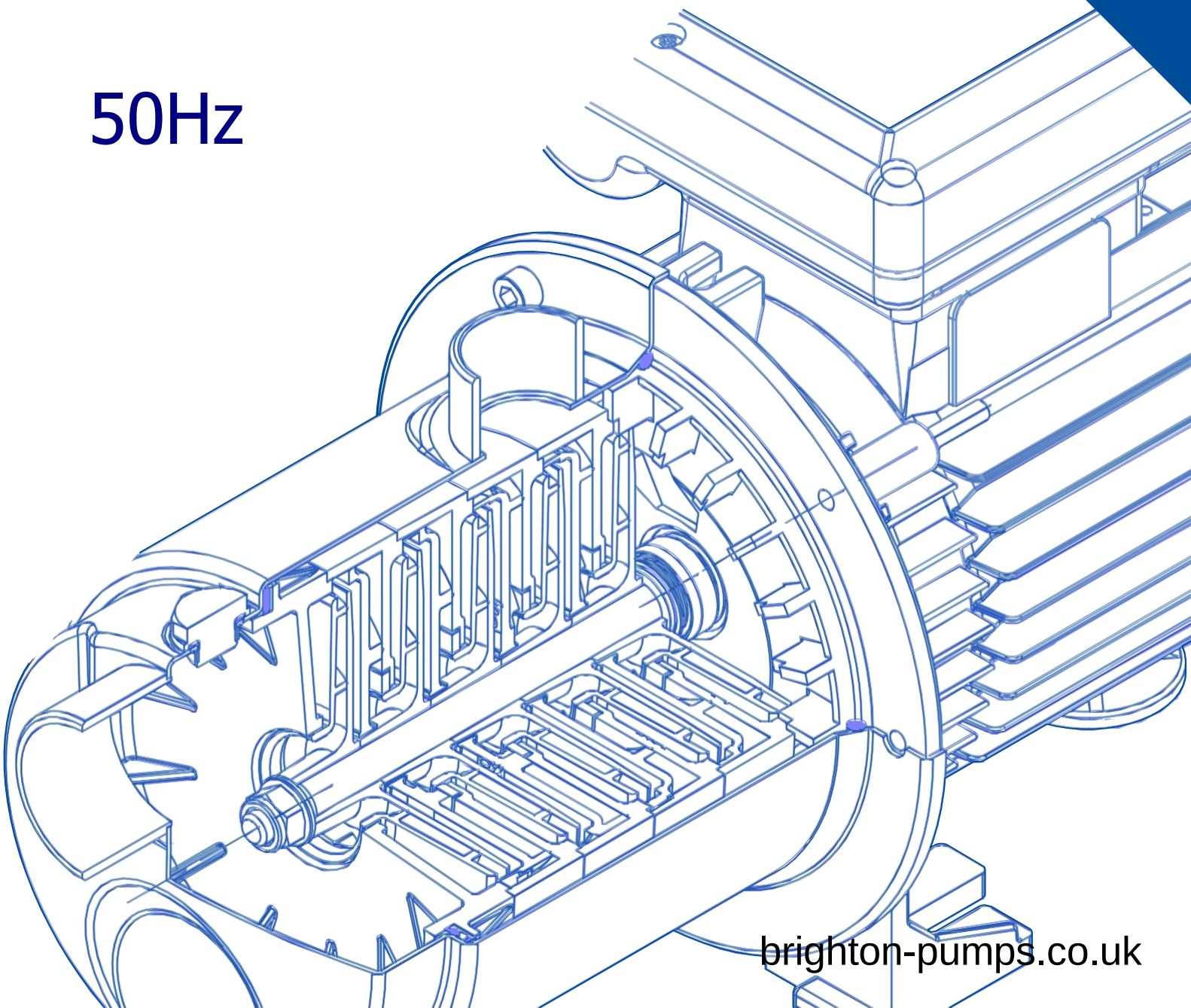
BRIGHTON

CATALOGUE ELECTRIC PUMPS AND BOOSTER SETS

50Hz



brighton-pumps.co.uk

BRIGHTON

A LEADER IN WATER TECHNOLOGY

Brighton Electric Pumps company is one of the world's leading companies for the engineering and manufacture of innovative products and systems suitable for all situations requiring the treatment, transportation and storage of water. The activity and success of the Company is based on values such as constant improvement, the continuous development of new products, high performance, competence, business ethics and market leadership. Brighton employees share personal values such as accountability, respect for others and the environment and a candid and practical work style. Strong customer relations and high quality standards mean that Brighton is ranked amongst the leading producers of water treatment technology and instruments.

SAFE, CLEAN WATER

Providing clean, safe water to an ever-growing portion of the population is the Brighton Mission: a proven organization works to efficiently serve our customers through production plants located in every corner of the world, and through specialized sales and marketing networks.

ELECTRIC PUMPS

Vertical and horizontal centrifugal pumps; submersible pumps for domestic, commercial, agricultural and industrial use; pumps for the drainage of clear and waste water; pressure booster units and fire-fighting systems, pumps for heating and air conditioning systems.

FILTRATION

Industrial, residential and commercial filtration systems; filter cartridges, components for the filtration of household water, pumps for mobile homes and boats, and pumps and accessories for industrial and food industry applications.

WATER TREATMENT

Residential, commercial and industrial water conditioning control valves; fiberglass wound expansion tanks and vessels; water storage tanks.

POOL

A complete range of pool equipment and accessories: filters, pumps, heating and lighting systems and cleaning accessories; dosing and control systems, and products and accessories for fountains and ponds.

BRIGHTON

WATER ENERGY

WE PUT ENERGY INTO YOUR WATER

The BRIGHTON brand exists since 1994 and is sold in over 24 countries worldwide. In Europe, Brighton already produces a wide range of swimming pool pumps and cleaners for its pool division, which have gained a reputationfor qualityand durability.The new European line for residential water supply and water disposal will be manufactured in Finland.

FIRE- FIGHTING AND PRESSURIZATION SYSTEMS

Vertical and horizontal centrifugal pumps. Complete systems for the transfer and pressurization of water. Fire-fighting systems.

ELECTRIC PUMPS FOR RESIDENTIAL USE

Submersible pumps, self-priming pumps, multistage centrifugal pumps and compact pumping systems for domestic water supply, irrigation and the re-utilization of harvested rainwater.

ELECTRIC DRAINAGE PUMPS

Pumps for the transfer of clear, dirty, waste water and sewage. Pumps for numerous applications (water in basins, tanks, pumping stations etc.)

ELECTRIC PUMPS FOR OPEN AND DRILLED WELLS

Submersible pumps for irrigation and pumping underground waters.

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VS/JP

FREQUENCY CONVERTER - SINGLE PHASE

- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Compact dimensions
- Many possible uses for the residential market
- Excellent priming capacity

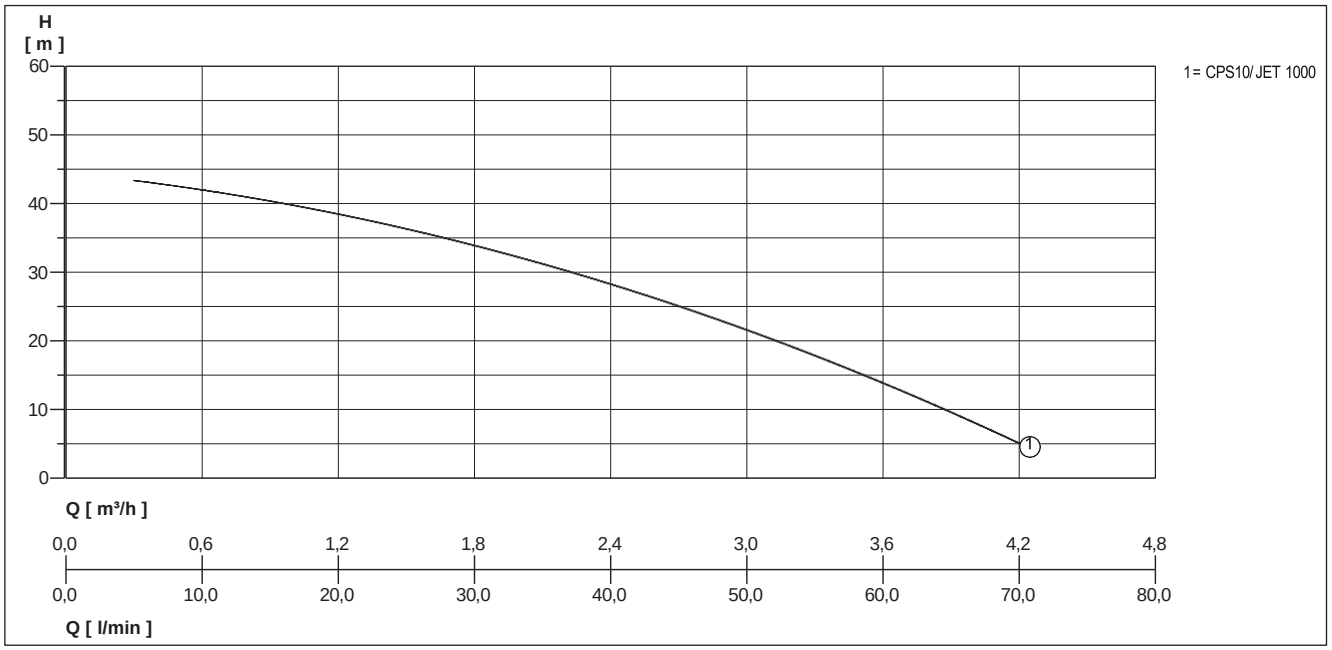
DESCRIPTION

The system consists of a self-priming centrifugal horizontal pump JP and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

APPLICATIONS

- Pressurization and supply
- Irrigation
- Use of rainwater
- Washing systems

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0	0.3	1.2	1.8	2.4	3	3.6	4.2
VS JP 1000	Delivery head H [m]	49	45	36	32	28	25	15	3

VS/JP

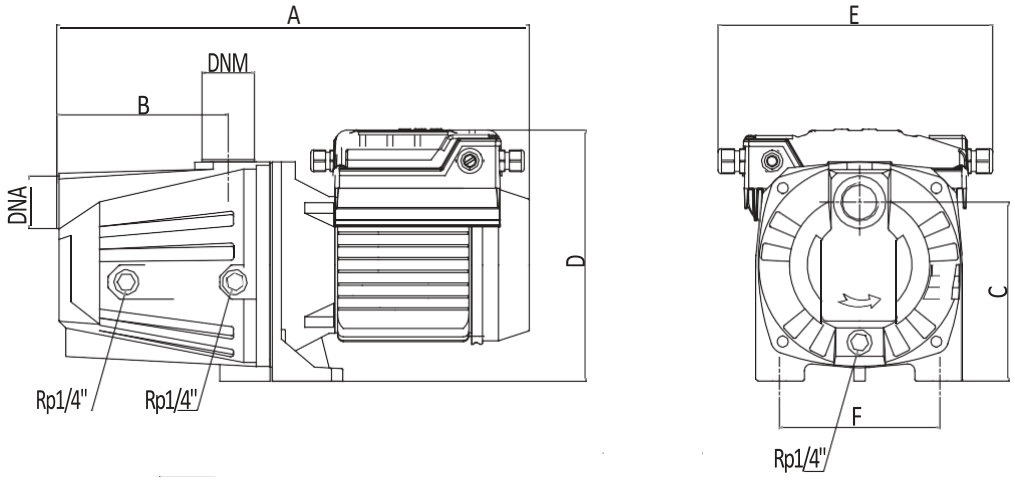
FREQUENCY CONVERTER - SINGLE PHASE

MECHANICAL DATA

Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	Operating pressure max.	6 bar
		Type of liquid	clean water without suspended solids or abrasive material
Impeller	Technopolymer		
Motor housing	Cast iron EN GJL 200	Temperature of the liquid max.	50 °C
Pump housing	Cast iron EN GJL 200	Gasket	NBR 70 Shore A
Mechanical seal	Graphite	Weight	20.8 kg
Contourface	Ceramic		

ELECTRICAL DATA

Voltage	1/N/PE-230 V	Insulation class	F
Motor rating P2	1 kW	Ambient temperature max.	40 °C
Current	6.5 A	Rotation speed	2850 rpm
Type of enclosure	IP55 (if installed on motors with a degree of protection IP55 or above)		



DIMENSIONS [mm]

Type	A	B	C	D	DNA	DNM	E
VS JP 1000	400	147	160	260	1″	1″	195

VS1/MPINOX

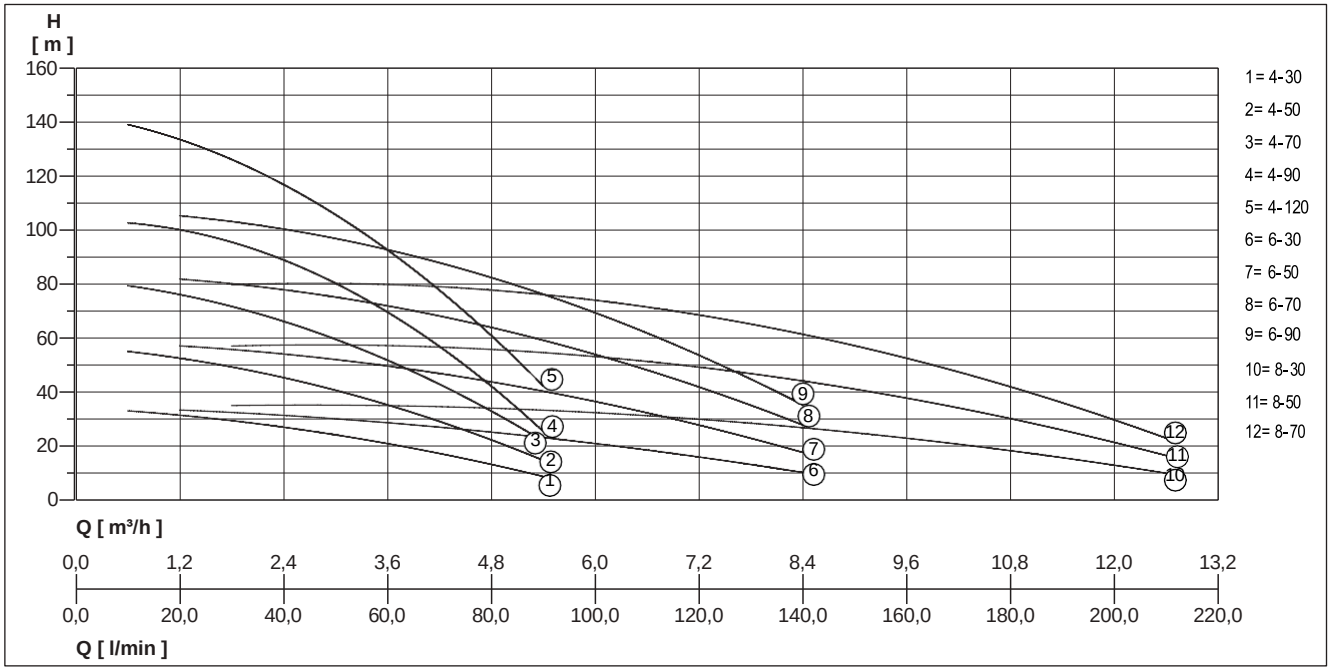
FREQUENCY CONVERTER - SINGLE PHASE

- High reliability - thanks to the durable and innovative design
- Quiet operation - improved user comfort thanks to its quiet operation
- Many possible uses for the residential market
- High performances

DESCRIPTION

The system consists of a multi-stage centrifugal vertical pumps MPINOX and an electronic control system (inverter) which allows to keep the pressure constant in the system, reducing or increasing the speed of rotation of the pump.

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

VS1/MPINOX

FREQUENCY CONVERTER - SINGLE PHASE

Type	Flow rate O [m3/h]	0.6	1.2	2	2.4	3	3.6	4.2	5	5.4	6	7.2	8.4	9	11	13
VS1 MPINOX 4-30	Delivery head H [m]	33	31	30	27	24	21	17	13	9						
VS1 MPINOX 4-50		55	52	50	45	41	35	29	22	15						
VS1 MPINOX 4-70		79	76	72	67	59	51	43	33	22						
VS1 MPINOX 4-90		104	99	95	88	79	69	59	46	32						
VS1 MPINOX 4-120		138	134	127	117	105	92	78	60	43						
VS1 MPINOX 6-30			34	32	31	30	28	27	26	23	21	16	10			
VS1 MPINOX 6-50			58	56	53	51	49	47	44	41	37	28	17			
VS1 MPINOX 6-70			83	80	77	74	71	68	64	60	55	42	27			
VS1 MPINOX 6-90			107	103	99	95	92	87	83	77	71	54	34			
VS1 MPINOX 8-30				35	35	35	35	35	34	33	32	30	27	25	18	10
VS1 MPINOX 8-50				57	57	56	56	56	54	53	52	50	45	40	28	16
VS1 MPINOX 8-70				80	80	79	78	78	76	74	72	70	63	56	40	22

MECHANICAL DATA

Dry run protection	Yes	Diffuser	Technopolymer
Shaft	Stainless steel X5 CrNi 1810 (AISI 304)	Type of liquid	clean water without suspended solids or abrasive material
Impeller	Technopolymer	Temperature of the liquid max.	50 °C
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Suction height max.	6 m
		Gasket	NBR

ELECTRICAL DATA

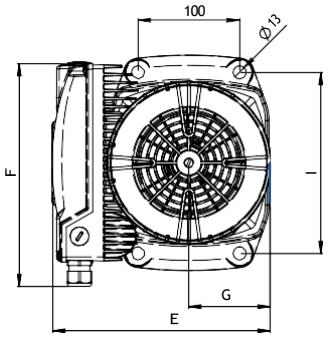
Voltage	1/N/PE-230 V	Ambient temperature max.	40 °C
Type of enclosure	IP 55	Rotation speed	2850 rpm
Insulation class	F		

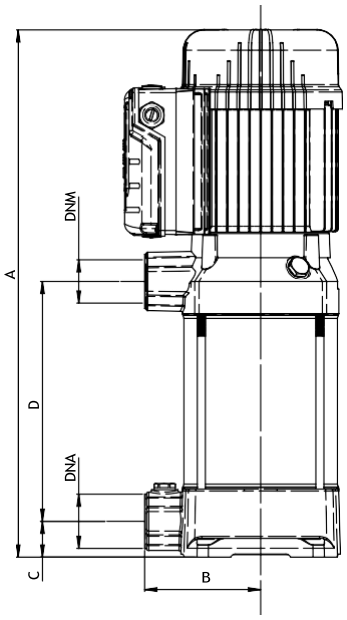
VS1/ MPINOX

Type	Motor rating P2	Current	Weight
VS1 MPINOX 4-30	0.50 kW	4.40 A	21 kg
VS1 MPINOX 4-50	0.84 kW	6.71 A	25 kg
VS1 MPINOX 4-70	1.17 kW	9.39 A	29 kg
VS1 MPINOX 4-90	1.50 kW	12.08 A	30 kg
VS1 MPINOX 4-120	2.00 kW	16.30 A	32 kg
VS1 MPINOX 6-30	0.67 kW	5.95 A	21 kg
VS1 MPINOX 6-50	1.10 kW	9.02 A	25 kg
VS1 MPINOX 6-70	1.50 kW	13.82 A	29 kg
VS1 MPINOX 6-90	2.00 kW	15.75 A	30 kg
VS1 MPINOX 8-30	1.00 kW	8.70 A	21 kg
VS1 MPINOX 8-50	1.50 kW	14.40 A	25 kg
VS1 MPINOX 8-70	1.90 kW	15.50 A	41 kg

VS1/MPINOX

FREQUENCY CONVERTER - SINGLE PHASE





DIMENSIONS [mm]

Type	A	B	C	D	F	G	I	DNA	DNM	E
VS1 MPINOX 4-30	416	115	35	130	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 4-50	470	115	35	184	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 4-70	524	115	35	238	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 4-90	578	115	35	292	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 4-120	660	115	35	373	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 6-30	416	115	35	130	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 6-50	470	115	35	184	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 6-70	524	115	35	238	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 6-90	578	115	35	292	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 8-30	416	115	35	130	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 8-50	470	115	35	184	220	80	180	1 1/4"	1 1/4"	213
VS1 MPINOX 8-70	524	115	35	373	220	80	180	1 1/4"	1 1/4"	213

VS3/MPINOX

FREQUENCY CONVERTER - THREE PHASE

- Pressure measurement with the possibility to manage 2 independent levels adjustable by means of a time added internally or with an external connection
- Internal clock
- Calculation of the speed of the motor
- Protection against dry running
- Over and under current protection

DESCRIPTION

VS3/MPINOX is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes. VS3/MPINOX represents a compact, essential and reliable solution which is easy to use; designed to offer great comfort and benefits in various applications such as: irrigation, pressurization and water transfer, residential, commercial and industrial uses. The VS3/MPINOX range is characterized by a simple and elegant design with a backlight graphic display which informs the user of the operating parameters in real time.

The operating principle is simple and effective. The VS3/MPINOX powers the electric motor of the pump on which it is mounted and, by means of a feedback system that uses a pressure transducer, it changes the supply frequency of the electric motor depending on the water demand in order to keep the output pressure of the pump constant, the value of which is set on the device (set point). VS3/MPINOX ensures high levels of efficiency and greater flexibility in performance, ensuring a high energy saving and making the use of other control devices unnecessary.

