2p50-en_c_th



6GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
6GS05M-4OS	5	Rp 1 1/4	329	682	3,5	11,7
6GS07M-4OS	7	Rp 1 1/4	390	768	4,2	13,5
6GS11M-4OS	10	Rp 1 1/4	485	898	5,1	16,3
6GS15M-4OS	14	Rp 1 1/4	645	1093	6,8	19,6
6GS22M-4OS	21	Rp 1 1/4	862	1360	9,1	24,2
6GS05T-4OS	5	Rp 1 1/4	329	682	3,5	11,1
6GS07T-4OS	7	Rp 1 1/4	390	743	4,2	12,4
6GS11T-4OS	10	Rp 1 1/4	485	863	5,1	14,4
6GS15T-4OS	14	Rp 1 1/4	645	1058	6,8	18,2
6GS22T-4OS	21	Rp 1 1/4	862	1310	9,1	22
6GS30T-4OS	29	Rp 1 1/4	1127	1575	11,8	25,7
6GS40T-4OS	38	Rp 1 1/4	1406	1974	14,7	32,5
6GS55T-4OS	52	Rp 1 1/4	1840	2468	19,3	40,6

6gs-4os-2p50_a_td



6GS..L4C SERIES
Dimensions and weights

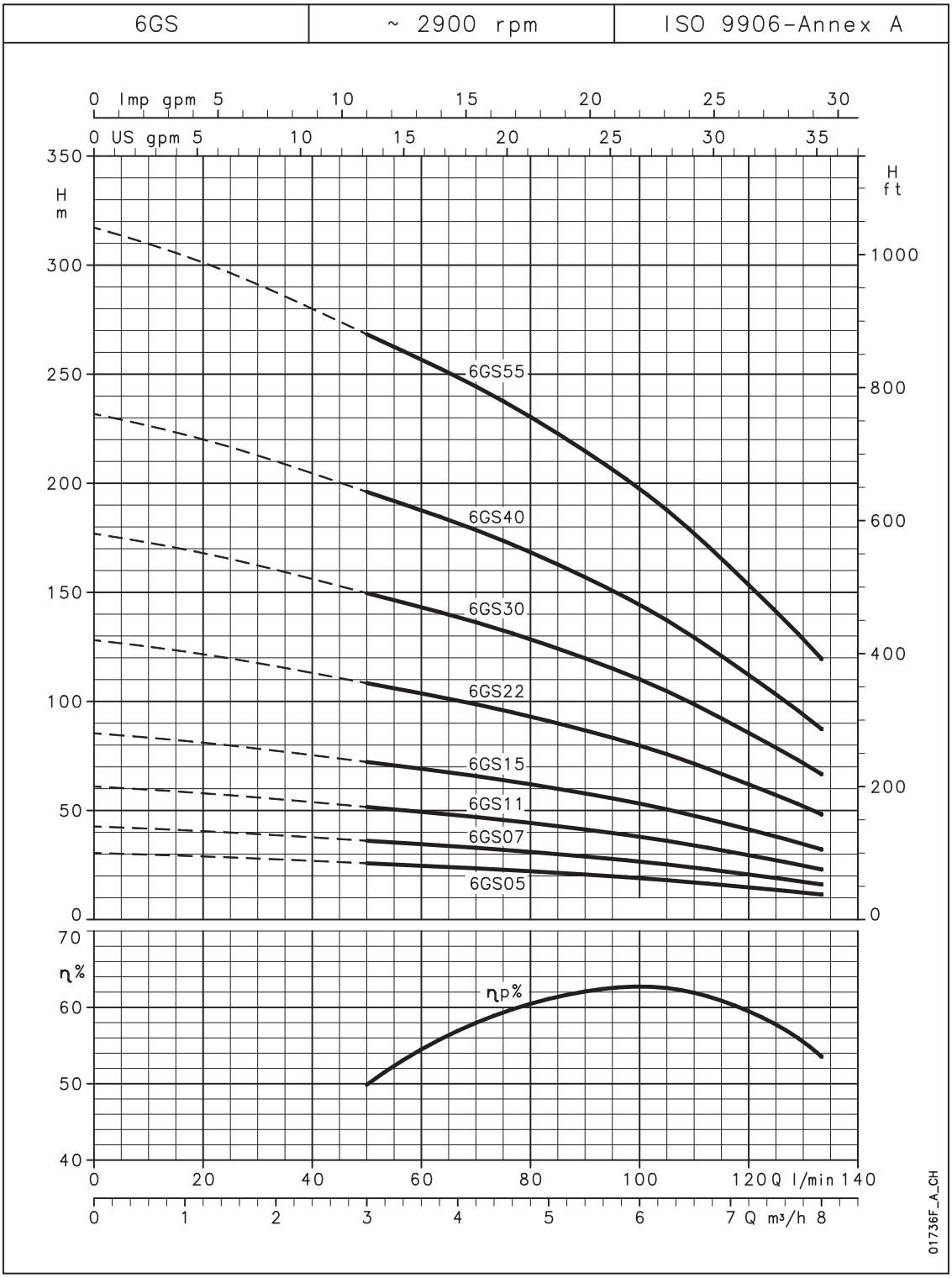
ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
6GS05M-L4C	5	Rp 1 1/4	329	593	3,5	11,3
6GS07M-L4C	7	Rp 1 1/4	390	674	4,2	12,6
6GS11M-L4C	10	Rp 1 1/4	485	814	5,1	16
6GS15M-L4C	14	Rp 1 1/4	645	1036	6,8	19,5
6GS22M-L4C	21	Rp 1 1/4	862	1273	9,1	23,3
6GS05T-L4C	5	Rp 1 1/4	329	563	3,5	10,7
6GS07T-L4C	7	Rp 1 1/4	390	654	4,2	12
6GS11T-L4C	10	Rp 1 1/4	485	769	5,1	13,5
6GS15T-L4C	14	Rp 1 1/4	645	991	6,8	18,8
6GS22T-L4C	21	Rp 1 1/4	862	1253	9,1	21,9
6GS30T-L4C	29	Rp 1 1/4	1127	1669	11,8	32,4
6GS40T-L4C	38	Rp 1 1/4	1406	2018	14,7	38,4
6GS55T-L4C	52	Rp 1 1/4	1840	2522	19,3	46,3

6gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

6GS SERIES
Operating characteristics at 50 Hz

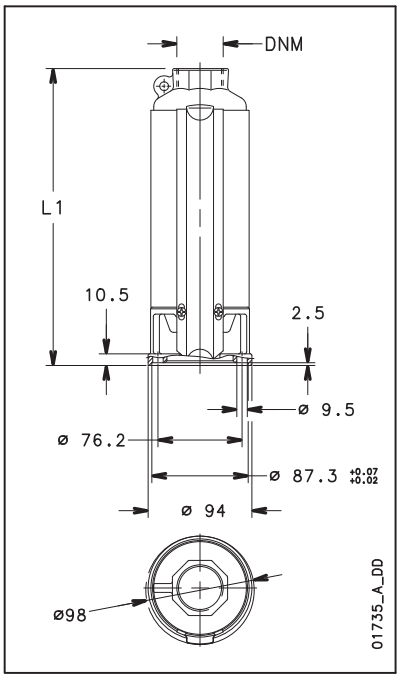


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

8GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	NUMBER OF STAGES	RATED POWER		Q = DELIVERY					
				l/min	0	67	100	120	140	183
				m^3/h	0	4	6	7,2	8,4	11
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)						
8GS07	4	0,75	1	26	23	22	20	18	11
8GS11	6	1,1	1,5	39	35	33	31	28	17
8GS15	8	1,5	2	52	46	44	41	37	22
8GS22	13	2,2	3	85	75	71	67	60	36
8GS30	17	3	4	111	98	93	87	78	47
8GS40	23	4	5,5	150	133	126	118	106	63
8GS55	32	5,5	7,5	208	185	175	164	147	88
8GS75	43	7,5	10	280	249	235	220	198	118

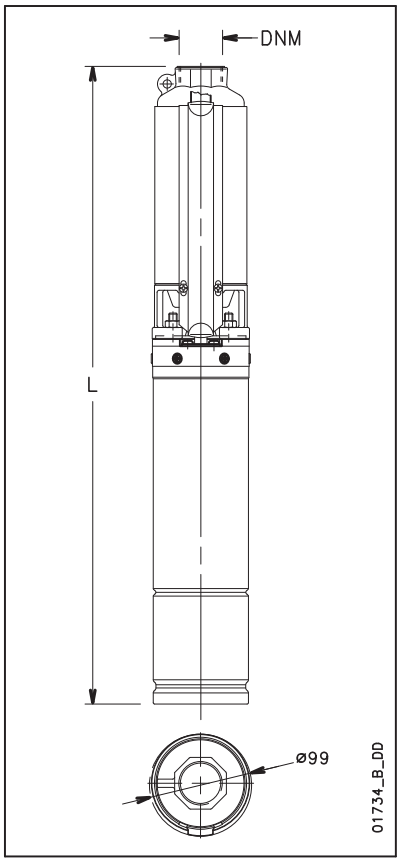
8gs-2p50_c_th



8GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
8GS07M-4OS	4	Rp 2	299	677	3,2	12,5
8GS11M-4OS	6	Rp 2	361	774	3,8	15
8GS15M-4OS	8	Rp 2	423	871	4,5	17,3
8GS22M-4OS	13	Rp 2	580	1078	6	21,1
8GS07T-4OS	4	Rp 2	299	652	3,2	11,4
8GS11T-4OS	6	Rp 2	361	739	3,8	13,1
8GS15T-4OS	8	Rp 2	423	836	4,5	15,9
8GS22T-4OS	13	Rp 2	580	1028	6	18,9
8GS30T-4OS	17	Rp 2	740	1188	7,8	21,7
8GS40T-4OS	23	Rp 2	926	1494	9,6	27,4
8GS55T-4OS	32	Rp 2	1224	1852	12,8	34,1
8GS75T-4OS	43	Rp 2	1563	2397	16,2	45

8gs-4os-2p50_a_td



8GS..L4C SERIES
Dimensions and weights

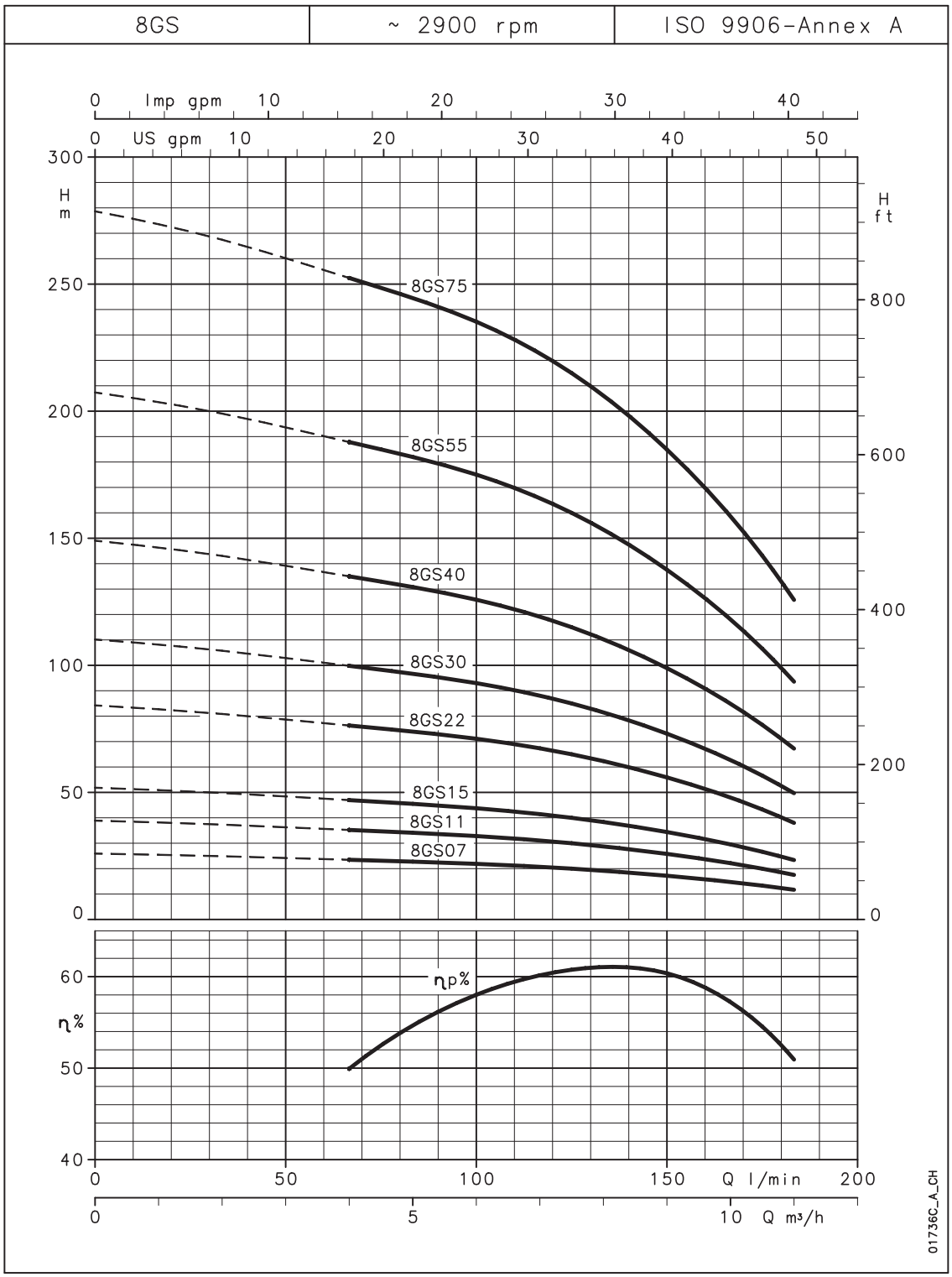
PUMP TYPE *	OF STAGES	DNM	(mm)		WEIGHT	PUMP WEIGHT
			L1	L	kg	kg
8GS07M-L4C	4	Rp 2	299	583	3,2	11,6
8GS11M-L4C	6	Rp 2	361	690	3,8	14,7
8GS15M-L4C	8	Rp 2	423	814	4,5	17,2
8GS22M-L4C	13	Rp 2	580	991	6	20,2
8GS07T-L4C	4	Rp 2	299	563	3,2	11
8GS11T-L4C	6	Rp 2	361	645	3,8	12,2
8GS15T-L4C	8	Rp 2	423	769	4,5	16,5
8GS22T-L4C	13	Rp 2	580	971	6	18,8
8GS30T-L4C	17	Rp 2	740	1282	7,8	28,4
8GS40T-L4C	23	Rp 2	926	1538	9,6	33,3
8GS55T-L4C	32	Rp 2	1224	1906	12,8	39,8
8GS75T-L4C	43	Rp 2	1563	2325	16,2	45,4

8gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

8GS SERIES
Operating characteristics at 50 Hz

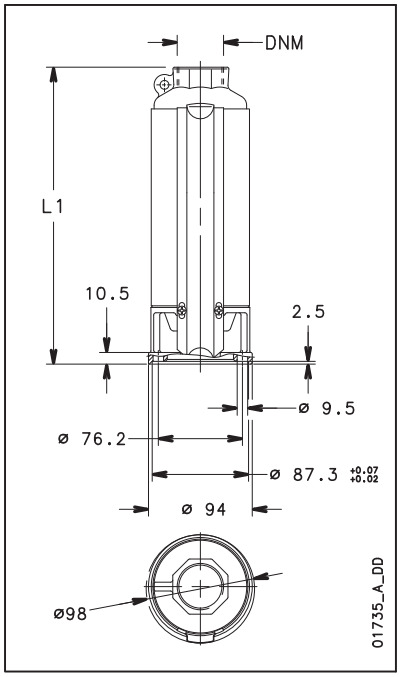


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

12GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	NUMBER OF STAGES	RATED POWER		Q = DELIVERY					
				l/min	0	100	150	175	200	250
				m^3/h	0	6	9	10,5	12	15
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)						
12GS15	7	1,5	2	43,9	37,3	31	28	24	14,6
12GS22	11	2,2	3	69	58,4	49	43	37	22,5
12GS30	15	3	4	94	79,4	67	59	50	30
12GS40	20	4	5,5	128,6	109,9	94	84	73	46
12GS55	27	5,5	7,5	173,6	148,3	127	113	98	62
12GS75	35	7,5	10	221,8	190,2	163	146	126	80

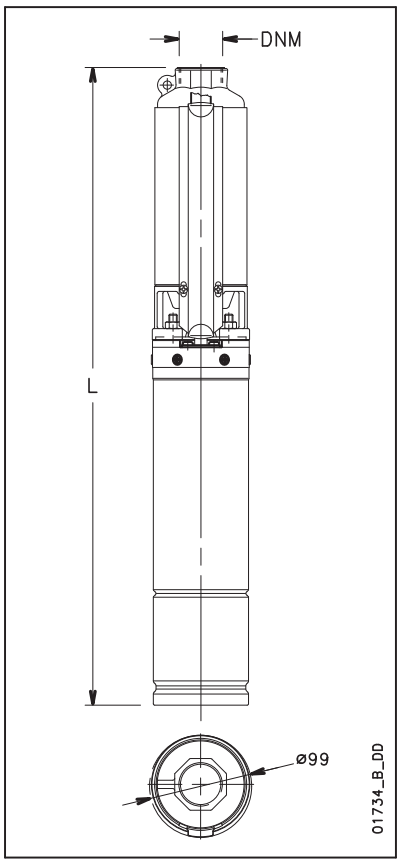
12gs-2p50_b_th



12GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
12GS15M-4OS	7	Rp 2	539	987	5,2	18
12GS22M-4OS	11	Rp 2	785	1283	7,9	23
12GS15T-4OS	7	Rp 2	539	952	5,2	16,6
12GS22T-4OS	11	Rp 2	785	1233	7,9	20,8
12GS30T-4OS	15	Rp 2	992	1440	10	23,9
12GS40T-4OS	20	Rp 2	1252	1820	12,6	30,4
12GS55T-4OS	27	Rp 2	1634	2262	16,8	38,1
12GS75T-4OS	35	Rp 2	2049	2883	20,9	49,7

12gs-4os-2p50_a_td



12GS..L4C SERIES
Dimensions and weights

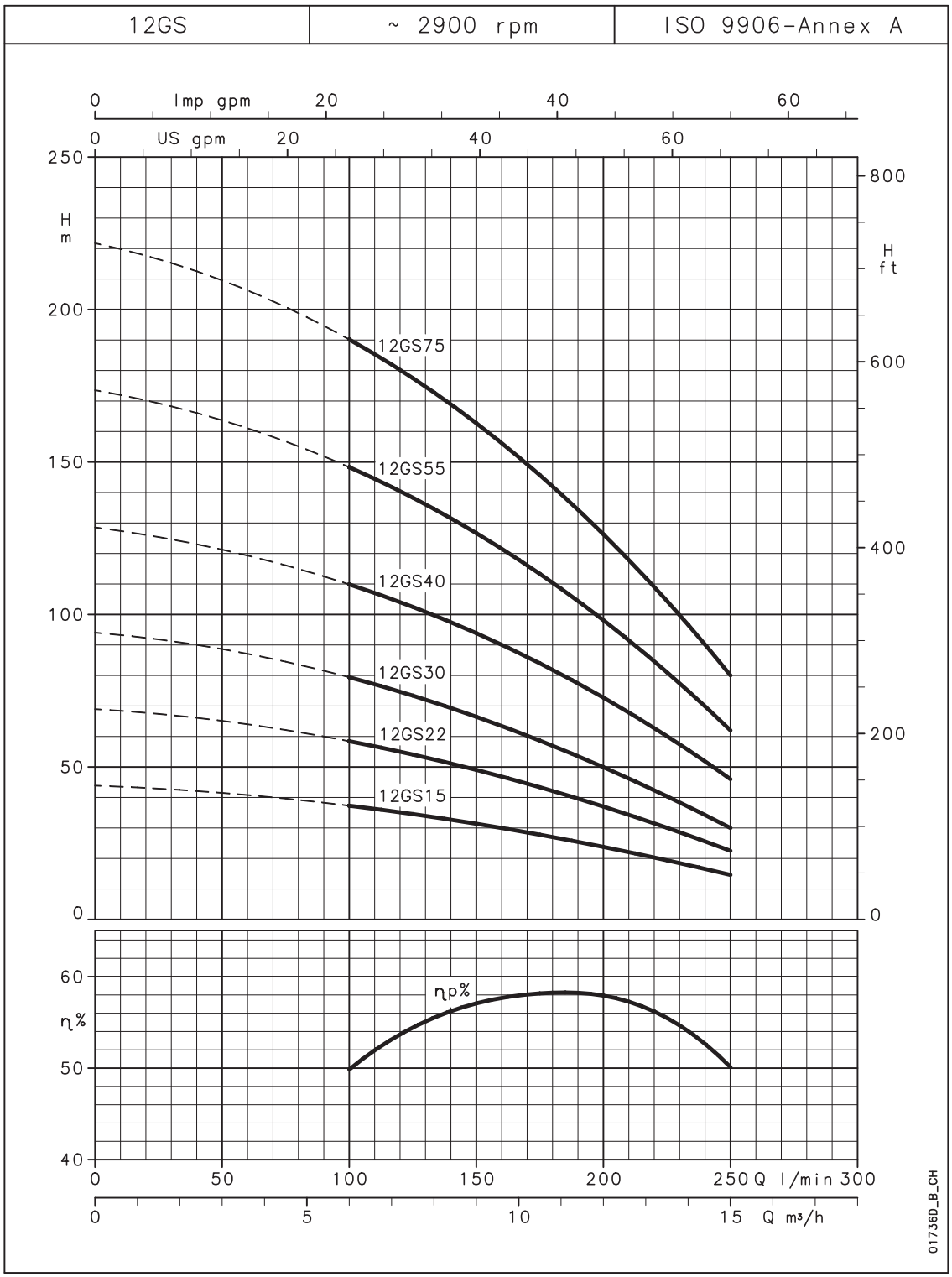
ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
12GS15M-L4C	7	Rp 2	539	930	5,2	17,9
12GS22M-L4C	11	Rp 2	785	1196	7,9	22,1
12GS15T-L4C	7	Rp 2	539	885	5,2	17,2
12GS22T-L4C	11	Rp 2	785	1176	7,9	20,7
12GS30T-L4C	15	Rp 2	992	1534	10	30,6
12GS40T-L4C	20	Rp 2	1252	1864	12,6	36,3
12GS55T-L4C	27	Rp 2	1634	2316	16,8	43,8
12GS75T-L4C	35	Rp 2	2049	2811	20,9	50,1

12gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

Motor and pump are packed separately.

12GS SERIES
Operating characteristics at 50 Hz

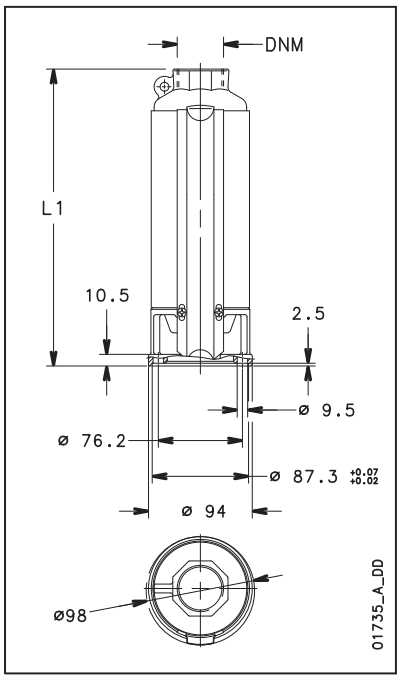


These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

16GS SERIES
Hydraulic performance table at 50 Hz

PUMP TYPE	NUMBER OF STAGES	RATED POWER		Q = DELIVERY					
				l/min	0	133	200	250	300	367
				m^3/h	0	8	12	15	18	22
		kW	HP	H = TOTAL HEAD IN COLUMN OF WATER (METRES)						
16GS22	9	2,2	3	49,5	40,3	34	29	23	14
16GS30	12	3	4	66	54	46	39	31	20,4
16GS40	16	4	5,5	92,1	74,9	64	54	44	29
16GS55	21	5,5	7,5	120,9	98,6	84	72	59	39
16GS75	28	7,5	10	161,2	131,5	112	96	78	52

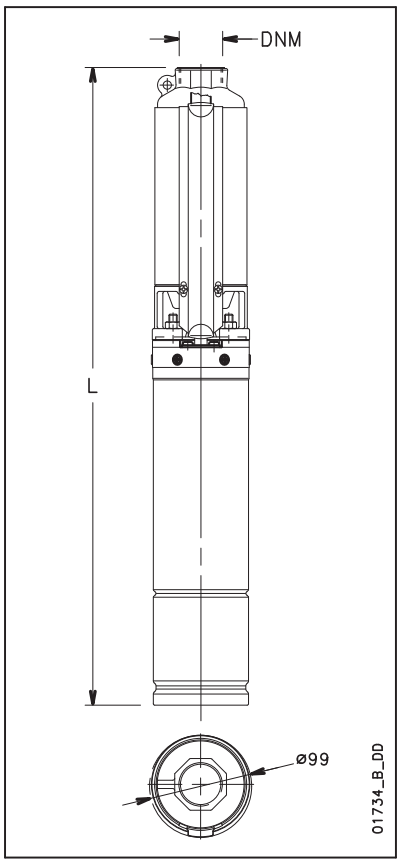
16gs-2p50_b_th



16GS..4OS SERIES
Dimensions and weights

ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
16GS22M-4OS	9	Rp 2	749	1247	7,7	22,8
16GS22T-4OS	9	Rp 2	749	1197	7,7	20,6
16GS30T-4OS	12	Rp 2	953	1401	9,7	23,6
16GS40T-4OS	16	Rp 2	1224	1792	12,4	30,2
16GS55T-4OS	21	Rp 2	1620	2248	16,5	37,8
16GS75T-4OS	28	Rp 2	2096	2930	21,2	50

16gs-4os-2p50_a_td



16GS..L4C SERIES
Dimensions and weights

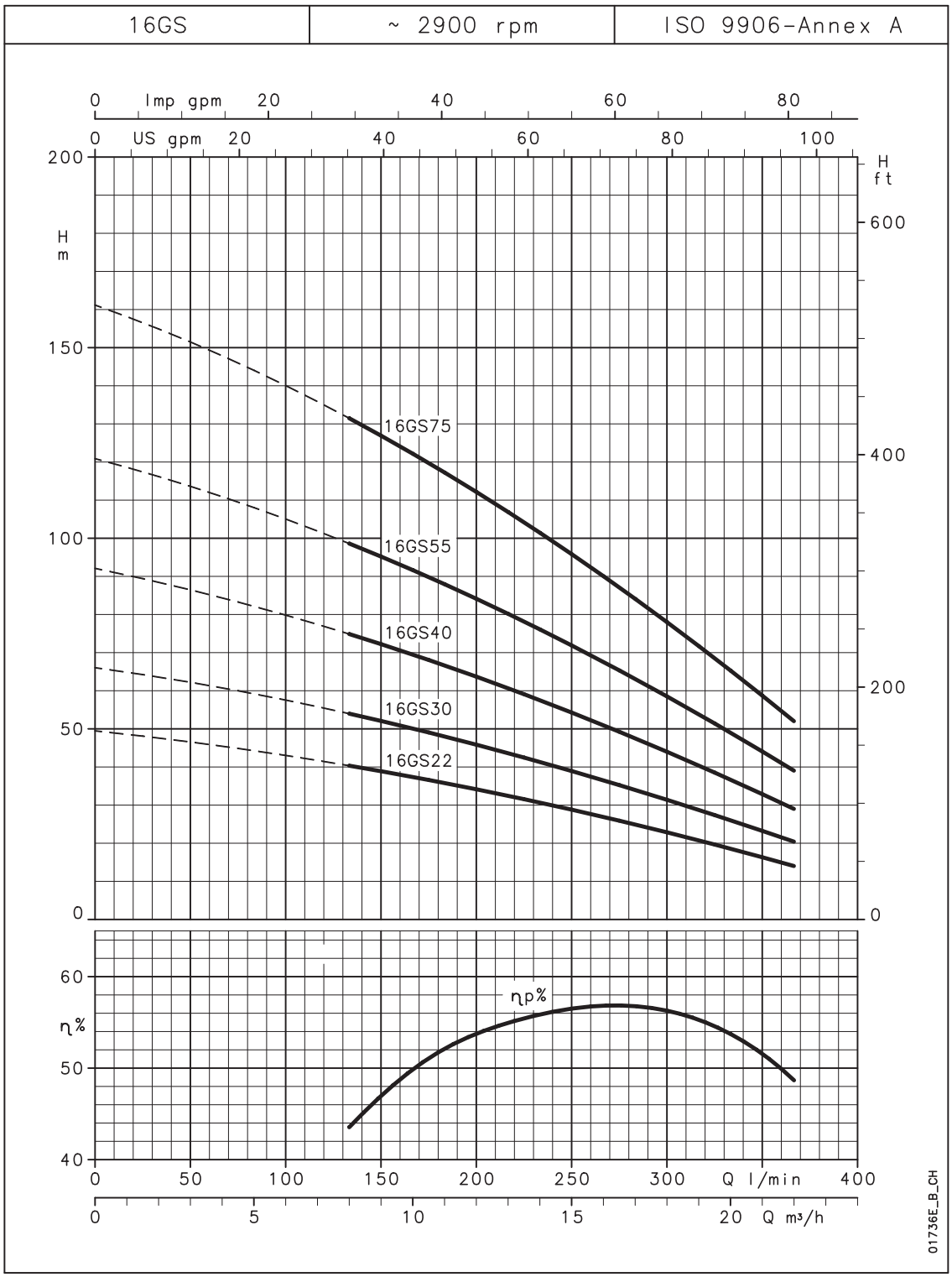
ELECTRIC PUMP TYPE *	NUMBER OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT	ELECTRIC PUMP WEIGHT
			L1	L	kg	kg
16GS22M-L4C	9	Rp 2	749	1160	7,7	21,9
16GS22T-L4C	9	Rp 2	749	1140	7,7	20,5
16GS30T-L4C	12	Rp 2	953	1495	9,7	30,3
16GS40T-L4C	16	Rp 2	1224	1836	12,4	36,1
16GS55T-L4C	21	Rp 2	1620	2302	16,5	43,5
16GS75T-L4C	28	Rp 2	2096	2858	21,2	50,4

16gs-l4c-2p50_a_td

* Electric pumps over 1500 mm long are supplied uncoupled.

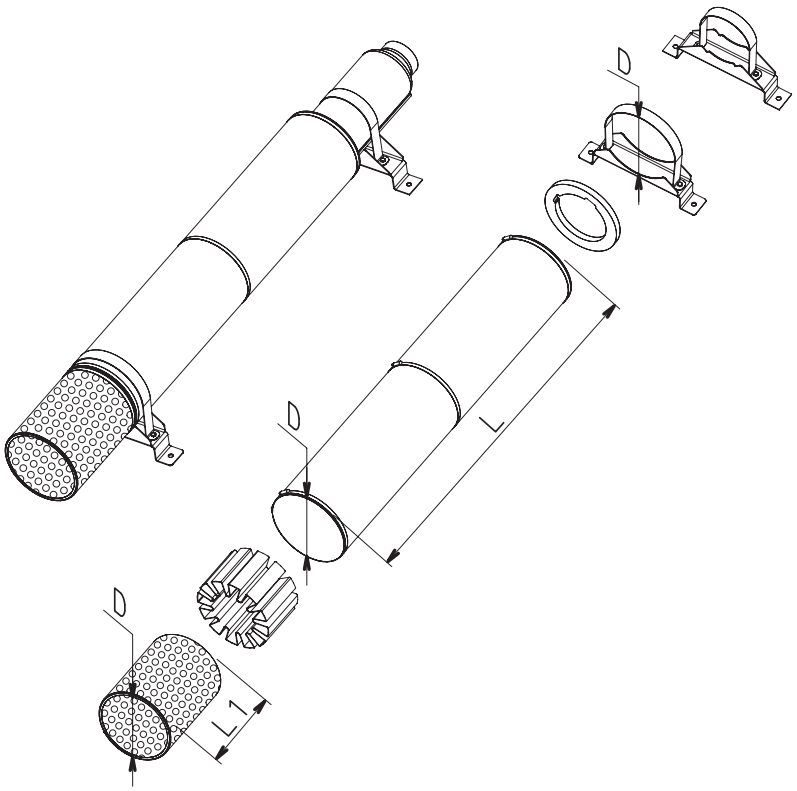
Motor and pump are packed separately.

16GS SERIES
Operating characteristics at 50 Hz



These performances are valid for liquids with density ρ = 1.0 kg/dm³ and kinematic viscosity ν = 1 mm²/s.

01890_B_DD



GS SERIES pump and 4" motor selection table

PUMP TYPE	MOTOR TYPE 4OS/B	MOTOR TYPE L4C	COOLING SET SHROUD (D x L)	COOLING SET FILTER (D x L1)	COOLING SET BRACKETS (D)
1GSL 2GS 4GS 6GS 8GS 12GS	0,37	0,37	D115X500	D115X117	D115/2 - 2PZ
	0,55	0,55			
	0,75	0,75			
	1,1	1,1			
	1,5	1,5	D115X800	D115X117	D115 - 2PZ
	2,2	2,2			
	3	3			
	4	4			
	5,5	5,5	D115X1000	D115X117	D115 - 2PZ
	7,5	7,5			
16GS	2,2	2,2	D145X800	D145X158	D145 - 2PZ
	3	3			
	4	4			
	5,5	5,5	D145X1000	D145X158	D145 - 2PZ
	7,5	7,5			

gs_kit-raf50-en_b_ta

Z-ZN 6" Series

Multi-stage centrifugal submersible pumps for clean water in 6" wells. Made of AISI 304 or AISI 316 stainless steel. These durable and lightweight pumps assure high-efficiency, low maintenance costs and ease of management.
Their main characteristics include the possibility of replacing the impeller inlet wear ring.
Available in the high-pressure version to guarantee heads of up to 700 metres.
Can be coupled to all NEMA-standard motors.

Specifications

Delivery: up to 78 m^3/h
Head: up to 700 metres (high-pressure version)
Power supply: three-phase 50 and 60 Hz
Three-phase version: 380-415 V
Power: 0.55 kW to 55 kW
Can be coupled with L4C, L6W and L8W three-phase asynchronous motors in a coolant bath.
Maximum overall diameter of pump (two cable covers included):
144 mm (standard version),
195 mm (high-pressure version)
Water temperature: 0°C to +60°C (depending on the limits of the associated motor)
Maximum permissible quantity of suspended sand: 100 g/m^3

Materials

Delivery port, non-return valve, diffuser, impeller, cable cover, lower support, pump shaft, coupling, spacer, screws, tie-rods: Stainless steel
Thrust bearing: PTFE
Wear ring: Technopolymer PPO
Upper bearing: tungsten carbide
Shaft guide bearing: polyurethane
Elastomers: EPDM

Applications

Water supply

Pressure boosting

Irrigation

Fire-fighting

Mining industry

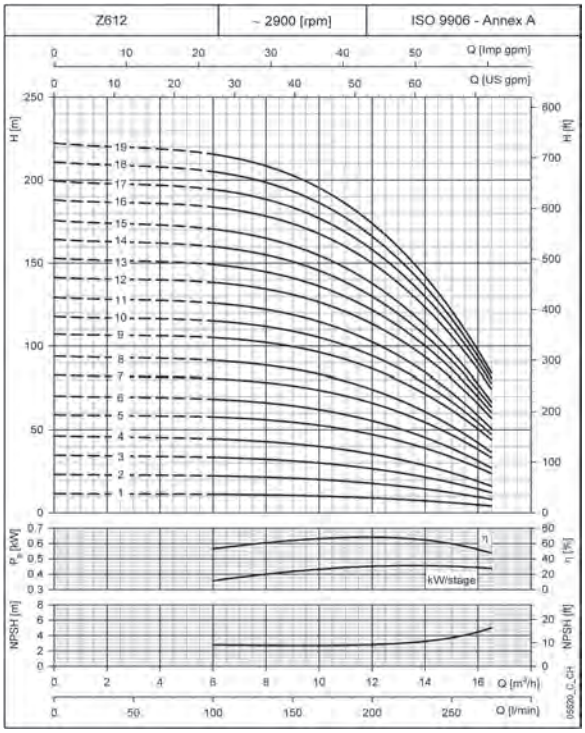
Golf

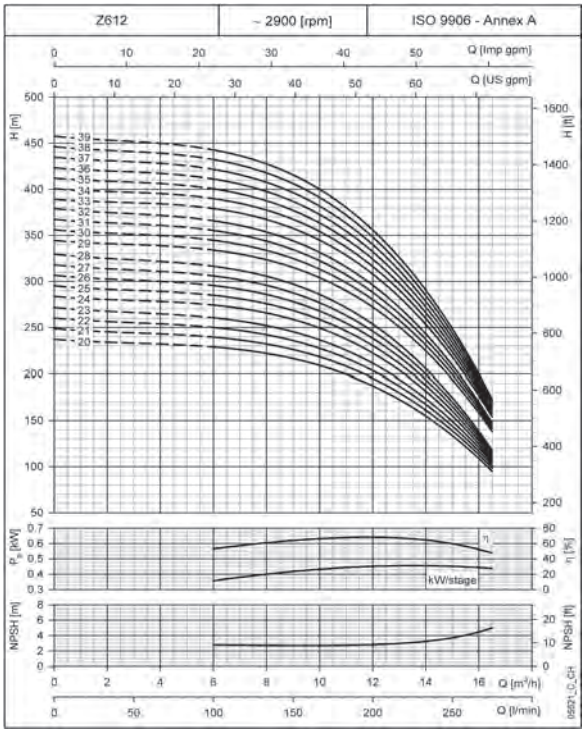
Groundwater level control

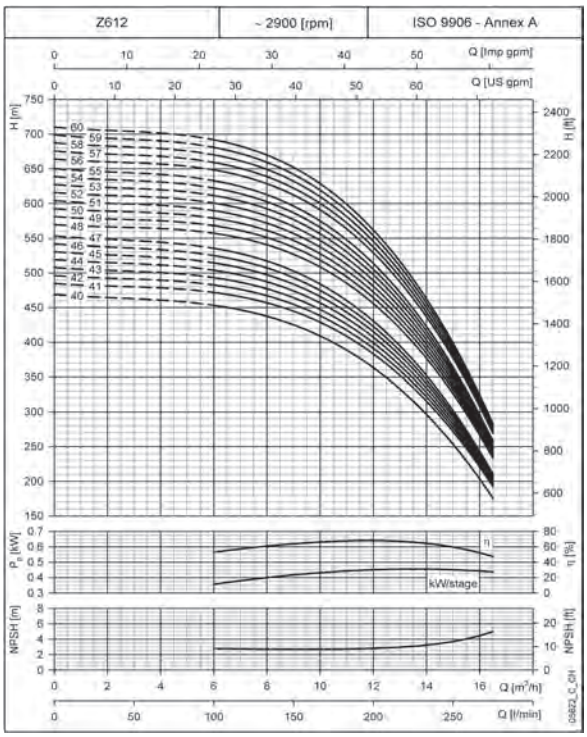


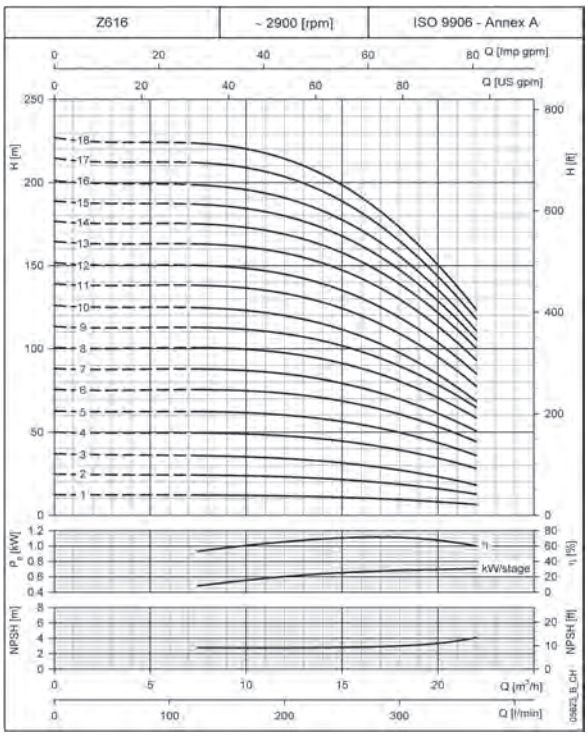
For a complete list of technical information, consult www.lowara.com

Z6 SERIES
Operating characteristics at 50 Hz



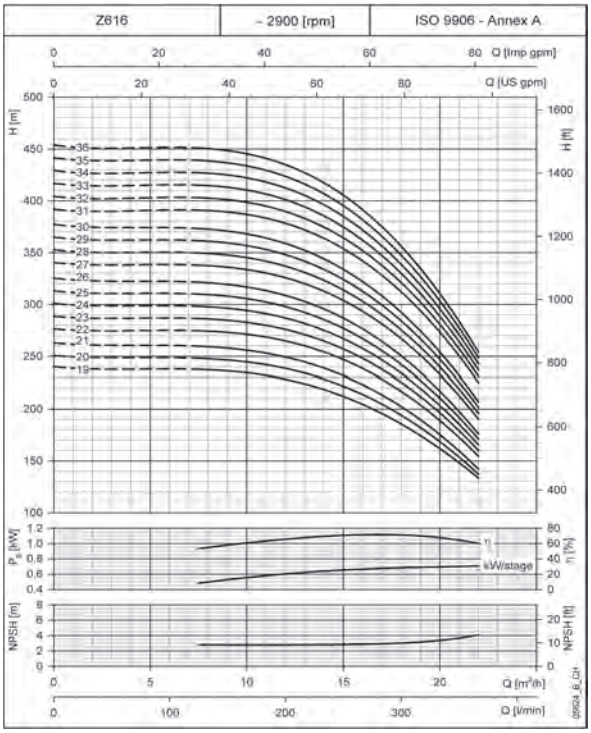


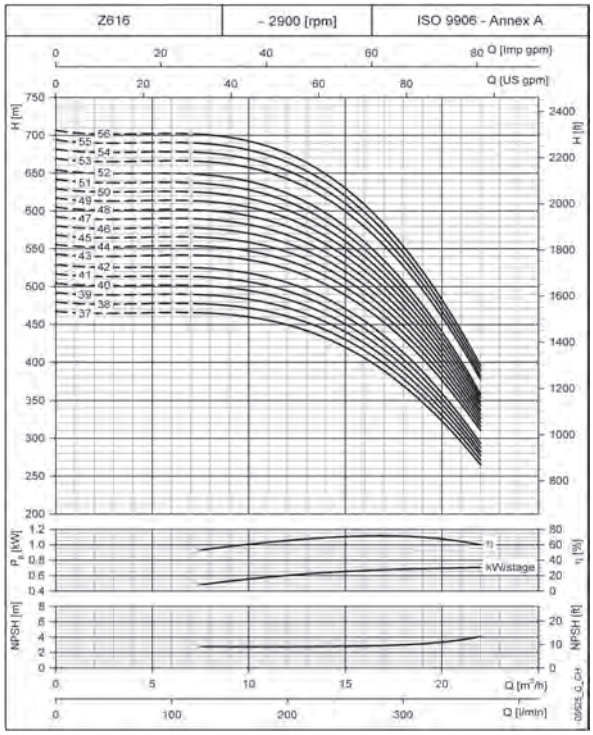


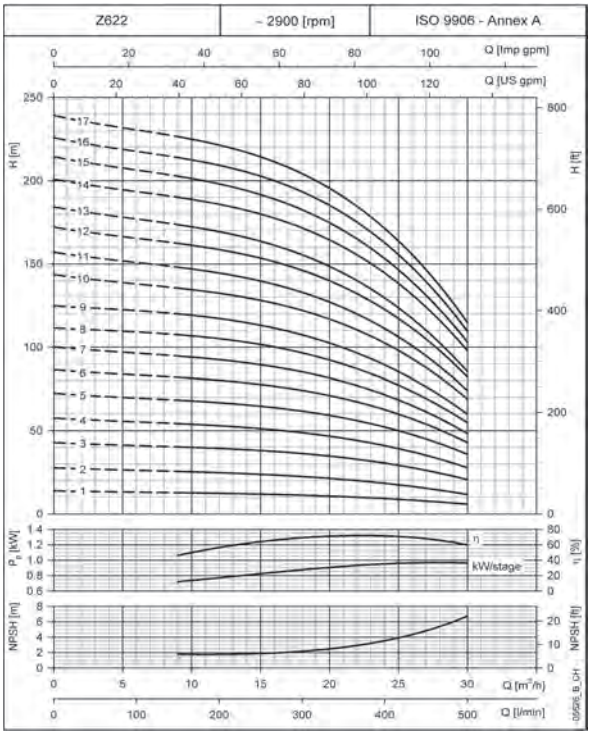


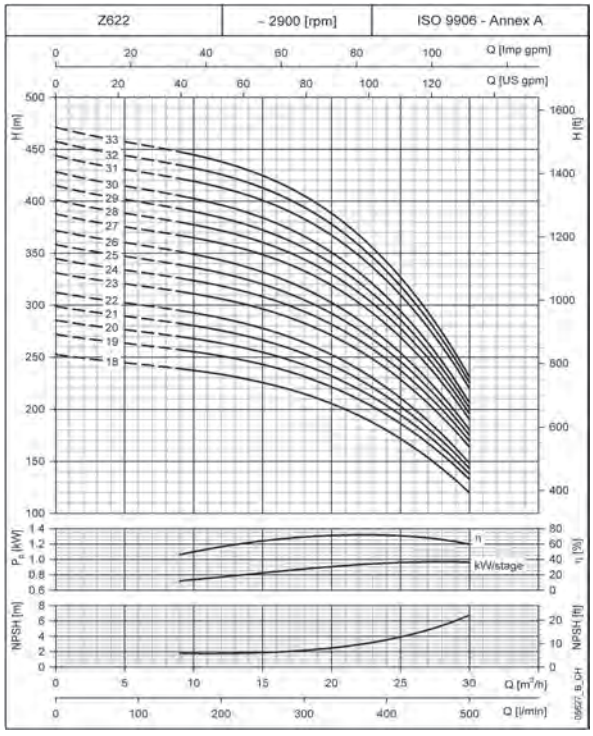
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z6 SERIES
Operating characteristics at 50 Hz



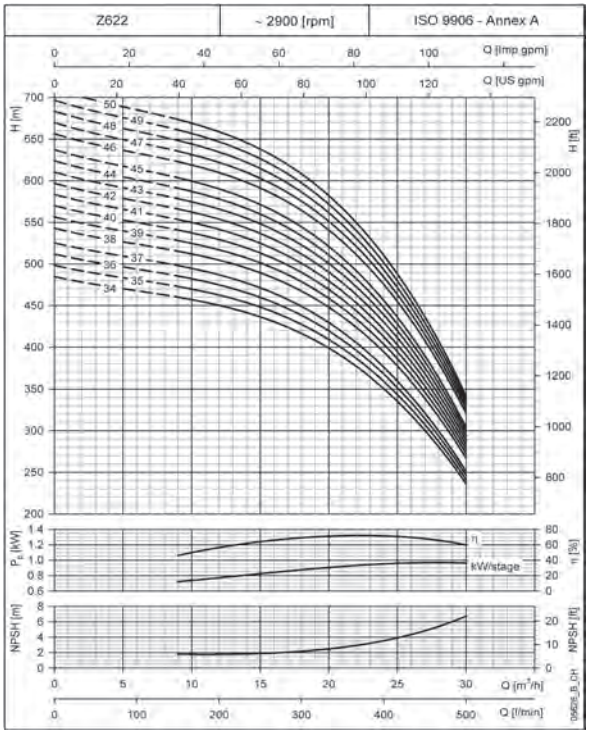


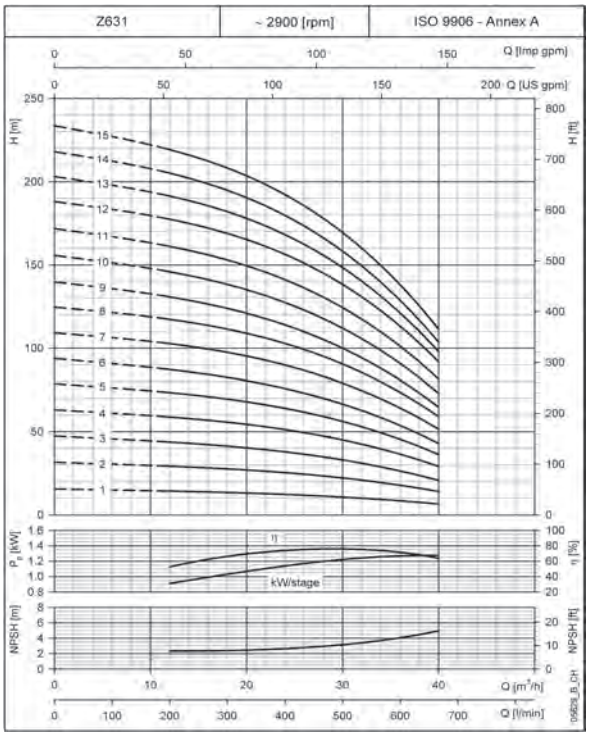


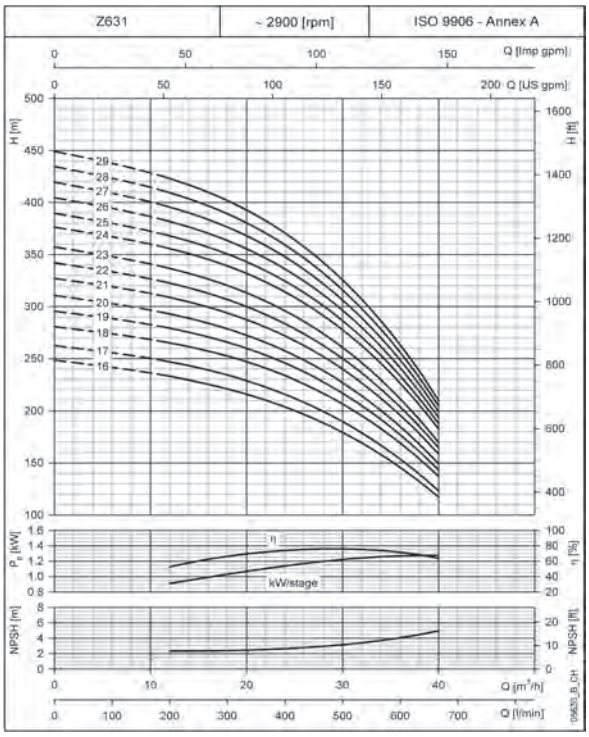


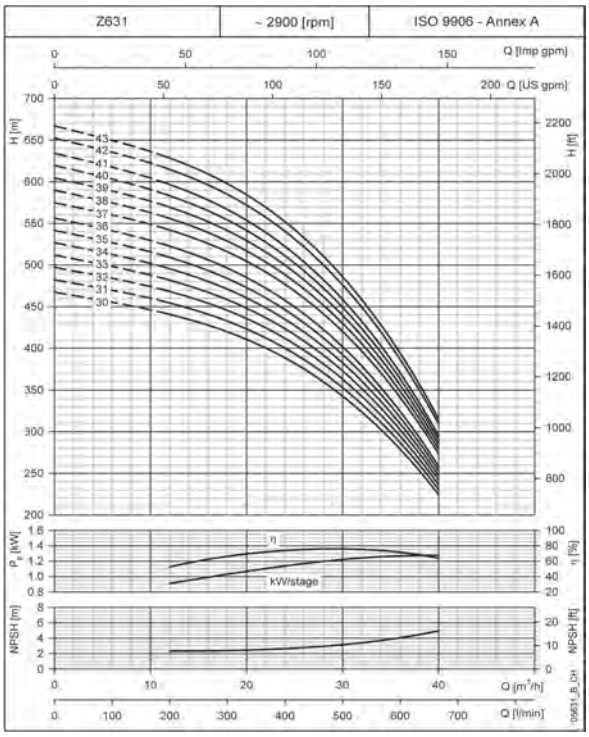
These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.

Z6 SERIES
Operating characteristics at 50 Hz



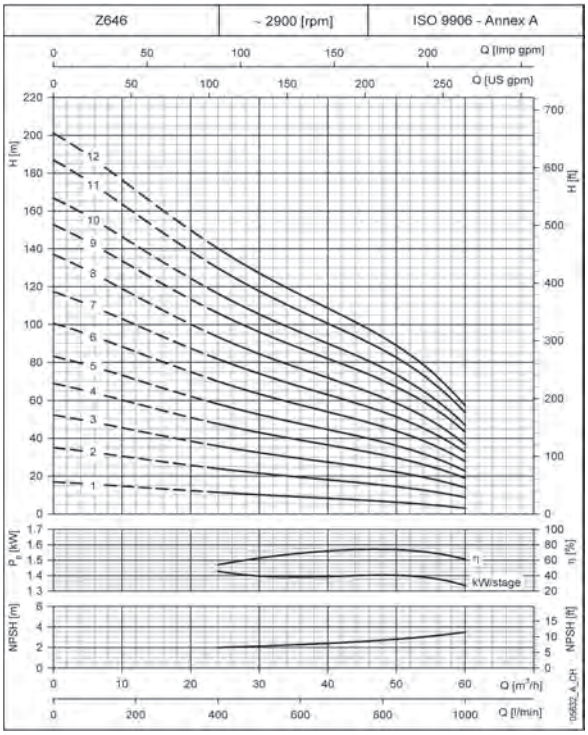


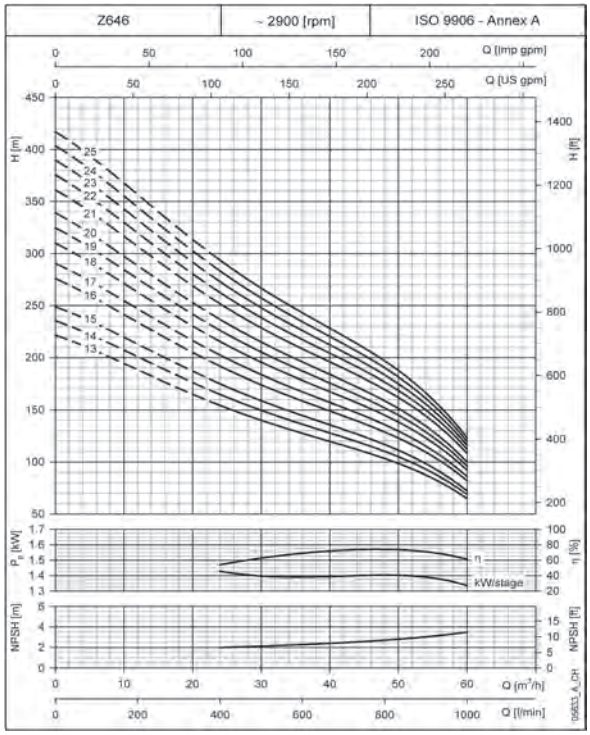


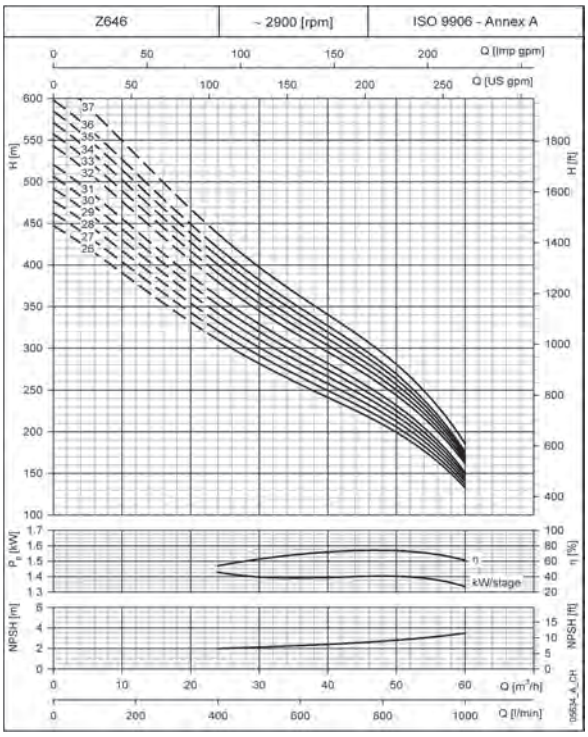


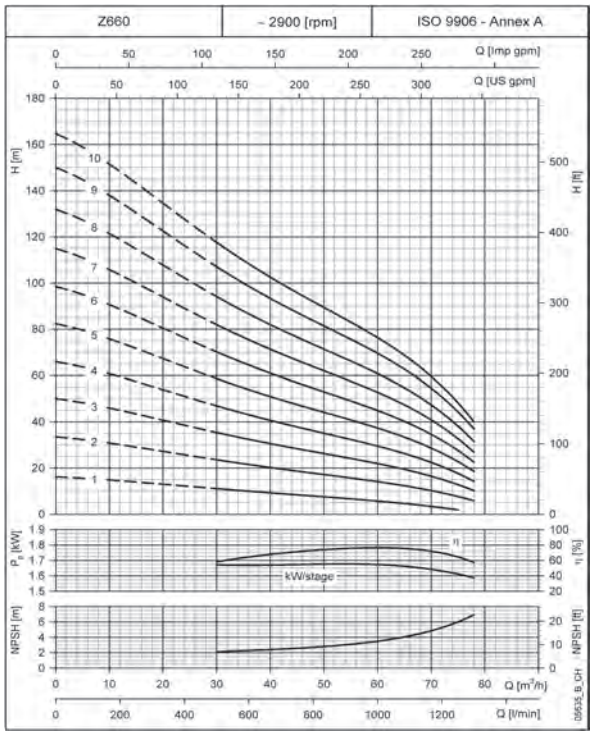
These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z6 SERIES
Operating characteristics at 50 Hz



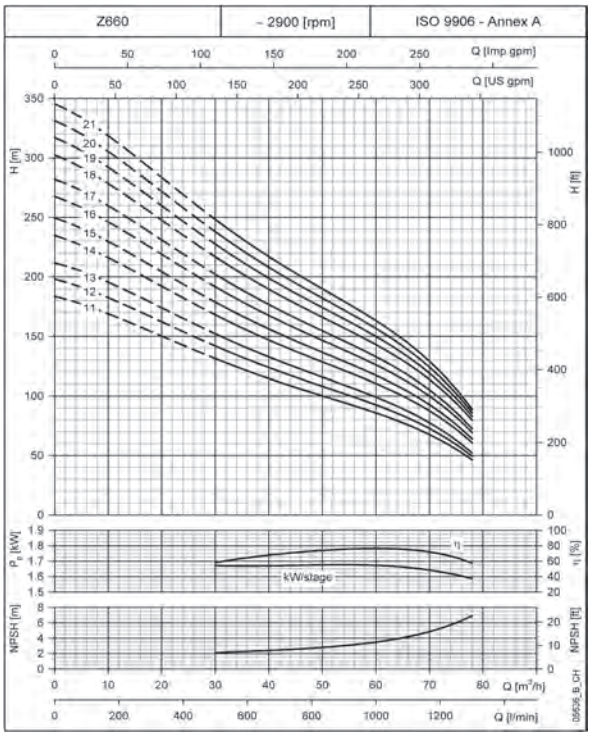


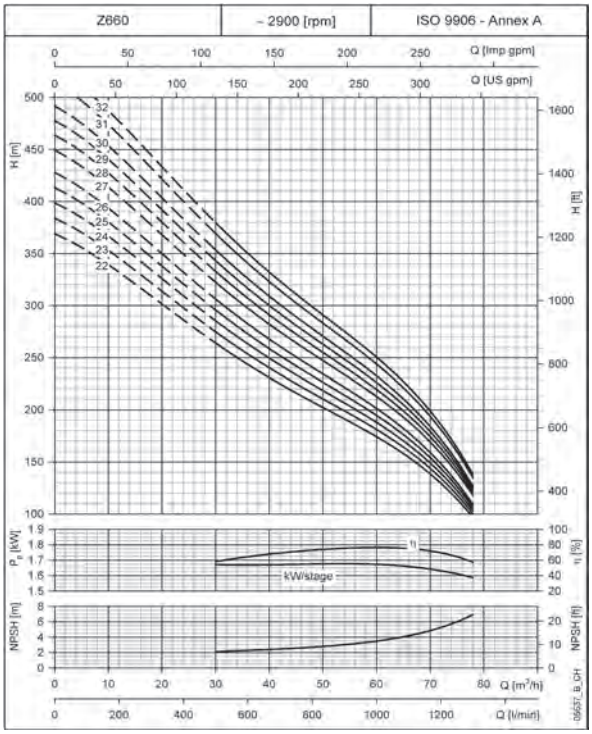




These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

Z6 SERIES
Operating characteristics at 50 Hz





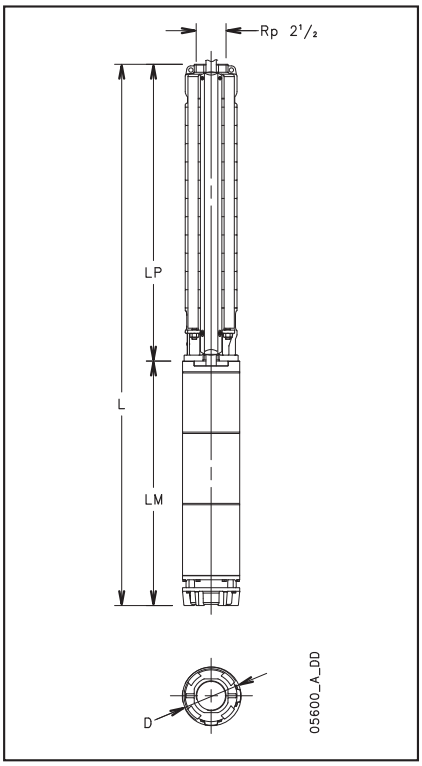
4

These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z612 SERIES, 1 TO 19 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 01-L4C	0,55	616	236	380	142	144	16
Z612 02-L4C	1,1	712	286	426	142	144	19
Z612 03-L4C	1,5	820	348	472	142	144	23
Z612 04-L4C	2,2	911	393	518	142	144	25
Z612 05-L4C	3	1108	544	564	142	144	34
Z612 06-L4C	3	1154	544	610	142	144	36
Z612 07-L4C	4	1270	614	656	142	144	40
Z612 08-L4C	4	1316	614	702	142	144	41
Z612 09-L4C	5,5	1432	684	748	142	144	45
Z612 10-L4C	5,5	1478	684	794	142	144	47
Z612 11-L4C	5,5	1524	684	840	142	144	48
Z612 12-L4C	7,5	1650	764	886	142	144	51
Z612 13-L4C	7,5	1696	764	932	142	144	52
Z612 14-L4C	7,5	1742	764	978	142	144	53
Z612 15-L4C	7,5	1788	764	1024	142	144	55
Z612 07-L6W	4	1239	583	656	144	146	54
Z612 08-L6W	4	1285	583	702	144	146	55
Z612 09-L6W	5,5	1361	613	748	144	146	61
Z612 10-L6W	5,5	1407	613	794	144	146	62
Z612 11-L6W	5,5	1453	613	840	144	146	63
Z612 12-L6W	7,5	1539	653	886	144	146	68
Z612 13-L6W	7,5	1585	653	932	144	146	69
Z612 14-L6W	7,5	1631	653	978	144	146	70
Z612 15-L6W	7,5	1677	653	1024	144	146	72
Z612 16-L6W	9,3	1753	683	1070	144	146	77
Z612 17-L6W	9,3	1799	683	1116	144	146	78
Z612 18-L6W	9,3	1845	683	1162	144	146	79
Z612 19-L6W	9,3	1891	683	1208	144	146	80

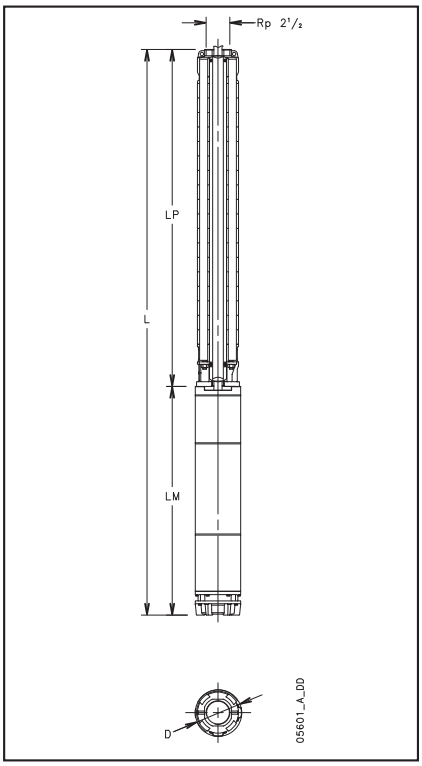
z612-1-50-en_a_td



Z612 SERIES, 20 TO 39 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 20-L6W	11	1977	723	1254	144	146	86
Z612 21-L6W	11	2023	723	1300	144	146	87
Z612 22-L6W	11	2069	723	1346	144	146	88
Z612 23-L6W	11	2161	723	1438	144	146	90
Z612 24-L6W	13	2247	763	1484	144	146	95
Z612 25-L6W	13	2293	763	1530	144	146	96
Z612 26-L6W	13	2339	763	1576	144	146	98
Z612 27-L6W	13	2385	763	1622	144	146	99
Z612 28-L6W	13	2431	763	1668	144	146	100
Z612 29-L6W	15	2547	833	1714	144	146	109
Z612 30-L6W	15	2593	833	1760	144	146	110
Z612 31-L6W	15	2639	833	1806	144	146	112
Z612 32-L6W	15	2685	833	1852	144	146	113
Z612 33-L6W	18,5	2801	903	1898	144	146	122
Z612 34-L6W	18,5	2847	903	1944	144	146	123
Z612 35-L6W	18,5	2893	903	1990	144	146	124
Z612 36-L6W	18,5	2985	903	2082	144	146	126
Z612 37-L6W	18,5	3031	903	2128	144	146	128
Z612 38-L6W	18,5	3077	903	2174	144	146	129
Z612 39-L6W	18,5	3123	903	2220	144	146	130

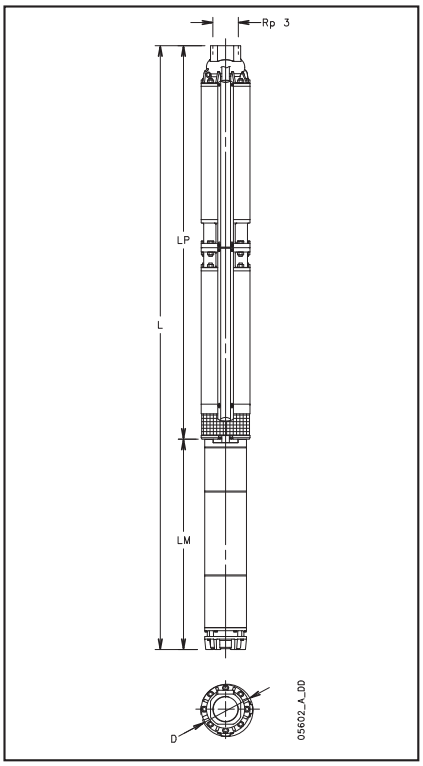
z612-2-50-en_b_td



Z612 SERIES, 40 TO 60 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z612 40D-L6W	18,5	3825	903	2922	177	180	188
Z612 41D-L6W	22	3865	943	2922	177	180	192
Z612 42D-L6W	22	3865	943	2922	177	180	193
Z612 43D-L6W	22	3865	943	2922	177	180	193
Z612 44D-L6W	22	3865	943	2922	177	180	194
Z612 45D-L6W	22	3865	943	2922	177	180	194
Z612 46D-L6W	22	3865	943	2922	177	180	195
Z612 47D-L6W	22	3865	943	2922	177	180	195
Z612 48D-L6W	26	4407	1071	3336	177	180	217
Z612 49D-L6W	26	4407	1071	3336	177	180	218
Z612 50D-L6W	26	4407	1071	3336	177	180	218
Z612 51D-L6W	26	4407	1071	3336	177	180	219
Z612 52D-L6W	26	4407	1071	3336	177	180	219
Z612 53D-L6W	26	4407	1071	3336	177	180	220
Z612 54D-L6W	26	4407	1071	3336	177	180	221
Z612 55D-L6W	26	4407	1071	3336	177	180	221
Z612 56D-L6W	30	4487	1151	3336	177	180	230
Z612 57D-L6W	30	4625	1151	3474	177	180	234
Z612 58D-L6W	30	4625	1151	3474	177	180	234
Z612 59D-L6W	30	4625	1151	3474	177	180	235
Z612 60D-L6W	30	4763	1151	3612	177	180	239

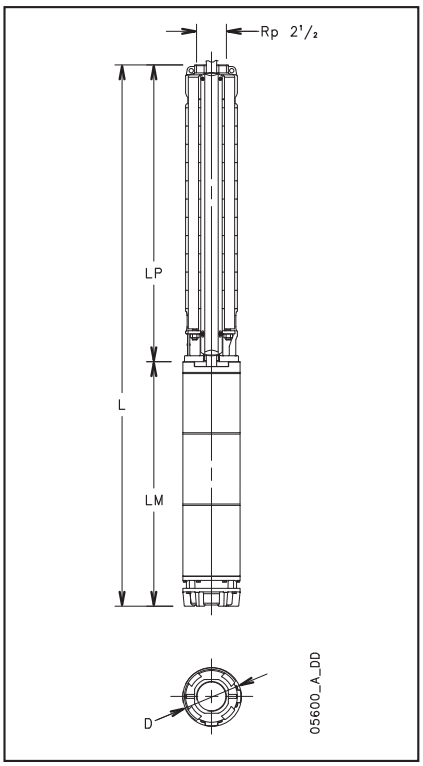
z612-3-50-en_b_td



Z616 SERIES, 1 TO 18 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z616 01-L4C	0,75	646	266	380	142	144	17
Z616 02-L4C	1,5	774	348	426	142	144	22
Z616 03-L4C	2,2	865	393	472	142	144	24
Z616 04-L4C	3	1062	544	518	142	144	33
Z616 05-L4C	4	1178	614	564	142	144	37
Z616 06-L4C	5,5	1294	684	610	142	144	42
Z616 07-L4C	5,5	1340	684	656	142	144	43
Z616 08-L4C	7,5	1466	764	702	142	144	46
Z616 09-L4C	7,5	1512	764	748	142	144	48
Z616 10-L4C	7,5	1558	764	794	142	144	49
Z616 05-L6W	4	1147	583	564	144	146	52
Z616 06-L6W	5,5	1223	613	610	144	146	57
Z616 07-L6W	5,5	1269	613	656	144	146	58
Z616 08-L6W	7,5	1355	653	702	144	146	63
Z616 09-L6W	7,5	1401	653	748	144	146	65
Z616 10-L6W	7,5	1447	653	794	144	146	66
Z616 11-L6W	9,3	1523	683	840	144	146	71
Z616 12-L6W	9,3	1569	683	886	144	146	72
Z616 13-L6W	11	1655	723	932	144	146	77
Z616 14-L6W	11	1701	723	978	144	146	78
Z616 15-L6W	11	1747	723	1024	144	146	80
Z616 16-L6W	11	1793	723	1070	144	146	81
Z616 17-L6W	13	1879	763	1116	144	146	86
Z616 18-L6W	13	1925	763	1162	144	146	87

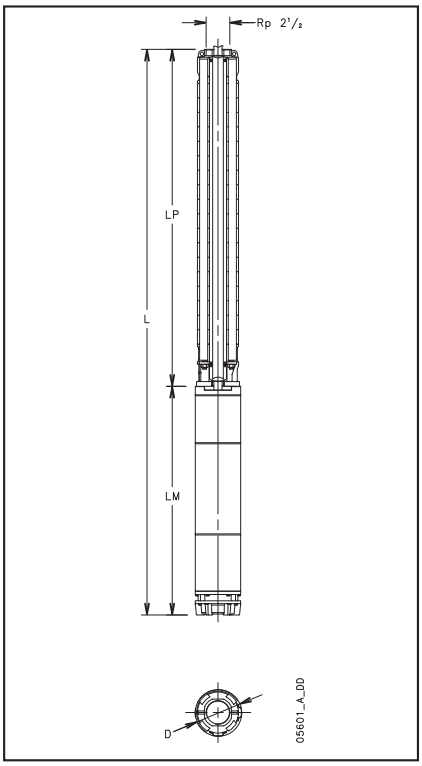
z616-1-50-en_a_td



Z616 SERIES, 19 TO 36 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z616 19-L6W	15	2041	833	1208	144	146	96
Z616 20-L6W	15	2087	833	1254	144	146	98
Z616 21-L6W	15	2133	833	1300	144	146	99
Z616 22-L6W	18,5	2249	903	1346	144	146	108
Z616 23-L6W	18,5	2341	903	1438	144	146	110
Z616 24-L6W	18,5	2387	903	1484	144	146	111
Z616 25-L6W	18,5	2433	903	1530	144	146	112
Z616 26-L6W	18,5	2479	903	1576	144	146	114
Z616 27-L6W	22	2565	943	1622	144	146	118
Z616 28-L6W	22	2611	943	1668	144	146	119
Z616 29-L6W	22	2657	943	1714	144	146	120
Z616 30-L6W	22	2703	943	1760	144	146	121
Z616 31-L6W	26	2877	1071	1806	144	146	132
Z616 32-L6W	26	2923	1071	1852	144	146	133
Z616 33-L6W	26	2969	1071	1898	144	146	134
Z616 34-L6W	26	3015	1071	1944	144	146	135
Z616 35-L6W	26	3061	1071	1990	144	146	136
Z616 36-L6W	26	3153	1071	2082	144	146	138

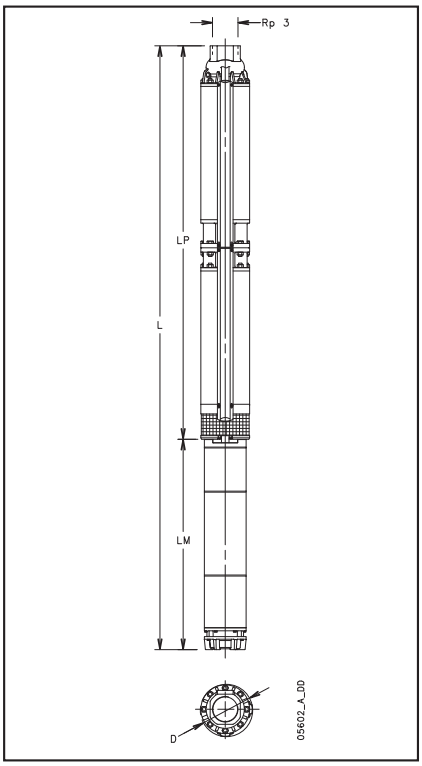
z616-2-50-en_a_td



Z616 SERIES, 37 TO 56 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z616 37D-L6W	30	3659	1151	2508	177	180	197
Z616 38D-L6W	30	3659	1151	2508	177	180	197
Z616 39D-L6W	30	4073	1151	2922	177	180	208
Z616 40D-L6W	30	4073	1151	2922	177	180	208
Z616 41D-L6W	30	4073	1151	2922	177	180	209
Z616 42D-L6W	30	4073	1151	2922	177	180	210
Z616 43D-L6W	37	4223	1301	2922	177	180	224
Z616 44D-L6W	37	4223	1301	2922	177	180	225
Z616 45D-L6W	37	4223	1301	2922	177	180	225
Z616 46D-L6W	37	4223	1301	2922	177	180	226
Z616 47D-L6W	37	4223	1301	2922	177	180	226
Z616 48D-L6W	37	4637	1301	3336	177	180	239
Z616 49D-L6W	37	4637	1301	3336	177	180	240
Z616 50D-L6W	37	4637	1301	3336	177	180	240
Z616 51D-L6W	37	4637	1301	3336	177	180	241
Z616 52D-L6W	37	4637	1301	3336	177	180	241
Z616 53D-L8W	45	4580	1195	3385	193	195	316
Z616 54D-L8W	45	4580	1195	3385	193	195	317
Z616 55D-L8W	45	4580	1195	3385	193	195	318
Z616 56D-L8W	45	4580	1195	3385	193	195	318

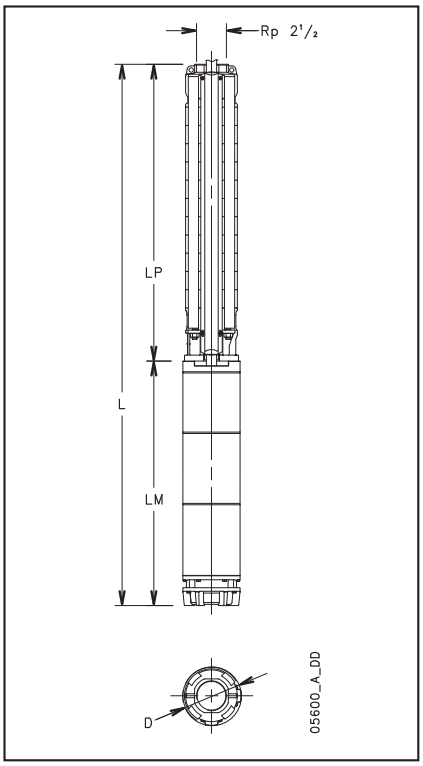
z616-3-50-en_a_td



Z622 SERIES, 1 TO 17 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z622 01-L4C	1,1	643	286	357	142	144	17
Z622 02-L4C	2,2	819	393	426	142	144	23
Z622 03-L4C	3	1039	544	495	142	144	32
Z622 04-L4C	4	1178	614	564	142	144	38
Z622 05-L4C	5,5	1317	684	633	142	144	42
Z622 06-L4C	7,5	1466	764	702	142	144	46
Z622 07-L4C	7,5	1535	764	771	142	144	47
Z622 04-L6W	4	1147	583	564	144	146	52
Z622 05-L6W	5,5	1246	613	633	144	146	57
Z622 06-L6W	7,5	1355	653	702	144	146	63
Z622 07-L6W	7,5	1424	653	771	144	146	64
Z622 08-L6W	9,3	1523	683	840	144	146	70
Z622 09-L6W	9,3	1592	683	909	144	146	71
Z622 10-L6W	11	1701	723	978	144	146	77
Z622 11-L6W	11	1770	723	1047	144	146	78
Z622 12-L6W	13	1879	763	1116	144	146	84
Z622 13-L6W	13	1948	763	1185	144	146	85
Z622 14-L6W	15	2087	833	1254	144	146	95
Z622 15-L6W	15	2156	833	1323	144	146	97
Z622 16-L6W	18,5	2295	903	1392	144	146	106
Z622 17-L6W	18,5	2364	903	1461	144	146	108

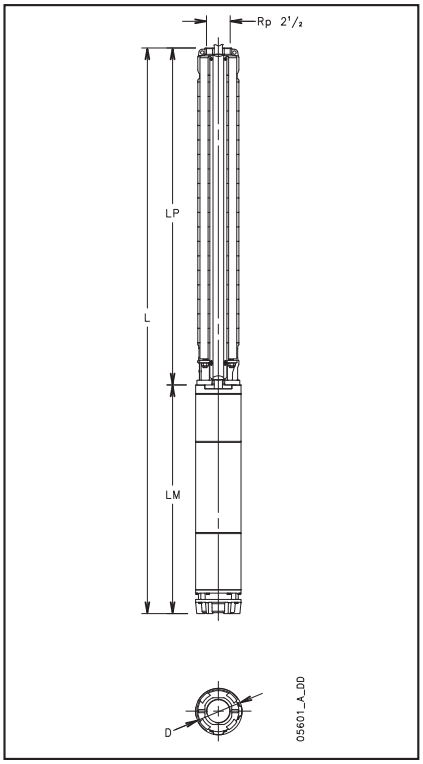
z622-1-50-en_a_td



Z622 SERIES, 18 TO 33 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z622 18-L6W	18,5	2433	903	1530	144	146	109
Z622 19-L6W	22	2542	943	1599	144	146	114
Z622 20-L6W	22	2611	943	1668	144	146	116
Z622 21-L6W	22	2680	943	1737	144	146	117
Z622 22-L6W	22	2749	943	1806	144	146	119
Z622 23-L6W	26	2946	1071	1875	144	146	129
Z622 24-L6W	26	3015	1071	1944	144	146	131
Z622 25-L6W	26	3084	1071	2013	144	146	133
Z622 26-L6W	26	3153	1071	2082	144	146	134
Z622 27-L6W	30	3302	1151	2151	144	146	144
Z622 28-L6W	30	3371	1151	2220	144	146	145
Z622 29-L6W	30	3440	1151	2289	144	146	147
Z622 30-L6W	30	3509	1151	2358	144	146	148
Z622 31-L6W	37	3728	1301	2427	144	146	164
Z622 32-L6W	37	3797	1301	2496	144	146	165
Z622 33-L6W	37	3866	1301	2565	144	146	167

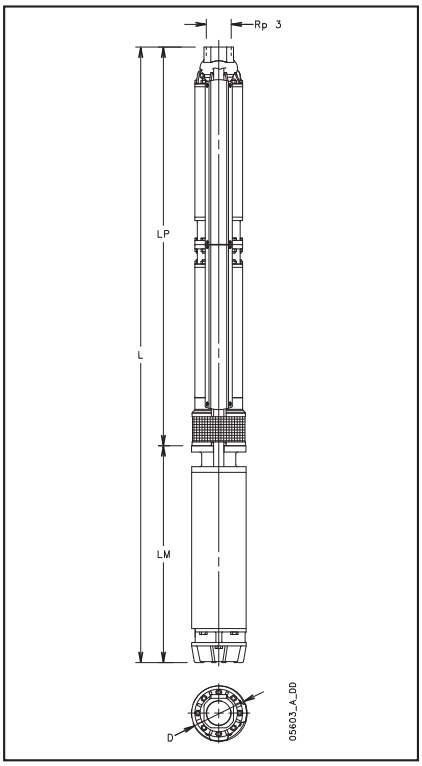
z622-2-50-en_a_td



Z622, 34 TO 50 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z622 34D-L6W	37	4223	1301	2922	177	180	221
Z622 35D-L6W	37	4637	1301	3336	177	180	233
Z622 36D-L6W	37	4637	1301	3336	177	180	234
Z622 37D-L6W	37	4637	1301	3336	177	180	235
Z622 38D-L8W	45	4580	1195	3385	193	195	310
Z622 39D-L8W	45	4580	1195	3385	193	195	311
Z622 40D-L8W	45	4580	1195	3385	193	195	311
Z622 41D-L8W	45	4718	1195	3523	193	195	315
Z622 42D-L8W	45	4718	1195	3523	193	195	316
Z622 43D-L8W	45	4856	1195	3661	193	195	321
Z622 44D-L8W	45	4856	1195	3661	193	195	321
Z622 45D-L8W	45	5063	1195	3868	193	195	327
Z622 46D-L8W	52	5153	1285	3868	193	195	348
Z622 47D-L8W	52	5153	1285	3868	193	195	348
Z622 48D-L8W	52	5360	1285	4075	193	195	355
Z622 49D-L8W	52	5360	1285	4075	193	195	356
Z622 50D-L8W	52	5360	1285	4075	193	195	357

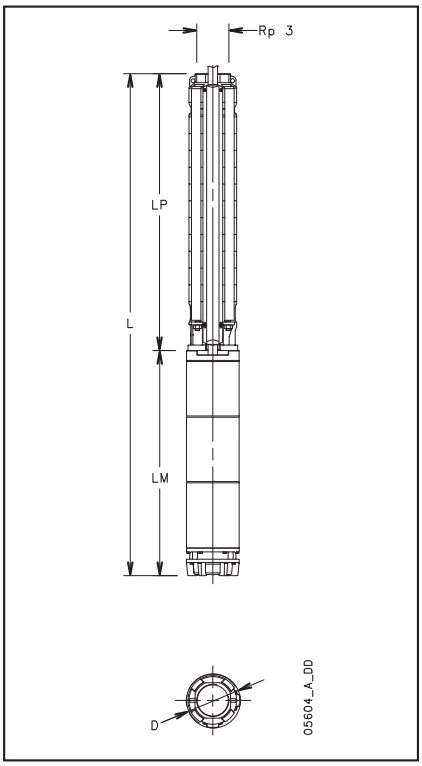
z622-3-50-en_a_td



Z631 SERIES, 1 TO 15 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z631 01-L4C	1,5	715	348	367	142	144	21
Z631 02-L4C	3	980	544	436	142	144	31
Z631 03-L4C	4	1119	614	505	142	144	35
Z631 04-L4C	5,5	1258	684	574	142	144	40
Z631 05-L4C	7,5	1407	764	643	142	144	44
Z631 06-L4C	7,5	1476	764	712	142	144	46
Z631 03-L6W	4	1088	583	505	144	146	50
Z631 04-L6W	5,5	1187	613	574	144	146	56
Z631 05-L6W	7,5	1296	653	643	144	146	61
Z631 06-L6W	7,5	1365	653	712	144	146	63
Z631 07-L6W	9,3	1464	683	781	144	146	67
Z631 08-L6W	11	1573	723	850	144	146	74
Z631 09-L6W	11	1642	723	919	144	146	75
Z631 10-L6W	13	1751	763	988	144	146	81
Z631 11-L6W	15	1890	833	1057	144	146	90
Z631 12-L6W	18,5	2029	903	1126	144	146	100
Z631 13-L6W	18,5	2098	903	1195	144	146	101
Z631 14-L6W	18,5	2167	903	1264	144	146	103
Z631 15-L6W	22	2276	943	1333	144	146	108