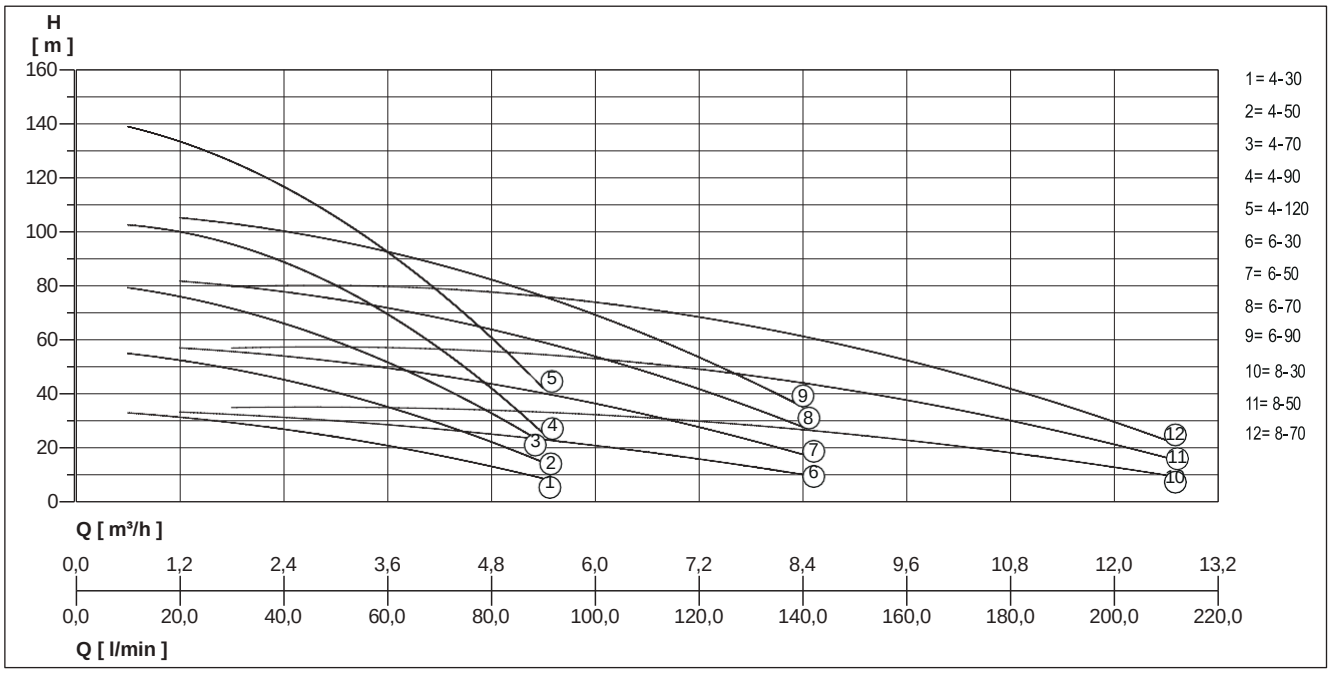
APPLICATIONS

- Pressurization systems
- Water supply
- Industry
- Construction
- Washes

VS3/MPINOX

FREQUENCY CONVERTER - THREE PHASE

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	0.6	1.2	2	2.4	3	3.6	4.2	5	5.4	6	7.2	8.4	9	11	13
VS3 MPINOX 4-30	Delivery head H [m]	33	31	30	27	24	21	17	13	9						
VS3 MPINOX 4-50		55	52	50	45	41	35	29	22	15						
VS3 MPINOX 4-70		79	76	72	67	59	51	43	33	22						
VS3 MPINOX 4-90		104	99	95	88	79	69	59	46	32						
VS3 MPINOX 4-120		138	134	127	117	105	92	78	60	43						
VS3 MPINOX 6-30			34	32	31	30	28	27	26	23	21	16	10			
VS3 MPINOX 6-50			58	56	53	51	49	47	44	41	37	28	17			
VS3 MPINOX 6-70			83	80	77	74	71	68	64	60	55	42	27			
VS3 MPINOX 6-90			107	103	99	95	92	87	83	77	71	54	34			
VS3 MPINOX 8-30				35	35	35	35	35	34	33	32	30	27	25	18	10
VS3 MPINOX 8-50				57	57	56	56	56	54	53	52	50	45	40	28	16
VS3 MPINOX 8-70				80	80	79	78	78	76	74	72	70	63	56	40	22
VS3 MPINOX 8-90				104	104	104	103	103	101	98	94	90	82	73	52	29
VS3 MPINOX 8-120				139	139	139	138	138	135	131	126	120	109	98	70	38

MECHANICAL DATA

Dry run protection	Yes	Diffuser	Technopolymer
Shaft	Stainless steel X5 CrNi 1810 (AISI 304)	Type of liquid	clean water without suspended solids or abrasive material
Impeller	Technopolymer	Temperature of the liquid max.	50 °C
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Suction height max.	6 m
		Gasket	NBR

ELECTRICAL DATA

Voltage	3/N/PE~400 V	Ambient temperature max.	40 °C
Type of enclosure	IP 55	Rotation speed	2850 rpm
Insulation class	F		

VS3/MPINOX

FREQUENCY CONVERTER - THREE PHASE

VS3/ MPINOX

Type	Motor rating P2	Current	Weight
VS3 MPINOX 4-30	0.50 kW	2.54 A	21 kg
VS3 MPINOX 4-50	0.84 kW	3.90 A	25 kg
VS3 MPINOX 4-70	1.17 kW	5.46 A	29 kg
VS3 MPINOX 4-90	1.50 kW	7.22 A	30 kg
VS3 MPINOX 4-120	2.00 kW	9.42 A	32 kg
VS3 MPINOX 6-30	0.67 kW	3.58 A	21 kg
VS3 MPINOX 6-50	1.10 kW	5.26 A	25 kg
VS3 MPINOX 6-70	1.50 kW	8.21 A	29 kg
VS3 MPINOX 6-90	2.00 kW	9.13 A	30 kg
VS3 MPINOX 8-30	1.00 kW	2.60 A	21 kg
VS3 MPINOX 8-50	1.50 kW	4.33 A	25 kg
VS3 MPINOX 8-70	1.90 kW	6.13 A	41 kg
VS3 MPINOX 8-90	3.00 kW	9.70 A	42 kg
VS3 MPINOX 8-120	4.00 kW	12.30 A	45 kg

Figure 1

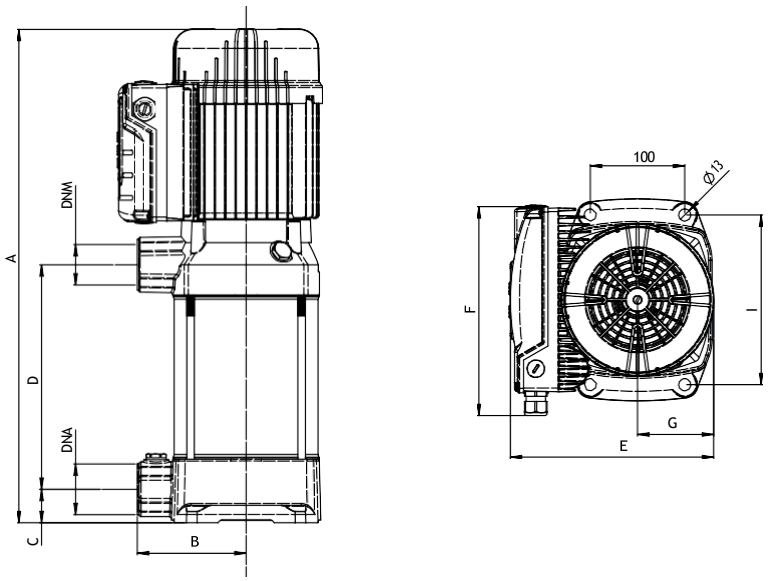
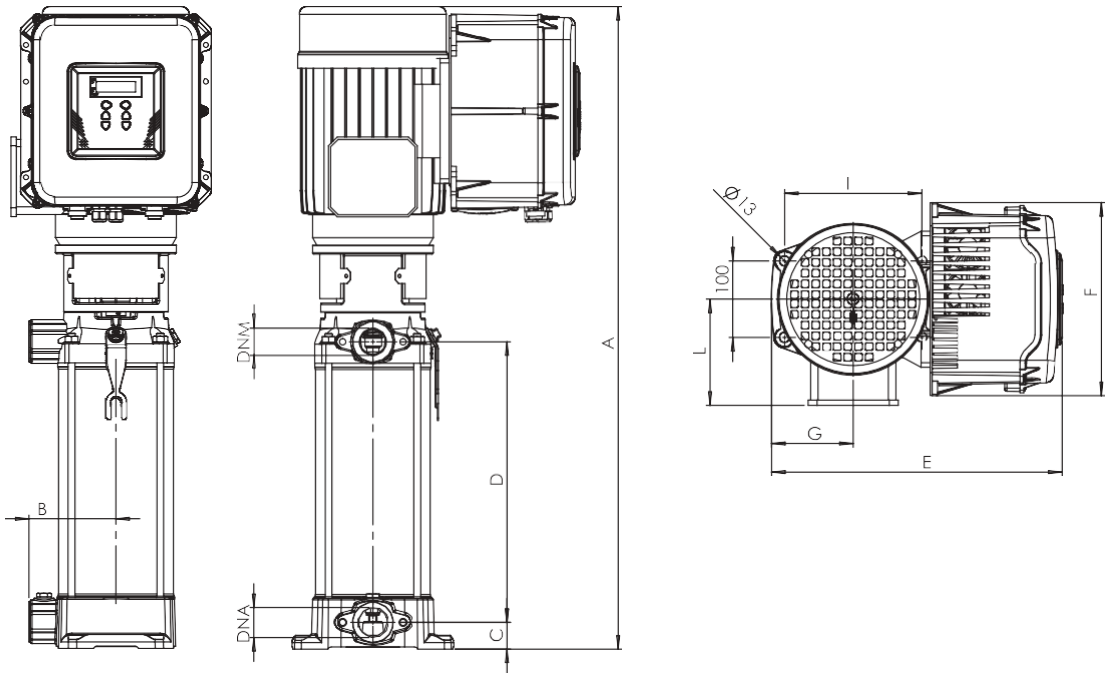


Figure 2



DIMENSIONS [mm]

Type	Fig.	A	B	C	D	F	G	I	L	DNA	DNM	E
VS3 MPINOX 4-30	1	416	115	35	130	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 4-50	1	470	115	35	184	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 4-70	1	524	115	35	238	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 4-90	1	578	115	35	292	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 4-120	1	660	115	35	373	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 6-30	1	416	115	35	130	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 6-50	1	470	115	35	184	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 6-70	1	524	115	35	238	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 6-90	1	578	115	35	292	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 8-30	1	416	115	35	130	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 8-50	1	470	115	35	184	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 8-70	1	524	115	35	373	220	80	180		1 1/4"	1 1/4"	213
VS3 MPINOX 8-90	2	730	115	35	292	253	105	180	140	1 1/4"	1 1/4"	370
VS3 MPINOX 8-120	2	855	115	35	373	253	105	180	145	1 1/4"	1 1/4"	380

SECTION 2

SURFACE PUMPS

JP
SURFACE PUMPS - SELF PRIMING

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SURFACE PUMPS - HORIZONTAL
TWO - STAGE

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JPINOX
SURFACE PUMPS - SELF PRIMING

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MPINOX
SURFACE PUMPS - VERTICAL
MULTISTAGE

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SP
SURFACE PUMPS - HORIZONTAL
SINGLE STAGE

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JP

SURFACE PUMPS - SELF-PRIMING

- Sturdy and resistant
- Self- priming
- Excellent priming capacity
- Many possible uses for residential market
- Wide range of performance levels for the residential market

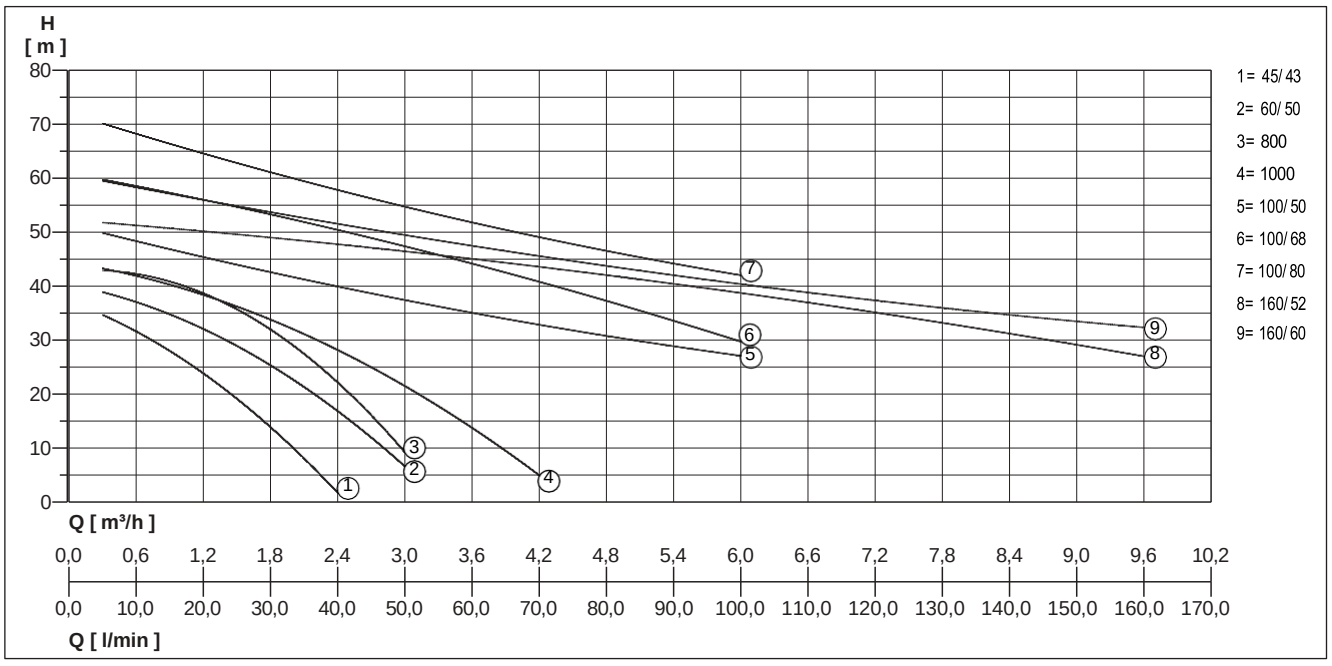
DESCRIPTION

The self-priming pumps in the JET range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.
- Lifting from wells or tanks

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0	0.3	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	6	7.8	9.6
JP 45/43 M	Delivery head H [m]	43.0		30.0	23.0	16.0	1.0							
JP 60/50 M		43.0		36.0	31.0	26.0	18.0	6.0						
JP 800 M/T			44.0		36.0	31.0	27.0	7.0						
JP 1000 M/T			45.0		36.0	32.0	28.0	25.0	15.0	3.0				
JP 100/50 M/T			50.0		45.0		40.0		35.0		31.0	27.0		
JP 100/68 M/T			60.0		55.5		49.0		47.5		34.5	30.5		
JP 100/80 T			70.0		64.3		58.0		51.5		46.5	42.0		
JP 160/52 M/T			52.0		49.5		48.0		45.0		42.0	38.7	33.2	27.0
JP 160/60 T			59.0		55.6		53.0		47.0		43.4	40.0	36.0	32.5

MECHANICAL DATA

Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	Type of liquid	clean water without suspended solids or abrasive material
Pump housing	Cast iron EN GJL 200	Temperature of the liquid max.	50 °C
Diffuser	Technopolymer	Suction height max.	8 m
Mechanical seal	Graphite	Gasket	NBR 70 shore
Contourface	Ceramic		

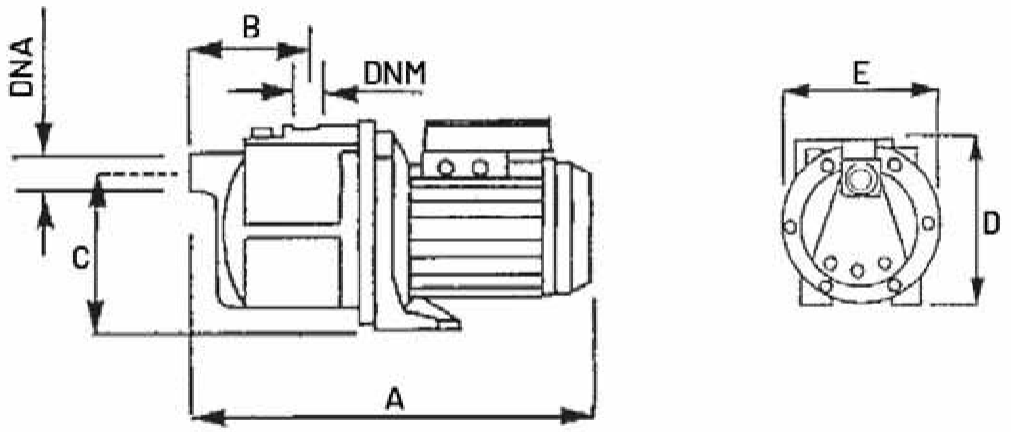
ELECTRICAL DATA

Type of enclosure	IP 44	Rotation speed	2850 rpm
Insulation class	F		

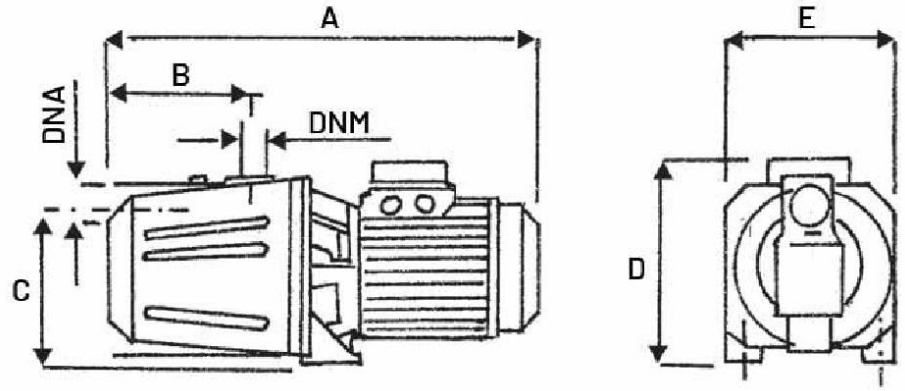
JP

Type	Voltage	Motor rating P1	Motor rating P2	Current	Motor housing	Weight
Operating pressure max.:6 bar, Impeller:Technopolymer with stainless steel shim ring						
JP 45/43 M	1/N/PE-230 V	0.6 kW	0.37 kW	3.0 A	Aluminum	8.2 kg
JP 60/50 M	1/N/PE-230 V	0.8 kW	0.35 kW	4.0 A	Aluminum	9.0 kg
Operating pressure max.:6 bar, Impeller:Technopolymer/Moulded brass alloy						
JP 800 M	1/N/PE-230 V	1.0 kW	0.75 kW	4.5 A	Cast iron EN GJL 200	14.2 kg
JP 800 T	3/PE-230/400 V	1.0 kW	0.75 kW	3.6 A/2.1 A	Cast iron EN GJL 200	14.2 kg
JP 1000 M	1/N/PE-230 V	1.1 kW	1.00 kW	5.0 A	Cast iron EN GJL 200	16.8 kg
JP 1000 T	3/PE-230/400 V	1.1 kW	1.00 kW	3.8 A/2.2 A	Cast iron EN GJL 200	16.8 kg
Operating pressure max.:10 bar, Impeller:Moulded brass alloy						
JP 100/50 M	1/N/PE-230 V	1.7 kW	1.10 kW	8.1 A	Cast iron EN GJL 200	25.5 kg
JP 100/50 T	3/PE-230/400 V	1.8 kW	1.10 kW	5.5 A/3.2 A	Cast iron EN GJL 200	25.5 kg
JP 100/68 M	1/N/PE-230 V	2.1 kW	1.50 kW	9.8 A	Cast iron EN GJL 200	26.6 kg
JP 100/68 T	3/PE-230/400 V	2.8 kW	1.50 kW	5.5 A/3.2 A	Cast iron EN GJL 200	26.6 kg
JP 100/80 T	3/PE-230/400 V	2.6 kW	2.20 kW	8.1 A/4.7 A	Cast iron EN GJL 200	28.1 kg
JP 160/52 M	1/N/PE-230 V	2.3 kW	1.50 kW	10.5 A	Cast iron EN GJL 200	26.6 kg
JP 160/52 T	3/PE-230/400 V	2.1 kW	1.50 kW	6.9 A/4.0 A	Cast iron EN GJL 200	26.6 kg
JP 160/60 T	3/PE-230/400 V	2.6 kW	2.20 kW	8.1 A/4.7 A	Cast iron EN GJL 200	28.1 kg

Version 45/43 and 60/50



Version 800- 1000



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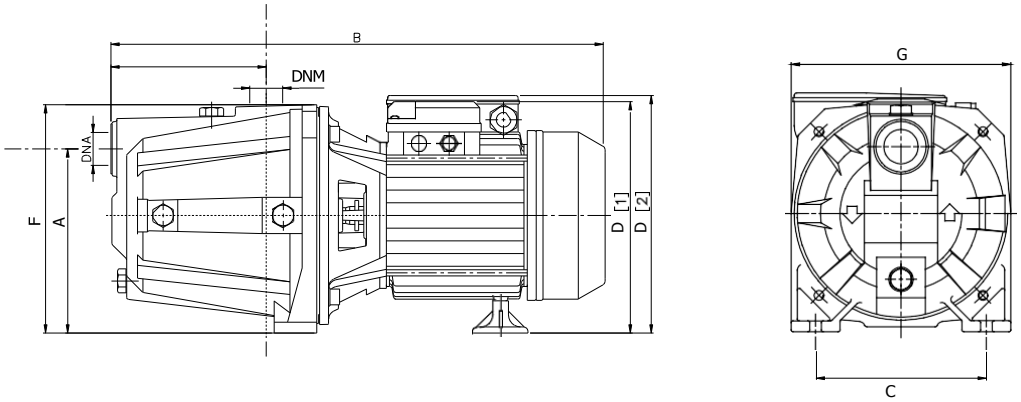


DIMENSIONS [mm]

Type	A	B	C	D	F	G	DNA	DNM	E
JP 45/43 M	351	93	130	180			1"	1"	174
JP 60/50 M	351	93	130	180			1"	1"	174
JP 800 M/T	400	147	160	190			1"	1"	182
JP 1000 M/T	425	147	160	190			1"	1"	182
JP 100/50 M/T	170	508	180	247	223	157	1 1/2"	1"	220
JP 100/68 M/T	170	508	180	247	223	157	1 1/2"	1"	220
JP 100/80 T	170	508	180		223	157	1 1/2"	1"	220
JP 160/52 M/T	170	508	180	247	223	157	1 1/2"	1"	220
JP 160/60 T	170	508	180		223	157	1 1/2"	1"	220

JPINOX

SURFACE PUMPS - SELF-PRIMING

- Self- priming
- Excellent priming capacity
- Stainless steel pump body
- Many possible uses for the residential market
- Quite operation
- Compact dimension

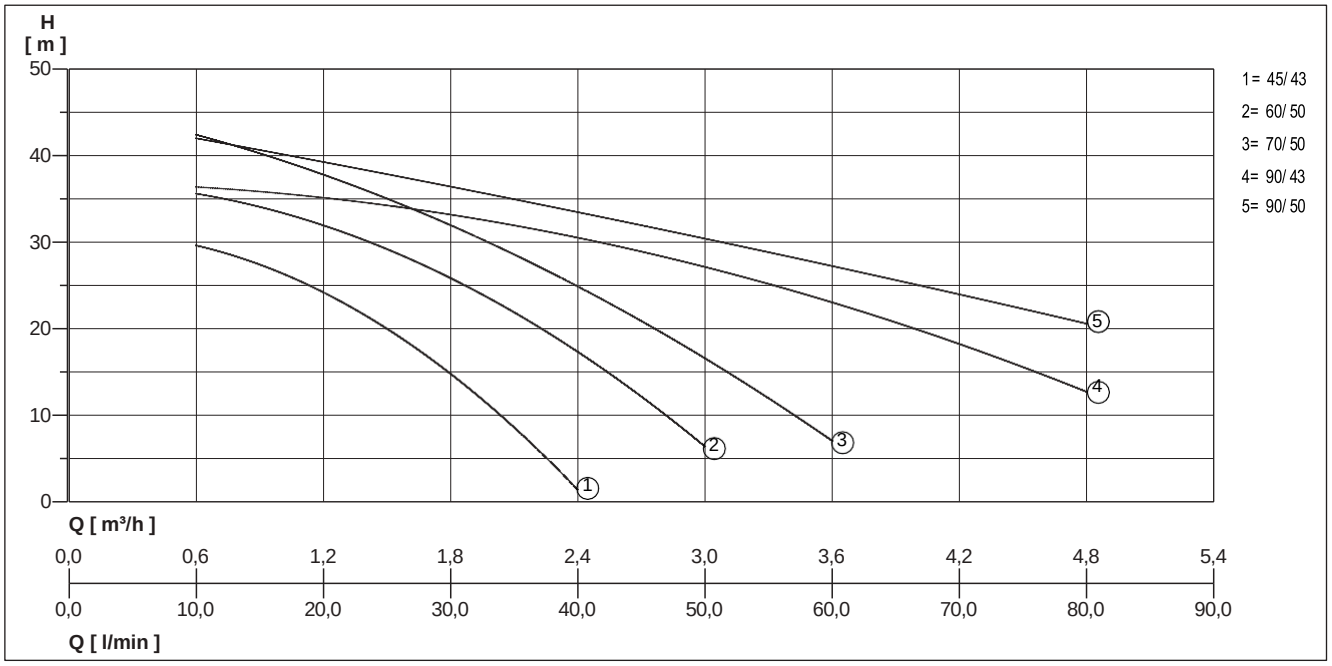
DESCRIPTION

The self-priming pumps in the JPINOX range combine the advantages and practical features of centrifugal pumps with the functionality of self-priming pumps, as well as quality performance. The Venturi pipe system on these pumps guarantees optimal hydraulic performance and impressive suction capacity, maintaining priming even in the presence of air or gas bubbles trapped in the water.

APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Washing, garden irrigation, supply to fountains, transfers.
- Lifting from wells or tanks

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8
JPINOX 45/43 M	Delivery head H [m]	43.0	30.0	23.0	16.0	1.0				
JPINOX 60/50 C/M		46.0	36.0	31.0	26.0	18.0	6.0			
JPINOX 70/50 C		48.0	42.5	37.5	32.0	25.0	16.5	7.0		20.0
JPINOX 70/50 M		48.0	42.5	37.5	32.0	25.0	16.5	7.0		10.0
JPINOX 90/43 C/M		43.0	38.0	34.0	32.0	29.0	27.0	25.0	21.0	10.0
JPINOX 90/50 C/M		50.0	42.0	39.0	37.0	33.0	30.0	27.0	25.0	20.0

JPINOX
SURFACE PUMPS - SELF-PRIMING

MECHANICAL DATA

Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	Mechanical seal Contourface	Graphite Ceramic
Impeller	Technopolymer with stainless steel shim ring	Operating pressure max.	6 bar
Motor housing	Die-cast aluminium	Type of liquid	clean water without suspended solids or abrasive material
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Temperature of the liquid max.	50 °C
Diffuser	Technopolymer	Suction height max.	8 m
		Gasket	NBR 70 shore

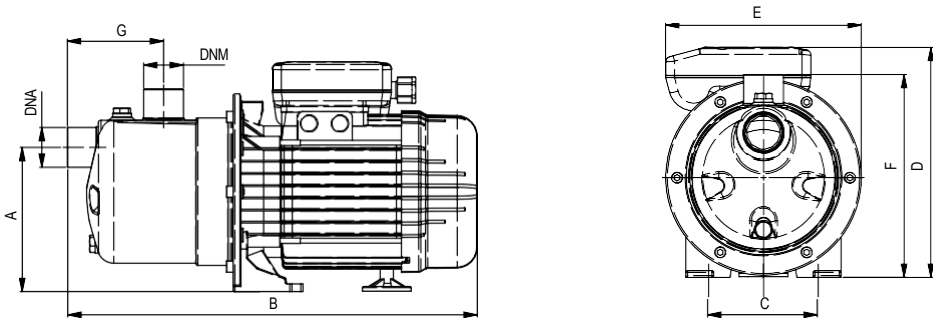
ELECTRICAL DATA

Voltage	1/N/PE-230 V	Ambient temperature max.	40 °C
Type of enclosure	IP 44	Rotation speed	2850 rpm
Insulation class	F		

JPINOX

Type	Motor rating P1	P2	Current	Plug	Weight
JPINOX 45/43 M	0.6 kW	0.37 kW	3.0 A	Without	4.7 kg
JPINOX 60/50 C	0.8 kW	0.55 kW	4.0 A	Safety	8.2 kg
JPINOX 60/50 M	0.8 kW	0.55 kW	4.0 A	Without	8.2 kg
JPINOX 70/50 C	1.0 kW	0.70 kW	4.5 A	Safety	9.5 kg
JPINOX 70/50 M	1.0 kW	0.70 kW	4.5 A	Without	9.5 kg
JPINOX 90/43 C	1.3 kW	0.75 kW	6.5 A	Safety	11.0 kg
JPINOX 90/43 M	1.3 kW	0.75 kW	6.5 A	Without	11.0 kg
JPINOX 90/50 C	1.5 kW	0.90 kW	7.0 A	Safety	13.0 kg
JPINOX 90/50 M	1.5 kW	0.90 kW	7.0 A	Without	13.0 kg

Version M



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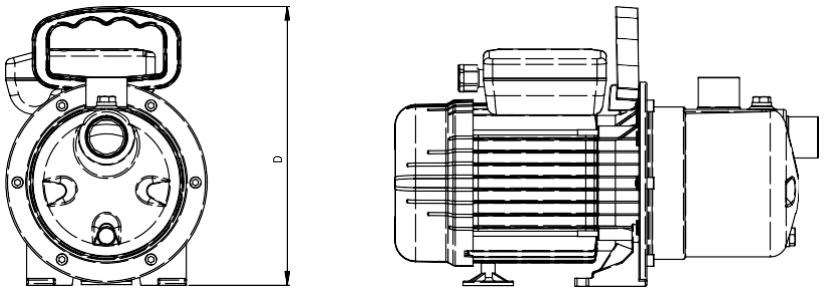


DIMENSIONS [mm]

Type	A	B	C	D	F	G	DNA	DNM	E
JPINOX 45/43 M	130	352	100	199	185	87	1″	1″	177
JPINOX 60/50 C	130	370	100	245	185	87	1″	1″	177
JPINOX 60/50 M	130	370	100	207	185	87	1″	1″	177
JPINOX 70/50 C	143	351	100	245	200	76	1″	1″	177
JPINOX 70/50 M	143	351	100	207	200	76	1″	1″	177
JPINOX 90/43 C	158	395	141	275	214	98	1 1/4"	1″	205
JPINOX 90/43 M	158	395	141	207	214	98	1 1/4"	1″	205
JPINOX 90/50 C	158	425	141	275	214	98	1 1/4"	1″	218
JPINOX 90/50 M	158	425	141	230	214	98	1 1/4"	1″	218

SP

SURFACE PUMPS - HORIZONTAL SINGLE STAGE

- Highly reliable
- Sturdy and resistant
- High hydraulic performance
- Quite operation

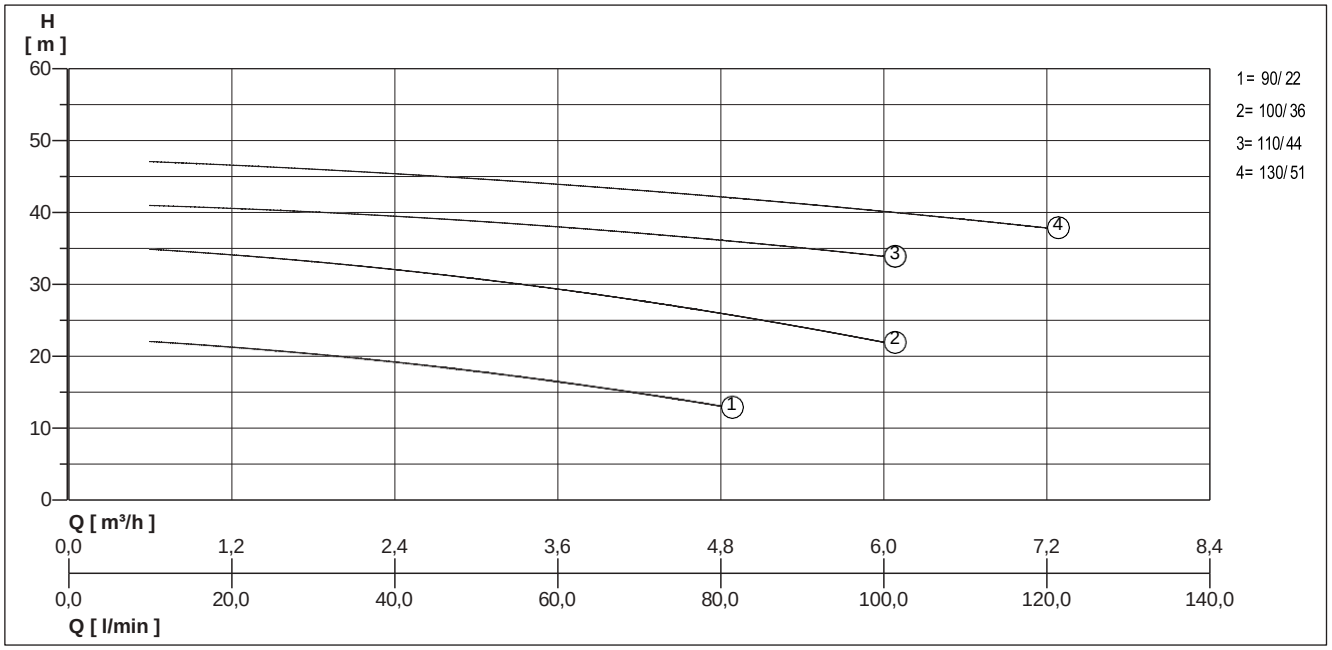
DESCRIPTION

The SP series of single impeller centrifugal pumps are silent with optimal hydraulic performance.

APPLICATIONS

- Lifting from wells for irrigation
- Pressurization systems
- Pressurization and supply
- Washing

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0.6	1.8	3	4.8	6	7.2
SP 90/22 M/T	Delivery head H [m]	22	20	18	13		
SP 100/36 M/T		35	33	31	26	22	
SP 110/44 M/T		41	40	39	36	34	
SP 130/51 M/T		47	46	45	42	40	38

SP

SURFACE PUMPS - HORIZONTAL SINGLE STAGE

MECHANICAL DATA

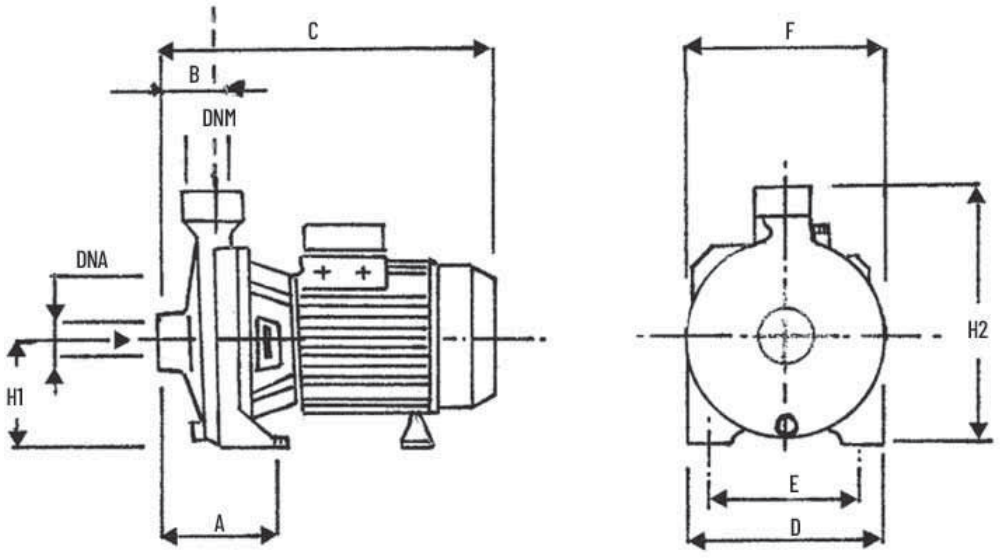
Shaft	Stainless steel X 12 CrNiS 1809 (AISI 416)	Contourface	Ceramic
		Type of liquid	clear or slightly turbid non-abrasive water
Motor housing	Cast iron EN GJL 200		
Pump housing	Cast iron EN GJL 200	Suction height max.	5 m
Mechanical seal	Graphite	Gasket	NBR 70 shore

ELECTRICAL DATA

Type of enclosure	IP 44	Rotation speed	2850 rpm
Insulation class	F		

SP

Type	Voltage	Motor rating P1	P2	Current	Impeller	Operating pressure max.	Temperature of the liquid max.	Weight
SP 90/22 M	1/N/PE-230 V	0.75 kW	0.35 kW	3.6 A	Technopolymer	6 bar	50 °C	6.5 kg
SP 90/22 T	3/PE-230/400 V	0.75 kW	0.35 kW	2.4 A/1.4 A	Technopolymer	6 bar	50 °C	6.5 kg
SP 100/36 M	1/N/PE-230 V	1.25 kW	0.75 kW	5.5 A	Brass	8 bar	90 °C	11.0 kg
SP 100/36 T	3/PE-230/400 V	1.25 kW	0.75 kW	3.8 A/2.2 A	Brass	8 bar	90 °C	11.0 kg
SP 110/44 M	1/N/PE-230 V	1.70 kW	1.10 kW	8.0 A	Brass	8 bar	90 °C	20.0 kg
SP 110/44 T	3/PE-230/400 V	1.80 kW	1.10 kW	5.5 A/3.2 A	Brass	8 bar	90 °C	20.0 kg
SP 130/51 M	1/N/PE-230 V	2.40 kW	1.50 kW	10.3 A	Brass	8 bar	90 °C	23.0 kg
SP 130/51 T	3/PE-230/400 V	2.10 kW	1.50 kW	6.9 A/4.0 A	Brass	8 bar	90 °C	23.0 kg



DIMENSIONS [mm]

Type	A	B	C	D	F	H1	H2	DNA	DNM	E
SP 90/22 M/T	75	43	267	150	160	82	202	1"	1"	110
SP 100/36 M/T	82	44	310	180	185	107	242	1"	1"	140
SP 110/44 M/T	88	45	350	194	200	100	252	1 1/4"	1"	155
SP 130/51 M/T	88	45	361	220	225	115	285	1 1/4"	1"	180

TP

SURFACE PUMPS - HORIZONTAL TWO-STAGE

- High hydraulic performance
- Highly reliable
- Sturdy and resistant
- Quite operation

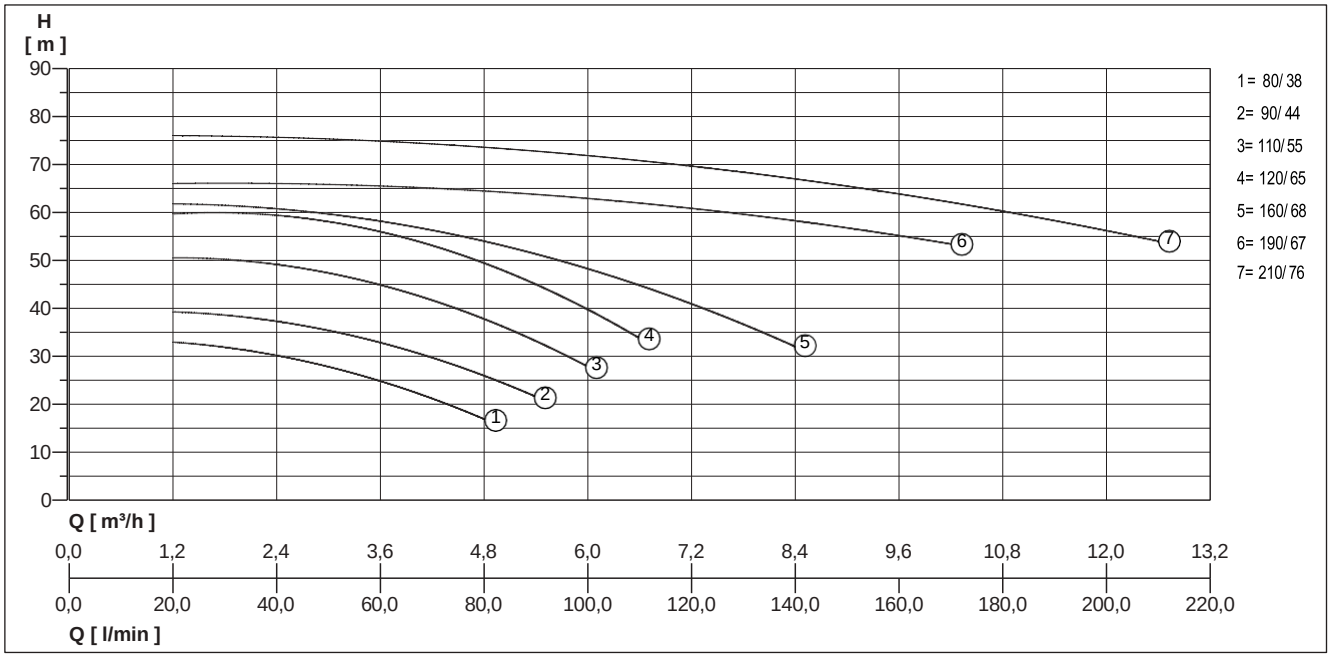
DESCRIPTION

The two opposite impellers with balanced axial thrust allow for high efficiency, making them particularly suitable for civil and industrial use, autoclave units, etc.

APPLICATIONS

- Pressurization systems
- Small automatic systems for garden irrigation
- Handling of non-aggressive liquids
- Washing systems

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	1.2	2.4	3	4.8	5.4	6	6.6	8.4	9.6	10.8	12
TP 80/38 M/T	Delivery head H [m]	33.0	30.2	27.9	17.0							
TP 90/44 M/T		39.5	37.0	35.2	27.0	21.0						
TP 110/55 M/T		50.8	48.8	47.1	38.4	33.4	27.5					
TP 120/65 M		60.5	58.6	56.9	49.8	46.5	40.3	32.5				
TP 160/68 T			60.5	59.3	54.1	51.6	48.4	44.6	32.0			
TP 190/67 T				67.0	64.8	63.9	62.5	62.0	58.0	53.5		
TP 210/76 T				76.5	73.9	72.9	71.8	70.5	66.8	62.0	58.3	54.0

TP
SURFACE PUMPS - HORIZONTAL TWO-STAGE

MECHANICAL DATA

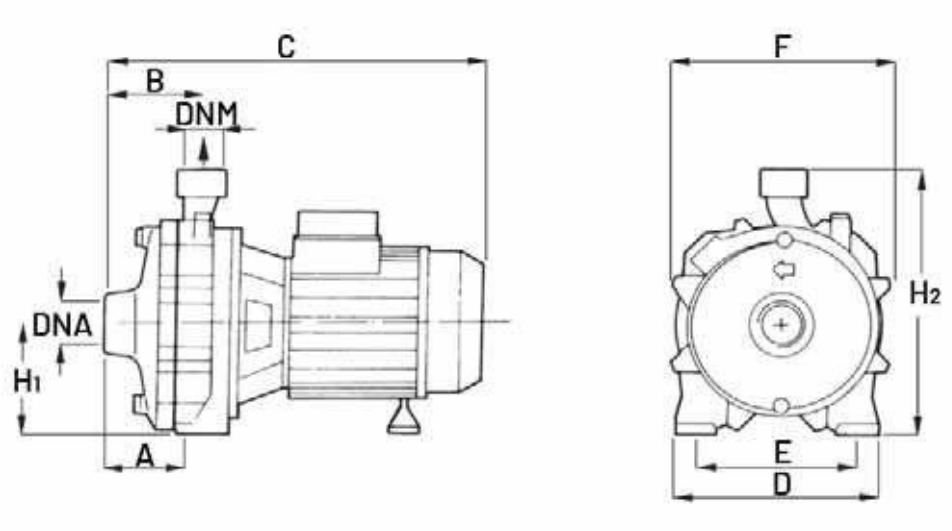
Pump housing	Cast iron EN GJL 200	Type of liquid	clear or slightly turbid non-abrasive water
Mechanical seal	Graphite		
Contour face	Ceramic	Suction height max.	5 m
		Gasket	NBR

ELECTRICAL DATA

Type of enclosure	IP 44	Ambient temperature max.	40 °C
Insulation class	F	Rotation speed	2850 rpm

TP

Type	Voltage	Motor rating P1	P2	Current	Shaft	Motor housing	Temperature of the liquid max.	Weight
Operating pressure max.:6 bar, Impeller:Technopolymer								
TP 80/38 M	1/N/PE-230 V	1.1 kW	0.55 kW	5.0 A	AISI 416	Aluminum	40 °C	13.5 kg
TP 80/38 T	3/PE-230/400 V	1.1 kW	0.55 kW	3.4 A/2.0 A	AISI 416	Aluminum	40 °C	13.5 kg
TP 90/44 M	1/N/PE-230 V	1.4 kW	0.74 kW	6.1 A	AISI 416	Aluminum	40 °C	15.0 kg
TP 90/44 T	3/PE-230/400 V	0.9 kW	0.74 kW	2.9 A/1.7 A	AISI 416	Aluminum	40 °C	15.0 kg
Operating pressure max.:10 bar, Impeller:Brass								
TP 110/55 M	1/N/PE-230 V	1.9 kW	1.10 kW	8.6 A	AISI 303	Cast iron	90 °C	25.0 kg
TP 110/55 T	3/PE-230/400 V	1.8 kW	1.10 kW	5.5 A/3.2 A	AISI 303	Cast iron	90 °C	25.0 kg
TP 120/65 M	1/N/PE-230 V	2.4 kW	1.50 kW	10.8 A	AISI 303	Cast iron	90 °C	27.0 kg
TP 120/65 T	3/PE-230/400 V	2.1 kW	1.50 kW	6.9 A/4.0 A	AISI 303	Cast iron	90 °C	27.0 kg
TP 160/68 T	3/PE-230/400 V	2.6 kW	2.20 kW	8.1 A/4.7 A	AISI 303	Cast iron	90 °C	27.0 kg
TP 190/67 T	3/PE-230/400 V	4.1 kW	3.00 kW	12.5 A/7.2 A	AISI 304	Cast iron	90 °C	42.5 kg
TP 210/76 T	3/PE-230/400 V	4.6 kW	4.00 kW	15.1 A/8.7 A	AISI 304	Cast iron	90 °C	46.3 kg



DIMENSIONS [mm]

Type	A	B	C	D	F	H1	H2	DNA	DNM	E
TP 80/38 M/T	58	73	336	180	183	97	227	1"	1"	140
TP 90/44 M/T	58	73	336	180	183	97	227	1"	1"	140
TP 110/55 M/T	66	86	394	195	209	110	265	1 1/4"	1"	155
TP 120/65 M	66	86	410	195	209	110	265	1 1/4"	1"	155
TP 160/68 T	66	86	410	195	194	110	265	1 1/4"	1"	155
TP 190/67 T	72	96	467	230	228	133	309	1 1/2"	1 1/4"	180
TP 210/76 T	72	96	467	230	228	133	309	1 1/2"	1 1/4"	180

MPINOX

SURFACE PUMPS - VERTICAL MULTISTAGE

- High hydraulic efficiency
- Strong and resistant
- Motor designed according to EN regulations
- Many possible uses for the residential market

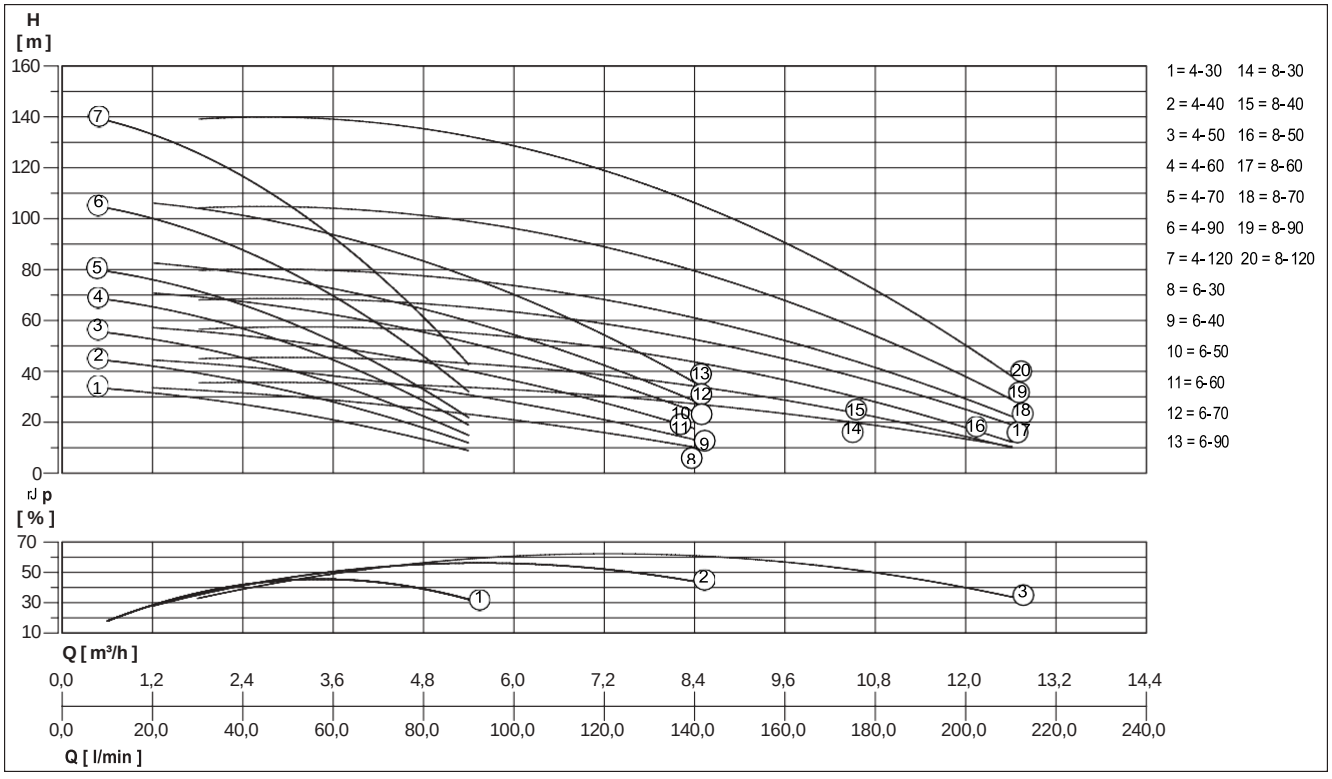
DESCRIPTION

The MPINOX series vertical multi-stage centrifugal pumps are particularly suitable for the realization of lifting units, especially in the cases where high efficiency and silence are required, with compact dimensions.

APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Fire protection systems
- Washing, garden irrigation, supply to fountains, transfers.