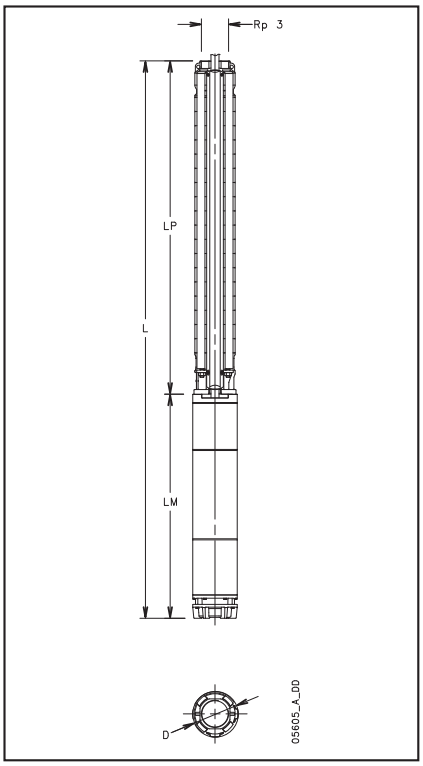
z631-1-50-en_a_td



Z631 SERIES, 16 TO 29 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z631 16-L6W	22	2345	943	1402	144	146	109
Z631 17-L6W	22	2414	943	1471	144	146	111
Z631 18-L6W	26	2611	1071	1540	144	146	121
Z631 19-L6W	26	2680	1071	1609	144	146	123
Z631 20-L6W	26	2749	1071	1678	144	146	124
Z631 21-L6W	30	2898	1151	1747	144	146	134
Z631 22-L6W	30	2967	1151	1816	144	146	136
Z631 23-L6W	30	3036	1151	1885	144	146	137
Z631 24-L6W	37	3255	1301	1954	144	146	153
Z631 25-L6W	37	3324	1301	2023	144	146	154
Z631 26-L6W	37	3393	1301	2092	144	146	156
Z631 27-L6W	37	3462	1301	2161	144	146	158
Z631 28-L6W	37	3531	1301	2230	144	146	159
Z631 29-L6W	37	3600	1301	2299	144	146	161

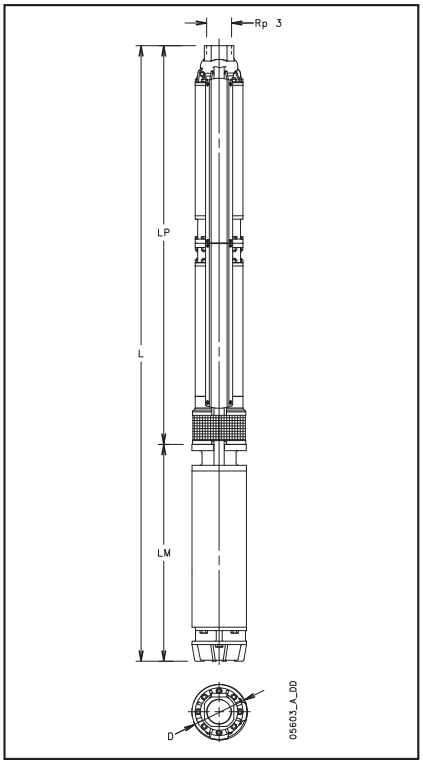
z631-2-50-en_a_td



Z631 SERIES, 30 TO 43 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z631 30D-L8W	45	4166	1195	2971	193	195	292
Z631 31D-L8W	45	4166	1195	2971	193	195	293
Z631 32D-L8W	45	4166	1195	2971	193	195	294
Z631 33D-L8W	45	4166	1195	2971	193	195	295
Z631 34D-L8W	45	4166	1195	2971	193	195	295
Z631 35D-L8W	45	4580	1195	3385	193	195	308
Z631 36D-L8W	52	4670	1285	3385	193	195	328
Z631 37D-L8W	52	4670	1285	3385	193	195	329
Z631 38D-L8W	52	4670	1285	3385	193	195	330
Z631 39D-L8W	52	4670	1285	3385	193	195	331
Z631 40D-L8W	52	4670	1285	3385	193	195	331
Z631 41D-L8W	52	4808	1285	3523	193	195	335
Z631 42D-L8W	55	4848	1325	3523	193	195	342
Z631 43D-L8W	55	4986	1325	3661	193	195	347

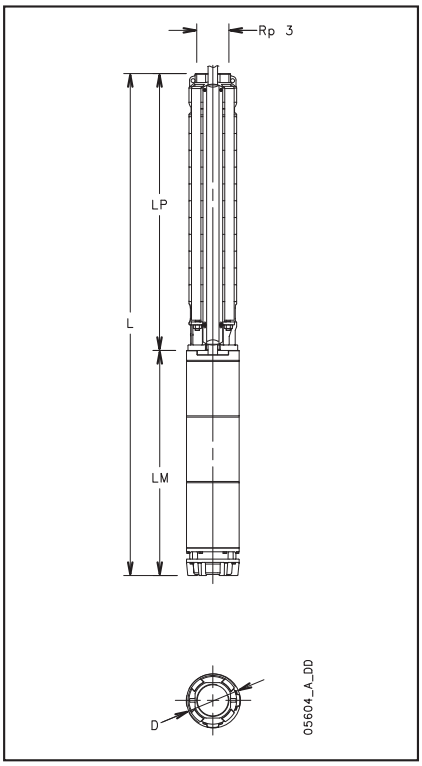
z631-3-50-en_a_td



Z646 SERIES, 1 TO 12 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z646 01-L4C	1,5	761	348	413	142	144	22
Z646 02-L4C	3	1072	544	528	142	144	32
Z646 03-L4C	5,5	1327	684	643	142	144	42
Z646 04-L4C	7,5	1522	764	758	142	144	46
Z646 05-L4C	7,5	1637	764	873	142	144	49
Z646 03-L6W	5,5	1256	613	643	144	146	57
Z646 04-L6W	7,5	1411	653	758	144	146	63
Z646 05-L6W	7,5	1526	653	873	144	146	66
Z646 06-L6W	9,3	1671	683	988	144	146	72
Z646 07-L6W	11	1826	723	1103	144	146	79
Z646 08-L6W	13	1981	763	1218	144	146	85
Z646 09-L6W	13	2096	763	1333	144	146	88
Z646 10-L6W	15	2281	833	1448	144	146	98
Z646 11-L6W	18,5	2466	903	1563	144	146	109
Z646 12-L6W	18,5	2581	903	1678	144	146	111

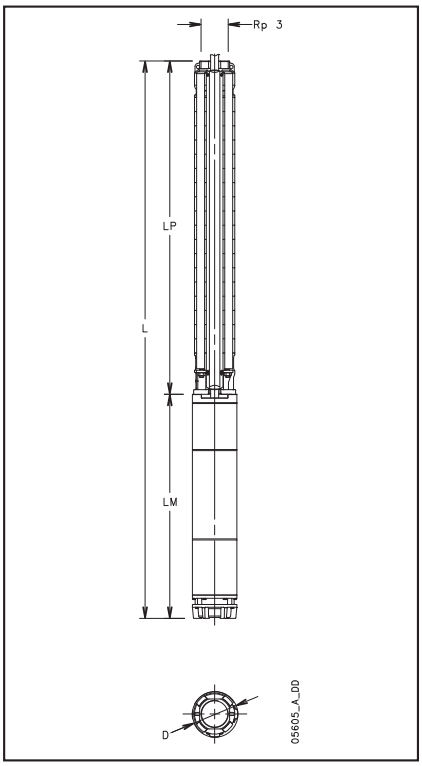
z646-1-50-en_a_td



Z646 SERIES, 13 TO 25 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z646 13-L6W	22	2736	943	1793	144	146	117
Z646 14-L6W	22	2851	943	1908	144	146	119
Z646 15-L6W	22	2966	943	2023	144	146	122
Z646 16-L6W	26	3209	1071	2138	144	146	133
Z646 17-L6W	26	3324	1071	2253	144	146	136
Z646 18-L6W	30	3519	1151	2368	144	146	146
Z646 19-L6W	30	3634	1151	2483	144	146	149
Z646 20-L6W	30	3749	1151	2598	144	146	151
Z646 21-L6W	37	4014	1301	2713	144	146	168
Z646 22-L6W	37	4129	1301	2828	144	146	170
Z646 23-L6W	37	4244	1301	2943	144	146	173
Z646 24-L6W	37	4359	1301	3058	144	146	175
Z646 25-L6W	37	4474	1301	3173	144	146	178

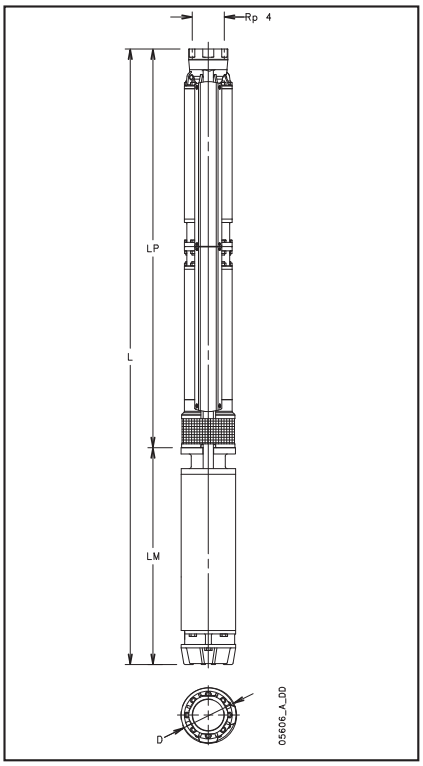
z646-2-50-en_a_td



Z646 SERIES, 26 TO 37 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z646 26D-L8W	45	4925	1195	3730	193	195	320
Z646 27D-L8W	45	4925	1195	3730	193	195	322
Z646 28D-L8W	45	5270	1195	4075	193	195	332
Z646 29D-L8W	45	5270	1195	4075	193	195	333
Z646 30D-L8W	45	5270	1195	4075	193	195	335
Z646 31D-L8W	45	5385	1195	4190	193	195	337
Z646 32D-L8W	52	5820	1285	4535	193	195	367
Z646 33D-L8W	52	5820	1285	4535	193	195	368
Z646 34D-L8W	52	5820	1285	4535	193	195	370
Z646 35D-L8W	52	6280	1285	4995	193	195	383
Z646 36D-L8W	52	6280	1285	4995	193	195	384
Z646 37D-L8W	55	6320	1325	4995	193	195	392

z646-3-50-en_a_td

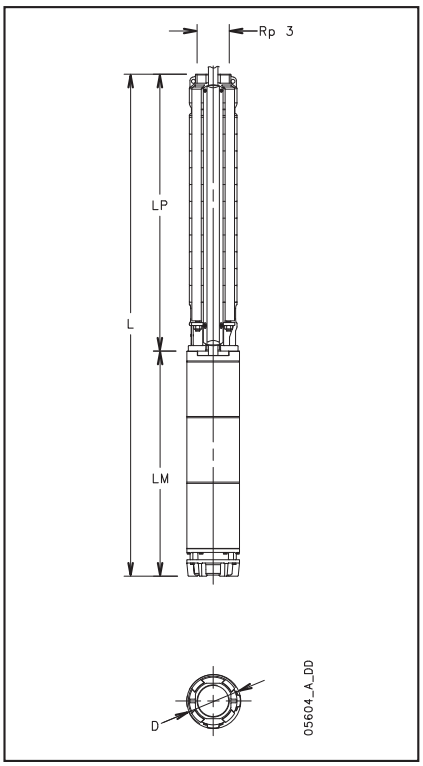


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Z660 SERIES, 1 TO 10 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 CableS	Kg
Z660 01-L4C	2,2	806	393	413	142	144	23
Z660 02-L4C	4	1142	614	528	142	144	36
Z660 03-L4C	5,5	1327	684	643	142	144	42
Z660 04-L4C	7,5	1522	764	758	142	144	46
Z660 02-L6W	4	1111	583	528	144	146	50
Z660 03-L6W	5,5	1256	613	643	144	146	57
Z660 04-L6W	7,5	1411	653	758	144	146	63
Z660 05-L6W	9,3	1556	683	873	144	146	70
Z660 06-L6W	11	1711	723	988	144	146	76
Z660 07-L6W	13	1866	763	1103	144	146	83
Z660 08-L6W	15	2051	833	1218	144	146	93
Z660 09-L6W	18,5	2236	903	1333	144	146	104
Z660 10-L6W	18,5	2351	903	1448	144	146	106

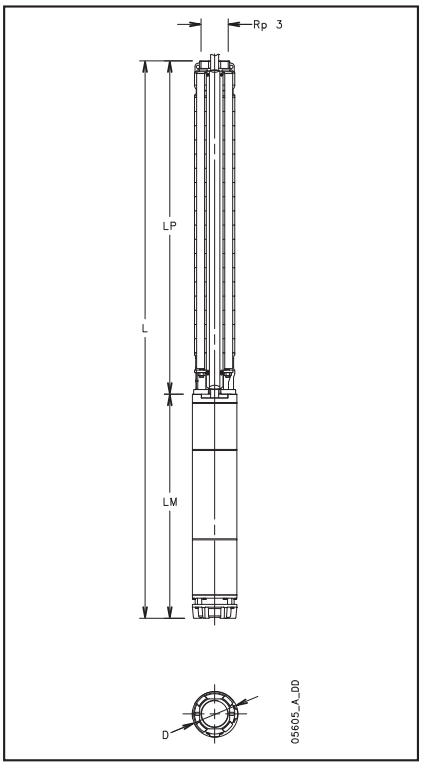
z660-1-50-en_a_td



Z660 SERIES, 11 TO 21 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z660 11-L6W	22	2506	943	1563	144	146	112
Z660 12-L6W	22	2621	943	1678	144	146	114
Z660 13-L6W	22	2736	943	1793	144	146	117
Z660 14-L6W	26	2979	1071	1908	144	146	128
Z660 15-L6W	26	3094	1071	2023	144	146	131
Z660 16-L6W	30	3289	1151	2138	144	146	141
Z660 17-L6W	30	3404	1151	2253	144	146	144
Z660 18-L6W	37	3669	1301	2368	144	146	160
Z660 19-L6W	37	3784	1301	2483	144	146	163
Z660 20-L6W	37	3899	1301	2598	144	146	165
Z660 21-L6W	37	4014	1301	2713	144	146	168

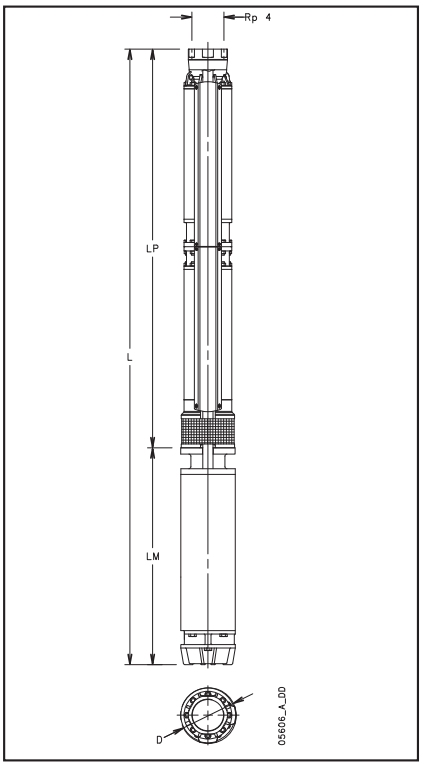
z660-2-50-en_a_td



Z660 SERIES, 22 TO 32 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	RATED POWER kW	DIMENSIONS (mm)					WEIGHT
		L	LM	LP	ø D		
					1 Cable	2 Cables	Kg
Z660 22D-L8W	45	4580	1195	3385	193	195	308
Z660 23D-L8W	45	4580	1195	3385	193	195	309
Z660 24D-L8W	45	4580	1195	3385	193	195	310
Z660 25D-L8W	45	4925	1195	3730	193	195	319
Z660 26D-L8W	45	4925	1195	3730	193	195	320
Z660 27D-L8W	52	5015	1285	3730	193	195	342
Z660 28D-L8W	52	5360	1285	4075	193	195	352
Z660 29D-L8W	52	5360	1285	4075	193	195	353
Z660 30D-L8W	52	5360	1285	4075	193	195	355
Z660 31D-L8W	55	5515	1325	4190	193	195	363
Z660 32D-L8W	55	5860	1325	4535	193	195	373

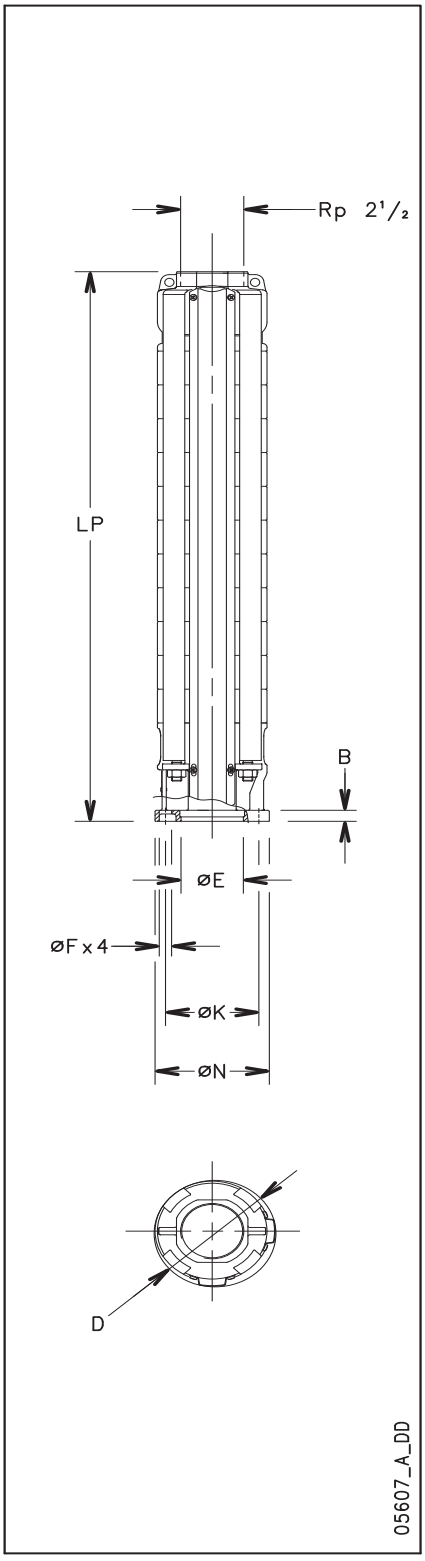
z660-3-50-en_a_td



Z612 PUMP SERIES, 1 TO 39 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm) LP	ø D 1 Cable	ø D 2 Cables	WEIGHT kg
Z612 01-4	0,5	380	142	144	9
Z612 02-4	1,0	426	142	144	10
Z612 03-4	1,4	472	142	144	12
Z612 04-4	1,9	518	142	144	13
Z612 05-4	2,4	564	142	144	14
Z612 06-4	2,9	610	142	144	15
Z612 07-4	3,4	656	142	144	16
Z612 08-4	3,9	702	142	144	17
Z612 09-4	4,4	748	142	144	19
Z612 10-4	4,8	794	142	144	20
Z612 11-4	5,3	840	142	144	21
Z612 12-4	5,8	886	142	144	22
Z612 13-4	6,3	932	142	144	23
Z612 14-4	6,7	978	142	144	24
Z612 15-4	7,2	1024	142	144	26
Z612 07-6	3,4	656	142	144	16
Z612 08-6	3,9	702	142	144	17
Z612 09-6	4,4	748	142	144	19
Z612 10-6	4,8	794	142	144	20
Z612 11-6	5,3	840	142	144	21
Z612 12-6	5,8	886	142	144	22
Z612 13-6	6,3	932	142	144	23
Z612 14-6	6,7	978	142	144	24
Z612 15-6	7,2	1024	142	144	26
Z612 16-6	7,7	1070	142	144	27
Z612 17-6	8,2	1116	142	144	28
Z612 18-6	8,7	1162	142	144	29
Z612 19-6	9,1	1208	142	144	30
Z612 20-6	9,6	1254	142	144	32
Z612 21-6	10,1	1300	142	144	33
Z612 22-6	10,6	1346	142	144	34
Z612 23-6	11,1	1438	142	144	36
Z612 24-6	11,5	1484	142	144	37
Z612 25-6	11,9	1530	142	144	38
Z612 26-6	12,4	1576	142	144	40
Z612 27-6	12,9	1622	142	144	41
Z612 28-6	13,4	1668	142	144	42
Z612 29-6	13,9	1714	142	144	43
Z612 30-6	14,3	1760	142	144	44
Z612 31-6	14,8	1806	142	144	46
Z612 32-6	15,3	1852	142	144	47
Z612 33-6	16,0	1898	142	144	48
Z612 34-6	16,3	1944	142	144	49
Z612 35-6	16,8	1990	142	144	50
Z612 36-6	17,3	2082	142	144	52
Z612 37-6	17,8	2128	142	144	54
Z612 38-6	18,2	2174	142	144	55
Z612 39-6	18,7	2220	142	144	56

z612p-2p50-en_b_td



Motor coupling

MOTOR	DIMENSIONS (mm) N	K	F	B	E H7
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2

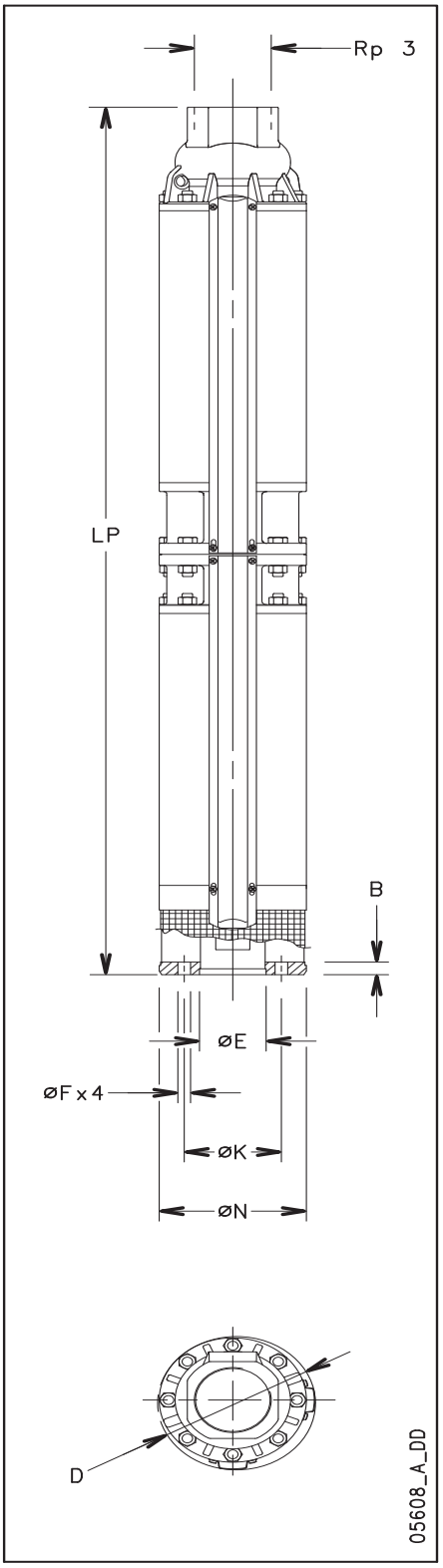
Coupling 4" and 6" according to NEMA standards

z6-mtcn-2p50-en_a_td

Z612 PUMP SERIES, 40 TO 60 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z612 40D-6	19,2	2922	177	180	114
Z612 41D-6	19,7	2922	177	180	115
Z612 42D-6	20,2	2922	177	180	116
Z612 43D-6	20,6	2922	177	180	116
Z612 44D-6	21,1	2922	177	180	117
Z612 45D-6	21,6	2922	177	180	117
Z612 46D-6	22,1	2922	177	180	118
Z612 47D-6	22,6	2922	177	180	118
Z612 48D-6	23,0	3336	177	180	131
Z612 49D-6	23,6	3336	177	180	132
Z612 50D-6	24,0	3336	177	180	132
Z612 51D-6	24,5	3336	177	180	133
Z612 52D-6	24,9	3336	177	180	133
Z612 53D-6	25,4	3336	177	180	134
Z612 54D-6	25,9	3336	177	180	135
Z612 55D-6	26,4	3336	177	180	135
Z612 56D-6	26,9	3336	177	180	136
Z612 57D-6	27,3	3474	177	180	140
Z612 58D-6	27,8	3474	177	180	140
Z612 59D-6	28,3	3474	177	180	141
Z612 60D-6	28,8	3612	177	180	145

z612pl-2p50-en_b_td



Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
6" (NEMA)	168	111,1	14,5	17	76,2

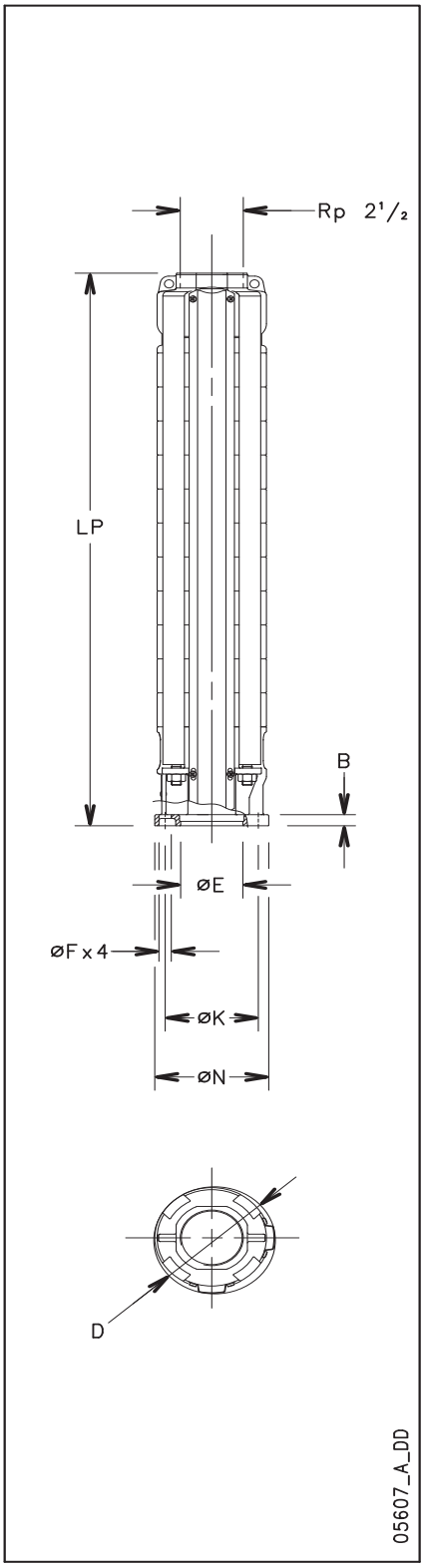
Coupling 6" according to NEMA standards

z6a-mtcn-2p50-en_a_td

Z616 PUMP SERIES, 1 TO 36 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z616 01-4	0,8	380	142	144	9
Z616 02-4	1,7	426	142	144	10
Z616 03-4	2,5	472	142	144	12
Z616 04-4	3,0	518	142	144	13
Z616 05-4	3,8	564	142	144	14
Z616 06-4	4,5	610	142	144	15
Z616 07-4	5,2	656	142	144	16
Z616 08-4	5,9	702	142	144	17
Z616 09-4	6,6	748	142	144	19
Z616 10-4	7,3	794	142	144	20
Z616 05-6	3,8	564	142	144	14
Z616 06-6	4,5	610	142	144	15
Z616 07-6	5,2	656	142	144	16
Z616 08-6	5,9	702	142	144	17
Z616 09-6	6,6	748	142	144	19
Z616 10-6	7,3	794	142	144	20
Z616 11-6	8,1	840	142	144	21
Z616 12-6	8,6	886	142	144	22
Z616 13-6	9,3	932	142	144	23
Z616 14-6	10,0	978	142	144	24
Z616 15-6	10,8	1024	142	144	26
Z616 16-6	11,5	1070	142	144	27
Z616 17-6	12,3	1116	142	144	28
Z616 18-6	13,1	1162	142	144	29
Z616 19-6	13,8	1208	142	144	30
Z616 20-6	14,3	1254	142	144	32
Z616 21-6	15,0	1300	142	144	33
Z616 22-6	15,7	1346	142	144	34
Z616 23-6	16,4	1438	142	144	36
Z616 24-6	17,1	1484	142	144	37
Z616 25-6	17,9	1530	142	144	38
Z616 26-6	18,6	1576	142	144	40
Z616 27-6	19,3	1622	142	144	41
Z616 28-6	20,0	1668	142	144	42
Z616 29-6	20,7	1714	142	144	43
Z616 30-6	21,4	1760	142	144	44
Z616 31-6	22,1	1806	142	144	46
Z616 32-6	22,8	1852	142	144	47
Z616 33-6	23,5	1898	142	144	48
Z616 34-6	24,2	1944	142	144	49
Z616 35-6	25,0	1990	142	144	50
Z616 36-6	25,7	2082	142	144	52

z616p-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2

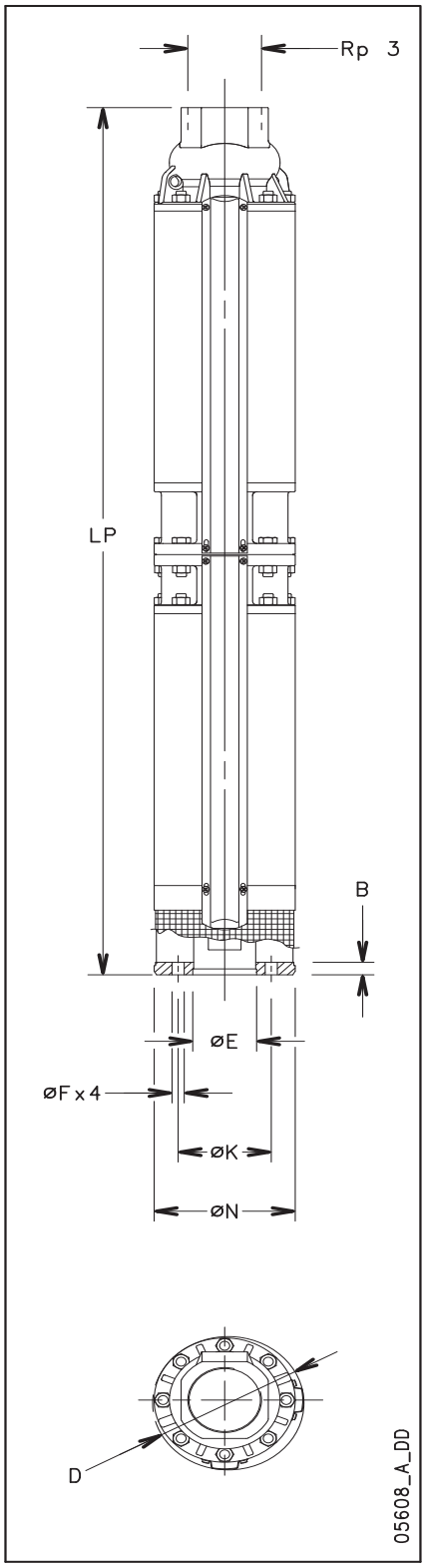
Coupling 4" and 6" according to NEMA standards

z6-mtcn-2p50-en_a_td

Z616 PUMP SERIES, 37 TO 56 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 min kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z616 37D-6	26,4	2508	177	180	103
Z616 38D-6	27,1	2508	177	180	103
Z616 39D-6	27,8	2922	177	180	114
Z616 40D-6	28,5	2922	177	180	114
Z616 41D-6	29,3	2922	177	180	115
Z616 42D-6	30,0	2922	177	180	116
Z616 43D-6	30,6	2922	177	180	116
Z616 44D-6	31,4	2922	177	180	117
Z616 45D-6	32,1	2922	177	180	117
Z616 46D-6	32,8	2922	177	180	118
Z616 47D-6	33,5	2922	177	180	118
Z616 48D-6	34,3	3336	177	180	131
Z616 49D-6	35,0	3336	177	180	132
Z616 50D-6	35,7	3336	177	180	132
Z616 51D-6	36,4	3336	177	180	133
Z616 52D-6	37,2	3336	177	180	133
Z616 53D-8	37,8	3385	193	195	136
Z616 54D-8	38,6	3385	193	195	137
Z616 55D-8	39,3	3385	193	195	138
Z616 56D-8	40,0	3385	193	195	138

z616pl-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
6" (NEMA)	168	111,1	14,5	17	76,2
8" (NEMA)	188	152,4	17,5	18	127

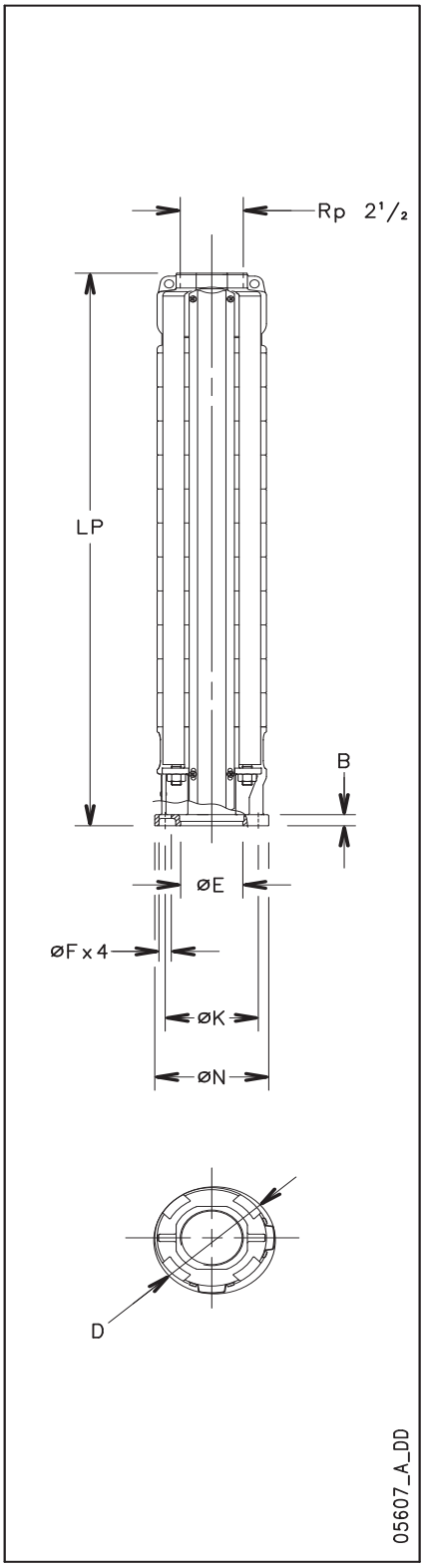
Coupling 6" and 8" according to NEMA standards

z6b-mtcn-2p50-en_a_td

Z622 PUMP SERIES, 1 TO 33 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z622 01-4	1,1	357	142	144	9
Z622 02-4	2,1	426	142	144	10
Z622 03-4	3,1	495	142	144	12
Z622 04-4	4,1	564	142	144	14
Z622 05-4	5,2	633	142	144	15
Z622 06-4	6,1	702	142	144	17
Z622 07-4	7,1	771	142	144	18
Z622 04-6	4,1	564	142	144	14
Z622 05-6	5,2	633	142	144	15
Z622 06-6	6,1	702	142	144	17
Z622 07-6	7,1	771	142	144	18
Z622 08-6	8,0	840	142	144	20
Z622 09-6	9,0	909	142	144	21
Z622 10-6	10,2	978	142	144	23
Z622 11-6	11,2	1047	142	144	24
Z622 12-6	12,3	1116	142	144	26
Z622 13-6	13,3	1185	142	144	27
Z622 14-6	14,2	1254	142	144	29
Z622 15-6	15,2	1323	142	144	31
Z622 16-6	16,3	1392	142	144	32
Z622 17-6	17,4	1461	142	144	34
Z622 18-6	18,4	1530	142	144	35
Z622 19-6	19,4	1599	142	144	37
Z622 20-6	20,4	1668	142	144	39
Z622 21-6	21,4	1737	142	144	40
Z622 22-6	22,4	1806	142	144	42
Z622 23-6	23,4	1875	142	144	43
Z622 24-6	24,5	1944	142	144	45
Z622 25-6	25,5	2013	142	144	47
Z622 26-6	26,5	2082	142	144	48
Z622 27-6	27,2	2151	142	144	50
Z622 28-6	28,2	2220	142	144	51
Z622 29-6	29,2	2289	142	144	53
Z622 30-6	30,2	2358	142	144	54
Z622 31-6	31,5	2427	142	144	56
Z622 32-6	32,5	2496	142	144	57
Z622 33-6	33,5	2565	142	144	59

z622p-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2

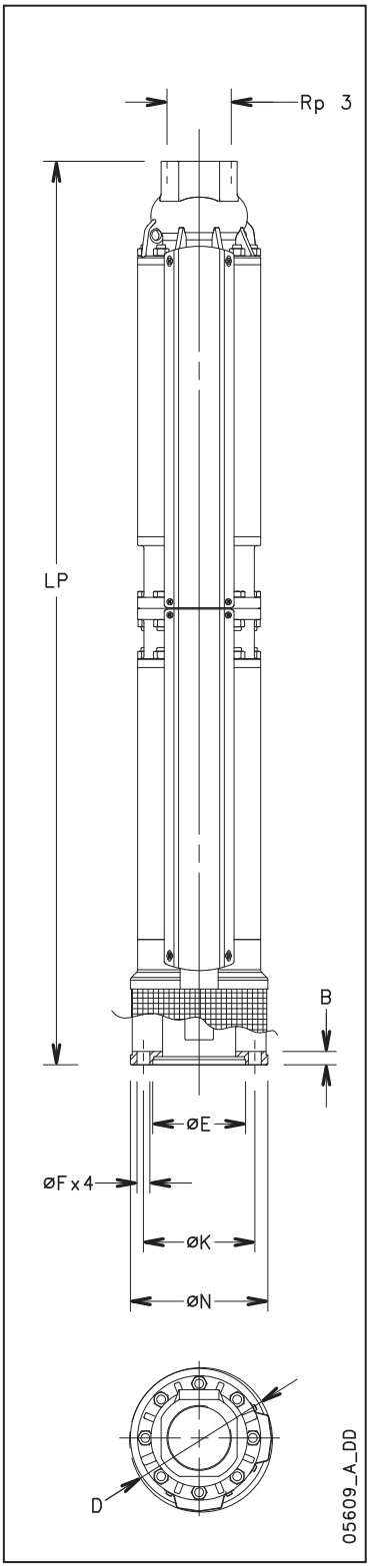
Coupling 4" and 6" according to NEMA standards

z6-mtcn-2p50-en_a_td

Z622 PUMP SERIES, 34 TO 50 STAGES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z622 34D-6	34,5	2922	177	180	113
Z622 35D-6	35,6	3336	177	180	125
Z622 36D-6	36,6	3336	177	180	126
Z622 37D-6	37,6	3336	177	180	127
Z622 38D-8	38,6	3385	193	195	130
Z622 39D-8	39,6	3385	193	195	131
Z622 40D-8	40,6	3385	193	195	131
Z622 41D-8	41,7	3523	193	195	135
Z622 42D-8	42,7	3523	193	195	136
Z622 43D-8	43,7	3661	193	195	141
Z622 44D-8	44,7	3661	193	195	141
Z622 45D-8	45,7	3868	193	195	147
Z622 46D-8	46,7	3868	193	195	148
Z622 47D-8	47,8	3868	193	195	148
Z622 48D-8	48,8	4075	193	195	155
Z622 49D-8	49,8	4075	193	195	156
Z622 50D-8	50,8	4075	193	195	157

z622pl-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
6" (NEMA)	168	111,1	14,5	17	76,2
8" (NEMA)	188	152,4	17,5	18	127

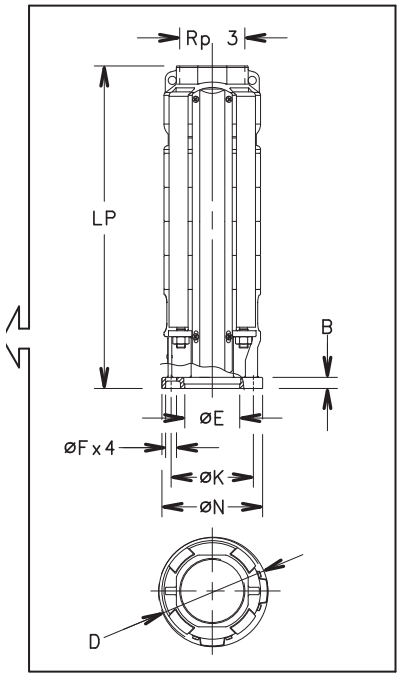
Coupling 6" and 8" according to NEMA standards

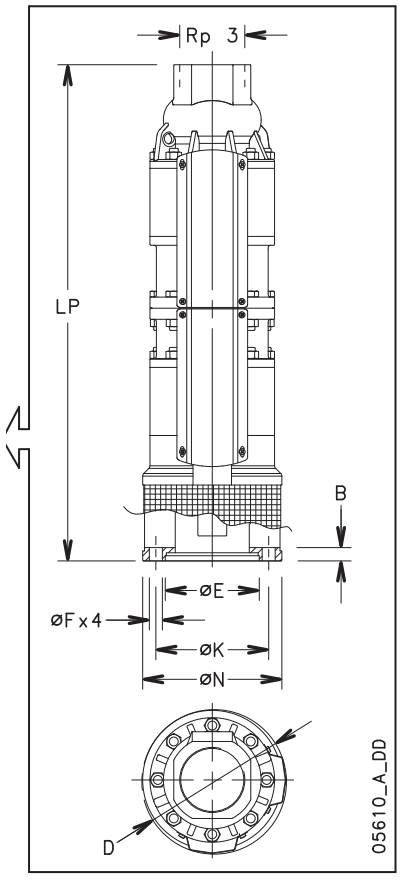
z6b-mtcn-2p50-en_a_td

Z631 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm) LP	ø D 1 Cable	ø D 2 Cables	WEIGHT kg
Z631 01-4	1,3	367	142	144	9
Z631 02-4	2,6	436	142	144	10
Z631 03-4	3,9	505	142	144	12
Z631 04-4	5,2	574	142	144	14
Z631 05-4	6,6	643	142	144	15
Z631 06-4	7,8	712	142	144	17
Z631 03-6	3,9	505	142	144	12
Z631 04-6	5,2	574	142	144	14
Z631 05-6	6,6	643	142	144	15
Z631 06-6	7,8	712	142	144	17
Z631 07-6	9,2	781	142	144	18
Z631 08-6	10,5	850	142	144	20
Z631 09-6	11,7	919	142	144	21
Z631 10-6	13,0	988	142	144	23
Z631 11-6	14,3	1057	142	144	24
Z631 12-6	15,7	1126	142	144	26
Z631 13-6	17,0	1195	142	144	27
Z631 14-6	18,3	1264	142	144	29
Z631 15-6	19,6	1333	142	144	31
Z631 16-6	20,9	1402	142	144	32
Z631 17-6	22,0	1471	142	144	34
Z631 18-6	23,2	1540	142	144	35
Z631 19-6	24,5	1609	142	144	37
Z631 20-6	25,8	1678	142	144	38
Z631 21-6	27,1	1747	142	144	40
Z631 22-6	28,4	1816	142	144	42
Z631 23-6	30,1	1885	142	144	43
Z631 24-6	31,6	1954	142	144	45
Z631 25-6	32,7	2023	142	144	46
Z631 26-6	34,0	2092	142	144	48
Z631 27-6	35,3	2161	142	144	50
Z631 28-6	36,7	2230	142	144	51
Z631 29-6	38,0	2299	142	144	53
Z631 30D-8	39,3	2971	193	195	112
Z631 31D-8	40,6	2971	193	195	113
Z631 32D-8	41,9	2971	193	195	114
Z631 33D-8	43,2	2971	193	195	115
Z631 34D-8	44,5	2971	193	195	115
Z631 35D-8	45,8	3385	193	195	128
Z631 36D-8	47,1	3385	193	195	128
Z631 37D-8	48,4	3385	193	195	129
Z631 38D-8	49,7	3385	193	195	130
Z631 39D-8	51,1	3385	193	195	131
Z631 40D-8	52,4	3385	193	195	131
Z631 41D-8	53,7	3523	193	195	135
Z631 42D-8	55,0	3523	193	195	136
Z631 43D-8	56,3	3661	193	195	141

z631p-2p50-en_a_td





Motor coupling

MOTOR	DIMENSIONS (mm) N	K	F	B	E H7
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2
8" (NEMA)	188	152,4	17,5	18	127

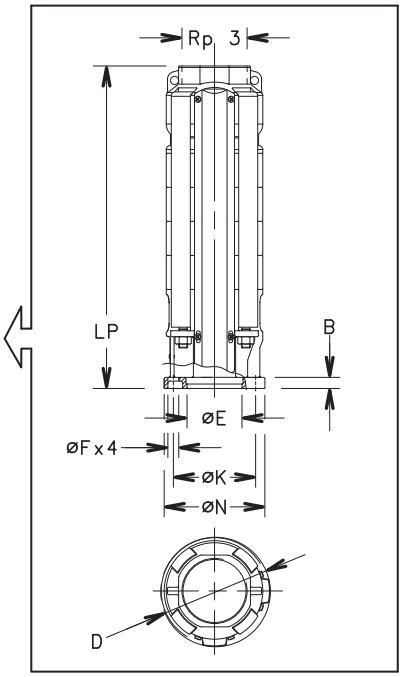
Coupling 4" - 6" and 8" according to NEMA standards

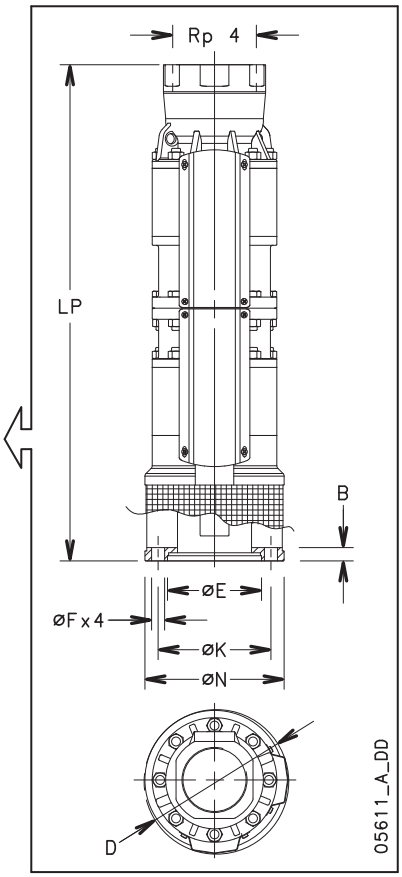
z6c-mtcn-2p50-en_a_td

Z646 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z646 01-4	1,5	413	142	144	10
Z646 02-4	3,0	528	142	144	12
Z646 03-4	4,5	643	142	144	15
Z646 04-4	6,0	758	142	144	17
Z646 05-4	7,5	873	142	144	20
Z646 03-6	4,5	643	142	144	15
Z646 04-6	6,0	758	142	144	17
Z646 05-6	7,5	873	142	144	20
Z646 06-6	9,0	988	142	144	22
Z646 07-6	10,5	1103	142	144	25
Z646 08-6	12,0	1218	142	144	27
Z646 09-6	13,5	1333	142	144	30
Z646 10-6	15,0	1448	142	144	32
Z646 11-6	16,5	1563	142	144	35
Z646 12-6	18,0	1678	142	144	37
Z646 13-6	19,5	1793	142	144	40
Z646 14-6	21,0	1908	142	144	42
Z646 15-6	22,5	2023	142	144	45
Z646 16-6	24,1	2138	142	144	47
Z646 17-6	25,6	2253	142	144	50
Z646 18-6	27,1	2368	142	144	52
Z646 19-6	28,6	2483	142	144	55
Z646 20-6	30,1	2598	142	144	57
Z646 21-6	31,6	2713	142	144	60
Z646 22-6	33,1	2828	142	144	62
Z646 23-6	34,6	2943	142	144	65
Z646 24-6	36,1	3058	142	144	67
Z646 25-6	37,6	3173	142	144	70
Z646 26D-8	39,1	3730	193	195	140
Z646 27D-8	40,6	3730	193	195	142
Z646 28D-8	42,1	4075	193	195	152
Z646 29D-8	43,6	4075	193	195	153
Z646 30D-8	45,1	4075	193	195	155
Z646 31D-8	46,6	4190	193	195	157
Z646 32D-8	48,1	4535	193	195	167
Z646 33D-8	49,6	4535	193	195	168
Z646 34D-8	51,1	4535	193	195	170
Z646 35D-8	52,6	4995	193	195	183
Z646 36D-8	54,1	4995	193	195	184
Z646 37D-8	55,6	4995	193	195	186

z646p-2p50-en_a_td





Motor coupling

MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E H7
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2
8" (NEMA)	188	152,4	17,5	18	127

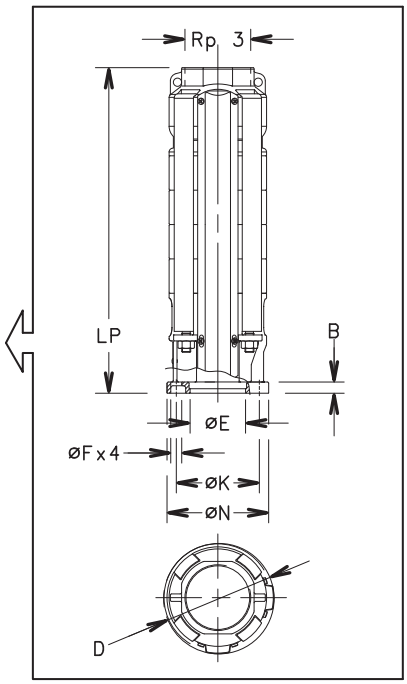
Coupling 4" - 6" and 8" according to NEMA standards

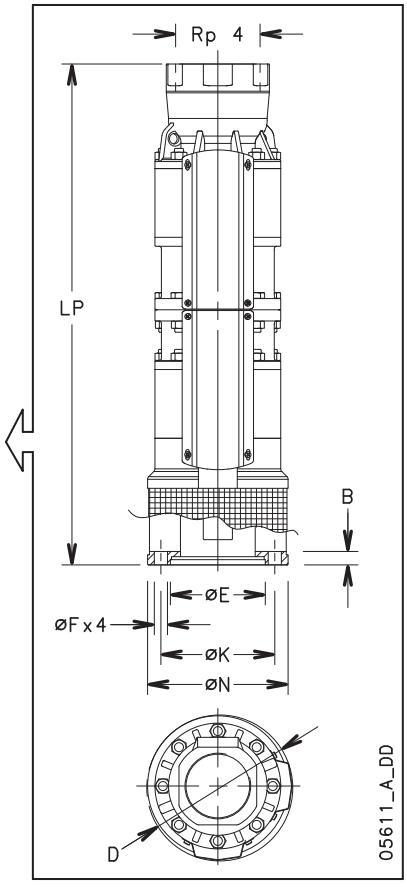
z6c-mtcn-2p50-en_a_td

Z631 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX PUMP POWER at 2900 min^{-1} kW	DIMENSIONS (mm)			WEIGHT
			ø D		
		LP	1 Cable	2 Cables	kg
Z660 01-4	1,8	413	142	144	10
Z660 02-4	3,5	528	142	144	12
Z660 03-4	5,3	643	142	144	15
Z660 04-4	7,1	758	142	144	17
Z660 02-6	3,5	528	142	144	12
Z660 03-6	5,3	643	142	144	15
Z660 04-6	7,1	758	142	144	17
Z660 05-6	8,8	873	142	144	20
Z660 06-6	10,6	988	142	144	22
Z660 07-6	12,4	1103	142	144	25
Z660 08-6	14,2	1218	142	144	27
Z660 09-6	15,9	1333	142	144	30
Z660 10-6	17,7	1448	142	144	32
Z660 11-6	19,5	1563	142	144	35
Z660 12-6	21,2	1678	142	144	37
Z660 13-6	23,0	1793	142	144	40
Z660 14-6	24,8	1908	142	144	42
Z660 15-6	26,5	2023	142	144	45
Z660 16-6	28,3	2138	142	144	47
Z660 17-6	30,1	2253	142	144	50
Z660 18-6	31,8	2368	142	144	52
Z660 19-6	33,6	2483	142	144	55
Z660 20-6	35,4	2598	142	144	57
Z660 21-6	37,1	2713	142	144	60
Z660 22D-8	38,9	3385	193	195	128
Z660 23D-8	40,7	3385	193	195	129
Z660 24D-8	42,4	3385	193	195	130
Z660 25D-8	44,2	3730	193	195	139
Z660 26D-8	46,0	3730	193	195	140
Z660 27D-8	47,8	3730	193	195	142
Z660 28D-8	49,5	4075	193	195	152
Z660 29D-8	51,3	4075	193	195	153
Z660 30D-8	53,1	4075	193	195	155
Z660 31D-8	54,8	4190	193	195	157
Z660 32D-8	56,6	4535	193	195	167

z660p-2p50-en_a_td





Motor coupling

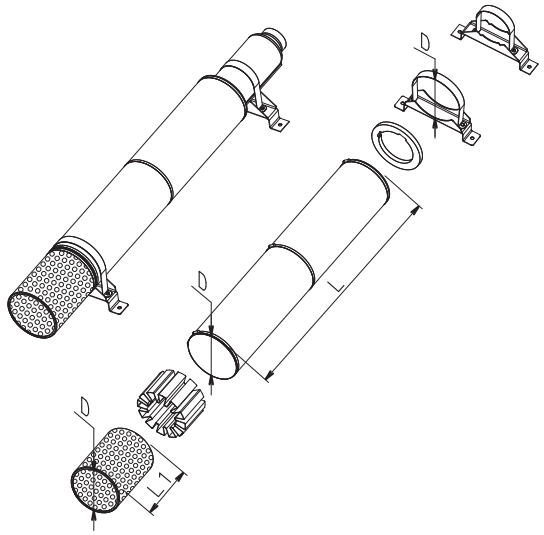
MOTOR	DIMENSIONS (mm)				
	N	K	F	B	E ^{H7}
4" (NEMA)	130	76,2	9,5	10,5	87,3
6" (NEMA)	136	111,1	14,5	15	76,2
8" (NEMA)	188	152,4	17,5	18	127

Coupling 4" - 6" and 8" according to NEMA standards

z6c-mtcn-2p50-en_a_td

Cooling shrouds

01890_B_DD



Z6 SERIES pump and 4" and 6" motor selection table

PUMP TYPE	MOTOR TYPE 4OS/B	L4C	L6C	L6W	COOLING SET SHROUD (D x L)	COOLING SET FILTER (D x L1)	COOLING SET BRACKETS (D)
Z612 Z616 Z622 Z631 Z646	0,55	0,55			D160X800	D160X158	D160 - 2pcs
	0,75	0,75					
	1,1	1,1					
	1,5	1,5					
	2,2	2,2					
	3	3					
	4	4					
	5,5	5,5			D160X1000	D160X158	D160 - 2pcs
	7,5	7,5					
Z660	4	4			D180X1000	D180X192	D180 - 2pcs
	5,5	5,5					
	7,5	7,5					
Z612 Z616 Z622 Z631 Z646			3	3	D180X1000	D180X192	D180 - 2pcs
			4	4			
			5,5	5,5			
			7,5	7,5			
			9,3	9,3			
			11	11			
			-	13			
			15	15			
			18,5	18,5			
			22	22	D180X1500	D180X192	D180 - 3pcs
			-	26			
			30	30			
			37	37			
Z660			4	4	D200X1000	D200X192	D200 - 2pcs
			5,5	5,5			
			7,5	7,5			
			9,3	9,3			
			11	11			
			-	13			
			15	15			
			18,5	18,5			
			22	22	D200X1500	D200X192	D200 - 3pcs
			-	26			
			30	30			
			37	37			

Note: Not available for high pressure version.

z6_kit-raf50-en_b_ta

Z-ZR 8″ Series

Multi-stage centrifugal submersible pumps for clean water in 8″ wells. Made of AISI 304 or DUPLEX stainless steel. This robust and lightweight pump is easy to disassemble and, its the standard configuration, resists corrosion in non-aggressive atmospheres . The guide bearings and wear rings assure high resistance to wear and constantly reliability of hydraulic characteristics over time. Can be coupled to all NEMA-standard motors.

Specifications

Delivery: up to 180 m^3/h
Head: up to 550 metres
Power supply: three-phase
50 and 60 Hz
Three-phase version: 380-415 V;
overload protection to be provided by user and installed in the control box (see control box section)
Power: 5.5 kW to 150 kW
Maximum pump overall
diameter (cable cover included): 198 mm
Water temperature: 0°C to +30°C
Maximum permissible quantity
of suspended sand: 100 g/m^3

Materials

Delivery head/valve casing: Stainless steel
Diffuser: Stainless steel
Impeller: Stainless steel
Taperlock: Duplex stainless steel
Suction screen: Stainless steel
Pump shaft: Stainless steel
ZR version: cast parts in DUPLEX

Applications

Water distribution in civil and industrial systems

Pressure boosting

Irrigation

Fire-fighting

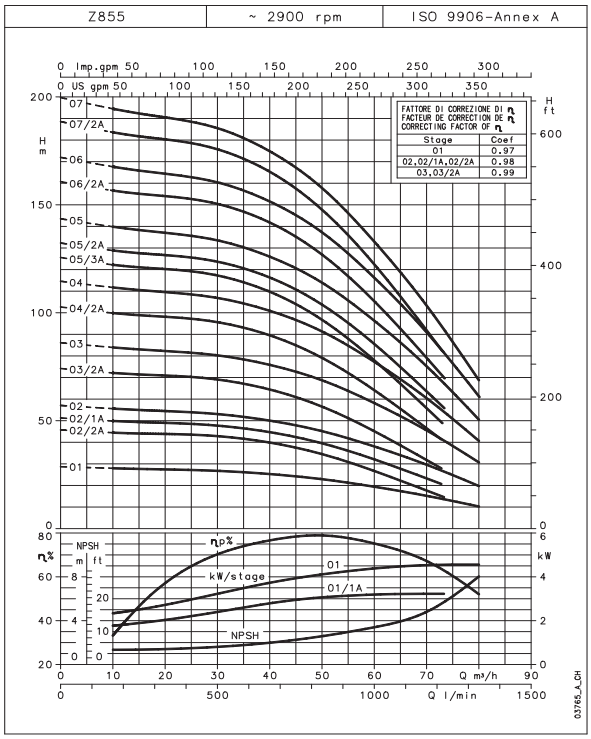
Mining industry

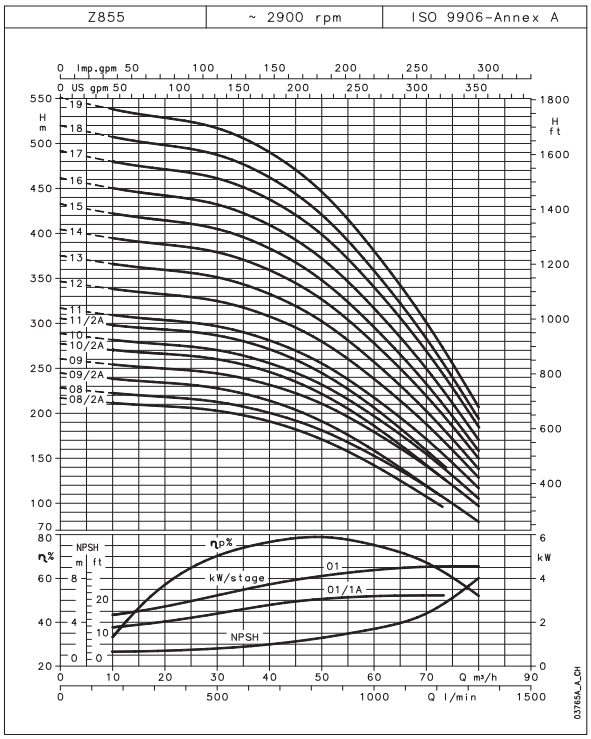
Groundwater level control

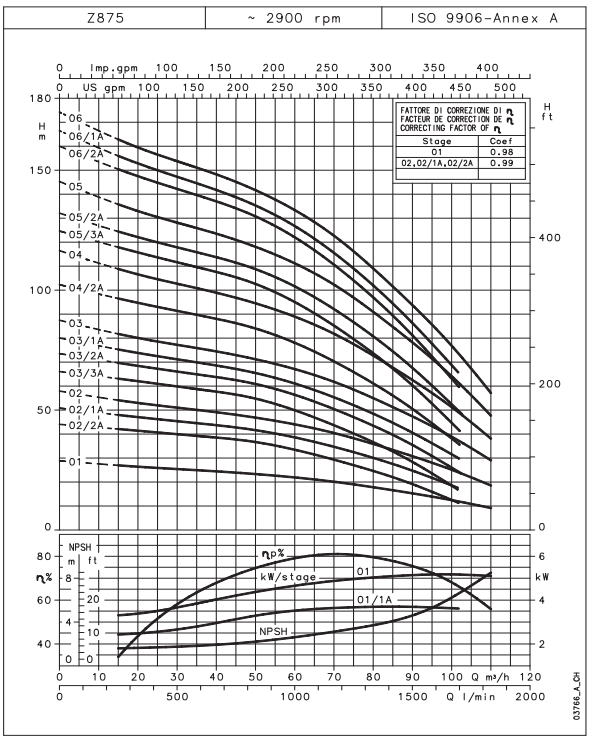


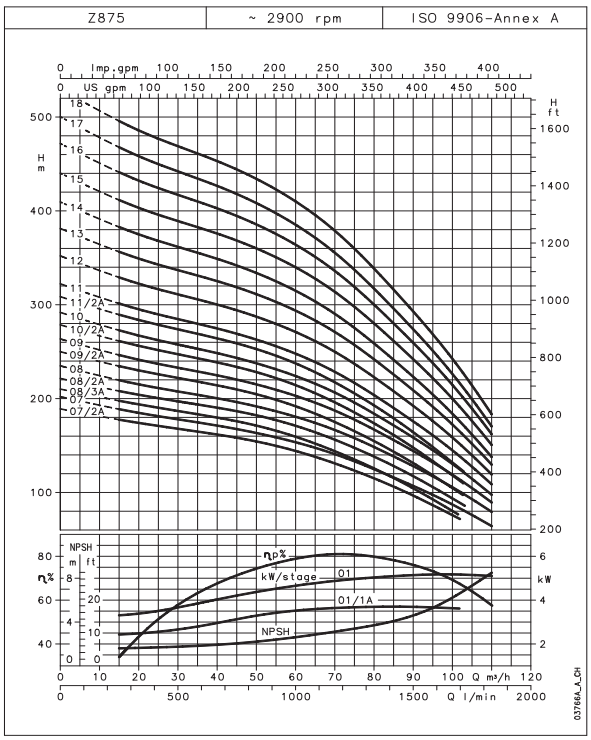
For a complete list of technical information, consult www.lowara.com

Z8 SERIES
Hydraulic performance table at 50 Hz



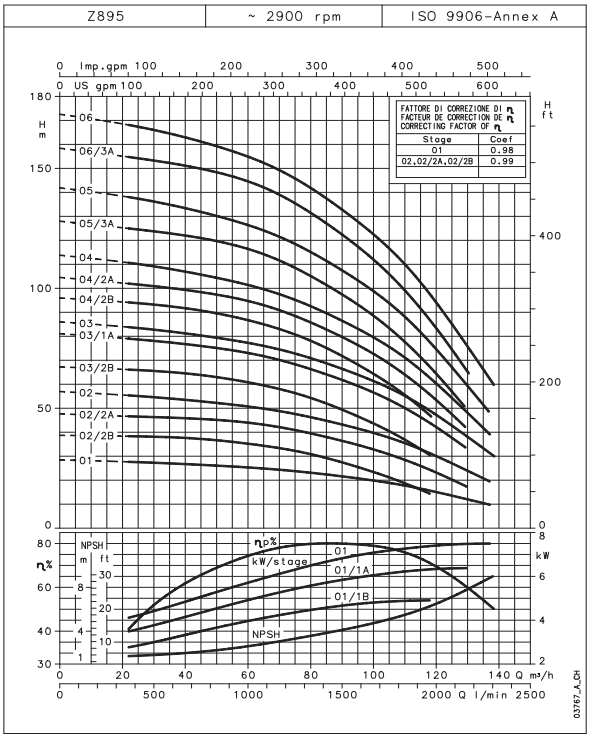


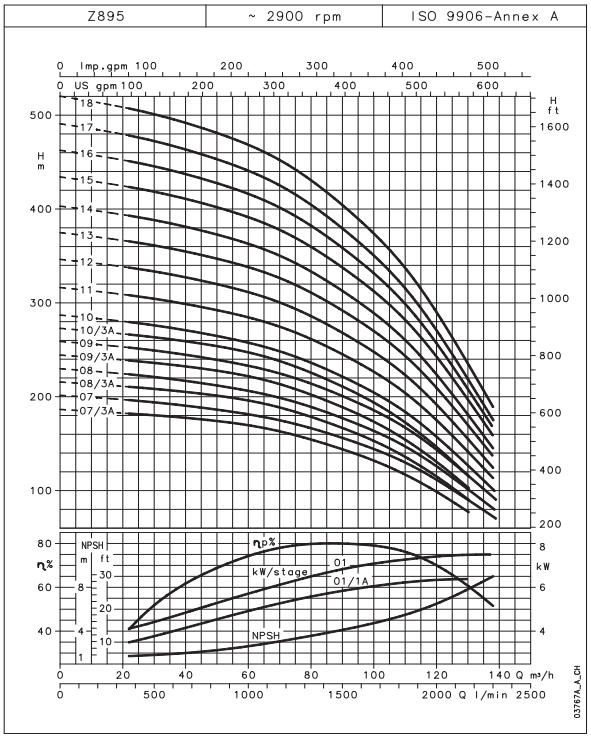


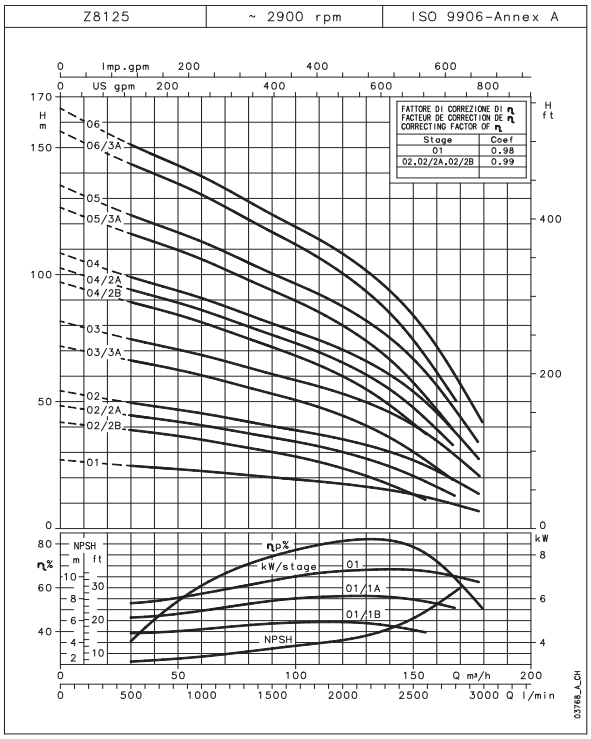


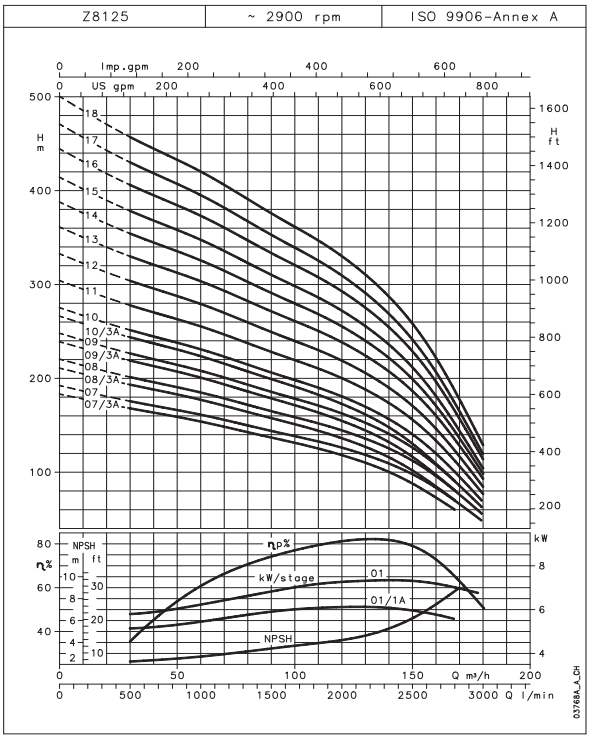
These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

Z8 SERIES
Hydraulic performance table at 50 Hz







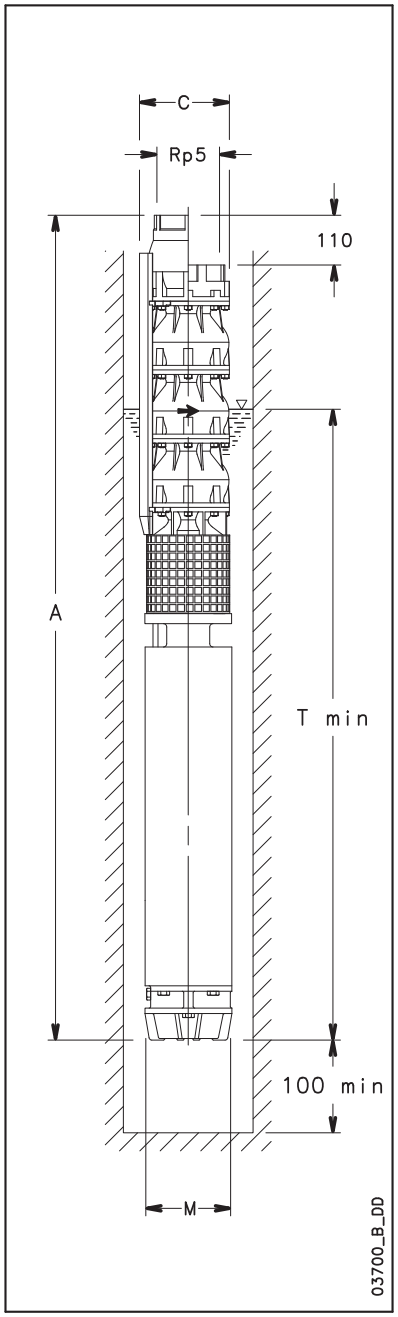


These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z855 SERIES, 1 TO 7 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP WEIGHT
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z855 01-L6W	1173	200	144	1613	68,6
Z855 02/2A-L6W	1348	200	144	1653	81,2
Z855 02/1A-L6W	1348	200	144	1653	81,2
Z855 02-L6W	1378	200	144	1683	85,2
Z855 03/2A-L6W	1553	200	144	1723	97,9
Z855 03-L6W	1663	200	144	1833	109,9
Z855 04/2A-L6W	1798	200	144	1833	118,5
Z855 04-L6W	1868	200	144	1903	126,5
Z855 05/3A-L6W	2003	200	144	1903	135,2
Z855 05/2A-L6W	2043	200	144	1943	138,2
Z855 05-L6W	2043	200	144	1943	138,2
Z855 06/2A-L6W	2306	200	144	2071	155,8
Z855 06-L6W	2386	200	144	2151	163,8
Z855 07/2A-L6W	2521	200	144	2151	172,5
Z855 07-L6W	2521	200	144	2151	172,5

z855-2p50-en_b_td



Z855 SERIES, 8 TO 19 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP WEIGHT
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z855 08/2A-L6W	2806	200	144	2301	195,1
Z855 08-L6W	2806	200	144	2301	195,1
Z855 09/2A-L6W	2941	200	144	2301	203,8
Z855 09-L8W	2835	203,3	192	2195	275,1
Z855 10/2A-L8W	2970	203,3	192	2195	283,8
Z855 10-L8W	2970	203,3	192	2195	283,8
Z855 11/2A-L8W	3105	203,3	192	2195	292,4
Z855 11-L8W	3195	203,3	192	2285	312,4
Z855 12-L8W	3330	203,3	192	2285	321,1
Z855 13-L8W	3370	203,3	192	2325	335,7
Z855 14-L8W	3780	203,3	192	2465	373,4
Z855 15-L8W	3915	203,3	192	2465	382
Z855 16-L8W	4140	203,3	192	2555	407,7
Z855 17-L8W	4275	203,3	192	2555	416,3
Z855 18-L8W	4470	203,3	192	2615	438
Z855 19-L8W	4725	203,3	192	2755	471,6

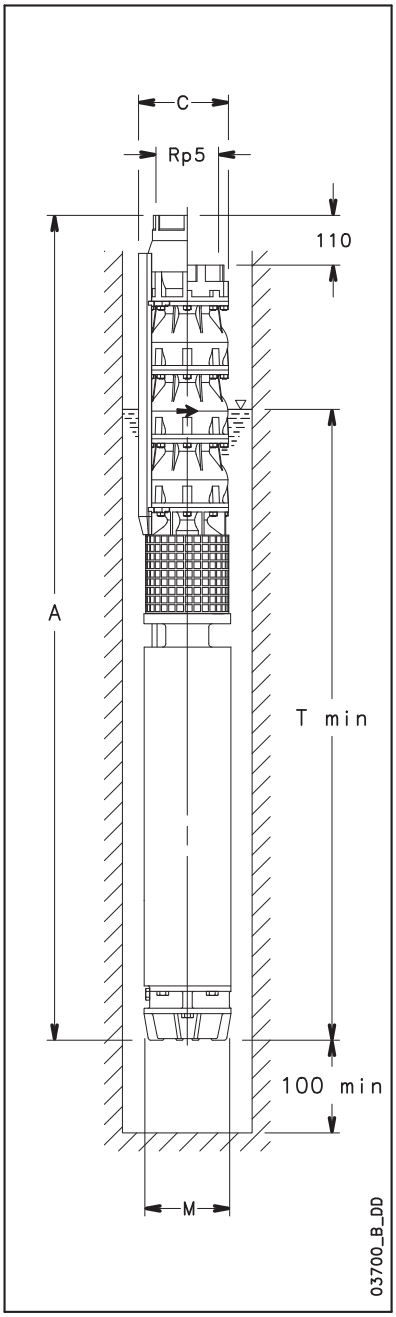
z855a-2p50-en_b_td

1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 198 mm with L6W motor.
C = 201,5 mm with L8W motor.
2) T min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 110 mm, and reduce weight by 4 Kg.

Z875 SERIES, 1 TO 6 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP WEIGHT
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z875 01-L6W	1190	200	144	1613	68,9
Z875 02/2A-L6W	1382	200	144	1653	82,2
Z875 02/1A-L6W	1412	200	144	1683	86,2
Z875 02-L6W	1452	200	144	1723	90,2
Z875 03/3A-L6W	1604	200	144	1723	99,4
Z875 03/2A-L6W	1644	200	144	1763	103,4
Z875 03/1A-L6W	1714	200	144	1833	111,4
Z875 03-L6W	1784	200	144	1903	119,4
Z875 04/2A-L6W	1936	200	144	1903	128,6
Z875 04-L6W	1976	200	144	1943	131,6
Z875 05/3A-L6W	2128	200	144	1943	140,9
Z875 05/2A-L6W	2256	200	144	2071	149,9
Z875 05-L6W	2336	200	144	2151	157,9
Z875 06/2A-L6W	2488	200	144	2151	167,1
Z875 06/1A-L6W	2488	200	144	2151	167,1
Z875 06-L6W	2638	200	144	2301	181,1

z875-2p50-en_b_td



Z875 SERIES, 7 TO 18 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP TYPE
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z875 07/2A-L6W	2790	200	144	2301	190,3
Z875 07-L6W	2790	200	144	2301	190,3
Z875 08/3A-L6W	2942	200	144	2301	199,5
Z875 08/2A-L8W	2746	203,3	192	2105	252,9
Z875 08-L8W	2836	203,3	192	2195	270,9
Z875 09/2A-L8W	2988	203,3	192	2195	280,1
Z875 09-L8W	3078	203,3	192	2285	300,1
Z875 10/2A-L8W	3230	203,3	192	2285	309,4
Z875 10-L8W	3230	203,3	192	2285	309,4
Z875 11/2A-L8W	3382	203,3	192	2285	318,6
Z875 11-L8W	3422	203,3	192	2325	324,6
Z875 12-L8W	3714	203,3	192	2465	362,8
Z875 13-L8W	3875	203,3	192	2465	372
Z875 14-L8W	4108	203,3	192	2555	398,3
Z875 15-L8W	4260	203,3	192	2555	407,5
Z875 16-L8W	4472	203,3	192	2615	429,7
Z875 17-L8W	4764	203,3	192	2755	464
Z875 18-L8W	4937	203,3	192	2755	473,2

z875a-2p50-en_b_td

1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 198 mm with L6W motor.
C = 201,5 mm with L8W motor.
2) T min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 110 mm, and reduce weight by 4 Kg.

Z895 SERIES, 1 TO 6 STAGES
Dimensions and weights

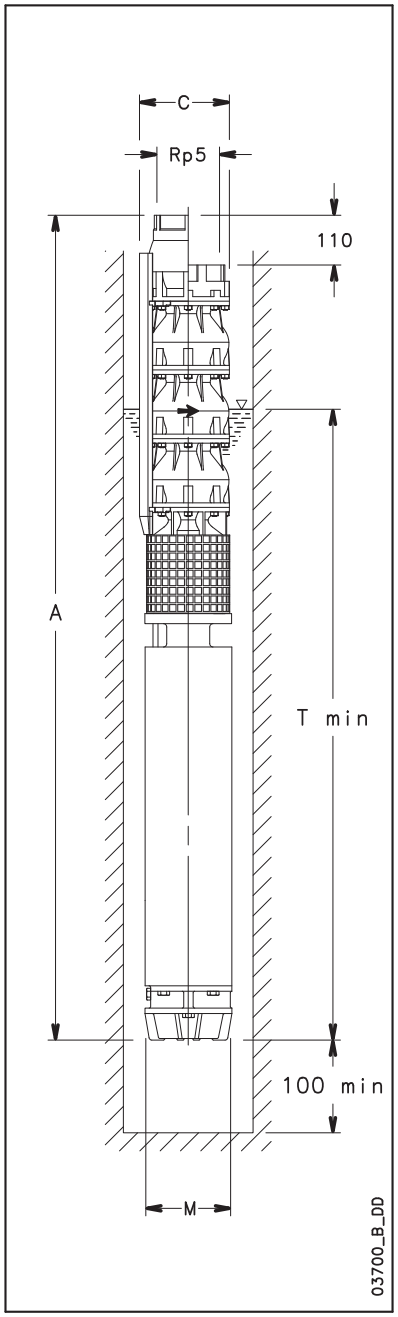
ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP TYPE
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z895 01-L6W	1230	200	144	1653	72,9
Z895 02/2B-L6W	1452	200	144	1723	90,2
Z895 02/2A-L6W	1492	200	144	1763	94,2
Z895 02-L6W	1562	200	144	1833	102,2
Z895 03/2B-L6W	1784	200	144	1903	119,4
Z895 03/1A-L6W	1824	200	144	1943	122,4
Z895 03-L6W	1952	200	144	2071	131,4
Z895 04/2B-L6W	2104	200	144	2071	140,6
Z895 04/2A-L6W	2184	200	144	2151	148,6
Z895 04-L6W	2184	200	144	2151	148,6
Z895 05/3A-L6W	2486	200	144	2301	171,9
Z895 05-L6W	2486	200	144	2301	171,9
Z895 06/3A-L8W	2532	203,3	192	2195	253,1
Z895 06-L8W	2532	203,3	192	2195	253,1

z895-2p50-en_b_td

Z895 SERIES, 7 TO 18 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP TYPE
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z895 07/3A-L8W	2774	203,3	192	2285	281,7
Z895 07-L8W	2774	203,3	192	2285	281,7
Z895 08/3A-L8W	2966	203,3	192	2325	296,9
Z895 08-L8W	3016	203,3	192	2375	307,9
Z895 09/3A-L8W	3258	203,3	192	2465	335,1
Z895 09-L8W	3258	203,3	192	2465	335,1
Z895 10/3A-L8W	3500	203,3	192	2555	361,4
Z895 10-L8W	3500	203,3	192	2555	361,4
Z895 11-L8W	3712	203,3	192	2615	383,6
Z895 12-L8W	3864	203,3	192	2615	392,8
Z895 13-L10W	4124	236	236	2702	538
Z895 14-L10W	4276	236	236	2702	547,3
Z895 15-L10W	4578	236	236	2852	603,5
Z895 16-L10W	4730	236	236	2852	612,7
Z895 17-L10W	4882	236	236	2852	622
Z895 18-L10W	5164	236	236	2982	670,2

z895a-2p50-en_b_td



1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 198 mm with L6W motor.
C = 201,5 mm with L8W motor.
2) T min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 110 mm, and reduce weight by 4 Kg.

Z8125 SERIES, 1 TO 6 STAGES
Dimensions and weights

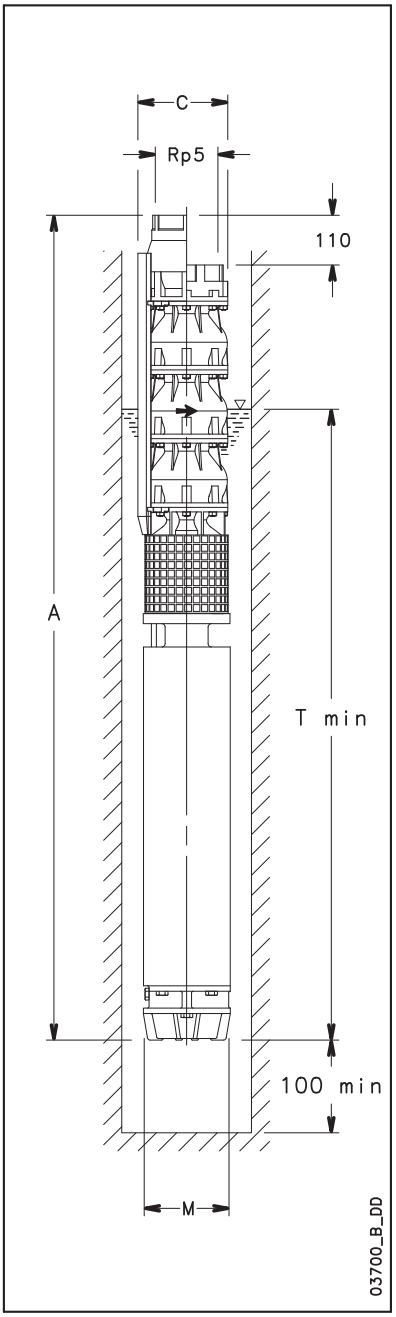
ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP WEIGHT
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z8125 01-L6W	1230	200	144	1653	72,9
Z8125 02/2B-L6W	1452	200	144	1723	90,2
Z8125 02/2A-L6W	1492	200	144	1763	94,2
Z8125 02-L6W	1562	200	144	1833	102,2
Z8125 03/3A-L6W	1784	200	144	1903	119,4
Z8125 03-L6W	1824	200	144	1943	122,4
Z8125 04/2B-L6W	2104	200	144	2071	140,6
Z8125 04/2A-L6W	2184	200	144	2151	148,6
Z8125 04-L6W	2184	200	144	2151	148,6
Z8125 05/3A-L6W	2486	200	144	2301	171,9
Z8125 05-L6W	2486	200	144	2301	171,9
Z8125 06/3A-L8W	2532	203,3	192	2195	253,1
Z8125 06-L8W	2532	203,3	192	2195	253,1

z8125-2p50-en_b_td

Z8125 SERIES, 7 TO 18 STAGES
Dimensions and weights

ELECTRO PUMP TYPE	DIMENSIONS (mm)				ELECTRO PUMP WEIGHT
	A (4)	C (1)	M	Tmin (2)	kg (3)
Z8125 07/3A-L8W	2774	203,3	192	2285	281,7
Z8125 07-L8W	2774	203,3	192	2285	81,72
Z8125 08/3A-L8W	2966	203,3	192	2325	296,9
Z8125 08-L8W	3016	203,3	192	2375	307,9
Z8125 09/3A-L8W	3258	203,3	192	2465	335,1
Z8125 09-L8W	3258	203,3	192	2465	335,1
Z8125 10/3A-L8W	3500	203,3	192	2555	361,4
Z8125 10-L8W	3500	203,3	192	2555	361,4
Z8125 11-L8W	3712	203,3	192	2615	383,6
Z8125 12-L8W	4004	203,3	192	2755	417,8
Z8125 13-L8W	4156	203,3	192	2755	427
Z8125 14-L10W	4276	236	236	2702	547,3
Z8125 15-L10W	4428	236	236	2702	556,5
Z8125 16-L10W	4730	236	236	2852	612,7
Z8125 17-L10W	4882	236	236	2852	622
Z8125 18-L10W	5164	236	236	2982	670,2

z8125a-2p50-en_b_td

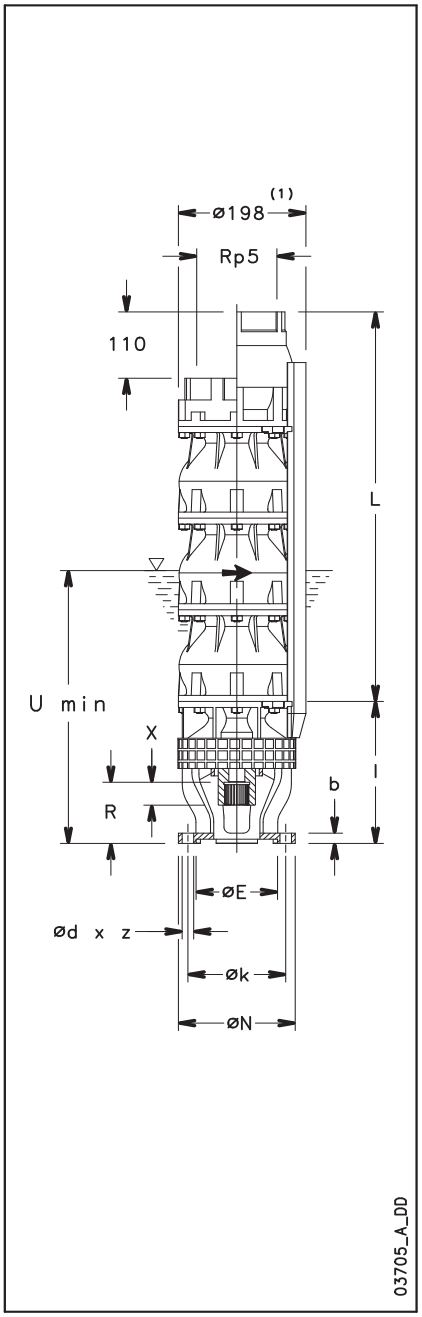


1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 201,5 mm with L8W motor.
C = 236 mm with L10W motor.
2) T min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 110 mm, and reduce weight by 4 Kg.