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

MPINOX

SURFACE PUMPS - VERTICAL MULTISTAGE

Type	Flow rate O [m3/h]	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	6	7.2	8.4	9	10.8	12.6
MPINOX 4-30 M/T	Delivery head H [m]	33		30	27	24	21	17		9						
MPINOX 4-40 M/T		44		40	36	32	28	23		12						
MPINOX 4-50 M/T		55		50	45	41	35	29		15						
MPINOX 4-60 M/T		68		62	57	51	44	37		19						
MPINOX 4-70 M/T		79		72	67	59	51	43		22						
MPINOX 4-90 T		104		95	88	79	69	59		32						
MPINOX 4-120 T		138		127	117	105	92	78		43						
MPINOX 6-30 M/T			34		31		28		26		21	16	10			
MPINOX 6-40 M/T			45		41		38		34		28	21	13			
MPINOX 6-50 M/T			58		53		49		44		37	28	17			
MPINOX 6-60 M/T			71		66		61		55		47	36	23			
MPINOX 6-70 T			83		77		71		64		55	42	27			
MPINOX 6-90 T			107		99		92		83		71	54	34			
MPINOX 8-30 M/T				35			35			33		30		25	18	10
MPINOX 8-40 M/T				45			44			42		39		32	20	11
MPINOX 8-50 M/T				57			56			53		50		40	28	16
MPINOX 8-60 T				68			67			64		60		48	34	19
MPINOX 8-70 T				80			78			74		70		56	40	22
MPINOX 8-90 T				104			103			98		90		73	52	29
MPINOX 8-120 T				139			138			131		120		98	70	38

MECHANICAL DATA

Shaft	Stainless steel X5 CrNi 1810 (AISI 304)	Type of liquid	clean water without suspended solids or abrasive material
Impeller	Technopolymer	Temperature of the liquid max.	50 °C
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Suction height max.	6 m
		Gasket	NBR
Diffuser	Technopolymer		

ELECTRICAL DATA

Insulation class	F	Rotation speed	2850 rpm
Ambient temperature max.	40 °C		

MPINOX

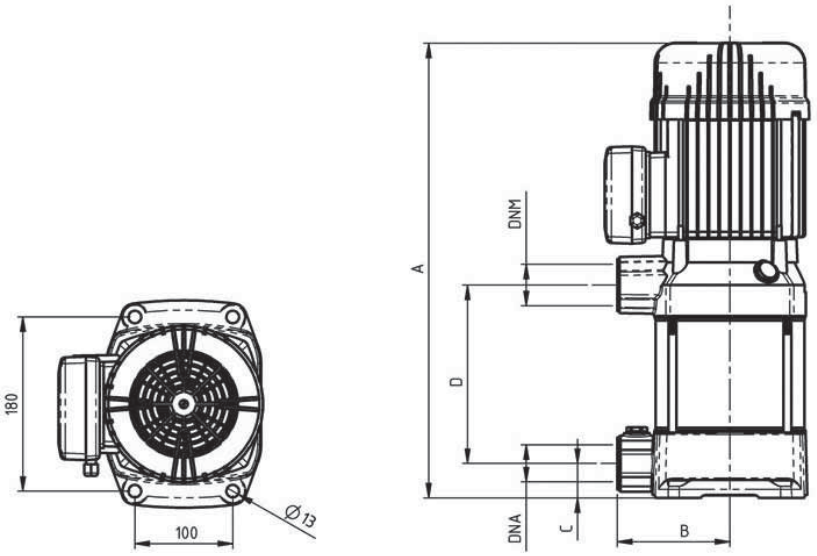
SURFACE PUMPS - VERTICAL MULTISTAGE

MPINOX

Type	Voltage	Motor rating P1	P2	Current	Type of enclosure	Operating pressure max.	Weight
Mechanical seal:, Contourface:							
MPINOX 4-30 M	1/N/PE-230 V	0.86 kW	0.50 kW	3.6 A	IP 44	9 bar	19 kg
MPINOX 4-30 T	3/PE-230/400 V	0.73 kW	0.50 kW	2.6 A/1.5 A	IP 44	9 bar	19 kg
MPINOX 4-40 M	1/N/PE-230 V	1.00 kW	0.67 kW	4.4 A	IP 44	9 bar	21 kg
MPINOX 4-40 T	3/PE-230/400 V	0.97 kW	0.67 kW	3.1 A/1.8 A	IP 44	9 bar	21 kg
MPINOX 4-50 M	1/N/PE-230 V	1.30 kW	0.84 kW	5.3 A	IP 44	9 bar	23 kg
MPINOX 4-50 T	3/PE-230/400 V	1.16 kW	0.84 kW	4.0 A/2.3 A	IP 44	9 bar	23 kg
MPINOX 4-60 M	1/N/PE-230 V	1.50 kW	1.00 kW	6.6 A	IP 44	9 bar	25 kg
MPINOX 4-60 T	3/PE-230/400 V	1.40 kW	1.00 kW	4.3 A/2.5 A	IP 44	9 bar	25 kg
MPINOX 4-70 M	1/N/PE-230 V	1.80 kW	1.17 kW	7.7 A	IP 44	9 bar	27 kg
MPINOX 4-70 T	3/PE-230/400 V	1.70 kW	1.17 kW	5.0 A/2.8 A	IP 44	9 bar	27 kg
MPINOX 4-90 T	3/PE-230/400 V	1.90 kW	1.50 kW	7.1 A/4.0 A	IP 44	12 bar	28 kg
MPINOX 4-120 T	3/PE-230/400 V	2.70 kW	2.00 kW	8.5 A/4.8 A	IP 44	16 bar	30 kg
MPINOX 6-30 M	1/N/PE-230 V	1.00 kW	0.67 kW	4.4 A	IP 44	9 bar	19 kg
MPINOX 6-30 T	3/PE-230/400 V	0.97 kW	0.67 kW	3.1 A/1.8 A	IP 44	9 bar	19 kg
MPINOX 6-40 M	1/N/PE-230 V	1.36 kW	0.90 kW	6.4 A	IP 44	9 bar	21 kg
MPINOX 6-40 T	3/PE-230/400 V	1.20 kW	0.90 kW	2.3 A/4.0 A	IP 44	9 bar	21 kg
MPINOX 6-50 M	1/N/PE-230 V	1.60 kW	1.10 kW	7.0 A	IP 44	9 bar	23 kg
MPINOX 6-50 T	3/PE-230/400 V	1.40 kW	1.10 kW	4.7 A/2.6 A	IP 44	9 bar	23 kg
MPINOX 6-60 M	3/PE-230/400 V	1.90 kW	1.30 kW	8.0 A	IP 44	9 bar	25 kg
MPINOX 6-60 T	3/PE-230/400 V	1.70 kW	1.30 kW	5.3 A/3.0 A	IP 44	9 bar	25 kg
MPINOX 6-70 T	3/PE-230/400 V	2.00 kW	1.50 kW	7.2 A/3.8 A	IP 44	9 bar	27 kg
MPINOX 6-90 T	3/PE-230/400 V	2.60 kW	2.00 kW	8.2 A/4.5 A	IP 44	12 bar	28 kg
MPINOX 8-30 M	1/N/PE-230 V	1.40 kW	1.00 kW	6.3 A	IP 44	9 bar	19 kg
MPINOX 8-30 T	3/PE-230/400 V	1.30 kW	1.00 kW	4.0 A/2.3 A	IP 44	9 bar	19 kg
MPINOX 8-40 M	1/N/PE-230 V	1.70 kW	1.20 kW	7.8 A	IP 44	9 bar	21 kg
MPINOX 8-40 T	3/PE-230/400 V	1.70 kW	1.20 kW	5.7 A/3.3 A	IP 44	9 bar	21 kg
MPINOX 8-50 M	1/N/PE-230 V	2.20 kW	1.50 kW	9.5 A	IP 44	9 bar	23 kg
MPINOX 8-50 T	3/PE-230/400 V	2.10 kW	1.50 kW	6.0 A/3.7 A	IP 44	9 bar	23 kg
MPINOX 8-60 T	3/PE-230/400 V	2.40 kW	1.70 kW	6.7 A/4.7 A	IP 44	9 bar	25 kg
MPINOX 8-70 T	3/PE-230/400 V	2.50 kW	1.90 kW	7.0 A/4.9 A	IP 44	9 bar	27 kg
Mechanical seal:Graphite/ Silicon Carbide , Contour face:Aluminium Oxide / Graphite							
MPINOX 8-90 T	3/PE-230/400 V	3.20 kW	3.00 kW	10.2 A/5.9 A	IP 55	20 bar	36 kg
MPINOX 8-120 T	3/PE-230/400 V	4.60 kW	4.00 kW	13.5 A/7.6 A	IP 55	20 bar	39 kg

MPINOX

SURFACE PUMPS - VERTICAL MULTISTAGE



DIMENSIONS [mm]

Type	A	B	C	D	DNA	DNM
MPINOX 4-30 M/T	416	115	35	130	1 1/4"	1 1/4"
MPINOX 4-40 M/T	443	115	35	157	1 1/4"	1 1/4"
MPINOX 4-50 M/T	470	115	35	184	1 1/4"	1 1/4"
MPINOX 4-60 M/T	497	115	35	211	1 1/4"	1 1/4"
MPINOX 4-70 M/T	524	115	35	238	1 1/4"	1 1/4"
MPINOX 4-90 T	578	115	35	292	1 1/4"	1 1/4"
MPINOX 4-120 T	660	115	35	373	1 1/4"	1 1/4"
MPINOX 6-30 M/T	416	115	35	130	1 1/4"	1 1/4"
MPINOX 6-40 M/T	443	115	35	157	1 1/4"	1 1/4"
MPINOX 6-50 M/T	470	115	35	184	1 1/4"	1 1/4"
MPINOX 6-60 M/T	497	115	35	211	1 1/4"	1 1/4"
MPINOX 6-70 T	524	115	35	238	1 1/4"	1 1/4"
MPINOX 6-90 T	578	115	35	292	1 1/4"	1 1/4"
MPINOX 8-30 M/T	416	115	35	130	1 1/4"	1 1/4"
MPINOX 8-40 M/T	443	115	35	157	1 1/4"	1 1/4"
MPINOX 8-50 M/T	470	115	35	184	1 1/4"	1 1/4"
MPINOX 8-60 T	497	115	35	211	1 1/4"	1 1/4"
MPINOX 8-70 T	524	115	35	238	1 1/4"	1 1/4"
MPINOX 8-90 T	730	115	35	292	1 1/4"	1 1/4"
MPINOX 8-120 T	855	115	35	373	1 1/4"	1 1/4"

SECTION 3

PUMPS FOR OPEN AND DRILLED WELLS

DP
PUMPS FOR OPEN AND DRILLED WELLS

PAGE 32

WP
PUMPS FOR OPEN AND DRILLED WELLS

PAGE 37

DPT
PUMPS FOR OPEN AND DRILLED WELLS

PAGE 34

DP

PUMPS FOR OPEN AND DRILLED WELLS

- 32 mm elbow fitting hose supplied
- Automatic version with float switch
- Ready to use
- 100% stainless steel

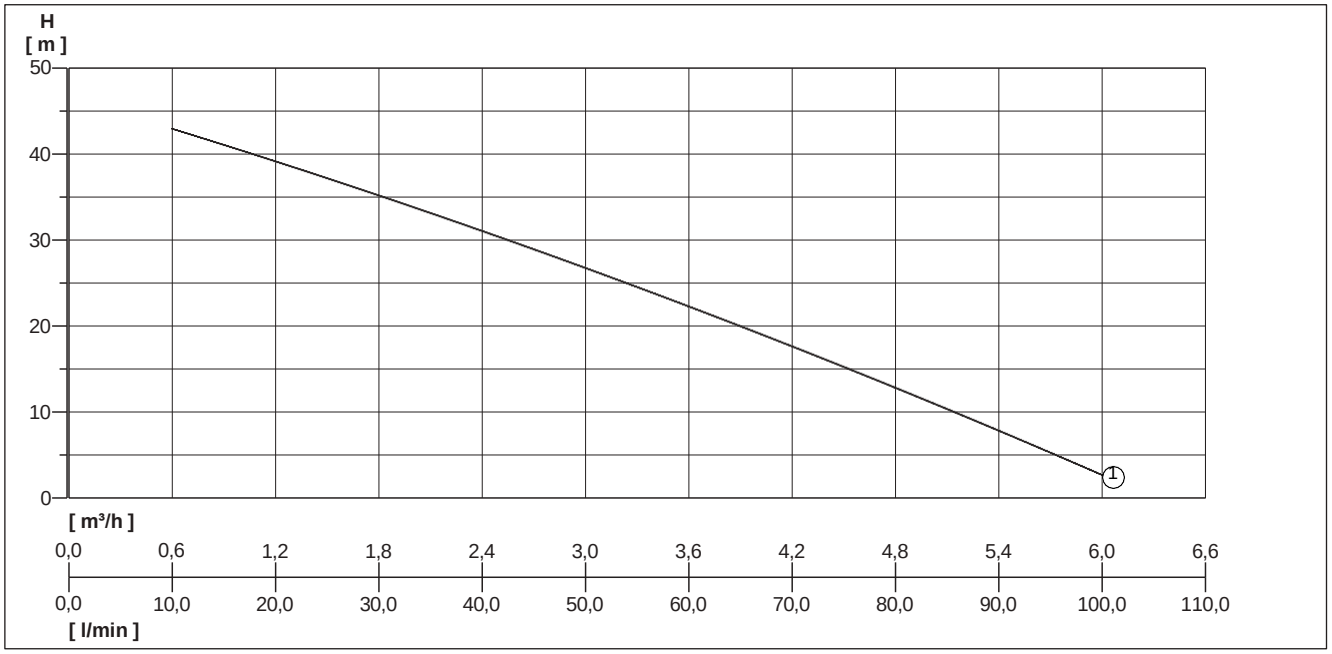
DESCRIPTION

DP submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc.

APPLICATIONS

- Lifting of water from traditional wells
- Installations in tanks inside homes for the pressurization of systems.
- Small automatic systems for garden irrigation
- Surface irrigation

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0	1.2	2.4	3.6	4.8	6
DP-MAN/DP-AUT	Delivery head H [m]	46	39	31	23	12	3

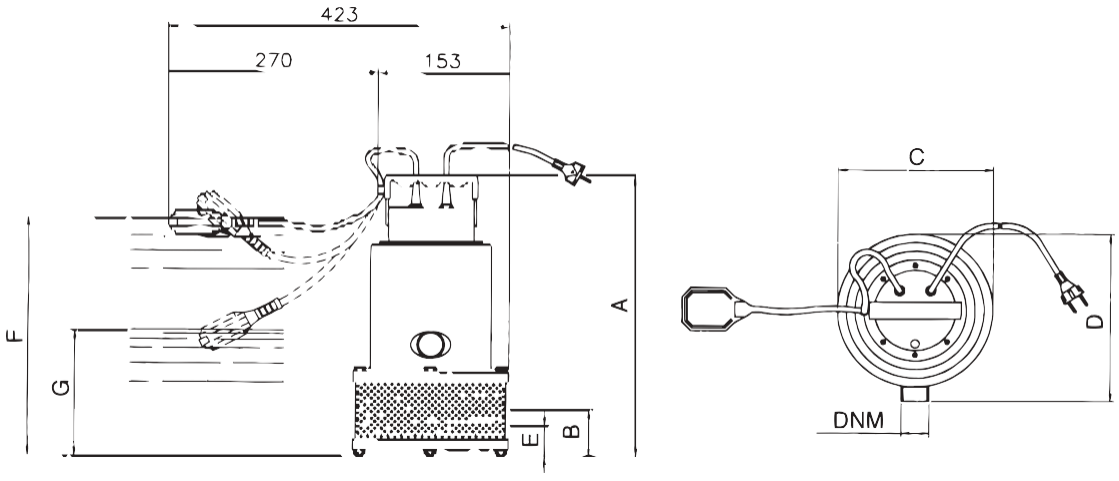
DP
PUMPS FOR OPEN AND DRILLED WELLS

MECHANICAL DATA

Free passage	1.5 mm	Diffuser	Technopolymer
Bearing	Self-lubricating ball bearings.	Mechanical seal	Graphite. Lubricated in oil chamber
Oil chamber	Yes		
Shaft	Stainless steel X5 CrNi 1810 (AISI 304) with ceramic bushing in the points of wear of the seals.	Contourface	Ceramic. Lubricated in oil chamber
		Type of liquid	clean water without suspended solids or abrasive material
Impeller	Technopolymer	Temperature of the liquid max.	40 °C
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Suction height max.	10 m
		Weight	9 kg
Submersible	Yes		

ELECTRICAL DATA

Voltage	1/N/PE-230 V	Type of enclosure	IP 68
Motor rating P1	1.2 kW	Insulation class	F
Motor rating P2	0.8 kW	Plug	Safety
Current	5 A	Rotation speed	2850 rpm
Power line	15m H07RN-F		



DIMENSIONS [mm]

Type	A	B	C	D	F	G	DNM	E
DP-MAN	406	162	178	182	490	260	1 1/4"	50
DP-AUT	406	162	178	182	490	260	1 1/4"	60

DPT

PUMPS FOR OPEN AND DRILLED WELLS

- 100% stainless steel
- Ready to use
- Automatic version with float switch

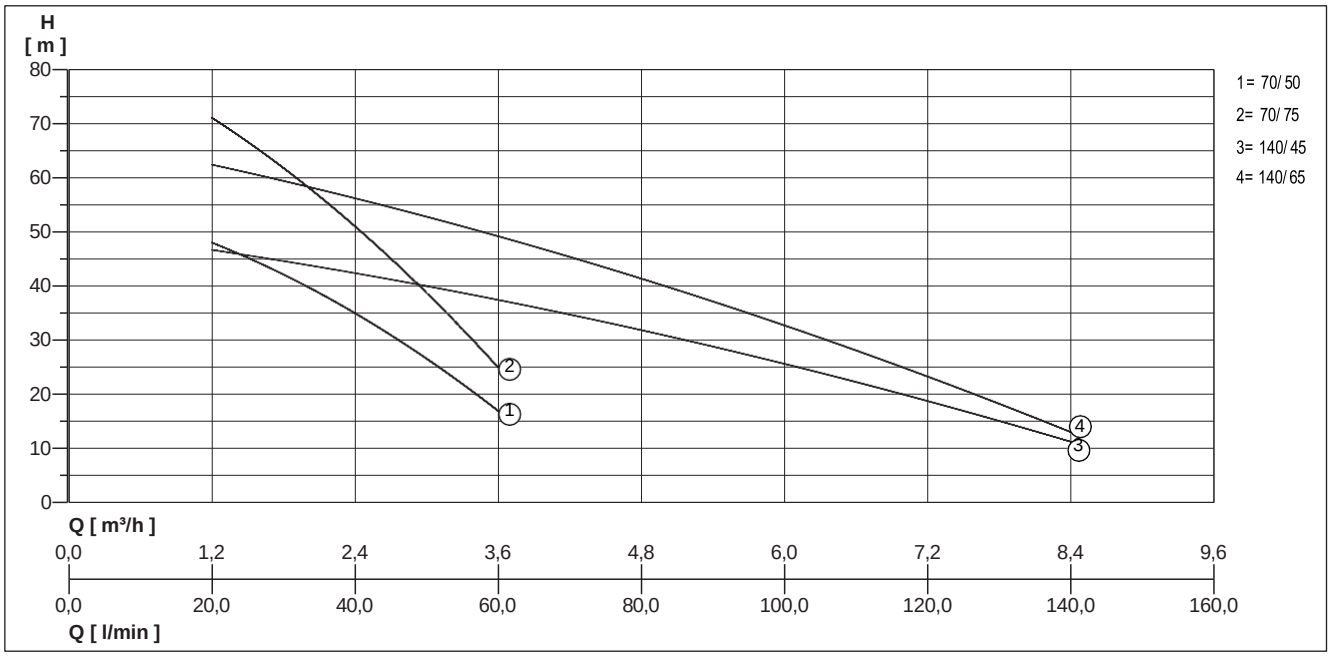
DESCRIPTION

DPT submersible pumps are ready to use and install in traditional wells, water deposits, collection tanks, fresh water courses, lakes etc. Automatic version equipped with float switch.

APPLICATIONS

- Lifting of water from traditional wells
- Installations in tanks inside homes for the pressurization of systems.
- Small automatic systems for garden irrigation
- Surface irrigation

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate O [m3/h]	0	1.2	2.4	3.6	4.8	6	7.2	8.4
DPT 70/50B M/T	Delivery head H [m]	55	48	35	17				
DPT 70/75B M/T		78	71	51	25				
DPT 140/45B M/T		50	47	42	37	32	26	19	11
DPT 140/65B M/T		68	63	55	49	42	33	23	13

DPT
PUMPS FOR OPEN AND DRILLED WELLS

MECHANICAL DATA

Bearing	Self-lubricating ball bearings.	Diffuser	Stainless steel X5CrNi18-10 (AISI 304)
Oil chamber	Yes		
Shaft	Stainless steel X5 CrNi 1810 (AISI 304)	Mechanical seal	Graphite. Lubricated in oil chamber
Impeller	Stainless steel X5CrNi18-10 (AISI 304)	Contourface	Aluminium oxide. Lubricated in oil chamber
Motor housing	Stainless steel	Type of liquid	clean water without suspend-ed solids or abrasive material
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Temperature of the liquid max.	40 °C
Submersible	Yes	Suction height max.	17 m

ELECTRICAL DATA

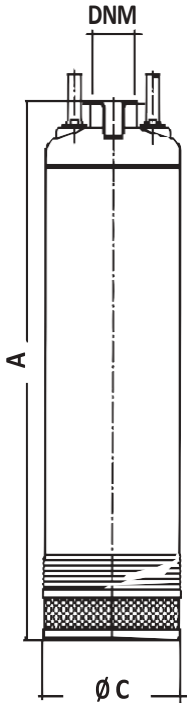
Power line	20m S07RN-F	Insulation class	F
Type of enclosure	IP 68	Rotation speed	2850 rpm

DPT

Type	Voltage	Motor rating		Current	Plug	Weight
		P1	P2			
DPT 70/50B M	1/N/PE-230 V	0.9 kW	0.6 kW	4.0 A	Safety	13.7 kg
DPT 70/50B M AUT	1/N/PE-230 V	0.9 kW	0.6 kW	4.0 A	Safety	13.7 kg
DPT 70/50B T	3/N/PE-400 V	0.9 kW	0.6 kW	1.8 A	Without	13.7 kg
DPT 70/50B T	3/N/PE-230 V	0.9 kW	0.6 kW	3.0 A	Without	13.7 kg
DPT 70/75B M	1/N/PE-230 V	1.3 kW	0.9 kW	6.0 A	Safety	15.5 kg
DPT 70/75B M AUT	1/N/PE-230 V	1.3 kW	0.9 kW	6.0 A	Safety	15.5 kg
DPT 70/75B T	3/N/PE-230 V	1.3 kW	0.9 kW	3.7 A	Without	15.5 kg
DPT 70/75B T	3/N/PE-400 V	1.3 kW	0.9 kW	2.1 A	Without	15.5 kg
DPT 140/45B M	1/N/PE-230 V	1.2 kW	0.8 kW	5.5 A	Safety	14.2 kg
DPT 140/45B M AUT	1/N/PE-230 V	1.2 kW	0.8 kW	5.5 A	Safety	14.2 kg
DPT 140/45B T	3/N/PE-230 V	1.2 kW	0.8 kW	3.8 A	Without	14.2 kg
DPT 140/45B T	3/N/PE-400 V	1.2 kW	0.8 kW	2.2 A	Without	14.2 kg
DPT 140/65B M	1/N/PE-230 V	1.6 kW	1.1 kW	7.2 A	Safety	15.8 kg
DPT 140/65B M AUT	1/N/PE-230 V	1.6 kW	1.1 kW	7.2 A	Safety	15.8 kg
DPT 140/65B T	3/N/PE-400 V	1.6 kW	1.1 kW	2.5 A	Without	15.8 kg
DPT 140/65B T	3/N/PE-230 V	1.6 kW	1.1 kW	4.4 A	Without	15.8 kg

DPT

PUMPS FOR OPEN AND DRILLED WELLS



DIMENSIONS [mm]

Type	A	C	DNM
DPT 70/50B M/T	475	132	1 1/4"
DPT 70/75B M/T	530	132	1 1/4"
DPT 140/45B M/T	495	132	1 1/4"
DPT 140/65B M/T	550	132	1 1/4"

WP

PUMPS FOR OPEN AND DRILLED WELLS

- Maximum rigidity and resistance to water hammer
- Strong resistance to the abrasive action of sand
- Excellent hydraulic efficiency

DESCRIPTION

WP submersible pumps consist of a multi-stage pumping unit directly coupled to a submersed motor. Particularly suitable for lifting from deep wells with ø 4" (100 mm).

APPLICATIONS

- Lifting of water from boreholes.
- Pressurization systems and irrigation
- Irrigation for agricultural use.
- Aqueducts for drinking water.
- Lifting and supply of tanks and pressurization autoclaves, for civil and industrial systems.