Z855 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP at 2900 rpm kW	DIMENSIONS (mm)			WEIGHT
		L (3)	I	Umin (2)	kg (3)
Z855 01	4,6	325	235	1000	26,6
Z855 02/2A	6,4	460	235	1000	35,2
Z855 02/1A	7,7	460	235	1000	35,2
Z855 02	9,0	460	235	1000	35,2
Z855 03/2A	10,8	595	235	1000	43,9
Z855 03	13,3	595	235	1000	43,9
Z855 04/2A	15,1	730	235	1000	52,5
Z855 04	17,6	730	235	1000	52,5
Z855 05/3A	18,3	865	235	1000	61,2
Z855 05/2A	20,8	865	235	1000	61,2
Z855 05	22,0	865	235	1000	61,2
Z855 06/2A	23,9	1000	235	1000	69,8
Z855 06	26,4	1000	235	1000	69,8
Z855 07/2A	28,3	1135	235	1000	78,5
Z855 07	30,8	1135	235	1000	78,5
Z855 08/2A	32,7	1270	235	1000	87,1
Z855 08	35,2	1270	235	1000	87,1
Z855 09/2A	37,1	1405	235	1000	95,8
Z855 09	39,6	1405	235	1000	95,1
Z855 10/2A	41,5	1540	235	1000	103,8
Z855 10	44,0	1540	235	1000	103,8
Z855 11/2A	45,9	1675	235	1000	112,4
Z855 11	48,4	1675	235	1000	112,4
Z855 12	52,8	1810	235	1000	121,1
Z855 13	57,2	1945	235	1000	129,7
Z855 14	61,6	2080	235	1000	138,4
Z855 15	66,0	2215	235	1000	147
Z855 16	70,4	2350	235	1000	155,7
Z855 17	74,8	2485	235	1000	164,3
Z855 18	79,2	2620	235	1000	173
Z855 19	83,6	2755	235	1000	181,6

z855p-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm)							
	N	k	d	z	b	E H7	R	X
6" (NEMA)	182	111	13,5	4	17	76,16	73	24
8" (NEMA)	182	152,4	18	4	17	127	101,3	40

6" and 8" coupling according to NEMA standards

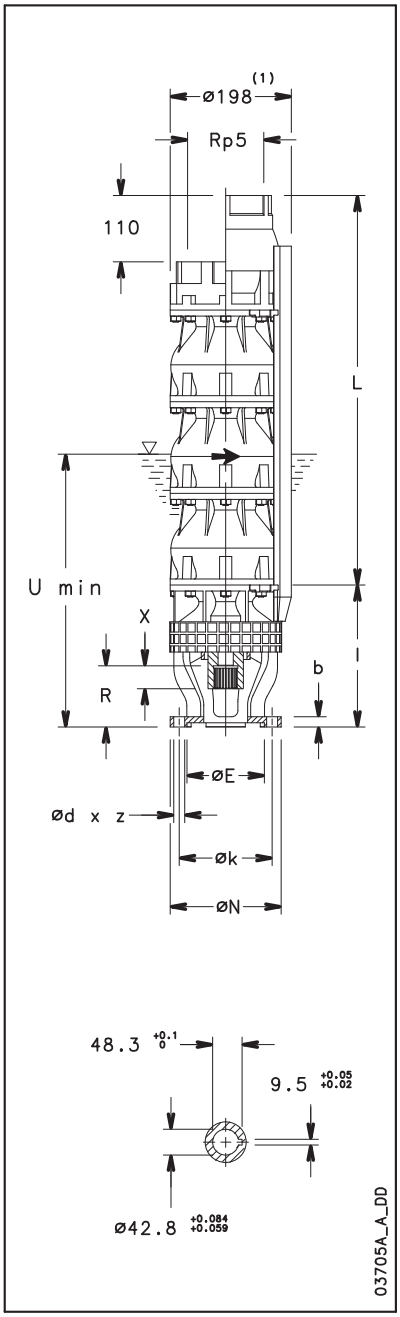
z8-mtcn-2p50-en_a_td

1) Max pump diameter with 2 motor cable included.
2) U min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) For pumps without non-return valve, reduce dimension L by 110 mm, and reduce weight by 4 Kg.

Z875 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP at 2900 min^{-1} kW	DIMENSIONS (mm) L (3)	I	Umin (2)	WEIGHT kg (3)
Z875 01	5,3	342	235	1000	26,9
Z875 02/2A	7,6	494	235	1000	36,2
Z875 02/1A	9,0	494	235	1000	36,2
Z875 02	10,5	494	235	1000	36,2
Z875 03/3A	11,3	646	235	1000	45,4
Z875 03/2A	12,7	646	235	1000	45,4
Z875 03/1A	14,2	646	235	1000	45,4
Z875 03	15,6	646	235	1000	45,4
Z875 04/2A	17,7	798	235	1000	54,6
Z875 04	20,6	798	235	1000	54,6
Z875 05/3A	21,5	950	235	1000	63,9
Z875 05/2A	22,9	950	235	1000	63,9
Z875 05	25,8	950	235	1000	63,9
Z875 06/2A	28,0	1102	235	1000	73,1
Z875 06/1A	29,5	1102	235	1000	73,1
Z875 06	30,9	1102	235	1000	73,1
Z875 07/2A	33,2	1254	235	1000	82,3
Z875 07	36,1	1254	235	1000	82,3
Z875 08/3A	36,9	1406	235	1000	91,5
Z875 08/2A	38,3	1406	235	1000	90,9
Z875 08	41,2	1406	235	1000	90,9
Z875 09/2A	43,5	1558	235	1000	100,1
Z875 9	46,4	1558	235	1000	100,1
Z875 10/2A	48,6	1710	235	1000	109,4
Z875 10	51,5	1710	235	1000	109,4
Z875 11/2A	53,8	1862	235	1000	118,6
Z875 11	56,7	1862	235	1000	118,6
Z875 12	61,8	2014	235	1000	127,8
Z875 13	67,0	2166	235	1000	137
Z875 14	72,1	2318	235	1000	146,3
Z875 15	77,3	2470	235	1000	155,5
Z875 16	82,4	2622	235	1000	164,7
Z875 17	87,6	2774	235	1000	174
Z875 18	92,7	2926	256	1000	183,2

z875p-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm) N	k	d	z	b	E H7	R	X
6" (NEMA)	182	111	13,5	4	17	76,16	73	24
8" (NEMA)	182	152,4	18	4	17	127	101,3	40
10"	232	190,5	M16	4	21	127	101,3	84

6" and 8" coupling according to NEMA standards

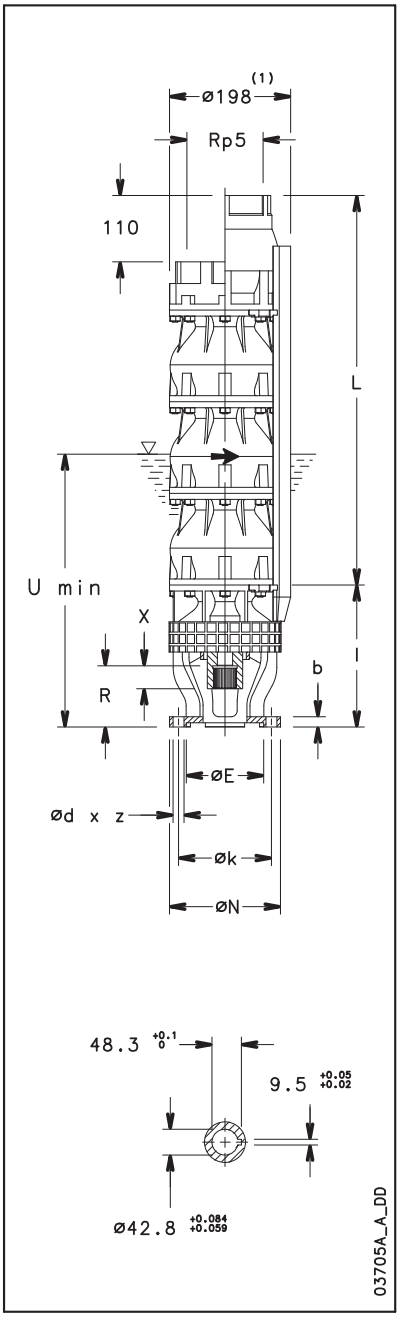
z8a-mtcn-2p50-en_a_td

1) Max pump diameter with 2 motor cable included.
2) U min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) For pumps without non-return valve, reduce dimension L by 110 mm, and reduce weight by 4 Kg.

Z875 PUMP SERIS
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP at 2900 rpm kW	DIMENSIONS (mm) L (3)	l	Umin (2)	WEIGHT kg (3)
Z895 01	7,7	342	235	1000	26,9
Z895 02/2B	10,0	494	235	1000	36,2
Z895 02/2A	12,8	494	235	1000	36,2
Z895 02	15,2	494	235	1000	36,2
Z895 03/2B	17,4	646	235	1000	45,4
Z895 03/1A	21,4	646	235	1000	45,4
Z895 03	22,5	646	235	1000	45,4
Z895 04/2B	24,6	798	235	1000	54,6
Z895 04/2A	27,4	798	235	1000	54,6
Z895 04	29,8	798	235	1000	54,6
Z895 05/3A	33,7	950	235	1000	63,9
Z895 05	37,2	950	235	1000	63,9
Z895 06/3A	41,1	1102	235	1000	73,1
Z895 06	44,6	1102	235	1000	73,1
Z895 07/3A	48,6	1254	235	1000	81,7
Z895 07	52,1	1254	235	1000	81,7
Z895 08/3A	56,0	1406	235	1000	90,9
Z895 08	59,5	1406	235	1000	90,9
Z895 09/3A	63,5	1558	235	1000	100,1
Z895 09	67,0	1558	235	1000	100,1
Z895 10/3A	70,9	1710	235	1000	109,4
Z895 10	74,4	1710	235	1000	109,4
Z895 11	81,8	1862	235	1000	118,6
Z895 12	89,3	2014	235	1000	127,8
Z895 13	96,7	2166	256	1000	137
Z895 14	104,2	2318	256	1000	146,3
Z895 15	111,6	2470	256	1000	155,5
Z895 16	119,0	2622	256	1000	164,7
Z895 17	126,5	2774	256	1000	174
Z895 18	133,9	2926	256	1000	183,2

z895p-2p50-en_a_td



Motor coupling

MOTOR	DIMENSIONS (mm) N	k	d	z	b	E H7	R	X
6" (NEMA)	182	111	13,5	4	17	76,16	73	24
8" (NEMA)	182	152,4	18	4	17	127	101,3	40
10"	232	190,5	M16	4	21	127	101,3	84

6" and 8" coupling according to NEMA standards

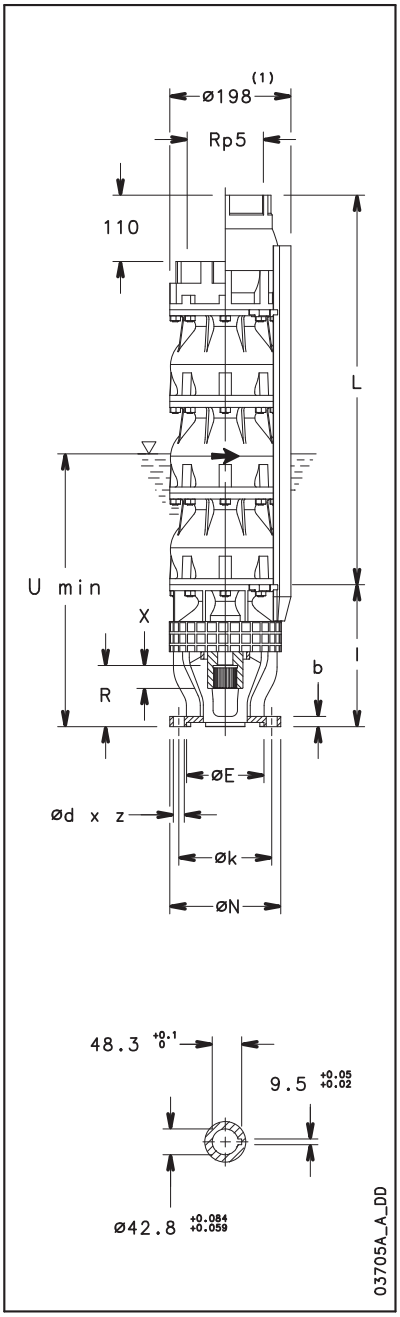
z8a-mtcn-2p50-en_a_td

1) Max pump diameter with 2 motor cable included.
2) U min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) For pumps without non-return valve, reduce dimension L by 110 mm, and reduce weight by 4 Kg.

Z8125 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP at 2900 min^{-1} kW	DIMENSIONs (mm) L (3)	I	Umin (2)	WEIGHT kg (3)
Z8125 01	7,5	342	235	1000	26,9
Z8125 02/2B	10,0	494	235	1000	36,2
Z8125 02/2A	12,2	494	235	1000	36,2
Z8125 02	14,8	494	235	1000	36,2
Z8125 03/3A	18,1	646	235	1000	45,4
Z8125 03	22,0	646	235	1000	45,4
Z8125 04/2B	24,3	798	235	1000	54,6
Z8125 04/2A	26,5	798	235	1000	54,6
Z8125 04	29,0	798	235	1000	54,6
Z8125 05/3A	32,5	950	235	1000	63,9
Z8125 05	36,3	950	235	1000	63,9
Z8125 06/3A	39,7	1102	235	1000	73,1
Z8125 06	43,5	1102	235	1000	73,1
Z8125 07/3A	47,0	1254	235	1000	81,7
Z8125 07	50,8	1254	235	1000	81,7
Z8125 08/3A	54,2	1406	235	1000	90,9
Z8125 08	58,0	1406	235	1000	90,9
Z8125 09/3A	61,5	1558	235	1000	100,1
Z8125 09	65,3	1558	235	1000	100,1
Z8125 10/3A	68,7	1710	235	1000	109,4
Z8125 10	72,5	1710	235	1000	109,4
Z8125 11	79,8	1862	235	1000	118,6
Z8125 12	87,0	2014	235	1000	127,8
Z8125 13	94,3	2166	235	1000	137
Z8125 14	101,5	2318	256	1000	146,3
Z8125 15	108,8	2470	256	1000	155,5
Z8125 16	116,0	2622	256	1000	164,7
Z8125 17	123,3	2774	256	1000	174
Z8125 18	130,5	2926	256	1000	183,2

z8125p-2p50-en_b_td



Motor coupling

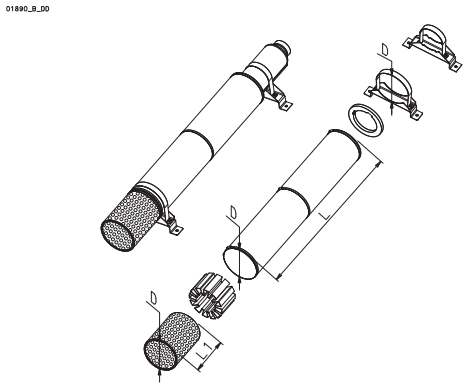
MOTOR	DIMENSIONS (mm) N	k	d	z	b	E H7	R	X
6" (NEMA)	182	111	13,5	4	17	76,16	73	24
8" (NEMA)	182	152,4	18	4	17	127	101,3	40
10"	232	190,5	M16	4	21	127	101,3	84

6" and 8" coupling according to NEMA standards

z8a-mtcn-2p50-en_a_td

1) Max pump diameter with 2 motor cable included.
2) U min valid only for max flow speed of 4,2 m/s.
For higher speeds please contact our sales network.
3) For pumps without non-return valve, reduce dimension L by 110 mm, and reduce weight by 4 Kg.

Cooling shrouds



Z8 PUMP SERIES 6", 8" and 10" motors combination table

PUMP TYPE	MOTOR TYPE				COOLING SET SHROUD (D x L)	COOLING SET FILTER (D x L1)	COOLING SET BRACKETS (D)
	L6C	L6W	L8W	L10W			
Z855 Z875	5,5	5,5			D225X1000	D225X192	D225 - 2PZ
	7,5	7,5					
	9,3	9,3					
	11	11					
	-	13					
	15	15			D225X1250	D225X192	D225 - 2PZ
	18,5	18,5					
	22	22					
	-	26			D225X1500	D225X192	D225 - 3PZ
	30	30					
	37	37					
Z895 Z8125	7,5	7,5			D256X1000	D256X325	D256 - 2PZ
	11	11					
	-	13					
	15	15			D256X1250	D256X325	D256 - 2PZ
	18,5	18,5					
	22	22					
	-	26			D256X1500	D256X325	D256 - 3PZ
	30	30					
	37	37					
Z855 Z875			30		D256X1500	D256X325	D256 - 3PZ
			37				
			45				
			52				
			55				
			60		D256X1750	D256X325	D256 - 3PZ
			67				
			75				
			83		D256X2000	D256X325	D256 - 3PZ
			93				
Z895 Z8125			30		D285X1500	D285X385	D285 - 3PZ
			37				
			45				
			52				
			55				
			60		D285X1750	D285X385	D285 - 3PZ
			67				
			75				
			83		D285X2000	D285X385	D285 - 3PZ
			93				
Z855 Z875				93	D285X2250	D285X385	D285 - 3PZ
				110			
				130			
				150			
Z895 Z8125				93	D330X2250	D330X385	D330 - 3PZ
				110			
				130			
				150			

Z8_kit-raf50-en_b_ta

Z-ZR 10-12″ Series

Multi-stage submersible centrifugal electric pumps for clean water in 10-12″ diameter wells and larger. Made in cast-iron. Impeller or entire pump available in bronze on request.

Built-in non-return valve. The guide bearings and wear rings assure high resistance to wear and long-term constancy and reliability of hydraulic characteristics. Can be coupled to all NEMA-standard motors up to 8″ and to Lowara L10W-L12W 10″ and 12″ motors.

Specifications

Delivery: up to 520 m^3/h
Head: up to 345 metres
Power supply: three-phase 50 and 60 Hz
Power: 11 kW to 300 kW
Maximum immersion depth: 350 metres (depending on LW motor)
Temperature of water: 0°C to +60°C (depending on the configuration of the motor)
Maximum permissible quantity of suspended sand: 50 g/m^3

Materials

Delivery head/valve casing: Stainless steel
Diffuser: Stainless steel
Impeller: Stainless steel
Taperlock: Duplex stainless steel
Suction screen: Stainless steel
Pump shaft: Stainless steel
ZR version: cast parts in DUPLEX

Applications

Water distribution in civil and industrial systems

Pressure boosting

Irrigation

Fire-fighting

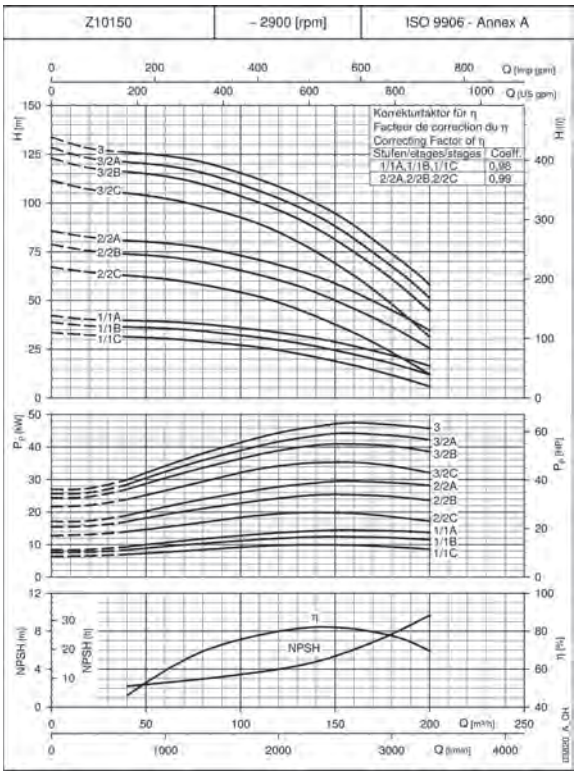
Mining industry

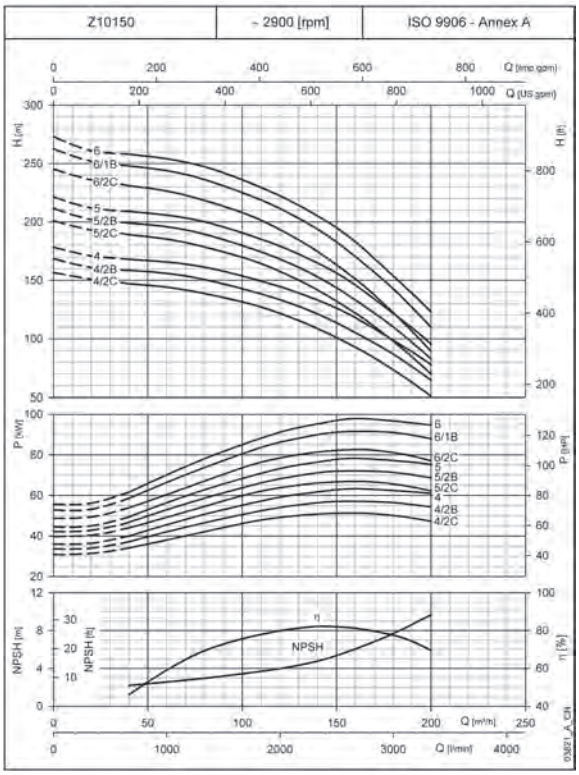
Groundwater level control

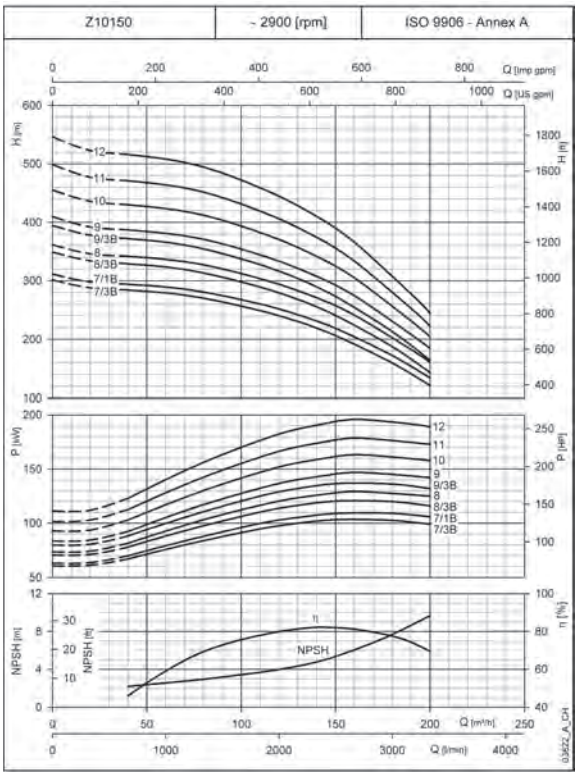


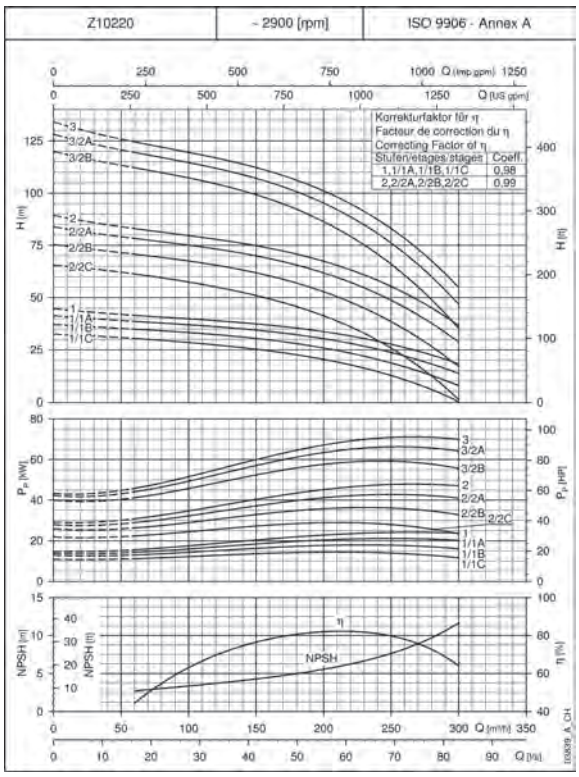
For a complete list of technical information, consult www.lowara.com

Z10 SERIES
Hydraulic performance table at 50 Hz



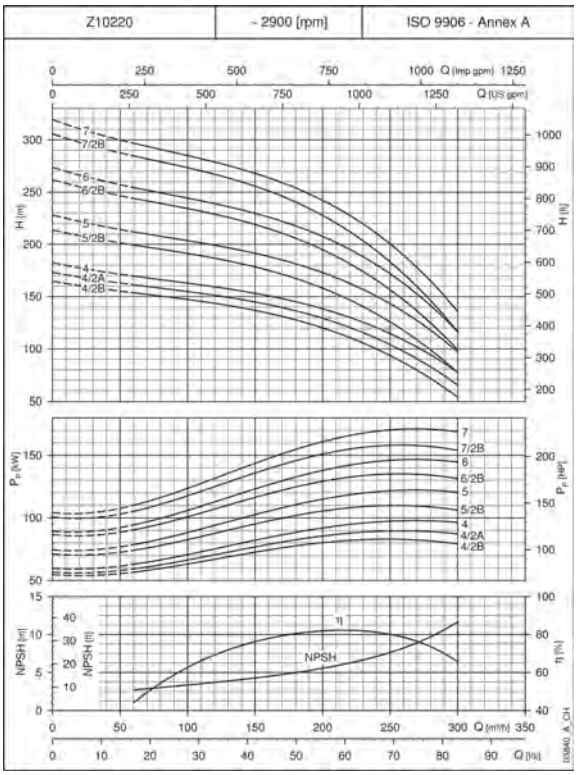


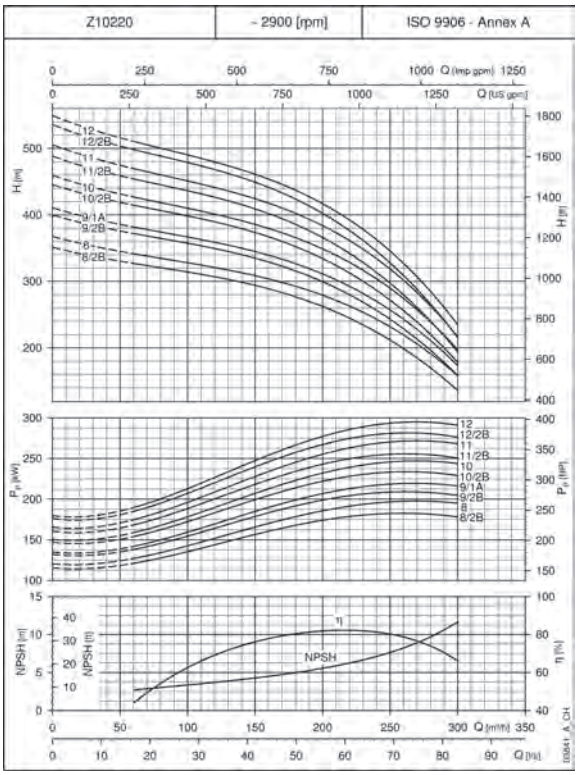


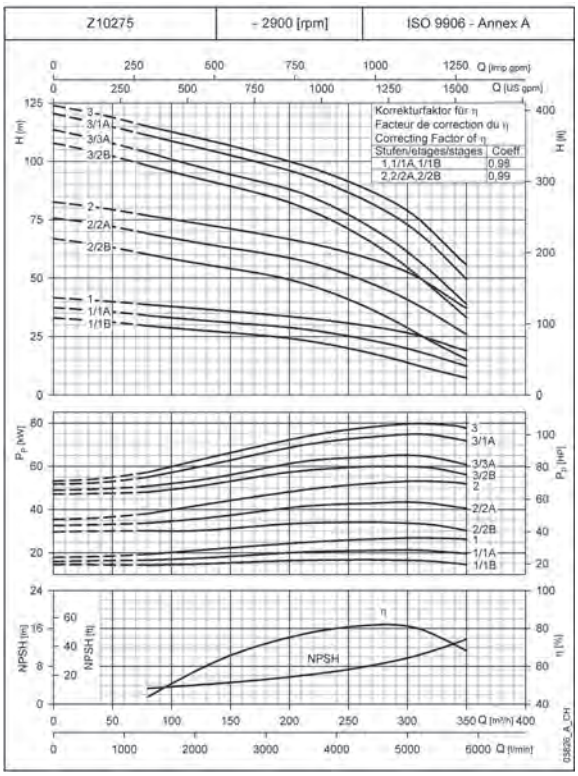


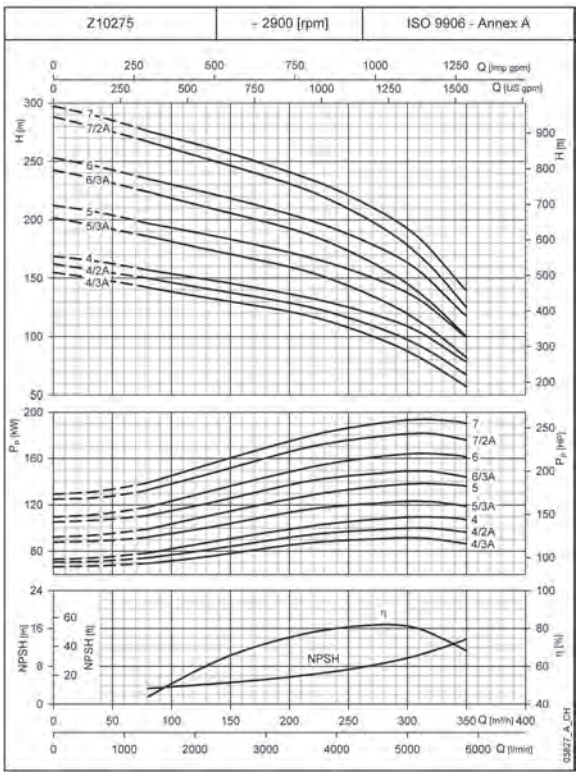
These performances are valid for liquids with density ρ = 1.0 kg/dm³
and kinematic viscosity ν = 1 mm²/s.

Z10 SERIES
Hydraulic performance table at 50 Hz



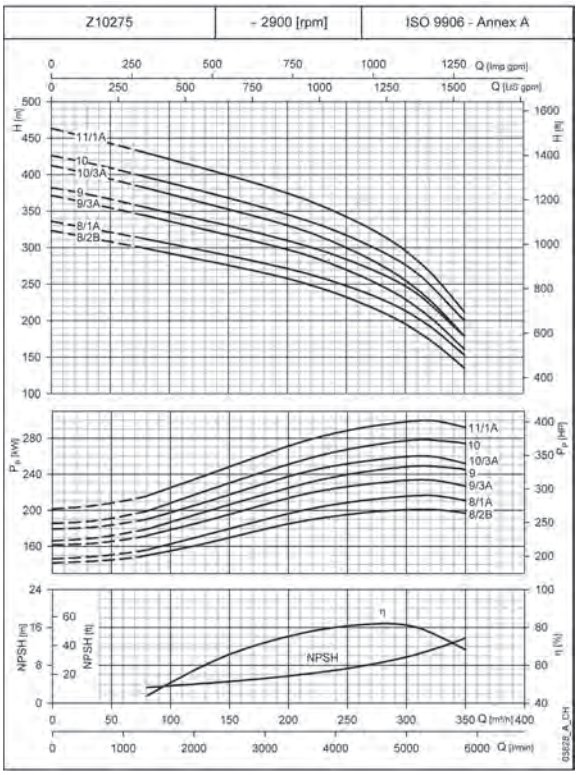






These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z10 SERIES
Hydraulic performance table at 50 Hz



These performances are valid for liquids with density ρ = 1.0 kg/dm^3 and kinematic viscosity ν = 1 mm^2/s.

4

Black and white technical books available
see www.lowara.it

Z10150 SERIES, 1 TO 3 STAGES
Dimensions and weights

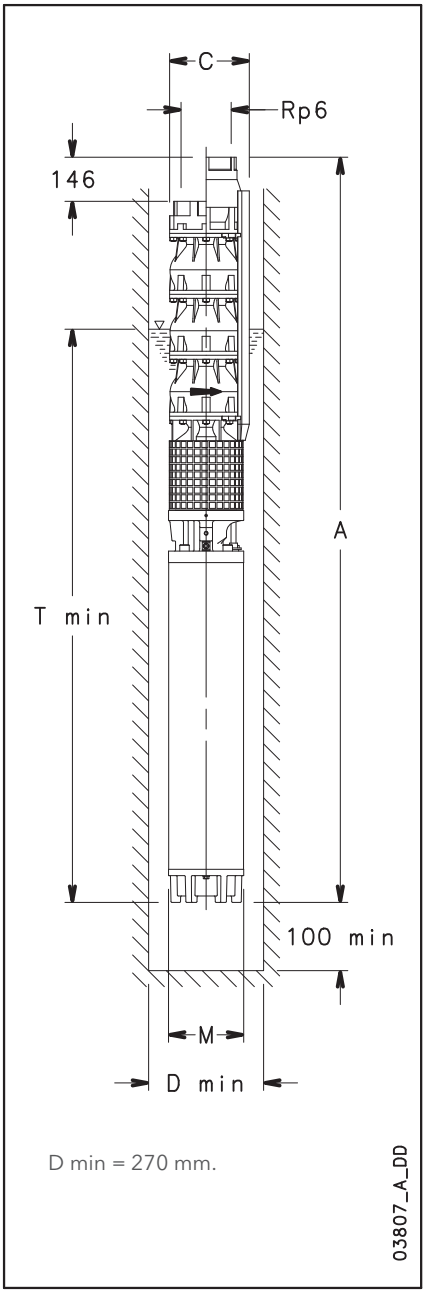
PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10150 01/1C-L6W	11	1428	258	144	2323	103
Z10150 01/1B-L6W	13	1468	258	144	2363	107
Z10150 01/1A-L6W	15	1538	258	144	2433	115
Z10150 02/2C-L6W	22	1864	258	144	2543	146
Z10150 02/2B-L6W	26	1992	258	144	2671	155
Z10150 02/2A-L6W	30	2072	258	144	2751	163
Z10150 03/2C-L6W	37	2388	258	144	2851	203
Z10150 03/2B-L8W	45	2332	258	192	2795	270
Z10150 03/2A-L8W	45	2332	258	192	2795	270
Z10150 03-L8W	52	2422	258	192	2885	290

z10150-2p50-1-en_a_td

Z10150 SERIES, 4 TO 6 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10150 04/2C-L8W	52	2638	258	192	2885	311
Z10150 04/2B-L8W	60	2728	258	192	2975	328
Z10150 04-L8W	67	2818	258	192	3065	346
Z10150 05/2C-L8W	67	3034	258	192	3065	367
Z10150 05/2B-L8W	75	3124	258	192	3155	384
Z10150 05-L8W	83	3184	258	192	3215	397
Z10150 06/2C-L8W	83	3400	258	192	3215	417
Z10150 06/1B-L8W	93	3540	258	192	3355	442
Z10150 06-L10W	110	3524	259	236	3302	558

z10150-2p50-2-en_a_td



1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L6W motor.
C = 255 mm with L8W motor.
2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 146 mm, and reduce weight by 8,8 Kg.

Z10150 SERIES 7 TO 12 STAGES
Dimensions and weights

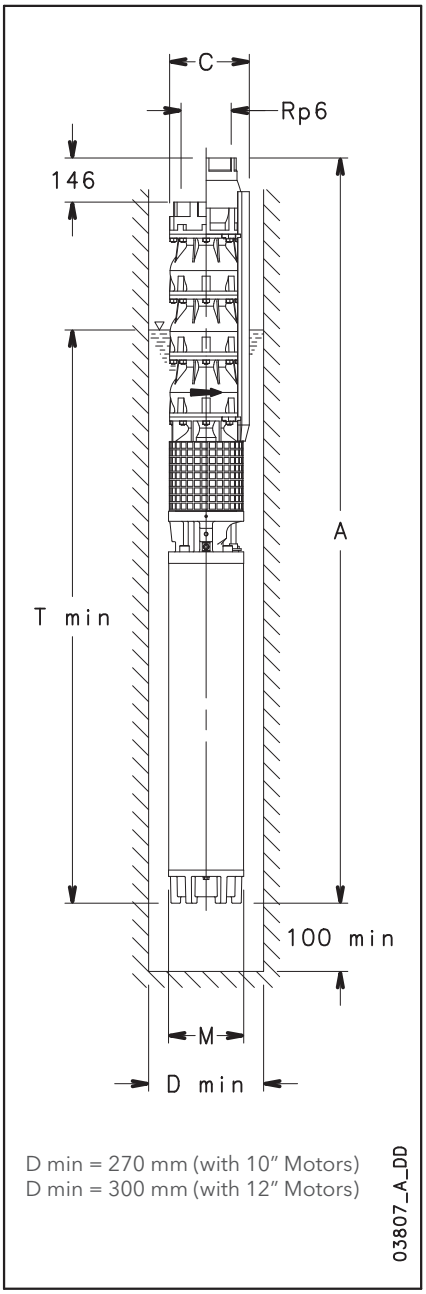
PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10150 07/3B-L10W	110	3740	259	236	3302	579
Z10150 07/1B-L10W	110	3740	259	236	3302	579
Z10150 08/3B-L10W	130	4106	259	236	3452	647
Z10150 08-L10W	130	4106	259	236	3452	647
Z10150 09/3B-L10W	150	4452	259	236	3582	706
Z10150 09-L10W	150	4452	259	236	3582	706
Z10150 10-L12W	185	4425	283	276	3339	793
Z10150 11-L12W	185	4641	283	276	3339	814
Z10150 12-L12W	220	5007	283	276	3489	898

z10150-2p50-3-en_a_td

Z10220 SERIES, 1 TO 3 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10220 01/1C-L6W	15	1538	258	144	3733	114
Z10220 01/1B-L6W	18,5	1608	258	144	3803	122
Z10220 01/1A-L6W	22	1648	258	144	3843	125
Z10220 01-L6W	26	1776	258	144	3971	134
Z10220 02/2C-L6W	30	2072	258	144	4051	161
Z10220 02/2B-L6W	37	2172	258	144	4151	180
Z10220 02/2A-L8W	45	2116	258	192	4095	247
Z10220 02-L8W	52	2206	258	192	4185	267
Z10220 03/2B-L8W	60	2512	258	192	4275	304
Z10220 03/2A-L8W	67	2602	258	192	4365	322
Z10220 03-L8W	75	2692	258	192	4455	339

z10220-2p50-1-en_a_td

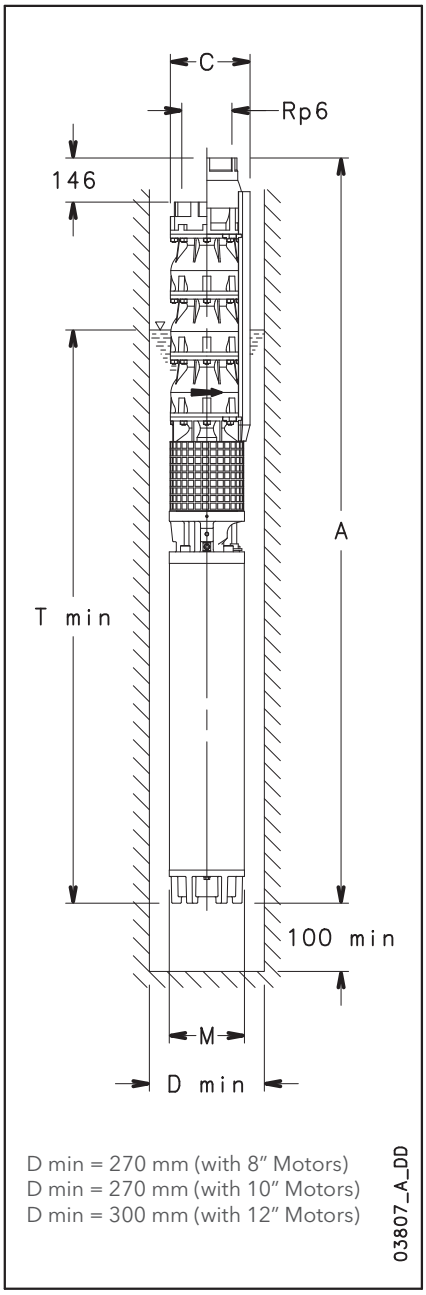


1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L10W motor.
C = 255 mm with L12W motor.
2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 146 mm, and reduce weight by 8,3 Kg.

Z10220 SERIES, 4 TO 7 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10220 04/2B-L8W	83	2968	258	192	4515	371
Z10220 04/2A-L8W	93	3108	258	192	4655	396
Z10220 04-L10W	110	3092	259	236	4602	512
Z10220 05/2B-L10W	110	3308	259	236	4602	531
Z10220 05-L10W	130	3458	259	236	4752	578
Z10220 06/2B-L10W	150	3804	259	236	4882	636
Z10220 06-L10W	150	3804	259	236	4882	636
Z10220 07/2B-L12W	185	3777	283	276	4639	722
Z10220 07-L12W	185	3777	283	276	4639	722

z10220-2p50-2-en_a_td



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Z10220 SERIES, 8 TO 12 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10220 08/2B-L12W	185	3993	283	276	4639	741
Z10220 08-L12W	220	4143	283	276	4789	805
Z10220 09/2B-L12W	220	4359	283	276	4789	824
Z10220 09/1A-L12W	220	4359	283	276	4789	824
Z10220 10/2B-L12W	260	4725	283	276	4939	907
Z10220 10-L12W	260	4725	283	276	4939	907
Z10220 11/2B-L12W	260	4941	283	276	4939	927
Z10220 11-L12W	300	5091	283	276	5089	992
Z10220 12/2B-L12W	300	5307	283	276	5089	1011
Z10220 12-L12W	300	5307	283	276	5089	1011

z10220-2p50-3-en_a_td

1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L8W motor.
C = 255 mm with L10W motor and C = 280 mm with L12W motor.
2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 146 mm, and reduce weight by 8,8 Kg.

Z10275 SERIES, 1 TO 3 STAGES
Dimensions and weights

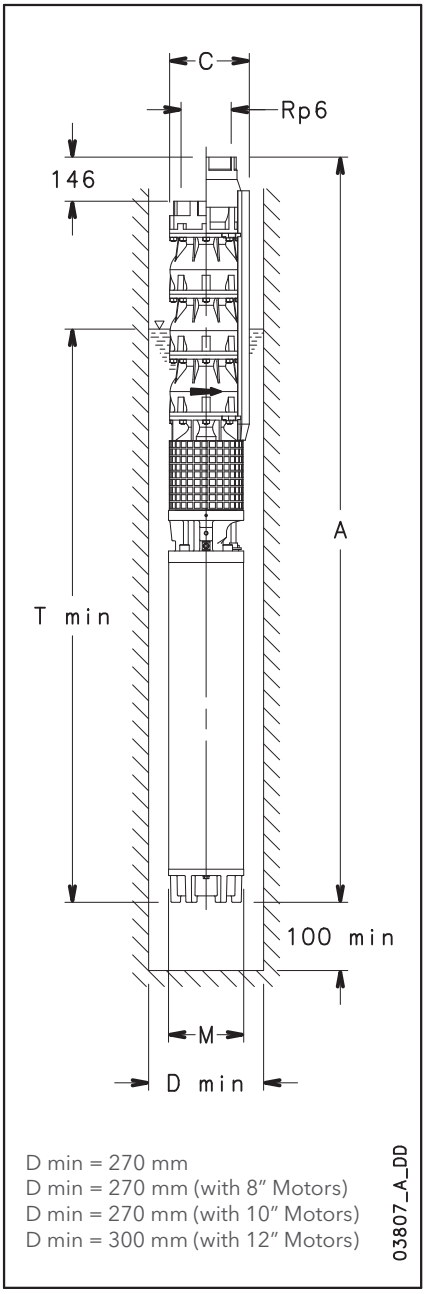
PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10275 01/1B-L6W	18,5	1608	258	144	3803	122
Z10275 01/1A-L6W	22	1648	258	144	3843	125
Z10275 01-L6W	30	1856	258	144	4051	142
Z10275 02/2B-L6W	37	2172	258	144	4151	180
Z10275 02/2A-L8W	45	2116	258	192	4095	248
Z10275 02-L8W	55	2246	258	192	4225	274
Z10275 03/2B-L8W	60	2512	258	192	4275	304
Z10275 03/3A-L8W	67	2602	258	192	4365	322
Z10275 03/1A-L8W	75	2692	258	192	4455	339
Z10275 03-L8W	83	2752	258	192	4515	352

z10275-2p50-1-en_a_td

Z10275 SERIES, 4 TO 7 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10275 04/3A-L8W	93	3108	258	192	4655	397
Z10275 04/2A-L10W	110	3092	259	236	4602	513
Z10275 04-L10W	110	3092	259	236	4602	513
Z10275 05/3A-L10W	130	3458	259	236	4752	579
Z10275 05-L10W	150	3588	259	236	4882	618
Z10275 06/3A-L10W	150	3804	259	236	4882	638
Z10275 06-L12W	185	3561	283	276	4639	703
Z10275 07/2A-L12W	185	3777	283	276	4639	723
Z10275 07-L12W	185	3777	283	276	4639	723

z10275-2p50-2-en_a_td



D min = 270 mm
D min = 270 mm (with 8" Motors)
D min = 270 mm (with 10" Motors)
D min = 300 mm (with 12" Motors)

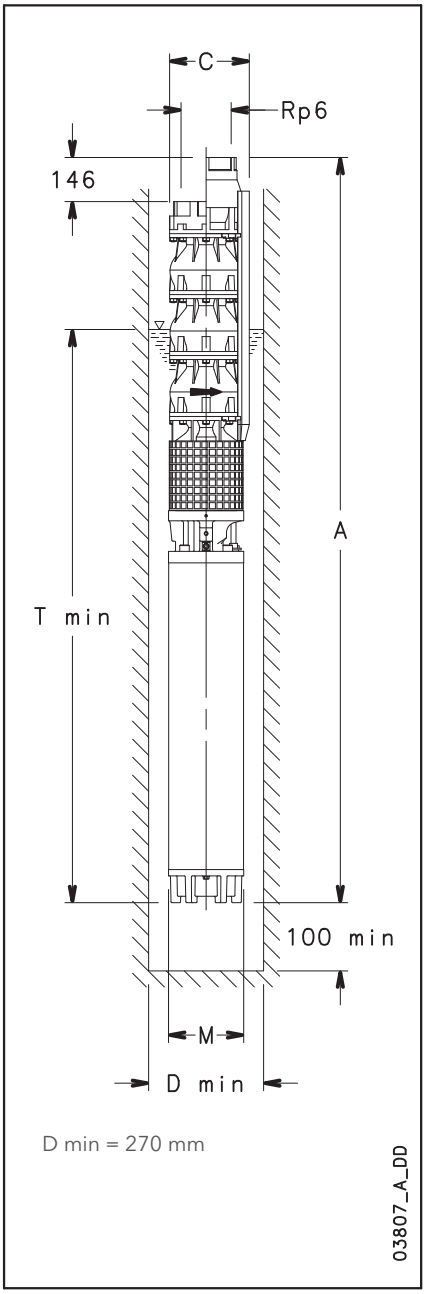
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1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 255 mm with L8W motor.
C = 255 mm with L10W motor and C = 280 mm with L12W motor.
2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 146 mm, and reduce weight by 8,8 Kg.

Z10275 SERIES, 8 TO 11 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z10275 08/2B-L12W	220	4143	283	276	4789	806
Z10275 08/1A-L12W	220	4143	283	276	4789	806
Z10275 09/3A-L12W	260	4509	283	276	4939	890
Z10275 09-L12W	260	4509	283	276	4939	890
Z10275 10/3A-L12W	260	4725	283	276	4939	909
Z10275 10-L12W	300	4875	283	276	5089	974
Z10275 11/1A-L12W	300	5091	283	276	5089	994

z10275-2p50-3-en_a_td

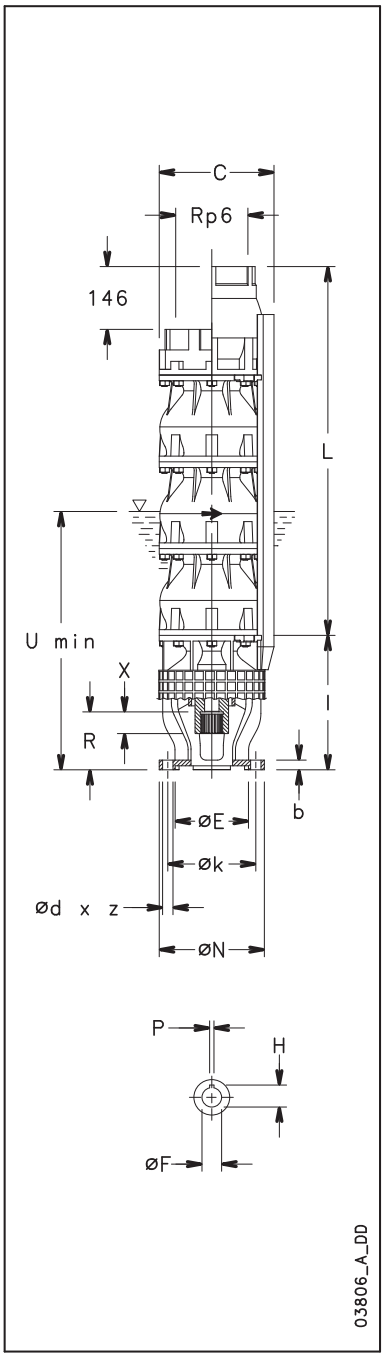


1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 280 mm with L12W motor.
2) T min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 146 mm, and reduce weight by 8,8 Kg.

Z10150 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z10150 01/1C	10,3	442	258	1600	48,1	270
Z10150 01/1B	12,8	442	258	1600	48,1	270
Z10150 01/1A	14,8	442	258	1600	48,1	270
Z10150 02/2C	20,5	658	258	1600	68,8	270
Z10150 02/2B	25,7	658	258	1600	68,8	270
Z10150 02/2A	29,6	658	258	1600	68,8	270
Z10150 03/2C	36,2	874	258	1600	89,5	270
Z10150 03/2B	41,3	874	258	1600	89,8	270
Z10150 03/2A	44,4	874	258	1600	89,8	270
Z10150 03	46,9	874	258	1600	89,8	270
Z10150 04/2C	51,8	1090	258	1600	110,5	270
Z10150 04/2B	57,0	1090	258	1600	110,5	270
Z10150 04	62,6	1090	258	1600	110,5	270
Z10150 05/2C	67,4	1306	258	1600	131,2	270
Z10150 05/2B	72,6	1306	258	1600	131,2	270
Z10150 05	78,2	1306	258	1600	131,2	270
Z10150 06/2C	83,0	1522	258	1600	151,9	270
Z10150 06/1B	91,0	1522	258	1600	151,9	270
Z10150 06	93,8	1522	258	1600	156,8	270
Z10150 07/3B	101,1	1738	258	1600	177,5	270
Z10150 07/1B	106,7	1738	258	1600	177,5	270
Z10150 08/3B	116,7	1954	258	1600	198,2	270
Z10150 08	125,1	1954	258	1600	198,2	270
Z10150 09/3B	132,4	2170	258	1600	218,9	270
Z10150 09	140,8	2170	258	1600	218,9	270
Z10150 10	156,4	2386	271	1600	240,4	300
Z10150 11	172,0	2602	271	1600	261,1	300
Z10150 12	187,7	2818	271	1600	281,8	300

z10150p-50-en_a_td



Motor coupling

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
10"	42,85	47,6	9,5	84
12"	49.212	54,5	12,7	95

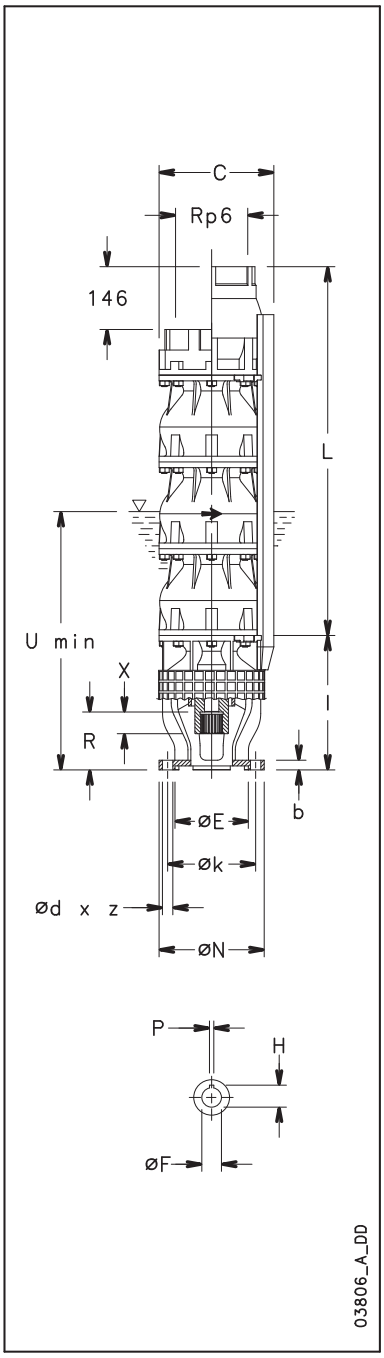
z10-mtcn-50-en_b_td

1) Max pump diameter with 2 motor cables included.
2) U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
3) Weight with non-return valve. For pumps without non-return valve, reduce by 8,3 Kg.
4) For pumps without non-return valve, reduce dimension L by 146 mm.

Z10220 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z10220 01/1C	14,6	442	258	2900	47,3	270
Z10220 01/1B	18,0	442	258	2900	47,3	270
Z10220 01/1A	21,5	442	258	2900	47,3	270
Z10220 01	24,0	442	258	2900	47,3	270
Z10220 02/2C	29,2	658	258	2900	66,6	270
Z10220 02/2B	36,0	658	258	2900	66,6	270
Z10220 02/2A	43,0	658	258	2900	66,9	270
Z10220 02	48,0	658	258	2900	66,9	270
Z10220 03/2B	60,0	874	258	2900	86,2	270
Z10220 03/2A	67,0	874	258	2900	86,2	270
Z10220 03	72,0	874	258	2900	86,2	270
Z10220 04/2B	84,0	1090	258	2900	105,5	270
Z10220 04/2A	91,0	1090	258	2900	105,5	270
Z10220 04	96,0	1090	258	2900	110,4	270
Z10220 05/2B	108,0	1306	258	2900	129,7	270
Z10220 05	120,0	1306	258	2900	129,7	270
Z10220 06/2B	132,0	1522	258	2900	149	270
Z10220 06	144,0	1522	258	2900	149	270
Z10220 07/2B	156,0	1738	271	2900	169,1	300
Z10220 07	168,0	1738	271	2900	169,1	300
Z10220 08/2B	180,0	1954	271	2900	188,4	300
Z10220 08	192,0	1954	271	2900	188,4	300
Z10220 09/2B	204,0	2170	271	2900	207,7	300
Z10220 09/1A	213,5	2170	271	2900	207,7	300
Z10220 10/2B	228,0	2386	271	2900	227	300
Z10220 10	240,0	2386	271	2900	227	300
Z10220 11/2B	252,0	2602	271	2900	246,3	300
Z10220 11	264,0	2602	271	2900	246,3	300
Z10220 12/2B	276,0	2818	271	2900	265,6	300
Z10220 12	288,0	2818	271	2900	265,6	300

z10220p-50-en_a_td



Motor coupling

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
10"	42,85	47,6	9,5	84
12"	49.212	54,5	12,7	95

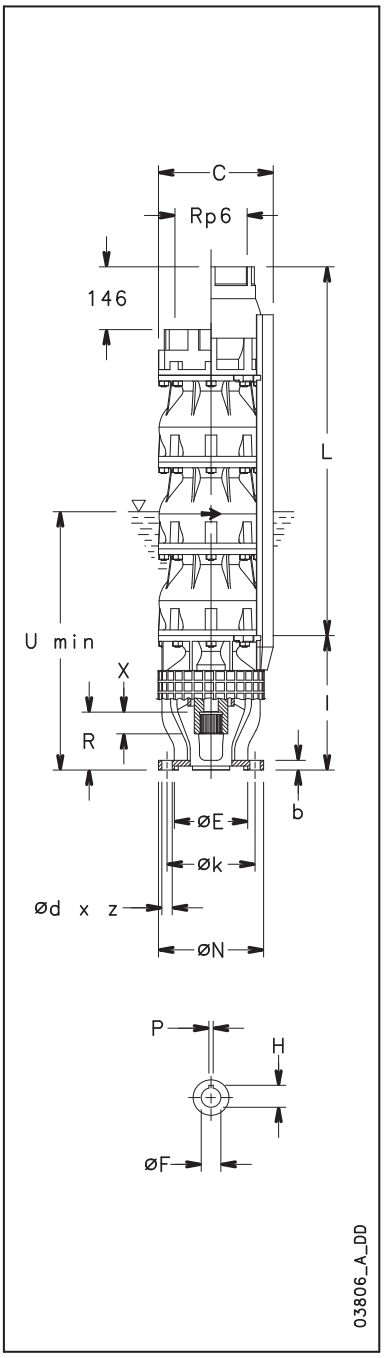
z10-mtcn-50-en_b_td

1) Max pump diameter with 2 motor cables included.
2) U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
3) Weight with non-return valve. For pumps without non-return valve, reduce by 8,3 Kg.
4) For pumps without non-return valve, reduce dimension L by 146 mm.

Z10275 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z10275 01/1B	17,3	442	258	2900	47,4	270
Z10275 01/1A	21,9	442	258	2900	47,4	270
Z10275 01	26,9	442	258	2900	47,4	270
Z10275 02/2B	34,6	658	258	2900	66,9	270
Z10275 02/2A	43,8	658	258	2900	67,2	270
Z10275 02	53,8	658	258	2900	67,2	270
Z10275 03/2B	61,5	874	258	2900	86,7	270
Z10275 03/3A	65,7	874	258	2900	86,7	270
Z10275 03/1A	75,7	874	258	2900	86,7	270
Z10275 03	80,7	874	258	2900	86,7	270
Z10275 04/3A	92,6	1090	258	2900	106,2	270
Z10275 04/2A	97,6	1090	258	2900	111,1	270
Z10275 04	107,6	1090	258	2900	111,1	270
Z10275 05/3A	119,5	1306	258	2900	130,6	270
Z10275 05	134,5	1306	258	2900	130,6	270
Z10275 06/3A	146,4	1522	258	2900	150,1	270
Z10275 06	161,4	1522	271	2900	150,1	300
Z10275 07/2A	178,3	1738	271	2900	170,4	300
Z10275 07	188,3	1738	271	2900	170,4	300
Z10275 08/2B	196,0	1954	271	2900	189,9	300
Z10275 08/1A	210,2	1954	271	2900	189,9	300
Z10275 09/3A	227,1	2170	271	2900	209,4	300
Z10275 09	242,1	2170	271	2900	209,4	300
Z10275 10/3A	254,0	2386	271	2900	228,9	300
Z10275 10	269,0	2386	271	2900	228,9	300
Z10275 11/1A	290,9	2602	271	2900	248,4	300

z10275p-50-en_a_td



Motor coupling

MOTOR CONNECTION	DIMENSIONS (mm) N	k	d	z	b	E H7	R	l
6" (NEMA)	182	111,2	13,5	4	17	76,2	73	263
8" (NEMA)	182	152,4	18	4	17	127	101,45	263
10"	232	190,5	22	4	15	127	101,45	300
12"	232	190,5	22	4	15	127	126,85	300

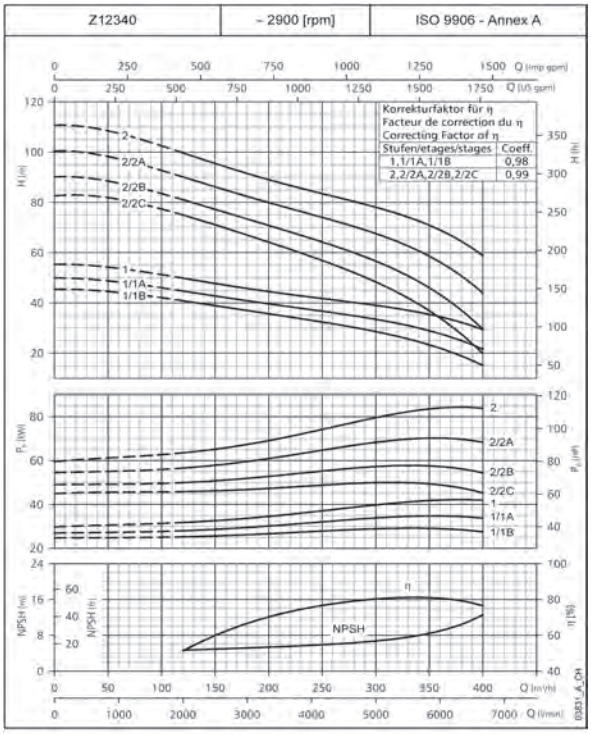
COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
6" (NEMA)	15	16/32	30°	20
8" (NEMA)	23	16/32	30°	38

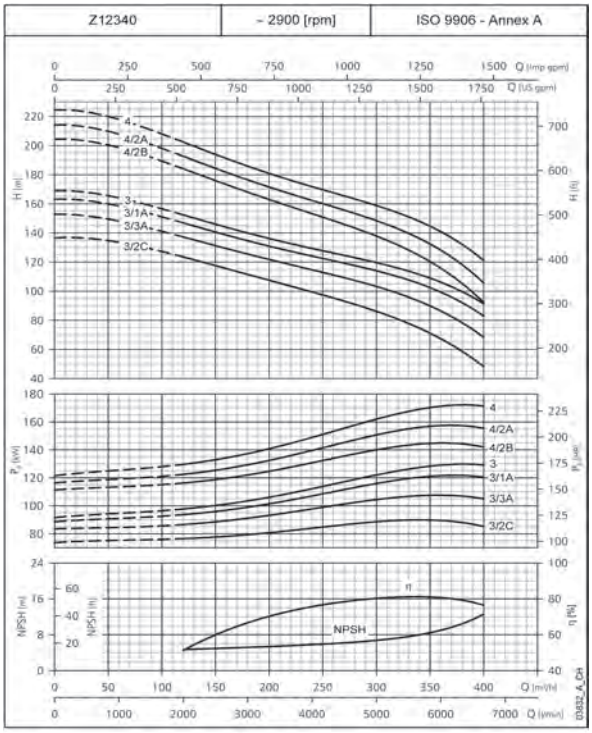
COUPLING	DIMENSIONS (mm) F +0.084 +0.059	H +0.1	P +0.05 +0.02	X
10"	42,85	47,6	9,5	84
12"	49.212	54,5	12,7	95

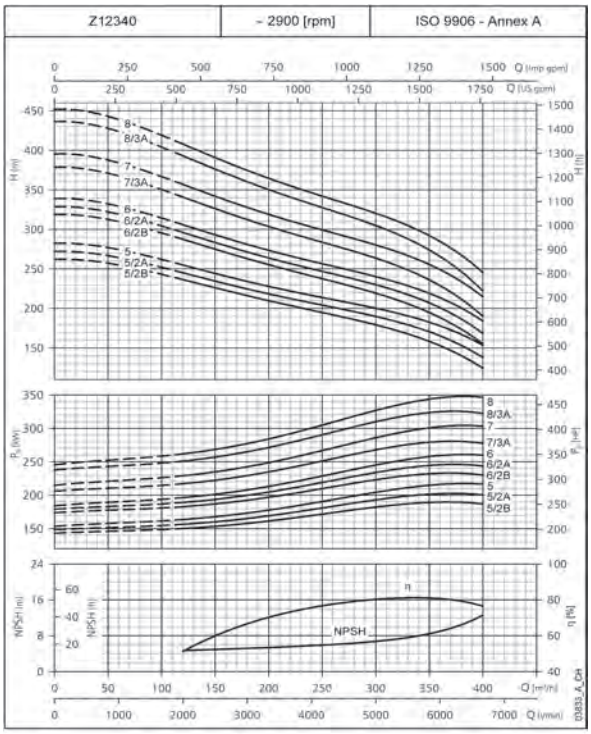
z10-mtcn-50-en_b_td

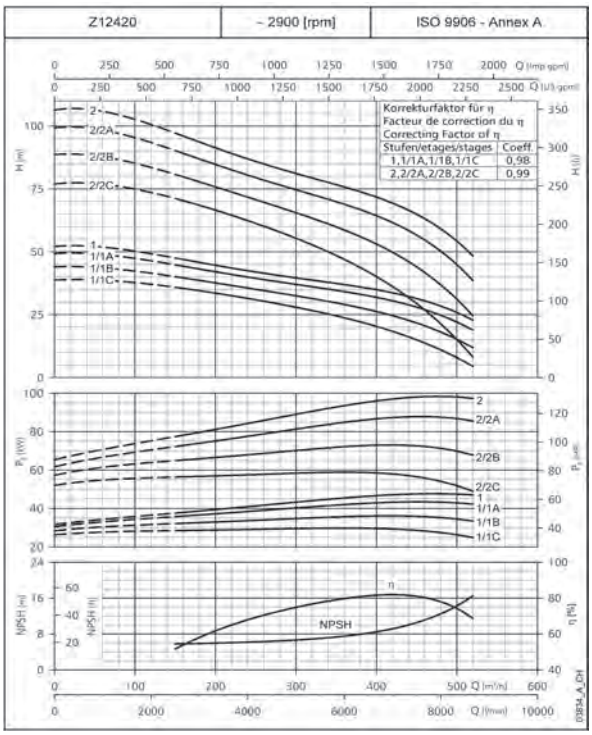
1) Max pump diameter with 2 motor cables included.
2) U min valid only for max flow speed of 4,5 m/s between pump and perforation pipe.
3) Weight with non-return valve. For pumps without non-return valve, reduce by 8,3 Kg.
4) For pumps without non-return valve, reduce dimension L by 146 mm.

Z12 SERIES
Hydraulic performance table at 50 Hz



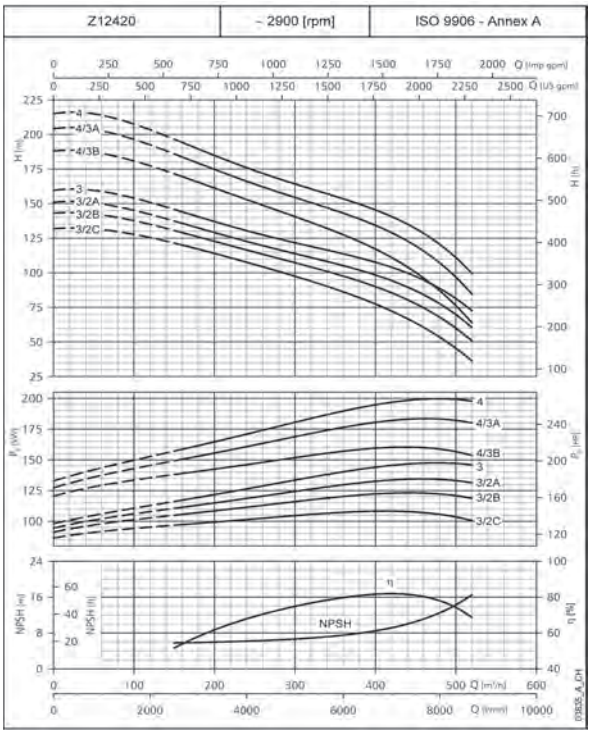


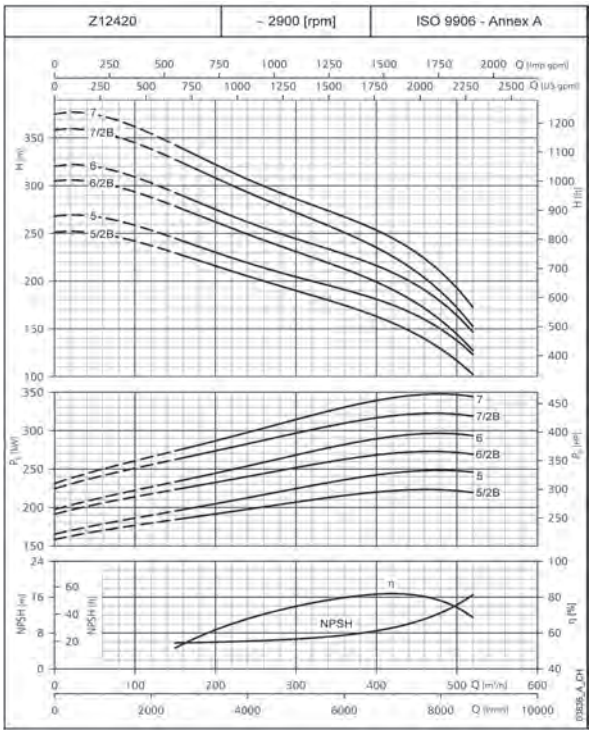




These performances are valid for liquids with density $\rho = 1.0$ kg/dm^3 and kinematic viscosity $\nu = 1$ mm^2/s.

Z12 SERIES
Hydraulic performance table at 50 Hz





These performances are valid for liquids with density ρ = 1.0 kg/dm^3
and kinematic viscosity ν = 1 mm^2/s.

Black and white technical books available
see www.lowara.it

Z12340 SERIES, 1 TO 2 STAGES
Dimensions and weights

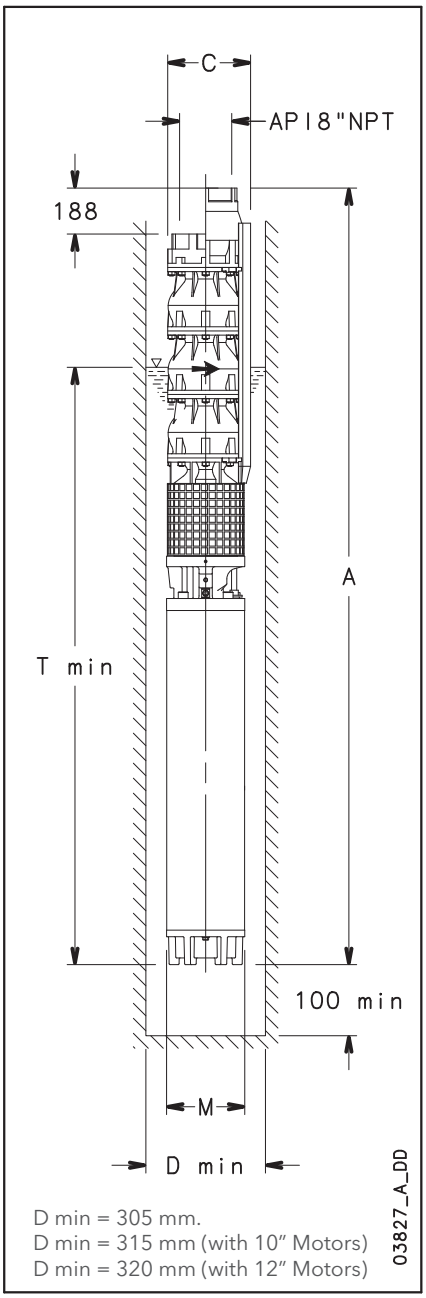
PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12340 01/1B-L8W	30	1765	290	192	3915	217
Z12340 01/1A-L8W	37	1855	290	192	4005	234
Z12340 01-L8W	45	1945	290	192	4095	252
Z12340 02/2C-L8W	52	2270	290	192	4185	300
Z12340 02/2B-L8W	60	2360	290	192	4275	317
Z12340 02/2A-L8W	75	2540	290	192	4455	352
Z12340 02-L8W	93	2740	290	192	4655	390

z12340-2p50-1-en_a_td

Z12340 SERIES 3 TO 4 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12340 03/2C-L10W	110	2982	302	236	4602	531
Z12340 03/3A-L10W	110	2982	302	236	4602	531
Z12340 03/1A-L10W	130	3132	302	236	4752	578
Z12340 03-L10W	150	3262	302	236	4882	617
Z12340 04/2B-L10W	150	3497	302	236	4882	644
Z12340 04/2A-L12W	185	3254	306	276	4639	710
Z12340 04-L12W	185	3254	306	276	4639	710

z12340-2p50-2-en_a_td



D min = 305 mm.
D min = 315 mm (with 10" Motors)
D min = 320 mm (with 12" Motors)

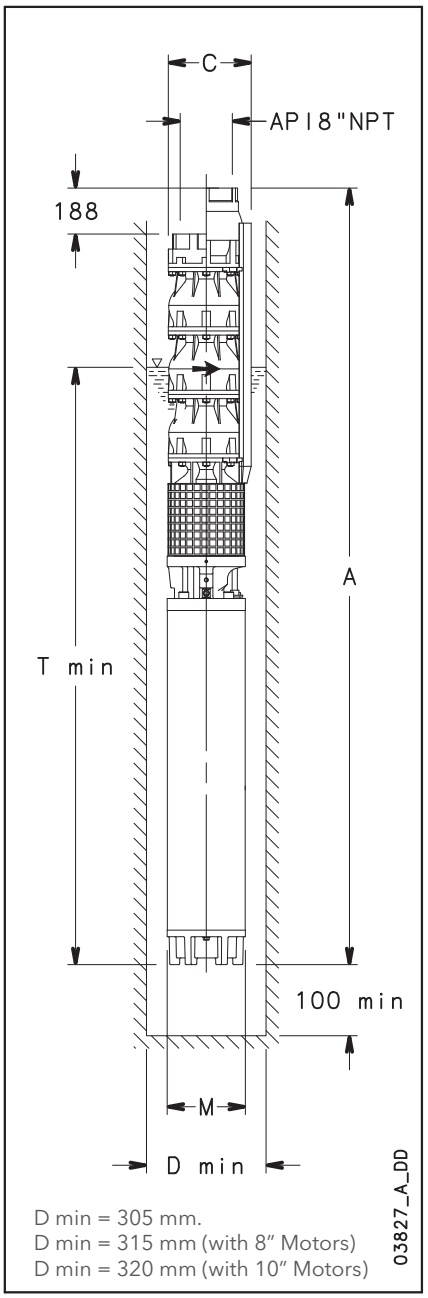
1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 285 mm with L8W motor and C = 293 mm with L10W motor
C = 300 mm with L12W motor.
2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 188 mm, and reduce weight by 16,7 Kg.

Z12340 SERIES, 5 TO 8 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12340 05/2B-L12W	220	3639	306	276	4789	801
Z12340 05/2A-L12W	220	3639	306	276	4789	801
Z12340 05-L12W	220	3639	306	276	4789	801
Z12340 06/2B-L12W	260	4024	306	276	4939	893
Z12340 06/2A-L12W	260	4024	306	276	4939	893
Z12340 06-L12W	260	4024	306	276	4939	893
Z12340 07/3A-L12W	300	4409	306	276	5089	985
Z12340 07-L12W	300	4409	306	276	5089	985
Z12340 08/3A-**	350	-	-	-	-	-
Z12340 08-**	350	-	-	-	-	-

** For power above 350 kW please contact our sales network.

z12340-2p50-3-en_a_td



Z12420 SERIES, 1 TO 2 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12420 01/1C-L8W	30	1765	290	192	3915	217
Z12420 01/1B-L8W	37,0	1855	290	192	4005	234
Z12420 01/1A-L8W	45	1945	290	192	4095	252
Z12420 01-L8W	52	2035	290	192	4185	272
Z12420 02/2C-L8W	60	2360	290	192	4275	317
Z12420 02/2B-L8W	75	2540	290	192	4455	352
Z12420 02/2A-L8W	93	2740	290	192	4655	390
Z12420 02-L10W	110	2747	302	236	4602	504

z10200-2p50-1-en_a_td

1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 285 mm with L8W motor and C = 293 mm with L10W motor
C = 300 mm with L12W motor.
2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 188 mm, and reduce weight by 16,7 Kg.

Z12340 SERIES, 3 TO 4 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12420 03/2C-L10W	110	2982	302	236	4602	531
Z12420 03/2B-L10W	130	3132	302	236	4752	577
Z12420 03/3A-L10W	150	3262	302	236	4882	617
Z12420 03-L10W	150	3262	302	236	4882	617
Z12420 04/3B-L12W	185	3254	306	276	4639	710
Z12420 04/3A-L12W	185	3254	306	276	4639	710
Z12420 04-L12W	220	3404	306	276	4789	774

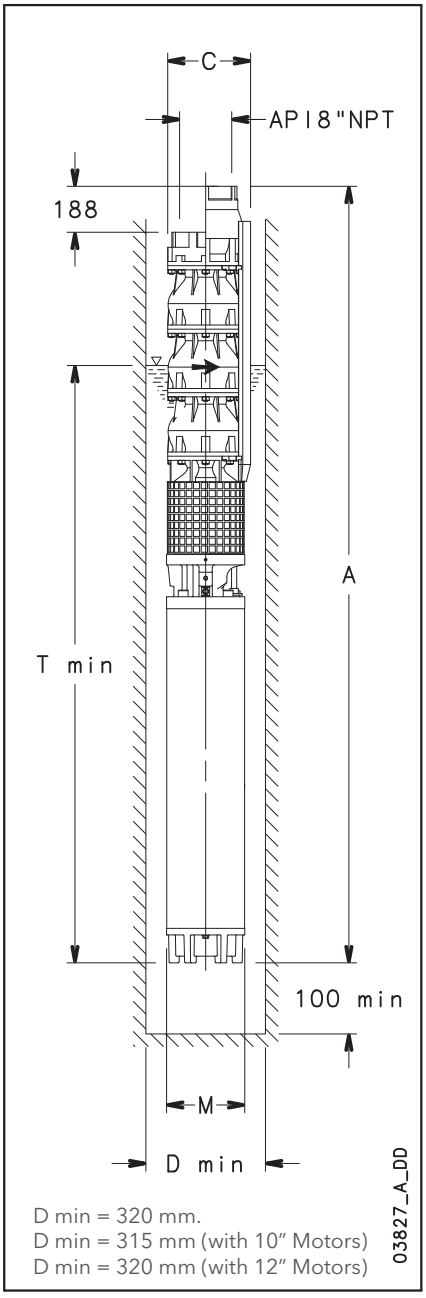
z12420-2p50-2-en_a_td

Z12420 SERIES, 5 TO 7 STAGES
Dimensions and weights

PUMP TYPE	RATED POWER	DIMENSIONS (mm)				WEIGHT
	kW	A (4)	C (1)	M	T (2)	kg (3)
Z12420 05/2B-L12W	260	3789	306	276	4939	865
Z12420 05-L12W	260	3789	306	276	4939	865
Z12420 06/2B-L12W	300	4174	306	276	5089	958
Z12420 06-L12W	300	4174	306	276	5089	958
Z12420 07/2B-**	350	-	-	-	-	-
Z12420 07-**	350	-	-	-	-	-

** For power above 350 kW please contact our sales network.

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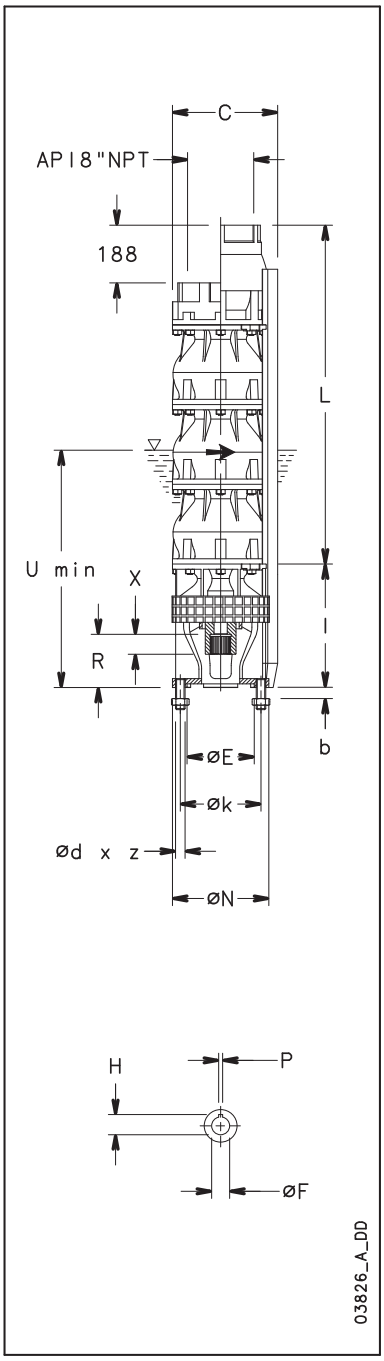
D min = 320 mm.
D min = 315 mm (with 10" Motors)
D min = 320 mm (with 12" Motors)

1) Max electric pump diameter with 2 motor cables included.
In case of 1 motor cable C = 285 mm with L8W motor and C = 293 mm with L10W motor
C = 300 mm with L12W motor.
2) T min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
In case this velocity is exceeded, please contact our sales network.
3) Without cables.
4) For pumps without non-return valve, reduce dimension A by 188 mm, and reduce weight by 16,7 Kg.

Z12340 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z12340 01/1B	29,2	510	290	2900	72	305
Z12340 01/1A	34,9	510	290	2900	72	305
Z12340 01	42,6	510	290	2900	72	305
Z12340 02/2C	50,5	745	290	2900	99,3	305
Z12340 02/2B	57,2	745	290	2900	99,3	305
Z12340 02/2A	70,5	745	290	2900	99,3	305
Z12340 02	84,2	745	290	2900	99,3	305
Z12340 03/2C	94,6	980	302	2900	129,4	315
Z12340 03/3A	109,1	980	302	2900	129,4	315
Z12340 03/1A	124,5	980	302	2900	129,4	315
Z12340 03	132,4	980	302	2900	129,4	315
Z12340 04/2B	147,4	1215	302	2900	156,7	315
Z12340 04/2A	159,6	1215	302	2900	157,5	320
Z12340 04	173,8	1215	302	2900	157,5	320
Z12340 05/2B	193,3	1450	302	2900	184,8	320
Z12340 05/2A	205,2	1450	302	2900	184,8	320
Z12340 05	219,5	1450	302	2900	184,8	320
Z12340 06/2B	235,2	1685	302	2900	212,1	320
Z12340 06/2A	246,5	1685	302	2900	212,1	320
Z12340 06	260,7	1685	302	2900	212,1	320
Z12340 07/3A	280,0	1920	302	2900	239,4	320
Z12340 07	301,0	1920	302	2900	239,4	320
Z12340 08/3A	333,1	2155	302	2900	266,7	320
Z12340 08	354,8	2155	302	2900	266,7	320

z12340p-50-en_a_td



Motor coupling

MOTOR CONNECTION	DIMENSIONS (mm)) N	k	d	z	b	E H7	R	l
8" (NEMA)	185	152,4	M16	4	20	127	101,45	240
10"	232	190,5	M20	4	22	127	101,45	300
12"	232	190,5	M20	4	23	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F	H	P	X
10"	42.85^{h6}	47,6	9,5	86
12"	49.212^{h6}	54,5	12,7	95

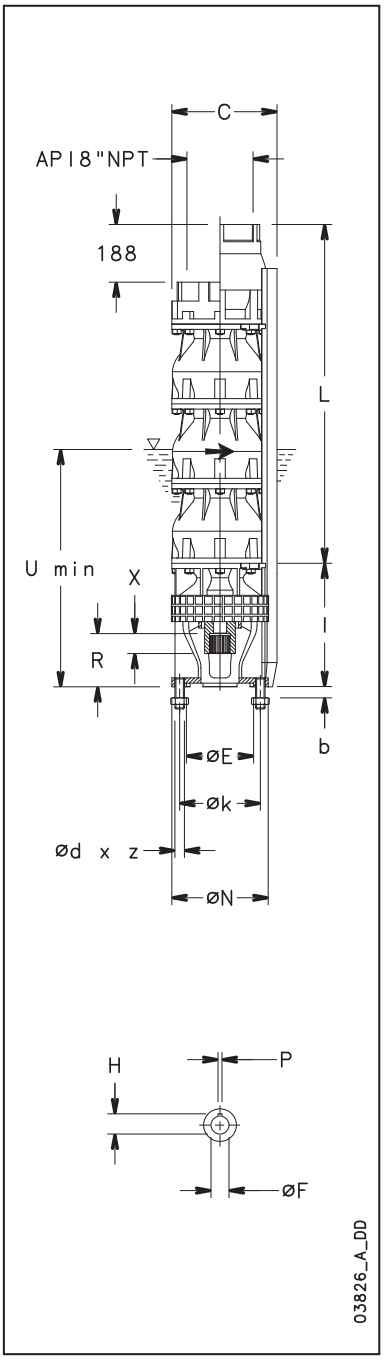
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1) Max pump diameter with 2 motor cables included.
2) U min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
3) Weight with non-return valve. For pumps without non-return valve, reduce by 16,7 Kg.
4) For pumps without non-return valve, reduce dimension L by 188 mm.

Z12420 PUMP SERIES
Dimensions and weights

PUMP TYPE	MAX POWER ABSORBED BY PUMP kW	DIMENSIONS (mm) L (4)	C (1)	U (2)	WEIGHT kg (3)	Ø MIN. WELL mm
Z12420 01/1C	29,7	510	290	2900	72	305
Z12420 01/1B	35,4	510	290	2900	72	305
Z12420 01/1A	43,1	510	290	2900	72	305
Z12420 01	47,0	510	290	2900	72	305
Z12420 02/2C	58,2	745	290	2900	99,3	305
Z12420 02/2B	71,5	745	290	2900	99,3	305
Z12420 02/2A	86,2	745	290	2900	99,3	305
Z12420 02	98,5	745	302	2900	102,1	315
Z12420 03/2C	109,6	980	302	2900	129,4	315
Z12420 03/2B	122,8	980	302	2900	129,4	315
Z12420 03/3A	134,1	980	302	2900	129,4	315
Z12420 03	147,8	980	302	2900	129,4	315
Z12420 04/3B	161,3	1215	302	2900	157,5	320
Z12420 04/3A	184,3	1215	302	2900	157,5	320
Z12420 04	200,1	1215	302	2900	157,5	320
Z12420 05/2B	223,1	1450	302	2900	184,8	320
Z12420 05	247,6	1450	302	2900	184,8	320
Z12420 06/2B	269,8	1685	302	2900	212,1	320
Z12420 06	291,0	1685	302	2900	212,1	320
Z12420 07/2B	325,4	1920	302	2900	239,4	320
Z12420 07	350,2	1920	302	2900	239,4	320

z12420p-50-en_a_td



Motor coupling

MOTOR CONNECTION	DIMENSIONS (mm)) N	k	d	z	b	E H7	R	l
8" (NEMA)	185	152,4	M16	4	20	127	101,45	240
10"	232	190,5	M20	4	22	127	101,45	300
12"	232	190,5	M20	4	23	127	126,85	300

COUPLING	DIMENSIONS (mm) Profile of gear coupling according to NEMA NUMBER OF TEETH	DIAMETRAL PITCH	PRESSURE ANGLE	X
8" (NEMA)	23	16/32	30°	38

COUPLING	DIMENSIONS (mm) F	H	P	X
10"	42.85 h6	47,6	9,5	86
12"	49.212 h6	54,5	12,7	95

z12-mtcn-50-en_a_td

1) Max pump diameter with 2 motor cables included.
2) U min valid only for max flow speed of 6,8 m/s between pump and perforation pipe.
3) Weight with non-return valve. For pumps without non-return valve, reduce by 16,7 Kg.
4) For pumps without non-return valve, reduce dimension L by 188 mm.

4OS/C Series

Submersible motors filled with cooling liquid, suitable for use with foodstuffs. The choice of component materials ensures optimum operating performance, superior quality, reliability and easy installation.

Specifications

Power supply: three-phase and single-phase 50 and 60 Hz
Single-phase version
0.37 to 3.37 kW 220-240V, 50Hz
Three-phase version
0.37 to 7.5 kW 220-240V, 50Hz
Three-phase version
0.37 to 7.5 kW 380-415V, 50Hz
Maximum immersion depth:
150 metres
Insulation class: F
Protection: IP68
Voltage fluctuations:
+/-10% (230V), +/- 10% (400V)
Rewindable stator
Shaft extension and coupling dimensions according to NEMA standards
Internal fluid suitable for use with foodstuffs (FDA)
Sandproof mechanical seal

Materials

Outer sleeve: Stainless steel
Shaft extension: Stainless steel
Upper and lower support: Cast-iron
Elastomers: NBR
Compensating diaphragm: NBR
Cable: EPDM
Cooling fluid: Non-toxic oil

Applications

Water supply

Pressure boosting

Irrigation

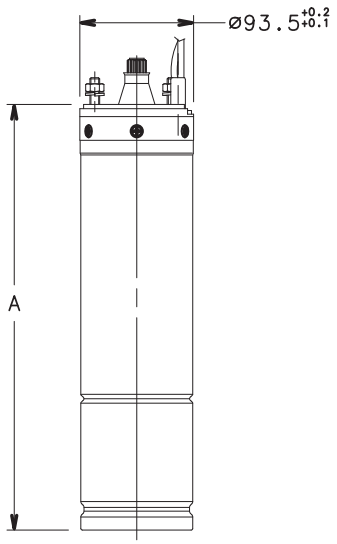
Rain water collection

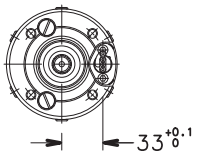
Fire-fighting

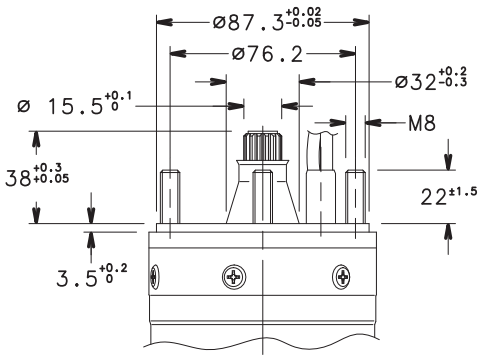


For a complete list of technical information, consult www.lowara.com

4OS SERIES MOTORS
Dimensions and weights at 50 Hz







MOTOR TYPE	RATED POWER kW	RATED POWER HP	DIMENSIONS Max mm A	WEIGHT kg
4OS03M235	0,37	0,5	355	7,3
4OS03T405			334	6,8
4OS05M235	0,55	0,75	355	7,9
4OS05T405			355	7,3
4OS07M235	0,75	1	380	9
4OS07T405			355	7,9
4OS11M235	1,1	1,5	415	10,9
4OS11T405			380	9
4OS15M235	1,5	2	450	12,5
4OS15T405			415	11,1
4OS22M235	2,2	3	500	14,8
4OS22T405			450	12,6
4OS30T405	3	4	450	13,6
4OS40T405	4	5,5	570	17,5
4OS55T405	5,5	7,5	630	21
4OS75T405	7,5	10	836	28,5

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Single-phase operating characteristics at 50 Hz

MOTOR TYPE SINGLE-PHASE	RATED POWER kW	RATED POWER HP	RATED VOLTAGE V	CAPACITOR µF/450V	OPERATING CHARACTERISTICS AT RATED POWER RATED CURRENT A	rpm	η %	cosφ	DIRECT START Ts/Tn*	DIRECT START Is/In	MAX WATER TEMPERATURE °C	CABLE TYPE Nc x sec mm²	CABLE TYPE L m
4OS03M235	0,37	0,5	220	16	3,0	2835	56,8	0,98	0,56	3,08	35	4x1.5	1,75
			230		3,1	2845	54,7	0,96	0,62	3,17			
			240		3,2	2860	52,5	0,93	0,68	3,2			
4OS05M235	0,55	0,75	220	20	4,1	2815	62,4	0,98	0,60	2,93	35	4x1.5	1,75
			230		4,1	2830	60,4	0,96	0,66	3,02			
			240		4,3	2845	58,4	0,92	0,72	3,06			
4OS07M235	0,75	1	220	30	5,4	2825	63,3	0,99	0,57	3,07	35	4x1.5	1,75
			230		5,5	2840	61,6	0,97	0,63	3,2			
			240		5,6	2855	59,9	0,94	0,69	3,27			
4OS11M235	1,1	1,5	220	40	7,5	2820	67,6	0,99	0,62	2,97	35	4x1.5	1,75
			230		7,4	2840	66,3	0,98	0,68	3,14			
			240		7,6	2850	63,9	0,95	0,74	3,2			
4OS15M235	1,5	2	220	50	10,0	2830	69,3	0,98	0,48	3,1	35	4x1.5	1,75
			230		10,1	2845	67,6	0,96	0,53	3,22			
			240		10,5	2855	64,9	0,92	0,58	3,22			
4OS22M235	2,2	3	220	70	14,3	2805	71,1	0,99	0,46	2,71	35	4x1.5	2,5
			230		14,1	2820	69,6	0,97	0,50	2,86			
			240		14,4	2840	67,7	0,94	0,55	2,93			
4OS40M235	4	5,5	220	90	25,7	2850	73,8	0,96	0,42	3,48	35	4 x 2	2,5
			230		24,9	2870	74,0	0,94	0,46	3,76			
			240		24,8	2880	73,4	0,92	0,50	3,94			

* Ts/Tn = ratio between starting torque and nominal torque.

4OS-M-2p50-en_c_te

4OS SERIES MOTORS
Three-phase operating characteristics at 50 Hz

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING FEATURES AT RATED POWER				DIRECT STARTING		MAX. WATER TEMPERATURE	CABLE TYPE	
THREE-PHASE	kW	HP	V	RATED CURRENT A	rpm	η %	cosφ	Ts/Tn*	Is/In	C	Nc x sez mm²	L m
4OS03T235	0,37	0,5	220	2,0	2835	62	0,78	3,4	5,1	35	4x1,5	1,75
			230	2,1	2855	62	0,72	3,8	5,3			
			240	2,2	2865	61	0,68	4,1	5,3			
4OS05T235	0,55	0,75	220	2,8	2795	65	0,8	2,8	4,6	35	4x1,5	1,75
			230	2,9	2820	64	0,75	3,1	4,7			
			240	3,0	2835	63	0,71	3,4	4,7			
4OS07T235	0,75	1	220	3,8	2790	68	0,78	3,3	4,6	35	4x1,5	1,75
			230	4,0	2815	67	0,71	3,6	4,7			
			240	4,2	2825	65	0,67	3,9	4,6			
4OS11T235	1,1	1,5	220	5,1	2780	72	0,8	2,7	4,2	35	4x1,5	1,75
			230	5,2	2810	71	0,74	3,0	4,4			
			240	5,4	2820	70	0,7	3,2	4,3			
4OS15T235	1,5	2	220	7,0	2790	73	0,78	3,0	4,7	35	4x1,5	1,75
			230	7,2	2815	72	0,72	3,4	4,8			
			240	7,6	2825	70	0,68	3,7	4,7			
4OS22T235	2,2	3	220	9,7	2785	74	0,80	2,3	4,7	35	4x1,5	2,5
			230	10,0	2810	74	0,74	2,6	4,8			
			240	10,5	2825	73	0,69	2,7	4,7			
4OS30T235	3	4	220	12,1	2810	77	0,85	1,8	4,2	35	4x1,5	2,5
			230	12,0	2830	77	0,81	2,0	4,5			
			240	12,3	2845	77	0,77	2,2	4,6			
4OS40T235	4	5,5	220	16,4	2810	75	0,85	2,2	4,8	35	4x1,5	2,5
			230	16,5	2840	76	0,80	2,4	5,0			
			240	17,0	2850	75	0,76	2,6	5,0			
4OS55T235	5,5	7,5	220	22,9	2795	76	0,83	1,8	4,6	35	4x1,5	2,5
			230	23,0	2820	77	0,78	2,0	4,8			
			240	23,7	2840	77	0,73	2,2	4,9			
4OS75T235	7,5	10	220	31,0	2820	78	0,82	1,9	4,9	35	4x1,5	4
			230	31,4	2850	79	0,76	2,1	5,1			
			240	32,4	2860	78	0,71	2,3	5,1			
4OS03T405	0,37	0,5	380	1,2	2835	62	0,78	3,4	5,1	35	4x1,5	1,75
			400	1,2	2855	62	0,72	3,8	5,3			
			415	1,2	2865	61	0,68	4,1	5,3			
4OS05T405	0,55	0,75	380	1,6	2795	65	0,8	2,8	4,6	35	4x1,5	1,75
			400	1,7	2820	64	0,75	3,1	4,7			
			415	1,7	2835	63	0,71	3,4	4,7			
4OS07T405	0,75	1	380	2,2	2790	68	0,78	3,3	4,6	35	4x1,5	1,75
			400	2,3	2815	67	0,71	3,6	4,7			
			415	2,4	2825	65	0,67	3,9	4,6			
4OS11T405	1,1	1,5	380	2,9	2780	72	0,8	2,7	4,2	35	4x1,5	1,75
			400	3,0	2810	71	0,74	3,0	4,4			
			415	3,1	2820	70	0,7	3,2	4,3			
4OS15T405	1,5	2	380	4,0	2790	73	0,78	3,0	4,7	35	4x1,5	1,75
			400	4,2	2815	72	0,72	3,4	4,8			
			415	4,4	2825	70	0,68	3,7	4,7			
4OS22T405	2,2	3	380	5,6	2785	74	0,80	2,3	4,7	35	4x1,5	2,5
			400	5,8	2810	74	0,74	2,6	4,8			
			415	6,1	2825	73	0,69	2,7	4,7			
4OS30T405	3	4	380	7,0	2810	77	0,85	1,8	4,2	35	4x1,5	2,5
			400	7,0	2830	77	0,81	2,0	4,5			
			415	7,1	2845	77	0,77	2,2	4,6			
4OS40T405	4	5,5	380	9,5	2810	75	0,85	2,2	4,8	35	4x1,5	2,5
			400	9,5	2840	76	0,80	2,4	5,0			
			415	9,8	2850	75	0,76	2,6	5,0			
4OS55T405	5,5	7,5	380	13,2	2795	76	0,83	1,8	4,6	35	4x1,5	2,5
			400	13,3	2820	77	0,78	2,0	4,8			
			415	13,7	2840	77	0,73	2,2	4,9			
4OS75T405	7,5	10	380	17,9	2820	78	0,82	1,9	4,9	35	4x1,5	4
			400	18,1	2850	79	0,76	2,1	5,1			
			415	18,7	2860	78	0,71	2,3	5,1			

* Ts/Tn = starting torque/rated torque.

4OS-T-2p50_b_te

L4C Series

Liquid-cooled submersible motors, suitable for use with 4" borehole pumps. The choice of component materials ensures optimum operating performance. Made almost entirely of stainless steel. Motor adapter and coupling dimensions to NEMA standards.

Specifications

Power supply: single-phase and three-phase 50 and 60Hz
Power: 0.37 kW to 7.5 kW
Single-phase version:
0.37 to 4 kW 220-240V, 50 Hz (0.37 to 1.1 kW with built-in automatic reset overload protection)
Three-phase version:
0.37 to 5.5 kW 220-240 V, 50 Hz
0.37 to 7.5 kW 380-415 V, 50 Hz
Maximum overall diameter of pump (cable cover included): 93 mm
Maximum immersion depth: 300 metres
Maximum water temperature: +35°C.
Insulation class: F
Protection: IP68
Tolerances: +/-6%.
Extractable supply cable fitted with watertight connector.
Can also operate in a horizontal position provided the pump can develop an axial thrust of 100 N over the entire operating field.

Materials

Outer and inner sleeves, flanges: Stainless steel
Shaft extension: Stainless steel
Upper support: Cast-iron
Elastomers: NBR
Compensating diaphragm: EPDM
Bearings: Carbon-graphite
Cooling liquid: Demineralised water + antifreeze

Applications

Water supply

Pressure boosting

Irrigation

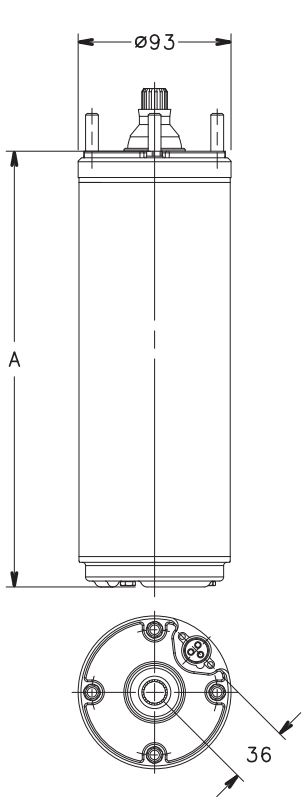
Rain water collection

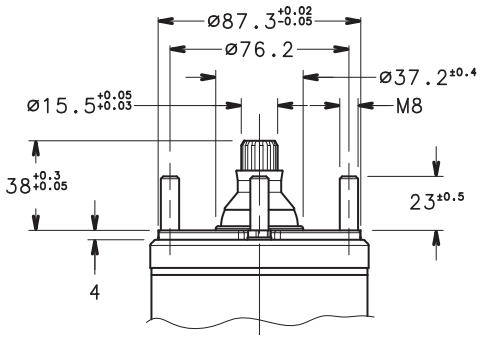
Fire-fighting



For a complete list of technical information, consult www.lowara.com

L4C SERIES MOTORS
Dimensions and weights at 50 Hz





MOTOR TYPE	RATED POWER kW	RATED POWER HP	DIMENSIONS mm A	WEIGHT kg
L4C03M235	0,37	0,5	236	7
L4C03T235-405			216	6,8
L4C05M235	0,55	0,75	266	7,6
L4C05T235-405			236	7
L4C07M235	0,75	1	286	8,2
L4C07T235-405			266	7,6
L4C11M235	1,1	1,5	331	10,7
L4C11T235-405			286	8,2
L4C15M235	1,5	2	393	12,5
L4C15T235-405			348	11,8
L4C22M235	2,2	3	413	14
L4C22T235-405			393	12,6
L4C30T235-405	3	4	544	20,4
L4C40M235	4	5,5	684	27,5
L4C40T235-405	4	5,5	614	23,5
L4C55T235-405	5,5	7,5	684	26,8
L4C75T235-405	7,5	10	764	29

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Single-phase operating characteristics at 50 Hz

MOTOR TYPE SINGLE-PHASE	RATED POWER kW	RATED POWER HP	RATED VOLTAGE V	CAPACITOR µF/450V	OPERATING FEATURES AT RATED POWER RATED CURRENT A	rpm	η %	cosφ	DIRECT STARTING Ts/Tn*	Is/In	MAX. WATER TEMPERATURE C	CABLE TYPE Ncxsez.(mm²)	L (m)
L4C03M235	0,37	0,5	220	16	3,2	2810	53	0,96	0,63	2,68	35	4x1,5	1,7
			230		3,3	2820	54	0,97	0,69	2,72			
			240		3,4	2830	50	0,91	0,75	2,76			
L4C05M235	0,55	0,75	220	20	4,3	2810	61	0,95	0,62	3,3	35	4x1,5	1,7
			230		4,6	2820	56	0,94	0,68	3,2			
			240		4,8	2830	54	0,90	0,74	3,26			
L4C07M235	0,75	1	220	30	6	2810	60	0,93	0,63	3,18	35	4x1,5	1,7
			230		6,2	2820	58	0,92	0,66	3,2			
			240		6,5	2830	56	0,85	0,75	3,2			
L4C11M235	1,1	1,5	220	40	8,1	2800	67	0,94	0,60	3,48	35	4x1,5	1,7
			230		8,1	2835	65	0,92	0,60	3,54			
			240		8,3	2850	63	0,87	0,62	3,62			
L4C15M235	1,5	2	220	50	10,4	2800	67	0,96	0,74	3,3	35	4x1,5	1,7
			230		10,4	2820	66	0,93	0,74	3,38			
			240		10,7	2835	64	0,90	0,76	3,46			
L4C22M235	2,2	3	220	70	15,4	2740	68	0,96	0,54	3,1	35	4x1,5	1,7
			230		15	2770	68	0,94	0,54	3,2			
			240		15,3	2790	66	0,91	0,54	3,3			
L4C40M235	4	5,5	220	90	24,5	2840	70	0,94	0,46	3,5	35	4x2	2,7
			230		25	2850	68	0,95	0,51	3,6			
			240		27,4	2860	65	0,84	0,60	3,4			

* Ts/Tn = starting torque/rated torque.

l4cm-2p50_e_te

L4C SERIES MOTORS
Three-phase operating characteristics at 50 Hz

MOTOR TYPE THREE-PHASE	RATED POWER		RATED VOLTAGE	OPERATING FEATURES AT RATED POWER				DIRECT STARTING		MAX. WATER TEMPERATURE	CABLE TYPE	
	kW	HP	V	RATED CURRENT A	rpm	η%	cosφ	Ts/Tn*	Is/In	C	Ncxsez.(mm²)	L (m)
L4C03T235	0,37	0,5	220	2,6	2810	51	0,69	2,7	3,7	35	4x1.5	1,7
			230	2,7	2820	53	0,7	3	3,7			
			240	3,1	2830	48	0,67	3,2	3,4			
L4C05T235	0,55	0,75	220	3,1	2820	61	0,77	2,8	4,3	35	4x1.5	1,7
			230	3,3	2830	60	0,71	3,1	4,2			
			240	3,5	2840	60	0,66	3,3	4,2			
L4C07T235	0,75	1	220	4	2820	65	0,77	2,9	5	35	4x1.5	1,7
			230	4,1	2830	63	0,73	3,2	5,1			
			240	4,5	2840	63	0,66	3,5	4,8			
L4C11T235	1,1	1,5	220	5,6	2820	62	0,8	3	4	35	4x1.5	1,7
			230	5,7	2830	64	0,76	3,3	4,2			
			240	6,2	2840	63	0,73	3,6	4			
L4C15T235	1,5	2	220	7,4	2820	68	0,77	3,1	4,2	35	4x1.5	1,7
			230	7,6	2830	68	0,72	3,4	4,3			
			240	8	2840	67	0,68	3,7	4,3			
L4C22T235	2,2	3	220	10	2810	72	0,8	3	4,3	35	4x1.5	1,7
			230	10,2	2820	71	0,78	3,2	4,4			
			240	10,7	2830	70	0,7	3,5	4,4			
L4C30T235	3	4	220	13,7	2830	75	0,77	3	4,6	35	4x1.5	2,7
			230	14,3	2840	74	0,71	3,3	4,6			
			240	15,2	2850	70	0,68	3,5	4,5			
L4C40T235	4	5,5	220	16,4	2840	76	0,81	3,10	5,6	35	4x2	2,7
			230	17,3	2850	75	0,79	3,40	5,6			
			240	18,2	2860	72	0,74	3,70	5,5			
L4C55T235	5,5	7,5	220	23,4	2840	78	0,79	3	5,4	35	4x2	2,7
			230	24,2	2850	77	0,74	3,4	5,5			
			240	25	2860	76	0,7	3,6	5,5			
L4C03T405	0,37	0,5	380	1,5	2810	51	0,69	2,7	3,8	35	4x1.5	1,7
			400	1,6	2820	53	0,7	3	3,8			
			415	1,8	2830	48	0,67	3,2	3,4			
L4C05T405	0,55	0,75	380	1,8	2820	61	0,77	2,8	4,2	35	4x1.5	1,7
			400	1,9	2830	60	0,71	3,1	4,2			
			415	2	2840	60	0,66	3,3	4,1			
L4C07T405	0,75	1	380	2,3	2820	65	0,77	2,9	5	35	4x1.5	1,7
			400	2,4	2830	63	0,73	3,2	5			
			415	2,6	2840	63	0,66	3,5	4,8			
L4C11T405	1,1	1,5	380	3,3	2820	62	0,8	3	4	35	4x1.5	1,7
			400	3,4	2830	64	0,76	3,3	4,1			
			415	3,6	2840	63	0,73	3,6	4			
L4C15T405	1,5	2	380	4,3	2820	68	0,77	3,1	4,2	35	4x1.5	1,7
			400	4,4	2830	68	0,72	3,4	4,3			
			415	4,6	2840	67	0,68	3,7	4,3			
L4C22T405	2,2	3	380	5,8	2810	72	0,8	3	4,1	35	4x1.5	1,7
			400	5,9	2820	71	0,78	3,2	4,4			
			415	6,2	2830	70	0,7	3,5	4,3			
L4C30T405	3	4	380	7,9	2830	75	0,77	3	4,5	35	4x1.5	2,7
			400	8,3	2840	74	0,71	3,3	4,6			
			415	8,8	2850	70	0,68	3,5	4,5			
L4C40T405	4	5,5	380	9,5	2840	76	0,81	3,1	5,6	35	4x1.5	2,7
			400	10	2850	75	0,79	3,4	5,6			
			415	10,5	2860	72	0,74	3,7	5,5			
L4C55T405	5,5	7,5	380	13,5	2840	78	0,79	3	5,4	35	4x1.5	2,7
			400	14	2850	77	0,74	3,4	5,5			
			415	14,5	2860	76	0,7	3,6	5,5			
L4C75T405	7,5	10	380	17	2840	80	0,84	2,6	4,7	35	4x2	3,5
			400	17,4	2850	79	0,79	2,9	4,8			
			415	18,1	2860	76	0,75	3,1	4,8			

* Ts/Tn = starting torque/rated torque.

l4ct-2p50_c_te

L6C Series

Liquid-cooled submersible motors, suitable for use with 6" borehole pumps. The choice of component materials ensures optimum operating performance. Made almost entirely of stainless steel. Motor adapter and coupling dimensions to NEMA standards.

Specifications

Power supply: three-phase 50 and 60 Hz
Power: 4 kW to 37 kW 380-415 V; overload protection to be provided by user and installed in the control box (see control box section)
Maximum overall diameter of pump (cable cover included): 140 mm
Maximum immersion depth: 250 metres
Maximum water temperature: +35°C.
Insulation class: F
Protection: IP68
Tolerances: +/10%
Extractable supply cable fitted with watertight connector
Can also operate in a horizontal position provided the pump can develop an axial thrust of 250 N over the entire operating field.

Materials

Outer and inner sleeves, flanges: Stainless steel
Shaft extension: Stainless steel
Upper support: Cast-iron
Elastomers: NBR
Compensating diaphragm: EPDM
Bearings: Carbon-graphite
Cooling liquid: Demineralised water + antifreeze

Applications

Water supply

Pressure boosting

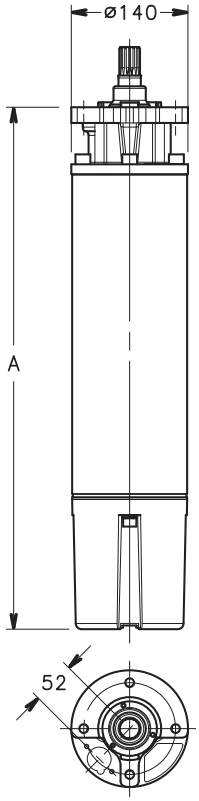
Irrigation

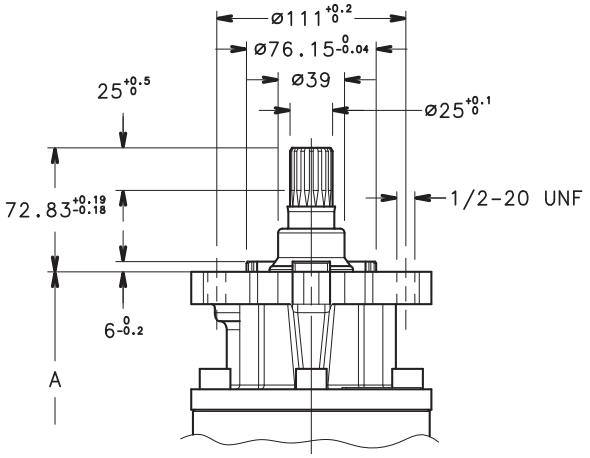
Fire-fighting



For a complete list of technical information, consult www.lowara.com

L6C SERIES MOTORS
Dimensions and weights at 50 Hz





MOTOR TYPE	RATED POWER kW	RATED POWER HP	DIMENSIONS mm A	WEIGHT kg
L6C40T235-405	4	5,5	600	39,4
L6C55T235-405	5,5	7,5	631	43,2
L6C75T235-405	7,5	10	660	45,2
L6C93T235-405	9,3	12,5	685	48,8
L6C110T235-405	11	15	730	52,8
L6C150T235-405	15	20	785	59
L6C185T235-405	18,5	25	860	66,4
L6C220T235-405	22	30	920	72,4
L6C300T405	30	40	1050	85
L6C370T405	37	50	1180	98

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L6C SERIES MOTORS
Three-phase operating characteristics at 50 Hz

MOTOR TYPE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER	CABLE TYPE	
				RATED CURRENT						TEMPERATURE	Nc x sec	L
THREE-PHASE	kW	HP	V	A	rpm	%	cos	Ts/Tn*	Is/In	°C	mm^2	m
L6C40T235	4	5,5	220	17,8	2825	75	0,8	1,7	3,9	35	4x4	4
			230	18,4	2845	74	0,75	1,7	3,9			
			240	19,1	2860	74	0,7	1,7	3,8			
L6C55T235	5,5	7,5	220	24,1	2820	77	0,8	1,8	3,8	35	4x4	4
			230	24,2	2845	76	0,75	1,8	3,8			
			240	25,3	2860	76	0,71	1,8	3,6			
L6C75T235	7,5	10	220	30,5	2820	78	0,82	2	3,9	35	4x4	4
			230	31,2	2840	77	0,78	2	3,9			
			240	31,7	2850	77	0,73	2	4			
L6C93T235	9,3	12,5	220	37,6	2820	78	0,82	2,1	3,8	35	4x6	4
			230	38,1	2840	79	0,8	2,1	3,9			
			240	39,5	2850	78	0,79	2,15	3,9			
L6C110T235	11	15	220	43,3	2815	77	0,87	2,1	4,5	35	4x6	4
			230	44,2	2840	78	0,82	2,1	4,5			
			240	45,0	2845	77	0,79	2,15	4,5			
L6C150T235	15	20	220	58,0	2810	80	0,84	2,2	4,1	35	4x8	4
			230	57,9	2840	81	0,8	2,2	4,1			
			240	59,2	2850	81	0,76	2,25	4,1			
L6C185T235	18,5	25	220	70,1	2820	81	0,83	2,3	4,3	35	4x8	4
			230	71,0	2845	82	0,8	2,3	4,3			
			240	72,7	2855	82	0,73	2,35	4,3			
L6C220T235	22	30	220	82,3	2810	81	0,88	2,3	4	35	4x8	4
			230	81,4	2825	82	0,84	2,3	4,1			
			240	82,3	2835	82	0,8	2,35	4,2			
L6C40T405	4	5,5	380	10,3	2825	75	0,8	1,7	3,9	35	4x4	4
			400	10,6	2845	74	0,75	1,7	3,9			
			415	11	2860	74	0,7	1,7	3,8			
L6C55T405	5,5	7,5	380	13,9	2820	77	0,8	1,8	3,8	35	4x4	4
			400	14	2845	76	0,75	1,8	3,8			
			415	14,6	2860	76	0,71	1,8	3,6			
L6C75T405	7,5	10	380	17,6	2820	78	0,82	2	3,9	35	4x4	4
			400	18	2840	77	0,78	2	3,9			
			415	18,3	2850	77	0,73	2	4			
L6C93T405	9,3	12,5	380	21,7	2820	78	0,82	2,1	3,8	35	4x4	4
			400	22	2840	79	0,8	2,1	3,9			
			415	22,8	2850	78	0,79	2,15	3,9			
L6C110T405	11	15	380	25	2815	77	0,87	2,1	4,5	35	4x4	4
			400	25,5	2840	78	0,82	2,1	4,5			
			415	26	2845	77	0,79	2,15	4,5			
L6C150T405	15	20	380	33,5	2810	80	0,84	2,2	4,1	35	4x4	4
			400	33,4	2840	81	0,8	2,2	4,1			
			415	34,2	2850	81	0,76	2,25	4,1			
L6C185T405	18,5	25	380	40,5	2820	81	0,83	2,3	4,3	35	4x6	4
			400	41	2845	82	0,8	2,3	4,3			
			415	42	2855	82	0,73	2,35	4,3			
L6C220T405	22	30	380	47,5	2810	81	0,88	2,3	4	35	4x6	4
			400	47	2825	82	0,84	2,3	4,1			
			415	47,5	2835	82	0,8	2,35	4,2			
L6C300T405	30	40	380	63	2810	82	0,89	2,4	4	35	4x8	4
			400	61,5	2830	82	0,85	2,4	4,1			
			415	63,5	2840	81	0,8	2,45	3,9			
L6C370T405	37	50	380	79,5	2820	82	0,87	2	3,7	35	4x8	4
			400	79,3	2830	81	0,84	2,2	3,9			
			415	80	2840	81	0,8	2,3	4			

* Ts/Tn = ratio between starting torque and nominal torque.

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L6W/A Series

Rewindable water-filled submersible motors, suitable for use with 6" borehole pumps.
The choice of component materials and the sturdy construction ensure optimum operating performance, superior quality, reliability and easy installation. Motor adapter and coupling dimensions to NEMA standards.

Specifications

Power supply: three-phase 50 and 60 Hz
Power: 4 kW to 37 kW, 380-415V, 50Hz
Motors with double cable outlet for star-delta starting can be supplied on request
Maximum overall diameter of pump (cable cover included): 144 mm
Maximum immersion depth: 350 m
Maximum water temperature: +30°C.
Insulation class: Y
Protection: IP68
Tolerances: +/10%
Power cable: Flat cable ACS-approved

Materials

Outer sleeve: Stainless steel
Upper support: Cast-iron
Thrust bearing: Graphite (Kingsbury type)
Mechanical seal: Aluminium oxide - Graphite
Elastomers: NBR
Compensating diaphragm: EPDM
Cooling liquid: Water + antifreeze

Applications

Water supply

Pressure boosting

Irrigation

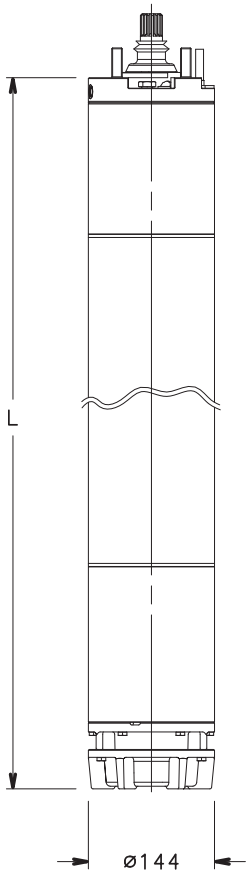
Fire-fighting

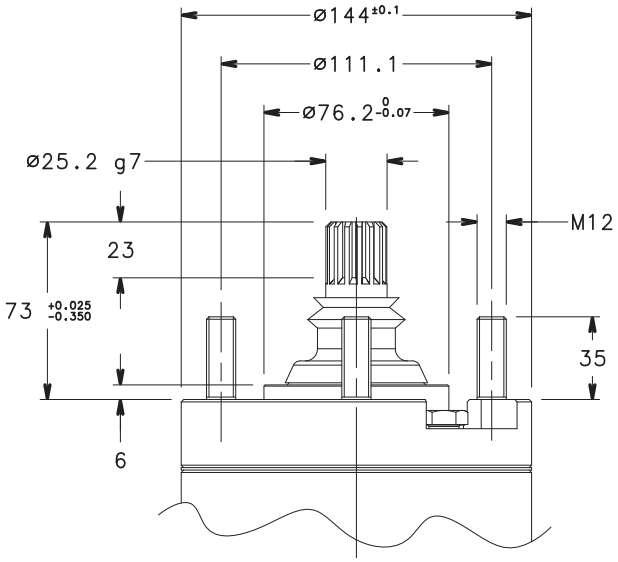
Available on request:
– Motors with double cable outlet for star/delta start
– L6WN series: complete range available realized of AISI 316 stainless steel
– L6WR series: complete range available realized of Duplex stainless steel
– HT series: complete range available for all the L6W/N/R construction, realized for applications in high temperature environments (up to 60°C) or under inverter
– Silicon Carbide mechanical seal
– Temperature sensor PT 100 / PTC retrofittable kits
– Special voltages



For a complete list of technical information, consult www.lowara.com

L6W SERIES MOTORS
Dimensions and weights at 50 Hz





MOTOR TYPE	RATED POWER		DIMENSIONS (mm)	WEIGHT
	kW	HP	L	kg
L6W40T405	4	5,5	583	38
L6W55T405	5,5	7,5	613	42
L6W75T405	7,5	10	653	46
L6W93T405	9,3	12,5	683	50
L6W110T405	11	15	723	54
L6W130T405	13	17,5	763	58
L6W150T405	15	20	833	66
L6W185T405	18,5	25	903	74
L6W220T405	22	30	943	77
L6W260T405	26	35	1071	86
L6W300T405	30	40	1151	94
L6W370T405	37	50	1301	108

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L6W SERIES MOTORS
Three-phase operating characteristics at 50 Hz

MOTOR TYPE THREE-PHASE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER RATED CURRENT				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE Sec. (mm^2)		
	kW	HP	V	A	rpm	η %	cosφ	Ts/Tn*	Is/In	°C	DOL	Y/D	L (m)
L6W40T405	4	5,5	380	9,62	2845	69,5	0,91	0,96	3,64	30	4	-	4
			400	9,26	2865	71,0	0,88	1,12	3,99				
			415	8,94	2880	72,2	0,86	1,15	4,27				
L6W55T405	5,5	7,5	380	12,7	2850	74,0	0,89	1,28	4,27	30	4	4	4
			400	12,4	2877	75,7	0,84	1,31	4,69				
			415	12,3	2885	74,7	0,83	1,54	4,82				
L6W75T405	7,5	10	380	17,1	2830	74,4	0,9	1,18	4,07	30	4	4	4
			400	16,37	2862	76,0	0,87	1,40	4,74				
			415	16,4	2865	75,7	0,84	1,43	4,65				
L6W93T405	9,3	12,5	380	20,5	2835	76,6	0,89	1,51	4,57	30	4	4	4
			400	19,96	2862	78,2	0,86	1,67	5,01				
			415	19,8	2870	77,6	0,83	1,82	5,16				
L6W110T405	11	15	380	24,8	2825	76,3	0,89	1,36	4,27	30	4	4	4
			400	23,46	2852	78,0	0,86	1,60	4,73				
			415	24,0	2860	77,4	0,82	1,64	4,81				
L6W130T405	13	17,5	380	28,7	2820	76,6	0,9	1,37	4,38	30	4	4	4
			400	27,13	2857	78,9	0,88	1,46	4,93				
			415	27,5	2860	77,9	0,84	1,66	4,99				
L6W150T405	15	20	380	32,4	2830	76,1	0,89	1,62	4,83	30	4	4	4
			400	31,45	2856	80,6	0,85	1,72	5,24				
			415	31,1	2865	80,3	0,84	1,96	5,48				
L6W185T405	18,5	25	380	40,0	2835	80,3	0,87	1,80	5,10	30	6	4	4
			400	37,6	2863	82,4	0,86	1,97	5,64				
			415	39,6	2865	80,4	0,81	2,17	5,63				
L6W220T405	22	30	380	48,5	2835	78,7	0,88	1,05	4,59	30	6	4	4
			400	46,5	2880	82,2	0,83	1,20	5,38				
			415	45,4	2875	81,8	0,82	1,26	5,30				
L6W260T405	26	35	380	56,2	2865	80,2	0,88	1,03	4,57	30	6	4	4
			400	55,43	2883	82,7	0,82	1,76	5,17				
			415	53,4	2890	81,9	0,83	1,24	5,25				
L6W300T405	30	40	380	64,7	2855	80,5	0,88	1,08	4,59	30	10	4	4
			400	62,29	2890	83,1	0,83	1,19	5,32				
			415	61,4	2885	82,1	0,83	1,30	5,28				
L6W370T405	37	50	380	81,7	2840	78,6	0,88	1,00	4,24	30	10	4	4
			400	79,11	2871	81,2	0,83	1,15	4,60				
			415	78,8	2875	79,8	0,82	1,20	4,81				

* Ts/Tn = ratio between starting torque and nominal torque.

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L8W Series

Rewindable water-filled submersible motors, suitable for use with 8" borehole pumps.
The choice of component materials and the sturdy construction ensure optimum operating performance, superior quality, reliability and easy installation.
Motor adapter and coupling dimensions to NEMA standards.

Specifications

Power supply: three-phase 50 and 60 Hz
Power: 30 kW to 93 kW, 380-415V, 50Hz
Motors with double cable outlet for stardelta
starting can be supplied on request
Maximum overall diameter of pump (cable cover included): 192 mm
Maximum immersion depth: 350 m
Maximum water temperature: +30°C.
Insulation class: Y
Protection: IP68
Tolerances: +/10%
Power cable: ACS-approved

Materials

Outer sleeve: Stainless steel
Upper support: Cast-iron
Thrust bearing: graphite (Kingsbury type)
Mechanical seal: Aluminium oxide - Graphite
Elastomers: NBR
Compensating diaphragm: EPDM
Cooling liquid: Water + antifreeze

Applications

Water supply

Pressure boosting

Irrigation

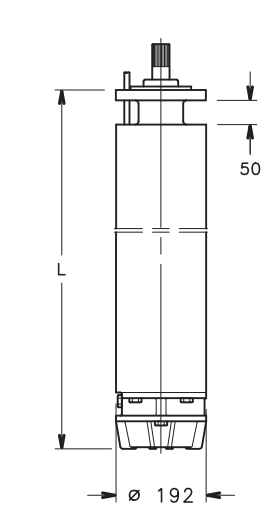
Fire-fighting

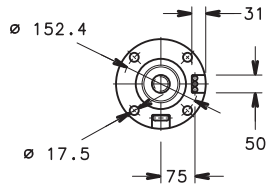
Available on request:
– Motors with double cable outlet for star/delta start
– L8WN series: complete range available realized of AISI 316 stainless steel
– L8WR series: complete range available realized of Duplex stainless steel
– HT series: complete range available for all the L8W/N/R construction, realized for applications in high temperature environments (up to 60°C) or under inverter
– Silicon Carbide mechanical seal
– Temperature sensor PT 100 / PTC
– Special voltages

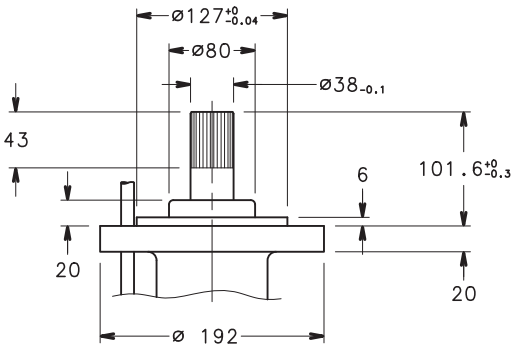


For a complete list of technical information, consult www.lowara.com

L8W SERIES MOTORS
Dimensions and weights at 50 Hz







MOTOR TYPE	RATED POWER		DIMENSIONS (mm)	WEIGHT
	kW	HP	L	kg
L8W300T405	30	40	1015	145
L8W370T405	37	50	1105	162
L8W450T405	45	60	1195	180
L8W520T405	52	70	1285	200
L8W550T405	55	75	1325	206
L8W600T405	60	80	1375	217
L8W670T405	67	90	1465	235
L8W750T405	75	100	1555	252
L8W830T405	83	110	1615	265
L8W930T405	93	125	1755	290

l8w-2p50_a_td

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Three-phase operating characteristics at 50 Hz

MOTOR TYPE THREE-PHASE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE Sec. (mm^2)		
	kW	HP	V	RATED CURRENT A	rpm	η %	cosφ	Ts/Tn*	Is/In	°C	DOL	Y/D	L (m)
L8W300T405	30	40	380	65,0	2905	83,0	0,85	1,20	4,67	30	10	6	5,5
			400	62,0	2900	83,0	0,84	1,15	4,69				
			415	59,0	2900	83,0	0,84	1,09	4,70				
L8W370T405	37	50	380	81,0	2840	80,5	0,87	1,04	4,19	30	10	6	5,5
			400	78,5	2860	81,0	0,84	1,14	4,54				
			415	76,0	2870	81,5	0,83	1,23	4,88				
L8W450T405	45	60	380	92,0	2850	82,0	0,87	0,92	3,72	30	16	6	5,5
			400	89,0	2870	82,0	0,85	1,01	3,98				
			415	89,0	2880	83,5	0,83	1,09	4,23				
L8W520T405	52	70	380	110	2840	82,0	0,86	1,14	3,90	30	16	6	5,5
			400	108	2865	82,0	0,85	1,15	4,20				
			415	104	2885	82,5	0,82	1,16	4,50				
L8W550T405	55	75	380	118	2840	82,0	0,87	1,26	3,57	30	16	10	5,5
			400	114	2870	82,0	0,85	1,27	3,88				
			415	110	2885	82,5	0,83	1,27	4,19				
L8W600T405	60	80	380	124	2855	82,0	0,87	1,12	4,18	30	16	10	5,5
			400	120	2875	82,5	0,85	1,23	4,49				
			415	118	2885	83,5	0,83	1,33	4,80				
L8W670T405	67	90	380	138	2850	82,5	0,88	0,98	4,22	30	25	10	5,5
			400	133	2870	83,0	0,86	1,07	4,52				
			415	132	2885	83,5	0,83	1,16	4,82				
L8W750T405	75	100	380	156	2860	82,0	0,87	0,92	4,10	30	25	16	5,5
			400	152	2875	82,5	0,85	1,01	4,41				
			415	148	2885	83,0	0,82	1,10	4,72				
L8W830T405	83	110	380	172	2860	83,0	0,87	0,91	4,12	30	35	16	5,5
			400	168	2870	83,5	0,84	1,00	4,39				
			415	163	2880	84,0	0,82	1,08	4,66				
L8W930T405	93	125	380	192	2850	83,0	0,87	0,84	3,38	30	35	16	5,5
			400	186	2860	83,5	0,85	0,92	3,84				
			415	180	2885	84,0	0,83	1,00	4,30				

* Ts/Tn = ratio between starting torque and nominal torque.

l8w-2p50-en_d_te

L10W Series

Rewindable water-filled submersible motors, suitable for use with 10" borehole pumps. The choice of component materials and the sturdy construction ensure optimum operating performance, superior quality, reliability and easy installation.

Available on request:
- Material versions: 316 or Duplex
- HT, high temperatur environments versions
- Temperature sensor PT 100
- Silicon carbide mechanical seal
- Inverter applications
- Horizontal installation For a

Specifications

Power supply: three-phase 50 and 60 Hz
Power: 93 kW to 150 kW, 380-415V, 50Hz
Motors with double cable outlet for stardelta
starting can be supplied on request
Maximum overall diameter of
pump (cable cover included): 236 mm
Maximum immersion depth: 350 m
Maximum water temperature: +25°C.
Insulation class: Y
Protection: IP68
Tolerances: +/10%
Power cable: ACS-approved

Materials

Outer sleeve: Stainless steel
Upper support: Cast-iron
Thrust bearing: graphite (Kingsbury type)
Mechanical seal: Aluminium oxide - Graphite
Elastomers: NBR
Compensating diaphragm: EPDM
Cooling liquid: Water + antifreeze

Applications

Water supply

Pressure boosting

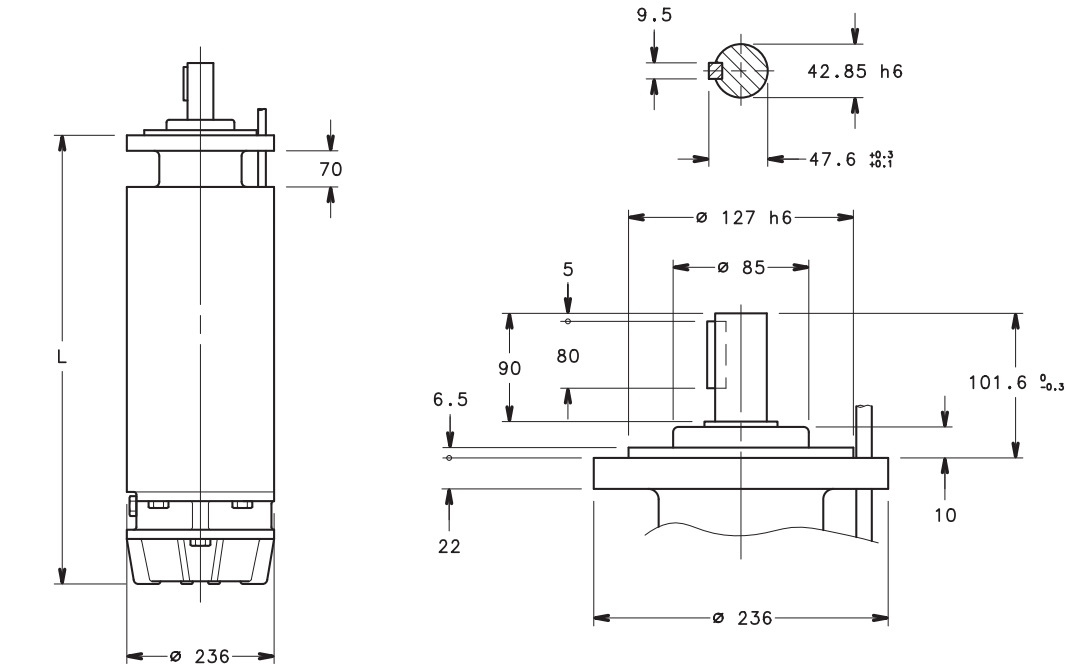
Irrigation

Fire-fighting



For a complete list of technical information, consult www.lowara.com

L10W SERIES MOTORS
Dimensions and weights at 50 Hz



MOTOR TYPE	RATED POWER		DIMENSIONS (mm)	WEIGHT
	kW	HP	L	kg
L10W930T405	93	125	1562	360
L10W1100T405	110	150	1702	401
L10W1300T405	130	175	1852	448
L10W1500T405	150	200	1982	487

l10w-2p50_a_td

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Three-phase operating characteristics at 50 Hz

MOTOR TYPE THREE-PHASE	RATED POWER		RATED VOLTAGE	OPERATING FEATURES AT RATED POWER				DIRECT STARTING		MAX. WATER TEMPERATURE	CABLE TYPE Sez. (mm^2)		
	kW	HP	V	RATED CURRENT A	rpm	η %	cosφ	Ts/Tn*	Is/In	C	DOL	Y/D	L (m)
L10W930T405	93	125	380	191	2895	83,0	0,87	1,02	5,14	25	35	25	5
			415	180	2915	84,0	0,84	1,21	5,95				
L10W1100T405	110	150	380	235	2900	83,5	0,86	1,20	4,77	25	50	25	5
			415	220	2920	84,5	0,82	1,43	5,57				
L10W1300T405	130	175	380	270	2895	84,0	0,86	1,29	4,84	25	50	25	5
			415	255	2915	85,5	0,83	1,54	5,60				
L10W1500T405	150	200	380	308	2905	83,0	0,86	1,26	4,77	25	70	25	5
			415	285	2925	84,0	0,84	1,50	5,63				

* Ts/Tn = starting torque/rated torque.

l10w-2p50_a_te

L12W Series

Rewindable water-filled submersible motors, suitable for use with 12" borehole pumps. The choice of component materials and the sturdy construction ensure optimum operating performance, superior quality, reliability and easy installation.

Specifications

Power supply: three-phase 50 and 60 Hz
Power: 185 kW to 300 kW, 380-415V, 50Hz
Motors with double cable outlet for star-delta starting can be supplied on request
Maximum overall diameter of pump (cable cover included): 276 mm
Maximum immersion depth: 350 m
Maximum water temperature: +25°C.
Insulation class: Y
Protection: IP68
Tolerances: +/10%
Power cable: ACS-approved

Materials

Outer sleeve: Stainless steel
Upper support: Cast-iron
Thrust bearing: graphite (Kingsbury type)
Mechanical seal: Aluminium oxide - Graphite
Elastomers: NBR
Compensating diaphragm: EPDM
Cooling liquid: Water + antifreeze

Applications

Water supply

Pressure boosting

Irrigation

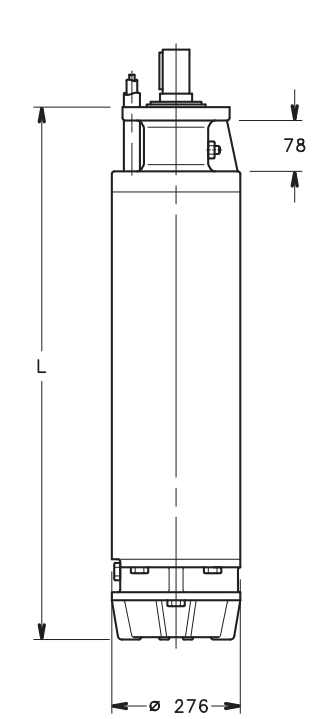
Fire-fighting

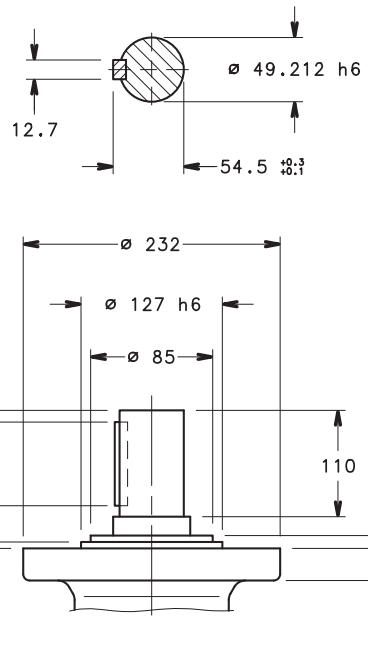
Available on request:
- Material versions: 316 or Duplex
- HT, high temperatur environments versions
- Temperature sensor PT 100
- Silicon carbide mechanical seal
- Inverter applications
- Horizontal installati

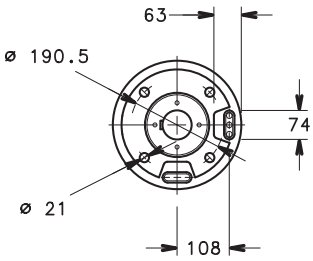


For a complete list of technical information, consult www.lowara.com

L12W SERIES MOTORS
Dimensions and weights at 50 Hz







MOTOR TYPE	RATED POWER		DIMENSIONS (mm)	WEIGHT
	kW	HP	L	kg
L12W185OT405	185	250	1739	552
L12W2200T405	220	300	1889	616
L12W2600T405	260	350	2039	680
L12W3000T405	300	400	2189	745

l12w-2p50_a_td

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Three-phase operating characteristics at 50 Hz

MOTOR TYPE THREE-PHASE	RATED POWER		RATED VOLTAGE	OPERATING CHARACTERISTICS AT RATED POWER				DIRECT START		MAX WATER TEMPERATURE	CABLE TYPE Sec. (mm^2)		
				RATED CURRENT									
	kW	HP	V	A	rpm	η %	cosφ	Ts/Tn*	Is/In	°C	DOL	Y/D	L (m)
L12W1850T405	185	250	380	380	2895	84,0	0,87	1,28	5,57	25	70	50	5
L12W2200T405	220	300	380	470	2910	84,5	0,86	1,04	4,60	25	95	50	5
L12W2600T405	260	350	380	525	2875	85,0	0,87	0,96	4,10	25	120	70	5
L12W3000T405	300	400	380	620	2880	85,0	0,87	0,90	4,10	25	2x70	70	5

* Ts/Tn = ratio between starting torque and nominal torque.

l12w-2p50-en_b_te

Booster Pump Package 5

Residential

FIXED SPEED

SPHERE UNIT SERIES
Single-phase booster systems 457

BLOCK UNIT SERIES
Single-phase booster systems 458

GENYO SYSTEM SERIES
Single-phase booster systems 460

GXS20 SERIES
Twin-pump single-phase 463

GMD20 SERIES
Twin-pump three-phase 464

VARIABLE SPEED

GTKS SERIES
Teknospeed variable speed twin-pumps units, single-phase 465

GHV SERIES
Twin-pump pressure booster units, single-phase and three-phase 466

Commercial

FIXED SPEED

GS SERIES
Booster sets, three-phase 470

VARIABLE SPEED

GHV SERIES
Booster sets, three-phase 484

SERIE GV
Booster sets, three-phase 494

SPHERE UNIT Series

Small built-in pressure boosters, fully automatic. These units consist of a single phase pump, diaphragm tank, pressure switch, pressure gauge and various connectors suitable for commercial water systems. The units are fully assembled and ready to be connected to the building's water system.

Choice of units with peripheral (PM), self-priming (BGM), horizontal singleimpeller (CEAM) and horizontal multiple-impeller (HM) centrifugal pumps.

Specifications

Delivery: up to 110 l/min (6.6 m^3/h)
Head: up to 56 metres (5.6 bar)
Power supply: single-phase
50 and 60 Hz
Motor starting: D.O.L.
Power: up to 1.1 kW
Water temperature: 0°C to +40°C

Materials

Pump: Stainless steel
Tank: Enamelled steel (stainless steel available on request); butyl membrane

Applications

Pressure boosting in water systems for domestic use, lawn sprinkling and washing

Pumping of non-aggressive liquids in industrial plants



For a complete list of technical information, consult www.lowara.com

BLOCK UNIT Series

Small built-in pressure boosters, fully automatic. These units consist of a single phase pump, diaphragm tank, pressure switch, pressure gauge and various connectors suitable for commercial water systems. The units are fully assembled and ready to be connected to the building's water system.

Choice of units with self-priming (BGM) or horizontal single-impeller (CEAM) centrifugal pumps.

Specifications

Delivery: up to 100 l/min (6 m^3/h)
Head: up to 50 metres (5 bar)
Power supply: single-phase
50 and 60 Hz
Motor starting: D.O.L.
Power: up to 1.1 kW.
Water temperature: 0°C to +40°C
Pump type: horizontal
Control: pressure switch
Tank: 24l horizontal cylindrical

Materials

Pump: Stainless steel
Tank: Enamelled Steel; butyl membrane

Applications

Pressure boosting in water systems for domestic use, lawn sprinkling and washing

Pumping of non-aggressive liquids in industrial plants



For a complete list of technical information, consult www.lowara.com

SPHERE UNIT, BLOCK UNIT SERIES
Technical specifications

Type	Rated Power		Input Current	Set up	Flow	Approximative Overall Dimensions in mm			Weight
								Height	
	kW	HP	A	bar	l/min	A	B	H	Kg
Grupposfera PM 16	0,3	0,4	2,4	1,4 - 2,8	10 - 37	390	470	635	14,4
Grupposfera PM 21	0,37	0,5	2,8	1,4 - 3,0	10 - 40	390	470	635	15,0
Grupposfera PM 30	0,5	0,7	4	2,0 - 3,5	10 - 50	390	470	635	16,5
Grupposfera PM 40	0,6	0,8	5,3	2,5 - 4,0	15 - 50	390	470	635	17,0
Grupposfera CEAM 70/3	0,37	0,5	2,7	1,2 - 2,0	30 - 80	390	580	720	17,0
Grupposfera CEAM 70/5	0,55	0,75	4,5	1,8 - 2,8	30 - 80	390	580	720	18,0
Grupposfera CEAM 80/5	0,75	1	4,8	1,8 - 2,8	30 - 100	390	580	720	19,0
Grupposfera CAM 70/33	0,75	1	5	2,4 - 3,8	30 - 80	390	470	720	21,0
Grupposfera CAM 70/34	0,9	1,2	6,2	3,2 - 4,3	30 - 80	390	470	720	23,0
Grupposfera CAM 70/45	1,1	1,5	8	3,6 - 5,2	30 - 80	390	470	720	25,0
Grupposfera CAM 120/33	1,1	1,5	7,5	3,0 - 4,0	50 - 150	390	470	720	25,0
Grupposfera CAM 120/35	1,5	2	9,9	3,2 - 4,6	50 - 150	390	470	720	30,0
Grupposfera CAM 120/55	2,2	3	11,7	4,2 - 5,6	50 - 150	390	470	720	32,0
Grupposfera CAM 200/33	2,2	3	10,8	3,0 - 4,0	80 - 210	390	470	720	32,0
Grupposfera BGM 3 *	0,55	0,75	3	1,9 - 3,0	10 - 50	390	580	720	17,0
Grupposfera BGM 5 *	0,55	0,75	4,3	2,5 - 3,5	10 - 60	390	580	720	18,0
Grupposfera BGM 7 *	0,75	1	5	2,8 - 4,1	20 - 60	390	580	720	19,0
Grupposfera BGM 9 *	0,9	1,2	5,6	3,2 - 4,2	20 - 65	390	580	720	20,0
Grupposfera BGM 11 *	1,1	1,5	6,5	3,4 - 4,7	20 - 70	390	580	720	21,0
Grupposfera 2HM3	0,3	0,4	2,3	1,2 - 2,0	20 - 70	390	470	720	14,0
Grupposfera 2HM4	0,45	0,6	2,9	2,0 - 3,3	20 - 70	390	470	720	14,0
Grupposfera 2HM5	0,55	0,75	3,7	3,2 - 4,4	20 - 70	390	470	720	15,0
Grupposfera 2HM7	0,75	1	5,1	3,6 - 5,6	20 - 70	390	470	720	15,0
Grupposfera 4HM4	0,45	0,6	2,8	1,2 - 2,0	40 - 120	390	470	720	15,0
Grupposfera 4HM5	0,55	0,75	3,8	1,8 - 3,0	40 - 120	390	470	720	15,0
Grupposfera 4HM7	0,75	1	5,7	2,4 - 4,0	40 - 120	390	470	720	18,2
Grupposfera 4HM9	0,9	1,2	6,5	2,8 - 5,0	40 - 120	390	470	720	18,2
Block CEAM 70/3	0,37	0,5	2,7	1,2 - 2,0	30 - 80	290	660	610	20,0
Block CEAM 70/5	0,55	0,75	4,2	1,8 - 2,8	30 - 80	290	660	610	21,0
Block CEAM 80/5	0,75	1	4,8	1,8 - 2,8	30 - 100	290	660	610	22,0
Block CEAM 210/4	1,5	2	8,6	1,2 - 2,2	120 - 300	290	660	610	26,0
Block CAM 70/33	0,75	1	5	2,4 - 3,8	30 - 80	290	660	610	25,0
Block CAM 70/34	1,1	1,5	8	3,2 - 4,3	30 - 80	290	660	610	26,0
Block BGM 3 *	0,55	0,75	3	1,9 - 3,0	10 - 50	290	660	610	20,0
Block BGM 5 *	0,55	0,75	4,3	2,5 - 3,5	10 - 60	290	660	610	21,0
Block BGM 7 *	0,75	1	5	2,8 - 4,1	20 - 60	290	660	610	22,0
Block BGM 9 *	0,9	1,2	5,6	3,2 - 4,2	20 - 65	290	660	610	23,0
Block BGM 11 *	1,1	1,5	6,5	3,4 - 4,7	20 - 70	290	660	610	25,0

Gsfera_a_th

* Specially suited for suction from buried tanks or wells.

The suction port is threaded Rp 1"1/4 (Rp 1" for PM 16 and PM 30).

The delivery port is threaded Rp 1" for all pumps.

N.B.: After the unit has been installed, the diaphragm tank air precharge must be set to a value 0.2 bar lower than the minimum pressure switch set-point.

GENYO SYSTEM Series

Small built-in pressure boosters, fully automatic. These units consist of a single phase pump together with Genyo device suitable for residential water systems. The units are fully assembled and ready to be connected to the building's water system.

All models use one of the three executions (F12, F15 or F22) of GENYO 8A device, depending from the every single hydraulic performance and the requirement specified from the electronic device:

GENYO 8A/F12 F12: 8A max Input current – 1.2 bar starting pressure

GENYO 8A/F15 F15: 8A max Input current – 1.5 bar starting pressure

GENYO 8A/F22 F22: 8A max Input current – 2.2 bar starting pressure

Choice of units with peripheral (P), self-priming (BG), twin-impeller (CA) and horizontal multistage (HM-HMS) pumps.

Specifications

Delivery: up to 120 l/min (7,2 m^3/h)
Head: up to 53 metres (5,1 bar)
Power supply: single-phase 50 and 60 Hz
Motor starting: D.O.L.
Power: up to 1.1 kW.
Water temperature: 0°C to +40°C

Materials

Pump: Stainless steel and cast iron

Applications

Pressure boosting in water systems for domestic use, lawn sprinkling and washing



For a complete list of technical information, consult www.lowara.com

GENYO SYSTEM SERIES
Technical specifications

Type	Rated power		Voltage	Input Current	Set up	Flow	Head	Weight
	kW	HP	V	A	bar	Q [l/min]	H [m]	Kg
GENYO PM16/F15	0,30	0,40	1 x 220-240	2,2	1,5	10 ÷ 37	33,0 ÷ 5,0	9,6
GENYO 2HM3/F12	0,30	0,40	1 x 220-240	2,34	1,2	20 ÷ 70	21,4 ÷ 9,4	8,0
GENYO 2HM4/F15	0,45	0,60	1 x 220-240	2,92	1,5	20 ÷ 70	32 ÷ 14,5	8,9
GENYO 2HM5/F22	0,55	0,75	1 x 220-240	3,72	2,2	20 ÷ 70	42,1 ÷ 19,6	9,7
GENYO 2HM7/F22	0,75	1,00	1 x 220-240	5,09	2,2	20 ÷ 70	53,2 ÷ 25,8	13,2
GENYO 4HM5/F15	0,55	0,75	1 x 220-240	3,76	1,5	40 ÷ 120	28,9 ÷ 12,1	9,3
GENYO 4HM7/F22	0,75	1,00	1 x 220-240	5,74	2,2	40 ÷ 120	40,2 ÷ 17,7	12,8
GENYO 4HM9/F22	0,90	1,20	1 x 220-240	6,49	2,2	40 ÷ 120	51,2 ÷ 23,6	12,6
GENYO 2HMS4/F15	0,45	0,60	1 x 220-240	3,28	1,5	20 ÷ 70	35,6 ÷ 14,4	9,2
GENYO 2HMS7/F22	0,75	1,00	1 x 220-240	4,61	2,2	20 ÷ 70	45,6 ÷ 18,2	13,2
GENYO 4HMS5/F15	0,55	0,75	1 x 220-240	3,54	1,5	40 ÷ 120	30,6 ÷ 12,7	9,9
GENYO 4HMS7/F22	0,75	1,00	1 x 220-240	5,08	2,2	40 ÷ 120	38,9 ÷ 16,7	11,2
GENYO BGM5/F22	0,55	0,75	1 x 220-240	4,33	2,2	10 ÷ 60	35,7 ÷ 18,8	13,1
GENYO BGM7/F22	0,75	1,00	1 x 220-240	5	2,2	20 ÷ 60	38,1 ÷ 25,6	14,1
GENYO BGM9/F22	0,90	1,20	1 x 220-240	5,54	2,2	20 ÷ 65	41,1 ÷ 28,6	14,1
GENYO BGM11/F22	1,10	1,50	1 x 220-240	6,47	2,2	20 ÷ 70	45,8 ÷ 30,3	17,1
GENYO CAM70/33/F22	0,75	1,00	1 x 220-240	5,16	2,2	30 ÷ 80	38,8 ÷ 23,9	16,1
GENYO CAM70/34/F22	0,90	1,20	1 x 220-240	6,22	2,2	30 ÷ 80	45,1 ÷ 29,5	16,9

Genyo_a_th

Pressure booster units

Wide range of 2, 3 and 4 pump controlled by pressure switches or pressure transmitters, with constant or variable speed operation. The range has been designed to supply water to users on an intermittent or variable basis, using electric or diesel motors controlled by an electric panel.

The wide range of available products includes fixed-speed single-phase and three-phase units (GXS, GMD, GS), GHV series independent variable-speed pressure boosters with HYDROVAR® adjuster, and GTKS series with TEKNOSPEED device. There is also a complete range of booster fighting systems built to UNI EN 12845 requirements.

Applications

Water supply

Heating, ventilation and airconditioning

Water supply for washing and heating systems

Irrigation

General industry

Fire-fighting systems

Specifications	GXS20	GMD20	GTKS20	GS	GHV	GV
						
Voltage	1 x 230 V	3 x 400 V	1 x 230 V	3 x 400 V	1 x 230 V 3 x 400 V	3 x 400 V
Speed	fixed	fixed	variable	fixed	variable	variable
n°pumps	2	2	2	3	1 - 4	1 - 6
Pump Type	HM, CA, BG, CEA SV	HM, CA, BG, CEA SV	CA, BG, CEA , SV HM	SV, FHE, SHE	SV	SV
Max. capacity (mc/h)	28	36	28	630	400	720
PN max (mt)	160	160	160	160	160	160
type of control	pressure switch	pressure switch	frequency converter	pressure switch	frequency converter	frequency converter

• Special versions available on request

For a complete list of technical information, consult www.lowara.com

GXS20 Series

Single-phase fixed-speed pressure boosters with pressure switch control. Connected to electric pumps BG, CA, CEA, HM and e-SV™.

Specifications

Number of pumps: 2
Delivery: up to 58 m^3/h
Head: up to 120 m
Electric panel supply voltage:
1 x 230 V 50 Hz (single-phase)
Power: 2 x 1,5 kW
Motor starting: D.O.L.
Water temperature: 0°C to +80°C
Pump type: Horizontal and vertical

Materials

Pump: Stainless steel
Manifolds: Aisi 304 stainless steel
Base: Galvanised

Product applications and characteristics

Water supply

Heating and air-conditioning

Water supply for heating and washing systems

Easy to install

Trouble-free servicing

Pressure switch control

Compact solution for residential use

Protection against dry running

Automatic switching

Vibration dampers under base

Plastic control panel IP55

Unit factory assembled, calibrated and tested



For a complete list of technical information, consult www.lowara.com

GMD20 Series

Three-phase fixed-speed pressure boosters with pressure switch control. Connected to electric pumps BG, CA, CEA, HM and e-SV™.

Specifications

Number of pumps: 2
Delivery: up to 62 m^3/h
Head: up to 160 m
Electric supply panel voltage:
3 x 400 V 50 Hz (three-phase)
Power: 2 x 4 kW
Motor starting: D.O.L.
Water temperature: 0°C to +80°C
Pump type: Horizontal and vertical

Materials

Pump: Stainless steel
Manifolds: Aisi 304 stainless steel
Base: Galvanised

Product applications and characteristics

Water supply

Heating and air-conditioning

Water supply for heating and washing systems

Easy to install

Trouble-free servicing

Pressure switch control

Compact solution for residential use

Protection against dry running

Automatic switching

Vibration dampers under base

Control panel with metal box IP54

Unit factory assembled, calibrated and tested



For a complete list of technical information, consult www.lowara.com

GTKS Series

Single-phase variable-speed pressure boosters with pressure transducer control. Connected to electric pumps BG, CA, CEA, HM and e-SV™.

Specifications

Number of pumps: 2
Delivery: up to 50 m^3/h
Head: up to 90 m
Electric supply panel voltage:
1 x 230 V 50 Hz (single-phase)
Power: 2 x 1.1 kW
Motor starting: variable frequency operation
Temperature of pumped liquid:
0°C to +80°C
Pump type: horizontal and vertical

Materials

Pump: Stainless steel
Manifolds: AISI 304 stainless steel
Base: Galvanised

Product applications and characteristics

Easy to install

Trouble-free servicing

Pressure transducer control (one per pump)

Compact solution for residential use

Constant pressure

Water supply guaranteed if one pump fails

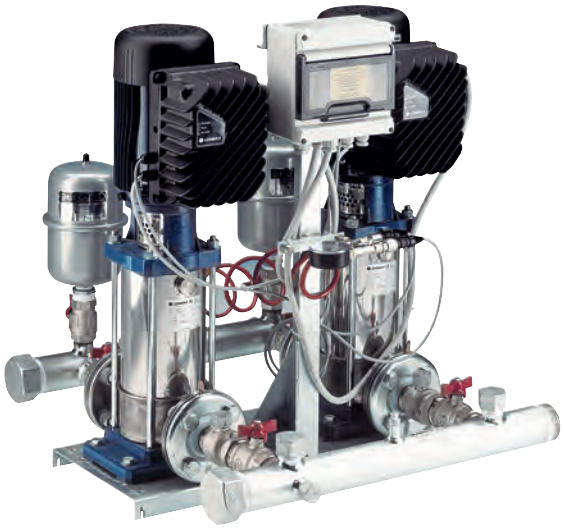
Protection against dry running

Automatic switching

Vibration dampers under base

Plastic control panel IP55

Unit factory assembled, calibrated and tested



For a complete list of technical information, consult www.lowara.com

GHV Series

Variable speed sets equipped with Hydrovar® frequency converter and two multistage vertical pumps.

Specifications

Number of pumps: from 2
Delivery: up to 28 m^3/h
Head: up to 160 m
Input voltage of panel:
1 x 230 V 50 Hz (single-phase)
3 x 400 V 50 Hz (three-phase)
Power range:
2 x 2,2 kW (single-phase)
2 x 4 kW (three-phase)
Motor starting via variable frequency operation
Water temperature of the liquid: 0°C to +80°C
Pump type: vertical e-SV™ series

Materials

Pump: Stainless steel
Manifold: AISI 304 stainless steel

Product applications and characteristics

Easy to install

Trouble-free servicing

Pressure transducer controlled

Compact solution

Constant output pressure

Variable speed motors with consequently reduced noise

Protection against dry running

Accessories: Hydro tube

Versions with non-return valve on suction line available on request

For hydraulic performances of 3 and 4 pumps boosters please check our technical catalogue

Special configurations available on request



For a complete list of technical information, consult www.lowara.com

2-PUMP PRESSURE BOOSTER UNITS
Electrical data

PUMP TYPE	RATED POWER	GXS20 INPUT CURRENT 1 x 230 V	GMD20 INPUT CURRENT 3 x 400 V	GTKS20 INPUT CURRENT 1 x 230 V	GHV20../M INPUT CURRENT 1 x 230 V	GHV20../T INPUT CURRENT 3 x 400 V
	kW	A	A	A	A	A
BG3	2 x 0,37	5,9	3,0	4,6	-	-
BG5	2 x 0,55	8,7	3,2	6,8	-	-
BG7	2 x 0,75	10,0	3,8	9,3	-	-
BG9	2 x 0,9	11,1	4,2	11,1	-	-
BG11	2 x 1,1	12,9	4,8	13,6	-	-
2HM3(ZT)	2 x 0,3	4,7	2,1	3,7	-	-
2HM4(ZT)	2 x 0,45	5,8	3,0	5,6	-	-
2HM5(ZT)	2 x 0,55	7,4	3,4	6,8	-	-
2HM7(ZT)	2 x 0,75	10,2	3,9	9,3	-	-
4HM4(ZT)	2 x 0,45	5,5	2,9	5,6	-	-
4HM5(ZT)	2 x 0,55	7,5	3,4	6,8	-	-
4HM7(ZT)	2 x 0,75	11,5	4,4	9,3	-	-
4HM9(ZT)	2 x 0,9	13,0	4,9	11,1	-	-
CEA 70/3	2 x 0,37	5,4	2,9	4,6	-	-
CEA 70/5	2 x 0,55	9,1	3,3	6,8	-	-
CEA 80/5	2 x 0,75	9,7	3,7	9,3	-	-
CEA 120/3	2 x 0,55	8,7	3,2	6,8	-	-
CEA 120/5	2 x 0,9	12,5	4,7	11,1	-	-
CEA 210/2	2 x 0,75	10,2	3,9	9,3	-	-
CEA 210/3	2 x 1,1	13,4	4,9	13,6	-	-
CEA 210/4	2 x 1,5	17,2	6,2	-	-	-
CEA 210/5	2 x 1,85	-	8,5	-	-	-
CEA 370/1	2 x 1,1	13,5	5,0	13,6	-	-
CEA 370/2	2 x 1,5	18,5	6,8	-	-	-
CEA 370/3	2 x 1,85	-	9,1	-	-	-
CEA370/5	2 x 3	-	11,7	-	-	-
CA 70/33	2 x 0,75	10,3	4,0	9,3	-	-
CA 70/34	2 x 0,9	12,4	4,7	11,1	-	-
CA 70/45(44)	2 x 1,1	15,8	5,7	13,6	-	-
CA 120/33	2 x 1,1	15,1	5,5	13,6	-	-
CA 120/35	2 x 1,5	19,7	6,8	-	-	-
CA 120/55	2 x 2,2	-	8,6	-	-	-
CA 200/33	2 x 1,85	-	7,8	-	-	-
CA 200/35	2 x 2,2	-	10,2	-	-	-
CA 200/55	2 x 3	-	12,4	-	-	-
3SV02F(T)	2 x 0,37	5,6	2,7	4,6	-	-
3SV03F(T)	2 x 0,37	5,6	2,7	4,6	-	-
3SV04F(T)	2 x 0,37	5,6	2,7	4,6	-	-
3SV05F(T)	2 x 0,55	7,7	3,0	6,8	9,2	-
3SV06F(T)	2 x 0,55	7,7	3,0	6,8	9,2	-
3SV07F(T)	2 x 0,75	9,7	3,5	9,3	11,0	-
3SV08F(T)	2 x 0,75	9,7	3,5	9,3	11,0	-
3SV09F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
3SV10F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
3SV11F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
3SV12F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
3SV13F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
3SV14F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
3SV16F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
3SV19F(T)	2 x 2,2	-	9,3	-	29,0	9,7
3SV21F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV02F(T)	2 x 0,37	5,6	2,7	4,6	-	-
5SV03F(T)	2 x 0,55	7,7	3,0	6,8	9,2	-
5SV04F(T)	2 x 0,55	7,7	3,0	6,8	9,2	-
5SV05F(T)	2 x 0,75	9,7	3,5	6,8	11,0	-
5SV06F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
5SV07F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
5SV08F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
5SV09F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
5SV10F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
5SV11F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
5SV12F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV13F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV14F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV15F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV16F(T)	2 x 2,2	-	9,3	-	29,0	9,7
5SV18F(T)	2 x 3	-	12,4	-	-	13,0
5SV21F(T)	2 x 3	-	12,4	-	-	13,0
10SV01F(T)	2 x 0,75	9,7	3,5	9,3	11,0	-
10SV02F(T)	2 x 0,75	9,7	3,5	9,3	11,0	-
10SV03F(T)	2 x 1,1	13,4	4,7	13,6	14,7	5,0
10SV04F(T)	2 x 1,5	17,5	6,0	-	18,8	6,3
10SV05F(T)	2 x 2,2	-	9,3	-	29,0	9,7
10SV06F(T)	2 x 2,2	-	9,3	-	29,0	9,7
10SV07F(T)	2 x 3	-	12,4	-	-	13,0
10SV08F(T)	2 x 3	-	12,4	-	-	13,0
10SV09F(T)	2 x 4	-	15,3	-	-	16,0
10SV10F(T)	2 x 4	-	15,3	-	-	16,0
10SV11F(T)	2 x 4	-	15,3	-	-	16,0

g20-2p50_c_te

PRESSURE BOOSTER SETS WITH 2 HORIZONTAL PUMPS
Hydraulic performance table at 50 Hz

PUMP TYPE	NOMINAL POWER	Q = DELIVERY																	
		l/min 0	20	40	60	80	100	120	130	140									
		m³/h 0	1,2	2,4	3,6	4,8	6	7,2	7,8	8,4									
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																	
BG(M)3	2 x 0,37	36,9	30,6	25,6	21,5	17,7	13,8												
BG(M)5	2 x 0,55	40,2	35,7	32,0	28,8	25,7	22,4	18,8											
BG(M)7	2 x 0,75	45,4		38,1	34,8	31,7	28,6	25,6											
BG(M)9	2 x 0,9	49,6		41,1	37,7	34,8	32,2	29,8	28,6										
BG(M)11	2 x 1,1	53,2		45,8	42,5	39,5	36,5	33,5	31,9	30,3									

PUMP TYPE	NOMINAL POWER	Q = DELIVERY																	
		l/min 0	40	60	80	100	120	140	160	200	240								
		m³/h 0	2,4	3,6	4,8	6	7,2	8,4	9,6	12	14,4								
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																	
2HM3(T)	2 x 0,3	23,8	21,4	19,7	17,6	15,2	12,5	9,4											
2HM4(T)	2 x 0,45	35,4	32,0	29,5	26,5	23,0	19,0	14,5											
2HM5(T)	2 x 0,55	46,8	42,1	38,8	34,9	30,4	25,3	19,6											
2HM7(T)	2 x 0,75	58,5	53,2	49,5	44,9	39,5	33,2	25,8											
4HM4(T)	2 x 0,45	24,6			20,3	19,1	17,8	16,5	15,0	11,9	8,3								
4HM5(T)	2 x 0,55	35,4			28,9	27,2	25,4	23,6	21,6	17,2	12,1								
4HM7(T)	2 x 0,75	48,1			40,2	38,2	36,0	33,7	31,2	25,2	17,7								
4HM9(T)	2 x 0,9	60,7			51,2	48,6	45,9	42,9	39,7	32,4	23,6								

PUMP TYPE	NOMINAL POWER	Q = DELIVERY																	
		l/min 0	60	80	120	160	200	240	280	320	360	400	500	600	700	800	860	960	1040
		m³/h 0	3,6	4,8	7,2	9,6	12	14,4	16,8	19,2	21,6	24	30	36	42	48	51,6	57,6	62,4
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																	
CEA(M)70/3	2 x 0,37	22	20,1	19,1	16,6	12,8													
CEA(M)70/5	2 x 0,55	31,1	28,8	27,7	24,7	20,2													
CEA(M)80/5	2 x 0,75	32	30	29,3	27,4	24,7	21												
CEA(M)120/3	2 x 0,55	22,4			18,9	17,5	15,9	14	11,8	9,2									
CEA(M)120/5	2 x 0,9	31,8			28,2	26,5	24,6	22,4	20	17,3									
CEA(M)210/2	2 x 0,75	17,7						16,5	16,1	15,6	15	14,4	12,6	10,4					
CEA(M)210/3	2 x 1,1	20,8						19,7	19,3	19	18,5	18	16,5	14,4					
CEA(M)210/4	2 x 1,5	25,5						24,8	24,5	24	23,6	23	21,3	19,0					
CEA(M)210/5	2 x 1,85	29,0						28,2	27,9	28	27,1	27	25,1	23,1					
CEA(M)370/1	2 x 1,1	16,3									15,5	15	14,3	13,0	11,4	9,4	8,1		
CEA(M)370/2	2 x 1,5	20,4										19	18,3	17,2	15,8	14,1	13,0	10,8	
CEA(M)370/3	2 x 1,85	24,4										23	22,1	21,1	19,8	18,2	17,1	15,0	13
CEA370/5	2 x 3	30										28,3	27,5	26,5	25,3	23,8	22,8	20,8	19,0

PUMP TYPE	NOMINAL POWER	Q = DELIVERY																	
		l/min 0	60	80	100	120	140	160	200	240	300	360	420						
		m³/h 0	3,6	4,8	6	7,2	8,4	9,6	12	14,4	18	21,6	25,2						
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																	
CA(M)70/33	2 x 0,75	42,9	38,8	36,9	34,6	31,7	28,2	23,9											
CA(M)70/34	2 x 0,9	48,8	45,1	43,2	40,7	37,7	34,0	29,5											
CA(M)70/45	2 x 1,1	56,2	52,0	49,8	47,1	43,9	39,9	35,3											
CA(M)120/33	2 x 1,1	44,3			39,1	37,8	36,4	34,8	31,4	27,6	21,0								
CA(M)120/35	2 x 1,5	54,0			49,4	48,1	46,6	44,9	41,2	36,8	29,3								
CA(M)120/55	2 x 2,2	63,8			59,6	58,2	56,6	54,8	50,6	45,7	37,1								
CA(M)200/33	2 x 1,85	43,2			41,8	41,2	40,6	39,9	38,3	36,4	33,2	29,5	25,5						
CA200/35	2 x 2,2	53,5			52,4	51,9	51,4	50,7	49,2	47,5	44,3	40,6	36,5						
CA200/55	2 x 3	62,6			61,0	60,6	60,1	59,5	58,2	56,6	53,8	50,4	46,2						

The table refers to performance with 2 pumps running.

g20o 2p50 en_c_th

PRESSURE BOOSTER SETS WITH 2 VERTICAL PUMPS
Hydraulic performance table at 50 Hz

PUMP TYPE	RATED POWER	Q = DELIVERY																
		l/min 0	24	40	50	60	70	80	90	100	146	166,6	200	266	282	340	366	466
		m³/h 0	1,4	2,4	3,0	3,6	4,2	4,8	5,4	6,0	8,8	10,0	12,0	16,0	16,9	20,4	22,0	28,0
	kW	H = TOTAL HEAD IN COLUMN OF WATER (METRES)																
3SV02F(T)	2 x 0,37	14,9		14,5	14,3	14,0	13,5	13,0	12,4	11,7	6,5							
3SV03F(T)	2 x 0,37	22,0		21,2	20,8	20,3	19,6	18,7	17,7	16,6	8,6							
3SV04F(T)	2 x 0,37	28,9		27,7	27,1	26,2	25,2	23,9	22,5	20,8	10,1							
3SV05F(T)	2 x 0.55	37,2		36,4	35,8	35,0	33,9	32,6	31,1	29,2	16,2							
3SV06F(T)	2 x 0.55	44,4		43,4	42,6	41,6	40,2	38,6	36,6	34,3	18,5							
3SV07F(T)	2 x 0.75	52,5		51,8	51,0	50,0	48,7	47,0	45,0	42,5	24,6							
3SV08F(T)	2 x 0.75	60,0		59,1	58,2	57,0	55,4	53,4	51,0	48,1	27,5							
3SV09F(T)	2 x 1.1	67,7		66,8	65,8	64,5	62,8	60,6	57,9	54,6	31,6							
3SV10F(T)	2 x 1.1	75,0		73,8	72,7	71,3	69,3	66,9	63,8	60,2	34,5							
3SV11F(T)	2 x 1.1	82,3		81,0	79,7	78,0	75,8	73,1	69,7	65,7	37,4							
3SV12F(T)	2 x 1.1	89,6		87,8	86,4	84,5	82,1	79,1	75,5	71,1	40,1							
3SV13F(T)	2 x 1.5	98,1		96,7	95,4	93,5	91,0	87,8	83,9	79,2	45,6							
3SV14F(T)	2 x 1.5	105,6		104,1	102,5	100,4	97,7	94,2	89,9	84,8	48,5							
3SV16F(T)	2 x 1.5	119,9		117,8	116,1	113,6	110,5	106,5	101,6	95,8	54,2							
3SV19F(T)	2 x 2.2	144,3		142,3	140,3	137,5	133,9	129,2	123,5	116,7	67,6							
3SV21F(T)	2 x 2.2	159,3		156,9	154,6	151,4	147,3	142,1	135,7	128,0	108,5	73,6						
5SV02F(T)	2 x 0,37	14,8						13,8	13,7	13,4	12,2	11,5	10,2	6,7	5,7			
5SV03F(T)	2 x 0.55	21,8						19,9	19,6	19,2	17,1	16,0	13,9	8,5	6,9			
5SV04F(T)	2 x 0.55	30,0						28,2	27,9	27,5	25,2	23,8	21,2	14,3	12,2			
5SV05F(T)	2 x 0.75	38,0						36,4	36,0	35,5	32,9	31,3	28,2	19,7	17,1			
5SV06F(T)	2 x 1.1	45,3						43,7	43,3	42,8	39,6	37,7	33,9	23,5	20,3			
5SV07F(T)	2 x 1.1	52,7						50,7	50,1	49,5	45,8	43,5	39,1	26,8	23,1			
5SV08F(T)	2 x 1.1	60,1						57,6	57,0	56,2	51,8	49,2	44,1	30,0	25,8			
5SV09F(T)	2 x 1.5	68,0						65,5	64,8	64,0	59,3	56,4	50,6	35,0	30,2			
5SV10F(T)	2 x 1.5	75,5						72,4	71,7	70,8	65,4	62,1	55,7	38,3	33,0			
5SV11F(T)	2 x 1.5	82,8						79,3	78,4	77,5	71,4	67,8	60,7	41,4	35,6			
5SV12F(T)	2 x 2.2	90,8						88,0	87,0	86,0	79,3	75,2	67,4	46,7	40,5			
5SV13F(T)	2 x 2.2	98,3						95,0	94,0	92,8	85,5	81,1	72,6	50,1	43,5			
5SV14F(T)	2 x 2.2	105,7						102,0	100,9	99,6	91,7	87,0	77,8	53,5	46,3			
5SV15F(T)	2 x 2.2	113,1						109,0	107,8	106,4	97,8	92,7	82,8	56,8	49,1			
5SV16F(T)	2 x 2.2	120,5						115,9	114,6	113,1	103,9	98,4	87,8	60,0	51,8			
5SV18F(T)	2 x 3	135,8						131,1	129,7	128,0	117,8	111,7	99,9	68,7	59,5			
5SV21F(T)	2 x 3	157,9						152,0	150,3	148,3	136,1	128,9	114,9	78,4	67,6			
10SV01F(T)	2 x 0.75	11,8										11,2	10,9	9,9	9,6	8,3	7,6	4,3
10SV02F(T)	2 x 0.75	23,6										21,9	21,3	19,6	19,1	17,0	15,8	10,0
10SV03F(T)	2 x 1.1	35,7										33,0	32,1	29,6	28,9	25,8	24,1	16,0
10SV04F(T)	2 x 1.5	47,7										44,2	43,0	39,9	38,9	34,8	32,6	21,7
10SV05F(T)	2 x 2.2	60,0										56	54,7	50,9	49,8	44,9	42,2	29,0
10SV06F(T)	2 x 2.2	71,8										67	65,0	60,4	59,0	53,1	49,8	33,9
10SV07F(T)	2 x 3	83,6										78	76,2	70,8	69,2	62,1	58,3	39,8
10SV08F(T)	2 x 3	95,3										88,9	86,5	80,1	78,3	70,2	65,7	44,5
10SV09F(T)	2 x 4	106,3										100	98	90,8	88,7	80,0	75,1	52,1
10SV10F(T)	2 x 4	118,0										111	107,9	100	98	88	83	57
10SV11F(T)	2 x 4	129,6										121	118,1	109,6	107,1	96,3	90,3	62,1

The table refers to performance with 2 pumps running.

g20v-2p50_c_th

GS Series

Three-phase fixed-speed pressure units with pressure sensor control.