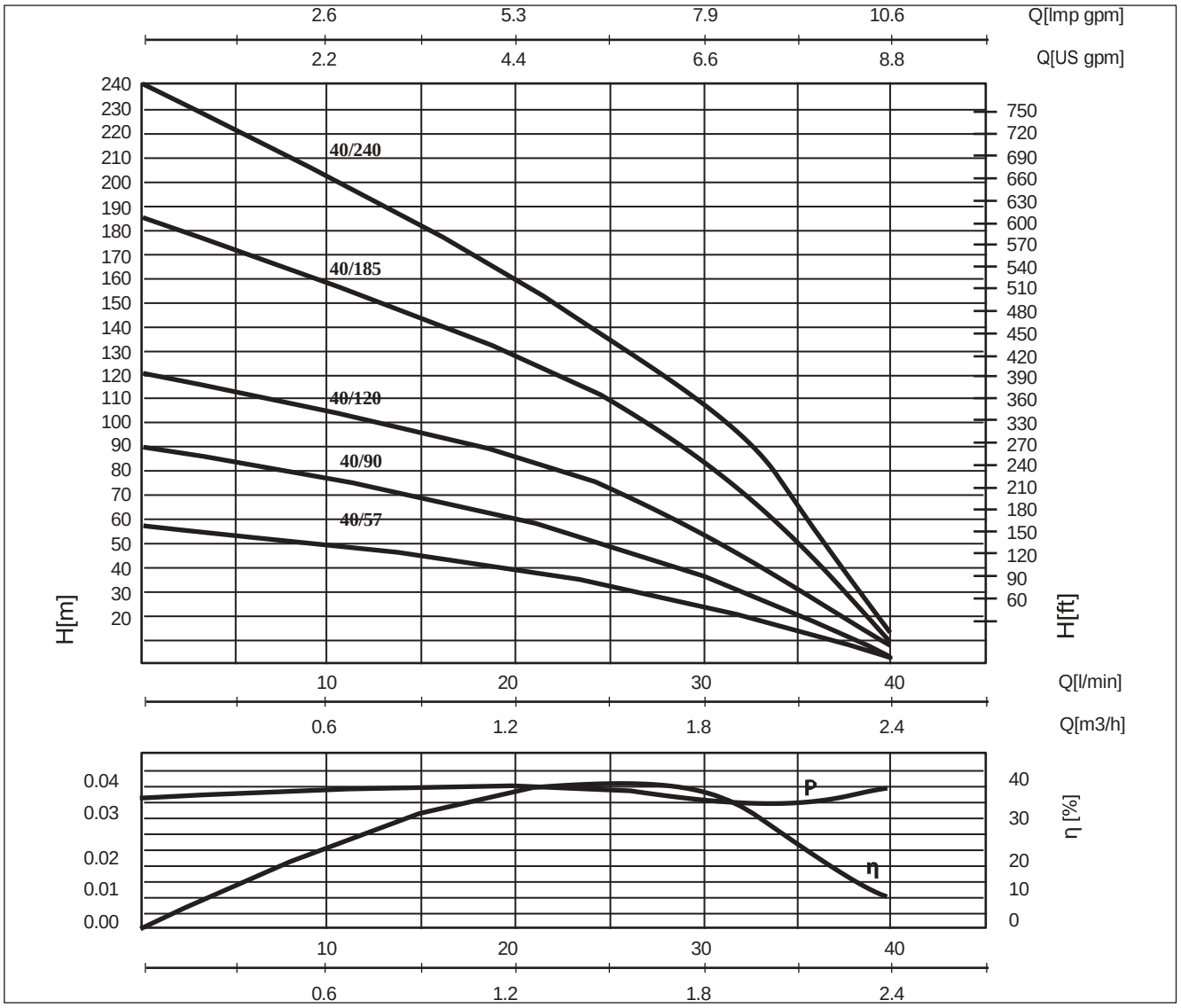
MECHANICAL DATA

Shaft	Hexagonal in stainless steel X10 CrNiS1809 (AISI 303) with ceramic insert at point of wear	Diffuser	Polycarbonate with ceramic insert at point of wear
Impeller	Acetal resin	Type of liquid	Clean, non-aggressive, non-explosive, free of solid particles.
Pump housing	Stainless steel X5 CrNi 1810 (AISI 304)	Temperature of the liquid max.	35 °C
Submersible	Yes		

ELECTRICAL DATA

Type of enclosure	IP 68	Rotation speed	2850 rpm
Insulation class	B		

PERFORMANCE



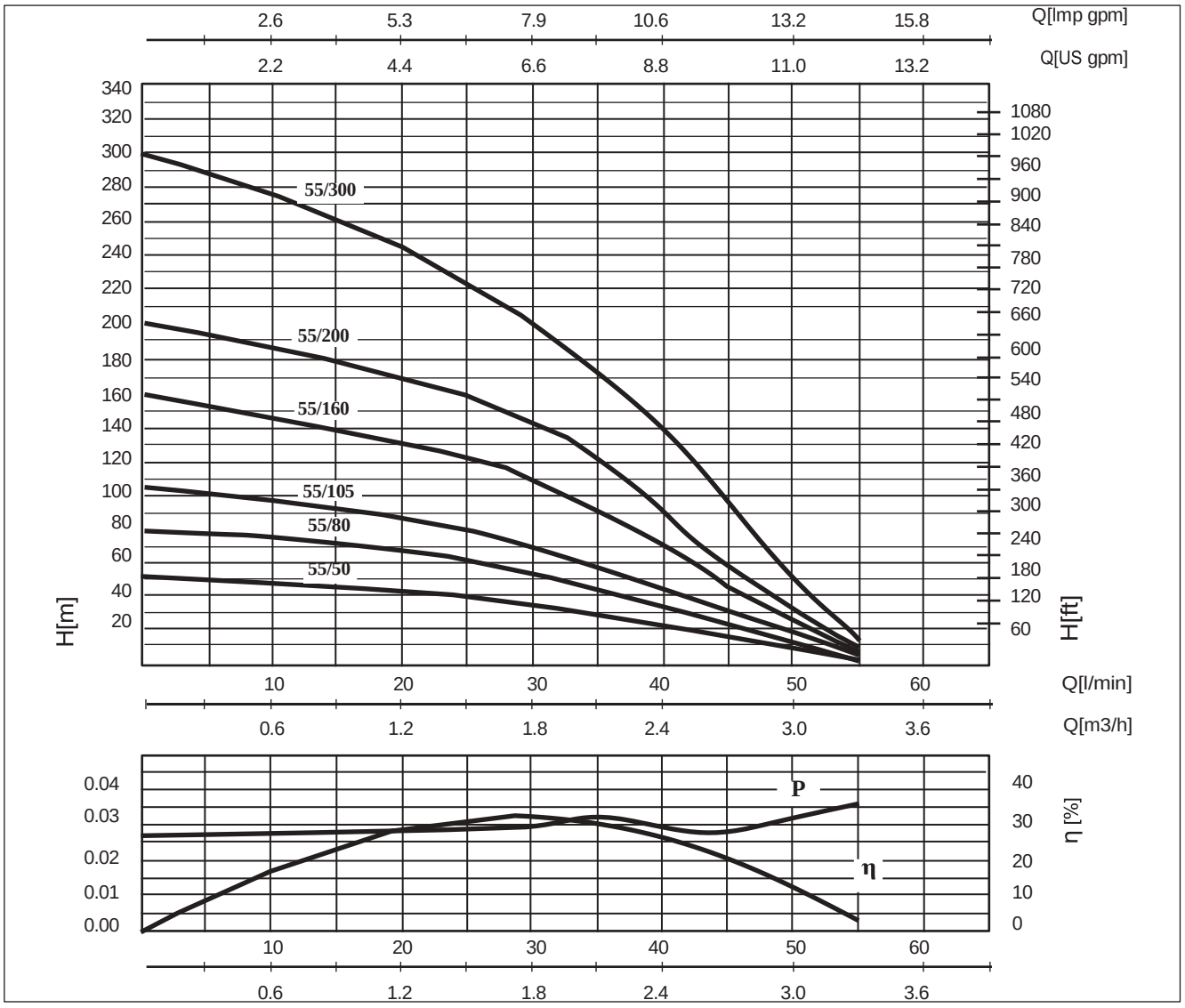
The power curve refers to the shaft power per stage. Ğ indicates the hydraulic yield of the pump MEI Ú 0.4 - Reference MEI Ú 0.70

Type	Flow rate Q [m³/h]	0.6	1.2	1.8	2.4
WP 40/57-M+40/57-T	Delivery head H [m]	49	41	26	3
WP 40/90-M+40/90-T		76	64	40	4
WP 40/120-M+40/120-T		104	86	55	7
WP 40/185-M+40/185-T		158	130	85	10
WP 40/240-M+40/240-T		205	160	110	12

WP 40

Type	Voltage	Motor rating P2	Current	N. stages	Weight
WP 40/57-M	1/N/PE~230 V	0.37 kW	3.4 A	9	11.8 kg
WP 40/57-T	3/N/PE~400 V	0.37 kW	1.2 A	9	10.8 kg
WP 40/90-M	1/N/PE~230 V	0.55 kW	4.4 A	14	14.0 kg
WP 40/90-T	3/N/PE~400 V	0.55 kW	1.7 A	14	12.7 kg
WP 40/120-M	1/N/PE~230 V	0.75 kW	5.9 A	19	16.1 kg
WP 40/120-T	3/N/PE~400 V	0.75 kW	2.2 A	19	14.9 kg
WP 40/185-M	1/N/PE~230 V	1.10 kW	7.8 A	29	19.2 kg
WP 40/185-T	3/N/PE~400 V	1.10 kW	3.0 A	29	17.9 kg
WP 40/240-M	1/N/PE~230 V	1.50 kW	10.2 A	30	22.2 kg
WP 40/240-T	3/N/PE~400 V	1.50 kW	4.0 A	30	20.8 kg

PERFORMANCE



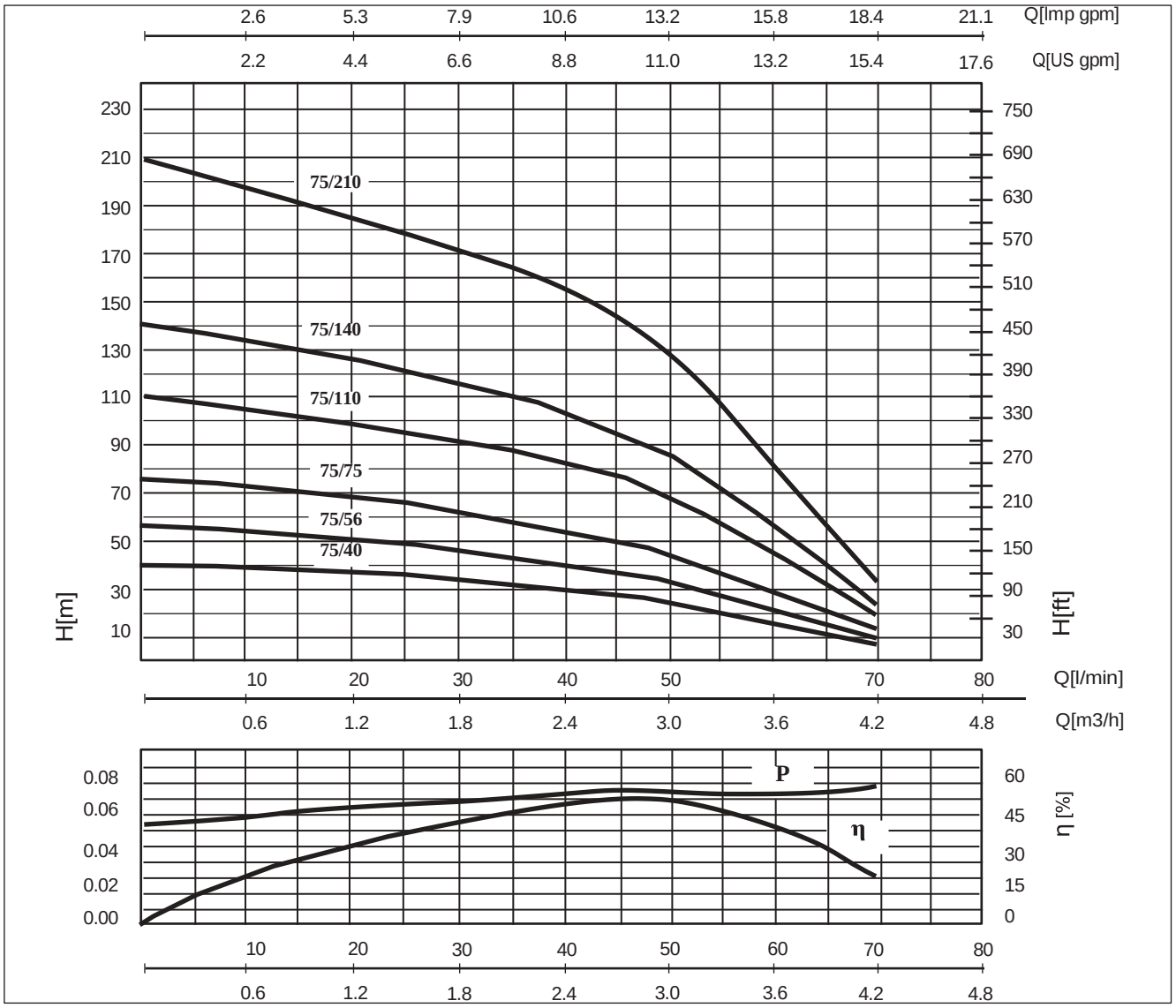
The power curve refers to the shaft power per stage. Ğ indicates the hydraulic yield of the pump MEI Ú 0.4 - Reference MEI Ú 0.70

Type	Flow rate Q [m³/h]	0.6	1.2	1.8	2.4	3
WP 55/50-M+55/50-T	Delivery head H [m]	47	42	36	23	8
WP 55/80-M+55/80-T		75	66	55	35	12
WP 55/105-M+55/105-T		98	87	72	46	12
WP 55/160-M+55/160-T		145	132	110	70	24
WP 55/200-M+55/200-T		187	169	145	90	30
WP 55/300-T		278	244	200	140	50

WP 55

Type	Voltage	Motor rating P2	Current	N. stages	Weight
WP 55/50-M	1/N/PE~230 V	0.37 kW	3.4 A	6	11.3 kg
WP 55/50-T	3/N/PE~400 V	0.37 kW	1.2 A	6	10.3 kg
WP 55/80-M	1/N/PE~230 V	0.55 kW	4.4 A	10	13.1 kg
WP 55/80-T	3/N/PE~400 V	0.55 kW	1.7 A	10	11.8 kg
WP 55/105-M	1/N/PE~230 V	0.75 kW	5.9 A	12	14.9 kg
WP 55/105-T	3/N/PE~400 V	0.75 kW	2.2 A	12	13.7 kg
WP 55/160-M	1/N/PE~230 V	1.10 kW	7.8 A	18	17.3 kg
WP 55/160-T	3/N/PE~400 V	1.10 kW	3.0 A	18	16.0 kg
WP 55/200-M	1/N/PE~230 V	1.50 kW	10.2 A	24	19.8 kg
WP 55/200-T	3/N/PE~400 V	1.50 kW	4.0 A	24	18.4 kg
WP 55/300-T	3/N/PE~400 V	2.20 kW	5.6 A	37	22.3 kg

PERFORMANCE



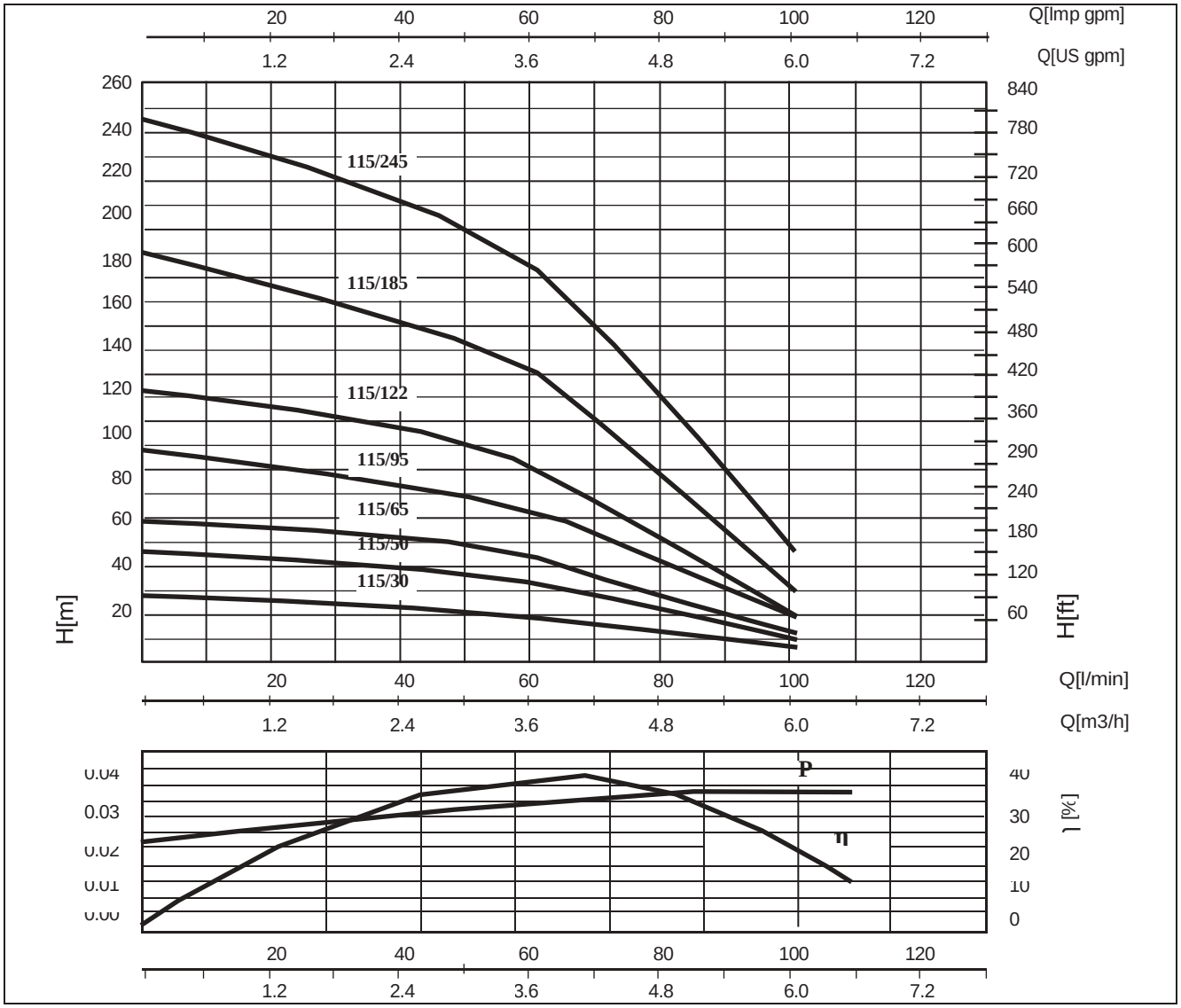
The power curve refers to the shaft power per stage. Ğ indicates the hydraulic yield of the pump MEI Ů 0.4 - Reference MEI Ů 0.70

Type	Flow rate Q [m³/h]	1.2	1.8	2.4	3	3.6
WP 75/40-M+75/40-T	Delivery head H [m]	36	33	28	23	15
WP 75/56-M+75/56-T		50	45	40	32	21
WP 75/75-M+75/75-T		67	62	55	45	30
WP 75/110-M+75/110-T		100	92	82	68	44
WP 75/140-M+75/140-T		127	116	105	86	57
WP 75/210-T		186	170	155	130	80

WP 75

Type	Voltage	Motor rating P2	Current	N. stages	Weight
WP 75/40-M	1/N/PE~230 V	0.37 kW	3.4 A	6	11.2 kg
WP 75/40-T	3/N/PE~400 V	0.37 kW	1.2 A	6	10.2 kg
WP 75/56-M	1/N/PE~230 V	0.55 kW	4.4 A	8	12.9 kg
WP 75/56-T	3/N/PE~400 V	0.55 kW	1.7 A	8	11.6 kg
WP 75/75-M	1/N/PE~230 V	0.75 kW	5.9 A	11	14.8 kg
WP 75/75-T	3/N/PE~400 V	0.75 kW	2.2 A	11	13.6 kg
WP 75/75-T	3/N/PE~230 V	0.75 kW	3.8 A	11	13.6 kg
WP 75/110-M	1/N/PE~230 V	1.10 kW	7.8 A	16	17.1 kg
WP 75/110-T	3/N/PE~400 V	1.10 kW	3.0 A	16	15.8 kg
WP 75/140-M	1/N/PE~230 V	1.50 kW	10.2 A	20	19.4 kg
WP 75/140-T	3/N/PE~400 V	1.50 kW	4.0 A	20	18.0 kg
WP 75/210-T	3/N/PE~400 V	2.20 kW	5.6 A	30	21.5 kg

PERFORMANCE



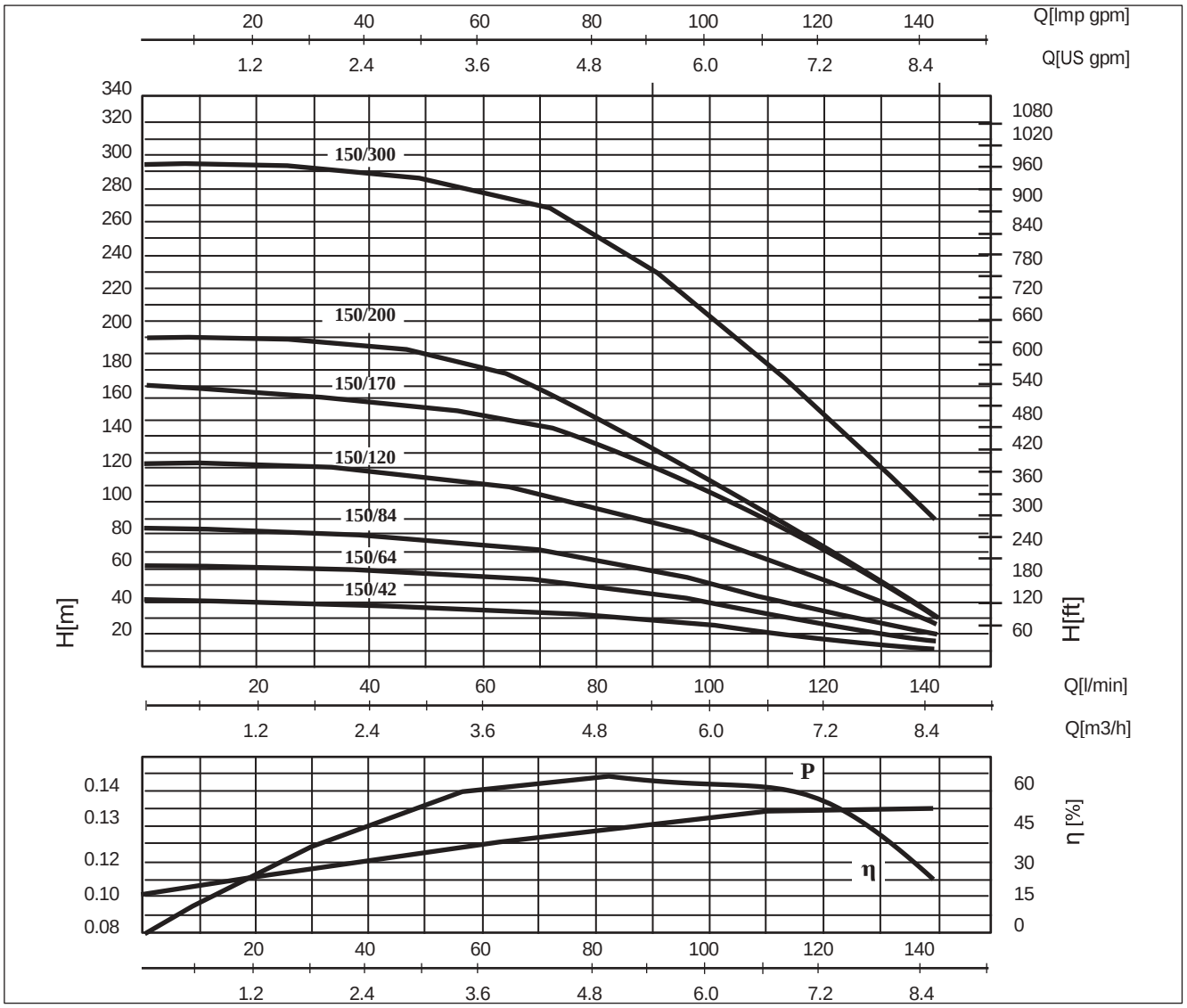
The power curve refers to the shaft power per stage. Ğ indicates the hydraulic yield of the pump MEI Ú 0.4 - Reference MEI Ú 0.70

Type	Flow rate Q [m³/h]	1.8	2.4	3	3.6	4.8	5.4	6
WP 115/30-M+115/30-T	Delivery head H [m]	26.0	24.0	22.0	20.0	13.0	9.0	6.4
WP 115/50-M+115/50-T		46.0	43.0	40.0	36.0	23.0	16.0	10.0
WP 115/65-M+115/65-T		58.0	55.0	51.0	46.0	29.0	20.0	11.0
WP 115/95-M+115/95-T		83.0	80.0	74.0	67.0	43.0	30.0	18.0
WP 115/122-M+115/122-T		109.0	106.0	98.0	88.0	55.0	38.0	21.0
WP 115/185-T		160.0	153.0	143.0	130.0	85.0	58.0	31.0
WP 115/245-T		218.0	210.0	198.0	179.0	118.0	84.0	47.0