Specifications

Number of pumps: 1 to 3
Delivery: up to 630 m^3/h
Head: up to 150 m
Electric supply panel voltage:
3 x 400 V 50 Hz (three-phase)
Power: up to 55 kW
Motor starting: D.O.L. up to 22 kW, plus star-delta (SD)
Water temperature: 0°C to +80°C
Type of pump: FH/SH series horizontal, e-SV™ series vertical

Materials

Pump: Stainless steel
Manifolds: AISI 304 stainless steel
Base: Steel painted

Product applications and characteristics

Water supply for heating and washing systems

Irrigation

A jockey pump can be used on the pressure booster unit

Trouble-free installation with flanged connectors

Trouble-free servicing

Pressure transducer control

Compact solution for commercial use

Protection against dry running

Automatic switching

Metal control panel IP55

Unit factory assembled, calibrated and tested

New electronic card SM30 with possibility to be managed by microprocessor with Modbus protocol



For a complete list of technical information, consult www.lowara.com

GS20..GS21/10-15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q =DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	600	700	800
		m3/h 0	10	12	16	20,4	22	28	32	39,6	42	48	36	42	48
	kW	H =TOTAL HEAD METRES COLUMN OF WATER													
10SV01F007T	2 x 0,75	12	11,2	10,9	9,9	8,3	7,6	4,3							
10SV02F007T	2 x 0,75	24	21,9	21,3	19,6	17,0	15,8	10,0							
10SV03F011T	2 x 1,1	36	33,0	32,1	29,6	25,8	24,1	16,0							
10SV04F015T	2 x 1,5	48	44,2	43,0	39,9	34,8	32,6	21,7							
10SV05F022T	2 x 2,2	60	56,1	54,7	50,9	44,9	42,2	29,0							
10SV06F022T	2 x 2,2	72	66,8	65,0	60,4	53,1	49,8	33,9							
10SV07F030T	2 x 3	84	78,3	76,2	70,8	62,1	58,3	39,8							
10SV08F030T	2 x 3	95	88,9	86,5	80,1	70,2	65,7	44,5							
10SV09F040T	2 x 4	106	100,1	97,5	90,8	80,0	75,1	52,1							
10SV10F040T	2 x 4	118	110,8	107,9	100,3	88,2	82,8	57,2							
10SV11F040T	2 x 4	130	121,3	118,1	109,6	96,3	90,3	62,1							
10SV13F055T	2 x 5,5	156	146,5	142,7	132,6	116,4	109,2	74,3							
15SV01F011T	2 x 1,1	14	0,0	0,0	12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1			
15SV02F022T	2 x 2,2	29	0,0	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	2 x 3	43	0,0	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	2 x 4	58	0,0	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	2 x 4	73	0,0	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	2 x 5,5	88	0,0	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	2 x 5,5	102	0,0	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	2 x 7,5	117	0,0	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	2 x 7,5	132	0,0	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	2 x 11	148	0,0	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The tabel referers to performance with 2 pumps running

gms_2p10-15sv_2p50-en_b_th

GS20..GS21/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q =DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	860	920	967
		m^3/h 0	10	12	16	20,4	22	28	32	39,6	42	48	52	55	58
	kW	H =TOTAL HEAD METRES COLUMN OF WATER													
22SV01F011T	2 x 1,1	15					13,5	12,7	12,0	10,4	9,7	7,7	6,3	4,7	3,4
22SV02F022T	2 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	2 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	2 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	2 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	2 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	2 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	2 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	2 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	2 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 2 pumps running

gms_2p22sv_2p50-en_b_th

GS20..GS21/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY										
		l/min 0	500	600	733	833	1000	1167	1333	1500	1800	2000
		m³/h 0	30	36	44	50	60	70	80	90	108	120
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	2 x 2,2	17,4	16,2	15,7	15,0	14,0	12,2	9,8	6,7			
33SV1G030T	2 x 3	23,8	21,7	21,2	20,3	20,0	17,8	15,5	12,7			
33SV2/2AG40T	2 x 4	35,1	34,1	33,3	32,0	30,0	27,0	22,4	16,6			
33SV2/1AG40T	2 x 4	40,8	38,8	37,9	36,0	35,0	32,0	27,5	22,3			
33SV2G055T	2 x 5,5	47,8	45,0	44,1	43,0	41,0	39,0	35,0	29,9			
33SV3/2AG055T	2 x 5,5	57,7	55,2	53,8	51,0	49,0	44,0	38,0	29,6			
33SV3/1G075T	2 x 7,5	64,5	61,3	60,0	58,0	56,0	51,0	45,0	37,0			
33SV3G075T	2 x 7,5	71,5	67,4	66,0	64,0	62,0	58,0	52,0	44,6			
33SV4/2AG075T	2 x 7,5	82,0	78,8	77,0	74,0	72,0	66,0	58,0	47,2			
33SV4/1AG110T	2 x 11	88,9	85,0	83,0	81,0	78,0	73,0	65,0	55,1			
33SV4G110T	2 x 11	95,9	91,1	90,0	87,0	85,0	80,0	73,0	63,1			
33SV5/2AG110T	2 x 11	106,0	101,6	100,0	96,0	93,0	85,0	76,0	63,0			
33SV5/1AG110T	2 x 11	112,7	107,2	105,0	102,0	99,0	92,0	82,0	70,0			
33SV5G150T	2 x 15	120,4	114,9	113,0	110,0	107,0	101,0	92,0	80,5			
33SV6/2AG150T	2 x 15	131,2	126,9	125,0	120,0	116,0	108,0	96,0	81,2			
33SV6/1AG150T	2 x 15	139,1	133,5	131,0	128,0	124,0	116,0	105,0	90,4			
33SV6G150T	2 x 15	145,6	139,0	137,0	133,0	129,0	121,0	110,0	96,1			
33SV7/2AG150T	2 x 15	156,0	149,9	147,0	143,0	138,0	128,0	115,0	98,2			
46SV1/1AG030T	2 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	2 x 4	27,2			24,0	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	2 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	2 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	2 x 11	64,7			65,1	64,0	62,0	60,0	56,0	52,0	40,4	30,8
46SV3G110T	2 x 11	80,8			74,3	73,0	71,0	68,0	65,0	60,0	50,0	40,7
46SV4/2AG150T	2 x 15	92,4			90,7	90,0	87,0	83,0	79,0	73,0	58,0	45,6
46SV4G150T	2 x 15	107,3			99,8	98,0	96,0	92,0	87,0	82,0	68,0	55,9
46SV5/2AG185T	2 x 18,5	117,2			114,8	113,0	110,0	106,0	100,0	93,0	75,0	60,2
46SV5G185T	2 x 18,5	134,5			125,1	123,0	120,0	116,0	110,0	103,0	86,0	71,5
46SV6/2AG220T	2 x 22	143,7			139,3	138,0	134,0	129,0	122,0	113,0	92,0	73,4
46SV6G220T	2 x 22	161,0			149,9	148,0	144,0	139,0	132,0	124,0	104,0	86,0

The table refers to performance with 2 pumps running.

gms_2psv33-46_2p50-en_b_th

GS20..GS21/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1000	1200	1400	1500	1800	2000	2400	2600	2833,33	3200	3600	4000
		m³/h 0	60	72	84	90	108	120	144	156	170	192	216	240
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	2 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	2 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	2 x 7,5	47,5	42,6	41,2	39,5	38,6	35,5	32,9	26,4	22,2	16,4			
66SV2/1AG110T	2 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	2 x 11	60,4	55,7	54,4	52,8	52,0	49,3	47,1	42,0	38,9	34,7			
66SV3/2AG150T	2 x 15	78,4	71,6	69,6	67,2	65,9	61,5	57,9	49,0	43,3	35,3			
66SV3/1AG150T	2 x 15	84,7	77,8	75,8	73,5	72,2	68,0	64,6	56,3	51,1	44,0			
66SV3G185T	2 x 18,5	91,4	84,7	82,7	80,5	79,3	75,2	72,0	64,4	59,8	53,5			
66SV4/2AG185T	2 x 18,5	108,9	99,6	96,9	93,8	92,1	86,3	81,6	70,1	62,8	52,8			
66SV4/1AG220T	2 x 22	115,2	105,9	103,1	100,1	98,5	92,9	88,6	77,8	71,1	61,8			
66SV4G220T	2 x 22	121,6	112,5	109,8	106,9	105,3	99,8	95,7	85,5	79,2	70,8			
66SV5/2AG300T	2 x 30	139,1	127,5	124,1	120,2	118,2	111,1	105,5	91,5	82,7	70,4			
66SV5/1AG300T	2 x 30	145,6	134,0	130,5	126,8	124,7	117,8	112,4	99,2	90,9	79,5			
66SV5G300T	2 x 30	152,0	140,4	137,0	133,3	131,3	124,6	119,4	106,8	99,1	88,5			
92SV1/1AG055T	2 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15,0	11,8	7,9
92SV1G075T	2 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	2 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	2 x 15	67,8				58,2	55,3	53,4	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	2 x 18,5	82,4				74,4	71,6	69,6	64,8	62,1	58,6	52,2	43,6	32,9
92SV3G220T	2 x 22	102,2				88,2	84,0	81,2	75,5	72,6	69,2	63,4	55,9	46,3
92SV4/2AG300T	2 x 30	115,7				104,0	99,9	97,0	90,4	86,8	82,1	73,8	62,8	49,0
92SV4G300T	2 x 30	133,1				117,0	111,7	108,0	100,6	96,8	92,3	84,6	74,8	62,5
92SV5/2AG370T	2 x 37	149,0				133,2	127,8	124,0	115,6	111,0	105,2	94,9	81,4	64,6

The table refers to performance with 2 pumps running.

gms_2psv66 -92_2p50-en_b_th

GS20..GS21/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	2000	2400	2833	3400	3800	4000	4300	4600	5333
		m³/h 0	120	144	170	204	228	240	258	276	320
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	2 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	2 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	2 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	2 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	2 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 2 pumps running.

gv_2p125sv_2p50-en_b_th

GS30/10-15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	600	700	800
		m³/h 0	10	12	16	20,4	22	28	32	39,6	42	48	36	42	48
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
10SV01F007T	3 x 0,75	12	11,2	10,9	9,9	8,3	7,6	4,3							
10SV02F007T	3 x 0,75	24	21,9	21,3	19,6	17,0	15,8	10,0							
10SV03F011T	3 x 1,1	36	33,0	32,1	29,6	25,8	24,1	16,0							
10SV04F015T	3 x 1,5	48	44,2	43,0	39,9	34,8	32,6	21,7							
10SV05F022T	3 x 2,2	60	56,1	54,7	50,9	44,9	42,2	29,0							
10SV06F022T	3 x 2,2	72	66,8	65,0	60,4	53,1	49,8	33,9							
10SV07F030T	3 x 3	84	78,3	76,2	70,8	62,1	58,3	39,8							
10SV08F030T	3 x 3	95	88,9	86,5	80,1	70,2	65,7	44,5							
10SV09F040T	3 x 4	106	100,1	97,5	90,8	80,0	75,1	52,1							
10SV10F040T	3 x 4	118	110,8	107,9	100,3	88,2	82,8	57,2							
10SV11F040T	3 x 4	130	121,3	118,1	109,6	96,3	90,3	62,1							
10SV13F055T	3 x 5,5	156	146,5	142,7	132,6	116,4	109,2	74,3							
15SV01F011T	3 x 1,1	14	0,0	0,0	12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1			
15SV02F022T	3 x 2,2	29	0,0	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	3 x 3	43	0,0	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	3 x 4	58	0,0	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	3 x 4	73	0,0	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	3 x 5,5	88	0,0	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	3 x 5,5	102	0,0	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	3 x 7,5	117	0,0	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	3 x 7,5	132	0,0	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	3 x 11	148	0,0	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The table refers t operformance with 3 pumps running.

gms_3p10-15sv_2p50 -en_b_th

5

GS30/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	250	300	400	510	550	700	810	990	1050	1200	1290	1380	1450
		m3/h 0	15	18	24	30,6	33	42	49	59,4	63	72	77	83	87
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV01F011T	3 x 1,1	15					13,5	12,7	12,0	10,4	9,7	7,7	6,3	4,7	3,4
22SV02F022T	3 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	3 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	3 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	3 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	3 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	3 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	3 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	3 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	3 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 3 pumps running

gms_3p22sv_2p50 -en_b_th

GS30/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY										
		l/min 0	750	900	1100	1250	1500	1750	2000	2250	2700	3000
		m^3/h 0	45	54	66	75	90	105	120	135	162	180
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	3 x 2,2	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1G030T	3 x 3	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2AG40T	3 x 4	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1AG40T	3 x 4	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2G055T	3 x 5,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2AG055T	3 x 5,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1G075T	3 x 7,5	64,5	61,3	60	58	56	51	45	37			
33SV3G075T	3 x 7,5	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2AG075T	3 x 7,5	82	78,8	77	74	72	66	58	47,2			
33SV4/1AG110T	3 x 11	88,9	85	83	81	78	73	65	55,1			
33SV4G110T	3 x 11	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2AG110T	3 x 11	106	101,6	100	96	93	85	76	63			
33SV5/1AG110T	3 x 11	112,7	107,2	105	102	99	92	82	70			
33SV5G150T	3 x 15	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2AG150T	3 x 15	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1AG150T	3 x 15	139,1	133,5	131	128	124	116	105	90,4			
33SV6G150T	3 x 15	145,6	139	137	133	129	121	110	96,1			
33SV7/2AG150T	3 x 15	156	149,9	147	143	138	128	115	98,2			
46SV1/1AG030T	3 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	3 x 4	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	3 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	3 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	3 x 11	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3G110T	3 x 11	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2AG150T	3 x 15	92,4			90,7	90	87	83	79	73	58	45,6
46SV4G150T	3 x 15	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2AG185T	3 x 18,5	117,2			114,8	113	110	106	100	93	75	60,2
46SV5G185T	3 x 18,5	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2AG220T	3 x 22	143,7			139,3	138	134	129	122	113	92	73,4
46SV6G220T	3 x 22	161			149,9	148	144	139	132	124	104	86

The table refers to performance with 3 pumps running.

gms_3psv33 46_2p50 en_b_th

GS30/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1500	1800	2100	2250	2700	3000	3600	3900	4250	4800	5400	6000
		m^3/h 0	90	108	126	135	162	180	216	234	255	288	324	360
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	3 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	3 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	3 x 7,5	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1AG110T	3 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	3 x 11	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2AG150T	3 x15	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1AG150T	3 x 15	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3G185T	3 x 18,5	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2AG185T	3 x 18,5	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1AG220T	3 x 22	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4G220T	3 x 22	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2AG300T	3 x 30	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1AG300T	3 x 30	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5G300T	3 x 30	152	140,4	137	133	131	125	119	107	99	88,5			
92SV1/1AG055T	3 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1G075T	3 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	3 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	3 x 15	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	3 x 18,5	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3G220T	3 x 22	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2AG300T	3 x 30	115,7				104	100	97	90	87	82	74	63	49
92SV4G300T	3 x 30	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2AG370T	3 x 37	149				133,2	128	124	116	111	105	95	81	64,6

The table refers to performance with 3 pumps running.

gms_3psv66 -92_2p50-en_b_th

5

GS30/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	3000	3600	4250	5100	5700	6000	6450	6900	8000
		m^3/h 0	180	216	255	306	342	360	387	414	480
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	3 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	3 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	3 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	3 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	3 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 3 pumps running.

gv_3p125sv_2p50-en_b_th

GS20..GS21/FH 32-40 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	200	300	500	600	800	900	1200	1400	1600	1800	2400	2800	3000
		m³/h 0	12	18	30	36	48	54	72	84	96	108	144	168	180
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
FHE 32-125/07	2 x 0,75	16,9		14,6	11,0	8,7									
FHE 32-125/11	2 x 1,1	21,9		19,6	16,3	14,2	9,0								
FHE 32-160/15	2 x 1,5	27,3		24,5	20,5	17,8	11,0								
FHE 32-160/22	2 x 2,2	34,7		32,0	28,0	25,3	18,8	15,0							
FHE 32-200/30	2 x 3	44,2		39,8	35,2	32,2	24,6	19,8							
FHE 32-200/40	2 x 4	54,4		50,0	45,0	41,9	34,6	30,3							
2FHE 32-250/55	2 x 5,5	79,0	74,7	71,0	62,0	56,0	37,0								
2FHE 32-250/75	2 x 7,5	99,0	95,3	92,0	83,0	76,0	58,0								
FHE 40-125/11	2 x 1,1	14,5				13,0	11,3	10,1	5,8						
FHE 40-125/15	2 x 1,5	18,1				16,7	15,0	13,9	9,6	6,0					
FHE 40-125/22	2 x 2,2	24,5				23,0	21,0	20,1	15,8	12,3	8,2				
FHE 40-160/30	2 x 3	31,5				29,4	27,5	26,1	21,5	17,4					
FHE 40-160/40	2 x 4	38,0				36,2	34,0	33,0	28,5	24,5	20,1				
FHE 40-200/55	2 x 5,5	46,5				44,0	41,5	40,2	34,5	29,5					
FHE 40-200/75	2 x 7,5	57,0				54,0	52,0	50,0	45,5	41,0	36,1				
FHE 40-250/92	2 x 9,2	64,0				59,0	56,0	55,0	49,0	45,0	39,5				
FHE 40-250/110	2 x 11	72,0				67,5	65,0	63,0	57,0	52,0	47,0				
FHE 40-250/150	2 x 15	85,0				80,0	77,0	75,0	70,0	65,0	60,0				

The table refers to performance with 2 pumps running.

gfix_fhe32-40_2p-2p50-en_c_th

5

GS20..GS21/FH 50-80 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY														
		l/min 0	800	900	1200	1400	1600	1800	2400	2800	3000	3600	4000	4600	6000	7000
		m³/h 0	48	54	72	84	96	108	144	168	180	216	240	276	360	420
	kW	H = PREVALENZA TOTALE IN METRI COLONNA ACQUA														
FHE 50-125/22	2 x 2,2	17,0			15,1	14,0	12,8	11,4	6,2							
FHE 50-125/30	2 x 3	20,0			18,8	18,0	16,9	15,6	10,5							
FHE 50-125/40	2 x 4	24,0			23,1	22,5	21,5	20,3	15,8	11,8						
FHE 50-160/55	2 x 5,5	32,0			30,6	29,5	28,0	26,6	20,5	14,8						
FHE 50-160/75	2 x 7,5	40,0			38,0	37,0	36,0	34,4	29,0	24,0	21,0					
FHE 50-200/92	2 x 9,2	50,5			46,8	45,0	43,0	40,9	32,5	25,7						
FHE 50-200/110	2 x 11	58,0			54,0	53,0	50,0	48,3	40,0	33,0	29,0					
FHE 50-250/150	2 x 15	68,0			64,0	63,0	61,0	59,0	50,0	41,0						
FHE 50-250/185	2 x 18,5	77,0			73,0	72,0	70,0	68,0	60,0	52,0	47,0					
FHE 50-250/220	2 x 22	86,0			82,5	81,0	80,0	78,0	70,0	61,0	57,0					
FHE 65-125/40	2 x 4	19,0					17,3	16,8	14,5	13,0	11,8					
FHE 65-125/55	2 x 5,5	23,0					21,3	20,9	19,0	17,5	16,7	13,7				
FHE 65-125/75	2 x 7,5	27,0					26,0	25,6	24,5	23,0	22,5	20,0	18,0			
FHE 65-160/92	2 x 9,2	33,0						31,5	30,0	28,0	27,1	24,0	21,5			
FHE 65-160/110	2 x 11	36,0						34,5	33,0	31,5	30,8	28,0	25,5			
FHE 65-160/150	2 x 15	42,0						41,0	40,0	38,5	37,8	35,0	33,0	29,5		
FHE 65-200/150	2 x 15	45,0						45,5	43,0	41,0	40,2	36,5	34,0			
FHE 65-200/185	2 x 18,5	52,0						52,0	51,0	49,0	48,0	44,5	42,0			
FHE 65-200/220	2 x 22	59,0						59,5	58,0	56,0	55,0	52,0	49,5	44,5		
FHE 65-250/220	2 x 22	62,0						61,0	58,0	56,0	54,0	48,5	44,0			
FHS65 -250/300	2 x 30	76,0						74,5	73,0	70,5	69,0	64,0	61,0	54,0		
FHS65 -250/370	2 x 37	90,0						88,0	86,0	84,0	82,5	78,0	74,5	68,0		
FHE80 -160/110	2 x 11	27,0									27,3	26,0	24,5	22,5	16,0	
FHE80 -160/150	2 x 15	33,0									32,5	31,0	30,0	28,0	22,0	16,5
FHE80 -160/185	2 x 18,5	39,0									38,0	36,5	35,5	34,0	28,5	23,3
FHE80 -200/220	2 x 22	48,0									47,0	45,0	43,5	41,0	32,5	24,5
FHS80 -200/300	2 x 30	60,0									59,5	58,0	57,0	54,5	47,0	40,5
FHS80 -250/370	2 x 37	71,0									70,0	67,0	65,0	61,0	49,0	38,0
FHS80 -250/450	2 x 45	80,0									80,5	78,0	76,0	72,5	62,0	51,4
FHS80 -250/550	2 x 55	92,0									93,0	91,0	89,5	86,5	77,0	68,4

The table refers to performance with 2 pumps running.

gms_2pfh50-80_2p50-en_b_th

GS20..GS21/SH 25-80 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET	NOMINAL	Q = DELIVERY																		
TYPE	POWER	l/min 0	300	400	500	600	800	900	1200	1400	1600	1800	2000	2400	3000	3600	4000	5000	6300	7400
GS20/..		m³/h 0	18	24	30	36	48	54	72	84	96	108	120	144	180	216	240	300	378	444
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																		
SHE25 -200/40	2 x 4	54,5	49,4	46,8	43,8	40,3	31,9	27												
SHE25.250/55	2 x 5,5	61,4	55,8	53,2	50,3	47	39,2													
SHE25 -250/75	2 x 7,5	75,9	69,3	66,5	63,2	59,6	51,1													
SHE25 -250/110	2 x 11	87,5	81,5	78,7	75,4	71,8	63,3	58,4												
SHE32 -125/7,5	2 x 0,75	16,6	14,4	13,0	11,3	9,5														
SHE32 -125/11	2 x 1,1	21,6	19,4	17,8	16,2	14,2	9,8													
SHE32 -160/15	2 x 1,5	27,6	24,6	22,7	20,6	18,1	12,7													
SHE32 -160/22	2 x 2,2	35,0	32,5	31,0	29,0	26,6	21,0	18,0												
SHE32 -200/30	2 x 3	43,7	38,5	36,0	33,0	30,0	22,3													
SHE32 -200/40	2 x 4	53,5	49,0	46,8	44,0	41,0	33,8	28,8												
SHE32 -250/55	2 x 5,5	61,7	56,7	54,2	51,2	47,9	40,0													
SHE32 -250/75	2 x 7,5	74,1	68,9	66,2	63,0	60,0	52,2													
SHE32 -250/110	2 x 11	86,2	80,1	77,5	74,3	71,0	63,3	59												
SHE40 -125/11	2 x 1,1	14,4				12,5	10,9	10,0	7,0											
SHE40 -125/15	2 x 1,5	17,5				16,0	14,4	13	10,2	8,0										
SHE40 -125/22	2 x 2,2	25,3				22,2	20,4	19,5	15,9	13,2										
SHE40 -160/30	2 x 3	32,2				29,5	26,9	25	20,8	17,0										
SHE40 -160/40	2 x 4	38,0				35,5	33,2	31,7	26,7	22,8	18,5									
SHE40 -200/55	2 x 5,5	49,1				46,4	43,8	42	36,2	31,0	25,0									
SHE40 -200/75	2 x 7,5	58,2				55,1	52,3	50,8	45,0	40,0	34,5									
SHE40 -250/92	2 x 9,2	64,9				62,0	59,5	58	51,5	44,6										
SHE40 -250/110	2 x 11	74,7				71,4	69,0	67,8	61,5	55,2										
SHE40 -250/150	2 x 15	87,7				84,2	81,5	80	74,3	69,2	62,5									
SHE50 -125/22	2 x 2,2	17,2							14,6	13,4	12,2	11,0	9,5	6,5						
SHE50 -125/30	2 x 3	21,7							18,8	17,5	16,3	14,8	13,4	10,5						
SHE50 -125/40	2 x 4	25,7							23,3	22,2	20,8	19,3	18,0	15,0						
SHE50 -160/55	2 x 5,5	34,1							30,6	29,2	27,6	28,0	26,6	19,8						
SHE50 -160/75	2 x 7,5	40,8							37,5	36,2	34,8	25,8	24,0	27,0	18,6					
SHE50 -200/92	2 x 9,2	53,0							47,5	45,3	42,8	40,0	36,8	29,8						
SHE50 -200/110	2 x 11	60,1							55,0	52,8	50,3	47,5	44,3	37,5						
SHE50 -250/150	2 x 15	70,2							66,6	65,0	63,3	61,0	58,3	51,0						
SHE50 -250/185	2 x 18,5	80,0							75,0	73,2	71,4	69,0	66,3	59,5						
SHE50 -250/220	2 x 22	88,9							84,6	82,8	80,7	78,5	75,8	69,5						
SHE65 -160/40	2 x 4	19,6									16,8	16,0	15,2	13,5	10,8	7,6				
SHE65 -160/55	2 x 5,5	24,2									21,4	20,7	19,8	18,0	15,2	11,8				
SHE65 -160/75	2 x 7,5	28,2									26,0	25,3	24,7	23,0	20,0	16,8	14,5			
SHE65 -160/92	2 x 9,2	38,2									35,4	34,3	33,0	30,0	25,5	20,0				
SHE65 -160/110	2 x 11	43,2									40,8	39,8	38,5	35,5	30,6	25,4	21,4			
SHE65 -200/150	2 x 15	53,0										48,8	47,5	44,3	38,5	32,0				
SHE65 -200/185	2 x 18,5	60,2										56,5	55,3	52,0	47,0	40,0	35,4			
SHE65 -200/220	2 x 22	68,0										64,4	63,3	60,0	55,0	49,0	44,5			
SHS65 -250/300	2 x 30	84,3											81,7	79,5	75,0	69,0	64,0			
SHS65 -250/370	2 x 37	98,0											95,3	93,0	88,0	82,5	78,0			
SHE80 -160/110	2 x 11	33,6												31,9	30,0	27,5	25,5	20,5	12,5	
SHE80 -160/150	2 x 15	40,3												38,8	37,0	34,5	33,0	27,5	20,0	
SHE80 -160/185	2 x 18,5	47,2												45,7	44,0	41,5	40,0	35,0	27,5	19,5
SHE80 -200/220	2 x 22	53,0													49,8	47,5	46,0	41,0	33,5	
SHS80 -200/300	2 x 30	63,6													61,2	59,0	57,0	52,0	44,0	36,5
SHS80 -200/370	2 x 37	71,4													69,5	67,5	66,0	61,0	53,5	46,0

The table refers to performance with 2 pumps running.

gms_2psh_2p50 -en_a_th

GS30/FHE 32-40 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	300	450	750	900	1200	1350	1800	2100	2400	2700	3600	4200	4500
		m³/h 0	18	27	45	54	72	81	108	126	144	162	216	252	270
	kW	H = PREVALENZA TOTALE IN METRI COLONNA ACQUA													
FHE 32-125/07	3 x 0,75	16,9		14,6	11,0	8,7									
FHE 32-125/11	3 x 1,1	21,9		19,6	16,3	14,2	9,0								
FHE 32-160/15	3 x 1,5	27,3		24,5	20,5	17,8	11,0								
FHE 32-160/22	3 x 2,2	34,7		32,0	28,0	25,3	18,8	15,0							
FHE 32-200/30	3 x 3	44,2		39,8	35,2	32,2	24,6	19,8							
FHE 32-200/40	3 x 4	54,4		50,0	45,0	41,9	34,6	30,3							
2FHE 32-250/55	3 x 5,5	79,0	74,7	71,0	62,0	56,0	37,0								
2FHE 32-250/75	3 x 7,5	99,0	95,3	92,0	83,0	76,0	58,0								
FHE 40-125/11	3 x 1,1	14,5				13,0	11,3	10,1	5,8						
FHE 40-125/15	3 x 1,5	18,1				16,7	15,0	13,9	9,6	6,0					
FHE 40-125/22	3 x 2,2	24,5				23,0	21,0	20,1	15,8	12,3	8,2				
FHE 40-160/30	3 x 3	31,5				29,4	27,5	26,1	21,5	17,4					
FHE 40-160/40	3 x 4	38,0				36,2	34,0	33,0	28,5	24,5	20,1				
FHE 40-200/55	3 x 5,5	46,5				44,0	41,5	40,2	34,5	29,5					
FHE 40-200/75	3 x 7,2	57,0				54,0	52,0	50,0	45,5	41,0	36,1				
FHE 40-250/92	3 x 9,2	64,0				59,0	56,0	55,0	49,0	45,0	39,5				
FHE 40-250/110	3 x 11	72,0				67,5	65,0	63,0	57,0	52,0	47,0				
FHE 40-250/150	3 x 15	85,0				80,0	77,0	75,0	70,0	65,0	60,0				

The table refers to performance with 3 pumps running.

gfix_fhe32-40_3p-2p50-en_c_th

5

GS30/FH 50-80 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY														
		l/min 0	1200	1350	1800	2100	2400	2700	3600	4200	4500	5400	6000	6900	9000	10500
		m³/h 0	72	81	108	126	144	162	216	252	270	324	360	414	540	630
	kW	H = PREVALENZA TOTALE IN METRI COLONNA ACQUA														
FHE 50-125/22	3 x 2,2	17,0			15,1	14,0	12,8	11,4	6,2							
FHE 50-125/30	3 x 3	20,0			18,8	18,0	16,9	15,6	10,5							
FHE 50-125/40	3 x 4	24,0			23,1	22,5	21,5	20,3	15,8	11,8						
FHE 50-160/55	3 x 5,5	32,0			30,6	29,5	28,0	26,6	20,5	14,8						
FHE 50-160/75	3 x 7,5	40,0			38,0	37,0	36,0	34,4	29,0	24,0	21,0					
FHE 50-200/92	3 x 9,2	50,5			46,8	45,0	43,0	40,9	32,5	25,7						
FHE 50-200/110	3 x 11	58,0			54,0	53,0	50,0	48,3	40,0	33,0	29,0					
FHE 50-250/150	3 x 15	68,0			64,0	63,0	61,0	59,0	50,0	41,0						
FHE 50-250/185	3 x 18,5	77,0			73,0	72,0	70,0	68,0	60,0	52,0	47,0					
FHE 50-250/220	3 x 22	86,0			82,5	81,0	80,0	78,0	70,0	61,0	57,0					
FHE 65-125/40	3 x 4	19,0					17,3	16,8	14,5	13,0	11,8					
FHE 65-125/55	3 x 5,5	23,0					21,3	20,9	19,0	17,5	16,7	13,7				
FHE 65-125/75	3 x 7,5	27,0					26,0	25,6	24,5	23,0	22,5	20,0	18,0			
FHE 65-160/92	3 x 9,2	33,0						31,5	30,0	28,0	27,1	24,0	21,5			
FHE 65-160/110	3 x 11	36,0						34,5	33,0	31,5	30,8	28,0	25,5			
FHE 65-160/150	3 x 15	42,0						41,0	40,0	38,5	37,8	35,0	33,0	29,5		
FHE 65-200/150	3 x 15	45,0						45,5	43,0	41,0	40,2	36,5	34,0			
FHE 65-200/185	3 x 18,5	52,0						52,0	51,0	49,0	48,0	44,5	42,0			
FHE 65-200/220	3 x 22	59,0						59,5	58,0	56,0	55,0	52,0	49,5	44,5		
FHE 65-250/220	3 x 22	62,0						61,0	58,0	56,0	54,0	48,5	44,0			
FHS65 -250/300	3 x 30	76,0						74,5	73,0	70,5	69,0	64,0	61,0	54,0		
FHS65 -250/370	3 x 37	90,0						88,0	86,0	84,0	82,5	78,0	74,5	68,0		
FHE80 -160/110	3 x 11	27,0									27,3	26,0	24,5	22,5	16,0	
FHE80 -160/150	3 x 15	33,0									32,5	31,0	30,0	28,0	22,0	16,5
FHE80 -160/185	3 x 18,5	39,0									38,0	36,5	35,5	34,0	28,5	23,3
FHE80 -200/220	3 x 22	48,0									47,0	45,0	43,5	41,0	32,5	24,5
FHS80 -200/300	3 x 30	60,0									59,5	58,0	57,0	54,5	47,0	40,5
FHS80 -250/370	3 x 37	71,0									70,0	67,0	65,0	61,0	49,0	38,0
FHS80 -250/450	3 x 45	80,0									80,5	78,0	76,0	72,5	62,0	51,4
FHS80 -250/550	3 x 55	92,0									93,0	91,0	89,5	86,5	77,0	68,4

The table refers to performance with 3 pumps running.

gms_3pfh50-80_2p50-en_b_th

GS30/SH 25-80 SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET	NOMINAL	Q = DELIVERY																	
TYPE	POWER	l/min 0	450	600	750	900	1200	1350	1800	2100	2400	2700	3000	3600	4500	5400	6000	7500	9450	11100
GS30/..		m³/h 0	27	36	45	54	72	81	108	126	144	162	180	216	270	324	360	450	567	666
	kW	H = TOTAL HEAD METRES COLUMN OF WATER																		
SHE25 -200	3 x 4	54,5	49,4	46,8	43,8	40,3	31,9	27											
SHE25.250	3 x 5,5	61,4	55,8	53,2	50,3	47	39,2												
SHE25 -250	3 x 7,5	75,9	69,3	66,5	63,2	59,6	51,1												
SHE25 -250	3 x 11	87,5	81,5	78,7	75,4	71,8	63,3	58,4											
SHE32 -125	3 x 0,75	16,6	14,4	13,0	11,3	9,5													
SHE32 -125	3 x 1,1	21,6	19,4	17,8	16,2	14,2	9,8												
SHE32 -160	3 x 1,5	27,6	24,6	22,7	20,6	18,1	12,7												
SHE32 -160	3 x 2,2	35,0	32,5	31,0	29,0	26,6	21,0	18,0											
SHE32 -200	3 x 3	43,7	38,5	36,0	33,0	30,0	22,3												
SHE32 -200	3 x 4	53,5	49,0	46,8	44,0	41,0	33,8	28,8											
SHE32 -250	3 x 5,5	61,7	56,7	54,2	51,2	47,9	40,0												
SHE32 -250	3 x 7,5	74,1	68,9	66,2	63,0	60,0	52,2												
SHE32 -250	3 x 11	86,2	80,1	77,5	74,3	71,0	63,3	59											
SHE40 -125	3 x 1,1	14,4				12,5	10,9	10,0	7,0										
SHE40 -125	3 x 1,5	17,5				16,0	14,4	13	10,2	8,0									
SHE40 -125	3 x 2,2	25,3				22,2	20,4	19,5	15,9	13,2									
SHE40 -160	3 x 3	32,2				29,5	26,9	25	20,8	17,0									
SHE40 -160	3 x 4	38,0				35,5	33,2	31,7	26,7	22,8	18,5								
SHE40 -200	3 x 5,5	49,1				46,4	43,8	42	36,2	31,0	25,0								
SHE40 -200	3 x 7,5	58,2				55,1	52,3	50,8	45,0	40,0	34,5								
SHE40 -250	3 x 9,2	64,9				62,0	59,5	58	51,5	44,6									
SHE40 -250	3 x 11	74,7				71,4	69,0	67,8	61,5	55,2									
SHE40 -250	3 x 15	87,7				84,2	81,5	80	74,3	69,2	62,5								
SHE50 -125	3 x 2,2	17,2							14,6	13,4	12,2	11,0	9,5	6,5					
SHE50 -125	3 x 3	21,7							18,8	17,5	16,3	14,8	13,4	10,5					
SHE50 -125	3 x 4	25,7							23,3	22,2	20,8	19,3	18,0	15,0					
SHE50 -160	3 x 5,5	34,1							30,6	29,2	27,6	28,0	26,6	19,8					
SHE50 -160	3 x 7,5	40,8							37,5	36,2	34,8	25,8	24,0	27,0	18,6				
SHE50 -200	3 x 9,2	53,0							47,5	45,3	42,8	40,0	36,8	29,8					
SHE50 -200	3 x 11	60,1							55,0	52,8	50,3	47,5	44,3	37,5					
SHE50 -250	3 x 15	70,2							66,6	65,0	63,3	61,0	58,3	51,0					
SHE50 -250	3 x 18,5	80,0							75,0	73,2	71,4	69,0	66,3	59,5					
SHE50 -250	3 x 22	88,9							84,6	82,8	80,7	78,5	75,8	69,5					
SHE65 -160	3 x 4	19,6									16,8	16,0	15,2	13,5	10,8	7,6			
SHE65 -160	3 x 5,5	24,2									21,4	20,7	19,8	18,0	15,2	11,8			
SHE65 -160	3 x 7,5	28,2									26,0	25,3	24,7	23,0	20,0	16,8	14,5		
SHE65 -160	3 x 9,2	38,2									35,4	34,3	33,0	30,0	25,5	20,0			
SHE65 -160	3 x 11	43,2									40,8	39,8	38,5	35,5	30,6	25,4	21,4		
SHE65 -200	3 x 15	53,0										48,8	47,5	44,3	38,5	32,0			
SHE65 -200	3 x 18,5	60,2										56,5	55,3	52,0	47,0	40,0	35,4		
SHE65 -200	3 x 22	68,0										64,4	63,3	60,0	55,0	49,0	44,5		
SHS65 -250	3 x 30	84,3											81,7	79,5	75,0	69,0	64,0		
SHS65 -250	3 x 37	98,0											95,3	93,0	88,0	82,5	78,0		
SHE80 -160	3 x 11	33,6												31,9	30,0	27,5	25,5	20,5	12,5
SHE80 -160	3 x 15	40,3												38,8	37,0	34,5	33,0	27,5	20,0
SHE80 -160	3 x 18,5	47,2												45,7	44,0	41,5	40,0	35,0	27,5	19,5
SHE80 -200	3 x 22	53,0													49,8	47,5	46,0	41,0	33,5	
SHS80 -200	3 x 30	63,6													61,2	59,0	57,0	52,0	44,0	36,5
SHS80 -200	3 x 37	71,4													69,5	67,5	66,0	61,0	53,5	46,0

The table refers to performance with 3 pumps running.

gms_3psh_2p50 -en_a_th

GHV Series

Variable speed sets equipped with Hydrovar® frequency converter and 2-3-4 multistage vertical pumps.

Specifications

Number of pumps: 1 to 4
Delivery: up to 640 m^3/h
Head: up to 160 m
Input voltage of panel
3 x 400 V 50 Hz (three-phase)
Power range: 4 x 37 kW (three-phase)
Motor starting via variable frequency operation
Water temperature of the liquid: 0°C to +80°C
Pump type: vertical

Materials

Pump: Stainless steel
Manifold: AISI 304 stainless steel

Product applications and characteristics

Easy to install

Trouble-free servicing

Pressure transducer controlled

Compact solution

Constant output pressure

Variable speed motors with consequently reduced noise

Protection against dry running

Accessories: Membrane vessel

Versions with non-return valve on suction line available on request

Special configurations available on request



For a complete list of technical information, consult www.lowara.com

GHV20/15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GHV20/..	NOMINAL POWER	Q = DELIVERY												
		l/min 0	167	267	340	367	467	540	660	700	800	860	920	967
		m³/h 0	10	16	20,4	22	28	32	39,6	42	48	52	55	58
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
15SV01F011T	2 x 1,1	14	0,0	12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1			
15SV02F022T	2 x 2,2	29	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	2 x 3	43	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	2 x 4	58	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	2 x 4	73	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	2 x 5,5	88	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	2 x 5,5	102	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	2 x 7,5	117	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	2 x 7,5	132	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	2 x 11	148	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The tabel referers to performance with 2 pumps running

gcomv2p15sv_2p50-en_a_th

GHV20/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	860	920	967
		m³/h 0	10	12	16	20,4	22	28	32	39,6	42	48	52	55	58
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV01F011T	2 x 1,1	15					13,5	12,7	12,0	10,4	9,7	7,7	6,3	4,7	3,4
22SV02F022T	2 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	2 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	2 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	2 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	2 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	2 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	2 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	2 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	2 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 2 pumps running

gms_2p22sv_2p50 -en_b_th

GHV20/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY										
		l/min 0	500	600	733	833	1000	1167	1333	1500	1800	2000
		m³/h 0	30	36	44	50	60	70	80	90	108	120
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	2 x 2,2	17,4	16,2	15,7	15,0	14,0	12,2	9,8	6,7			
33SV1G030T	2 x 3	23,8	21,7	21,2	20,3	20,0	17,8	15,5	12,7			
33SV2/2AG40T	2 x 4	35,1	34,1	33,3	32,0	30,0	27,0	22,4	16,6			
33SV2/1AG40T	2 x 4	40,8	38,8	37,9	36,0	35,0	32,0	27,5	22,3			
33SV2G055T	2 x 5,5	47,8	45,0	44,1	43,0	41,0	39,0	35,0	29,9			
33SV3/2AG055T	2 x 5,5	57,7	55,2	53,8	51,0	49,0	44,0	38,0	29,6			
33SV3/1G075T	2 x 7,5	64,5	61,3	60,0	58,0	56,0	51,0	45,0	37,0			
33SV3G075T	2 x 7,5	71,5	67,4	66,0	64,0	62,0	58,0	52,0	44,6			
33SV4/2AG075T	2 x 7,5	82,0	78,8	77,0	74,0	72,0	66,0	58,0	47,2			
33SV4/1AG110T	2 x 11	88,9	85,0	83,0	81,0	78,0	73,0	65,0	55,1			
33SV4G110T	2 x 11	95,9	91,1	90,0	87,0	85,0	80,0	73,0	63,1			
33SV5/2AG110T	2 x 11	106,0	101,6	100,0	96,0	93,0	85,0	76,0	63,0			
33SV5/1AG110T	2 x 11	112,7	107,2	105,0	102,0	99,0	92,0	82,0	70,0			
33SV5G150T	2 x 15	120,4	114,9	113,0	110,0	107,0	101,0	92,0	80,5			
33SV6/2AG150T	2 x 15	131,2	126,9	125,0	120,0	116,0	108,0	96,0	81,2			
33SV6/1AG150T	2 x 15	139,1	133,5	131,0	128,0	124,0	116,0	105,0	90,4			
33SV6G150T	2 x 15	145,6	139,0	137,0	133,0	129,0	121,0	110,0	96,1			
33SV7/2AG150T	2 x 15	156,0	149,9	147,0	143,0	138,0	128,0	115,0	98,2			
46SV1/1AG030T	2 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	2 x 4	27,2			24,0	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	2 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	2 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	2 x 11	64,7			65,1	64,0	62,0	60,0	56,0	52,0	40,4	30,8
46SV3G110T	2 x 11	80,8			74,3	73,0	71,0	68,0	65,0	60,0	50,0	40,7
46SV4/2AG150T	2 x 15	92,4			90,7	90,0	87,0	83,0	79,0	73,0	58,0	45,6
46SV4G150T	2 x 15	107,3			99,8	98,0	96,0	92,0	87,0	82,0	68,0	55,9
46SV5/2AG185T	2 x 18,5	117,2			114,8	113,0	110,0	106,0	100,0	93,0	75,0	60,2
46SV5G185T	2 x 18,5	134,5			125,1	123,0	120,0	116,0	110,0	103,0	86,0	71,5
46SV6/2AG220T	2 x 22	143,7			139,3	138,0	134,0	129,0	122,0	113,0	92,0	73,4
46SV6G220T	2 x 22	161,0			149,9	148,0	144,0	139,0	132,0	124,0	104,0	86,0

The table refers to performance with 2 pumps running.

gms_2psv33-46_2p50-en_b_th

GHV20/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1000	1200	1400	1500	1800	2000	2400	2600	2833,33	3200	3600	4000
		m³/h 0	60	72	84	90	108	120	144	156	170	192	216	240
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	2 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	2 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	2 x 7,5	47,5	42,6	41,2	39,5	38,6	35,5	32,9	26,4	22,2	16,4			
66SV2/1AG110T	2 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	2 x 11	60,4	55,7	54,4	52,8	52,0	49,3	47,1	42,0	38,9	34,7			
66SV3/2AG150T	2 x 15	78,4	71,6	69,6	67,2	65,9	61,5	57,9	49,0	43,3	35,3			
66SV3/1AG150T	2 x 15	84,7	77,8	75,8	73,5	72,2	68,0	64,6	56,3	51,1	44,0			
66SV3G185T	2 x 18,5	91,4	84,7	82,7	80,5	79,3	75,2	72,0	64,4	59,8	53,5			
66SV4/2AG185T	2 x 18,5	108,9	99,6	96,9	93,8	92,1	86,3	81,6	70,1	62,8	52,8			
66SV4/1AG220T	2 x 22	115,2	105,9	103,1	100,1	98,5	92,9	88,6	77,8	71,1	61,8			
66SV4G220T	2 x 22	121,6	112,5	109,8	106,9	105,3	99,8	95,7	85,5	79,2	70,8			
66SV5/2AG300T	2 x 30	139,1	127,5	124,1	120,2	118,2	111,1	105,5	91,5	82,7	70,4			
66SV5/1AG300T	2 x 30	145,6	134,0	130,5	126,8	124,7	117,8	112,4	99,2	90,9	79,5			
66SV5G300T	2 x 30	152,0	140,4	137,0	133,3	131,3	124,6	119,4	106,8	99,1	88,5			
92SV1/1AG055T	2 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15,0	11,8	7,9
92SV1G075T	2 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	2 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	2 x 15	67,8				58,2	55,3	53,4	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	2 x 18,5	82,4				74,4	71,6	69,6	64,8	62,1	58,6	52,2	43,6	32,9
92SV3G220T	2 x 22	102,2				88,2	84,0	81,2	75,5	72,6	69,2	63,4	55,9	46,3
92SV4/2AG300T	2 x 30	115,7				104,0	99,9	97,0	90,4	86,8	82,1	73,8	62,8	49,0
92SV4G300T	2 x 30	133,1				117,0	111,7	108,0	100,6	96,8	92,3	84,6	74,8	62,5
92SV5/2AG370T	2 x 37	149,0				133,2	127,8	124,0	115,6	111,0	105,2	94,9	81,4	64,6

The table refers to performance with 2 pumps running.

gms_2psv66 -92_2p50-en_b_th

GHV20/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	2000	2400	2833	3400	3800	4000	4300	4600	5333
		m³/h 0	120	144	170	204	228	240	258	276	320
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	2 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	2 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	2 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	2 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	2 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 2 pumps running.

gv_2p125sv_2p50-en_b_th

GHV30/10-15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	600	700	800
		m³/h 0	10	12	16	20,4	22	28	32	39,6	42	48	36	42	48
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
10SV01F007T	3 x 0,75	12	11,2	10,9	9,9	8,3	7,6	4,3							
10SV02F007T	3 x 0,75	24	21,9	21,3	19,6	17,0	15,8	10,0							
10SV03F011T	3 x 1,1	36	33,0	32,1	29,6	25,8	24,1	16,0							
10SV04F015T	3 x 1,5	48	44,2	43,0	39,9	34,8	32,6	21,7							
10SV05F022T	3 x 2,2	60	56,1	54,7	50,9	44,9	42,2	29,0							
10SV06F022T	3 x 2,2	72	66,8	65,0	60,4	53,1	49,8	33,9							
10SV07F030T	3 x 3	84	78,3	76,2	70,8	62,1	58,3	39,8							
10SV08F030T	3 x 3	95	88,9	86,5	80,1	70,2	65,7	44,5							
10SV09F040T	3 x 4	106	100,1	97,5	90,8	80,0	75,1	52,1							
10SV10F040T	3 x 4	118	110,8	107,9	100,3	88,2	82,8	57,2							
10SV11F040T	3 x 4	130	121,3	118,1	109,6	96,3	90,3	62,1							
10SV13F055T	3 x 5,5	156	146,5	142,7	132,6	116,4	109,2	74,3							
15SV01F011T	3 x 1,1	14	0,0	0,0	12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1			
15SV02F022T	3 x 2,2	29	0,0	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	3 x 3	43	0,0	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	3 x 4	58	0,0	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	3 x 4	73	0,0	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	3 x 5,5	88	0,0	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	3 x 5,5	102	0,0	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	3 x 7,5	117	0,0	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	3 x 7,5	132	0,0	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	3 x 11	148	0,0	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The table refers t operformance with 3 pumps running.

gms_3p10-15sv_2p50-en_b_th

5

GHV30/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	250	300	400	510	550	700	810	990	1050	1200	1290	1380	1450
		m³/h 0	15	18	24	30,6	33	42	49	59,4	63	72	77	83	87
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV02F022T	3 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	3 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	3 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	3 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	3 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	3 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	3 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	3 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	3 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 3 pumps running

gv_3p22sv_2p50 en_a_th

GHV30/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY										
		l/min 0	750	900	1100	1250	1500	1750	2000	2250	2700	3000
		m³/h 0	45	54	66	75	90	105	120	135	162	180
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	3 x 2,2	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1G030T	3 x 3	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2AG40T	3 x 4	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1AG40T	3 x 4	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2G055T	3 x 5,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2AG055T	3 x 5,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1G075T	3 x 7,5	64,5	61,3	60	58	56	51	45	37			
33SV3G075T	3 x 7,5	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2AG075T	3 x 7,5	82	78,8	77	74	72	66	58	47,2			
33SV4/1AG110T	3 x 11	88,9	85	83	81	78	73	65	55,1			
33SV4G110T	3 x 11	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2AG110T	3 x 11	106	101,6	100	96	93	85	76	63			
33SV5/1AG110T	3 x 11	112,7	107,2	105	102	99	92	82	70			
33SV5G150T	3 x 15	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2AG150T	3 x 15	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1AG150T	3 x 15	139,1	133,5	131	128	124	116	105	90,4			
33SV6G150T	3 x 15	145,6	139	137	133	129	121	110	96,1			
33SV7/2AG150T	3 x 15	156	149,9	147	143	138	128	115	98,2			
46SV1/1AG030T	3 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	3 x 4	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	3 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	3 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	3 x 11	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3G110T	3 x 11	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2AG150T	3 x 15	92,4			90,7	90	87	83	79	73	58	45,6
46SV4G150T	3 x 15	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2AG185T	3 x 18,5	117,2			114,8	113	110	106	100	93	75	60,2
46SV5G185T	3 x 18,5	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2AG220T	3 x 22	143,7			139,3	138	134	129	122	113	92	73,4
46SV6G220T	3 x 22	161			149,9	148	144	139	132	124	104	86

The table refers to performance with 3 pumps running.

gms_3psv33 46_2p50 en_b_th

GHV30/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1500	1800	2100	2250	2700	3000	3600	3900	4250	4800	5400	6000
		m³/h 0	90	108	126	135	162	180	216	234	255	288	324	360
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	3 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	3 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	3 x 7,5	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1AG110T	3 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	3 x 11	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2AG150T	3 x15	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1AG150T	3 x 15	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3G185T	3 x 18,5	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2AG185T	3 x 18,5	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1AG220T	3 x 22	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4G220T	3 x 22	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2AG300T	3 x 30	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1AG300T	3 x 30	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5G300T	3 x 30	152	140,4	137	133	131	125	119	107	99	88,5			
92SV1/1AG055T	3 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1G075T	3 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	3 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	3 x 15	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	3 x 18,5	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3G220T	3 x 22	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2AG300T	3 x 30	115,7				104	100	97	90	87	82	74	63	49
92SV4G300T	3 x 30	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2AG370T	3 x 37	149				133,2	128	124	116	111	105	95	81	64,6

The table refers to performance with 3 pumps running.

gms_3psv66 -92_2p50-en_b_th

5

GHV30/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	3000	3600	4250	5100	5700	6000	6450	6900	8000
		m³/h 0	180	216	255	306	342	360	387	414	480
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	3 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	3 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	3 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	3 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	3 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 3 pumps running.

gv_3p125sv_2p50-en_b_th

GHV40/10-15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	333	400	533	680	733	933	1080	1320	1400	1600	1200	1400	1600
		m³/h 0	20	24	32	40,8	44	56	65	79,2	84	96	72	84	96
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
10SV01F007T	4 x 0,75	12	11,2	10,9	9,9	8,3	7,6	4,3							
10SV02F007T	4 x 0,75	24	21,9	21,3	19,6	17,0	15,8	10,0							
10SV03F011T	4 x 1,1	36	33,0	32,1	29,6	25,8	24,1	16,0							
10SV04F015T	4 x 1,5	48	44,2	43,0	39,9	34,8	32,6	21,7							
10SV05F022T	4 x 2,2	60	56,1	54,7	50,9	44,9	42,2	29,0							
10SV06F022T	4 x 2,2	72	66,8	65,0	60,4	53,1	49,8	33,9							
10SV07F030T	4 x 3	84	78,3	76,2	70,8	62,1	58,3	39,8							
10SV08F030T	4 x 3	95	88,9	86,5	80,1	70,2	65,7	44,5							
10SV09F040T	4 x 4	106	100,1	97,5	90,8	80,0	75,1	52,1							
10SV10F040T	4 x 4	118	110,8	107,9	100,3	88,2	82,8	57,2							
10SV11F040T	4 x 4	130	121,3	118,1	109,6	96,3	90,3	62,1							
10SV13F055T	4 x 5,5	156	146,5	142,7	132,6	116,4	109,2	74,3							
15SV01F011T	4 x 1,1	14	0,0	0,0	12,9	12,4	12,2	11,3	10,4	8,4	7,6	5,1			
15SV02F022T	4 x 2,2	29	0,0	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	4 x 3	43	0,0	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	4 x 4	58	0,0	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	4 x 4	73	0,0	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	4 x 5,5	88	0,0	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	4 x 5,5	102	0,0	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	4 x 7,5	117	0,0	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	4 x 7,5	132	0,0	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	4 x 11	148	0,0	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The table refers t operformance with 4 pumps running.

gms4p10-15sv_2p50-en_a_th

GHV40/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	333	400	533	680	733	933	1080	1320	1400	1600	1720	1840	1933
		m³/h 0	20	24	32	40,8	44	56	65	79,2	84	96	103	110	116
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV02F022T	4 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	4 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	4 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	4 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	4 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	4 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	4 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	4 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	4 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 4 pumps running

gv_4p22sv_2p50-en_a_th

GHV40/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY										
		l/min 0	1000	1200	1466,67	1666,67	2000	2333,33	2666,67	3000	3600	4000
		m³/h 0	60	72	88	100	120	140	160	180	216	240
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	4 x 2,2	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1G030T	4 x 3	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2AG40T	4 x 4	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1AG40T	4 x 4	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2G055T	4 x 5,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2AG055T	4 x 5,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1G075T	4 x 7,5	64,5	61,3	60	58	56	51	45	37			
33SV3G075T	4 x 7,5	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2AG075T	4 x 7,5	82	78,8	77	74	72	66	58	47,2			
33SV4/1AG110T	4 x 11	88,9	85	83	81	78	73	65	55,1			
33SV4G110T	4 x 11	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2AG110T	4 x 11	106	101,6	100	96	93	85	76	63			
33SV5/1AG110T	4 x 11	112,7	107,2	105	102	99	92	82	70			
33SV5G150T	4 x 15	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2AG150T	4 x 15	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1AG150T	4 x 15	139,1	133,5	131	128	124	116	105	90,4			
33SV6G150T	4 x 15	145,6	139	137	133	129	121	110	96,1			
33SV7/2AG150T	4 x 15	156	149,9	147	143	138	128	115	98,2			
46SV1/1AG030T	4 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	4 x 4	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	4 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	4 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	4 x 11	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3G110T	4 x 11	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2AG150T	4 x 15	92,4			90,7	90	87	83	79	73	58	45,6
46SV4G150T	4 x 15	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2AG185T	4 x 18,5	117,2			114,8	113	110	106	100	93	75	60,2
46SV5G185T	4 x 18,5	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2AG220T	4 x 22	143,7			139,3	138	134	129	122	113	92	73,4
46SV6G220T	4 x 22	161			149,9	148	144	139	132	124	104	86

The table refers t operformance with 4 pumps running.

gms_4psv33 -46_2p50_a_th

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GHV40/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV13/..	NOMINAL POWER	Q = DELIVERY												
		l/min 0	2000	2400	2800	3000	3600	4000	4800	5200	5666,67	6400	7200	8000
		m³/h 0	120	144	168	180	216	240	288	312	340	384	432	480
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	4 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	4 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	4 x 7,5	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1AG110T	4 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	4 x 11	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2AG150T	4 x15	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1AG150T	4 x 15	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3G185T	4 x 18,5	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2AG185T	4 x 18,5	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1AG220T	4 x 22	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4G220T	4 x 22	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2AG300T	4 x 30	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1AG300T	4 x 30	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5G300T	4 x 30	152	140,4	137	133	131	125	119	107	99	88,5			
92SV1/1AG055T	4 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1G075T	4 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	4 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	4 x 15	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	4 x 18,5	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3G220T	4 x 22	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2AG300T	4 x 30	115,7				104	100	97	90	87	82	74	63	49
92SV4G300T	4 x 30	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2AG370T	4 x 37	149				133,2	128	124	116	111	105	95	81	64,6

The table refers to performance with 4 pumps running.

gv_4p66-92sv_2p50-en_a_th

GHV40/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	4000	4800	5667	6800	7600	8000	8600	9200	10667
		m³/h 0	240	288	340	408	456	480	516	552	640
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	4 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	4 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	4 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	4 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	4 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 4 pumps running.

gv_4p125sv_2p50-en_b_th

GV Series

Three-phase variable-speed pressure units with SD60 controller.

Specifications

Number of pumps: 1 to 6
Delivery: up to 960 m^3/h
Head: up to 160 m
Electric supply panel voltage:
3 x 400 V 50 Hz (three-phase)
Power: up to 37 kW
Motor starting: D.O.L. up to 22 kW,
Star-delta (SD) above 22kW
Water temperature: 0°C to +80°C
Type of pump: Vertical multistage pump eSV™ series

Materials

Pump: Stainless steel
Manifolds: AISI 304 stainless steel
Base: Steel painted

Product applications and characteristics

Water supply for heating and washing systems and sanitary water

Irrigation

A jockey pump can be used on the pressure booster unit

Trouble-free installation with flanged connectors

Trouble-free servicing

Pressure transducer control (one in run and one in stand-by)

Compact solution

Dry running protection

Fully factory-tested

Automatic cascade operation

Automatic pump rotation

Water hammer reduction

Energy saving

Double pressure transmitter

High quality materials only

eSV™ pump technology

Automatic switching

Integration in BMS systems via RS485 Modbus

ETHERNET control and Web Server

INTERNET control

Communication with remote PLC systems

USB port for Service

PID control - max comfort e performance consistency



For a complete list of technical information, consult www.lowara.com

GV11/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	860	920	967
		m³/h 0	10	12	16	20,4	22	28	32	39,6	42	48	52	55	58
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV05F055T	2 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	2 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	2 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	2 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	2 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	2 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 2 pumps running

gv_2p22sv_2p50 -en_a_th

GV11/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV11/..	NOMINAL POWER	Q = DELIVERY										
		l/min 0	500	600	733	833	1000	1167	1333	1500	1800	2000
		m³/h 0	30	36	44	50	60	70	80	90	108	120
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	2 x 2,2	17,4	16,2	15,7	15,0	14,0	12,2	9,8	6,7			
33SV1G030T	2 x 3	23,8	21,7	21,2	20,3	20,0	17,8	15,5	12,7			
33SV2/2AG040T	2 x 4	35,1	34,1	33,3	32,0	30,0	27,0	22,4	16,6			
33SV2/1AG040T	2 x 4	40,8	38,8	37,9	36,0	35,0	32,0	27,5	22,3			
33SV2G055T	2 x 5,5	47,8	45,0	44,1	43,0	41,0	39,0	35,0	29,9			
33SV3/2AG055T	2 x 5,5	57,7	55,2	53,8	51,0	49,0	44,0	38,0	29,6			
33SV3/1AG075T	2 x 7,5	64,5	61,3	60,0	58,0	56,0	51,0	45,0	37,0			
33SV3G075T	2 x 7,5	71,5	67,4	66,0	64,0	62,0	58,0	52,0	44,6			
33SV4/2AG075T	2 x 7,5	82,0	78,8	77,0	74,0	72,0	66,0	58,0	47,2			
33SV4/1AG110T	2 x 11	88,9	85,0	83,0	81,0	78,0	73,0	65,0	55,1			
33SV4G110T	2 x 11	95,9	91,1	90,0	87,0	85,0	80,0	73,0	63,1			
33SV5/2AG110T	2 x 11	106,0	101,6	100,0	96,0	93,0	85,0	76,0	63,0			
33SV5/1AG110T	2 x 11	112,7	107,2	105,0	102,0	99,0	92,0	82,0	70,0			
33SV5G150T	2 x 15	120,4	114,9	113,0	110,0	107,0	101,0	92,0	80,5			
33SV6/2AG150T	2 x 15	131,2	126,9	125,0	120,0	116,0	108,0	96,0	81,2			
33SV6/1AG150T	2 x 15	139,1	133,5	131,0	128,0	124,0	116,0	105,0	90,4			
33SV6G150T	2 x 15	145,6	139,0	137,0	133,0	129,0	121,0	110,0	96,1			
33SV7/2AG150T	2 x 15	156,0	149,9	147,0	143,0	138,0	128,0	115,0	98,2			
46SV1/1AG030T	2 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	2 x 4	27,2			24,0	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	2 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	2 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	2 x 11	64,7			65,1	64,0	62,0	60,0	56,0	52,0	40,4	30,8
46SV3G110T	2 x 11	80,8			74,3	73,0	71,0	68,0	65,0	60,0	50,0	40,7
46SV4/2AG150T	2 x 15	92,4			90,7	90,0	87,0	83,0	79,0	73,0	58,0	45,6
46SV4G150T	2 x 15	107,3			99,8	98,0	96,0	92,0	87,0	82,0	68,0	55,9
46SV5/2AG185T	2 x 18,5	117,2			114,8	113,0	110,0	106,0	100,0	93,0	75,0	60,2
46SV5G185T	2 x 18,5	134,5			125,1	123,0	120,0	116,0	110,0	103,0	86,0	71,5
46SV6/2AG220T	2 x 22	143,7			139,3	138,0	134,0	129,0	122,0	113,0	92,0	73,4
46SV6G220T	2 x 22	161,0			149,9	148,0	144,0	139,0	132,0	124,0	104,0	86,0

The table refers to performance with 2 pumps running.

gv_2p33-46sv_2p50 -en_a_th

GV11/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV11/..	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1000	1200	1400	1500	1800	2000	2400	2600	2833,33	3200	3600	4000
		m³/h 0	60	72	84	90	108	120	144	156	170	192	216	240
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	2 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	2 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	2 x 7,5	47,5	42,6	41,2	39,5	38,6	35,5	32,9	26,4	22,2	16,4			
66SV2/1AG110T	2 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	2 x 11	60,4	55,7	54,4	52,8	52,0	49,3	47,1	42,0	38,9	34,7			
66SV3/2AG150T	2 x 15	78,4	71,6	69,6	67,2	65,9	61,5	57,9	49,0	43,3	35,3			
66SV3/1AG150T	2 x 15	84,7	77,8	75,8	73,5	72,2	68,0	64,6	56,3	51,1	44,0			
66SV3G185T	2 x 18,5	91,4	84,7	82,7	80,5	79,3	75,2	72,0	64,4	59,8	53,5			
66SV4/2AG185T	2 x 18,5	108,9	99,6	96,9	93,8	92,1	86,3	81,6	70,1	62,8	52,8			
66SV4/1AG220T	2 x 22	115,2	105,9	103,1	100,1	98,5	92,9	88,6	77,8	71,1	61,8			
66SV4G220T	2 x 22	121,6	112,5	109,8	106,9	105,3	99,8	95,7	85,5	79,2	70,8			
66SV5/2AG300T	2 x 30	139,1	127,5	124,1	120,2	118,2	111,1	105,5	91,5	82,7	70,4			
66SV5/1AG300T	2 x 30	145,6	134,0	130,5	126,8	124,7	117,8	112,4	99,2	90,9	79,5			
66SV5G300T	2 x 30	152,0	140,4	137,0	133,3	131,3	124,6	119,4	106,8	99,1	88,5			
92SV1/1AG055T	2 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15,0	11,8	7,9
92SV1G075T	2 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	2 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	2 x 15	67,8				58,2	55,3	53,4	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	2 x 18,5	82,4				74,4	71,6	69,6	64,8	62,1	58,6	52,2	43,6	32,9
92SV3G220T	2 x 22	102,2				88,2	84,0	81,2	75,5	72,6	69,2	63,4	55,9	46,3
92SV4/2AG300T	2 x 30	115,7				104,0	99,9	97,0	90,4	86,8	82,1	73,8	62,8	49,0
92SV4G300T	2 x 30	133,1				117,0	111,7	108,0	100,6	96,8	92,3	84,6	74,8	62,5
92SV5/2AG370T	2 x 37	149,0				133,2	127,8	124,0	115,6	111,0	105,2	94,9	81,4	64,6

The table refers to performance with 2 pumps running.

gv_2p66-92sv_2p50-en_a_th

5

GV11/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	2000	2400	2833	3400	3800	4000	4300	4600	5333
		m³/h 0	120	144	170	204	228	240	258	276	320
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	2 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	2 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	2 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	2 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	2 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 2 pumps running.

gv_2p125sv_2p50-en_b_th

GV12/15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	167	200	267	340	367	467	540	660	700	800	600	700	800
		m³/h 0	10	12	16	20,4	22	28	32	39,6	42	48	36	42	48
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
15SV02F022T	3 x 2,2	29	0,0	0,0	26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	3 x 3	43	0,0	0,0	40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	3 x 4	58	0,0	0,0	54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	3 x 4	73	0,0	0,0	67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	3 x 5,5	88	0,0	0,0	81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	3 x 5,5	102	0,0	0,0	94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	3 x 7,5	117	0,0	0,0	110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	3 x 7,5	132	0,0	0,0	124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	3 x 11	148	0,0	0,0	138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The table refers t operformance with 3 pumps running.

gv_3p15sv_2p50 en_a_th

GV12/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	250	300	400	510	550	700	810	990	1050	1200	1290	1380	1450
		m³/h 0	15	18	24	30,6	33	42	49	59,4	63	72	77	83	87
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV02F022T	3 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	3 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	3 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	3 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	3 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	3 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	3 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	3 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	3 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 3 pumps running

gv_3p22sv_2p50 en_a_th

GV12/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV12/..	NOMINAL POWER	Q = DELIVERY										
		l/min 0	750	900	1100	1250	1500	1750	2000	2250	2700	3000
		m³/h 0	45	54	66	75	90	105	120	135	162	180
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	3 x 2,2	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1G030T	3 x 3	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2AG040T	3 x 4	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1AG040T	3 x 4	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2G055T	3 x 5,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2AG055T	3 x 5,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1AG075T	3 x 7,5	64,5	61,3	60	58	56	51	45	37			
33SV3G075T	3 x 7,5	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2AG075T	3 x 7,5	82	78,8	77	74	72	66	58	47,2			
33SV4/1AG110T	3 x 11	88,9	85	83	81	78	73	65	55,1			
33SV4G110T	3 x 11	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2AG110T	3 x 11	106	101,6	100	96	93	85	76	63			
33SV5/1AG110T	3 x 11	112,7	107,2	105	102	99	92	82	70			
33SV5G150T	3 x 15	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2AG150T	3 x 15	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1AG150T	3 x 15	139,1	133,5	131	128	124	116	105	90,4			
33SV6G150T	3 x 15	145,6	139	137	133	129	121	110	96,1			
33SV7/2AG150T	3 x 15	156	149,9	147	143	138	128	115	98,2			
46SV1/1AG030T	3 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	3 x 4	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	3 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	3 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	3 x 11	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3G110T	3 x 11	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2AG150T	3 x 15	92,4			90,7	90	87	83	79	73	58	45,6
46SV4G150T	3 x 15	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2AG185T	3 x 18,5	117,2			114,8	113	110	106	100	93	75	60,2
46SV5G185T	3 x 18,5	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2AG220T	3 x 22	143,7			139,3	138	134	129	122	113	92	73,4
46SV6G220T	3 x 22	161			149,9	148	144	139	132	124	104	86

The table refers to performance with 3 pumps running.

gv_3p33-46sv_2p50_a_th

GV12/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV12/..	NOMINAL POWER	Q = DELIVERY												
		l/min 0	1500	1800	2100	2250	2700	3000	3600	3900	4250	4800	5400	6000
		m³/h 0	90	108	126	135	162	180	216	234	255	288	324	360
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	3 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	3 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	3 x 7,5	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1AG110T	3 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	3 x 11	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2AG150T	3 x15	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1AG150T	3 x 15	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3G185T	3 x 18,5	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2AG185T	3 x 18,5	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1AG220T	3 x 22	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4G220T	3 x 22	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2AG300T	3 x 30	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1AG300T	3 x 30	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5G300T	3 x 30	152	140,4	137	133	131	125	119	107	99	88,5			
92SV1/1AG055T	3 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1G075T	3 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	3 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	3 x 15	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	3 x 18,5	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3G220T	3 x 22	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2AG300T	3 x 30	115,7				104	100	97	90	87	82	74	63	49
92SV4G300T	3 x 30	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2AG370T	3 x 37	149				133,2	128	124	116	111	105	95	81	64,6

The table refers to performance with 3 pumps running.

gv_3p66-92sv_2p50-en_a_th

GV12/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	3000	3600	4250	5100	5700	6000	6450	6900	8000
		m³/h 0	180	216	255	306	342	360	387	414	480
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	3 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	3 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	3 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	3 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	3 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 3 pumps running.

gv_3p125sv_2p50-en_b_th

GV13/15SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	333	400	533	680	733	933	1080	1320	1400	1600	1200	1400	1600
		m³/h 0	20	24	32	40,8	44	56	65	79,2	84	96	72	84	96
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
15SV02F022T	4 x 2,2	29			26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SV03F030T	4 x 3	43			40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SV04F040T	4 x 4	58			54,7	53,1	52,5	49,4	46,3	39,7	36,9	28,7			
15SV05F040T	4 x 4	73			67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SV06F055T	4 x 5,5	88			81,5	79,4	78,4	74,1	69,9	60,3	56,3	44,2			
15SV07F055T	4 x 5,5	102			94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SV08F075T	4 x 7,5	117			110,9	108,0	106,8	100,8	94,9	82,0	76,7	60,6			
15SV09F075T	4 x 7,5	132			124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SV10F110T	4 x 11	148			138,8	135,3	133,8	126,7	119,6	103,9	97,4	77,5			

The tabel referers to performance with 4 pumps running

gv_4p15sv_2p50_a_th

GV13/22SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY													
		l/min 0	333	400	533	680	733	933	1080	1320	1400	1600	1720	1840	1933
		m³/h 0	20	24	32	40,8	44	56	65	79,2	84	96	103	110	116
	kW	H = TOTAL HEAD METRES COLUMN OF WATER													
22SV02F022T	4 x 2,2	30					28,4	27,2	26,0	23,3	22,2	18,9	16,6	13,8	11,5
22SV03F030T	4 x 3	45					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SV04F040T	4 x 4	61					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SV05F055T	4 x 5,5	76					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SV06F075T	4 x 7,5	93					88,8	85,7	82,5	75,4	72,4	63,3	56,7	49,1	42,6
22SV07F075T	4 x 7,5	109					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SV08F110T	4 x 11	125					119,2	115,2	111,0	101,6	97,7	85,7	77,0	66,9	58,2
22SV09F110T	4 x 11	140					133,7	129,2	124,4	113,8	109,3	95,8	86,0	74,6	64,8
22SV10F110T	4 x 11	155					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3

The tabel referers to performance with 4 pumps running

gv_4p22sv_2p50 -en_a_th

GV13/33-46SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV13/..	NOMINAL POWER	Q = DELIVERY										
		l/min 0	1000	1200	1466,67	1666,67	2000	2333,33	2666,67	3000	3600	4000
		m³/h 0	60	72	88	100	120	140	160	180	216	240
	kW	H = TOTAL HEAD METRES COLUMN OF WATER										
33SV1/1AG022T	4 x 2,2	17,4	16,2	15,7	15	14	12,2	9,8	6,7			
33SV1G030T	4 x 3	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SV2/2AG040T	4 x 4	35,1	34,1	33,3	32	30	27	22,4	16,6			
33SV2/1AG040T	4 x 4	40,8	38,8	37,9	36	35	32	27,5	22,3			
33SV2G055T	4 x 5,5	47,8	45	44,1	43	41	39	35	29,9			
33SV3/2AG055T	4 x 5,5	57,7	55,2	53,8	51	49	44	38	29,6			
33SV3/1AG075T	4 x 7,5	64,5	61,3	60	58	56	51	45	37			
33SV3G075T	4 x 7,5	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SV4/2AG075T	4 x 7,5	82	78,8	77	74	72	66	58	47,2			
33SV4/1AG110T	4 x 11	88,9	85	83	81	78	73	65	55,1			
33SV4G110T	4 x 11	95,9	91,1	90	87	85	80	73	63,1			
33SV5/2AG110T	4 x 11	106	101,6	100	96	93	85	76	63			
33SV5/1AG110T	4 x 11	112,7	107,2	105	102	99	92	82	70			
33SV5G150T	4 x 15	120,4	114,9	113	110	107	101	92	80,5			
33SV6/2AG150T	4 x 15	131,2	126,9	125	120	116	108	96	81,2			
33SV6/1AG150T	4 x 15	139,1	133,5	131	128	124	116	105	90,4			
33SV6G150T	4 x 15	145,6	139	137	133	129	121	110	96,1			
33SV7/2AG150T	4 x 15	156	149,9	147	143	138	128	115	98,2			
46SV1/1AG030T	4 x 3	19,5			19,2	18,8	17,9	16,7	15,1	13,1	8,5	4,6
46SV1G040T	4 x 4	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SV2/2AG055T	4 x 5,5	38,8			39,8	39,2	37,8	35,7	32,9	29,4	21,1	13,9
46SV2G075T	4 x 7,5	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SV3/2AG110T	4 x 11	64,7			65,1	64	62	60	56	52	40,4	30,8
46SV3G110T	4 x 11	80,8			74,3	73	71	68	65	60	50	40,7
46SV4/2AG150T	4 x 15	92,4			90,7	90	87	83	79	73	58	45,6
46SV4G150T	4 x 15	107,3			99,8	98	96	92	87	82	68	55,9
46SV5/2AG185T	4 x 18,5	117,2			114,8	113	110	106	100	93	75	60,2
46SV5G185T	4 x 18,5	134,5			125,1	123	120	116	110	103	86	71,5
46SV6/2AG220T	4 x 22	143,7			139,3	138	134	129	122	113	92	73,4
46SV6G220T	4 x 22	161			149,9	148	144	139	132	124	104	86

The table refers to performance with 4 pumps running.

gv_4p33-46sv_2p50-en_a_th

GV13/66-92SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

SET TYPE GV13/..	NOMINAL POWER	Q = DELIVERY												
		l/min 0	2000	2400	2800	3000	3600	4000	4800	5200	5666,67	6400	7200	8000
		m³/h 0	120	144	168	180	216	240	288	312	340	384	432	480
	kW	H = TOTAL HEAD METRES COLUMN OF WATER												
66SV1/1AG040T	4 x 4	23,8	21,4	20,7	19,9	19,4	17,8	16,6	13,3	11,2	8,3			
66SV1G055T	4 x 5,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SV2/2AG075T	4 x 7,5	47,5	42,6	41,2	39,5	38,6	36	32,9	26,4	22,2	16,4			
66SV2/1AG110T	4 x 11	54,2	49,6	48,2	46,7	45,8	42,9	40,6	34,8	31,2	26,2			
66SV2G110T	4 x 11	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SV3/2AG150T	4 x15	78,4	71,6	70	67	66	62	58	49	43,3	35,3			
66SV3/1AG150T	4 x 15	84,7	77,8	76	74	72	68	65	56	51	44,0			
66SV3G185T	4 x 18,5	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SV4/2AG185T	4 x 18,5	108,9	99,6	97	94	92	86	82	70	63	52,8			
66SV4/1AG220T	4 x 22	115,2	105,9	103	100	99	93	89	78	71	61,8			
66SV4G220T	4 x 22	121,6	112,5	110	107	105	100	96	86	79	70,8			
66SV5/2AG300T	4 x 30	139,1	127,5	124	120	118	111	106	92	83	70,4			
66SV5/1AG300T	4 x 30	145,6	134	131	127	125	118	112	99	91	79,5			
66SV5G300T	4 x 30	152	140,4	137	133	131	125	119	107	99	88,5			
92SV1/1AG055T	4 x 5,5	24,5				22,2	21,5	20,9	19,4	18,5	17,3	15	11,8	7,9
92SV1G075T	4 x 7,5	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SV2/2AG110T	4 x 11	49,4				45,1	43,7	42,5	39,6	37,9	35,5	30,9	24,6	16,8
92SV2G150T	4 x 15	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SV3/2AG185T	4 x 18,5	82,4				74,4	72	70	65	62	59	52	43,6	32,9
92SV3G220T	4 x 22	102,2				88,2	84	81	76	73	69	63	56	46,3
92SV4/2AG300T	4 x 30	115,7				104	100	97	90	87	82	74	63	49
92SV4G300T	4 x 30	133,1				117	112	108	101	97	92	85	75	62,5
92SV5/2AG370T	4 x 37	149				133,2	128	124	116	111	105	95	81	64,6

The table refers to performance with 4 pumps running.

gv_4p66-92sv_2p50 -en_a_th

5

GV13/125SV SERIES OF PRESSURE BOOSTERS
Hydraulic performance table at 50 Hz (service)

PUMP TYPE	NOMINAL POWER	Q = DELIVERY									
		l/min 0	4000	4800	5667	6800	7600	8000	8600	9200	10667
		m³/h 0	240	288	340	408	456	480	516	552	640
	kW	H = TOTAL HEAD METRES COLUMN OF WATER									
125SV1G075T	4 x 7,5	27,6	20,8	19,8	18,6	16,8	15,3	14,4	12,9	11,3	6,2
125SV2G150T	4 x 15	53,8	44,4	42,5	40,4	37,1	34,4	32,9	30,4	27,7	19,6
125SV3G220T	4 x 22	80,7	66,5	63,8	60,6	55,7	51,6	49,4	45,7	41,5	29,4
125SV4G300T	4 x 30	107,6	88,7	85,0	80,7	74,2	68,8	65,8	60,9	55,4	39,2
125SV5G370T	4 x 37	134,5	110,9	106,3	100,9	92,8	86,0	82,3	76,1	69,2	49,0

The table refers to performance with 4 pumps running.

gv_4p125sv_2p50-en_b_th

Frequency Converters 6

HYDROVAR® SERIES

HVW SERIES
Water cooled Hydrovar® pump units 505

HV 2.015 - 4.110 SERIES
Hydrovar® 1,5 to 11 kW 506

HV 4.150 - 4.220 SERIES
Hydrovar® 15 to 22 kW 507

HVS 1.1 SERIES 508

HV 3.30 - 3.37 - 3.45 WALL-MOUNTED SERIES
Hydrovar® wall mounted 30 to 45 kW 509

AQUONTROLLER SERIES

AQUONTROLLER SERIES
230 VAC drive per motori monofase 510

PUMP SYSTEMS WITH INTEGRATED FREQUENCY CONVERTER

TKS SERIES
Teknospeed variable speed electric pumps 512

SVH SERIES
Vertical multistage pump with Hydrovar® 513

HVW Series

Single-phase pump connected to the water-cooled Hydrovar® frequency converter. Connected to electric pumps BG, CA, CEA, HM and e-SV™.

Specifications

Delivery: up to 5-6 m^3/h
Head: up to 40-50 metres
Power supply: single-phase 50 and 60 Hz
Power: 0.75 kW
Motor starting: variable frequency operation
Maximum operating pressure: 8 bar
Temperature of pumped liquid: 0°C to +50°C
Number of pumps: 1
Pump type: centrifugal

Materials

Pump: Stainless steel

Product applications and characteristics

Water supply

Heating and air-conditioning

Irrigation

Easy to install

Control without external pressure transducer

Compact solution

Frequency operation cooled by the pumped liquid

Protection against dry running

Overheating protection

Overvoltage and undervoltage protection

Overload protection



6

For a complete list of technical information, consult www.lowara.com

HV 2.015 - 4.110 Series

Frequency converter Hydrovar® type for single-phase and three-phase electric motor.

Specifications

Power input:
1 x 220-240 VAC -10%+15%
3 x 380-460 VAC +/- 15%
Motor output voltage:
3 x 220-240 VAC
3 x 380-460 VAC
Power output: 1.5 - 11 kW
Body: IP55
Ambient temperature range: 0-52°C
(Above 40°C with decreased power only)

Product features

Easy to install

Direct assembly on pump

Can be retrofitted on any existing pump

Overheating protection

Overvoltage and undervoltage protection

Overload protection

Pump/s stop/s when not in use

Protection against dry running

Compact design

Pressure or delivery control depending on system and customer requirements

One pressure booster unit with several pumps can be controlled without the need for addition control logic (each Hydrovar can act as master)

Variation in pump acceleration and deceleration ramps

Automatic pressure drop compensation caused by the increase in delivery

Analogue signal sent for remote pressure and frequency monitoring

Automatic pump test

All functions indicated on LCD in fourteen different languages

Modbus communication included as standard

Up to 8 pumps can be connected (multi-controller mode)

Fixed speed control mode up to 5 pumps (cascade relay mode)

Available in the Basic/Master version for Multi-controller applications and as Single version for single pump applications



For a complete list of technical information, consult www.lowara.com

HV 4.150 - 4.220 Series

Frequency converter Hydrovar® type for three-phase electric motor.

Specifications

Power input: 3 x 380-460 VAC +/- 15%
Motor output voltage: 3 x 380-460 VAC
Power output: 15 - 22 kW
Body: IP55
Ambient temperature range:
0-52°C (Above 40°C with decreased power only)

Product features

Easy to install

Direct assembly on pump

Can be retrofitting on existing pumps

Overheating protection

Overvoltage and undervoltage protection

Overload protection

Pump/s stop/s when not in use

Protection against dry running

Compact design

Pressure or delivery control depending on system and customer requirements

One pressure booster unit with several pumps can be controlled without the need for addition control logic

(Each Hydrovar can act as master)

Variation in pump acceleration and deceleration ramps

Automatic pressure drop compensation caused by the increase in delivery

Analogue signal sent for remote pressure and frequency monitoring

Automatic pump test

All functions indicated on LCD in forteen different languages

Modbus communication included as standard

Up to 8 pumps can be connected (multi-controller mode)

Fixed speed control mode up to 5 pumps (cascade relay mode)



For a complete list of technical information, consult www.lowara.com

HVS 1.1 Series

Frequency converter Hydrovar® Sensorless type for single-phase and three-phase electric motor.

Specifications

Power input: 1 x 220-240 VAC +/- 15%
Motor output voltage: 3 x 220-240 VAC
Power output: 1.1kW
Body: IP55
Ambient temperature range: (over 40°C with decreased power only) 0-52°C

Product features

Sensorless control for circulation systems - no need for differential pressure sensor

Control via current input

Easy to install

Direct assembly on pump

Can be mounted on existing pumps

Overheating protection

Overvoltage and undervoltage protection

Overload protection

Compact design

Variation in pump acceleration and deceleration ramps

Automatic pressure drop compensation caused by the increase in delivery

Analogue signal sent for remote pressure and frequency monitoring

Automatic pump test



For a complete list of technical information, consult www.lowara.com

HV 3.30-3.37-3.45 wall-mounted Series

Frequency converter Hydrovar® type for three-phase electric motor.

Specifications

Power input: 3 x 380-460 VAC +/- 15%
Motor output voltage: 3 x Uin (input voltage)
Power output: 30 - 45 kW
Body: IP54
Ambient temperature range: (over 40°C with decreased power only) 0-52°C

Product features

Easy to install

Overheating protection

Overvoltage and undervoltage protection

Overload protection

Pump/s stop/s when not in use

Protection against dry running

Pressure or delivery control depending on system and customer requirements

One pressure booster unit with several pumps can be controlled without the need for addition control logic (each Hydrovar can act as master)

Variation in pump acceleration and deceleration ramps

Automatic pressure drop compensation caused by the increase in delivery.

Analogue signal sent for remote pressure and frequency monitoring

Automatic pump test

All functions indicated on LCD in seven different languages



For a complete list of technical information, consult www.lowara.com

AQUONTROLLER Series

MMW07, MMW12, MMA07 and MMA12.

230 VAC drive for single phase motors

The AQUONTROLLER is specially designed for maintaining constant pressure independent of flow for maximum comfort.
Energy savings are the result of the precise speed control.

Top quality components guarantee high reliability and a trouble-free life.
The inverter has inbuilt protection against various system and electrical faults.
Smooth operation and soft starting ensure silent running and an extended pump life.

With pipe or wall mounted versions, the quick set up means easy installation.