WP 115

Type	Voltage	Motor rating P2	Current	N. stages	Weight
WP 115/30-M	1/N/PE~230 V	0.37 kW	3.4 A	4	11.0 kg
WP 115/30-T	3/N/PE~400 V	0.37 kW	1.2 A	4	10.0 kg
WP 115/50-M	1/N/PE~230 V	0.55 kW	4.4 A	7	12.8 kg
WP 115/50-T	3/N/PE~400 V	0.55 kW	1.7 A	7	11.5 kg
WP 115/65-M	1/N/PE~230 V	0.75 kW	5.9 A	9	14.4 kg
WP 115/65-T	3/N/PE~400 V	0.75 kW	2.2 A	9	13.2 kg
WP 115/65-T	3/N/PE~230 V	0.75 kW	3.8 A	9	13.2 kg
WP 115/95-M	1/N/PE~230 V	1.10 kW	7.8 A	13	16.6 kg
WP 115/95-T	3/N/PE~400 V	1.10 kW	3.0 A	13	15.3 kg
WP 115/95-T	3/N/PE~230 V	1.10 kW	5.2 A	13	15.3 kg
WP 115/122-M	1/N/PE~230 V	1.50 kW	10.2 A	17	18.8 kg
WP 115/122-T	3/N/PE~400 V	1.50 kW	4.0 A	17	17.4 kg
WP 115/185-T	3/N/PE~400 V	2.20 kW	5.6 A	24	20.8 kg
WP 115/245-T	3/N/PE~400 V	3.00 kW	7.5 A	33	25.0 kg

PERFORMANCE

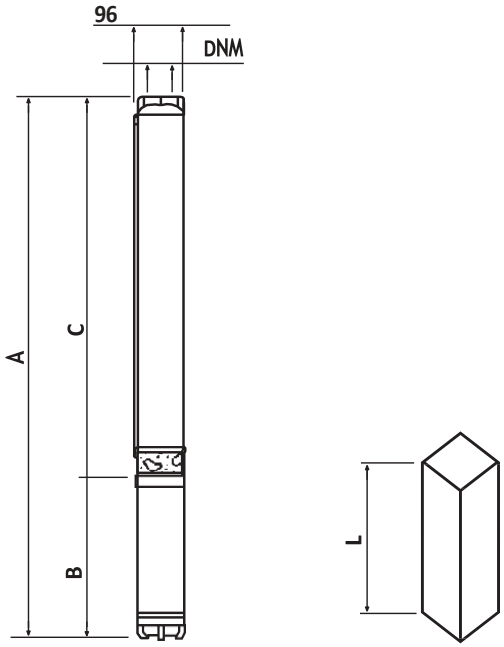


The power curve refers to the shaft power per stage. Ğ indicates the hydraulic yield of the pump MEI Û 0.4 - Reference MEI Û 0.70

Type	Flow rate Q [m³/h]	2.4	3	3.6	4.8	6	7.2	8.4
WP 150/42-M+150/42-T	Delivery head H [m]	38	37	36	33	26	17	10
WP 150/64-M+150/64-T		59	58	57	50	39	27	15
WP 150/84-M+150/84-T		80	78	75	64	50	34	20
WP 150/120-T		116	113	108	96	77	53	26
WP 150/170-T		160	157	152	134	106	69	30
WP 150/200-T		191	188	179	152	112	71	32
WP 150/300-T		292	290	285	252	210	155	82

WP 150

Type	Voltage	Motor rating P2	Current	N. stages	Weight
WP 150/42-M	1/N/PE~230 V	0.75 kW	5.9 A	6	14.0 kg
WP 150/42-T	3/N/PE~400 V	0.75 kW	2.2 A	6	12.8 kg
WP 150/42-T	3/N/PE~230 V	0.75 kW	3.8 A	6	12.8 kg
WP 150/64-M	1/N/PE~230 V	1.10 kW	7.8 A	9	16.1 kg
WP 150/64-T	3/N/PE~400 V	1.10 kW	3.0 A	9	14.8 kg
WP 150/64-T	3/N/PE~230 V	1.10 kW	5.2 A	9	14.8 kg
WP 150/84-M	1/N/PE~230 V	1.50 kW	10.2 A	12	18.3 kg
WP 150/84-T	3/N/PE~400 V	1.50 kW	4.0 A	12	16.9 kg
WP 150/120-T	3/N/PE~400 V	2.20 kW	5.6 A	17	20.1 kg
WP 150/170-T	3/N/PE~400 V	3.00 kW	7.5 A	24	24.2 kg
WP 150/200-T	3/N/PE~400 V	4.00 kW	10.1 A	29	33.1 kg
WP 150/300-T	3/N/PE~400 V	5.50 kW	13.6 A	42	42.3 kg


96
DNM
A
C
B
L

DIMENSIONS [mm]

Type	A	B	C	L	DNM
WP 40/57-M	584	250	334	610	1 1/4"
WP 40/57-T	569	235	334	610	1 1/4"
WP 40/90-M	711	265	446	800	1 1/4"
WP 40/90-T	696	250	446	800	1 1/4"
WP 40/120-M	853	295	558	960	1 1/4"
WP 40/120-T	823	265	558	960	1 1/4"
WP 40/185-M	1122	340	782	1330	1 1/4"
WP 40/185-T	1077	295	782	1120	1 1/4"
WP 40/240-M	1358	375	983	1580	1 1/4"
WP 40/240-T	1323	340	983	1330	1 1/4"
WP 55/50-M	517	250	267	610	1 1/4"
WP 55/50-T	502	235	267	610	1 1/4"
WP 55/80-M	622	265	357	800	1 1/4"
WP 55/80-T	607	250	357	800	1 1/4"
WP 55/105-M	696	295	401	800	1 1/4"
WP 55/105-T	666	265	401	800	1 1/4"
WP 55/160-M	875	340	535	960	1 1/4"
WP 55/160-T	830	295	535	960	1 1/4"
WP 55/200-M	1045	375	670	1120	1 1/4"
WP 55/200-T	1010	340	670	1120	1 1/4"
WP 55/300-T	1336	375	961	1580	1 1/4"
WP 75/40-M	553	250	303	610	1 1/4"
WP 75/40-T	538	235	303	610	1 1/4"
WP 75/56-M	625	265	360	800	1 1/4"
WP 75/56-T	610	250	360	800	1 1/4"
WP 75/75-M	740	295	445	800	1 1/4"
WP 75/75-T	710	265	445	800	1 1/4"
WP 75/110-M	928	340	588	960	1 1/4"
WP 75/110-T	883	295	588	960	1 1/4"
WP 75/140-M	1077	375	702	1120	1 1/4"
WP 75/140-T	1042	340	702	1120	1 1/4"
WP 75/210-T	1391	375	1016	1580	1 1/4"
WP 115/30-M	496	250	246	610	1 1/4"
WP 115/30-T	481	235	246	610	1 1/4"
WP 115/50-M	596	265	331	610	1 1/4"
WP 115/50-T	581	250	331	610	1 1/4"
WP 115/65-M	683	295	388	800	1 1/4"
WP 115/65-T	653	265	388	800	1 1/4"
WP 115/95-M	842	340	502	960	1 1/4"
WP 115/95-T	797	295	502	960	1 1/4"
WP 115/122-M	992	375	617	1120	1 1/4"
WP 115/122-T	957	340	617	960	1 1/4"
WP 115/185-T	1221	375	846	1330	1 1/4"
WP 115/245-T	1582	480	1102	1870	1 1/4"
WP 150/42-M	648	295	353	800	2"
WP 150/42-T	618	265	353	800	2"
WP 150/64-M	803	340	463	960	2"
WP 150/64-T	758	295	463	800	2"
WP 150/84-M	948	375	573	960	2"
WP 150/84-T	913	340	573	960	2"
WP 150/120-T	1161	375	786	1330	2"
WP 150/170-T	1523	480	1043	1580	2"
WP 150/200-T	1781	555	1226	1870	2"
WP 150/300-T	2378	675	1703	2590	2"

SECTION 4

BOOSTER SETS

FSBP
BOOSTER SETS - FIX SPEED

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VSBP
BOOSTER SETS - VARIABLE SPEED

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VSBP 1-2
BOOSTER SETS - VARIABLE SPEED

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VSBP 3-2
BOOSTER SETS - VARIABLE SPEED

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VSBP 3-3
BOOSTER SETS - VARIABLE SPEED

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FSBP

BOOSTER SETS - FIX SPEED

- Compact dimensions
- Sturdy and resistant
- High hydraulic efficiency
- Reliable

DESCRIPTION

They are booster set for the automatic pressurization of water distribution systems with single phase or three phase power supply consisting of: 2 pumps, electrical panel, base, intake and delivery manifolds, pressure switches, pressure gauge and check valve in supply.

DESCRIPTION OF OPERATION

The pumps are controlled by two pressure switches with adjustable settings, via an electrical panel with an electronic board for:

- the sequential start-up of the pumps

- the inversion of the start-up order

- the settings for protection against dry running

- timer (adjustable from 0 to 180")

When the mains pressure reaches the value for the closing of the electrical contact of pressure switch n.1, a pump starts. If the pressure continues to drop, once the value of the closing pressure of the second pressure switch has been reached, the other pump starts. When the value of the network pressure increases, the pressure switches open their contact causing the relative pump to stop. At the end of each cycle, the automatic inverter changes the starting order of the pumps (once pressure switch n.1 is associated to pump n.1; in the next cycle to pump n.2).

MECHANICAL DATA

Type of liquid	clean water without suspended solids or abrasive material	Temperature of the liquid max.	40 °C

ELECTRICAL DATA

Frequency	50 Hz		

SINGLE PHASE ELECTRICAL PANEL

Electrical panel

- Box in plastic material IP65
- Fuses
- Multifunctional electronic board with integrated transformer for the auxiliary circuit
- Start-up relay for each pump
- Protection against overload provided by the electronic board
- Trimmer to adjust the delay time from 0 to 180 seconds, after the opening of the contact of the pressure switch (for each pump)

Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch
- Adjustable timer for the pumps

Signals and controls

- Manual - Automatic button
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on and overload

External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

THREE- PHASE ELECTRICAL PANEL

Electrical panel

- Metal box IP54
- Main switch
- Electronic board
- Fuses and contactors for each pump
- Protection against overload provided by the electronic board
- Transformer with fuses for the auxiliary circuit

Main functions

- Cyclic inversion of the start-up order of the pumps after each cycle end
- ON/OFF control of the level of the tank or the pressure of the supply duct by means of a float switch or a different differential pressure switch
- Timer of the last pump settable from 0 to 180 seconds, after the opening of the pressure switch operation contact

Signals and controls

- M-0-T button (Manual - 0 - Automatic)
- ON/OFF buttons for each pump
- LED indicating the presence of power
- LED indicating pump in operation
- LED indicating low level in the collection tank or pressure insufficient in the Suction manifold
- LED indicating overload
- LEDs indicating manual or automatic operation
- BMS with contacts for each pump: pump on, overload and no water alarm
- Communication RS232/RS485

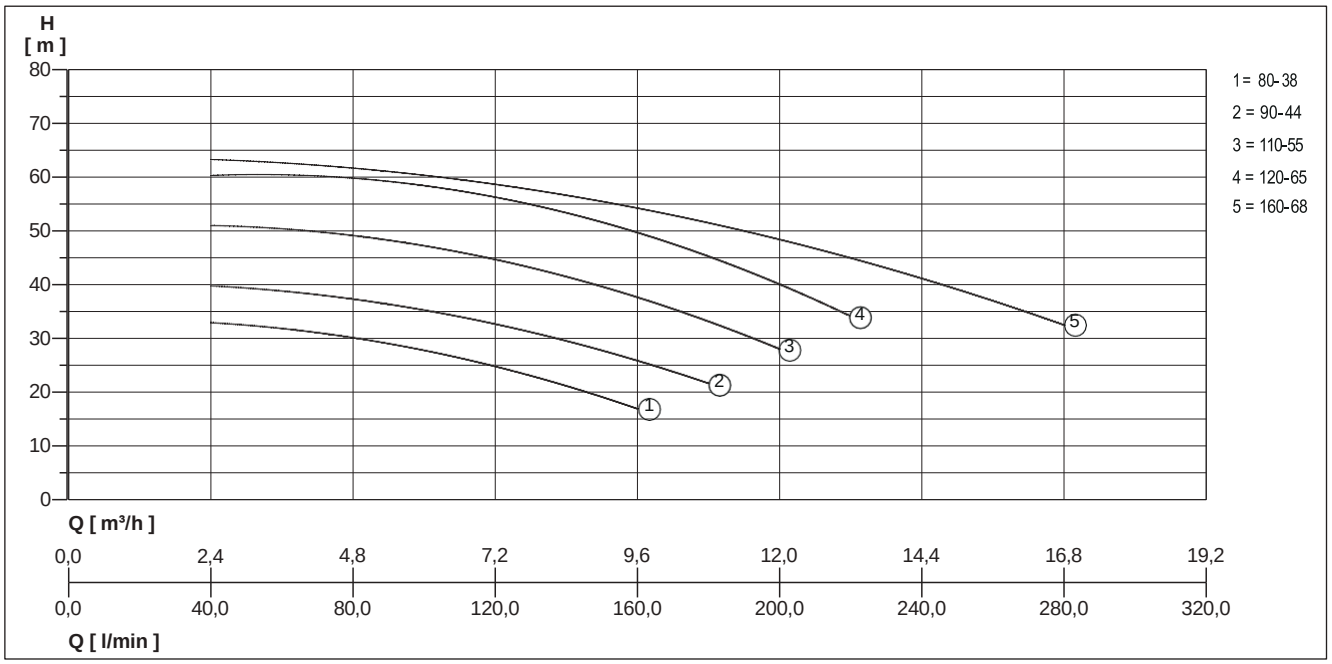
External control devices

- Two adjustable differential pressure switches ON/OFF
- ON/OFF float switch, located in the water collection tank, or
- Reverse pressure switch inserted in the water supply duct (aqueduct)

FSBP - TP

BOOSTER SETS - FIX SPEED

PERFORMANCE



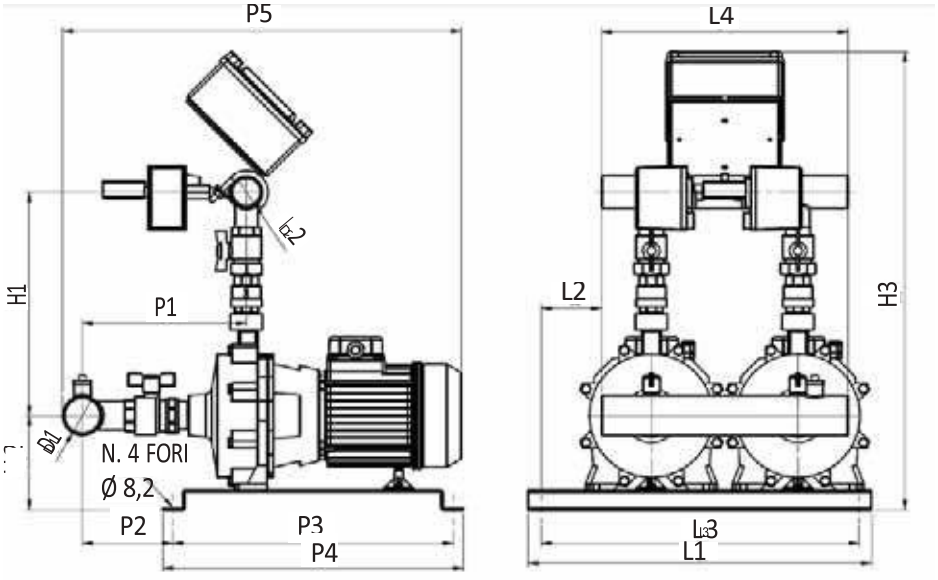
We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	2.4	4.8	6	9.6	10.8	12	13.2	16.8
FSBP/2TP 80/38M+80/38T	Delivery head H [m]	33	30	28	17				
FSBP/2TP 90/44M+90/44T		40	37	35	27	21			
FSBP/2TP 110/55M+110/55T		51	49	47	38	33	28		
FSBP/2TP 120/65M+120/65T		61	59	57	50	47	40	33	
FSBP/2TP 160/68T		61	59	54	52	49	45	32	0

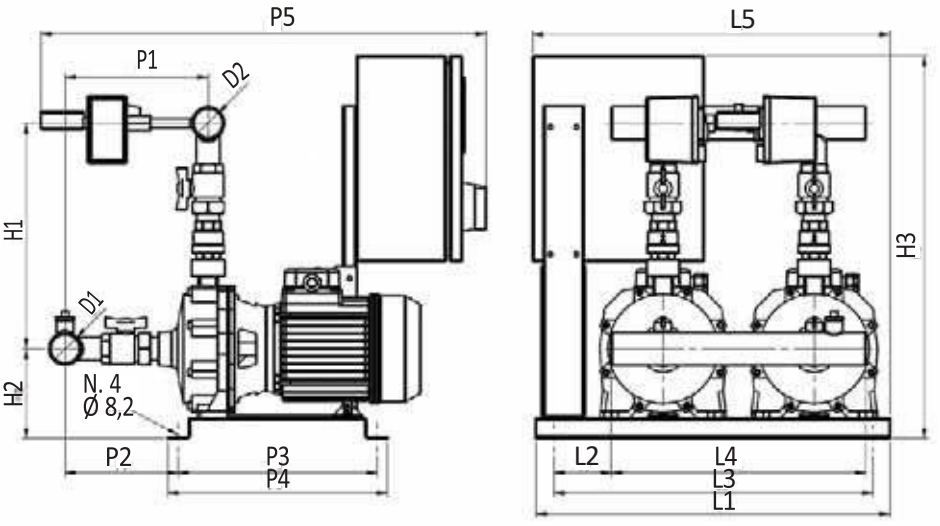
FSBP - 2 TP

Type	Voltage	Motor rating 2xP2	Type of enclosure	Ambient temperature max.	Operating pressure max.	Weight
FSBP/2TP 80/38M	1/N/PE~230 V	0.55 kW	IP 44	40 °C	9 bar	34 kg
FSBP/2TP 80/38T	3/N/PE~400 V	0.55 kW	IP 44	40 °C	9 bar	40 kg
FSBP/2TP 90/44M	1/N/PE~230 V	0.74 kW	IP 44	40 °C	9 bar	42 kg
FSBP/2TP 90/44T	3/N/PE~400 V	0.74 kW	IP 44	40 °C	9 bar	48 kg
FSBP/2TP 110/55M	1/N/PE~230 V	1.10 kW	IP 44	40 °C	9 bar	62 kg
FSBP/2TP 110/55T	3/N/PE~400 V	1.10 kW	IP 44	40 °C	9 bar	68 kg
FSBP/2TP 120/65M	1/N/PE~230 V	1.50 kW	IP 44	40 °C	9 bar	-
FSBP/2TP 120/65T	3/N/PE~400 V	1.50 kW	IP 44	40 °C	9 bar	70 kg
FSBP/2TP 160/68T	3/N/PE~400 V	2.20 kW	IP 44	40 °C	9 bar	69 kg

Single phase



Three phase



FSBP - TP

BOOSTER SETS - FIX SPEED

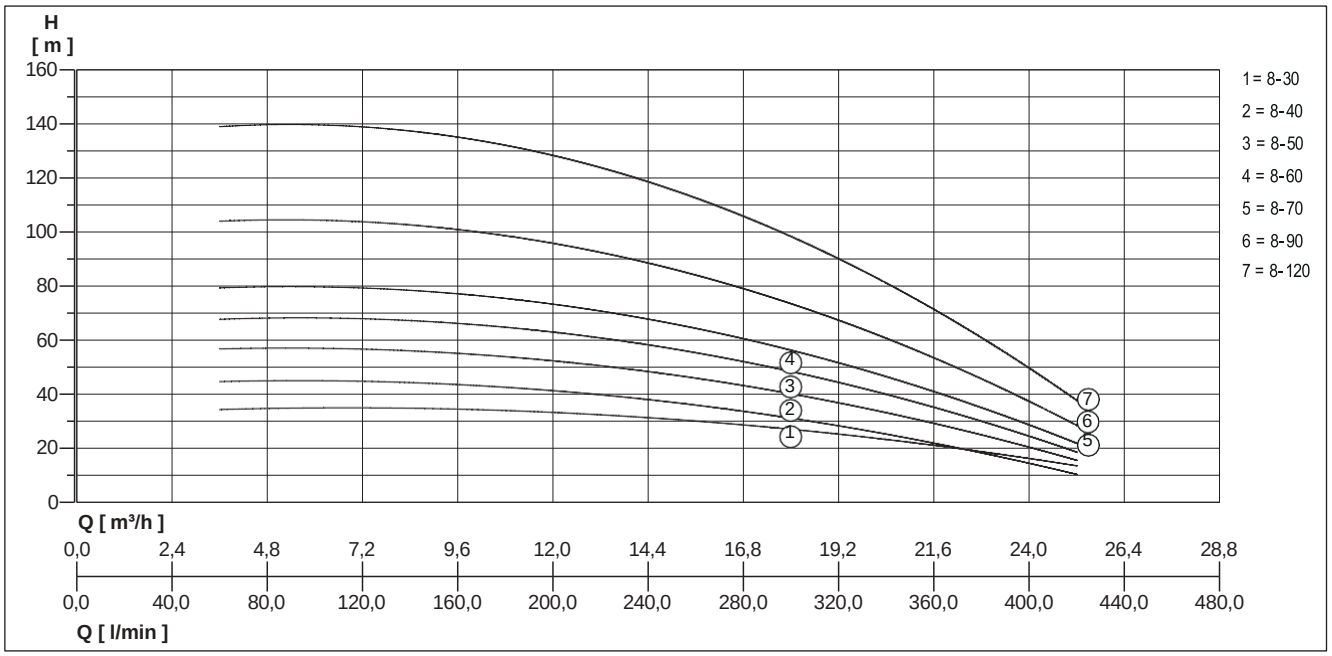
DIMENSIONS [mm]

Type	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2
FSBP/2TP 80/38M	515	95	485	370		209	165	290	320	542	328	130	671	1 1/2″	1 1/2″
FSBP/2TP 80/38T	515	95	485	370	520	209	165	290	320	652	328	130	560	1 1/2″	1 1/2″
FSBP/2TP 90/44M	515	95	485	370		209	165	290	320	542	328	130	671	1 1/2″	1 1/2″
FSBP/2TP 90/44T	515	95	485	370	520	209	165	290	320	652	328	130	560	1 1/2″	1 1/2″
FSBP/2TP 110/55M	515	95	485	370		246	135	420	450	600	335	142	690	2″	1 1/2″
FSBP/2TP 110/55T	515	95	485	370	520	246	135	420	450	758	335	142	560	2″	1 1/2″
FSBP/2TP 120/65M	515	95	485	370		246	135	420	450	600	335	142	690	2″	1 1/2″
FSBP/2TP 120/65T	515	95	485	370	520	246	135	420	450	758	335	142	560	2″	1 1/2″
FSBP/2TP 160/68T	515	95	485	370	520	246	135	420	450	758	335	142	560	2″	1 1/2″

FSBP - MPINOX

BOOSTER SETS - FIX SPEED

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	0	3.6	7.2	10.8	14.4	18	21.6	25.2
FSBP/2MPINOX 8-30 M/T	Delivery head H [m]	36	35	35	33	30	25	28	10
FSBP/2MPINOX 8-40 M/T		46	45	44	42	39	32	20	11
FSBP/2MPINOX 8-50 M/T		57	57	56	53	50	40	28	16
FSBP/2MPINOX 8-60 T		69	68	67	64	60	48	34	19
FSBP/2MPINOX 8-70 T		80	80	78	74	70	56	40	22
FSBP/2MPINOX 8-90 T		105	104	103	98	90	73	52	29
FSBP/2MPINOX 8-120 T		140	139	138	131	120	98	70	38

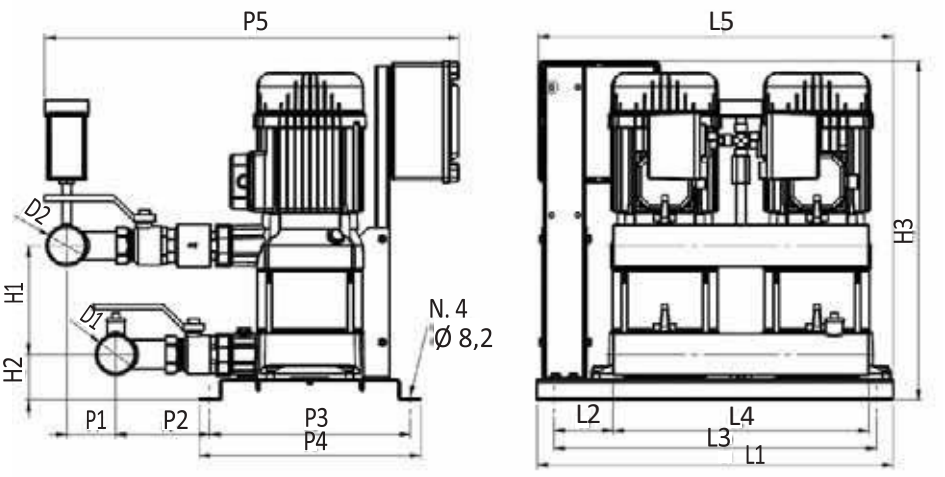
FSBP - 2 MPINOX

Type	Voltage	Motor rating 2xP2	Type of enclosure	Ambient temperature max.	Operating pressure max.	Weight
FSBP/2MPINOX 8-30 M	1/N/PE~230 V	1.0 kW	IP 44	50 °C	14 bar	69 kg
FSBP/2MPINOX 8-30 T	3/N/PE~400 V	1.0 kW	IP 44	50 °C	14 bar	75 kg
FSBP/2MPINOX 8-40 M	1/N/PE~230 V	1.2 kW	IP 44	50 °C	14 bar	73 kg
FSBP/2MPINOX 8-40 T	3/N/PE~400 V	1.2 kW	IP 44	50 °C	14 bar	79 kg
FSBP/2MPINOX 8-50 M	1/N/PE~230 V	1.5 kW	IP 44	50 °C	14 bar	77 kg
FSBP/2MPINOX 8-50 T	3/N/PE~400 V	1.5 kW	IP 44	50 °C	14 bar	83 kg
FSBP/2MPINOX 8-60 T	3/N/PE~400 V	1.7 kW	IP 44	50 °C	14 bar	87 kg
FSBP/2MPINOX 8-70 T	3/N/PE~400 V	1.9 kW	IP 44	50 °C	14 bar	91 kg
FSBP/2MPINOX 8-90 T	3/N/PE~400 V	3.0 kW	IP 44	50 °C	14 bar	109 kg
FSBP/2MPINOX 8-120 T	3/N/PE~400 V	4.0 kW	IP 44	50 °C	14 bar	115 kg

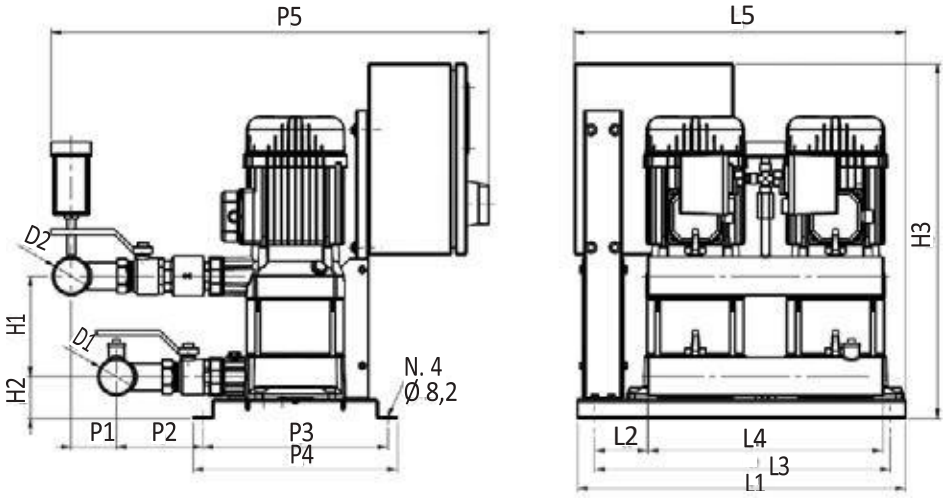
FSBP - MPINOX

BOOSTER SETS - FIX SPEED

Single phase



Three phase



FSBP - MPINOX

BOOSTER SETS - FIX SPEED

DIMENSIONS [mm]

Type	L1	L2	L3	L4	L5	P1	P2	P3	P4	P5	H1	H2	H3	D1	D2
FSBP/2MPINOX 8-30 M	515	95	485	370	520	71	138	290	320	675	130	64	510	2″	2″
FSBP/2MPINOX 8-30 T	515	95	485	370	520	71	138	290	320	690	130	64	560	2″	2″
FSBP/2MPINOX 8-40 M	515	95	485	370	520	71	138	290	320	675	157	64	510	2″	2″
FSBP/2MPINOX 8-40 T	515	95	485	370	520	71	138	290	320	690	157	64	560	2″	2″
FSBP/2MPINOX 8-50 M	515	95	485	370	520	71	138	290	320	675	184	64	510	2″	2″
FSBP/2MPINOX 8-50 T	515	95	485	370	520	71	138	290	320	690	184	64	560	2″	2″
FSBP/2MPINOX 8-60 T	515	95	485	370	520	71	138	290	320	690	211	64	560	2″	2″
FSBP/2MPINOX 8-70 T	515	95	485	370	520	71	138	290	320	690	238	64	560	2″	2″
FSBP/2MPINOX 8-90 T	515	95	485	370	520	71	138	290	320	690	292	64	750	2″	2″
FSBP/2MPINOX 8-120 T	515	95	485	370	520	71	138	290	320	690	292	64	750	2″	2″

VSBP

BOOSTER SETS – VARIABLE SPEED

- Reliable
- Easy to install
- Pressure remains constant during supply
- Low energy consumption

DESCRIPTION

The new series of variable speed pressurization booster set VSBP represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation in parallel of two inverters integrated directly on the motor of each pump installed. The two frequency converters communicate and alternate the starting order of each work cycle, always keeping the pressure constant in the distribution system.

APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Irrigation
- Industry
- Washes

MECHANICAL DATA

Type of liquid	clean water without suspended solids or abrasive material		

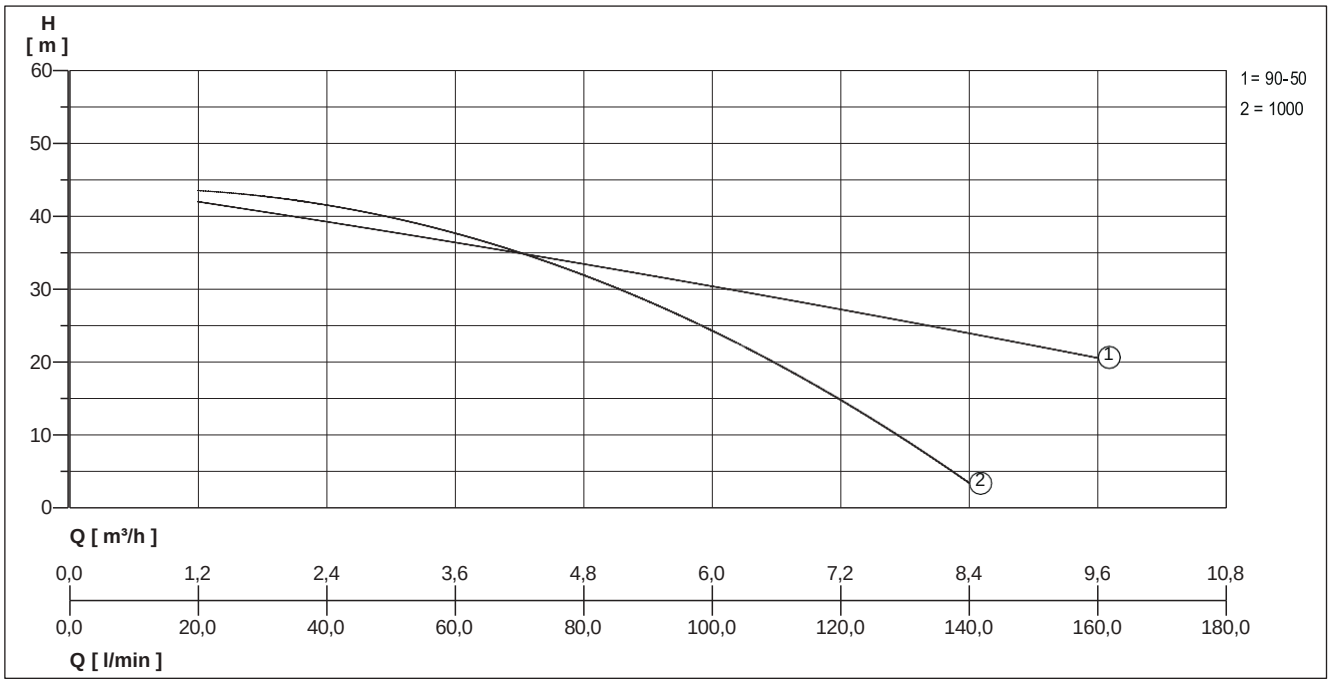
ELECTRICAL DATA

Voltage	1/N/PE~230 V		

VSBP JP - JPINOX

BOOSTER SETS - VARIABLE SPEED

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6
VSBP/2JPINOX 90/50	Delivery head H [m]	42	39	37	33	30	27	25	20
VSBP/2JP 1000		44	41	37	32	25	15	3	

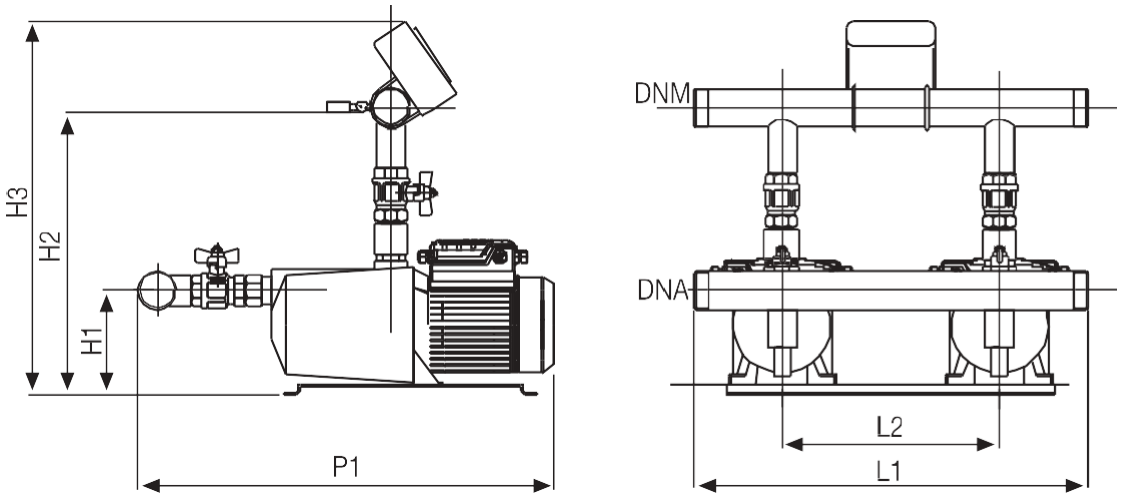
VSBP - 2 JP/JPINOX

Type	Motor rating 2xP1	Current 2xI	Temperature of the liquid max.	Weight
VSBP/2JPINOX 90/50	1.5 kW	9.0 A	50 °C	70 kg
VSBP/2JP 1000	1.1 kW	7.7 A	50 °C	65 kg

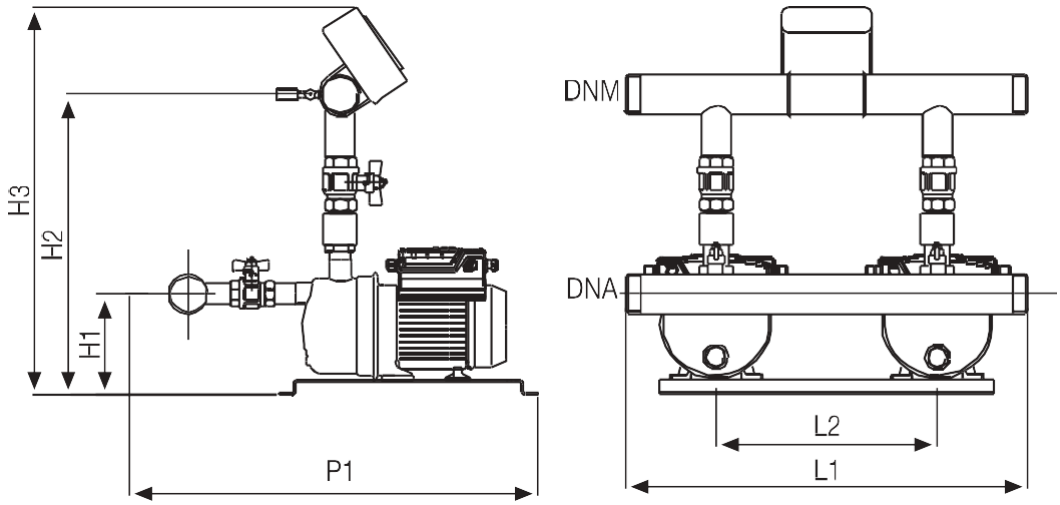
VSBP JP - JPINOX

BOOSTER SETS - VARIABLE SPEED

JP



JPINOX



DIMENSIONS [mm]

Type	L1	L2	P1	H1	H2	H3	DNA	DNM
VSBP/2JPINOX 90/50	540	310	590	188	443	648	2″	1 1/2″
VSBP/2JP 1000	670	370	620	190	420	625	2″	2″

VSBP 1-2

BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Low energy consumption
- Pressure remains constant during supply

DESCRIPTION

The new series of variable speed pressurization booster set VSBP 1-2 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation in parallel of two inverters integrated directly on the motor of each pump installed. The two frequency converters communicate and alternate the starting order of each work cycle, always keeping the pressure constant in the distribution system.

APPLICATIONS

- Lifting and distribution of water in domestic systems in continuous or intermittent operation
- Pressurization systems
- Irrigation
- Industry
- Washes

MECHANICAL DATA

Operating pressure max.	16 bar	Type of liquid	clean water without suspended solids or abrasive material

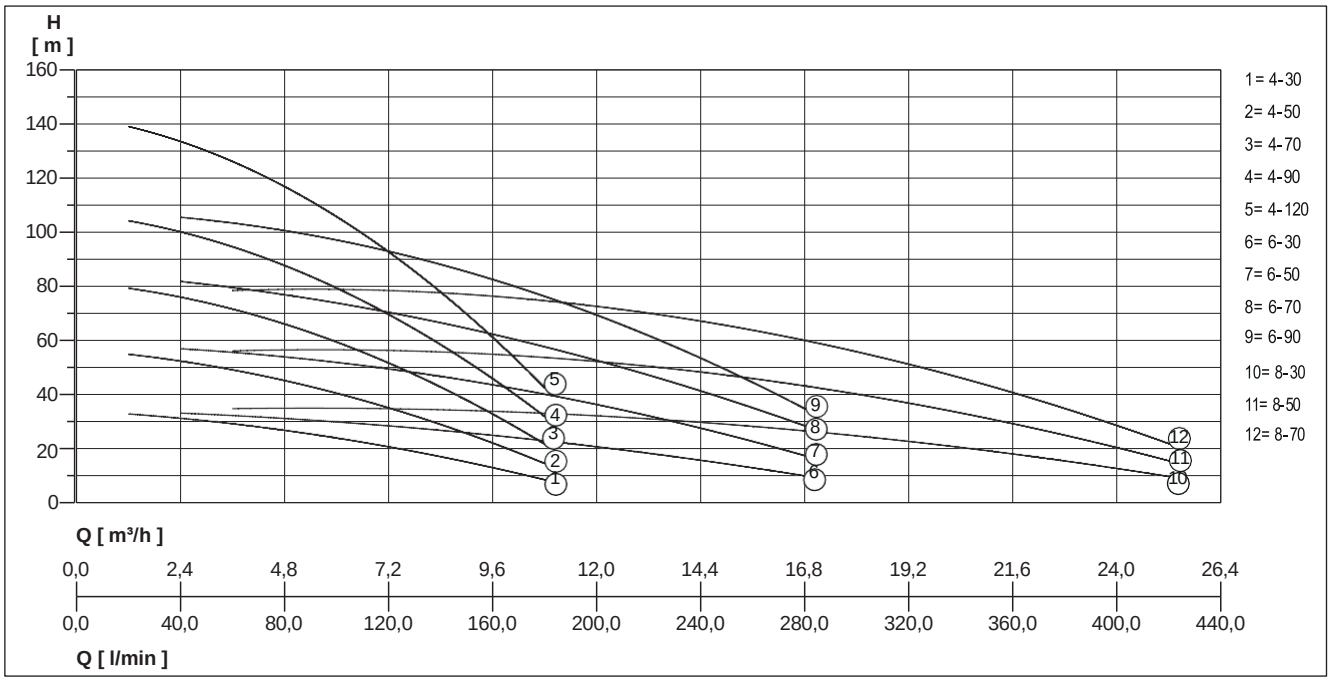
ELECTRICAL DATA

Voltage	1/N/PE~230 V	Ambient temperature max.	50 °C

VSBP 1-2 MPINOX

BOOSTER SETS - VARIABLE SPEED

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

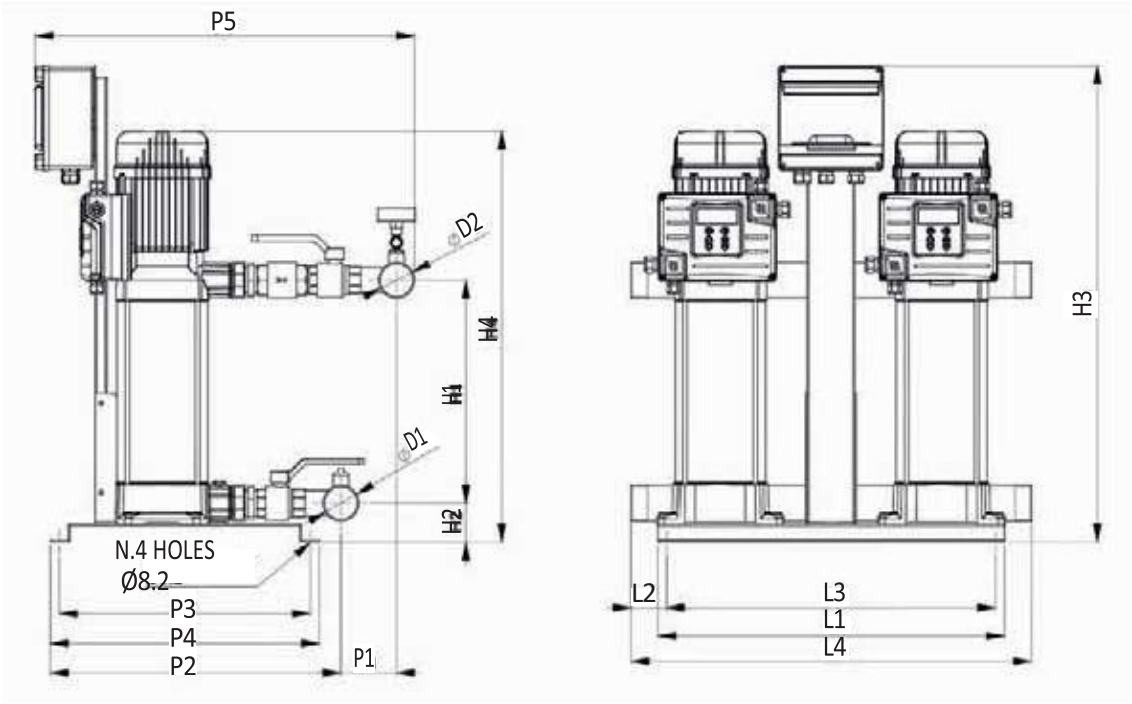
Type	Flow rate Q [m³/h]	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	14.4	16.8	18	21.6	25.2
VSBP1-2MPINOX 4-30	Delivery head H [m]	33	31	30	27	24	21	17	13	9						
VSBP1-2MPINOX 4-50		55	52	50	45	41	35	29	22	15						
VSBP1-2MPINOX 4-70		79	76	72	67	59	51	43	33	22						
VSBP1-2MPINOX 4-90		104	100	95	88	79	69	59	46	32						
VSBP1-2MPINOX 4-120		138	134	127	117	105	92	78	61	43						
VSBP1-2MPINOX 6-30			34	32	31	30	28	27	26	23	21	16	10			
VSBP1-2MPINOX 6-50			58	56	53	51	49	47	44	41	37	28	17			
VSBP1-2MPINOX 6-70			83	80	77	76	61	68	64	59	55	42	27			
VSBP1-2MPINOX 6-90			107	103	99	97	92	88	83	76	71	54	34			
VSBP1-2MPINOX 8-30				35	35	35	35	35	34	33	32	30	27	25	18	10
VSBP1-2MPINOX 8-50				57	57	56	56	56	54	53	52	50	45	40	28	16
VSBP1-2MPINOX 8-70				80	79	78	78	77	75	74	73	70	60	56	40	22

VSBP 1-2 MPINOX

Type	Motor rating 2xP2	Current 2xI	Type of enclosure	Temperature of the liquid max.	Weight
VSBP1-2MPINOX 4-30	0.50 kW	4.40 A	IP 44	50 °C	71 kg
VSBP1-2MPINOX 4-50	0.84 kW	6.71 A	IP 44	50 °C	79 kg
VSBP1-2MPINOX 4-70	1.17 kW	9.39 A	IP 44	50 °C	87 kg
VSBP1-2MPINOX 4-90	1.50 kW	12.08 A	IP 44	50 °C	89 kg
VSBP1-2MPINOX 4-120	2.00 kW	16.30 A	IP 44	50 °C	93 kg
VSBP1-2MPINOX 6-30	0.67 kW	5.95 A	IP 44	50 °C	71 kg
VSBP1-2MPINOX 6-50	1.10 kW	9.02 A	IP 44	50 °C	79 kg
VSBP1-2MPINOX 6-70	1.50 kW	13.82 A	IP 44	50 °C	87 kg
VSBP1-2MPINOX 6-90	2.00 kW	15.75 A	IP 44	50 °C	89 kg
VSBP1-2MPINOX 8-30	1.00 kW	8.70 A	IP 44	50 °C	71 kg
VSBP1-2MPINOX 8-50	1.50 kW	14.40 A	IP 44	50 °C	79 kg
VSBP1-2MPINOX 8-70	1.90 kW	15.50 A	IP 44	50 °C	87 kg

VSBP 1-2 MPINOX

BOOSTER SETS - VARIABLE SPEED



DIMENSIONS [mm]

Type	L1	L2	L3	L4	P1	P2	P3	P4	P5	H1	H2	H3	H4	D1	D2
VSBP1-2MPINOX 4-30	580	70	530	670	90	485	420	450	635	130	65	800	446	2″	2″
VSBP1-2MPINOX 4-50	580	70	530	670	90	485	420	450	635	184	65	800	500	2″	2″
VSBP1-2MPINOX 4-70	580	70	530	670	90	485	420	450	635	238	65	800	554	2″	2″
VSBP1-2MPINOX 4-90	580	70	530	670	90	485	420	450	635	292	65	800	608	2″	2″
VSBP1-2MPINOX 4-120	580	70	530	670	90	485	420	450	635	373	65	800	690	2″	2″
VSBP1-2MPINOX 6-30	580	70	530	670	90	485	420	450	635	130	65	800	446	2″	2″
VSBP1-2MPINOX 6-50	580	70	530	670	90	485	420	450	635	184	65	800	500	2″	2″
VSBP1-2MPINOX 6-70	580	70	530	670	90	485	420	450	635	238	65	800	554	2″	2″
VSBP1-2MPINOX 6-90	580	70	530	670	90	485	420	450	635	292	65	800	608	2″	2″
VSBP1-2MPINOX 8-30	580	70	530	670	90	485	420	450	635	130	65	800	446	2″	2″
VSBP1-2MPINOX 8-50	580	70	530	670	90	485	420	450	635	184	65	800	500	2″	2″
VSBP1-2MPINOX 8-70	580	70	530	670	90	485	420	450	635	238	65	800	554	2″	2″

VSBP 3-2

BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Low power consumption
- Versatile operation

DESCRIPTION

The new series of variable speed pressurization booster set VSBP 3-2 represents a reliable solution which is easy to use, for residential and industrial applications. The systems involves the installation of two pumps in parallel featuring electronic control. VSBP 3-2 is an electronic device capable of changing the frequency of a pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes.

When the system pressure drops below the set threshold, the module starts the first pump of the unit to restore to set-point pressure; the speed of rotation of the pump varies according to the water demand so, a greater demand will correspond to a higher speed, until the maximum speed set has been reached, after which, if the system requires greater performance, the module will activate the second pump to keep the pressure stable. As the water demand decreases, the speed of the last pump started is reduced, until it turns off. The module will keep the first pump on until the minimum set speed has been reached, after which, if there are no further pressure drops, the pump will be stopped. VSBP 3-2 features five operating modes to meet the operating needs.