MMA water-cooled,
wall mounted



MMW water-cooled,
pipe mounted

For a complete list of technical information, consult www.lowara.com

Technical data

AQUONTROLLER	MMW07	MMW12	MMA07	MMA12
Part Number	109899360	109899370	109899380	109899390
Brief Description	Inverter 230V 1phase/1phase water-cooled pipe mounted up to 7A Inom	Inverter 230V 1phase/1phase water-cooled pipe mounted up to 12A Inom	Inverter 230V 1phase/1phase air-cooled wall mounted up to 7A Inom	Inverter 230V 1phase/1phase air-cooled wall mounted up to 12A Inom
Power Supply	230 VAC (170÷270 VAC)			
Frequency	50/60 Hz			
Max. Input Current	10 A	19 A	10 A	19 A
Output, Motor Supply	1~ 230 VAC			
Output Frequency	10 ÷ 50/60 Hz (resolution 0.01 Hz)			
Nominal Motor Current	7 A	12 A	7 A	12 A
Setpoint Pressure Range	1.0÷7.5 bar ± 0.2 bar			
Start/Stop Ramp	0.7 ÷ 5 sec			
Max. Overpressure	12 bar		–	
Operating Temperature	Ta: 0 ÷ +40°C			
Display	LCD 2 lines x 16 characters			
Pressure Sensor	integrated		included, 5m cable	
Flow Detection	integrated		terminal for level switch	
No Return Valve	integrated		–	
Recommended Pressure Tank	8 litres		20 litres	
Installation	pipe mounted		wall mounted	
Position	any position		vertical position	
Piping Inlet/Outlet	1¼" female		–	
Weight	3.6 kg		4.7 kg	
Dimensions (HxWxD)	375x185x165 mm		365x247x165 mm	
Protection Rating	IP65		IP20	

Integrated protections

Electrical Protection:
max. current absorbed, under- and overvoltage, short circuit between phase/ground or phase/phase, over temperature

Hydraulic Protection:
dry run, low system pressure, pressure sensor fault, warning: water losses and water hammer

Optional accessories

IMPEDANCE COIL 109891550	where motor cables are over 5m (flat cables over 20m) and up to max. 100m length, Impedance: 2x 1mH
EMC LINE FILTER 109690280	for use in harsh environments particularly sensitive to electromagnetic interference. 250 V AC/DC, 2 x 50 A

TKS Series

Single-phase pump with integrated Teknospeed variable speed device. Connected to electric pumps BG, CA, CEA, HM and SV™.

Specifications

Delivery: up to 10 m^3/h
Head: up to 75 metres
Power supply: single-phase
50 and 60 Hz
Power: 0.37 kW to 1.1 kW
Motor starting: variable frequency operation
Maximum operating pressure:
8 bar (BG, CA, CEA and HM series),
16 bar (SV series)
Temperature of pumped liquid:
0°C to +40°C
Number of pumps: 1
Pump type: horizontal and vertical

Materials

Pump: Stainless steel

Product features

Easy to install

Trouble-free servicing

Pressure transducer controlled

Constant output

Variable speed motors with consequently reduced noise

Protection against dry running

Accessories: hydro tube, connector, pressure gauge

Applications

Water supply

Heating and air-conditioning

Irrigation

Water supply for heating and washing systems



For a complete list of technical information, consult www.lowara.com

SVH Series

Multi-stage vertical centrifugal electric pumps fitted with Hydrovar®, a microprocessor-based control unit designed to manage pump performance according to system conditions and demand. A special version of e-SV™ which becomes an intelligent, variable speed system. Ideal for single pumping solution or multiple pumping systems solution (up to 8 pumps).

Specifications

Delivery: up to 160 m^3/h
Head: up to 330 m
Power supply: three-phase and single-phase 50 and 60 Hz
Power: 0.25 kW to 45 kW
Maximum operating pressure: 16, 25 or 40 bar (depending on the model and configuration)
Temperature of pumped liquid: 0°C to +80°C

Hydrovar specifications

Power input:
1 x 230 VAC ± 15%
3 x 380-460 VAC ± 15%
Motor output voltage:
3 x 220-240 VAC (Input voltage)
3 x 380-460 VAC (Input voltage)
Power output: 1.1-45 kW (up to 22 kW assembled on motor)
Power: 0.25 kW to 45 kW
Protection: IP55
Ambient temperature: 0°C to +40 (52)°C

Materials

Pump: Stainless steel (see specific eSV™ section)

Applications

Water distribution, irrigation

Heating, ventilation

Pressure boosting, cooling and chilling

Industrial washing equipment, general industry

Water treatment

Filtration systems

Auxiliary equipment
Available on request:
– Version with IE3 motor
– version with 4-pole motor
The following pages show data concerning models 1,3, 5, 10, 15 and 22SV.

Many construction versions are available, with models featuring 1 to 125 m^3/h nominal capacities.



For a complete list of technical information, consult www.lowara.com

Operating principle

The main function of the HYDROVAR® device is to control the pump to meet system demands.

HYDROVAR® performs these functions by:
1) Measuring the system pressure or flow via a transmitter mounted on the pump's delivery side.
2) Calculating the motor speed to maintain the correct flow or pressure.
3) Sending out a signal to the pump to start the motor, increase speed, decrease speed or stop.
4) In the case of multiple pump installations, HYDROVAR® will automatically provide for the cyclic changeover of the pumps' starting sequence.

In addition to these basic functions, HYDROVAR® can do things that are normally only performed by the most advanced computerised control systems, such as:

Stop the pump or pumps at zero demand.

Stop the pump or pumps in case of water failure on the suction side (protection against dry running).

Stop the pump if the required delivery exceeds the pump's capacity (protection against cavitation caused by excessive demand), or automatically switch on the next pump in a multiple series.

Protect the pump and motor from overvoltage, undervoltage, overload and earth fault.

Vary the pump speed acceleration and deceleration time.

Automatic pressure drop compensation caused by the increase in delivery.

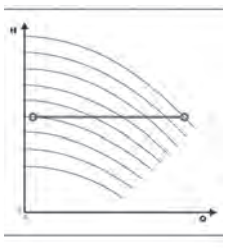
Conduct automatic test starts at set intervals.

Monitor the converter and motor operating hours.

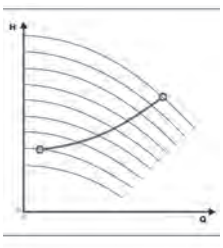
Display all functions on an LCD in different languages (Italian, English, French, German, Spanish, Portuguese, Dutch).

Send a signal to a remote control system which is proportional to the pressure and frequency.

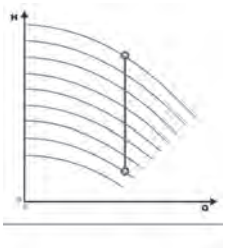
Communicate with another HYDROVAR or control system via an RS 485 interface.



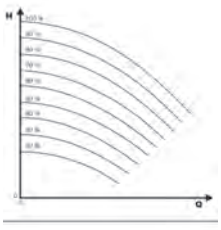
Control for constant pressure



Control to match a system curve



Control for constant flow



Control according to an external signal

1, 3, 5, 10, 15, 22SVH SERIES
Hydraulic performance table at 50 Hz, 2 POLES

PUMP TYPE	RATED POWER		Q = DELIVERY													
			l/min 0	12	20	25	30	35	40	45	50	60	73	100	120	141
			m^3/h 0	0,7	1,2	1,5	1,8	2,1	2,4	2,7	3,0	3,6	4,4	6,0	7,2	8,5
	kW	HP	H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
1SV04H	0,37	0,5	23,7	23,5	22,1	20,4	17,9	14,6	10,6							
1SV07H	0,37	0,5	40,2	39,2	36,1	32,7	28,1	22,2	15,2							
1SV11H	0,55	0,75	65,1	64,5	60,4	55,5	48,5	39,5	28,5							
1SV15H	0,75	1	90,9	90,5	85,6	79,3	70,1	58,1	43,1							
1SV22H	1,1	1,5	134,6	134,1	127,4	118,1	104,4	86,1	63,5							
1SV30H	1,5	2	181,7	181,3	172,6	160,1	141,2	115,7	83,9							
1SV37H	2,2	3	225,9	224,9	216,1	201,9	179,3	148,1	108,7							
3SV04H	0,37	0,5	28,9		27,7	27,1	26,2	25,2	23,9	22,5	20,8	16,8	10,1			
3SV06H	0,55	0,75	44,4		43,4	42,6	41,6	40,2	38,6	36,6	34,3	28,5	18,5			
3SV08H	0,75	1	60,0		59,1	58,2	57,0	55,4	53,4	51,0	48,1	40,7	27,5			
3SV12H	1,1	1,5	89,6		87,8	86,4	84,5	82,1	79,1	75,5	71,1	59,9	40,1			
3SV16H	1,5	2	119,9		117,8	116,1	113,6	110,5	106,5	101,6	95,8	80,9	54,2			
3SV21H	2,2	3	159,3		156,9	154,6	151,4	147,3	142,1	135,7	128,0	108,5	73,6			
3SV25H	2,2	3	188,5		186,1	183,3	179,3	174,1	167,6	159,7	150,3	126,6	84,8			
3SV29H	3	4	219,3		216,0	212,8	208,3	202,6	195,3	186,4	175,7	148,6	100,2			
3SV33H	3	4	248,5		245,3	241,5	236,2	229,3	220,7	210,2	197,7	166,3	111,2			
5SV05H	0,75	1	38,0						36,4	36,0	35,5	34,5	32,9	28,2	23,5	17,1
5SV08H	1,1	1,5	60,1						57,6	57,0	56,2	54,6	51,8	44,1	36,2	25,8
5SV11H	1,5	2	82,8						79,3	78,4	77,5	75,2	71,4	60,7	49,9	35,6
5SV14H	2,2	3	105,7						102,0	100,9	99,6	96,6	91,7	77,8	64,0	46,3
5SV16H	2,2	3	120,5						115,9	114,6	113,1	109,6	103,9	87,8	72,1	51,8
5SV21H	3	4	157,9						152,0	150,3	148,3	143,6	136,1	114,9	94,2	67,6
5SV28H	4	5,5	211,5						204,2	201,9	199,4	193,3	183,4	155,5	128,0	92,7
5SV33H	5,5	7,5	249,2						241,0	238,4	235,5	228,4	216,9	184,2	151,9	110,3

Performances in compliance with ISO 9906 - Annex A.

1-5svh-2p50-en_b_th

PUMP TYPE	RATED POWER		Q = DELIVERY													
			l/min 0	83,34	100	133	170	183,34	233	270	330	350	400	430	460	483,33
			m^3/h 0	5,0	6,0	8,0	10,2	11,0	14,0	16,2	19,8	21,0	24,0	25,8	27,6	29,0
	kW	HP	H = TOTAL HEAD IN METRES OF COLUMN OF WATER													
10SVH04	1,5	2	47,7	44,2	43,0	39,9	34,8	32,6	21,7							
10SVH06	2,2	3	71,8	66,8	65,0	60,4	53,1	49,8	33,9							
10SVH08	3	4	95,3	88,9	86,5	80,1	70,2	65,7	44,5							
10SVH11	4	5,5	129,6	121,3	118,1	109,6	96,3	90,3	62,1							
10SVH15	5,5	7,5	179,5	167,9	163,4	151,6	132,8	124,3	83,9							
10SVH20	7,5	10	240,6	226,0	220,3	205,0	180,2	168,9	114,3							
10SVH21	11	15	253,6	241,0	235,5	220,2	195,0	183,5	127,5							
15SVH02	2,2	3	28,7			26,7	25,9	25,5	23,9	22,4	18,9	17,4	13,1			
15SVH03	3	4	43,3			40,4	39,1	38,6	36,2	33,8	28,7	26,5	20,1			
15SVH05	4	5,5	72,7			67,8	65,8	65,0	61,0	57,1	48,7	45,2	34,9			
15SVH07	5,5	7,5	101,9			94,5	91,9	90,8	85,7	80,6	69,4	64,7	50,5			
15SVH09	7,5	10	131,9			124,4	121,0	119,6	112,8	106,1	91,5	85,5	67,4			
15SVH13	11	15	191,3			179,2	174,5	172,5	163,1	153,7	133,1	124,5	98,6			
15SVH17	15	20	251,6			237,3	231,4	228,9	216,9	205,0	178,4	167,3	133,6			
22SVH01	1,1	1,5	14,7					13,5	12,7	12,0	10,4	9,7	7,7	6,3	4,7	3,4
22SVH03	3	4	45,4					42,2	40,4	38,5	34,5	32,8	27,8	24,2	20,2	16,6
22SVH04	4	5,5	60,9					56,8	54,4	51,9	46,6	44,4	37,9	33,1	27,7	23,0
22SVH05	5,5	7,5	76,0					70,9	67,9	64,9	58,3	55,6	47,4	41,4	34,7	28,8
22SVH07	7,5	10	108,5					103,1	99,4	95,7	87,2	83,7	73,1	65,3	56,5	48,8
22SVH10	11	15	155,4					148,2	143,1	137,8	125,9	120,9	105,8	94,8	82,3	71,3
22SVH14	15	20	216,6					207,7	200,9	193,7	177,4	170,4	149,4	133,9	116,1	100,6
22SVH17	18,5	25	263,5					252,8	244,7	236,0	216,2	207,8	182,3	163,6	142,0	123,2

Performances in compliance with ISO 9906 - Annex A.

10-22svh-2p50-en_b_th

33, 46, 66, 92SVH SERIES
Hydraulic performance table at 50 Hz, 2 poles

PUMP TYPE	RATED POWER		Q = DELIVERY										
			l/min 0	250	300	367	417	500	583	667	750	900	1000
			m^3/h 0	15	18	22	25	30	35	40	45	54	60
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER										
33SVH1	3	4	23,8	21,7	21,2	20	20	17,8	15,5	12,7			
33SVH2	5,5	7,5	47,8	45	44,1	43	41	39	35	29,9			
33SVH3	7,5	10	71,5	67,4	66,0	64	62	58	52,0	44,6			
33SVH4	11	15	95,9	91,1	90	87	85	80	73	63,1			
33SVH5	15	20	120,4	114,9	113	110	107	101	92	80,5			
33SVH6	15	20	145,6	139	137	133	129	121	110	96,1			
33SVH7	18,5	25	170,3	162,8	160	156	152	142	130	113,3			
46SVH1	4	5,5	27,2			24	23,5	22,5	21,4	19,9	18,2	14,3	10,8
46SVH2	7,5	10	52,6			48,5	47,7	46,1	44,2	41,7	38,7	31,4	25,1
46SVH3	11	15	80,8			74,3	73	71	68	65	60	50	40,7
46SVH4	15	20	107,3			99,8	98	96	92	87	82	68	55,9
46SVH6	22	30	161			149,9	148	144	139	132	124	104	86

Performances in compliance with ISO 9906 - Annex A.

33-46svh-2p50-en_a_th

PUMP TYPE	RATED POWER		Q = DELIVERY												
			l/min 0	500	600	700	750	900	1000	1200	1300	1417	1600	1800	2000
			m^3/h 0	30	36	42	45	54	60	72	78	85	96	108	120
	kW	HP	H = TOTAL HEAD METRES COLUMN OF WATER												
66SVH1	5,5	7,5	29,2	25,8	24,8	23,8	23,3	21,8	20,7	17,9	16,1	13,5			
66SVH2	11	15	60,4	55,7	54,4	52,8	52	49,3	47,1	42	38,9	34,7			
66SVH3	18,5	25	91,4	84,7	83	81	79	75	72	64	60	53,5			
66SVH4	22	30	121,6	112,5	110	107	105	100	96	86	79	70,8			
92SVH1	7,5	10	33,5				28,7	27,2	26,2	24,3	23,3	22,2	20,2	17,6	14,3
92SVH2	15	20	67,8				58,2	55	53	49,5	47,6	45,2	41,4	36,3	29,6
92SVH3	22	30	102,2				88,2	84	81	76	73	69	63	56	46,3

Performances in compliance with ISO 9906 - Annex A.

66-92svh-2p50-en_a_th

Control Panels 7

Single-phase electric panels for submersible pumps
QSM - QPC - QPCS - QSC - QSCS 518

Electric panels for surface or submergible pumps
QM - QTD - Q3A - Q3D - Q3Y - Q3I - Q3SF 528

Electric panels for drainage pumps
QDR - QDR2 - QDRM - QDRMC - QDRM2 - QDRMC2 - QGMC -
QYR - QYR2 - QXR20 542

Auxiliary electric panels and accessories
QCL5 - QCL10 - QCLP10 - KSL - DPF - VR - SCA3 562

QSM Series

Single-phase electric panels for the protection and control of a 4" single-phase borehole pump.

Specifications

Main switch for manual control
Supply voltage: 1 x 220-240 V ±5%
Frequency: 50 Hz
Power: 0.25 to 1.1 kW
Direct motor starting
Protection: IP43
Ambient temperature:
-5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity:
50% at +40 °C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Plastic enclosure
Built-in capacitor
Thermal protection inside panel

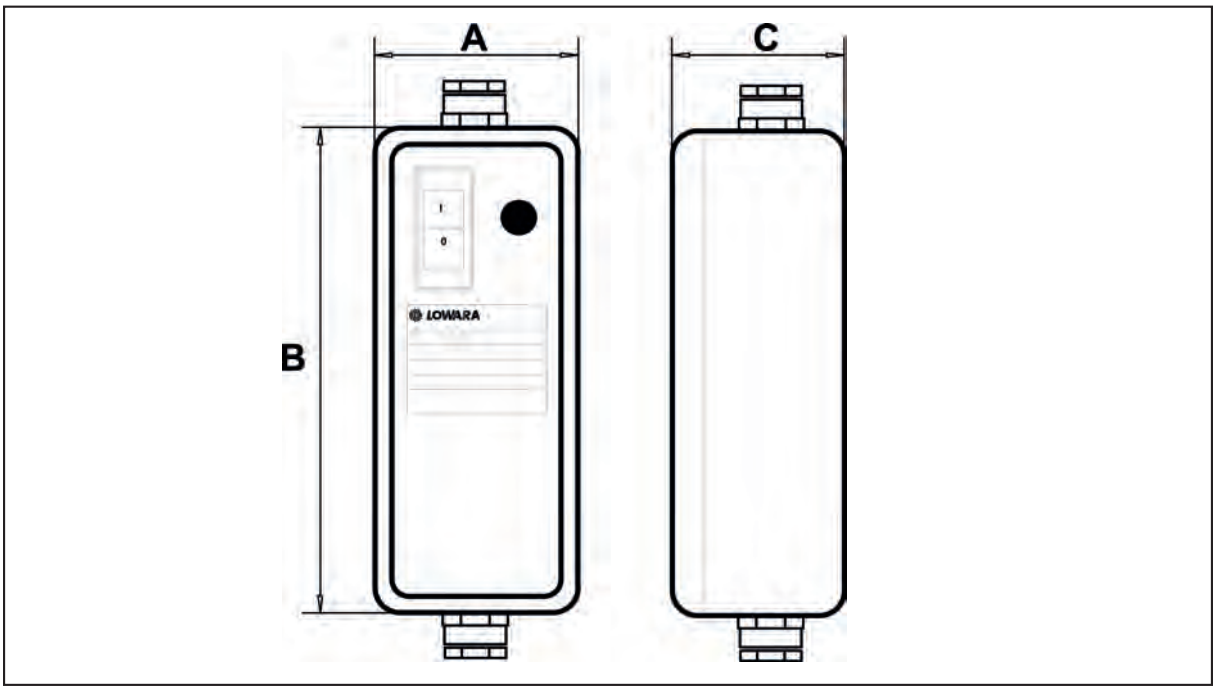
Special versions available on request

QSM PF version with overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	CAPACITOR 450V	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	uF	mm	mm	mm	Kg
QSM 02	220-240	0,25	0,33	2,6	12,5	80	210	65	0,45
QSM 03	220-240	0,37	0,5	3,4	16	80	210	65	0,45
QSM 05	220-240	0,55	0,75	4,8	20	80	210	65	0,45
QSM 07	220-240	0,75	1	6,5	30	80	210	65	0,45
QSM 11	220-240	1,1	1,5	8,3	40	80	210	65	0,45

CB-QSM-en_c_te

QPC Series

Single-phase electric panels for the protection and control of a 4" single-phase borehole pump.

Specifications

Main switch for manual control
Supply voltage: 1 x 230 V ±10%
Frequency: 50 Hz
Power: 0.25 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C
(limit specified by EN standard 60439-1)
Maximum relative humidity: 50%
at +40 °C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall-mounted using supplied brackets
Plastic enclosure
Built-in capacitor
Main switch with thermal protector (manual reset) and power ON indicator light

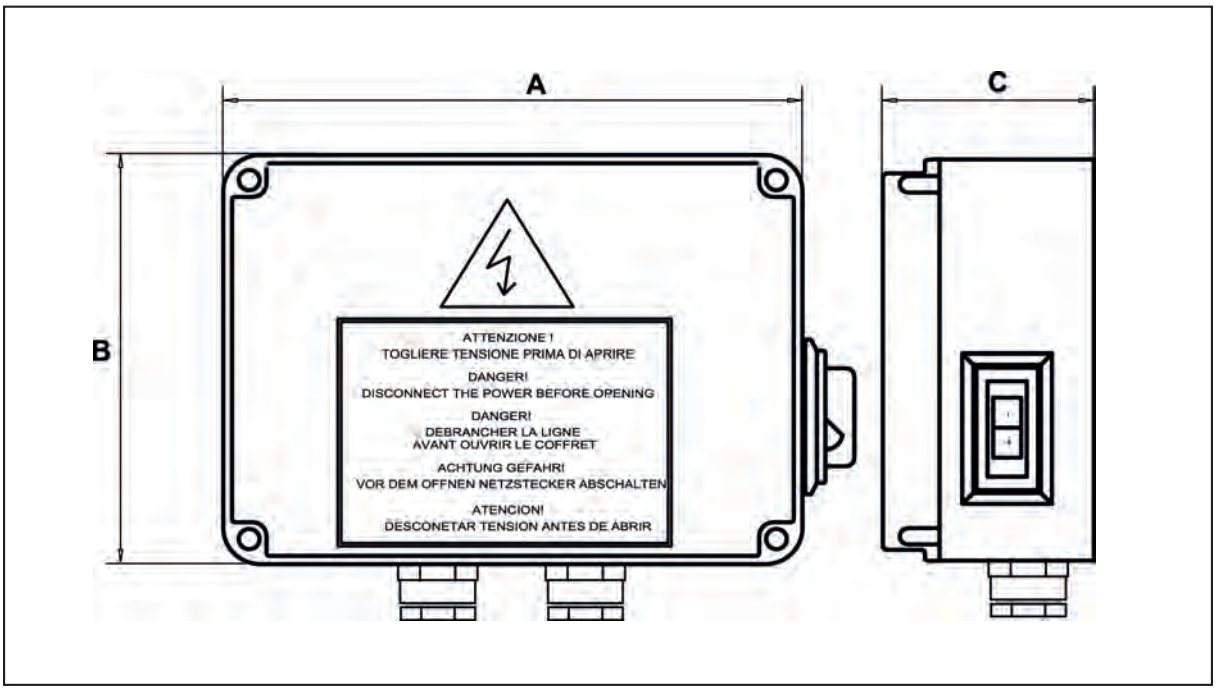
Optional accessories

DPF single-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	DIMENSIONS B	DIMENSIONS C	WEIGHT	CAPACITOR
	V	kW	HP	A	mm	mm	mm	Kg	µF/450V
QPC/02	1 x 230 V ± 10 %	0,25	0,33	3	170	170	75	1,1	12,5
QPC/03	1 x 230 V ± 10 %	0,37	0,5	4	170	170	75	1,1	16
QPC/05	1 x 230 V ± 10 %	0,55	0,75	5	170	170	75	1,1	20
QPC/07	1 x 230 V ± 10 %	0,75	1	6	170	170	75	1,1	30
QPC/11	1 x 230 V ± 10 %	1,1	1,5	9	170	170	75	1,1	40
QPC/15	1 x 230 V ± 10 %	1,5	2	11	170	170	75	1,1	50
QPC/22	1 x 230 V ± 10 %	2,2	3	16	170	170	127	1,2	70

CB-QPC_a_te

QPCS Series

Single-phase electric panels for the protection and control of a 4" single-phase borehole pump.

Specifications

Automatic control through an external contactor
Supply voltage: 1 x 230 V ±10%
Frequency: 50 Hz
Power: 0.25 to 2.2 kW
Low voltage auxiliary circuit 12 Vac
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40 °C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall-mounted using supplied brackets
Plastic enclosure with see-through cover
Built-in capacitor
Main switch with thermal protector (manual reset) and power ON indicator light
Power, pump running and dry running level indicator lights
Overvoltage protection
Dry running control through probes, float switch or minimum pressure switch

Optional accessories

Kit n° 3 electrodes (probes) without cable

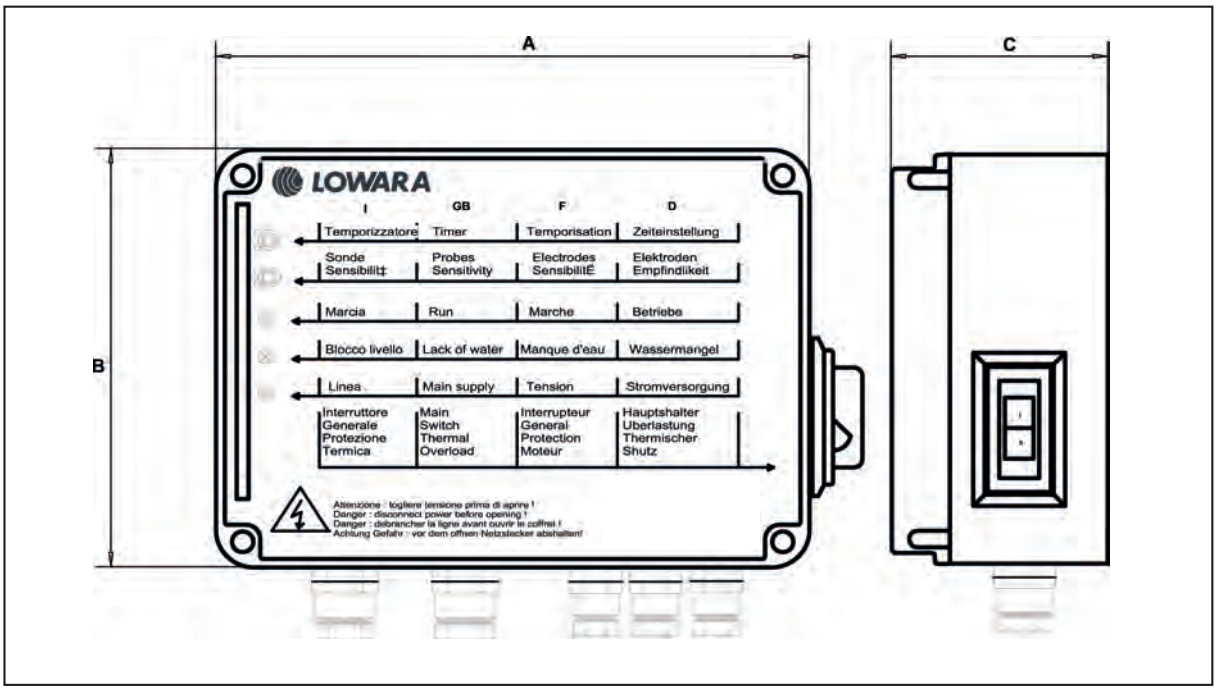
Float switch

Pressure switch



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT	CAPACITOR
	V	kW	HP	A	A mm	B mm	C mm	Kg	µF/450V
QPCS/02	1 x 230 V ± 10 %	0,25	0,33	3	200	150	80	1,3	12,5
QPCS/03	1 x 230 V ± 10 %	0,37	0,5	4	200	150	80	1,3	16
QPCS/05	1 x 230 V ± 10 %	0,55	0,75	5	200	150	80	1,3	20
QPCS/07	1 x 230 V ± 10 %	0,75	1	6	200	150	80	1,3	30
QPCS/11	1 x 230 V ± 10 %	1,1	1,5	9	200	150	80	1,3	40
QPCS/15	1 x 230 V ± 10 %	1,5	2	11	200	150	80	1,3	50
QPCS/22	1 x 230 V ± 10 %	2,2	3	16	200	150	80	1,3	70

CB-QPCS_a_te

QSC Series

Protection and control of a single-phase submersible electric pump for 4" wells.

Specifications

Main switch for manual control.
Supply voltage: 1 x 230 V ±10%.
Frequency: 50 Hz.
Power: 0,25 to 4 kW.
Direct motor start.
Protection class: IP55.
Ambient temperature: -5 to +40 °C (according to EN 60439-1).
Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 60439-1).
Wall mounted.
Plastic enclosure.
Incorporated capacitor.
Main switch with manual-reset thermal protection.

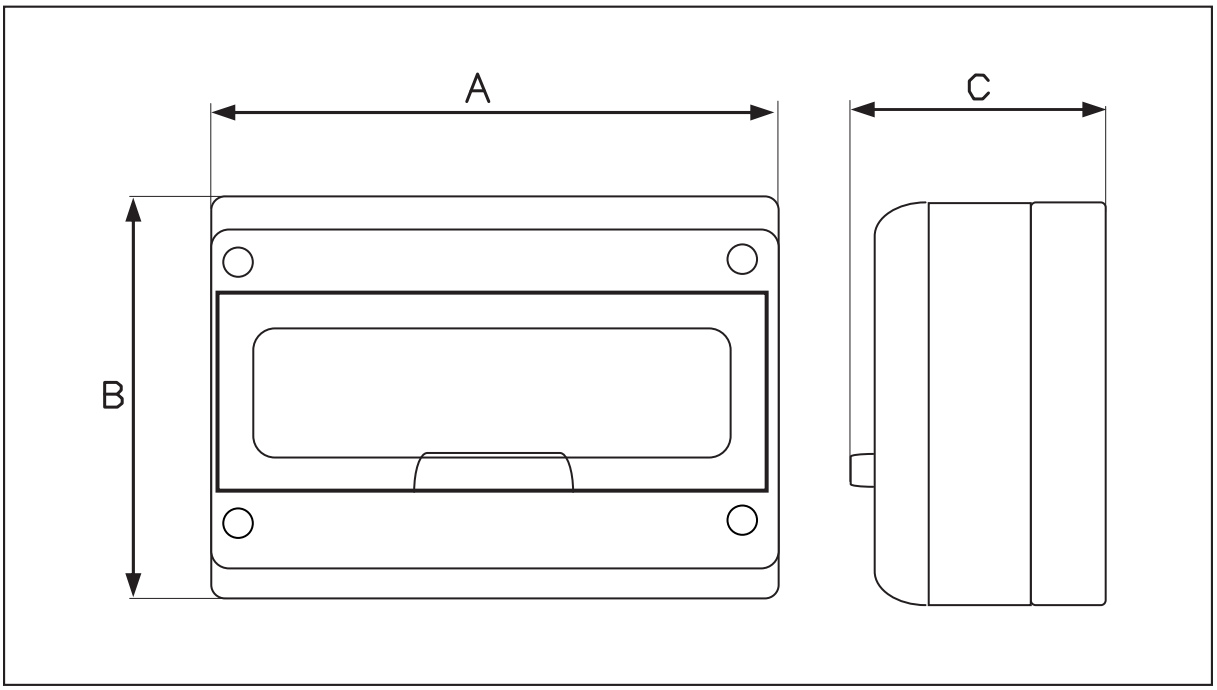
Optional accessories

DPF single-phase module for overvoltage protection (lightning protector).



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT			DIMENSIONS A	B	C	WEIGHT	CAPACITOR
	V	kW	HP	A			mm	mm	mm	Kg	μF/450V
QSC/02	1 x 230 V ± 10 %	0,25	0,33	2,5	÷	4	205	220	160	1,7	12,5
QSC/03	1 x 230 V ± 10 %	0,37	0,5	4	÷	6,3	205	220	160	1,7	16
QSC/05	1 x 230 V ± 10 %	0,55	0,75	4	÷	6,3	205	220	160	1,7	20
QSC/07	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	205	220	160	1,7	30
QSC/11	1 x 230 V ± 10 %	1,1	1,5	6,3	÷	10	205	220	160	1,7	40
QSC/15	1 x 230 V ± 10 %	1,5	2	10	÷	16	205	220	160	1,7	50
QSC/22	1 x 230 V ± 10 %	2,2	3	16	÷	20	205	220	160	2,7	70
QSC/40	1 x 230 V ± 10 %	4	5,5	25	÷	32	280	220	160	3	90

CB-QSC-en_d_te

QSCS Series

Protection and control of a single-phase submersible electric pump for 4" wells.

Specifications

Automatic control through an external enable contact
Supply voltage: 1 x 230 V ±10%
Frequency: 50 Hz
Power: 0,25 to 2,2 kW
Direct motor start
Protection class: IP55
Ambient temperature: -5 to +40 °C (according to EN 60439-1)
Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 60439-1)
Wall mounted
Plastic enclosure
Incorporated capacitor
Main switch with manual-reset thermal protection
Dry running control with float or minimum pressure switch (available separately)

Optional accessories

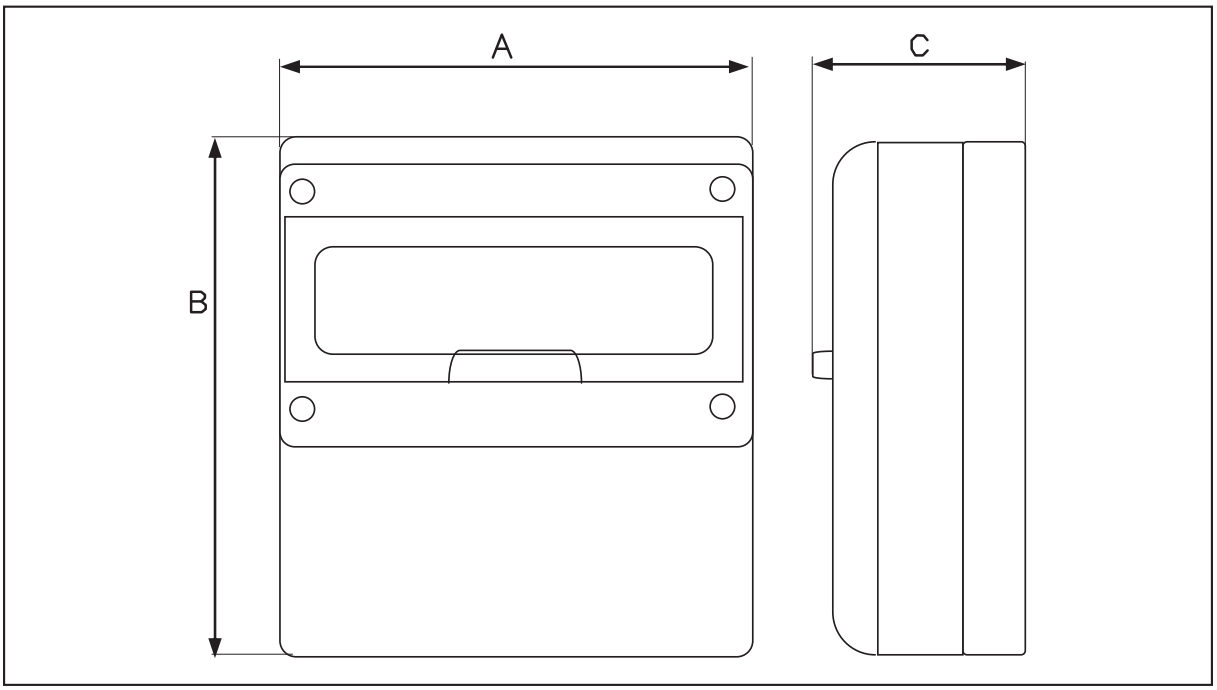
DPF single-phase module for overvoltage protection (lightning protector)

KSL series 24 V level kit
Probe module for protection against dry running (set of three electrodes included in the supply)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT	CAPACITOR
	V	kW	HP	A	mm	mm	mm	Kg	µF/450V
QSCS/02	1 x 230 V ± 10 %	0,25	0,33	2,5 ÷ 4	280	370	160	3,7	12,5
QSCS/03	1 x 230 V ± 10 %	0,37	0,5	4 ÷ 6,3	280	370	160	3,7	16
QSCS/05	1 x 230 V ± 10 %	0,55	0,75	4 ÷ 6,3	280	370	160	3,7	20
QSCS/07	1 x 230 V ± 10 %	0,75	1	4 ÷ 6,3	280	370	160	3,7	30
QSCS/11	1 x 230 V ± 10 %	1,1	1,5	6,3 ÷ 10	280	370	160	3,7	40
QSCS/15	1 x 230 V ± 10 %	1,5	2	10 ÷ 16	280	370	160	3,7	50
QSCS/22	1 x 230 V ± 10 %	2,2	3	16 ÷ 20	280	370	160	3,7	70

CB-QSCS-en_b_te

QM Series

Single-phase electric panels for the protection and control of a 4" single-phase surface pump.

Specifications

Control through an external contactor
Supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0.25 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Ready for installation of dry-running control with float or pressure switch (available separately)
Power and thermal overload indicator lights

Optional accessories

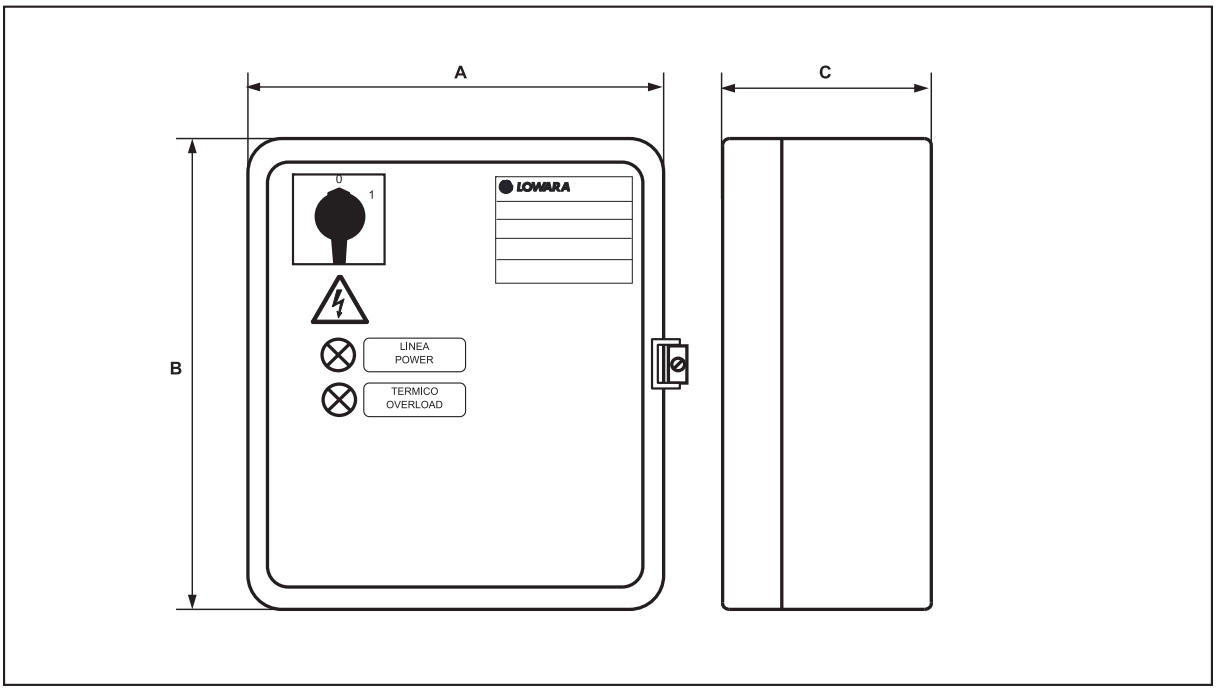
VR1 single-phase varistor module for overvoltage protection (lightning protector)

SLD series 24V level kit. Probe module for protection against dry running (set of three electrodes included in the supply)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
QM/02	1 x 230 V ± 10 %	0,25	0,33	1 ÷ 1,6	235	265	150	5,8
QM/03	1 x 230 V ± 10 %	0,37	0,5	1,6 ÷ 2,5	235	265	150	5,8
QM/05	1 x 230 V ± 10 %	0,55	0,75	2,5 ÷ 4	235	265	150	5,8
QM/07	1 x 230 V ± 10 %	0,75	1	4 ÷ 6,3	235	265	150	5,8
QM/15	1 x 230 V ± 10 %	1,5	2	6,3 ÷ 10	235	265	150	5,8
QM/22	1 x 230 V ± 10 %	2,2	3	10 ÷ 16	235	265	150	5,8

CB-QM_b_te

QTD Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Power: 0.25 to 9.2 kW
Direct motor starting
Overload protection
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Ready for installation of dry-running control with float or pressure switch (available separately)
Power and thermal overload indicator lights

Optional accessories

VR3 three-phase module for overvoltage protection (lightning protector)

SLD series 24V level kit. Probe module for protection against dry running (set of three electrodes included in the supply)

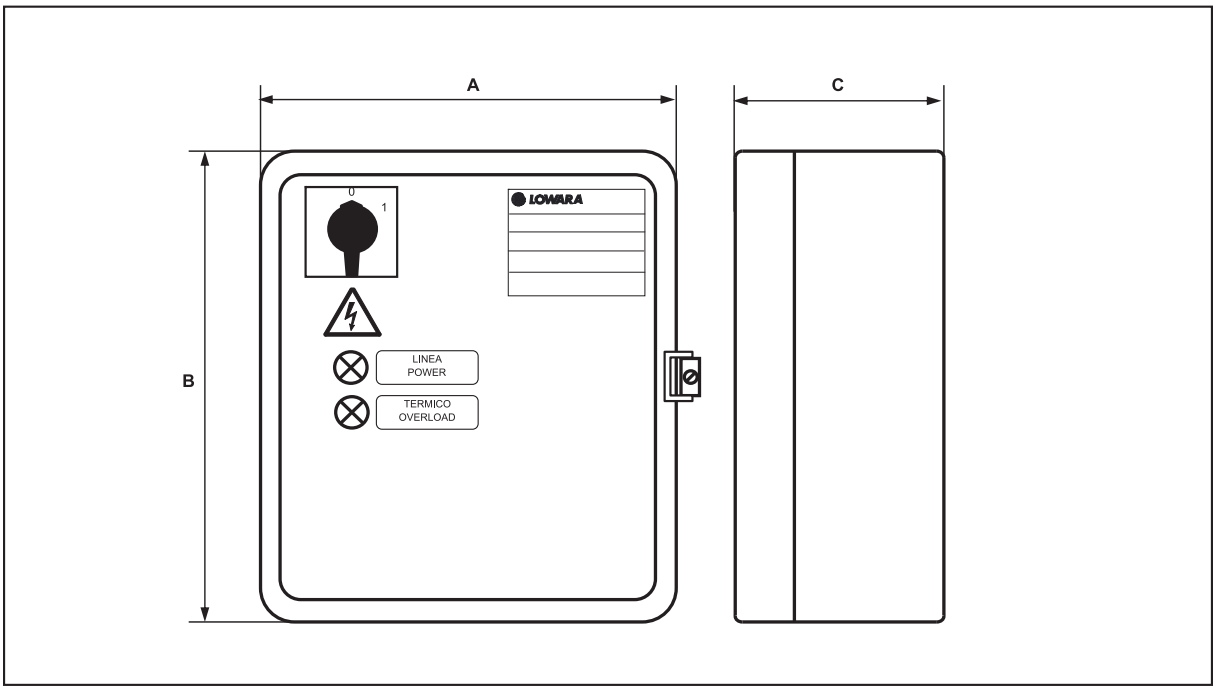
Selection

For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
					A	B	C	
	V	kW	HP	A	mm	mm	mm	Kg
QTD/02-03	3 x 400 V ± 10 %	0,25-0,37	0,33-0,50	0,63 ÷ 1	235	265	150	5,8
QTD/03-05	3 x 400 V ± 10 %	0,37-0,55	0,55-0,75	1 ÷ 1,6	235	265	150	5,8
QTD/05-07	3 x 400 V ± 10 %	0,55-0,75	0,75-1	1,6 ÷ 2,5	235	265	150	5,8
QTD/07-15	3 x 400 V ± 10 %	0,75-1,5	1-2	2,5 ÷ 4	235	265	150	5,8
QTD/15-22	3 x 400 V ±10 %	1,5-2,2	2-3	4 ÷ 6,3	235	265	150	5,8
QTD/22-40	3 x 400 V ± 10 %	2,2-4	3-5,5	6,3 ÷ 10	235	265	150	5,8
QTD/40-75	3 x 400 V ± 10 %	4-7,5	5,5-10	10 ÷ 16	235	265	150	5,8
QTD/75-92	3 x 400 V ± 10 %	7,5-9,2	10-12,5	16 ÷ 20	235	265	150	5,8

CB-QTD_c_te

Q3A Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Manual control through A-0-M switch
Automatic control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Low voltage auxiliary circuit 24 Vac
Power: 4 to 315 kW
Autotransformer starting
Overload protection
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40 °C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power - pump running - thermal overload - dry running indicator lights
Ready for installation of dry-running control with float or pressure switch (available separately)
Electronic protection module with electrodes can be fitted

Optional accessories

SLD series 24V level kit: Probe module for protection against dry running (set of three electrodes included in the supply)

Float switch

Pressure switch

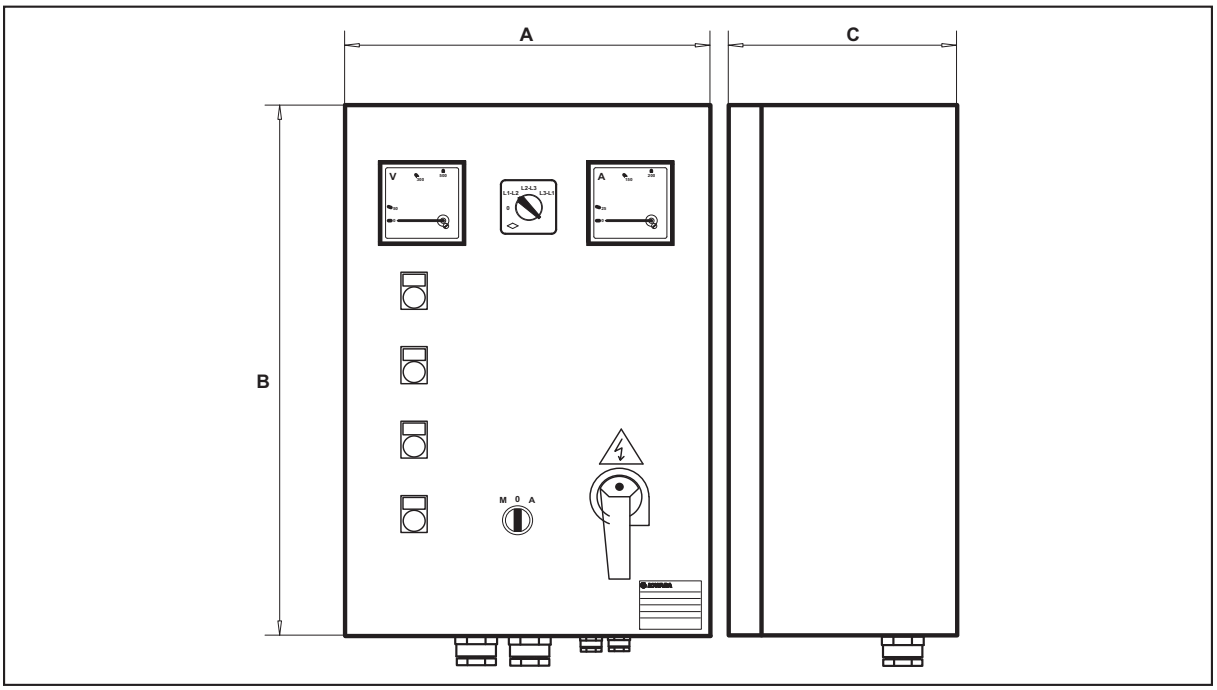
VR3/SCA3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

Q3A SERIES



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
					A	B	C	
	V	kW	HP	A	mm	mm	mm	Kg
Q3A/40-75	3 x 400 V ± 10 %	4-7,5	5,5-10	10 ÷ 16	500	700	250	50
Q3A/75-92	3 x 400 V ± 10 %	7,5-9,2	10-12,5	16 ÷ 20	500	700	250	50
Q3A/92-110	3 x 400 V ± 10 %	9,2-11	12,5-15	20 ÷ 25	500	700	250	50
Q3A/110-150	3 x 400 V ± 10 %	11-15	15-20	22 ÷ 32	500	700	250	50
Q3A/150-185	3 x 400 V ± 10 %	15-18,5	20-25	28 ÷ 40	500	700	250	50
Q3A/185-220	3 x 400 V ± 10 %	18,5-22	25-30	36 ÷ 50	500	700	250	50
Q3A/220-300	3 x 400 V ± 10 %	22-30	30-40	45 ÷ 63	600	900	300	80
Q3A/300-370	3 x 400 V ± 10 %	30-37	40-50	57 ÷ 75	600	900	300	80
Q3A/370-450	3 x 400 V ± 10 %	37-45	50-60	70 ÷ 90	600p	1300p	300p	90
Q3A/450-550	3 x 400 V ± 10 %	45-55	60-75	80 ÷ 108	600p	1500p	300p	120
Q3A/550-750	3 x 400 V ± 10 %	55-75	75-100	105 ÷ 138	600p	1500p	300p	120
Q3A/750-900	3 x 400 V ± 10 %	75-90	100-125	138 ÷ 185	600p	1700p	400p	150
Q3A/900-1100	3 x 400 V ± 10 %	90-110	125-150	175 ÷ 210	800p	1900p	400p	150
Q3A/1100-1320	3 x 400 V ± 10 %	110-132	150-180	210 ÷ 260	800p	1900p	400p	200
Q3A/1320-1600	3 x 400 V ± 10 %	132-160	180-218	250 ÷ 305	800p	1900p	400p	200
Q3A/1600-2000	3 x 400 V ± 10 %	160-200	218-273	290 ÷ 400	800p	1900p	400p	230
Q3A/2000-2500	3 x 400 V ± 10 %	200-250	273-340	400 ÷ 460	1000p	1900p	400p	230
Q3A/2500-3150	3 x 400 V ± 10 %	250-315	340-430	450 ÷ 580	1000p	1900p	400p	250

Dimensions note : P indicates floor mounted control panel.

CB-Q3A-en_c_te

Q3D Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Manual control through A-0-M switch
Automatic control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Low voltage auxiliary circuit 24 Vac
Power: 0.25 to 37 kW
Direct starting
Overload protection
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power - pump running - thermal overload - dry running indicator lights
Ready for installation of dry-running control with float or pressure switch (available separately)
Electronic protection module with electrodes can be fitted

Optional accessories

SLD series 24V level kit: Probe module for protection against dry running (set of three electrodes included in the supply)

Float switch

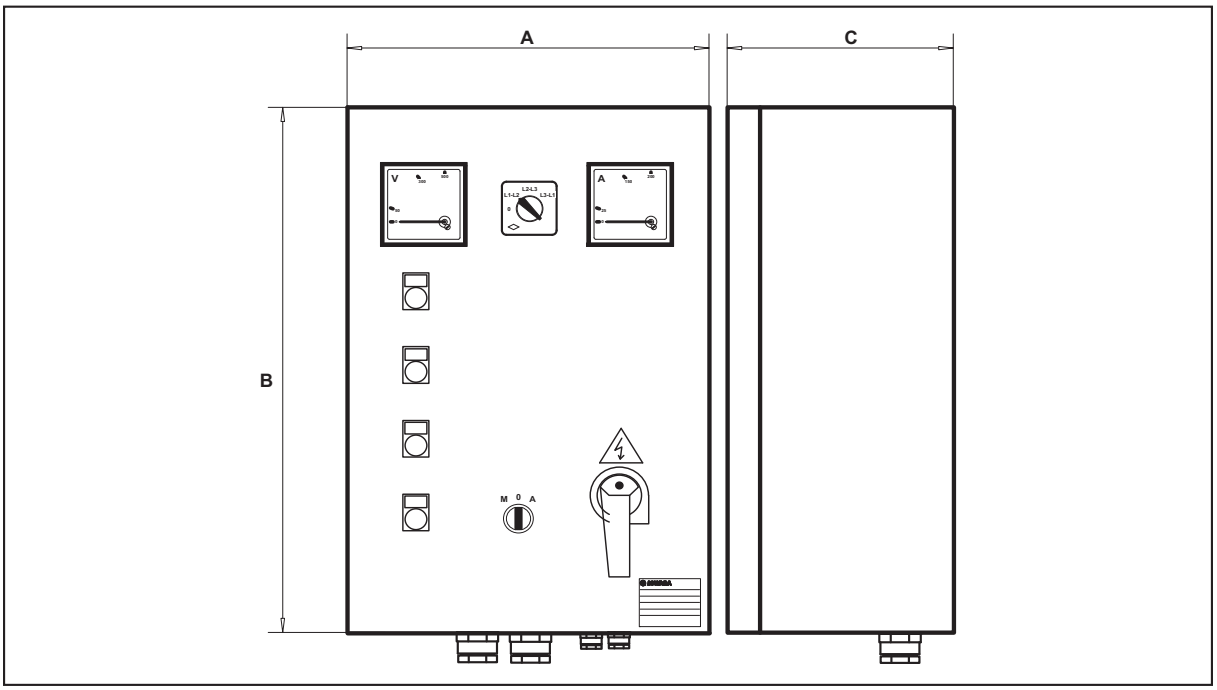
Pressure switch

VR3/SCA3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
	V	kW	HP	A	A mm	B mm	C mm	Kg
Q3D/02-03	3 x 400 V ± 10 %	0,25-0,37	0,33-0,50	0,63 ÷ 1	300	400	200	15
Q3D/03-05	3 x 400 V ± 10 %	0,37-0,55	0,5-0,75	1 ÷ 1,6	300	400	200	15
Q3D/05-07	3 x 400 V ± 10 %	0,55-0,75	0,75-1	1,6 ÷ 2,5	300	400	200	15
Q3D/07-15	3 x 400 V ± 10 %	0,75-1,5	1-2	2,5 ÷ 4	300	400	200	15
Q3D/15-22	3 x 400 V ± 10 %	1,5-2,2	2-3	4 ÷ 6,3	300	400	200	15
Q3D/22-40	3 x 400 V ± 10 %	2,2-4	3-5,5	6,3 ÷ 10	300	400	200	15
Q3D/40-75	3 x 400 V ± 10 %	4-7,5	5,5-10	10 ÷ 16	300	400	200	15
Q3D/75-92	3 x 400 V ± 10 %	7,5-9,2	10-12,5	16 ÷ 20	300	400	200	15
Q3D/92-110	3 x 400 V ± 10 %	9,2-11	12,5-15	20 ÷ 25	300	400	200	20
Q3D/110-150	3 x 400 V ± 10 %	11-15	15-20	22 ÷ 32	400	500	200	20
Q3D/150-185	3 x 400 V ± 10 %	15-18,5	20-25	28 ÷ 40	400	500	200	20
Q3D/185-220	3 x 400 V ± 10 %	18,5-22	25-30	36 ÷ 50	400	600	200	27
Q3D/220-300	3 x 400 V ± 10 %	22-30	30-40	45 ÷ 63	400	600	200	27
Q3D/300-370	3 x 400 V ± 10 %	30-37	40-50	57 ÷ 75	400	600	200	27

CB-Q3D_a_te

Q3Y Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Manual control through A-0-M switch
Automatic control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Low voltage auxiliary circuit 24 Vac
Power: 4 to 315 kW
Star-delta starting
Overload protection
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power - pump running - thermal overload - dry running indicator lights
Ready for installation of dry-running control with float or pressure switch (available separately).
Electronic protection module with electrodes can be fitted

Optional accessories

SLD series 24V level kit: Probe module for protection against dry running (set of three electrodes included in the supply)

Float switch

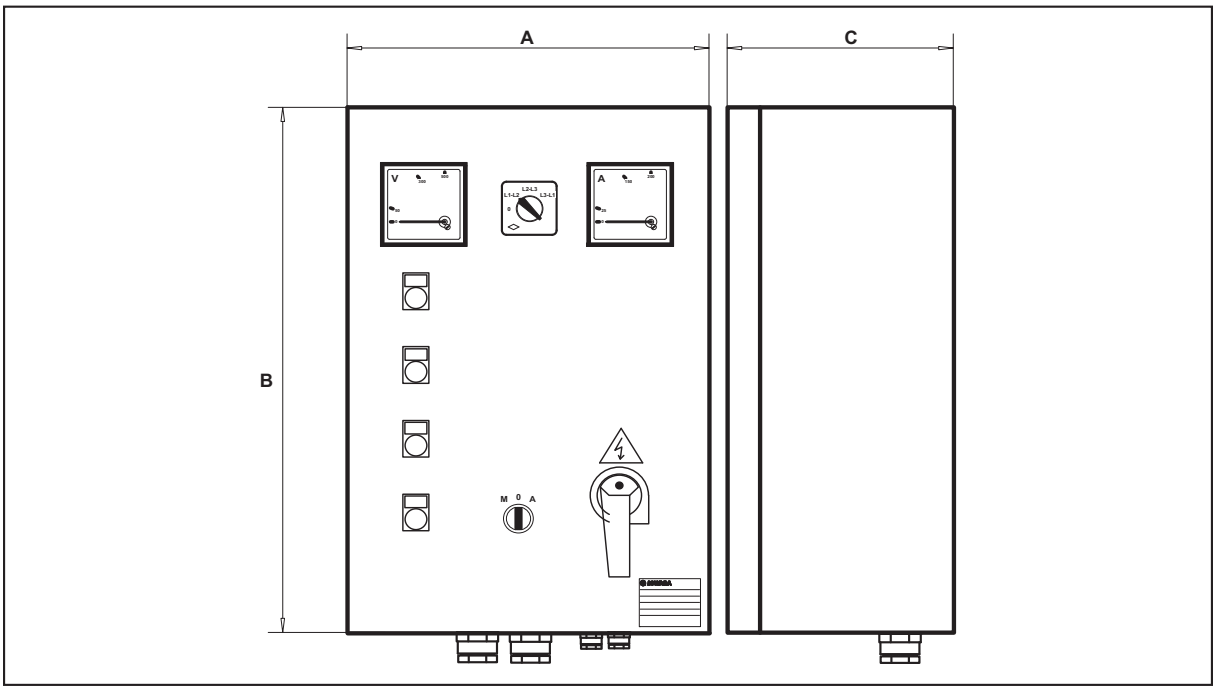
Pressure switch

VR3/SCA3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
					A	B	C	
	V	kW	HP	A	mm	mm	mm	Kg
Q3Y/40-75	3 x 400 V ± 10 %	4-7,5	5,5-10	10 ÷ 16	400	600	200	23
Q3Y/75-92	3 x 400 V ± 10 %	7,5-9,2	10-12,5	16 ÷ 20	400	600	200	23
Q3Y/92-110	3 x 400 V ± 10 %	9,2-11	12,5-15	20 ÷ 25	400	600	200	23
Q3Y/110-150	3 x 400 V ± 10 %	11-15	15-20	22 ÷ 32	400	600	200	23
Q3Y/150-185	3 x 400 V ± 10 %	15-18,5	20-25	28 ÷ 40	400	600	200	23
Q3Y/185-220	3 x 400 V ± 10 %	18,5-22	25-30	36 ÷ 50	500	700	200	32
Q3Y/220-300	3 x 400 V ± 10 %	22-30	30-40	45 ÷ 63	500	700	200	32
Q3Y/300-370	3 x 400 V ± 10 %	30-37	40-50	57 ÷ 75	600	800	250	68
Q3Y/370-450	3 x 400 V ± 10 %	37-45	50-60	70 ÷ 90	600	800	250	80
Q3Y/450-550	3 x 400 V ± 10 %	45-55	60-75	80 ÷ 108	600	900	250	80
Q3Y/550-750	3 x 400 V ± 10 %	55-75	75-100	105 ÷ 138	600p	1300p	300p	109
Q3Y/750-900	3 x 400 V ± 10 %	75-90	100-125	138 ÷ 185	600p	1300p	300p	109
Q3Y/900-1100	3 x 400 V ± 10 %	90-110	125-150	175 ÷ 210	600p	1500p	300p	120
Q3Y/1100-1320	3 x 400 V ± 10 %	110-132	150-180	210 ÷ 260	800p	1700p	400p	130
Q3Y/1320-1600	3 x 400 V ± 10 %	132-160	180-218	250 ÷ 305	800p	1700p	400p	130
Q3Y/1600-2000	3 x 400 V ± 10 %	160-200	218-273	290 ÷ 400	800p	1900p	400p	140
Q3Y/2000-2500	3 x 400 V ± 10 %	200-250	273-340	400 ÷ 460	1000p	1900p	400p	180
Q3Y/2500-3150	3 x 400 V ± 10 %	250-315	340-430	450 ÷ 580	1000p	1900p	400p	180

Dimensions note : P indicates floor mounted control panel.

CB-Q3Y-en_c_te

Q3I Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Manual control through A-0-M switch
Automatic control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Low voltage auxiliary circuit 24 Vac
Power: 4 to 315 kW
Impedance starting
Overload protection
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power - pump running - thermal overload - dry running indicator lights
Ready for installation of dry-running control with float or pressure switch (available separately)
Electronic protection module with electrodes can be fitted

Optional accessories

SLD series 24V level kit: Probe module for protection against dry running (set of three electrodes included in the supply)

Float switch

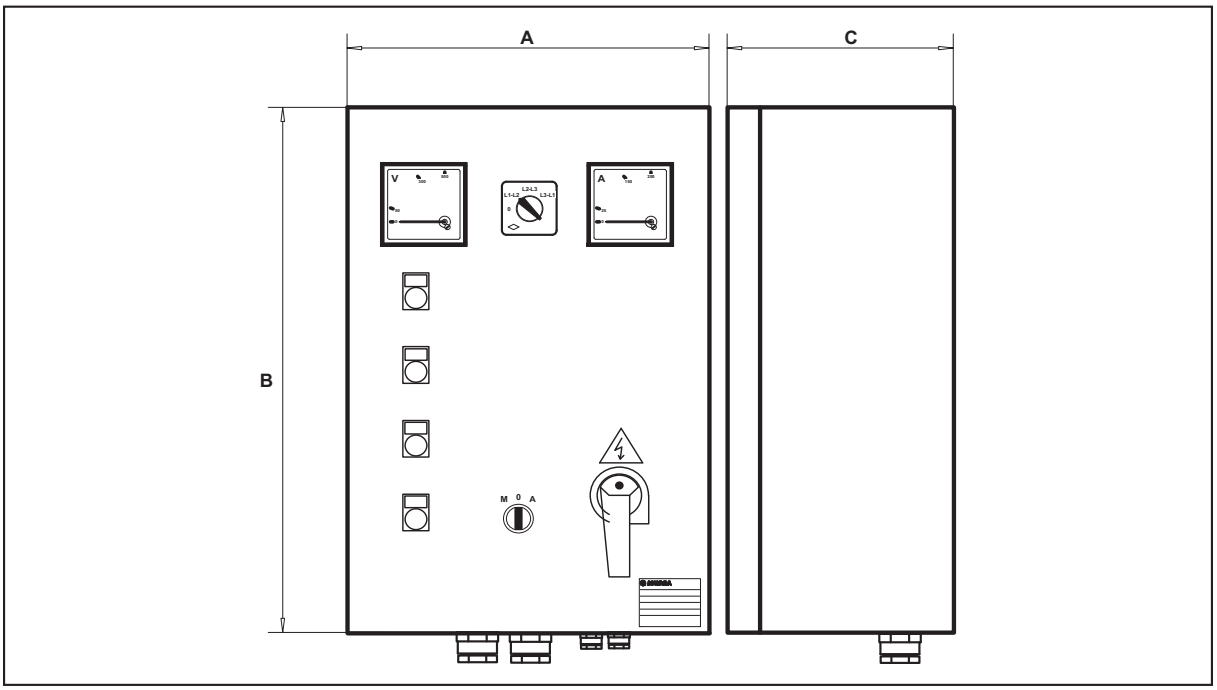
Pressure switch

VR3/SCA3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
Q3I/40-75	3 x 400 V ± 10 %	4-7,5	5,5-10	10 ÷ 16	400	600	250	35
Q3I/75-92	3 x 400 V ± 10 %	7,5-9,2	10-12,5	16 ÷ 20	400	600	250	35
Q3I/92-110	3 x 400 V ± 10 %	9,2-11	12,5-15	20 ÷ 25	400	600	250	35
Q3I/110-150	3 x 400 V ± 10 %	11-15	15-20	22 ÷ 32	500	700	250	50
Q3I/150-185	3 x 400 V ± 10 %	15-18,5	20-25	28 ÷ 40	500	700	250	50
Q3I/185-220	3 x 400 V ± 10 %	18,5-22	25-30	36 ÷ 50	500	700	250	50
Q3I/220-300	3 x 400 V ± 10 %	22-30	30-40	45 ÷ 63	500	700	250	65
Q3I/300-370	3 x 400 V ± 10 %	30-37	40-50	57 ÷ 75	500	700	250	65
Q3I/370-450	3 x 400 V ± 10 %	37-45	50-60	70 ÷ 90	600	900	250	65
Q3I/450-550	3 x 400 V ± 10 %	45-55	60-75	80 ÷ 108	600p	1300p	300p	100
Q3I/550-750	3 x 400 V ± 10 %	55-75	75-100	105 ÷ 138	600p	1300p	300p	100
Q3I/750-900	3 x 400 V ± 10 %	75-90	100-125	138 ÷ 185	600p	1500p	300p	100
Q3I/900-1100	3 x 400 V ± 10 %	90-110	125-150	175 ÷ 210	800p	1700p	400p	100
Q3I/1100-1320	3 x 400 V ± 10 %	110-132	150-180	210 ÷ 260	800p	1700p	400p	150
Q3I/1320-1600	3 x 400 V ± 10 %	132-160	180-218	250 ÷ 305	800p	1700p	400p	150
Q3I/1600-2000	3 x 400 V ± 10 %	160-200	218-273	290 ÷ 400	800p	1900p	400p	160
Q3I/2000-2500	3 x 400 V ± 10 %	200-250	273-340	400 ÷ 460	1000p	1900p	400p	180
Q3I/2500-3150	3 x 400 V ± 10 %	250-315	340-430	450 ÷ 580	1000p	1900p	400p	200

Dimensions note : P indicates floor mounted control panel.

CB-Q3I-en_c_te

Q3SF Series

Three-phase electric panels for the protection and control of a 4" three-phase surface or submersible pump.

Specifications

Manual control through A-0-M switch
Automatic control through an external contactor
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Low voltage auxiliary circuit 24 Vac
Power: 5.5 to 110 kW
Soft start with torque control
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40 °C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Dry running indicator light
Power-running-failure indicator LEDs on starter keypanel
0-1 selector switch for activation of bypass contactor
Ready for installation of dry-running control with float or pressure switch (available separately)
Electronic protection module with electrodes can be fitted
Static starter for gradual starting and stopping featuring keypanel with liquid crystal display

Optional accessories

SLD series 24V level kit: Probe module for protection against dry running (set of three electrodes included in the supply)

Float switch

Pressure switch

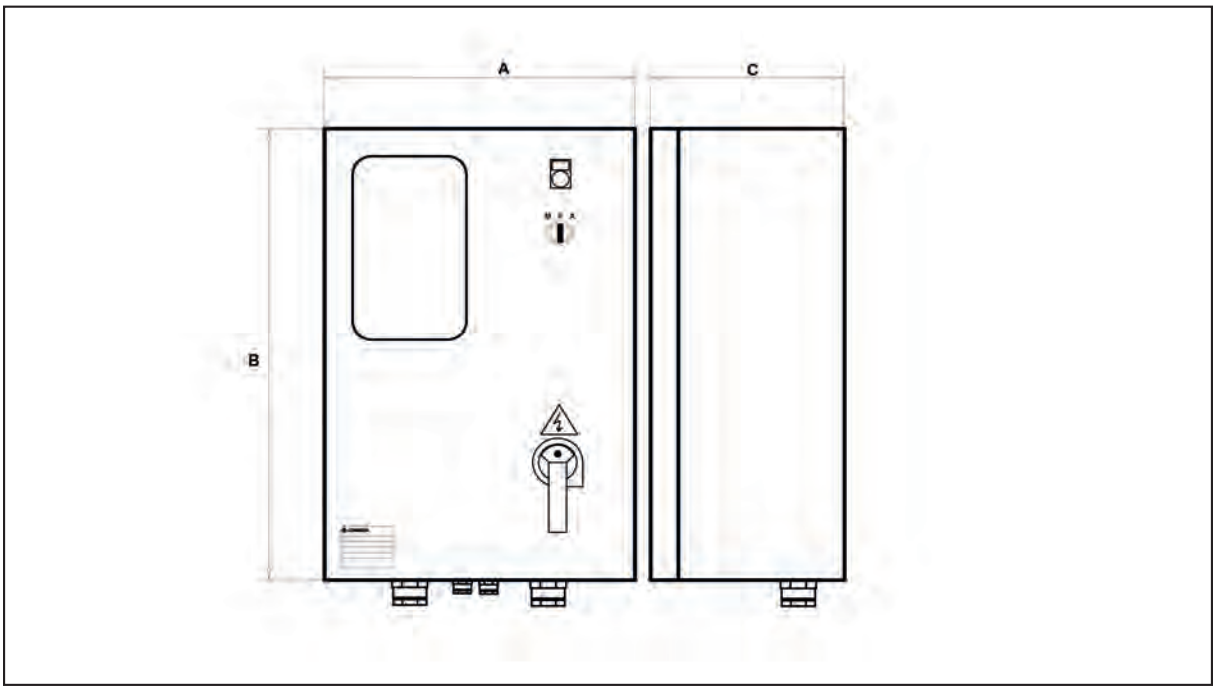
VR3/SCA3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

Q3SF SERIES



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
	V	kW	HP	A	A mm	B mm	C mm	Kg
Q3SF 75	3 x 400 V ± 10 %	5,5 - 7,5	7,5 -10	8,5 ÷ 17	400	600	250	35
Q3SF 150	3 x 400 V ± 10 %	9,2 - 15	12,5 - 20	15 ÷ 30	500	700	250	40
Q3SF 220	3 x 400 V ± 10 %	18,5 - 22	25 - 30	28 ÷ 45	500	700	250	40
Q3SF 300	3 x 400 V ± 10 %	30	40	42 ÷ 60	600	900	300	90
Q3SF 370	3 x 400 V ± 10 %	37	50	55 ÷ 75	600	900	300	90
Q3SF 450	3 x 400 V ± 10 %	45	60	70 ÷ 85	600	900	300	90
Q3SF 550	3 x 400 V ± 10 %	55	75	80 ÷ 110	600	900	300	90
Q3SF 590	3 x 400 V ± 10 %	59	80	105 ÷ 125	600	900	300	90
Q3SF 750	3 x 400 V ± 10 %	75	100	120 ÷ 142	600p	1700p	400p	120
Q3SF 900	3 x 400 V ± 10 %	90	125	135 ÷ 190	600p	1700p	400p	120
Q3SF 1100	3 x 400 V ± 10 %	110	150	185 ÷ 245	600p	1700p	400p	120

Dimensions note : P indicates floor mounted control panel.

CB-Q3SF_b_te

QDR Series

Three-phase electric panels for the protection and control of a three-phase drainage pump.

Specifications

Automatic control through electromechanical floats
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Power: 0.367 to 9.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power, thermal overload, high level indicator lights
Alarm reset button
/TS version with stator thermal protection circuit
/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

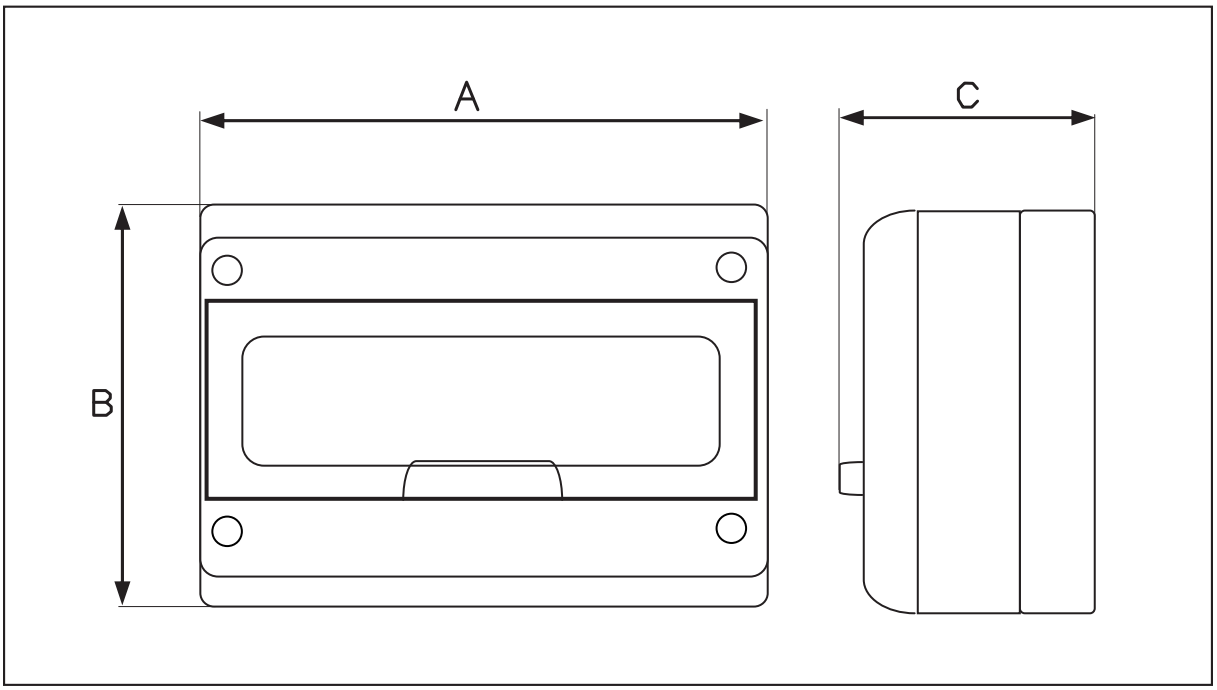
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VR3 three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
QDR/03	3 x 400 V ± 10 %	0,37	0,5	0,63 ÷ 1	280	370	150	4,1
QDR/05	3 x 400 V ± 10 %	0,55	0,75	1 ÷ 1,6	280	370	150	4,1
QDR/07	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	150	4,1
QDR/15	3 x 400 V ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	280	370	150	4,1
QDR/22	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	280	370	150	4,1
QDR/40	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	280	370	150	4,1
QDR/75	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	280	370	150	4,1
QDR/07/TS	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	150	4,5
QDR/15/TS	3 x 400 V ± 10 %	1,5	2	2,5 ÷ 4	280	370	150	4,5
QDR/22/TS	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	280	370	150	4,5
QDR/07/WD	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	280	370	150	5
QDR/15/WD	3 x 400 V ± 10 %	1,5	2	2,5 ÷ 4	280	370	150	5
QDR/22/WD	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	280	370	150	5

The /WD option also includes the /TS option.

CB-QDR-en_c_te

QDR2 Series

Three-phase electric panels for the protection and control of two three-phase drainage pumps.

Specifications

Automatic control through electromechanical floats
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Power: 0.37 to 9.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Electronic board with power, overload, high-level alarm, pump on/off indicator lights
Alarm reset button
/TS version with stator thermal protection circuit
/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

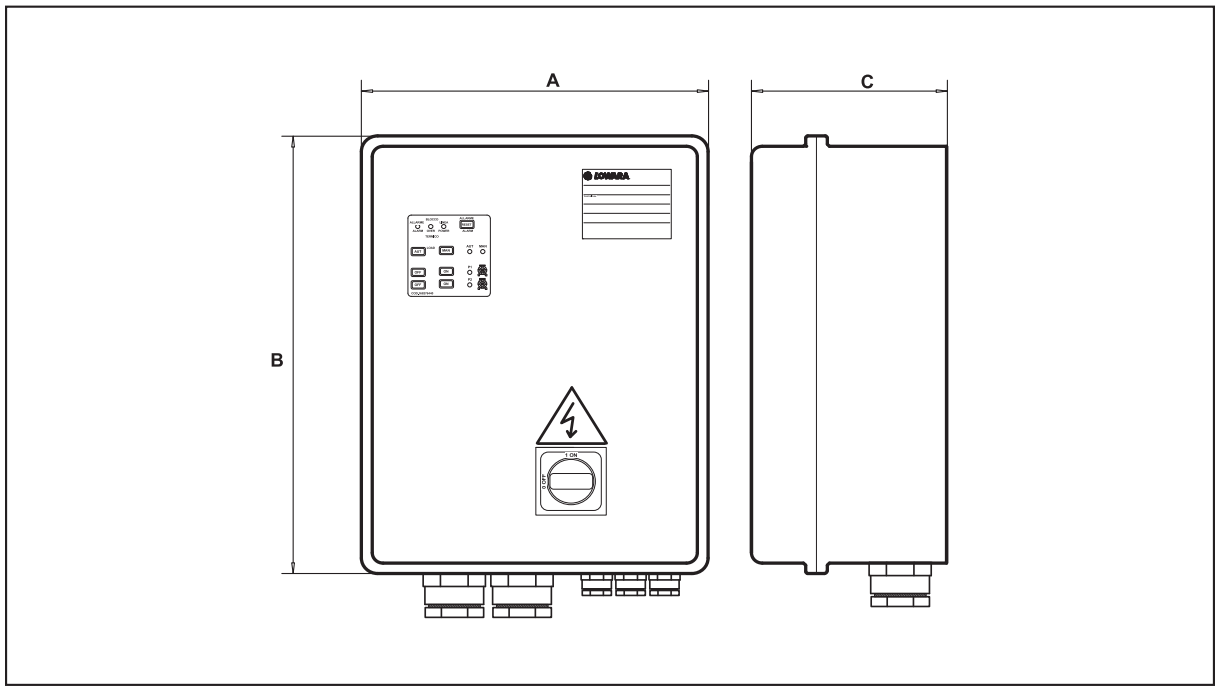
VR3 three-phase module for overvoltage protection (lightning protector)

Signal relay board kit (power, aut/man, on/off, overload, high level)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
QDR2/03	3 x 400 V ± 10 %	0,37	0,5	0,63 ÷ 1	260	380	150	9,4
QDR2/05	3 x 400 V ± 10 %	0,55	0,75	1 ÷ 1,6	260	380	150	9,4
QDR2/07	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	260	380	150	9,4
QDR2/15	3 x 400 V ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	260	380	150	9,4
QDR2/22	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	260	380	150	9,4
QDR2/40	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	260	380	150	9,4
QDR2/75	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	260	380	150	9,4
QDR2/92	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	300	400	180	11
QDR2/07/TS	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	400	400	200	14
QDR2/15/TS	3 x 400 V ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	400	200	14
QDR2/22/TS	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	400	400	200	14
QDR2/07/WD	3 x 400 V ± 10 %	0,75	1	1,6 ÷ 2,5	400	500	200	18
QDR2/15/WD	3 x 400 V ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	2,5 ÷ 4	400	500	200	18
QDR2/22/WD	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	18

The /WD option also includes the /TS option.

CB-QDR2-en_b_te

QDRM Series

Single-phase electric panels for the protection and control of a single-phase drainage pump.

Specifications

Automatic control through electromechanical floats
Supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0.25 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power, thermal overload, high level indicator lights
Alarm reset button

Optional accessories

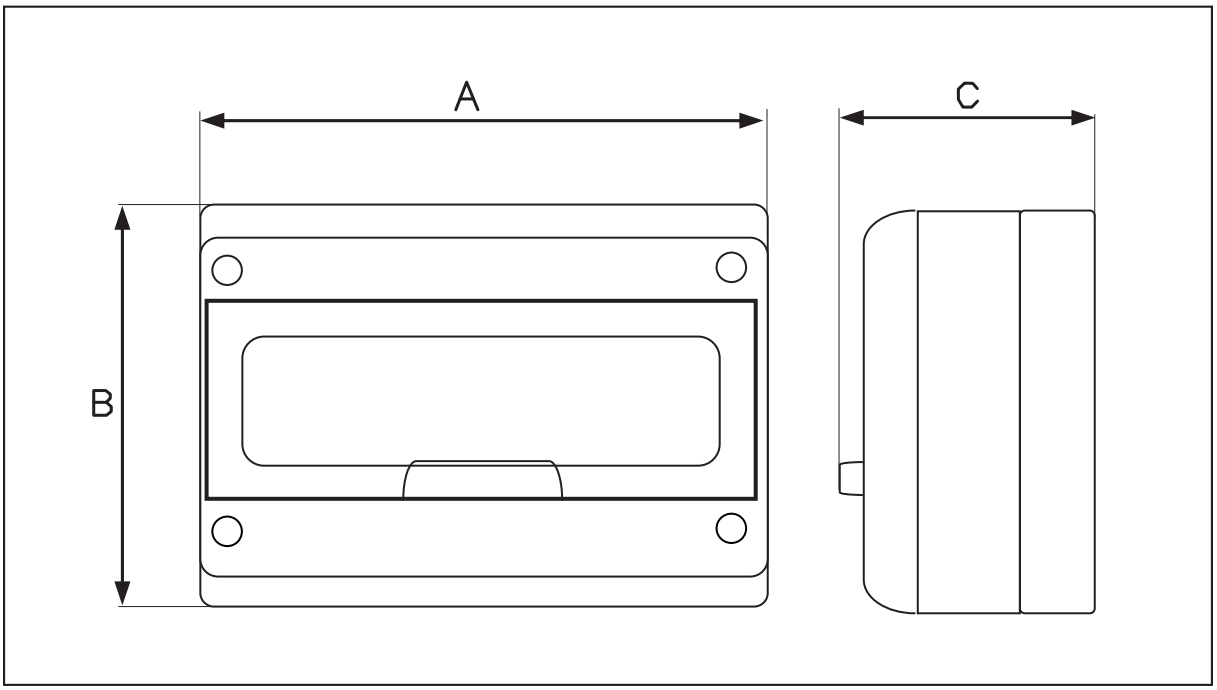
Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

VR1 single-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	B	C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
QDRM/02	1 x 230 V ± 10 %	0,25	0,33	1 ÷ 1,6	280	220	160	2,2
QDRM/03	1 x 230 V ± 10 %	0,37	0,5	1,6 ÷ 2,5	280	220	160	2,2
QDRM/05	1 x 230 V ± 10 %	0,55	0,75	2,5 ÷ 4	280	220	160	2,2
QDRM/07	1 x 230 V ± 10 %	0,75	1	4 ÷ 6,3	280	220	160	2,2
QDRM/15	1 x 230 V ± 10 %	1,1 ÷ 1,5	1,5 ÷ 2	6,3 ÷ 10	280	220	160	2,2
QDRM/22	1 x 230 V ± 10 %	2,2	3	10 ÷ 16	280	370	160	4,1

CB-QDRM-en_c_te

QDRMC Series

Single-phase electric panels for the protection and control of a single-phase drainage pump with external capacitor.

Specifications

Automatic control through electromechanical floats
Supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0.75 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Plastic enclosure
Power, thermal overload, high level indicator lights
Alarm reset button
Run and start capacitor in panel/TS version
with stator thermal protection circuit/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

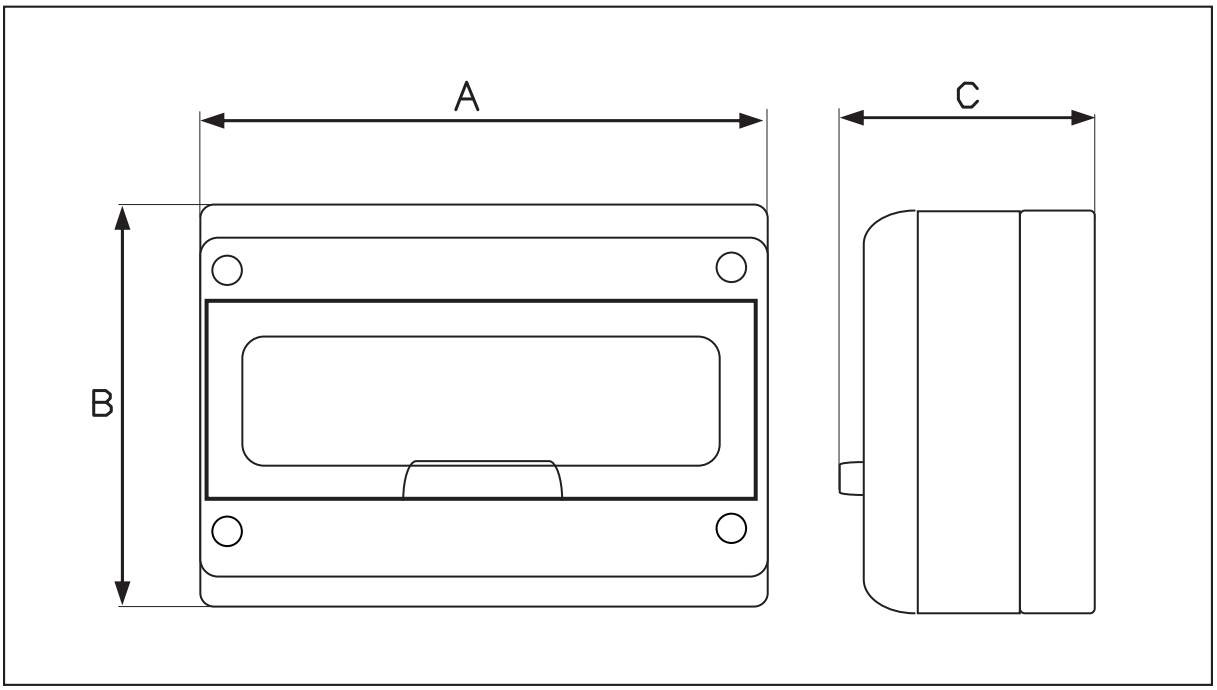
Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

VR1 single-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT			DIMENSIONS A	B	C	WEIGHT	C	Cs
	V	kW	HP	A			mm	mm	mm	Kg	uF	uF
QDRMC/07	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	280	370	160	3,1	20	40
QDRMC/15	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	280	370	160	3,1	35	60
QDRMC/22	1 x 230 V ± 10 %	2,2	3	10	÷	16	280	370	160	3,1	35	60
QDRMC/07/TS	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	280	370	160	3,5	20	40
QDRMC/15/TS	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	280	370	160	3,5	35	60
QDRMC/22/TS	1 x 230 V ± 10 %	2,2	3	10	÷	16	280	370	160	3,5	35	60
QDRMC/07/WD	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	280	370	160	4	20	40
QDRMC/15/WD	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	280	370	160	4	35	60
QDRMC/22/WD	1 x 230 V ± 10 %	2,2	3	10	÷	16	280	370	160	4	35	60
QDRMC/15/TS/GL	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	280	370	160	4	35	100

C= Run capacitor; Cs= Start capacitor

CB-QDRMC-en_e_te

QDRM2 Series

Single-phase electric panels for the protection and control of two single-phase drainage pumps.

Specifications

Automatic control through electromechanical floats
Supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0.25 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Electronic board with power, overload, high-level alarm, pump on/off indicator lights
Alarm reset button

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

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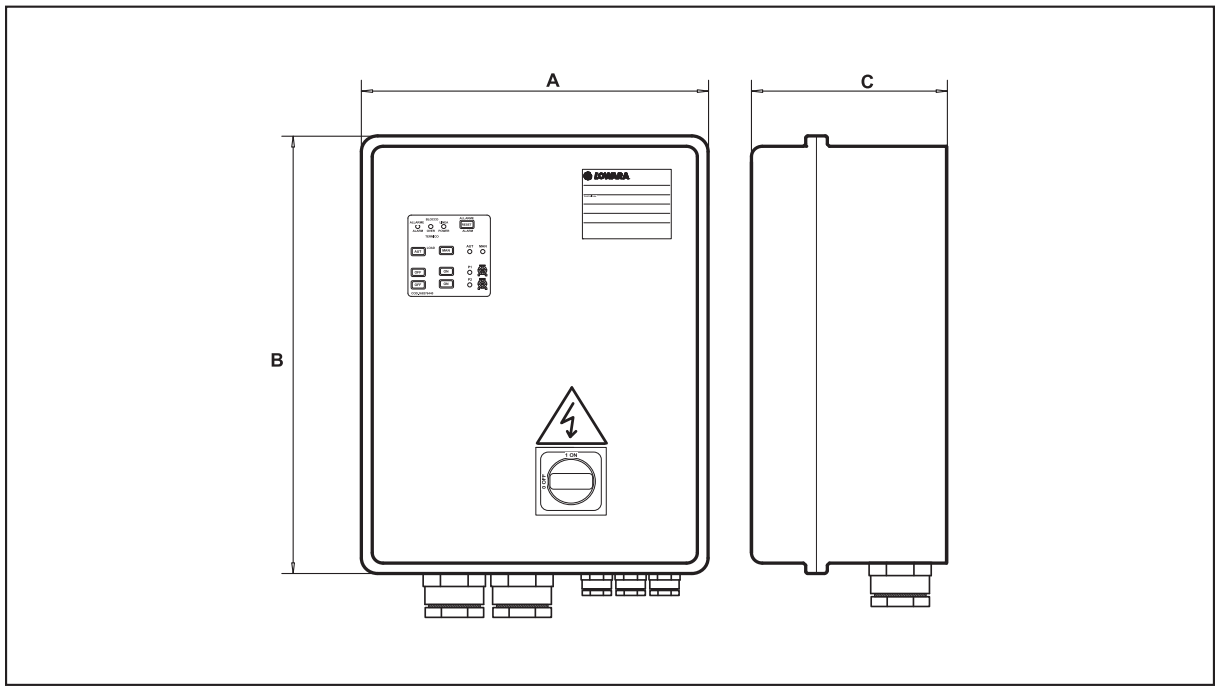
VR1 single-phase module for overvoltage protection (lightning protector)

Signal relay board kit (power, aut/man, on/off, overload, high level)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
					A	B	C	
	V	kW	HP	A	mm	mm	mm	Kg
QDRM2/02	1 x 230 V ± 10 %	0,25	0,33	1 ÷ 1,6	260	380	150	9,4
QDRM2/03	1 x 230 V ± 10 %	0,37	0,5	1,6 ÷ 2,5	260	380	150	9,4
QDRM2/05	1 x 230 V ± 10 %	0,55	0,75	2,5 ÷ 4	260	380	150	9,4
QDRM2/07	1 x 230 V ± 10 %	0,75	1	4 ÷ 6,3	260	380	150	9,4
QDRM2/15	1 x 230 V ± 10 %	1,1 1,5	1,5 2	6,3 ÷ 10	260	380	150	9,4
QDRM2/22	1 x 230 V ± 10 %	2,2	3	10 ÷ 16	260	380	150	9,4

CB-QDRM2_a_te

QDRMC2 Series

Single-phase electric panels for the protection and control of two single-phase drainage pumps with external capacitor.

Specifications

Automatic control through electromechanical floats
Supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0.75 to 2.2 kW
Direct motor starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Plastic enclosure
Electronic board with power, overload, high-level alarm, pump on/off indicator lights
Alarm reset button
Run and start capacitor in panel
/TS version with stator thermal protection circuit
/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

VR1 single-phase module for overvoltage protection (lightning protector)

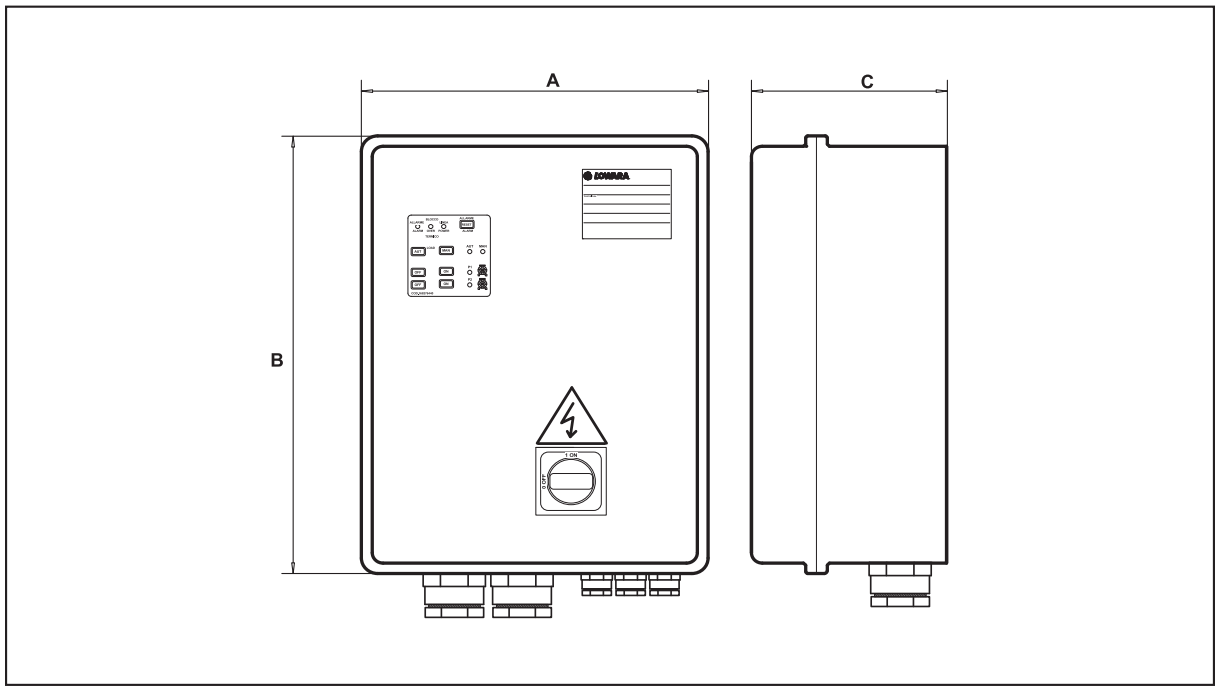
Signal relay board kit (power, aut/man, on/off, overload, high level)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

QDRMC2 SERIES



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT			DIMENSIONS A	B	C	WEIGHT	C	Cs
	V	kW	HP	A			mm	mm	mm	Kg	uF	uF
QDRMC2/07	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	390	470	130	8,5	20	40
QDRMC2/15	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	390	470	130	8,5	35	60
QDRMC2/22	1 x 230 V ± 10 %	2,2	3	10	÷	16	390	470	130	8,5	35	60
QDRMC2/07/TS	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	390	470	130	9	20	40
QDRMC2/15/TS	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	390	470	130	9	35	60
QDRMC2/22/TS	1 x 230 V ± 10 %	2,2	3	10	÷	16	390	470	130	9	35	60
QDRMC2/07/WD	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	390	470	130	10	20	40
QDRMC2/15/WD	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	390	470	130	10	35	60
QDRMC2/22/WD	1 x 230 V ± 10 %	2,2	3	10	÷	16	390	470	130	10	35	60
QDRMC2/15/TS/GL	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	390	470	130	10	35	100

C = Run capacitor; Cs = Start capacitor.

CB-QDRMC2-en_d_te

QGMC Series

Single-phase electric panels for the protection and control of a single-phase drainage pump with external capacitor.

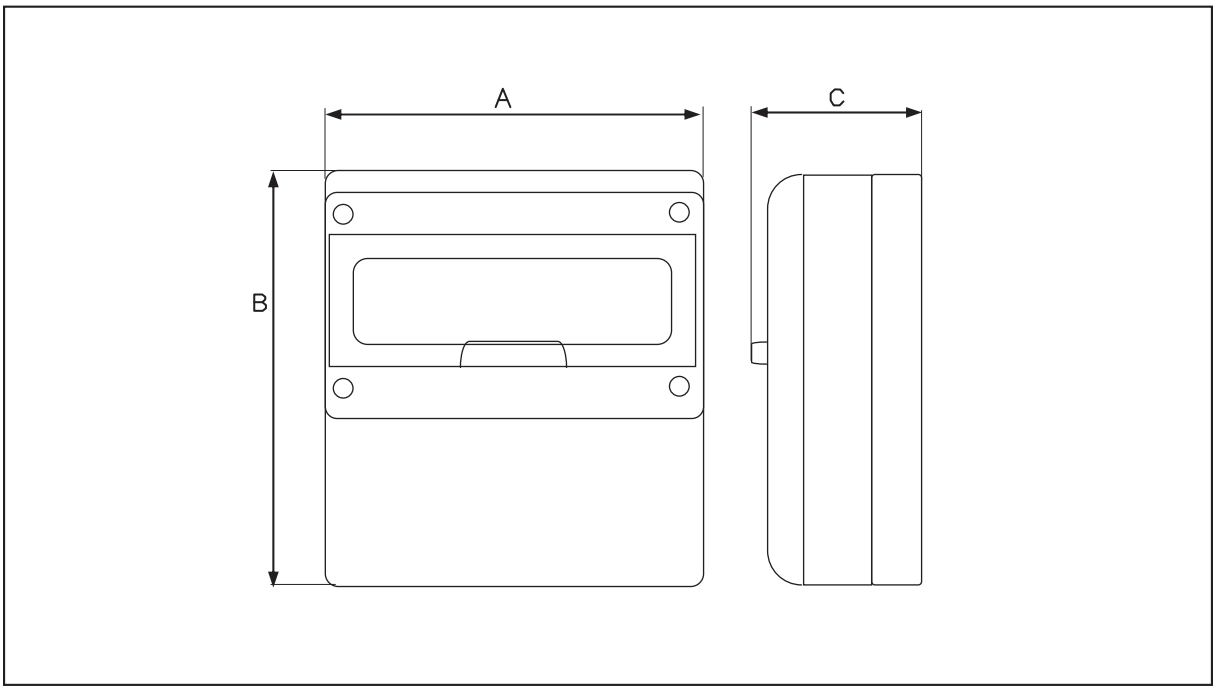
Specifications

Automatic control through external contact
Supply voltage: 1 x 230 V ±10%
Frequency: 50 Hz
Power: 0.75 to 2.2 kW
Direct motor starting
Protection: IP55
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Plastic enclosure
Built-in run capacitor
Built-in start capacitor
Built-in starter
Main switch with thermal protection



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	RATED VOLTAGE	RATED POWER		RATED CURRENT			DIMENSIONS A	DIMENSIONS B	DIMENSIONS C	WEIGHT	C	Cs
	V	kW	HP	A			mm	mm	mm	Kg	µF	µF
QGMC/07	1 x 230 V ± 10 %	0,75	1	4	÷	6,3	280	370	160	3	20	40
QGMC/15	1 x 230 V ± 10 %	1,5	2	6,3	÷	10	280	370	160	3	35	60
QGMC/22	1 x 230 V ± ±10 %	2,2	3	10	÷	16	280	370	160	3	35	60

C = Run capacitor; Cs = Start capacitor.

CB-QGMC_a_te

QYR Series

Three-phase electric panels for the protection and control of a three-phase drainage pump with star-delta starting.

Specifications

Automatic control through electromechanical floats
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Power: 3 to 75 kW
Star-delta starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Power, thermal overload, high level indicator lights
Alarm reset button
/TS version with stator thermal protection circuit
/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

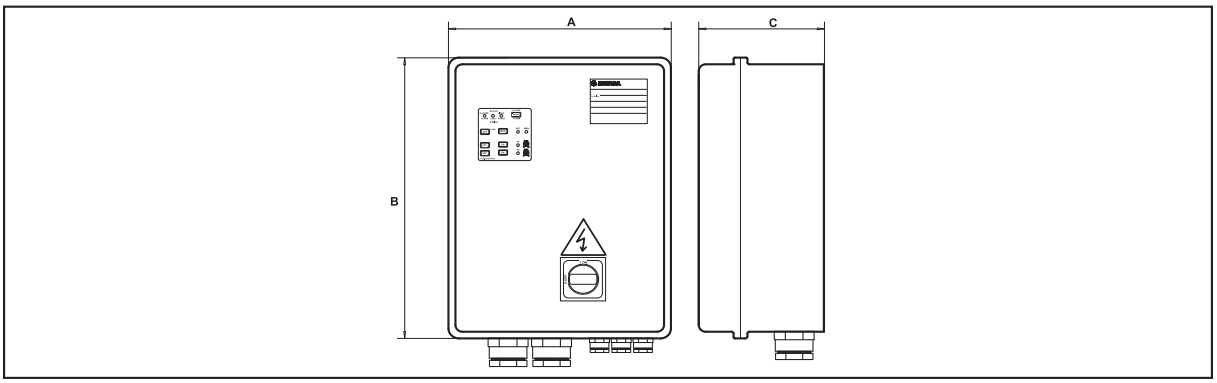
VR3 (for QDR) three-phase module for overvoltage protection (lightning protector)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

QYR SERIES



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
					A	B	C	
	V	kW	HP	A	mm	mm	mm	Kg
QYR/40	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	25
QYR/75	3 x 400 V ± 10 %	5,5 ÷ 7,5	7.5 ÷ 10	10 ÷ 16	400	500	200	25
QYR/92	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	25
QYR/110	3 x 400 V ± 10 %	11	15	20 ÷ 25	400	500	200	25
QYR/150	3 x 400 V ± 10 %	15	20	22 ÷ 32	400	600	200	27
QYR/185	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	400	600	200	27
QYR/220	3 x 400 V ± 10 %	22	30	36 ÷ 50	500	700	200	32
QYR/300	3 x 400 V ± 10 %	30	40	45 ÷ 63	500	700	200	32
QYR/370	3 x 400 V ± 10 %	37	50	57 ÷ 75	600	800	250	32
QYR/450	3 x 400 V ± 10 %	45	60	70 ÷ 90	600	800	250	32
QYR/550	3 x 400 V ± 10 %	55	75	80 ÷ 108	600	900	250	37
QYR/750	3 x 400 V ± 10 %	75	100	105 ÷ 138	600p	1300p	300p	70
QYR/22/TS	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	400	500	200	25
QYR/40/TS	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	26
QYR/75/TS	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	26
QYR/92/TS	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	26
QYR/110/TS	3 x 400 V ± 10 %	11	15	20 ÷ 25	400	500	200	26
QYR/150/TS	3 x 400 V ± 10 %	15	20	22 ÷ 32	400	600	200	27
QYR/185/TS	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	400	600	200	27
QYR/220/TS	3 x 400 V ± 10 %	22	30	36 ÷ 50	500	700	200	32
QYR/300/TS	3 x 400 V ± 10 %	30	40	45 ÷ 63	500	700	200	32
QYR/370/TS	3 x 400 V ± 10 %	37	50	57 ÷ 75	600	800	250	33
QYR/450/TS	3 x 400 V ± 10 %	45	60	70 ÷ 90	600	800	250	33
QYR/550/TS	3 x 400 V ± 10 %	55	75	80 ÷ 108	600	900	250	37
QYR/750/TS	3 x 400 V ± 10 %	75	100	105 ÷ 138	600p	1300p	300p	70
QYR/40/WD	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	400	500	200	26
QYR/75/WD	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	400	500	200	26
QYR/92/WD	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	400	500	200	26
QYR/110/WD	3 x 400 V ± 10 %	11	15	20 ÷ 25	400	500	200	26
QYR/150/WD	3 x 400 V ± 10 %	15	20	22 ÷ 32	400	600	200	28
QYR/185/WD	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	400	600	200	28
QYR/220/WD	3 x 400 V ± 10 %	22	30	36 ÷ 50	500	700	200	33
QYR/300/WD	3 x 400 V ± 10 %	30	40	45 ÷ 63	500	700	200	33
QYR/370/WD	3 x 400 V ± 10 %	37	50	57 ÷ 75	600	800	250	33
QYR/450/WD	3 x 400 V ± 10 %	45	60	70 ÷ 90	600	800	250	33
QYR/550/WD	3 x 400 V ± 10 %	55	75	80 ÷ 108	600	900	250	38
QYR/750/WD	3 x 400 V ± 10 %	75	100	105 ÷ 138	600p	1300p	300p	71

Dimensions: p = floor-standing cabinet.

CB-QYR-en_e_te

QYR2 Series

Three-phase electric panels for the protection and control of two three-phase drainage pumps with star-delta starting.

Specifications

Automatic control through electromechanical floats
Supply voltage: 3 x 400 V ±10%
Frequency: 50/60 Hz
Power: 3 to 75 kW
Star-delta starting
Protection: IP54
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Metal enclosure
Electronic board with power, overload, high-level alarm, pump on/off indicator lights
Alarm reset button
/TS version with stator thermal protection circuit
/WD version with water control probe in oil bath and stator thermal protection

Optional accessories

Audible or visual signalling device, 12 Vdc 0.3 A max. (inside the electric panel there are two connection terminals) for high-level alarm

VR3 three-phase module for overvoltage protection (lightning protector)

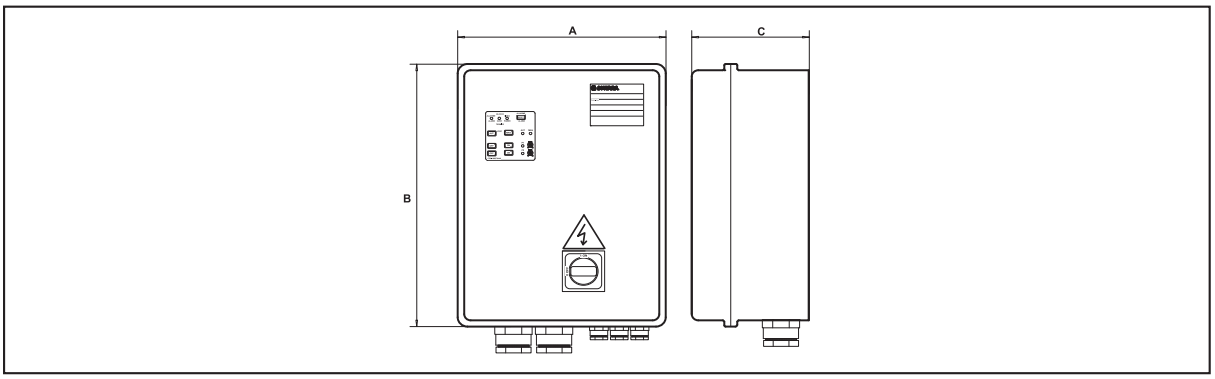
Signal relay board kit (power, aut/man, on/off, overload, high level)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

QYR2 SERIES



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS			WEIGHT
	V	kW	HP	A	A mm	B mm	C mm	Kg
QYR2/40	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110	3 x 400 V ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150	3 x 400 V ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220	3 x 400 V ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300	3 x 400 V ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370	3 x 400 V ± 10 %	37	50	57 ÷ 75	600p	1300p	300p	92
QYR2/450	3 x 400 V ± 10 %	45	60	70 ÷ 90	800p	1700p	300p	125
QYR2/550	3 x 400 V ± 10 %	55	75	80 ÷ 108	800p	1700p	300p	125
QYR2/750	3 x 400 V ± 10 %	75	100	105 ÷ 138	800p	1900p	300p	148
QYR2/22/TS	3 x 400 V ± 10 %	2,2	3	4 ÷ 6,3	500	700	200	55
QYR2/40/TS	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75/TS	3 x 400 V ± 10 %	5,5 ÷ 7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92/TS	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110/TS	3 x 400 V ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150/TS	3 x 400 V ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185/TS	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220/TS	3 x 400 V ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300/TS	3 x 400 V ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370/TS	3 x 400 V ± 10 %	37	50	57 ÷ 75	600p	1300p	300p	92
QYR2/450/TS	3 x 400 V ± 10 %	45	60	70 ÷ 90	800p	1700p	300p	125
QYR2/550/TS	3 x 400 V ± 10 %	55	75	80 ÷ 108	800p	1700p	300p	125
QYR2/750/TS	3 x 400 V ± 10 %	75	100	105 ÷ 138	800p	1900p	300p	148
QYR2/40/WD	3 x 400 V ± 10 %	3 ÷ 4	4 ÷ 5,5	6,3 ÷ 10	500	700	200	55
QYR2/75/WD	3 x 400 V ± 10 %	5,5 ÷7,5	7,5 ÷ 10	10 ÷ 16	500	700	200	55
QYR2/92/WD	3 x 400 V ± 10 %	9,2	12,5	16 ÷ 20	500	700	200	55
QYR2/110/WD	3 x 400 V ± 10 %	11	15	20 ÷ 25	500	700	200	55
QYR2/150/WD	3 x 400 V ± 10 %	15	20	22 ÷ 32	600	800	250	68
QYR2/185/WD	3 x 400 V ± 10 %	18,5	25	28 ÷ 40	600	800	250	68
QYR2/220/WD	3 x 400 V ± 10 %	22	30	36 ÷ 50	600	900	250	75
QYR2/300/WD	3 x 400 V ± 10 %	30	40	45 ÷ 63	600	900	250	75
QYR2/370/WD	3 x 400 V ± 10 %	37	50	57 ÷ 75	600p	1300p	300p	92
QYR2/450/WD	3 x 400 V ± 10 %	45	60	70 ÷ 90	800p	1700p	300p	125
QYR2/550/WD	3 x 400 V ± 10 %	55	75	80 ÷ 108	800p	1700p	300p	125
QYR2/750/WD	3 x 400 V ± 10 %	75	100	105 ÷ 138	800p	1900p	300p	148

Dimensions: p = floor-standing cabinet.

CB-QYR2-en_b_te

QXR20 Series

Protection and control of two single-phase drainage pumps.

Specifications

Automatic control through electromechanical floats
Power supply voltage: 1 x 230 V ±10%
Frequency: 50/60 Hz
Power: 0,25 to 1,5 kW
Direct motor start
Protection class: IP55
Ambient temperature: -5 to +40 °C (according to EN 60439-1)
Maximum relative humidity: 50% at +40°C, provided that no condensation occurs (according to EN 60439-1)
Wall mounted
Plastic enclosure
Electronic board with power, thermal overload, acustic alarm of high level, pump, start/stop indicator LEDs
Alarm silencing button
Cyclic exchange starting pumps
Aut-0-Man selector (1 for each pump)
One pump is controlled by the closing of internal contact that is inside the control card

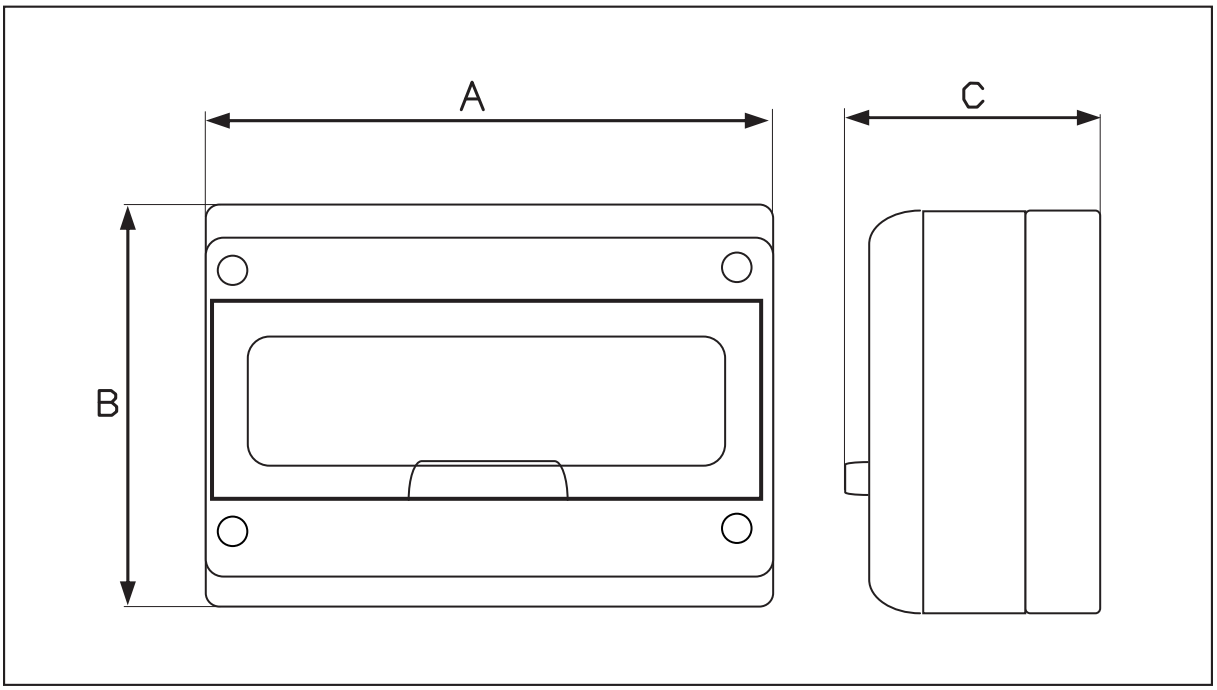
Optional accessories

Signal relay board kit (power, auto man, start/stop, thermal overload, high level)



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



MODEL	RATED VOLTAGE	RATED POWER		RATED CURRENT	DIMENSIONS A	DIMENSIONS B	DIMENSIONS C	WEIGHT
	V	kW	HP	A	mm	mm	mm	Kg
QXR20	1 x 230 V ± 10 %	0,25 ÷ 1,5	0,33 ÷ 2	1 ÷ 10	205	220	160	1,5

CB-QXR20-en_a_te

QCL5 Series

Level control panel. Accessory for electric pump control panels, suitable for tank filling or drainage applications or for activation of sound or visual alarms.

Specifications

Automatic control through probes
Power supply: 1 x 230 V ±10% o
1 x 24 V ±10%
Frequency: 50/60 Hz
Voltage to probes:
15 Vac at 0.5 mA max.
Switch contact: 48 Vac at 3 A max. (250 W max.)
Protection: IP55
Ambient temperature: -5 to +40 °C (limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at +40°C provided that no condensation occurs (limit specified by EN standard 60439-1)
Wall mounted
Plastic enclosure
Electrodes suitable for water at a maximum temperature of 40°C
Set of three electrodes included in supply

Optional accessories

Drop cable with circular cross-section
For connecting electrodes to the panel, the following cross-sections are recommended:

PANEL TYPE m		CABLE CROSS SECTION mm²
0	50	0,5
50	100	0,8
100	200	1,0
200	400	2,5
400	>	4,0

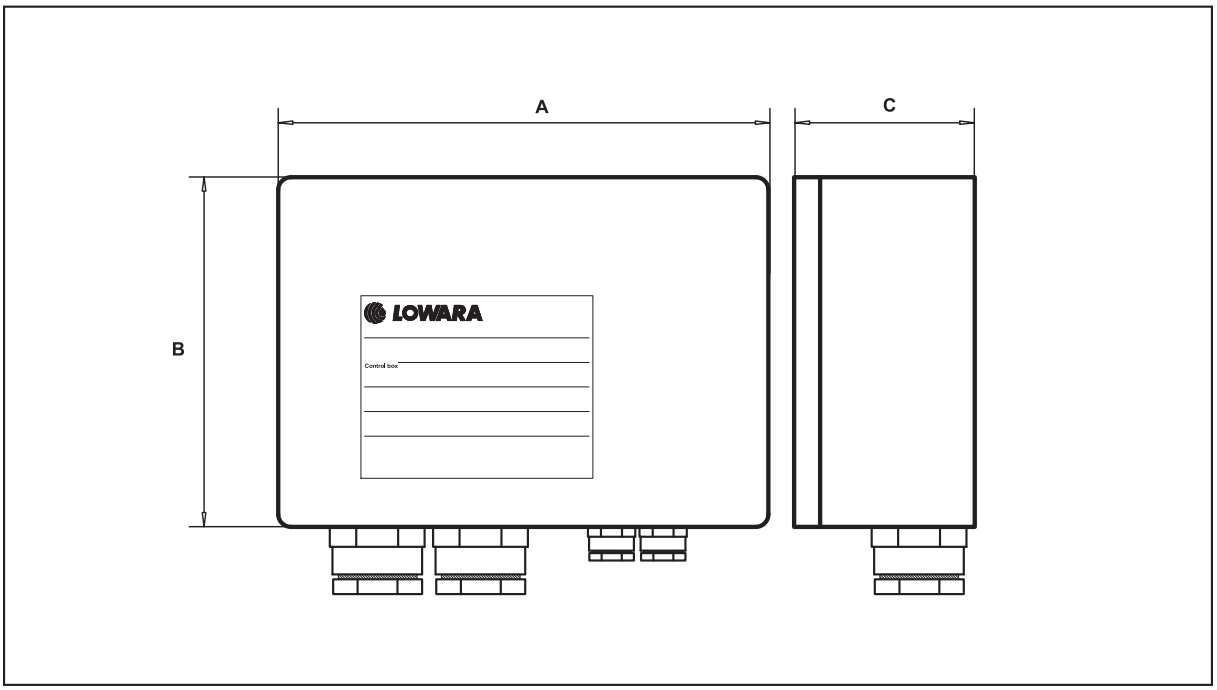
CB-CASEL_a_te

Three-pole cables can be used for short lengths.
Otherwise, one-pole cables placed at suitable distances from each other should be used to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	POWER INPUT			CONTACTS			DIMENSIONS	WEIGHT
	TENSION	FREQUENCY	POWER	PANEL TYPE	DELIVERY		A x B x C	
	V	Hz	W		V	A	mm	Kg
QCL5/24	1 x 24	50/60	2	NO-C-NC	48	3	90 x 130 x 60	0,5
QCL5/230	1 x 230	50/60	2					

CB-QCL5_a_te

QCL10 Series

Level control panel. Accessory for electric pump control panels, suitable for tank filling or drainage applications or for activation of sound or visual alarms.

Specifications

Automatic control through probes
Power supply: 1 x 230 V ±10% o
1 x 24 V ±10%
Frequency: 50/60 Hz
Voltage to probes: 15 Vac at
0.5 mA max.
Protection: IP55
Ambient temperature: -5 to +40 °C
(limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at
+40°C provided that no condensation
occurs (limit specified by EN standard
60439-1)
Wall mounted
Plastic enclosure
Electrodes suitable for water at a
maximum temperature of 40°C
Set of three electrodes included in supply

Optional accessories

Drop cable with circular cross-section
For connecting electrodes to the panel, the following cross-sections are recommended:

PANEL TYPE m		CABLE CROSS SECTION mm²
0	50	0,5
50	100	0,8
100	200	1,0
200	400	2,5
400	>	4,0

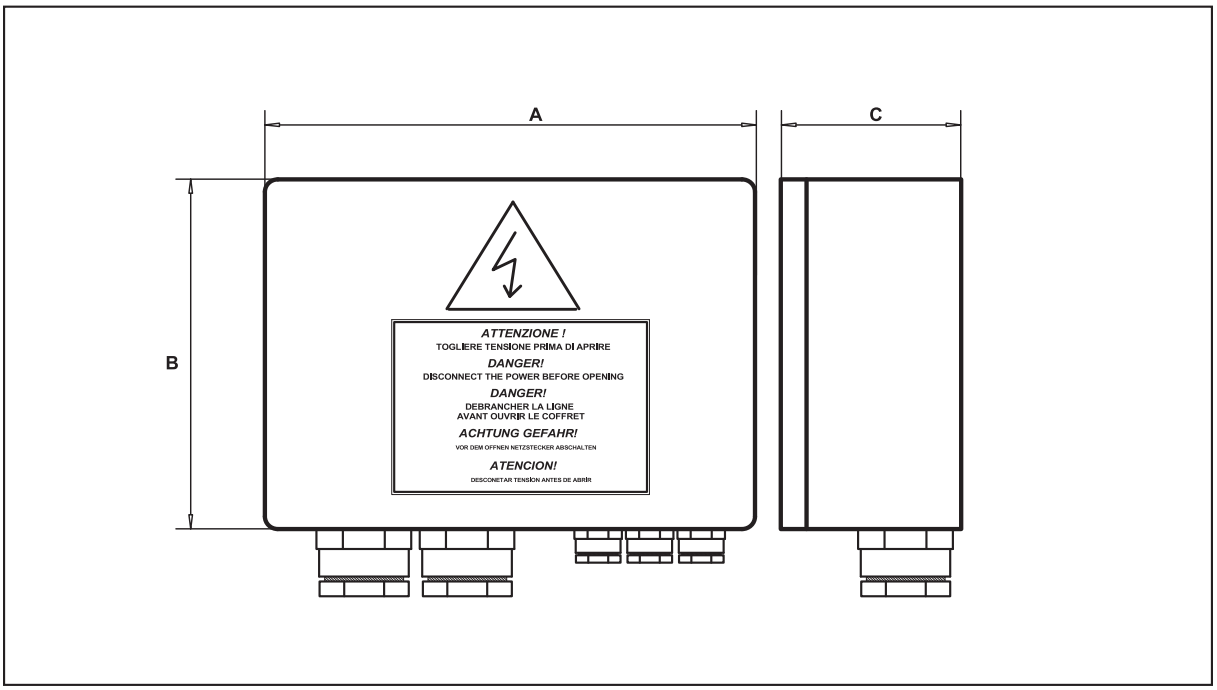
CB-CASEL_a_te

Three-pole cables can be used for short lengths.
Otherwise, one-pole cables placed at suitable distances from each other should be used to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	POWER INPUT				CONTACTOR			DIMENSIONS	WEIGHT
	MAIN		SECONDARY		CLASS	DELIVERY		A x B x C	
	V		V			V	A	mm	Kg
QCL10/24	1x230	50/60 Hz	1x 24	50/60 Hz	AC3	230	9	170 x 170 x 130	1
QCL10/230	1x230	50/60 Hz	-						

CB-QCL10_a_te

QCLP10 Series

Level control panel. Accessory for electric pump control panels, suitable for tank filling or drainage applications or for activation of sound or visual alarms.

Specifications

Automatic control through probes
Power input:
1 x 230 V ±10% o 1 x 24 V ±10%
Frequency: 50/60 Hz
Voltage to probes: 15 Vac at
0.5 mA max.
Protection: IP55
Ambient temperature: -5 to +40 °C
(limit specified by EN standard 60439-1)
Maximum relative humidity: 50% at
+40°C provided that no condensation
occurs (limit specified by EN standard
60439-1)
Wall mounted
Plastic enclosure with clear door enabling
access to the magnetothermal switch
Electrodes suitable for water at a
maximum temperature of 40°C
Set of three electrodes included in supply

Optional accessories

Drop cable with circular cross-section
For connecting electrodes to the panel, the following cross-sections are recommended:

PANEL TYPE m		CABLE CROSS SECTION mm²
0	50	0,5
50	100	0,8
100	200	1,0
200	400	2,5
400	>	4,0

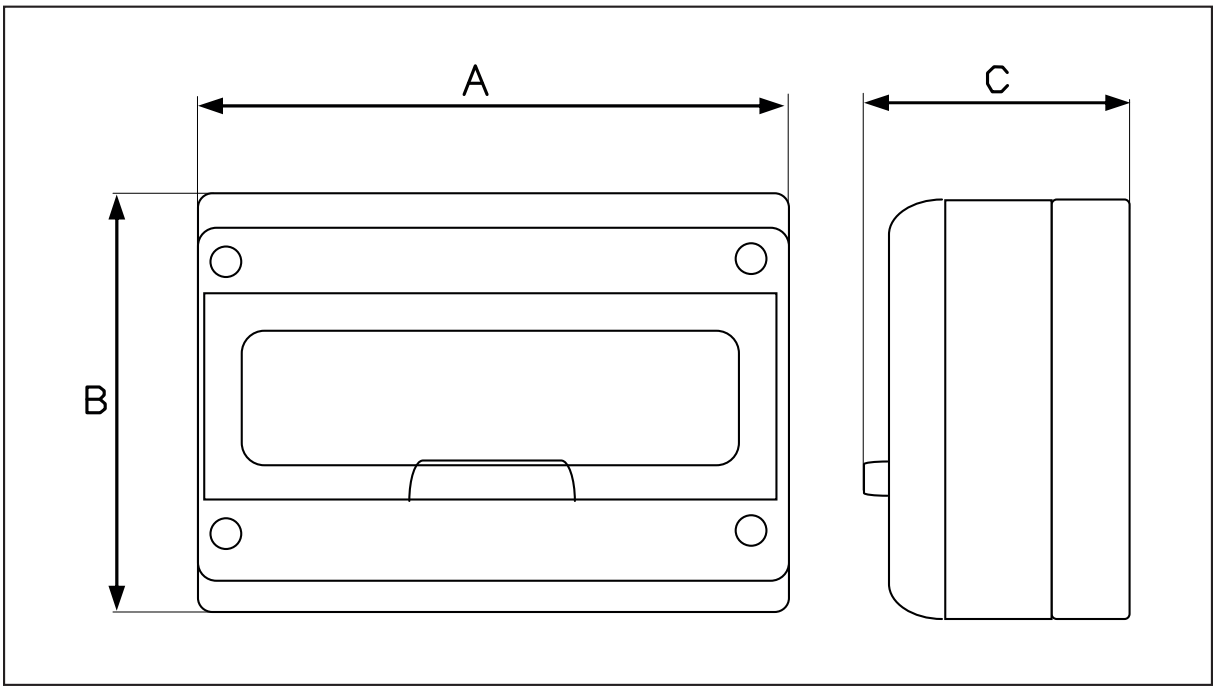
CB-CASEL_a_te

Three-pole cables can be used for short lengths. Otherwise, one-pole cables placed at suitable distances from each other should be used to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com



PANEL TYPE	POWER INPUT				CONTACTOR			MAGNETOTHERMAL SWITCH		DIMENSIONS A x B x C	WEIGHT
	MAIN		SECONDARY		CLASS	DELIVERY					
	V		V			V	A			mm	Kg
QCLP10/24	1x230	50/60 Hz	1x 24	50/60 Hz	AC3	230	9	C 10A	Icn 6 KA	170 x 170 x 100	1,5
QCLP10/230	1x230	50/60 Hz	-								

CB-QCLP10_a_te

KSL Series

Accessory for electric panels.

Specifications

Electronic module for use of probes as protection against dry running
Supply voltage: 1 x 24 V ±10% for model SLD/24
Frequency: 50/60 Hz
Absorbed power: 3,5 VA max
Voltage to probes: 7,5 V AC at 0,4 mA max
Switch contact 24 V AC at 5 A max (250 W max)
Designed for installation on Lowara electric panels featuring DIN bar
Electrodes suitable for water at a maximum temperature of 60°C

Optional accessories

Module made of plastic material with DIN bar attachment
Cables with quick plug-in connectors
Set of three electrodes included in the supply
Electrodes with nylon 6 body, stainless steel sensitive element brass washer and nitrile rubber seal

Optional accessories

Drop cable with circular cross section.
For connection of the electrodes to the panel we recommend the following cross sections:

PANEL TYPE m		CABLE CROSS SECTION mm²
0	50	0,5
50	100	0,8
100	200	1,0
200	400	2,5
400	>	4,0

CB-CASEL_a_te

Three-pole cables can be used for short lenghts.
Otherwise we recommend the use of unipolar cables placed at suitable distance from each other to prevent the capacitive effect of the cable from interfering with the proper operation of the electronic module.



TYPE	POWER SUPPLY MAIN V		POWER VA	CONTACT TYPE	RANGE V~	RANGE A	DIMENSIONS A x B x C mm	WEIGHT Kg	PANELS
KIT KSL/24	1x24	50/60 Hz	3,5	N0-C-NC	250	8	90 x 36 x 60	0,5	QSCS-QM-QTD-Q3D-Q3Y-Q3A-Q3I-Q3SF

CB-SLD-en_b_te

For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

DPF, VR, SCA3 Series

Lightining protection. Accessory for electric panels.

DPF SERIES Specifications

Varistor for overvoltage protection of single-phase lines. To be connected between the phase and neutral conductor

Operating voltage: 460 V AC

Maximum varistor voltage: 750 V with 100 A peak current

VR SERIES Specifications

Varistors for overvoltage protection of three-phase lines

To be connected between the phases (VR3 model)

Operating voltage: 460 V AC

Maximum varistor voltage: 750 V with 100 A peak current

Designed for installation on Lowara electric panels featuring DIN bar

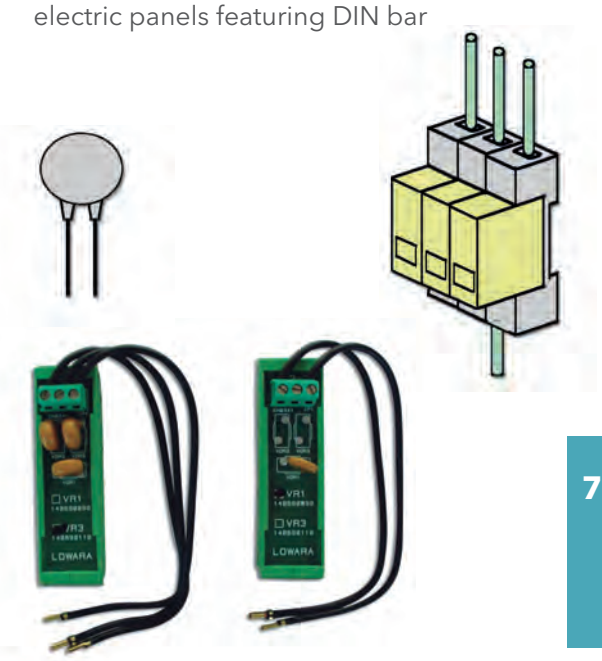
SCA3 SERIES Specifications

Lightning arresters for overvoltage protection of three-phase lines. To be connected between the phases and the heart conductor

Operating voltage: 500 V AC.

Maximum varistor voltage: 2,5 kW with 40 kA peak current.

Designed for installation on Lowara electric panels featuring DIN bar



TYPE	VOLTAGE V	PANELS
DPF	1 x 220-240 50/60 Hz	QSM - QSC - QSCS - QPC
KIT VR1	1 x 220-230 50/60 Hz	QM - QDRM - QDRM2 - QDRMC - QDRMC2
KIT VR3	3 x 400 50/60 Hz	QTD - QDR - QDR2 - Q3D
KIT SCA 3	3 x 400 50/60 Hz	Q3Y-Q3A-Q3I-Q3SF-Q3D

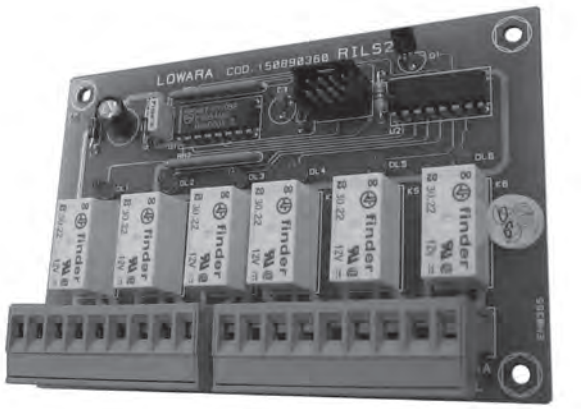
CB-VR-en_c_te

For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

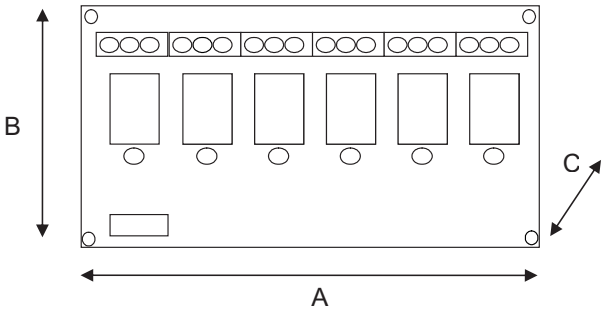
KIT RILS20 Series

Applicable to Lowara electronic boards series SM20C and SDR20B.



Specifications

12 Vdc power input from motherboard
Six low profile 12 Vdc relays with 1A 230 Vac exchange contact
Indicator LED's available for each relay
Available signals:
power-on, manual/automatic mode, pump 1 running, pump 2 running, thermal overload, level alarm
Assembly:
with board guides as well as 4 holes for flat-mounting on uprights
Customer-side output connections:
removable clamp
Maximum dimensions:
A=112 mm, B=80 mm, C=22 mm



Product features

Complete electronic board providing clean system status contacts
Can be connected, via an 8-way serial cable with sealed plug, to boards SM20C, SDR20B (1000 mm long cable supplied)
1500 mm long cable available on request

For proper electric panel-electric pump selection, make sure that the Ampere input of the motor falls within the rated current range shown in the table.

For a complete list of technical information, consult www.lowara.com

ACCESSORIES 8

GENYO SERIES
Electronic pump controller 572

Accessories 574

GENYO Series

Range of compact electronic devices, pressure/flow switches for control and protection of single-phase electric pumps designed for residential applications.

Specifications

Power supply: single-phase 50 and 60 Hz
Operating temperature: 0 – 60°C
Maximum operating pressure: 10 bar
Maximum flow rate: 10m^3/h
Protection: IP 65



Applications

Domestic pressure boosting (single and multi-family dwellings)

Small irrigation and lawn sprinkling systems

Civil water systems: bathing establishments, campsites and sports facilities

Benefits

Dry-running protection

Stable pressure without fluctuations at constant operating point

Back-up tank to compensate for small leaks or drips in the hydraulic system

Automatic restart (for GENYO 16A)

Adjustable starting pressure (for GENYO 16A)

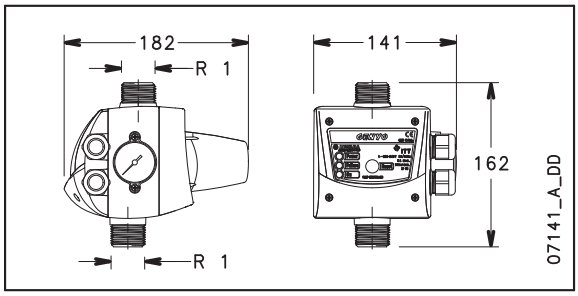
Versions with GB and AU cables and plugs available on request



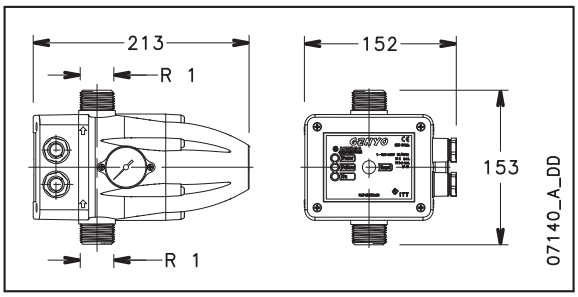
For a complete list of technical information, consult www.lowara.com

GENYO SERIES
DIMENSIONAL DATA

GENYO 8A

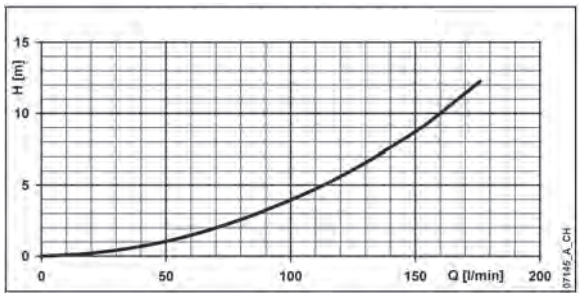


GENYO 16A

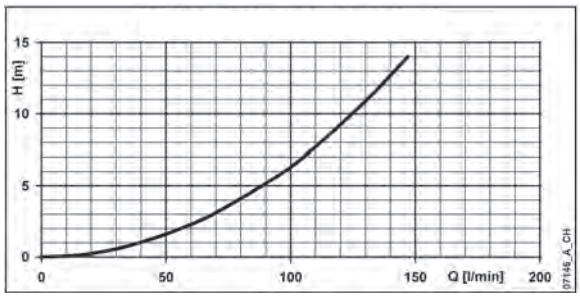


FLOW RESISTANCE DIAGRAM

GENYO 8A



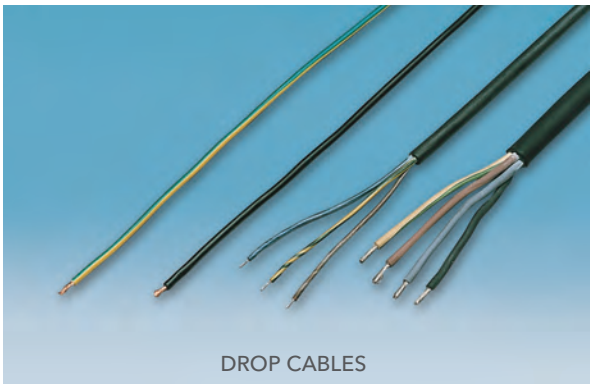
GENYO 16A



MODELLI*	ACCESSORIES INCLUDED	MAX CURRENT	START PRESSURE
GENYO 8A/F12	Pressure gauge	8A	Fixed start P: 1.2 bar
GENYO 8A/F15	Pressure gauge	8A	Fixed start P: 1.5 bar
GENYO 8A/F22	Pressure gauge	8A	Fixed start P: 2.2 bar
GENYO 16A/R15-25	Pressure gauge	16A	Adjustable start P: 1.5÷2.5 bar

* Version with Power Supply Cable/Plug and Motor cable also available.

ACCESSORIES



DROP CABLES



FLOATS



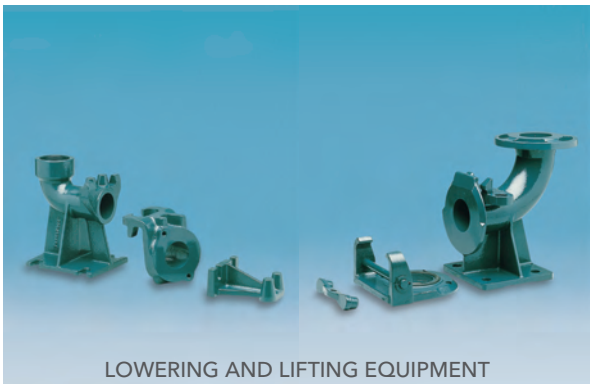
CABLE SPLICING TAPE



BALL CHECK VALVES (FOR SOLID-LADEN WASTE WATER)



RESIN-FILLED SPLICING KIT



LOWERING AND LIFTING EQUIPMENT



HEAT-SHRINK SPLICING KIT

8



PRESSURE SWITCHES



FLEXIBLE PIPES



LEVEL INDICATORS



AIR FEEDERS



MEDIUM-DELIVERY WATER FILTERS (UP TO 10 M^3/H)



HIGH-DELIVERY WATER FILTERS (UP TO 30 M^3/H)



WATER SOFTENERS



POLYPHOSPHATE PROPORTIONERS

Technical Appendix 9

Horizontal pump negative suction driven by da Hydrovar® 578

Horizontal pump positive suction driven by da Hydrovar® 579

Example of installation of single-pump system 580

Example of installation of two-pump system with three floats 581

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Level control float 583

Ball check valve for solids-laden water 583

Submersible electric pump installation diagram 584

Example of installation of a submersible electric pump controlled by an inverter (Hydrovar®) 585

Submersible motors: table of power reduction coefficients with increased water temperature 586

Submersible motors: selecting cable cross-sections 587

Submersible motors: cable dimensions 588

Submersible motors: joint between drop cable and motor cable 600

Submersible motors:
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Asynchronous motor starting systems 602

Water requirements in civil users
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Use of booster set 606

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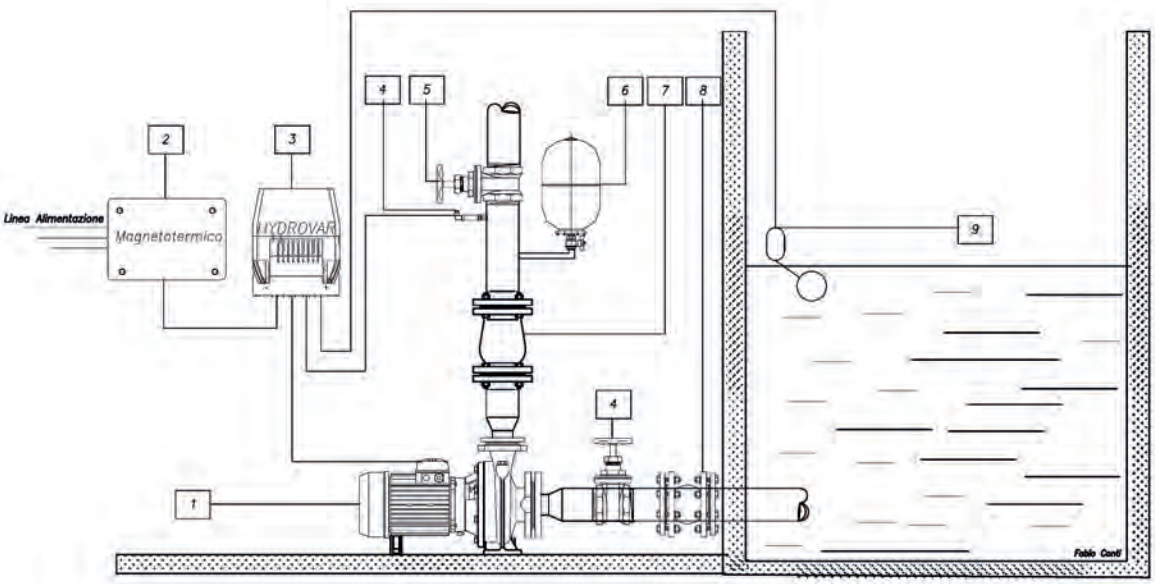
Table of flow resistance in 100 m of straight cast iron pipeline 611

Units of measurement 613

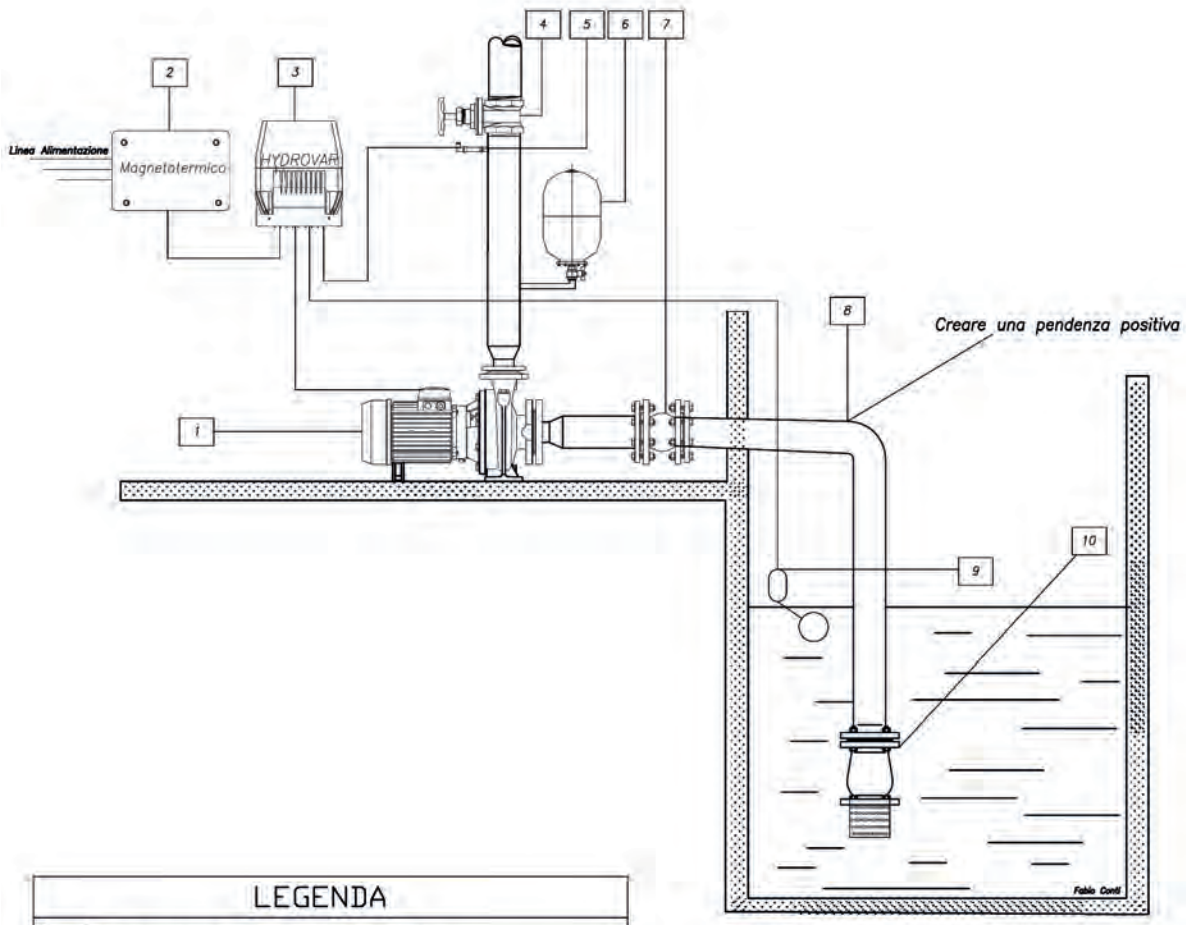
Xylect 614

HORIZONTAL PUMP NEGATIVE SUCTION DRIVEN BY HYDROVAR®

LEGENDA	
1	End-suction pump
2	Thermal overload switch
3	Hydrovar (inverter)
4	Pressure transducer
5	Gate valve
6	Membrane tank 24 l
7	Check valve (flanged or threaded)
8	Flexible connection to fix in case of walled pipes
9	Float switch (against dry running)

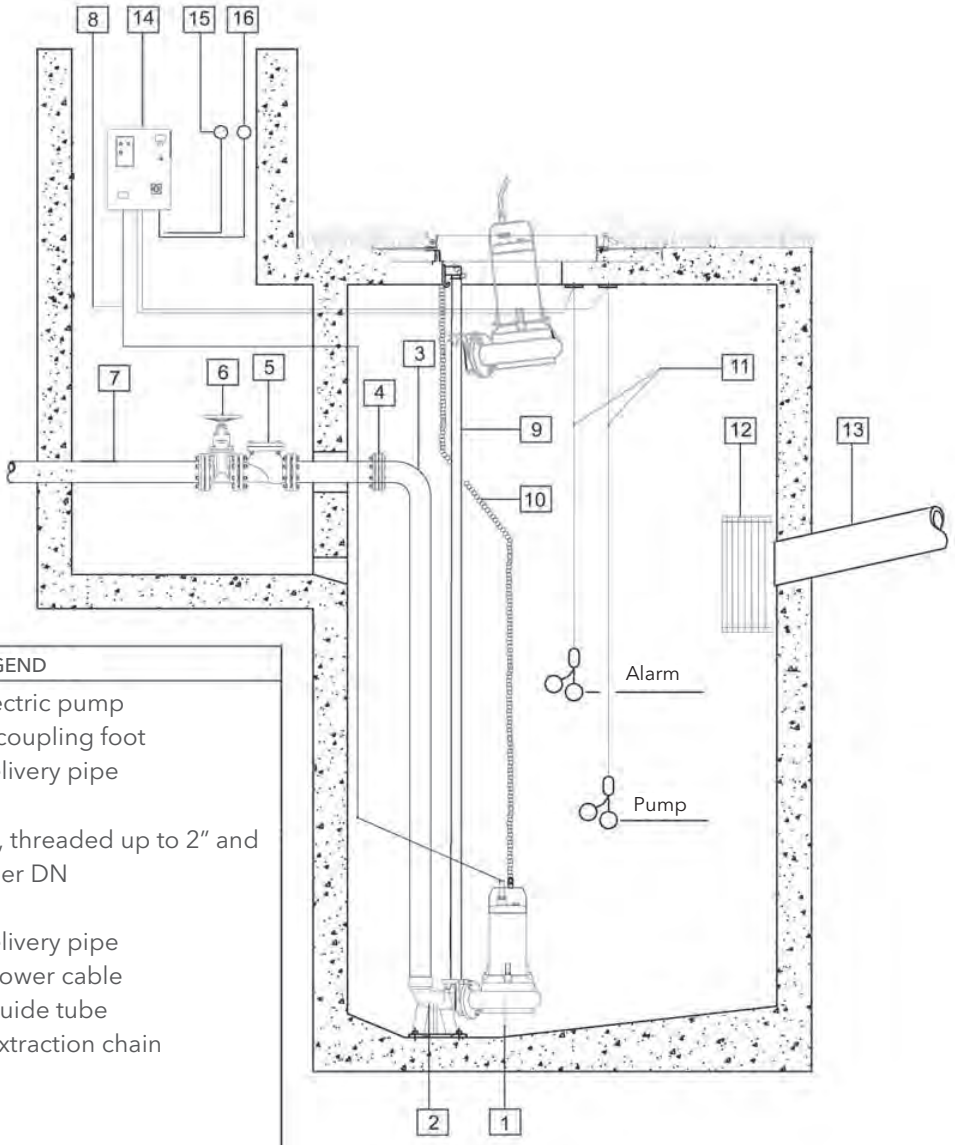


HORIZONTAL PUMP POSITIVE SUCTION DRIVEN BY HYDROVAR®



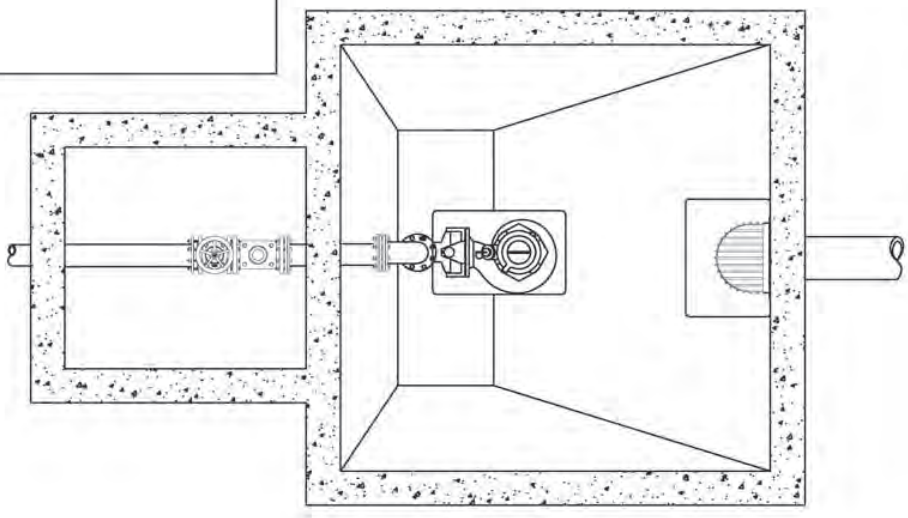
LEGENDA	
1	End-suction pump
2	Thermal overload switch
3	Hydrovar (inverter)
4	Gate valve
5	Pressure transducer
6	Membrane tank 24 l (always in vertical position
7	Flexible connection to fix in case of walled pipes
8	Suction pipe (to do a positive slope)
9	Float switch (against dry running)
10	Foot valve with strainer (flanged or threaded)

EXAMPLE OF INSTALLATION OF SINGLE-PUMP SYSTEM

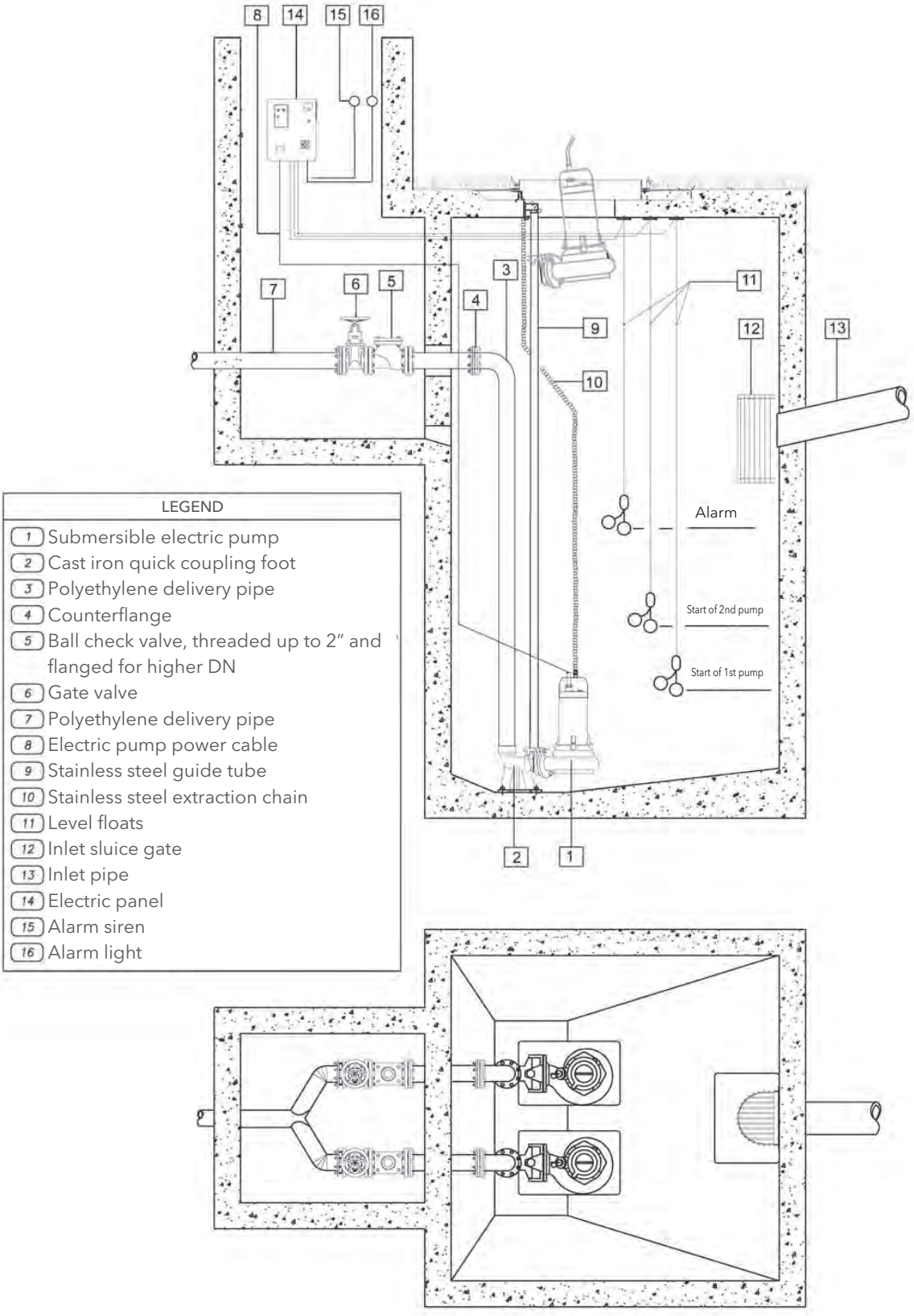


LEGEND

1. Submersible electric pump
2. Cast iron quick coupling foot
3. Polyethylene delivery pipe
4. Counterflange
5. Ball check valve, threaded up to 2" and flanged for higher DN
6. Gate valve
7. Polyethylene delivery pipe
8. Electric pump power cable
9. Stainless steel guide tube
10. Stainless steel extraction chain
11. Level floats
12. Inlet sluice gate
13. Inlet pipe
14. Electric panel
15. Alarm siren
16. Alarm light



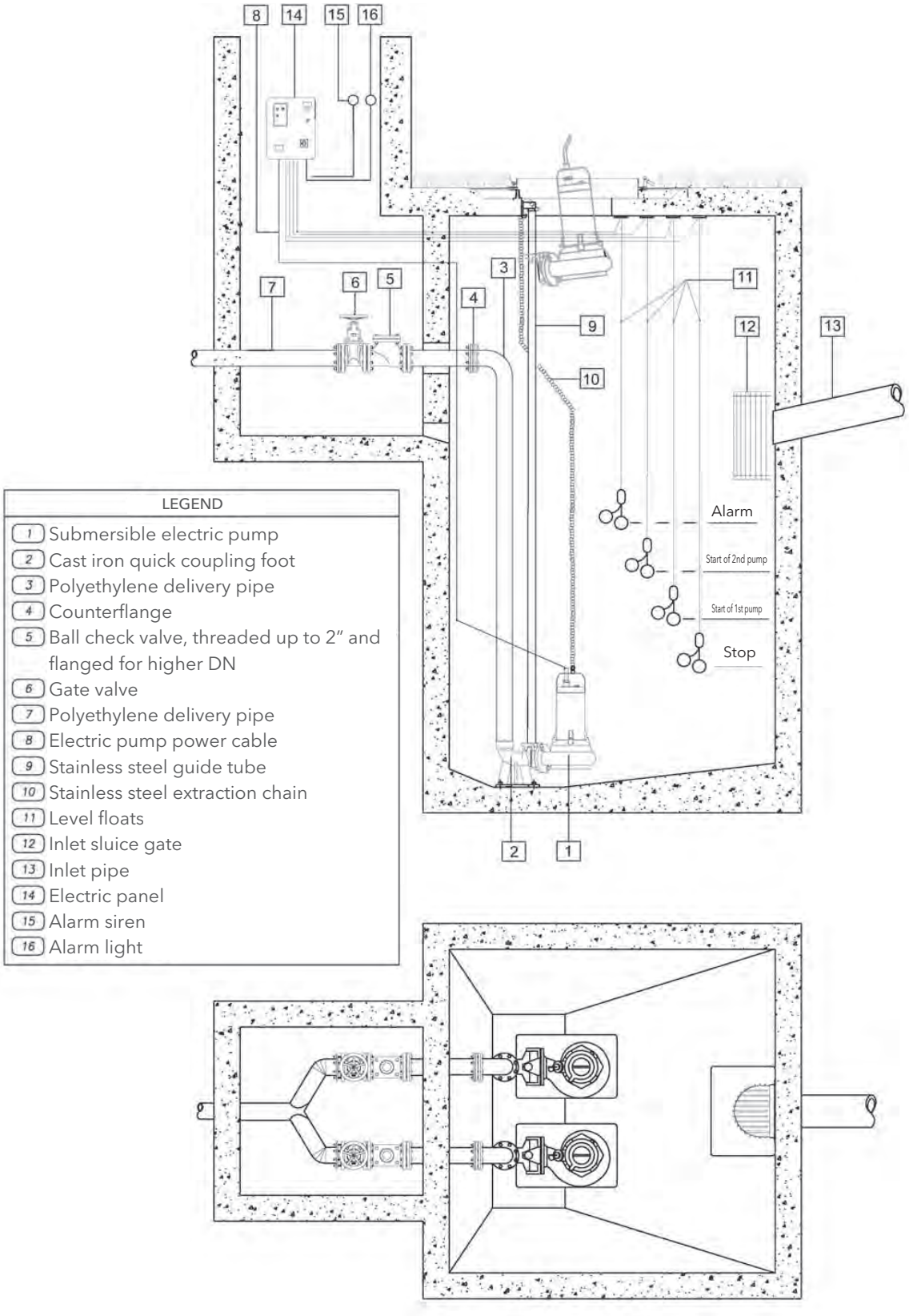
EXAMPLE OF INSTALLATION OF TWO-PUMP SYSTEM WITH THREE FLOATS



LEGEND

1. Submersible electric pump
2. Cast iron quick coupling foot
3. Polyethylene delivery pipe
4. Counterflange
5. Ball check valve, threaded up to 2" and flanged for higher DN
6. Gate valve
7. Polyethylene delivery pipe
8. Electric pump power cable
9. Stainless steel guide tube
10. Stainless steel extraction chain
11. Level floats
12. Inlet sluice gate
13. Inlet pipe
14. Electric panel
15. Alarm siren
16. Alarm light

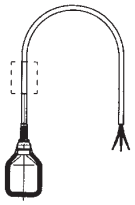
EXAMPLE OF INSTALLATION OF TWO-PUMP SYSTEM PUMP FOUR FLOATS



LEGEND
1 Submersible electric pump
2 Cast iron quick coupling foot
3 Polyethylene delivery pipe
4 Counterflange
5 Ball check valve, threaded up to 2" and flanged for higher DN
6 Gate valve
7 Polyethylene delivery pipe
8 Electric pump power cable
9 Stainless steel guide tube
10 Stainless steel extraction chain
11 Level floats
12 Inlet sluice gate
13 Inlet pipe
14 Electric panel
15 Alarm siren
16 Alarm light

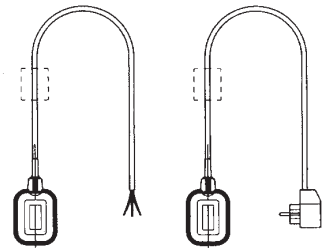
LEVEL CONTROL FLOAT

SMALL MODEL



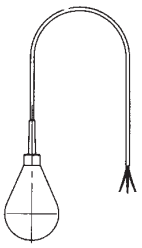
For single function (draining)
cable lenght 1.5, 5, 10 m.
Counterweight available on request for version with 5, 10 m cable.

KEY MODEL



For dual function (draining/filling)
cable lenght 1.5, 5, 10, 20 m.
Counterweight available on request for version with 5, 10 m cable.
Version with plug and socket for single-phase pumps up to 1 kW.

RDN-10 MODEL



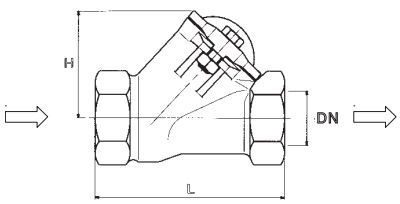
For solids-laden water.
Cable lenght: 15 m. (PVC)

BALL CHECK VALVE FOR SOLIDS-LADEN WATER

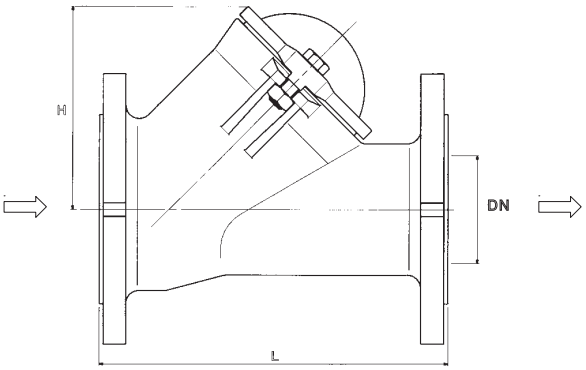
No-clog, maximum reliability, low flow resistance.
Maximum operating pressure: 10 bar.
Maximum temperature: 85°C.
Horizontal or vertical operating position.

MODEL	DIMENSIONS (mm)			WEIGHT
	Ø BALL	L	H	kg
Rp 1 1/4	48	140	80	2
Rp 1 1/2	50	140	80	4
Rp 2	60	200	98	5,5
DN 65	95	230	148	12
DN 80	95	260	148	13
DN 100	120	300	182	18
DN 150	175	400	251	37,5
DN 200	240	500	333	70
DN 250	300	600	406	128

Valv-palla-en_a_td

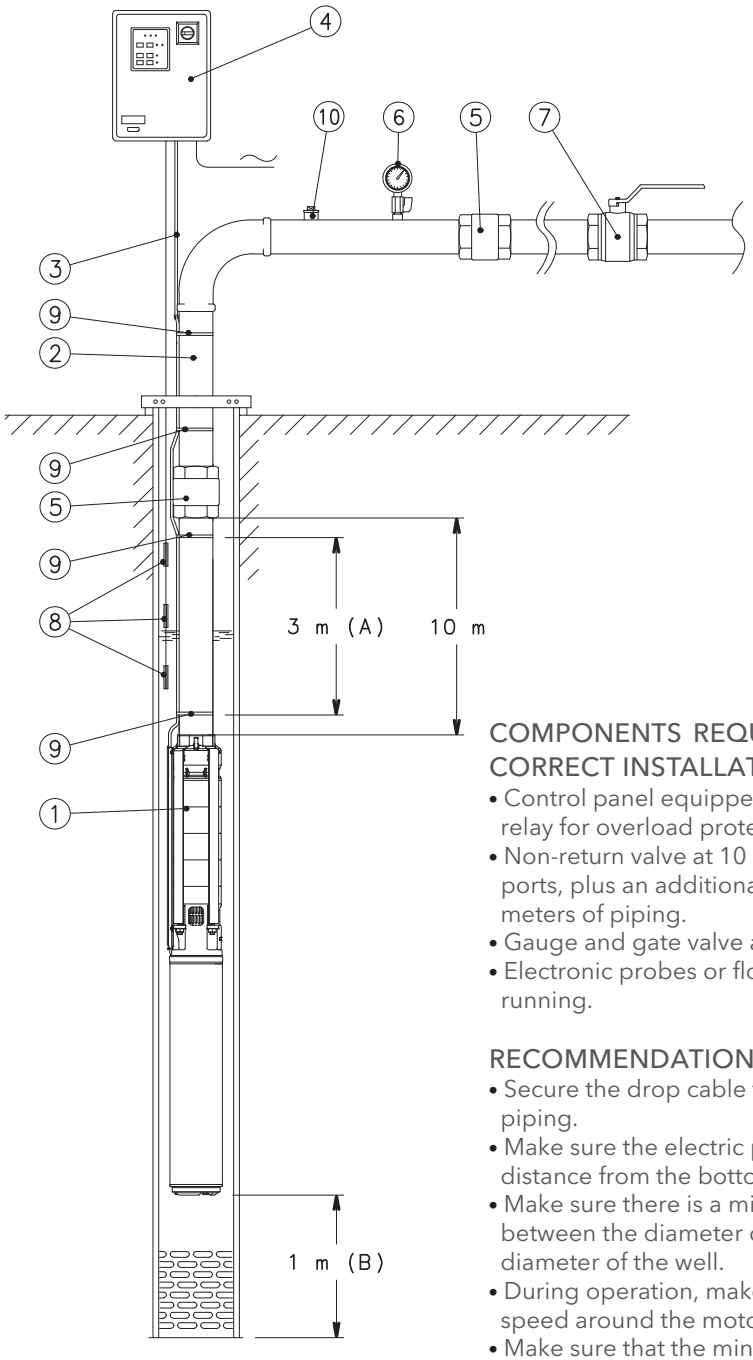


Rp 1 1/4 - 1 1/2 - 2 MODEL



65 - 80 - 100 - 150 - 200 - 250 MODEL

SUBMERSIBLE ELECTRIC PUMP INSTALLATION DIAGRAM



1 - Submersible electric pump.
2 - Delivery pipe.
3 - Drop cable.
4 - Control panel.
5 - Non-return valve.
6 - Gauge.
7 - On/off valve.
8 - Level sensors for protection against dry running.
9 - Cable clamp.
10 - Electric pump bleed/priming cap.

A - Distance between the clamps that secure the drop cable to the delivery pipe.
B - Distance from the bottom of the well to the electric pump.

COMPONENTS REQUIRED FOR CORRECT INSTALLATION

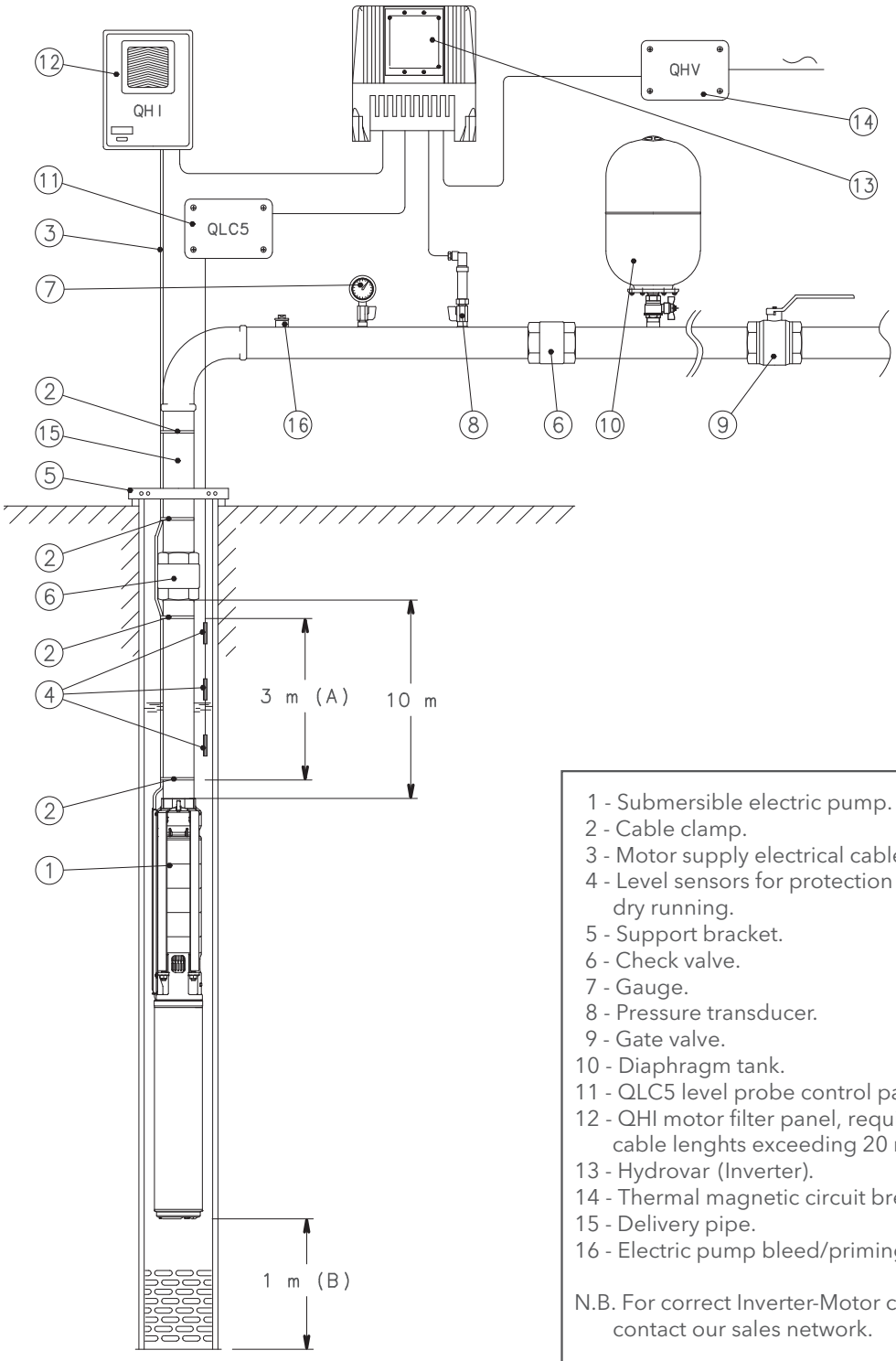
- Control panel equipped with a main switch and thermal relay for overload protection.
- Non-return valve at 10 meters' distance from the delivery ports, plus an additional non-return valve every 30÷50 meters of piping.
- Gauge and gate valve at well mouth.
- Electronic probes or floats for protection against dry running.

RECOMMENDATIONS

- Secure the drop cable to the pipe every 2÷3 meters of piping.
- Make sure the electric pump is installed at a safe distance from the bottom of the well.
- Make sure there is a minimum distance of 3 mm between the diameter of the pump and the internal diameter of the well.
- During operation, make sure that the water circulation speed around the motor is at least 8 cm/sec.
- Make sure that the minimum dynamic level of the water in the well is at least 1 m above the pump's delivery port.

01904_B_SC

EXAMPLE OF INSTALLATION OF A SUBMERSIBLE ELECTRIC PUMP CONTROLLED BY AN INVERTER (HYDROVAR®)



1 - Submersible electric pump.
2 - Cable clamp.
3 - Motor supply electrical cable.
4 - Level sensors for protection against dry running.
5 - Support bracket.
6 - Check valve.
7 - Gauge.
8 - Pressure transducer.
9 - Gate valve.
10 - Diaphragm tank.
11 - QLC5 level probe control panel.
12 - QHI motor filter panel, required for cable lenghts exceeding 20 meters.
13 - Hydrovar (Inverter).
14 - Thermal magnetic circuit breaker (QHV).
15 - Delivery pipe.
16 - Electric pump bleed/priming cap.

N.B. For correct Inverter-Motor coupling, contact our sales network.

01905_C_SC

4OS MOTOR SERIES

TABLE OF POWER REDUCTION COEFFICIENTS WITH INCREASED WATER TEMPERATURE

MOTOR TYPE	RATED POWER kW	TEMPERATURE °C 30	35	40	45	50	55
4OS	all models	1	1	0,9	0,8	0,7	0,6

4OS-derating-50-en_a_te

EXAMPLE:
A 2,2 kW 4OS motor is to be used in 50°C water.
Motor power at 50 °C = 2,2 x 0,7 = 1,54 kW

L4C MOTOR SERIES

TABLE OF POWER REDUCTION COEFFICIENTS WITH INCREASED WATER TEMPERATURE

MOTOR TYPE	RATED POWER kW	TEMPERATURE °C 30	35	40	45	50	55
L4C	all models	1	1	0,95	0,9	0,85	0,8

L4c-derating-50-en_b_te

EXAMPLE:
A 2,2 kW L4C motor is to be used in 50°C water.
Motor power at 50 °C = 2,2 x 0,85 = 1,87 kW

L6C MOTOR SERIES

TABLE OF POWER REDUCTION COEFFICIENTS WITH INCREASED WATER TEMPERATURE

MOTOR TYPE	RATED POWER kW	TEMPERATURE °C 35	40	45	50	55	60
L6C	all models	1	0,95	0,8	0,75	0,7	0,6

L6c-derating-50-en_b_te

EXAMPLE:
A 7,5 kW L6C motor is to be used in 45°C water.
Motor power at 50 °C = 7,5 x 0,8 = 6 kW

L6W - L8W - L10W - L12W MOTOR SERIES

TABLE OF POWER REDUCTION COEFFICIENTS WITH INCREASED WATER TEMPERATURE

MOTOR TYPE	RATED POWER kW	TEMPERATURE °C 25	30	35	40	45	50	55	60
STD	all models	1	1	0,75	-	-	-	-	-
HT	all models	1	1	1	1	1	0,85	0,75	0,65

(1) Standard winding for water temperature up to 35 °C.

Lw-derating-en_a_te

(2) Special winding for water temperature from 35 °C to 60 °C.

EXAMPLE:
A 15 kW L6W motor is to be used in 35°C water.
Motor power at 35 °C = 15 x 0,75 = 11,25 kW

SELECTING CABLE CROSS-SECTIONS FOR SUBMERSIBLE MOTORS

To select the cross-section of power cables for submersible pumps, consult the tables shown below. In these tables, the maximum lenghts of the power cable for each cross-section are shown for each motor and next to the various input voltage ratings.
Therefore, to find the required cable cross-section, simply read off the maximum permitted lenghts for each crosssection next to the selected motor and required input voltage.

E.g.:
A 120 m long power cable must be matched with a 230V L4C07M235 motor.
To determine the cross-section of the cable, simply move along the row of the 230V motor until you find the maximum lenght of 120 m or immediately above it and then read off the corresponding cross-section in that column.
In this case, the 4 mm2 cable is selected.
N.B.: the tables include specific data (current and power factor) for each motor and voltage rating based on a maximum voltage drop of 4% (HD 384.5), a maximum cable temperature of 90°C, water installation similar to air installation at a temperature of 30°C.

CABLE TYPES

SECTION	THREE CORE FLAT					FOUR CORE FLAT					SINGLE CORE ROUND			FOUR CORE ROUND		
	Hmin	Lmin	Hmax	Lmax	Weight	Hmin	Lmin	Hmax	Lmax	Weight	Dmin	Dmax	Weight	Dmin	Dmax	Weight
mm^2	mm	mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
4	8	19,2	9	20,8	250	8	25,2	9	26,8	395	6,5	7,5	92	14	16,1	360
6	8	19,2	9	20,8	325	8	25,2	9	26,8	470	7,4	8	118	15,7	18	475
10	8	19,2	9	20,8	535	8	25,2	9	26,8	710	8,6	10	183	20,9	23,9	836
16	-	-	-	-	-	-	-	-	-	-	9,6	11	251	23,8	27,1	1145
25	-	-	-	-	-	-	-	-	-	-	11	13	362	28,9	32,9	1716
35	-	-	-	-	-	-	-	-	-	-	12,5	14,5	497	-	-	-
50	-	-	-	-	-	-	-	-	-	-	15	17	669	-	-	-
70	-	-	-	-	-	-	-	-	-	-	17,5	19,5	901	-	-	-
95	-	-	-	-	-	-	-	-	-	-	20,5	22,5	1141	-	-	-
120	-	-	-	-	-	-	-	-	-	-	22	24,4	1435	-	-	-
150	-	-	-	-	-	-	-	-	-	-	25,2	28,3	1795	-	-	-
185	-	-	-	-	-	-	-	-	-	-	27,6	31	2156	-	-	-
240	-	-	-	-	-	-	-	-	-	-	30,6	34,5	2760	-	-	-

L-cavi-en_a_td

4OS SINGLE-PHASE, 50 Hz
Sizing of ethylene-propilene (EPR) cables, DOL (direct on line) starting

MOTOR TYPE SINGLE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm²	1,5	2,5	4	6	10	16	25	35
							A max	23	32	42	54	75	100	127	158
							Maximum lenght in metres								
4OS03M235	0,37	0,5	220	0,98	3,01			107	179	288	432				
			230	0,96	3,06										
			240	0,93	3,16										
4OS05M235	0,55	0,75	220	0,98	4,07			79	132	213	319				
			230	0,96	4,13										
			240	0,92	4,25										
4OS07M235	0,75	1	220	0,99	5,44			58	98	158	237	409			
			230	0,97	5,45										
			240	0,94	5,58										
4OS11M235	1,1	1,5	220	0,99	7,45			42	71	115	172	298	469		
			230	0,98	7,37	4									
			240	0,95	7,55										
4OS15M235	1,5	2	220	0,98	10,0			31	53	86	129	223	351	542	
			230	0,96	10,1										
			240	0,92	10,5										
4OS22M235	2,2	3	220	0,99	14,3			20	36	58	89	154	244	377	528
			230	0,97	14,1										
			240	0,94	14,4										
4OS40M235	4	5,5	220	0,96	25,7			-	18	31	49	86	137	212	296
			230	0,94	24,9										
			240	0,92	24,8										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

4osm-b-cavi-50-en_c_te

4OS THREE-PHASE, 50 Hz
Sizing of ethylene-propilene (EPR) cables, DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm²	1,5	2,5	4	6	10	16	25	35
							A max	23	32	42	54	75	100	127	158
							Maximum lenght in metres								
4OS03T235	0,37	0,5	220	0,78	2,04			229	381						
			230	0,72	2,08										
			240	0,68	2,15										
4OS05T235	0,55	0,75	220	0,80	2,79			163	271						
			230	0,75	2,86										
			240	0,71	2,96										
4OS07T235	0,75	1	220	0,78	3,76			124	206	331					
			230	0,71	3,95										
			240	0,67	4,16										
4OS11T235	1,1	1,5	220	0,80	5,06			89	149	240	358				
			230	0,74	5,18										
			240	0,70	5,42										
4OS15T235	1,5	2	220	0,78	6,95			66	110	178	266	455			
			230	0,72	7,24										
			240	0,68	7,64										
4OS22T235	2,2	3	220	0,80	9,72			45	76	123	185	317			
			230	0,74	10,0										
			240	0,69	10,5										
4OS30T235	3	4	220	0,85	12,1			33	57	93	140	241	376		
			230	0,81	12,0										
			240	0,77	12,3										
4OS40T235	4	5,5	220	0,85	16,4			23	41	67	102	177	277		
			230	0,80	16,5										
			240	0,76	17,0										
4OS55T235	5,5	7,5	220	0,83	22,9			-	28	48	73	128	201	306	
			230	0,78	23,0										
			240	0,73	23,7										
4OS75T235	7,5	10	220	0,82	31,0			-	19	34	53	94	148	227	314
			230	0,76	31,4										
			240	0,71	32,4	4									
4OS03T405	0,37	0,5	380	0,78	1,18			685							
			400	0,72	1,20										
			415	0,68	1,24										
4OS05T405	0,55	0,75	380	0,80	1,61			489							
			400	0,75	1,65										
			415	0,71	1,71										
4OS07T405	0,75	1	380	0,78	2,20			367							
			400	0,71	2,30										
			415	0,67	2,40										
4OS11T405	1,1	1,5	380	0,80	2,90			271	451						
			400	0,74	3,00										
			415	0,70	3,10										
4OS15T405	1,5	2	380	0,78	4,00			201	334						
			400	0,72	4,20										
			415	0,68	4,40										
4OS22T405	2,2	3	380	0,80	5,60			139	232	374					
			400	0,74	5,80										
			415	0,69	6,10										
4OS30T405	3	4	380	0,85	7,00			104	174	281	421				
			400	0,81	7,00										
			415	0,77	7,10										
4OS40T405	4	5,5	380	0,85	9,50			75	127	206	309				
			400	0,80	9,50										
			415	0,76	9,80										
4OS55T405	5,5	7,5	380	0,83	13,2			53	92	150	226	389			
			400	0,78	13,3										
			415	0,73	13,7										
4OS75T405	7,5	10	380	0,82	17,9			37	66	109	166	288	451		
			400	0,76	18,1										
			415	0,71	18,7										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

L4C SINGLE-PHASE, 50 Hz
Sizing of ethylene-propilene (EPR) cables, DOL (direct on line) starting

MOTOR TYPE	RATED POWER		RATED VOLTAGE	Cos φ	RATED CURRENT	VOLTAGE DROP	Cable cross section: 4G x ...mm²							
							mm²	1,5	2,5	4	6	10	16	25	35
							A max	23	32	42	54	75	100	127	158
SINGLE-PHASE	Kw	HP	V		A	%	Maximum lenght in metres								
L4C03M235	0,37	0,5	220	0,96	3,20			103	172	278	416				
			230	0,97	3,30										
			240	0,91	3,40										
L4C05M235	0,55	0,75	220	0,95	4,30			76	127	205	307				
			230	0,94	4,60										
			240	0,90	4,80										
L4C07M235	0,75	1	220	0,93	6,00			57	96	155	232	398			
			230	0,92	6,20										
			240	0,85	6,50										
L4C11M235	1,1	1,5	220	0,94	8,10			40	68	110	166	286	448		
			230	0,92	8,10	4									
			240	0,87	8,30										
L4C15M235	1,5	2	220	0,96	10,4			30	52	84	126	218	343	527	
			230	0,93	10,4										
			240	0,90	10,7										
L4C22M235	2,2	3	220	0,96	15,4			19	34	56	84	146	231	355	496
			230	0,94	15,0										
			240	0,91	15,3										
L4C40M235	4	5,5	220	0,93	29,9			-	15	27	42	75	120	185	259
			230	0,90	29,8										
			240	0,87	29,7										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l4cm-cavi-50-en_d_te

L4C THREE-PHASE, 50 Hz
Sizing of ethylene-propilene (EPR) cables, DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x …mm² mm²	1,5	2,5	4	6	10	16	25	35
							A max	23	32	42	54	75	100	127	158
							Maximum lenght in metres								
			220	0,69	2,60										
L4C03T235	0,37	0,5	230	0,70	2,70			190	316						
			240	0,67	3,10										
			220	0,77	3,10										
L4C05T235	0,55	0,75	230	0,71	3,30			152	253	407					
			240	0,66	3,50										
			220	0,77	4,00										
L4C07T235	0,75	1	230	0,73	4,10			118	196	315					
			240	0,66	4,50										
			220	0,80	5,60										
L4C11T235	1,1	1,5	230	0,76	5,70			80	134	216	323				
			240	0,73	6,20										
			220	0,77	7,40										
L4C15T235	1,5	2	230	0,72	7,60			62	105	169	253	433			
			240	0,68	8,00										
			220	0,80	10,0										
L4C22T235	2,2	3	230	0,78	10,2			43	74	120	180	308			
			240	0,70	10,7										
			220	0,77	13,7										
L4C30T235	3	4	230	0,71	14,3			32	55	90	135	232	362		
			240	0,68	15,2										
			220	0,81	16,4										
L4C40T235	4	5,5	230	0,79	17,3			24	43	71	108	187	292	443	
			240	0,74	18,2										
			220	0,79	23,4										
L4C55T235	5,5	7,5	230	0,74	24,2			-	29	49	75	131	205	312	
			240	0,70	25,0										
			380	0,69	1,50										
L4C03T405	0,37	0,5	400	0,70	1,60	4		569							
			415	0,67	1,80										
			380	0,77	1,80										
L4C05T405	0,55	0,75	400	0,71	1,90			454							
			415	0,66	2,00										
			380	0,77	2,30										
L4C07T405	0,75	1	400	0,73	2,40			355							
			415	0,66	2,60										
			380	0,80	3,30										
L4C11T405	1,1	1,5	400	0,76	3,40			238	396						
			415	0,73	3,60										
			380	0,77	4,30										
L4C15T405	1,5	2	400	0,72	4,40			189	315						
			415	0,68	4,60										
			380	0,80	5,80										
L4C22T405	2,2	3	400	0,78	5,90			134	224	361					
			415	0,70	6,20										
			380	0,77	7,90										
L4C30T405	3	4	400	0,71	8,30			101	169	273	409				
			415	0,68	8,80										
			380	0,81	9,50										
L4C40T405	4	5,5	400	0,79	10,0			80	136	221	331				
			415	0,74	10,5										
			380	0,79	13,5										
L4C55T405	5,5	7,5	400	0,74	14,0			54	94	153	231	398			
			415	0,70	14,5										
			380	0,84	17,0										
L4C75T405	7,5	10	400	0,79	17,4			-	68	113	172	297	466		
			415	0,75	18,1										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l4c-cavi-50-en_d_te

L6C, 50 Hz
Sizing of ethylene-propilene (EPR) cables DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm²	4	6	10	16	25	35	50	70
							A max	42	54	75	100	127	158	192	246
							Maximum lenght in metres								
L6C40T235	4	5,5	220	0,80	17,8			65	99	171	268	406	559		
			230	0,75	18,4										
			240	0,70	19,1										
L6C55T235	5,5	7,5	220	0,80	24,1			47	72	125	197	300	413	572	
			230	0,75	24,2										
			240	0,71	25,3										
L6C75T235	7,5	10	220	0,82	30,5			34	54	95	151	231	320	444	
			230	0,78	31,2										
			240	0,73	31,7										
L6C93T235	9,3	12,5	220	0,82	37,6			26	42	76	121	186	258	359	489
			230	0,80	38,1										
			240	0,79	39,5										
L6C110T235	11	15	220	0,87	43,3			-	33	61	99	153	214	299	412
			230	0,82	44,2										
			240	0,79	45,0										
L6C150T235	15	20	220	0,84	58,0			-	-	44	73	115	161	226	311
			230	0,80	57,9										
			240	0,76	59,2										
L6C185T235	18,5	25	220	0,83	70,1			-	-	35	59	94	133	187	257
			230	0,80	71,0										
			240	0,73	72,7										
L6C220T235	22	30	220	0,88	82,3			-	-	-	46	74	106	152	212
			230	0,84	81,4										
			240	0,80	82,3										
L6C40T405	4	5,5	380	0,80	10,3	4		201	301	517					
			400	0,75	10,6										
			415	0,70	11,0										
L6C55T405	5,5	7,5	380	0,80	13,9			147	222	382					
			400	0,75	14,0										
			415	0,71	14,6										
L6C75T405	7,5	10	380	0,82	17,6			112	169	293	459				
			400	0,78	18,0										
			415	0,73	18,3										
L6C93T405	9,3	12,5	380	0,82	21,7			88	135	236	371	565			
			400	0,80	22,0										
			415	0,79	22,8										
L6C110T405	11	15	380	0,87	25,0			71	110	193	305	466			
			400	0,82	25,5										
			415	0,79	26,0										
L6C150T405	15	20	380	0,84	33,5			51	81	145	231	355	493		
			400	0,80	33,4										
			415	0,76	34,2										
L6C185T405	18,5	25	380	0,83	40,5			-	65	119	191	294	409		
			400	0,80	41,0										
			415	0,73	42,0										
L6C220T405	22	30	380	0,88	47,5			-	50	94	153	237	332	467	
			400	0,84	47,0										
			415	0,80	47,5										
L6C300T405	30	40	380	0,89	63,0			-	-	65	109	173	245	346	480
			400	0,85	61,5										
			415	0,80	63,5										
L6C370T405	37	50	380	0,87	79,5			-	-	-	84	135	193	274	381
			400	0,84	79,3										
			415	0,80	80,0										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l6c-cavi-50-en_f_te

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L6C, 50 Hz
Sizing of ethylene-propilene (EPR) cables Y/Δ (star / delta) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² + 3 x ...mm²								
							mm²	4	6	10	16	25	35	50	70
							A max*	73	94	130	173	220	274	333	426
							Maximum lenght in metres								
L6C40T405	4	5,5	380	0,80	10,3	4		352	525						
			400	0,75	10,6										
			415	0,70	11,0										
L6C55T405	5,5	7,5	380	0,80	13,9			259	388						
			400	0,75	14,0										
			415	0,71	14,6										
L6C75T405	7,5	10	380	0,82	17,6			199	299	513					
			400	0,78	18,0										
			415	0,73	18,3										
L6C93T405	9,3	12,5	380	0,82	21,7			160	241	415					
			400	0,80	22,0										
			415	0,79	22,8										
L6C110T405	11	15	380	0,87	25,0			130	197	340	533				
			400	0,82	25,5										
			415	0,79	26,0										
L6C150T405	15	20	380	0,84	33,5			98	150	260	408				
			400	0,80	33,4										
			415	0,76	34,2										
L6C185T405	18,5	25	380	0,83	40,5			80	123	216	340	518			
			400	0,80	41,0										
			415	0,73	42,0										
L6C220T405	22	30	380	0,88	47,5			63	98	173	274	421			
			400	0,84	47,0										
			415	0,80	47,5										
L6C300T405	30	40	380	0,89	63,0			44	70	126	202	312	435		
			400	0,85	61,5										
			415	0,80	63,5										
L6C370T405	37	50	380	0,87	79,5			-	53	99	160	248	347	487	
			400	0,84	79,3										
			415	0,80	80,0										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l6c-cavi-SD-50-en_b_te

*A max is the maximum rated current of the motor

L6W, 50 Hz
Sizing of ethylene-propilene (EPR) cables DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm2	4	6	10	16	25	35	50	70
							A max	42	54	75	100	127	158	192	246
							Maximum lenght in metres								
L6W40T405	4	5,5	380	0,90	9,89	4		187	281	484					
			415	0,85	9,13										
L6W55T405	5,5	7,5	380	0,88	12,7			148	222	384					
			415	0,82	12,5										
L6W75T405	7,5	10	380	0,90	17,0			106	161	279	439				
			415	0,84	16,2										
L6W93T405	9,3	12,5	380	0,89	20,5			87	133	233	366	561			
			415	0,83	19,9										
L6W110T405	11	15	380	0,90	24,2			71	110	194	306	470			
			415	0,84	23,4										
L6W130T405	13	17,5	380	0,90	28,1			60	93	165	262	403	561		
			415	0,85	27,0										
L6W150T405	15	20	380	0,88	32,1			52	82	146	233	358	498		
			415	0,82	31,3										
L6W185T405	18,5	25	380	0,89	38,5			-	65	118	190	294	410		
			415	0,83	37,5										
L6W220T405	22	30	380	0,87	47,3			-	51	95,1	155	241	337	472	
			415	0,80	46,7										
L6W260T405	26	35	380	0,85	56,5			-	-	78	129	202	284	398	
			415	0,79	55,7										
L6W300T405	30	40	380	0,87	63,8			-	-	66	110	174	245	346	479
			415	0,81	62,0										
L6W370T405	37	50	380	0,86	81,8			-	-	-	82	132	188	267	372
			415	0,80	79,4										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l6w-cavi-50-en_c_te

L6W, 50 Hz
Sizing of ethylene-propilene (EPR) cables Y/Δ (star / delta) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² + 3 x ...mm²								
							mm²	4	6	10	16	25	35	50	70
							A max*	73	94	130	173	220	274	333	426
							Maximum lenght in metres								
L6W40T405	4	5,5	380	0,90	9,89	4		327	490						
			415	0,85	9,13										
L6W55T405	5,5	7,5	380	0,88	12,7			260	389						
			415	0,82	12,5										
L6W75T405	7,5	10	380	0,90	17,0			189	283	488					
			415	0,84	16,2										
L6W93T405	9,3	12,5	380	0,89	20,5			157	237	408					
			415	0,83	19,9										
L6W110T405	11	15	380	0,90	24,2			131	197	341	535				
			415	0,84	23,4										
L6W130T405	13	17,5	380	0,90	28,1			111	169	293	460				
			415	0,85	27,0										
L6W150T405	15	20	380	0,88	32,1			99	150	261	410				
			415	0,82	31,3										
L6W185T405	18,5	25	380	0,89	38,5			80	122	214	337	517			
			415	0,83	37,5										
L6W220T405	22	30	380	0,87	47,3			64	99,5	176	278	426			
			415	0,80	46,7										
L6W260T405	26	35	380	0,85	56,5			53	83	148	236	362	502		
			415	0,79	55,7										
L6W300T405	30	40	380	0,87	63,8			44	70,2	127	203	313	436		
			415	0,81	62,0										
L6W370T405	37	50	380	0,86	81,8			-	52	96	157	243	340	476	
			415	0,80	79,4										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l6w-cavi-SD-50-en_c_te

*A max is the maximum rated current of the motor

L8W, 50 Hz
Sizing of ethylene-propilene (EPR) cables DOL (direct on line) starting

MOTOR TYPE	RATED POWER		RATED VOLTAGE	Cos φ	RATED CURRENT	VOLTAGE DROP	Cable cross section: 4G x ...mm²								
							mm2	10	1 6	25	35	50	70	95	120
							A max	75	100	127	158	192	246	298	346
THREE-PHASE	Kw	HP	V		A	%	Maximum lenght in metres								
L8W300T405	30	40	380	0,85	65,0	4		65	110	173	244	344	475		
			415	0,84	59,0										
L8W370T405	37	50	380	0,87	81,0			47	82	132	189	268	374	476	
			415	0,83	76,0										
L8W450T405	45	60	380	0,87	92,0			-	69	113	163	233	327	417	516
			415	0,83	88,5										
L8W520T405	52	70	380	0,86	110			-	-	91	133	192	271	347	430
			415	0,82	104										
L8W550T405	55	75	380	0,87	118			-	-	82	121	176	250	321	399
			415	0,83	110										
L8W600T405	60	80	380	0,87	124			-	-	77	114	166	236	305	378
			415	0,83	118										
L8W670T405	67	90	380	0,88	138			-	-	-	98	145	208	270	337
			415	0,83	132										
L8W750T405	75	100	380	0,87	156			-	-	-	84	125	182	237	296
			415	0,82	148										
L8W830T405	83	110	380	0,87	172			-	-	-	-	111	162	212	266
			415	0,82	163										
L8W930T405	93	125	380	0,87	192			-	-	-	-	95	142	187	236
			415	0,83	180										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l8w-cavi-50-en_b_te

L8W, 50 Hz
Sizing of ethylene-propilene (EPR) cables Y/Δ (star / delta) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² + 3 x ...mm²								
							mm²	6	10	16	25	35	50	70	95
							A max*	94	130	173	220	274	333	426	516
							Maximum lenght in metres								
L8W300T405	30	40	380	0,85	65,0	4		70	127	203	313	435			
			415	0,84	59,0										
L8W370T405	37	50	380	0,87	81,0			52	96	157	244	341	478		
			415	0,83	76,0										
L8W450T405	45	60	380	0,87	92,0			44	83	136	212	298	419		
			415	0,83	88,5										
L8W520T405	52	70	380	0,86	110			-	67	112	176	248	350	484	
			415	0,82	104										
L8W550T405	55	75	380	0,87	118			-	60	102	161	228	323	447	
			415	0,83	110										
L8W600T405	60	80	380	0,87	124			-	56	96	152	216	306	425	541
			415	0,83	118										
L8W670T405	67	90	380	0,88	138			-	-	83	133	191	271	378	483
			415	0,83	132										
L8W750T405	75	100	380	0,87	156			-	-	71	116	167	239	334	427
			415	0,82	148										
L8W830T405	83	110	380	0,87	172			-	-	62,2	103	149	214	301	385
			415	0,82	163										
L8W930T405	93	125	380	0,87	192			-	-	53	89	131	189	267	343
			415	0,83	180										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l8w-cavi-SD-50-en_b_te

*A max is the maximum rated current of the motor

L10W, 50 Hz
Sizing of ethylene-propilene (EPR) cables DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm2	35	50	70	95	120	150	185	240
							A max	158	192	246	298	346	399	456	538
							Maximum lenght in metres								
L10W930T405	93	125	380	0,87	191	4		-	96	143	188	237	286	336	411
			415	0,84	180										
L10W1100T405	110	150	380	0,86	235			-	-	110	147	187	228	268	329
			415	0,82	220										
L10W1300T405	130	175	380	0,86	270			-	-	-	124	159	194	230	283
			415	0,83	255										
L10W1500T405	150	200	380	0,86	308			-	-	-	-	135	166	198	245
			415	0,84	285										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l10w-cavi-50-en_b_te

L10W, 50 Hz
Sizing of ethylene-propilene (EPR) cables Y/Δ (star / delta) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² + 3 x ...mm² mm²	25	35	50	70	95	120	150	185
							A max*	220	274	333	426	516	599	691	790
							Maximum lenght in metres								
L10W930T405	93	125	380	0,87	191	4		90	132	191	269	345	428	511	
			415	0,84	180										
L10W1100T405	110	150	380	0,86	235			-	102	150	215	278	345	412	480
			415	0,82	220										
L10W1300T405	130	175	380	0,86	270			-	85	127	183	238	297	356	415
			415	0,83	255										
L10W1500T405	150	200	380	0,86	308			-	-	107	157	205	257	310	362
			415	0,84	285										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l10w-cavi-SD-50-en_b_te

*A max is the maximum rated current of the motor

L12W, 50 Hz
Sizing of ethylene-propilene (EPR) cables DOL (direct on line) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² mm2	50	70	95	120	150	185	240	300
							A max	192	246	298	346	399	456	538	621
							Maximum lenght in metres								
L12W1850T405	185	250	380	0,87	380	4		-	-	-	-	127	154	194	229
			415	0,86	360										
L12W2200T405	220	300	380	0,86	470			-	-	-	-	-	-	150	179
			415	0,83	435										
L12W2600T405	260	350	380	0,87	525			-	-	-	-	-	-	131	158
			415	0,83	498										
L12W3000T405	300	400	380	0,87	620			-	-	-	-	-	-	-	128
			415	0,84	570										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l12w-cavi-50-en_b_te

L12W, 50 Hz
Sizing of ethylene-propilene (EPR) cables Y/Δ (star / delta) starting

MOTOR TYPE THREE-PHASE	RATED POWER Kw	RATED POWER HP	RATED VOLTAGE V	Cos φ	RATED CURRENT A	VOLTAGE DROP %	Cable cross section: 4G x ...mm² + 3 x ...mm² mm²	50	70	95	120	150	185	240	300
							A max*	333	426	516	599	691	790	932	1076
							Maximum lenght in metres								
L12W1850T405	185	250	380	0,87	380	4		-	120	160	203	246	289	355	413
			415	0,86	360										
L12W2200T405	220	300	380	0,86	470			-	-	123	158	193	229	282	329
			415	0,83	435										
L12W2600T405	260	350	380	0,87	525			-	-	-	137	169	202	251	294
			415	0,83	498										
L12W3000T405	300	400	380	0,87	620			-	-	-	-	138	166	208	245
			415	0,84	570										

Exposed cable laid at a temperature of 30°C, maximum conductor temperature of 90°C

l12w-cavi-SD-50-en_b_te

*A max is the maximum rated current of the motor

JOINT BETWEEN DROP CABLE AND MOTOR CABLE

MOTOR TYPE	POWER kW	TYPE OF JOINT	FOUR-CORE DROP CABLE - SECTION (mm^2)															
			1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
4OS L4C	0,37 - 7,5	Resin-filled method	GR2	GR2	GR2 GR6	GR2 GR6	GR2 GR6	GR6 GR7	GR6 GR7	GR7 GR5	GR5	GR5	GR5	-	-	-	-	-
		Heat-shrink method	GT1	GT1	GT2	GT2	GT3	GT4	GT5	GT6	-	-	-	-	-	-	-	-
		Tape method	Self-vulcanizing tape + self-vulcanizing sealing putty and PVC tape (1)															
L6C L6W	4 - 37	Resin-filled method	GR2	GR2	GR2 GR6	GR2 GR6	GR2 GR6	GR6 GR7	GR6 GR7	GR7 GR5	GR5	GR5	GR5	-	-	-	-	-
		Heat-shrink method	GT1	GT1	GT2	GT2	GT3	GT4	GT5	GT6	-	-	-	-	-	-	-	-
		Tape method	Self-vulcanizing tape + self-vulcanizing sealing putty and PVC tape (1)															

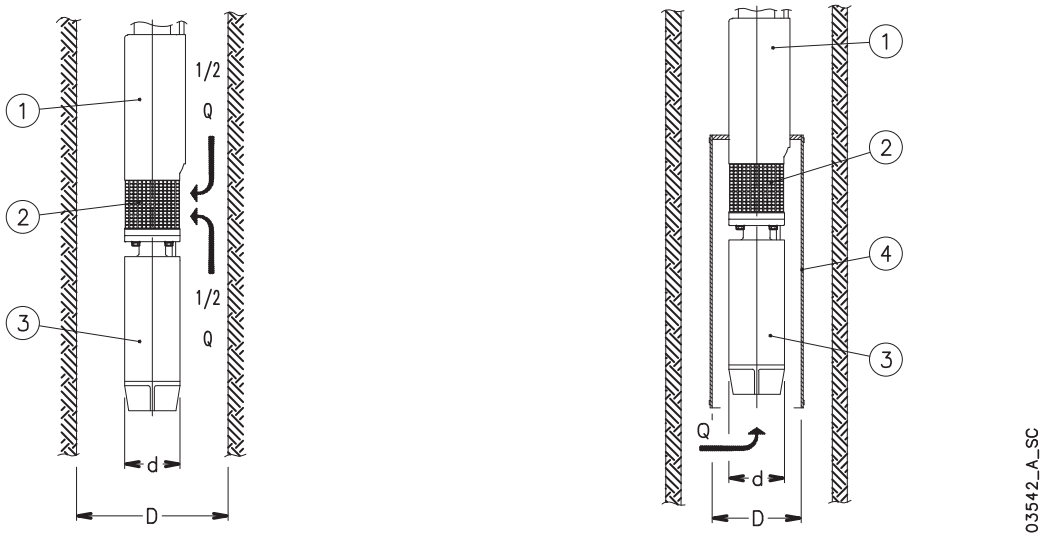
MOTOR TYPE	POWER kW	TYPE OF JOINT	THREE-CORE DROP CABLE - SECTION (mm^2)															
			1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
L6C L6W	4 - 37	Resin-filled method	GR2	GR2	GR2	GR2 GR6	GR2 GR6	GR2 GR6	GR6 GR7	GR6 GR7	GR7 GR5	GR5	GR5	-	-	-	-	-
		Heat-shrink method	GT1	GT1	GT2	GT2	GT3	GT4	GT5	GT6	-	-	-	-	-	-	-	-
		Tape method	Self-vulcanizing tape + PVC tape															

MOTOR TYPE	POWER kW	TYPE OF JOINT	SINGLE-CORE DROP CABLE - SECTION (mm^2)															
			1,5	2,5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
L8W L10W L12W	30 - 300	Resin-filled method	-	GR1	GR1	GR1	GR1	GR1	GR1 GR3	GR1 GR3	GR1 GR3	GR3 GR4	GR3 GR4	GR3 GR4	GR3 GR4	GR3 GR4	GR4	GR4
		Heat-shrink method	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Tape method	Self-vulcanizing tape + PVC tape															

(1) Use self-vulcanizing sealing putty to fill in the gaps between the three-conductor cable and the ground cable in the area covered by the final layer of tape, to restore continuity to the protective sheath.

L-giunzioni-en_c_te

CALCULATING THE SPEED OF THE FLUID THAT FLOWS AROUND A SUBMERGED MOTOR AND SIZING OF THE COOLING SLEEVE



The following formula is used to verify whether the speed of the fluid that flows around the motor of a submersible pump is hig enough to guarantee the proper cooling of the motor:

$$v = \frac{\frac{Q}{2}}{\pi \cdot (\frac{D^2}{4} - \frac{d^2}{4})}$$

Where: Q in [m³/s] is the operating flow rate of the electric pump; only half of this flow is taken into account, because the fluid which is sucked into the area of the filter (2), comes from the motor side (3) as well as from the pump side (1);
D in [m] corresponds to the diameter of the well;
d in [m] corresponds to the diameter of the motor (3);
v in [m/s] is the calculated speed of the fluid that flows around the motor.

Now, compare the speed thus calculated (v) with the minimum speed required for correct cooling of the motor (v_m): if $v \geq v_m$ it means that the motor is properly cooled, if $v < v_m$ will be necessary to mount a cooling sleeve (4).

Example:

An electric pump OZ630/12 (motor diameter d = 0.144 m) operates in an 8" well (well diameter D = 0.203 m) with flow rate Q = 20 m³/h = 0.0055 m³/s.

Speed of fluid v = (0.0055/2) / {π·[(0.203)²/4 – (0.144)²/4]} = 0.17 m/s.

The minimum speed required for proper motor cooling is v_m = 0.20 m/s.

Because $v < v_m$, it will be necessary to mount a cooling sleeve.

The following formula is used to determine the maximum diameter of a cooling sleeve to be mounted on a submersible motor:

$$D = \sqrt{4 \cdot \left(\frac{Q}{v \cdot \pi} + \frac{d^2}{4}\right)}$$

Where: Q in [m³/s] is the operating flow rate of the electric pump; the entire flow is taken into account because the fluid comes from the motor side (3) only;
D in [m] corresponds to the diameter of the cooling sleeve (4);
d in [m] corresponds to the diameter of the motors(3);
v_m in [m/s] is the minimum speed of the fluid that flows around the motor.

If the electric pump operates at different flow rate, the minimum flow rate must be taken into account for calculating the diameter of the cooling sleeve.

Example:

A motor coupled to the electric pump OZ615/24 (motor diameter d = 0.144 m), which operates with flow rate Q = 15 m³/h = 0.0042 m³/s, requires a minimum speed of the fluid of v_m = 0.20 m/s.

Cooling sleeve diameter D = $\{4 \cdot [(0.0042/(0.2 \cdot \pi) + (0.144)^2/4]\}^{0.5}$ = 0.217 m.

Direct
Suitable for low-power motors.
The starting current (Is) is much higher than the rated current (In).
Starting current Is = In x 4 ÷ 8
Starting torque Ts = Tn x 2 ÷ 3

Indirect
• Star/Delta
The starting current (Is) is three times less than the direct starting current.
Starting current Is = In x 1.3 ÷ 2.7
Starting torque Ts = Tn x 0.7 ÷ 1
In the star to delta changeover phase (approx. 70 ms) the motor is not supplied and tends to reduce its rotation speed.
In the case of submersible electric pumps with power above 10 HP, the modest mass of the rotor causes a slowdown at changeover, so that the initial Star supply phase is rendered partially useless.
In such cases we recommend using impedance panels or an autotransformer.

• Impedances
The motor is started with a voltage which is lower than the rated one, and which is obtained by means of impedances.
The Lowara panels use impedances which cut down to 70% the starting voltage.
The switch to the rated voltage takes place without any interruptions of the power supply.

Rated voltage Un = 400 V
Starting voltage Us = Un x 0,7 = 280 V

Starting current

$$Is = In \times 4 \div 8 \times \left(\frac{Us}{Un}\right) = In \times 3 \div 6$$

Starting torque

$$Ts = Tn \times 2 \div 3 \times \left(\frac{Us}{Un}\right)^2 = Tn \times 1 \div 1{,}5$$

Autotransformer
The pump is started with a voltage which is lower than the rated one.
The Lowara panels use an autotransformer with a voltage that is 70% the value of the line voltage.
The switch to the rated voltage occurs without any interruptions of the power supply.
Rated voltage Un = 400 V

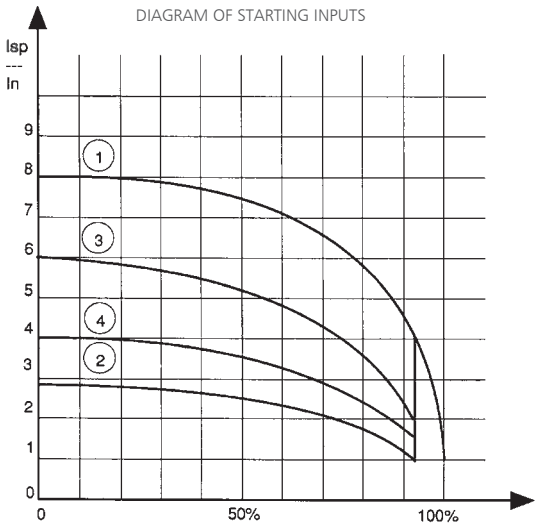
Starting current

$$Is = In \times 4 \div 8 \times \left(\frac{Us}{Un}\right) = In \times 3 \div 6$$

Starting torque

$$Ts = Tn \times 2 \div 3 \times \left(\frac{Us}{Un}\right)^2 = Tn \times 1 \div 1{,}5$$

DIAGRAM OF STARTING INPUTS



1 = Direct
2 = Star-Delta
3 = Impedances
4 = Autotransformer

WATER REQUIREMENTS IN CIVIL USERS

Determination of the water requirement depends on the type of users and contemporaneity factor. The calculation may be subject to regulations, standards or customs that may vary from country to country. The calculation method shown below is an example based on practical experience, designed to provide a reference value and not a substitute for detailed analytical calculation.

Water requirements in condominiums

The **consumption table** shows the maximum values for each delivery point, depending on the plumbing amenities.

MAXIMUM CONSUMPTION FOR EACH DELIVERY POINT

TYPE	CONSUMPTION (l/min)
Sink	9
Dishwasher	10
Washing machine	12
Shower	12
Bathtub	15
Washbasin	6
Bidet	6
Flush tank WC	6
Controlled flushing system WC	90

G-at-cm_a_th

The **sum of the water consumption values** of each delivery point determines the maximum theoretical requirement, which must be reduced according to the **contemporaneity coefficient**, because in actual fact the delivery points are never used all together.

$$f = \frac{1}{\sqrt{(0{,}857 \times Nr \times Na)}}$$ Coefficient for apartments with one bathroom and flush tank WC

$$f = \frac{1}{\sqrt{(0{,}857 \times Nr \times Na)}}$$ Coefficient for apartments with one bathroom and controlled flushing system WC

$$f = \frac{1{,}03}{\sqrt{(0{,}545 \times Nr \times Na)}}$$ Coefficient for apartments with two bathrooms and flush tank WC

$$f = \frac{0{,}8}{\sqrt{(0{,}727 \times Nr \times Na)}}$$ Coefficient for apartments with two bathrooms and controlled flushing system WC

f= coefficient; Nr= number of delivery points; Na= number of apartments

The **table of water requirements in civil users** shows the maximum contemporaneity flow-rate values based on the **number of apartments** and the type of WC for apartments with one bathroom and two bathrooms. As regards apartments with one bathroom, 7 drawing points have been taken into consideration, while 11 points have been considered for apartments with two bathrooms. If the number of drawing points or apartments is different, use the formulas to **calculate** the requirement.

TABLE OF WATER REQUIREMENTS IN CIVIL USERS

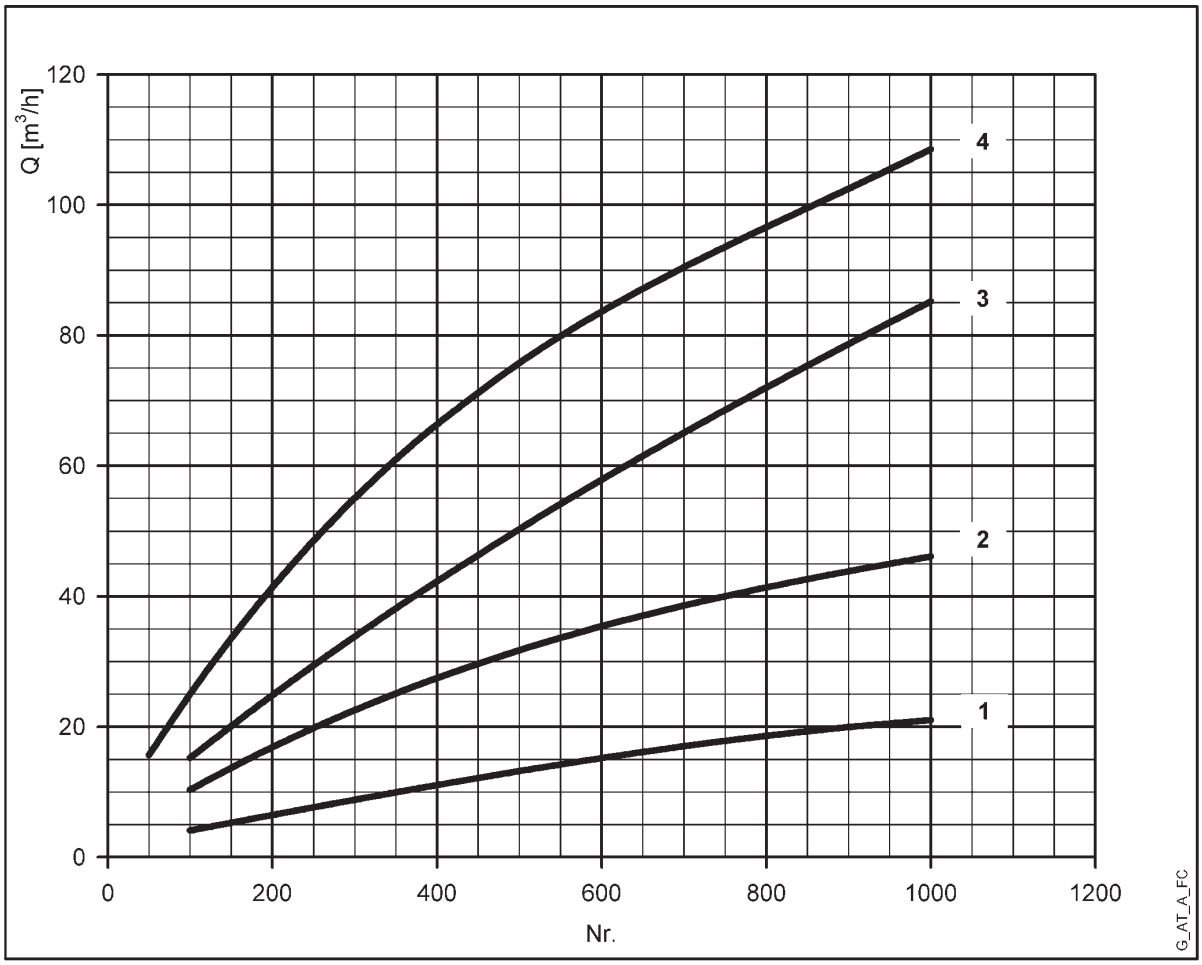
NUMBER OF APARTMENTS	WITH FLUSH TANK WC		WITH CONTROLLED FLUSHING SYSTEM WC	
	1	2	1	2
	FLOW RATE (l/min)			
1	32	40	60	79
2	45	56	85	111
3	55	68	105	136
4	63	79	121	157
5	71	88	135	176
6	78	97	148	193
7	84	105	160	208
8	90	112	171	223
9	95	119	181	236
10	100	125	191	249
11	105	131	200	261
12	110	137	209	273
13	114	143	218	284
14	119	148	226	295
15	123	153	234	305
16	127	158	242	315
17	131	163	249	325
18	134	168	256	334
19	138	172	263	343
20	142	177	270	352
21	145	181	277	361
22	149	185	283	369
23	152	190	290	378
24	155	194	296	386
25	158	198	302	394
26	162	202	308	401
27	165	205	314	409
28	168	209	320	417
29	171	213	325	424
30	174	217	331	431
35	187	234	357	466
40	200	250	382	498
45	213	265	405	528
50	224	280	427	557
55	235	293	448	584
60	245	306	468	610
65	255	319	487	635
70	265	331	506	659
75	274	342	523	682
80	283	354	540	704
85	292	364	557	726
90	301	375	573	747
95	309	385	589	767
100	317	395	604	787
120	347	433	662	863
140	375	468	715	932
160	401	500	764	996
180	425	530	811	1056
200	448	559	854	1114

For seaside resorts, a flow rate increased by at least 20% must be considered.

G-at-fi_a_th

WATER REQUIREMENTS FOR COMMUNITY BUILDINGS

The requirements of buildings intended for specific uses, such as **offices, residential units, hotels, department stores, nursing homes** and so on, are different from those of condominiums, and both their global daily water consumption and the maximum contemporaneity flow rate are usually greater. The **diagram of water requirements for community buildings** shows the maximum contemporaneity flow rate of some types of communities, for guidance.
These requirements must be determined case by case with the utmost accuracy, using analytical calculation methods, according to particular needs and local provisions.



For seaside resorts, the flow rate must be increased by at least 20%.

1= Offices (N. of people)
2= Department stores (N. of people)
3= Nursing homes (N. of beds)
4= Hotels, residences (N. of beds)

USE OF BOOSTER SET

Water is usually delivered by public supply systems and the pressure is generally sufficient for the proper operation of the users' water and sanitary equipment.
When this pressure is not sufficient, booster sets are employed to increase water pressure and ensure an acceptable minimum value at the furthest points. Therefore, the water supply to a building, group of buildings or to a system in general can be considered satisfactory when all the user points can deliver the required quantity of water.

SET CONNECTION METHODS (INTAKE SIDE)

Water can be supplied to a booster set in two ways:

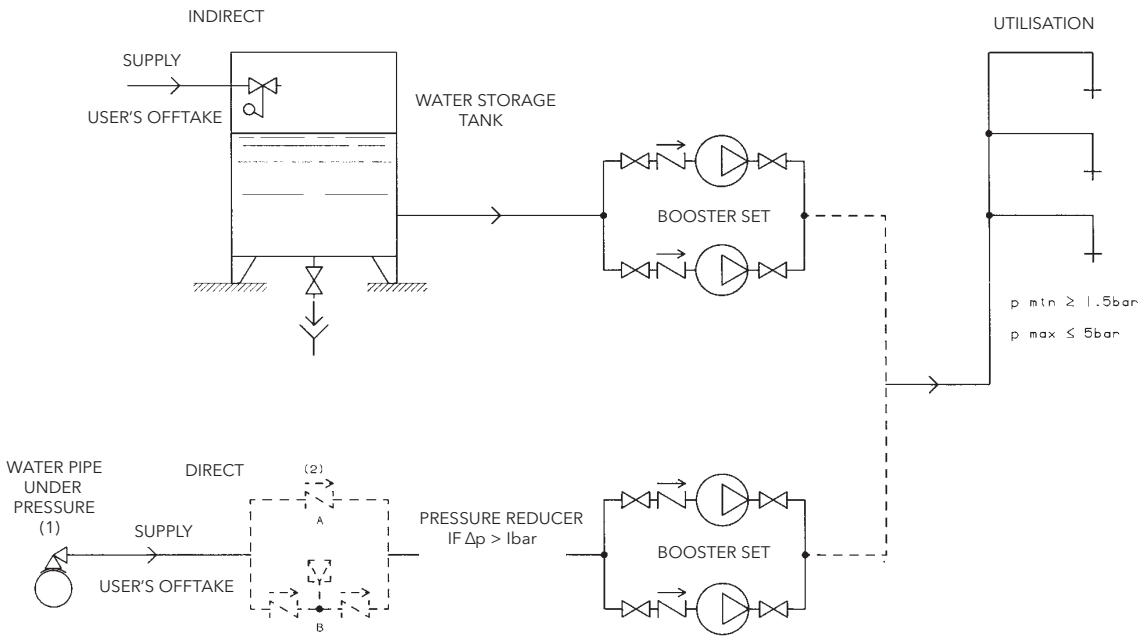
1 - By installing a water storage tank between the user's offtake and the booster set (indirect connection, fig. 7.1.1).

2 - By connecting the booster set directly between the user's offtake and the system (direct connection, fig. 7.1.1).

The indirect connection does not allow the water system pressure to be utilized. Therefore, it requires pumps with greater head.

The direct connection allows the water system pressure to be utilized, provided the pressure fluctuation (Δp) does not exceed 1 bar.

If it does, a pressure reducer must be installed for proper operation of the booster set.



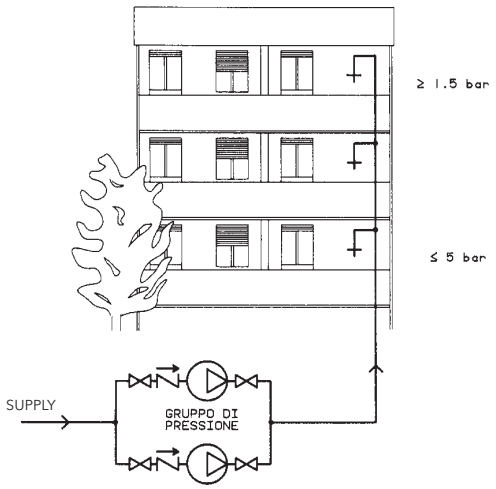
(1) BY PIPE UNDER PRESSURE WE MEAN A WATER SYSTEM, A CLOSED TANK, ETC.
(2) IN THE CASE OF A WATER SYSTEM INSTALL A CHECK VALVE (A) OR A DISCONNECTING DEVICE (B), UNLESS OTHERWISE PROVIDED BY LOCAL REGULATIONS

fig. 7.1.1

Water supply systems in civil buildings

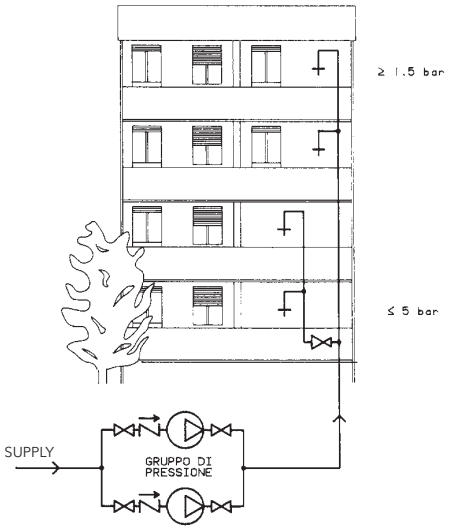
The configuration of the supply system must comply with the following conditions:
- The minimum pressure ensuring the proper operation of the equipment must be guaranteed at the most unfavourable drawing point (1.5 bar for valves and flush tank WC, and 2 bar for controlled flushing system WC).
- At the most favourable drawing point, pressure must not exceed 5 bar.

Once these parameters have been satisfied, in relation to the height of the building and to the set intake conditions, the water supply system can have one of the following configurations:



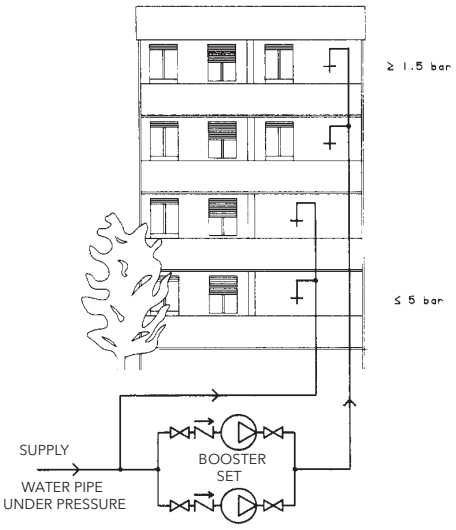
A) THE SET SERVES THE ENTIRE BUILDING

fig. 7.1.2



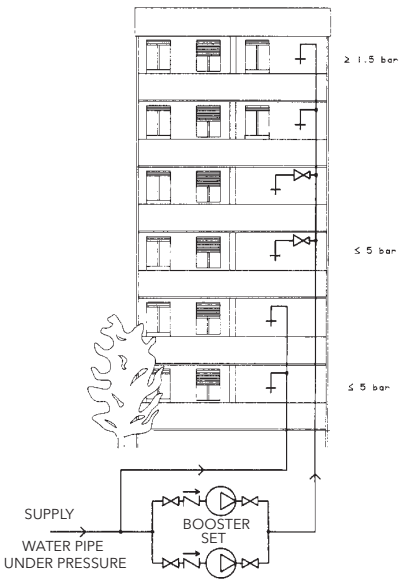
B) THE SET SERVES THE ENTIRE BUILDING, BUT THE LOWER FLOORS ARE CONNECTED THROUGH A PRESSURE REDUCER SINCE THE PRESSURE TO THE NEAREST UTILIZATION POINTS IS TOO HIGH

fig. 7.1.3



C) THE SET SERVES THE UPPER FLOORS, WHEREAS THE LOWER FLOORS ARE SUPPLIED BY THE WATER PIPE UNDER PRESSURE

fig. 7.1.4



D) THIS CASE RESEMBLES THE PREVIOUS ONE EXCEPT THAT PRESSURE REDUCERS NEED TO BE INSTALLED ON SOME OF THE LOWER FLOORS

fig. 7.1.5

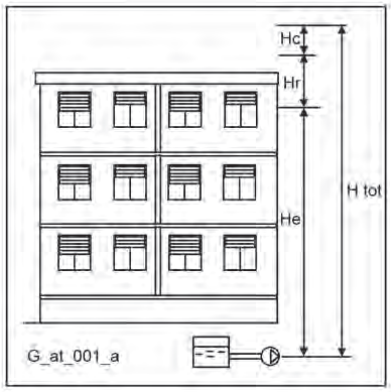
DETERMINING THE HEAD OF THE SET AND INTAKE CONDITIONS

Level intake

The delivery head of the set (H tot) is the sum of:

- He : geodetic difference in level between the set and the furthest delivery point.
- Hc : flow resistance along all the pipes and through other system components, such as valves, filters, etc..
- Hr : pressure required at the most unfavourable point.

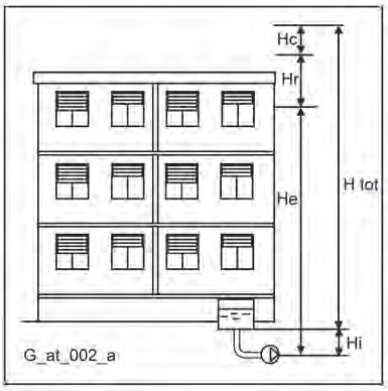
H tot = He+Hc+Hr



Intake with positive head

In this case, the necessary delivery head (H tot) will be reduced by the inlet pressure value (Hi).

H tot = He+Hc+Hr- Hi

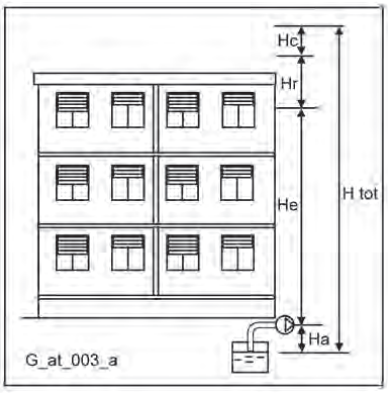


Intake with negative head

When the pumps suck from an underground tank or well, the necessary head will be increased by the value of the intake height (Ha):.

H tot = He+Hc+Hr+ Ha

In this case the intake height must be considered very carefully, bearing in mind that an excessive difference in level between the water storage tank and the set, or the wrong sizing of the intake pipe, can have adverse effects on pump operation, such as cavitation and unpriming.



NPSH

The minimum operating values that can be reached at the pump suction end are limited by the onset of cavitation. Cavitation is the formation of vapour-filled cavities within liquids where the pressure is locally reduced to a critical value, or where the local pressure is equal to, or just below the vapour pressure of the liquid.
The vapour-filled cavities flow with the current and when they reach a higher pressure area the vapour contained in the cavities condenses. The cavities collide, generating pressure waves that are transmitted to the walls. These, being subjected to stress cycles, gradually become deformed and yield due to fatigue. This phenomenon, characterized by a metallic noise produced by the hammering on the pipe walls, is called incipient cavitation.
The damage caused by cavitation may be magnified by electrochemical corrosion and a local rise in temperature due to the plastic deformation of the walls. The materials that offer the highest resistance to heat and corrosion are alloy steels, especially austenitic steel. The conditions that trigger cavitation may be assessed by calculating the total net suction head, referred to in technical literature with the acronym NPSH (Net Positive Suction Head).
The NPSH represents the total energy (expressed in m.) of the liquid measured at suction under conditions of incipient cavitation, excluding the vapour pressure (expressed in m.) that the liquid has at the pump inlet.
To find the static height hz at which to install the machine under safe conditions, the following formula must be verified:

hp + hz ≥ (NPSHr + 0.5) + hf + hpv ①

where:

hp is the absolute pressure applied to the free liquid surface in the suction tank, expressed in m. of liquid; hp is the quotient between the barometric pressure and the specific weight of the liquid.

hz is the suction lift between the pump axis and the free liquid surface in the suction tank, expressed in m.; hz is negative when the liquid level is lower than the pump axis.

hf is the flow resistance in the suction line and its accessories, such as: fittings, foot valve, gate valve, elbows, etc.

hpv is the vapour pressure of the liquid at the operating temperature, expressed in m. of liquid. hpv is the quotient between the Pv vapour pressure and the liquid's specific weight.

0,5 is the safety factor.

The maximum possible suction head for installation depends on the value of the atmospheric pressure (i.e. the elevation above sea level at which the pump is installed) and the temperature of the liquid.
To help the user, with reference to water temperature (4° C) and to the elevation above sea level, the following tables show the drop in hydraulic pressure head in relation to the elevation above sea level, and the suction loss in relation to temperature.

Water temperature (°C)	20	40	60	80	90	110	120
Suction loss (m)	0,2	0,7	2,0	5,0	7,4	15,4	21,5

Elevation above sea level (m)	500	1000	1500	2000	2500	3000
Suction loss (m)	0,55	1,1	1,65	2,2	2,75	3,3

Friction loss is shown in the tables at pages 103-104 of this catalogue. To reduce it to a minimum, especially in cases of high suction head (over 4-5 m.) or within the operating limits with high flow rates, we recommend using a suction line having a larger diameter than that of the pump's suction port.
It is always a good idea to position the pump as close as possible to the liquid to be pumped.
Make the following calculation:

Liquid: water at ~15°C γ = 1 kg/dm^3
Flow rate required: 30 m^3/h
Head for required delivery: 43 m.
Suction lift: 3,5 m.
The selection is an FHE 40-200/75 pump whose NPSH required value is, at 30 m^3/h, di 2,5 m.

For water at 15 °C

hp = Pa / γ = 10,33m, hpv = Pv / γ = 0,174m (0,01701 bar)

The Hf flow resistance in the suction line with foot valves is ~ 1,2 m.
By substituting the parameters in formula ① with the numeric values above, we have:

10,33 + (-3,5) ≥ (2,5 + 0,5) + 1,2 + 0,17

from which we have: 6,8 > 4,4

The relation is therefore verified.

TECHNICAL APPENDIX VAPOUR PRESSURE PS VAPOUR PRESSURE AND ρ DENSITY OF WATER TABLE

t	T	ps	ρ	t	T	ps	ρ	t	T	ps	ρ
°C	K	bar	kg/dm^3	°C	K	bar	kg/dm^3	°C	K	bar	kg/dm^3
0	273,15	0,00611	0,9998	55	328,15	0,15741	0,9857	120	393,15	1,9854	0,9429
1	274,15	0,00657	0,9999	56	329,15	0,16511	0,9852	122	395,15	2,1145	0,9412
2	275,15	0,00706	0,9999	57	330,15	0,17313	0,9846	124	397,15	2,2504	0,9396
3	276,15	0,00758	0,9999	58	331,15	0,18147	0,9842	126	399,15	2,3933	0,9379
4	277,15	0,00813	1,0000	59	332,15	0,19016	0,9837	128	401,15	2,5435	0,9362
5	278,15	0,00872	1,0000	60	333,15	0,1992	0,9832	130	403,15	2,7013	0,9346
6	279,15	0,00935	1,0000	61	334,15	0,2086	0,9826	132	405,15	2,867	0,9328
7	280,15	0,01001	0,9999	62	335,15	0,2184	0,9821	134	407,15	3,041	0,9311
8	281,15	0,01072	0,9999	63	336,15	0,2286	0,9816	136	409,15	3,223	0,9294
9	282,15	0,01147	0,9998	64	337,15	0,2391	0,9811	138	411,15	3,414	0,9276
10	283,15	0,01227	0,9997	65	338,15	0,2501	0,9805	140	413,15	3,614	0,9258
11	284,15	0,01312	0,9997	66	339,15	0,2615	0,9799	145	418,15	4,155	0,9214
12	285,15	0,01401	0,9996	67	340,15	0,2733	0,9793	155	428,15	5,433	0,9121
13	286,15	0,01497	0,9994	68	341,15	0,2856	0,9788	160	433,15	6,181	0,9073
14	287,15	0,01597	0,9993	69	342,15	0,2984	0,9782	165	438,15	7,008	0,9024
15	288,15	0,01704	0,9992	70	343,15	0,3116	0,9777	170	433,15	7,920	0,8973
16	289,15	0,01817	0,9990	71	344,15	0,3253	0,9770	175	448,15	8,924	0,8921
17	290,15	0,01936	0,9988	72	345,15	0,3396	0,9765	180	453,15	10,027	0,8869
18	291,15	0,02062	0,9987	73	346,15	0,3543	0,9760	185	458,15	11,233	0,8815
19	292,15	0,02196	0,9985	74	347,15	0,3696	0,9753	190	463,15	12,551	0,8760
20	293,15	0,02337	0,9983	75	348,15	0,3855	0,9748	195	468,15	13,987	0,8704
21	294,15	0,24850	0,9981	76	349,15	0,4019	0,9741	200	473,15	15,550	0,8647
22	295,15	0,02642	0,9978	77	350,15	0,4189	0,9735	205	478,15	17,243	0,8588
23	296,15	0,02808	0,9976	78	351,15	0,4365	0,9729	210	483,15	19,077	0,8528
24	297,15	0,02982	0,9974	79	352,15	0,4547	0,9723	215	488,15	21,060	0,8467
25	298,15	0,03166	0,9971	80	353,15	0,4736	0,9716	220	493,15	23,198	0,8403
26	299,15	0,03360	0,9968	81	354,15	0,4931	0,9710	225	498,15	25,501	0,8339
27	300,15	0,03564	0,9966	82	355,15	0,5133	0,9704	230	503,15	27,976	0,8273
28	301,15	0,03778	0,9963	83	356,15	0,5342	0,9697	235	508,15	30,632	0,8205
29	302,15	0,04004	0,9960	84	357,15	0,5557	0,9691	240	513,15	33,478	0,8136
30	303,15	0,04241	0,9957	85	358,15	0,5780	0,9684	245	518,15	36,523	0,8065
31	304,15	0,04491	0,9954	86	359,15	0,6011	0,9678	250	523,15	39,776	0,7992
32	305,15	0,04753	0,9951	87	360,15	0,6249	0,9671	255	528,15	43,246	0,7916
33	306,15	0,05029	0,9947	88	361,15	0,6495	0,9665	260	533,15	46,943	0,7839
34	307,15	0,05318	0,9944	89	362,15	0,6749	0,9658	265	538,15	50,877	0,7759
35	308,15	0,05622	0,9940	90	363,15	0,7011	0,9652	270	543,15	55,058	0,7678
36	309,15	0,05940	0,9937	91	364,15	0,7281	0,9644	275	548,15	59,496	0,7593
37	310,15	0,06274	0,9933	92	365,15	0,7561	0,9638	280	553,15	64,202	0,7505
38	311,15	0,06624	0,9930	93	366,15	0,7849	0,9630	285	558,15	69,186	0,7415
39	312,15	0,06991	0,9927	94	367,15	0,8146	0,9624	290	563,15	74,461	0,7321
40	313,15	0,07375	0,9923	95	368,15	0,8453	0,9616	295	568,15	80,037	0,7223
41	314,15	0,07777	0,9919	96	369,15	0,8769	0,9610	300	573,15	85,927	0,7122
42	315,15	0,08198	0,9915	97	370,15	0,9094	0,9602	305	578,15	92,144	0,7017
43	316,15	0,09639	0,9911	98	371,15	0,9430	0,9596	310	583,15	98,70	0,6906
44	317,15	0,09100	0,9907	99	372,15	0,9776	0,9586	315	588,15	105,61	0,6791
45	318,15	0,09582	0,9902	100	373,15	1,0133	0,9581	320	593,15	112,89	0,6669
46	319,15	0,10086	0,9898	102	375,15	1,0878	0,9567	325	598,15	120,56	0,6541
47	320,15	0,10612	0,9894	104	377,15	1,1668	0,9552	330	603,15	128,63	0,6404
48	321,15	0,11162	0,9889	106	379,15	1,2504	0,9537	340	613,15	146,05	0,6102
49	322,15	0,11736	0,9884	108	381,15	1,3390	0,9522	350	623,15	165,35	0,5743
50	323,15	0,12335	0,9880	110	383,15	1,4327	0,9507	360	633,15	186,75	0,5275
51	324,15	0,12961	0,9876	112	385,15	1,5316	0,9491	370	643,15	210,54	0,4518
52	325,15	0,13613	0,9871	114	387,15	1,6362	0,9476	374,15	647,30	221,20	0,3154
53	326,15	0,14293	0,9862	116	389,15	1,7465	0,9460				
54	327,15	0,15002	0,9862	118	391,15	1,8628	0,9445				

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TABLE OF FLOW RESISTANCE IN 100 M OF STRAIGHT CAST IRON PIPELINE (HAZEN-WILLIAMS FORMULA C=100)

FLOW RATE			NOMINAL DIAMETER in mm and INCHES																
m^3/h	l/min		15	20	25	32	40	50	65	80	100	125	150	175	200	250	300	350	400
			1/2"	3/4"	1"	1 1/4"	1 1/2"	2	2 1/2"	3"	4"	5"	6"	7"	8"	10"	12"	14"	16"
0,6	10	v	0,94	0,53	0,34	0,21	0,13												
		hr	16	3,94	1,33	0,40	0,13												
0,9	15	v	1,42	0,80	0,51	0,31	0,20												
		hr	33,9	8,35	2,82	0,85	0,29												
1,2	20	v	1,89	1,06	0,68	0,41	0,27	0,17											
		hr	57,7	14,21	4,79	1,44	0,49	0,16											
1,5	25	v	2,36	1,33	0,85	0,52	0,33	0,21											
		hr	87,2	21,5	7,24	2,18	0,73	0,25											
1,8	30	v	2,83	1,59	1,02	0,62	0,40	0,25											
		hr	122	30,1	10,1	3,05	1,03	0,35											
2,1	35	v	3,30	1,86	1,19	0,73	0,46	0,30											
		hr	162	40,0	13,5	4,06	1,37	0,46											
2,4	40	v		2,12	1,36	0,83	0,53	0,34	0,20										
		hr		51,2	17,3	5,19	1,75	0,59	0,16										
3	50	v		2,65	1,70	1,04	0,66	0,42	0,25										
		hr		77,4	26,1	7,85	2,65	0,89	0,25										
3,6	60	v		3,18	2,04	1,24	0,80	0,51	0,30										
		hr		108	36,6	11,0	3,71	1,25	0,35										
4,2	70	v		3,72	2,38	1,45	0,93	0,59	0,35										
		hr		144	48,7	14,6	4,93	1,66	0,46										
4,8	80	v		4,25	2,72	1,66	1,06	0,68	0,40										
		hr		185	62,3	18,7	6,32	2,13	0,59										
5,4	90	v			3,06	1,87	1,19	0,76	0,45	0,30									
		hr			77,5	23,3	7,85	2,65	0,74	0,27									
6	100	v			3,40	2,07	1,33	0,85	0,50	0,33									
		hr			94,1	28,3	9,54	3,22	0,90	0,33									
7,5	125	v			4,25	2,59	1,66	1,06	0,63	0,41									
		hr			142	42,8	14,4	4,86	1,36	0,49									
9	150	v				3,11	1,99	1,27	0,75	0,50	0,32								
		hr				59,9	20,2	6,82	1,90	0,69	0,23								
10,5	175	v				3,63	2,32	1,49	0,88	0,58	0,37								
		hr				79,7	26,9	9,07	2,53	0,92	0,31								
12	200	v				4,15	2,65	1,70	1,01	0,66	0,42								
		hr				102	34,4	11,6	3,23	1,18	0,40								
15	250	v				5,18	3,32	2,12	1,26	0,83	0,53	0,34							
		hr				154	52,0	17,5	4,89	1,78	0,60	0,20							
18	300	v					3,98	2,55	1,51	1,00	0,64	0,41							
		hr					72,8	24,6	6,85	2,49	0,84	0,28							
24	400	v					5,31	3,40	2,01	1,33	0,85	0,54	0,38						
		hr					124	41,8	11,66	4,24	1,43	0,48	0,20						
30	500	v					6,63	4,25	2,51	1,66	1,06	0,68	0,47						
		hr					187	63,2	17,6	6,41	2,16	0,73	0,30						
36	600	v						5,10	3,02	1,99	1,27	0,82	0,57	0,42					
		hr						88,6	24,7	8,98	3,03	1,02	0,42	0,20					
42	700	v						5,94	3,52	2,32	1,49	0,95	0,66	0,49					
		hr						118	32,8	11,9	4,03	1,36	0,56	0,26					
48	800	v						6,79	4,02	2,65	1,70	1,09	0,75	0,55					
		hr						151	42,0	15,3	5,16	1,74	0,72	0,34					
54	900	v						7,64	4,52	2,99	1,91	1,22	0,85	0,62					
		hr						188	52,3	19,0	6,41	2,16	0,89	0,42					
60	1000	v							5,03	3,32	2,12	1,36	0,94	0,69	0,53				
		hr							63,5	23,1	7,79	2,63	1,08	0,51	0,27				
75	1250	v							6,28	4,15	2,65	1,70	1,18	0,87	0,66				
		hr							96,0	34,9	11,8	3,97	1,63	0,77	0,40				
90	1500	v							7,54	4,98	3,18	2,04	1,42	1,04	0,80				
		hr							134	48,9	16,5	5,57	2,29	1,08	0,56				
105	1750	v							8,79	5,81	3,72	2,38	1,65	1,21	0,93				
		hr							179	65,1	21,9	7,40	3,05	1,44	0,75				
120	2000	v								6,63	4,25	2,72	1,89	1,39	1,06	0,68			
		hr								83,3	28,1	9,48	3,90	1,84	0,96	0,32			
150	2500	v								8,29	5,31	3,40	2,36	1,73	1,33	0,85			
		hr								126	42,5	14,3	5,89	2,78	1,45	0,49			
180	3000	v									6,37	4,08	2,83	2,08	1,59	1,02	0,71		
		hr									59,5	20,1	8,26	3,90	2,03	0,69	0,28		
210	3500	v									7,43	4,76	3,30	2,43	1,86	1,19	0,83		
		hr									79,1	26,7	11,0	5,18	2,71	0,91	0,38		
240	4000	v									8,49	5,44	3,77	2,77	2,12	1,36	0,94		
		hr									101	34,2	14,1	6,64	3,46	1,17	0,48		
300	5000	v										6,79	4,72	3,47	2,65	1,70	1,18		
		hr										51,6	21,2	10,0	5,23	1,77	0,73		
360	6000	v										8,15	5,66	4,16	3,18	2,04	1,42		
		hr										72,3	29,8	14,1	7,33	2,47	1,02		
420	7000	v											6,61	4,85	3,72	2,38	1,65	1,21	
		hr											39,6	18,7	9,75	3,29	1,35	0,64	
480	8000	v											7,55	5,55	4,25	2,72	1,89	1,39	
		hr											50,7	23,9	12,49	4,21	1,73	0,82	
540	9000	v											8,49	6,24	4,78	3,06	2,12	1,56	1,19
		hr											63,0	29,8	15,5	5,24	2,16	1,02	0,53
600	10000	v												6,93	5,31	3,40	2,36	1,73	1,33
		hr												36,2	18,9	6,36	2,62	1,24	0,65

The hr values must be multiplied by:
0.71 for galvanized or painted steel pipes
0.54 for stainless steel or copper pipes
0.47 for PVC or PE pipes

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hr = flow resistance for 100m of straight pipeline (m)
V = water speed (m/s)

TABLE OF FLOW RESISTANCE IN BENDS, VALVES AND GATES

The flow resistance is calculated using the equivalent pipeline length method according to the table below:

ACCESSORY TYPE	DN											
	25	32	40	50	65	80	100	125	150	200	250	300
	Equivalent pipeline length (m)											
45° bend	0,2	0,2	0,4	0,4	0,6	0,6	0,9	1,1	1,5	1,9	2,4	2,8
90° bend	0,4	0,6	0,9	1,1	1,3	1,5	2,1	2,6	3,0	3,9	4,7	5,8
90° smooth bend	0,4	0,4	0,4	0,6	0,9	1,1	1,3	1,7	1,9	2,8	3,4	3,9
Union tee or cross	1,1	1,3	1,7	2,1	2,6	3,2	4,3	5,3	6,4	7,5	10,7	12,8
Gate	-	-	-	0,2	0,2	0,2	0,4	0,4	0,6	0,9	1,1	1,3
Non return valve	1,1	1,5	1,9	2,4	3,0	3,4	4,7	5,9	7,4	9,6	11,8	13,9

G-a-pcv_a_th

The table is valid for the Hazen Williams coefficient C = 100 (cast iron pipework). For steel pipework, multiply the values by 1.41. For stainless steel, copper and coated cast iron pipework, multiply the values by 1.85.
When the **equivalent pipeline length** has been determined, the flow resistance is obtained from the table of flow resistance.
The values given are guideline values which are bound to vary slightly according to the model, especially for gate valves and non-return valves, for which it is a good idea to check the values supplied by the manufacturers.

VOLUMETRIC CAPACITY

Litres per minute l/min	Cubic metres per hour m^3/h	Cubic feet per hour ft^3/h	Cubic feet per minute ft^3/min	Imp. gal. per minute Imp. gal/min	US gal. per minute Us gal./min
1,0000	0,0600	2,1189	0,0353	0,2200	0,2642
16,6667	**1,0000**	35,3147	0,5886	3,6662	4,4029
0,4719	0,0283	**1,0000**	0,0167	0,1038	0,1247
28,3168	1,6990	60,0000	**1,0000**	6,2288	7,4805
4,5461	0,2728	9,6326	0,1605	**1,0000**	1,2009
3,7854	0,2271	8,0208	0,1337	0,8327	**1,0000**

PRESSURE AND HEAD

Newton per square metre N/m^2	kilo Pascal kPa	bar bar	Pound force per square inch psi	metre of water m H_2O	millimetre of mercury mm Hg
1,0000	0,0010	1×10^{-5}	1.45×10^{-4}	1.02×10^{-4}	0,0075
1000,0000	**1,0000**	0,0100	0,1450	0,1020	7,5006
1×10^5	100,0000	**1,0000**	14,5038	10,1972	750,0638
6894,7570	6,8948	0,0689	**1,0000**	0,7031	51,7151
9806,6500	9,8067	0,0981	1,4223	**1,0000**	73,5561
133,3220	0,1333	0,0013	0,0193	0,0136	**1,0000**

LENGHT

millimetre mm	centimetre cm	metre m	inch in	foot ft	yard yd
1,0000	0,1000	0,0010	0,0394	0,0033	0,0011
10,0000	**1,0000**	0,0100	0,3937	0,0328	0,0109
1000,0000	100,0000	**1,0000**	39,3701	3,2808	1,0936
25,4000	2,5400	0,0254	**1,0000**	0,0833	0,0278
304,8000	30,4800	0,3048	12,0000	**1,0000**	0,3333
914,4000	91,4400	0,9144	36,0000	3,0000	**1,0000**

VOLUME

cubic metre m^3	litre litro	millilitre ml	imp. Gallon imp. gal.	US gallon US gal.	cubic foot ft^3
1,0000	1000,0000	1×10^6	219,9694	264,1720	35,3147
0,0010	**1,0000**	1000,0000	0,2200	0,2642	0,0353
1×10^{-6}	0,0010	**1,0000**	2.2×10^{-4}	2.642×10^{-4}	3.53×10^{-5}
0,0045	4,5461	4546,0870	**1,0000**	1,2009	0,1605
0,0038	3,7854	3785,4120	0,8327	**1,0000**	0,1337
0,0283	28,3168	28316,8466	6,2288	7,4805	**1,0000**

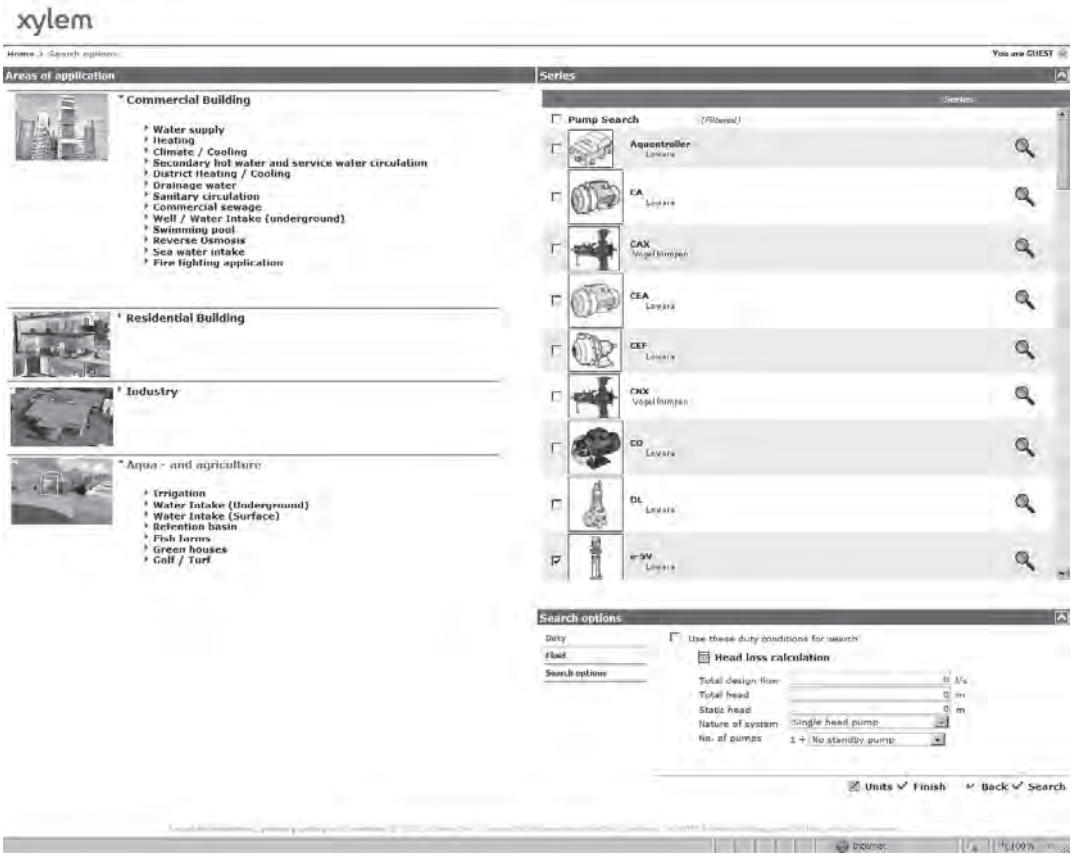
G-at_pp-en_a_sc

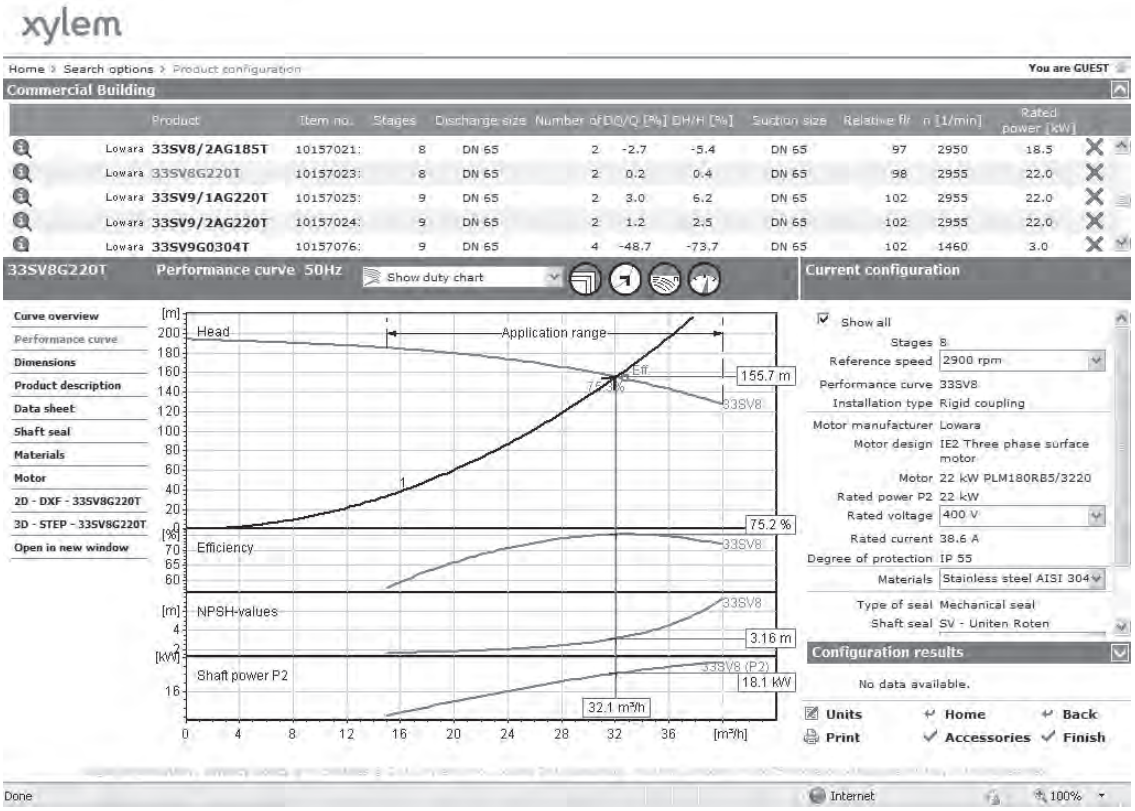
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Let's Solve Water

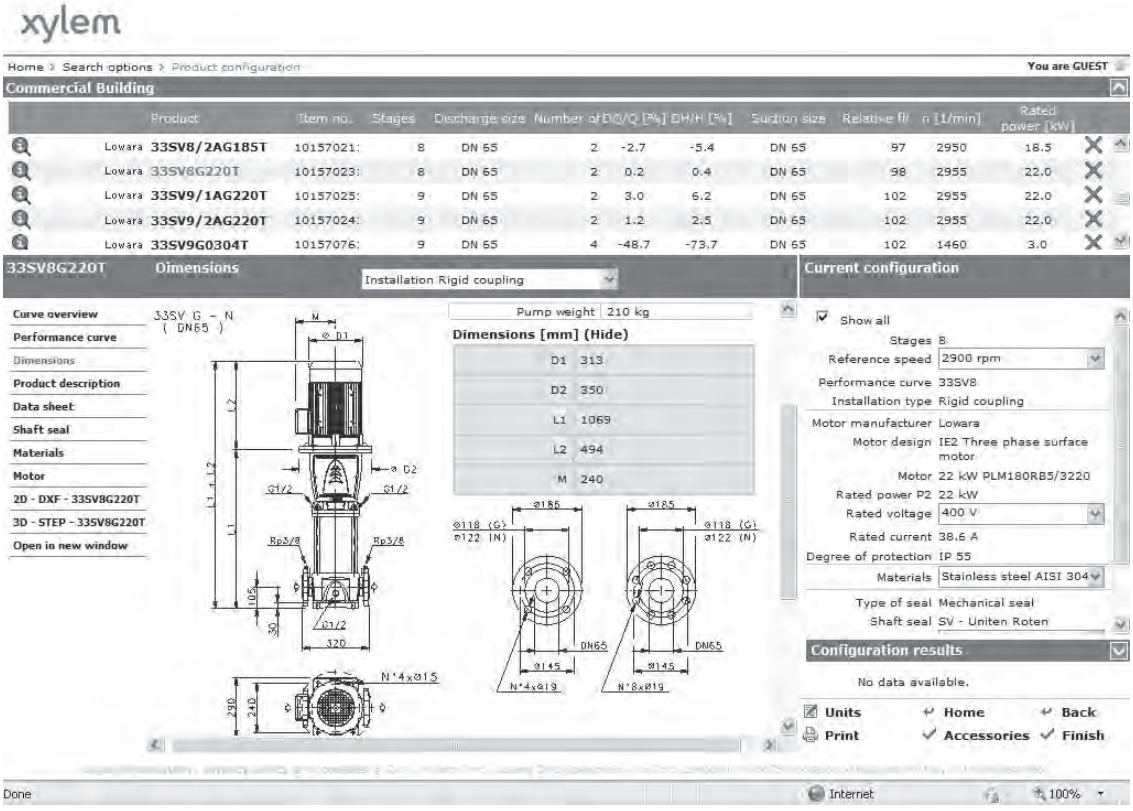
Xylect

PROFESSIONAL

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Product | Item no. | Stages | Discharge size | Number of | Q [%] | H [%] | Suction size | Relative fl/r | n [1/min] | Rated power [kW]
Lowara 33SV8/2AG185T | 10157021 | 8 | DN 65 | 2 | -2.7 | -5.4 | DN 65 | 97 | 2950 | 18.5
Lowara 33SV8G220T | 10157023 | 8 | DN 65 | 2 | 0.2 | 0.4 | DN 65 | 98 | 2955 | 22.0
Lowara 33SV9/1AG220T | 10157025 | 9 | DN 65 | 2 | 3.0 | 6.2 | DN 65 | 102 | 2955 | 22.0
Lowara 33SV9/2AG220T | 10157024 | 9 | DN 65 | 2 | 1.2 | 2.5 | DN 65 | 102 | 2955 | 22.0
Lowara 33SV9G0304T | 10157076 | 9 | DN 65 | 4 | -48.7 | -73.7 | DN 65 | 102 | 1460 | 3.0
33SV8G220T
Performance curve 50Hz
Show duty chart
Curve overview
Performance curve
Dimensions
Product description
Data sheet
Shaft seal
Materials
Motor
2D - DXF - 33SV8G220T
3D - STEP - 33SV8G220T
Open in new window
Head
Application range
155.7 m
75.2 %
Efficiency
NPSH-values
3.16 m
Shaft power P2
18.1 kW
32.1 m³/h
Current configuration
Show all
Stages 8
Reference speed 2900 rpm
Performance curve 33SV8
Installation type Rigid coupling
Motor manufacturer Lowara
Motor design IE2 Three phase surface motor
Motor 22 kW PLM180RB5/3220
Rated power P2 22 kW
Rated voltage 400 V
Rated current 38.6 A
Degree of protection IP 55
Materials Stainless steel AISI 304
Type of seal Mechanical seal
Shaft seal SV - Uniten Roten
Configuration results
No data available.
Units
Home
Back
Print
Accessories
Finish
Done
Internet
100%


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Product | Item no. | Stages | Discharge size | Number of | Q [%] | H [%] | Suction size | Relative fl/r | n [1/min] | Rated power [kW]
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33SV8G220T
Dimensions
Installation Rigid coupling
Curve overview
Performance curve
Dimensions
Product description
Data sheet
Shaft seal
Materials
Motor
2D - DXF - 33SV8G220T
3D - STEP - 33SV8G220T
Open in new window
33SV G - N (DN65)
Pump weight 210 kg
Dimensions [mm] (Hide)
D1 313
D2 350
L1 1069
L2 494
M 240
Current configuration
Show all
Stages 8
Reference speed 2900 rpm
Performance curve 33SV8
Installation type Rigid coupling
Motor manufacturer Lowara
Motor design IE2 Three phase surface motor
Motor 22 kW PLM180RB5/3220
Rated power P2 22 kW
Rated voltage 400 V
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Configuration results
No data available.
Units
Home
Back
Print
Accessories
Finish
Done
Internet
100%

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