MECHANICAL DATA

Operating pressure max.	16 bar	Type of liquid	clean water without suspended solids or abrasive material

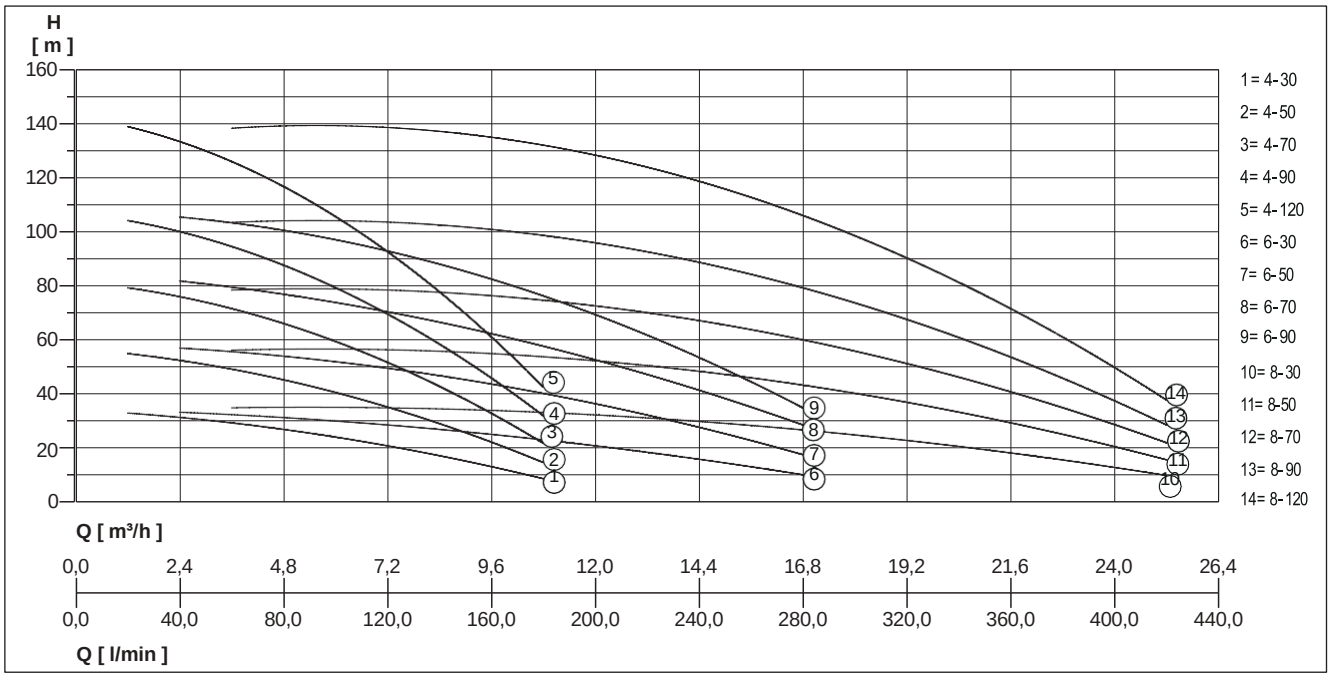
ELECTRICAL DATA

Voltage	3/N/PE~400 V	Ambient temperature max.	50 °C
Type of enclosure	IP 55		

VSBP 3-2 MPINOX

BOOSTER SETS - VARIABLE SPEED

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	1.2	2.4	3.6	4.8	6	7.2	8.4	9.6	10.8	12	14.4	16.8	18	21.6	25.2
VSBP3-2MPINOX 4-30	Delivery head H [m]	33	31	30	27	24	21	17	13	9						
VSBP3-2MPINOX 4-50		55	52	50	45	41	35	29	22	15						
VSBP3-2MPINOX 4-70		79	76	72	67	59	51	43	33	22						
VSBP3-2MPINOX 4-90		104	100	95	88	79	69	59	46	32						
VSBP3-2MPINOX 4-120		138	134	127	117	105	92	78	61	43						
VSBP3-2MPINOX 6-30			34	32	31	30	28	27	26	23	21	16	10			
VSBP3-2MPINOX 6-50			58	56	53	51	49	47	44	41	37	28	17			
VSBP3-2MPINOX 6-70			83	80	77	76	61	68	64	59	55	42	27			
VSBP3-2MPINOX 6-90			107	103	99	97	92	88	83	76	71	54	34			
VSBP3-2MPINOX 8-30				35	35	35	35	35	34	33	32	30	27	25	18	10
VSBP3-2MPINOX 8-50				57	57	56	56	56	54	53	52	50	45	40	28	16
VSBP3-2MPINOX 8-70				80	79	78	78	77	75	74	73	70	60	56	40	22
VSBP3-2MPINOX 8-90				104	104	104	103	103	101	98	94	90	82	73	52	29
VSBP3-2MPINOX 8-120				139	139	139	138	138	135	131	126	120	109	98	70	38

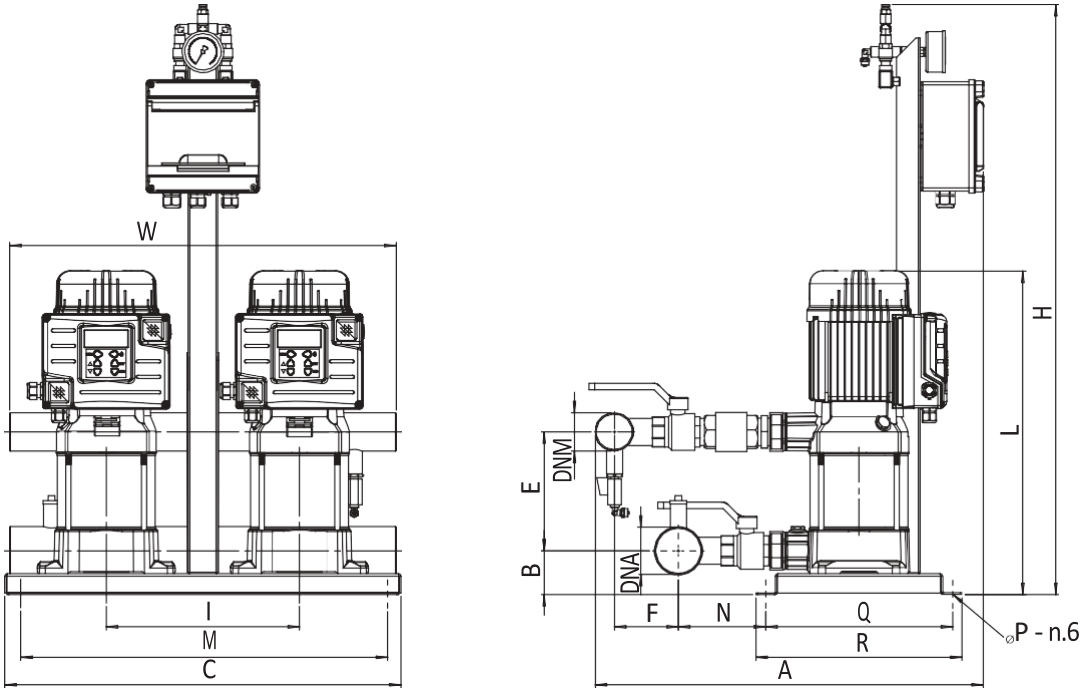
VSBP 3-2 MPINOX

BOOSTER SETS - VARIABLE SPEED

VSBP 3-2 MPINOX

Type	Motor rating 2xP2	Current 2xI	Temperature of the liquid max.	Weight
VSBP3-2MPINOX 4-30	0.50 kW	2.54 A	50 °C	69 kg
VSBP3-2MPINOX 4-50	0.84 kW	3.90 A	50 °C	77 kg
VSBP3-2MPINOX 4-70	1.17 kW	5.46 A	50 °C	85 kg
VSBP3-2MPINOX 4-90	1.50 kW	7.22 A	50 °C	87 kg
VSBP3-2MPINOX 4-120	2.00 kW	9.42 A	50 °C	91 kg
VSBP3-2MPINOX 6-30	0.67 kW	3.58 A	50 °C	69 kg
VSBP3-2MPINOX 6-50	1.10 kW	5.26 A	50 °C	77 kg
VSBP3-2MPINOX 6-70	1.50 kW	8.21 A	50 °C	85 kg
VSBP3-2MPINOX 6-90	2.00 kW	9.13 A	50 °C	87 kg
VSBP3-2MPINOX 8-30	1.00 kW	2.60 A	50 °C	69 kg
VSBP3-2MPINOX 8-50	1.50 kW	4.33 A	50 °C	77 kg
VSBP3-2MPINOX 8-70	1.90 kW	6.13 A	50 °C	85 kg
VSBP3-2MPINOX 8-90	3.00 kW	9.70 A	50 °C	110 kg
VSBP3-2MPINOX 8-120	4.00 kW	12.30 A	50 °C	116 kg

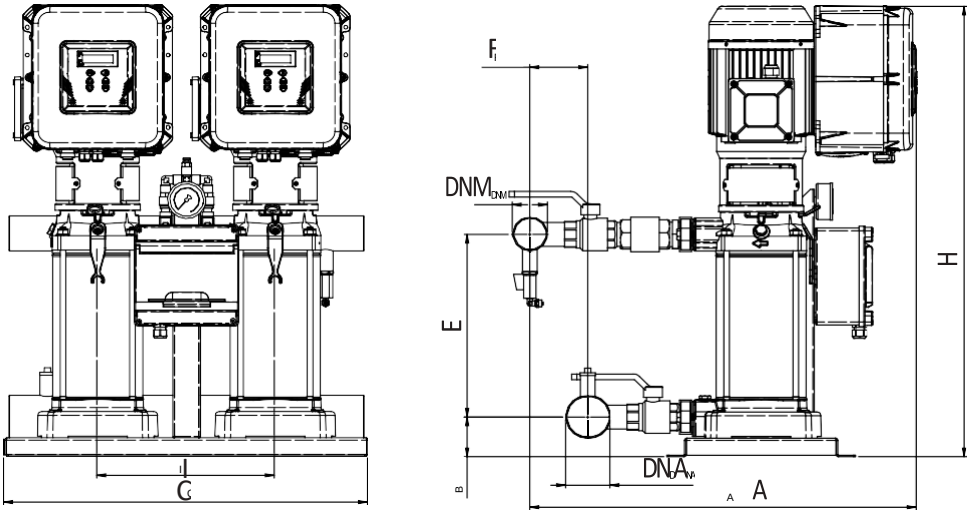
Fig. 1



VSBP 3-2 MPINOX

BOOSTER SETS - VARIABLE SPEED

Fig. 2



DIMENSIONS [mm]

Type	Fig.	A	B	C	F	H	I	L	M	N	P	Q	R	W	DNA	DNM	E
VSBP3-2MPINOX 4-30	1	615	68	608,5	96	910	300	449	578,5	145	10,5	290	320	600	2 1/2"	2"	130
VSBP3-2MPINOX 4-50	1	615	68	608,5	96	910	300	503	578,5	145	10,5	290	320	600	2 1/2"	2"	184
VSBP3-2MPINOX 4-70	1	615	68	608,5	96	910	300	557	578,5	145	10,5	290	320	600	2 1/2"	2"	238
VSBP3-2MPINOX 4-90	1	615	68	608,5	96	910	300	611	578,5	145	10,5	290	320	600	2 1/2"	2"	292
VSBP3-2MPINOX 4-120	1	615	68	608,5	96	910	300	693	578,5	145	10,5	290	320	600	2 1/2"	2"	373
VSBP3-2MPINOX 6-30	1	615	68	608,5	96	910	300	449	578,5	145	10,5	290	320	600	2 1/2"	2"	130
VSBP3-2MPINOX 6-50	1	615	68	608,5	96	910	300	503	578,5	145	10,5	290	320	600	2 1/2"	2"	184
VSBP3-2MPINOX 6-70	1	615	68	608,5	96	910	300	557	578,5	145	10,5	290	320	600	2 1/2"	2"	238
VSBP3-2MPINOX 6-90	1	615	68	608,5	96	910	300	611	578,5	145	10,5	290	320	600	2 1/2"	2"	292
VSBP3-2MPINOX 8-30	1	615	68	608,5	96	910	300	449	578,5	145	10,5	290	320	600	2 1/2"	2"	130
VSBP3-2MPINOX 8-50	1	615	68	608,5	96	910	300	503	578,5	145	10,5	290	320	600	2 1/2"	2"	184
VSBP3-2MPINOX 8-70	1	615	68	608,5	96	910	300	557	578,5	145	10,5	290	320	600	2 1/2"	2"	238
VSBP3-2MPINOX 8-90	2	780	68	608,5	96	765	300	765	578,5	145	10,5	290	320	600	2 1/2"	2"	292
VSBP3-2MPINOX 8-120	2	780	68	608,5	96	890	300	890	578,5	145	10,5	290	320	600	2 1/2"	2"	373

VSBP 3-3

BOOSTER SETS - VARIABLE SPEED

- Easy to install
- Low power consumption
- Versatile operation

DESCRIPTION

The new series of variable speed pressurization booster set VSBP 3-3 represents a reliable solution which is easy to use, for residential and industrial applications. The system involves the installation of three pumps in parallel featuring electronic control. VSBP 3-3 is an electronic device capable of changing the frequency of an pump. Integrated directly on the motor, it allows to adjust its speed so as to supply the same pressure at all times, even when the water demand changes.

When the system pressure drops below the set threshold, the module starts the first pump of the unit to restore to set-point pressure; the speed of rotation of the pump varies according to the water demand so, a greater demand will correspond to a higher speed, until the maximum speed set has been reached, after which, if the system requires greater performance, the module will activate the second and then the third pump to keep the pressure stable. As the water demand decreases, the speed of the last pump started is reduced, until it turns off. The module will keep the first pump on until the minimum set speed has been reached, after which, if there are no further requests for water, the pump will be stopped. VSBP 3-3 features five operating modes to meet the operating needs.

MECHANICAL DATA

Operating pressure max.	16 bar	Type of liquid	clean water without suspended solids or abrasive material

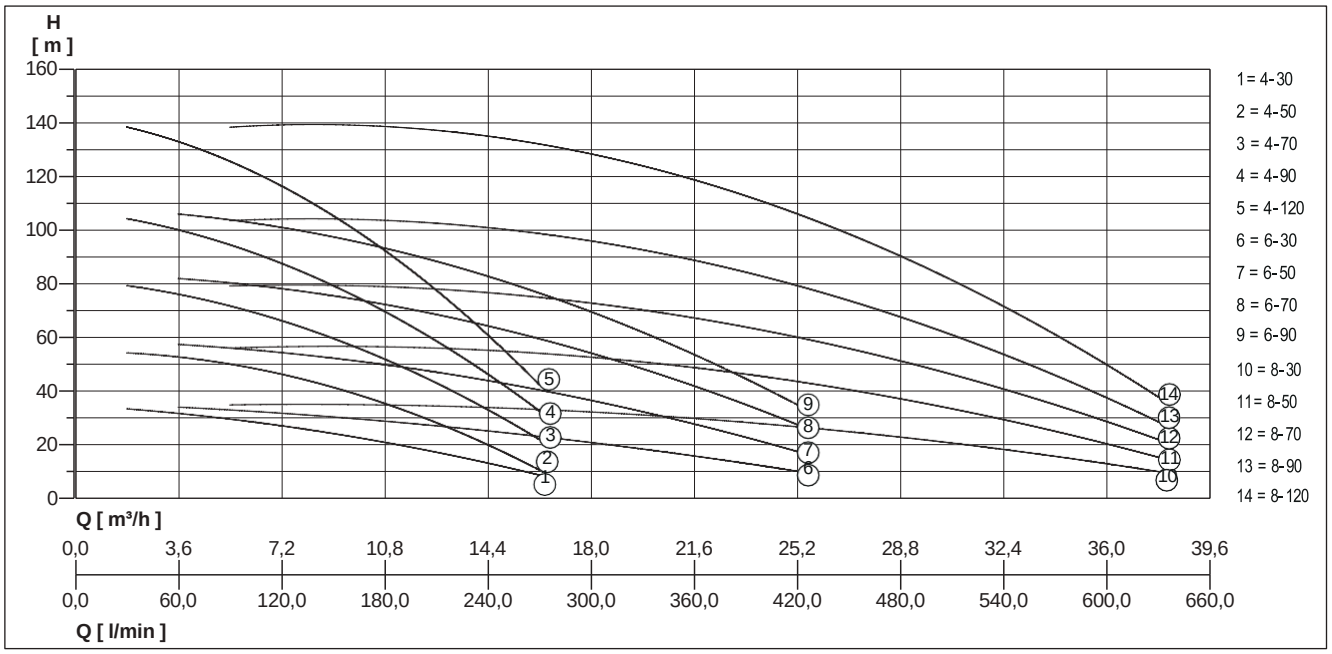
ELECTRICAL DATA

Voltage Type of enclosure	3/N/PE~400 V IP 55	Ambient temperature max.	50 °C

VSBP 3-3 MPINOX

BOOSTER SETS - VARIABLE SPEED

PERFORMANCE



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 ISO 9906:2012 - Grade 3B tolerances.

Type	Flow rate Q [m³/h]	1.8	3.6	5.4	7.2	9	10.8	12.6	14.4	16.2	18	21.6	25.2	27	32.4	37.8
VSBP3-3MPINOX 4-30	Delivery head H [m]	33	32	30	27	24	21	17	13	9						
VSBP3-3MPINOX 4-50		55	52	50	46	41	35	29	22	15						
VSBP3-3MPINOX 4-70		79	76	72	67	60	51	42	34	22						
VSBP3-3MPINOX 4-90		104	100	95	88	79	69	58	48	32						
VSBP3-3MPINOX 4-120		138	133	126	117	105	92	78	60	43						
VSBP3-3MPINOX 6-30			34	33	32	30	29	27	25	23	21	16	10			
VSBP3-3MPINOX 6-50			58	56	54	52	49	47	44	41	37	28	17			
VSBP3-3MPINOX 6-70			83	80	77	76	71	69	64	60	55	42	27			
VSBP3-3MPINOX 6-90			107	104	100	97	92	88	83	77	71	54	34			
VSBP3-3MPINOX 8-30				35	35	35	35	34	34	33	32	30	27	25	18	10
VSBP3-3MPINOX 8-50				57	56	56	56	56	55	54	53	50	44	40	28	16
VSBP3-3MPINOX 8-70				80	80	79	78	77	76	75	73	69	60	56	40	22
VSBP3-3MPINOX 8-90				104	104	104	103	103	101	98	94	90	82	73	52	29
VSBP3-3MPINOX 8-120				139	139	139	138	138	135	131	126	120	109	98	70	38

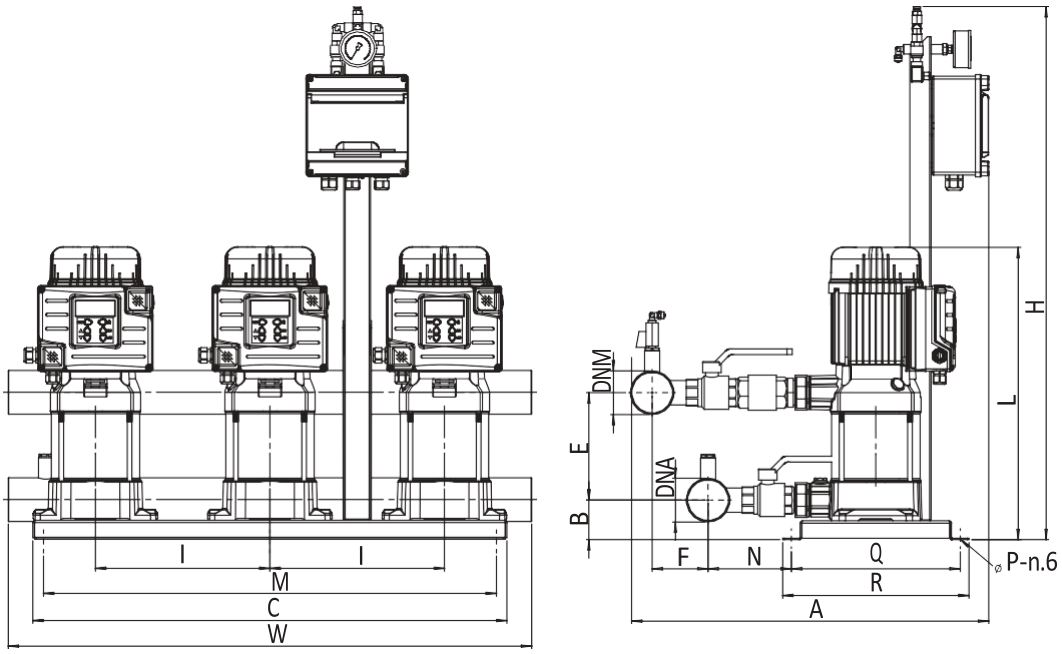
VSBP 3-3 MPINOX

BOOSTER SETS - VARIABLE SPEED

VSBP 3-3 MPINOX

Type	Motor rating 3xP2	Current 3xI	Temperature of the liquid max.	Weight
VSBP3-3MPINOX 4-30	0.50 kW	2.54 A	50 °C	116 kg
VSBP3-3MPINOX 4-50	0.84 kW	3.90 A	50 °C	129 kg
VSBP3-3MPINOX 4-70	1.17 kW	5.46 A	50 °C	141 kg
VSBP3-3MPINOX 4-90	1.50 kW	7.22 A	50 °C	144 kg
VSBP3-3MPINOX 4-120	2.00 kW	9.42 A	50 °C	150 kg
VSBP3-3MPINOX 6-30	0.67 kW	3.58 A	50 °C	117 kg
VSBP3-3MPINOX 6-50	1.10 kW	5.26 A	50 °C	129 kg
VSBP3-3MPINOX 6-70	1.50 kW	8.21 A	50 °C	141 kg
VSBP3-3MPINOX 6-90	2.00 kW	9.13 A	50 °C	144 kg
VSBP3-3MPINOX 8-30	1.00 kW	2.60 A	50 °C	117 kg
VSBP3-3MPINOX 8-50	1.50 kW	4.33 A	50 °C	129 kg
VSBP3-3MPINOX 8-70	1.90 kW	6.13 A	50 °C	141 kg
VSBP3-3MPINOX 8-90	3.00 kW	9.70 A	50 °C	178 kg
VSBP3-3MPINOX 8-120	4.00 kW	12.30 A	50 °C	185 kg

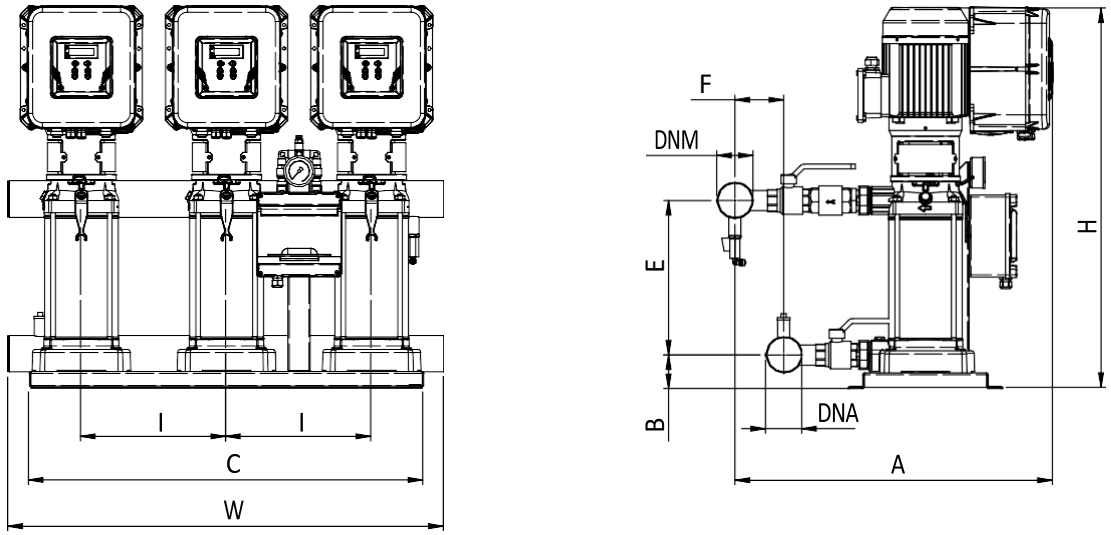
Fig. 1



VSBP 3-3 MPINOX

BOOSTER SETS - VARIABLE SPEED

Fig. 2



DIMENSIONS [mm]

Type	Fig.	A	B	C	F	H	I	L	M	N	P	Q	R	W	DNA	DNM	E
VSBP3-3MPINOX 4-30	1	615	68	815	96	910	300	449	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	130
VSBP3-3MPINOX 4-50	1	615	68	815	96	910	300	503	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	184
VSBP3-3MPINOX 4-70	1	615	68	815	96	910	300	557	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	238
VSBP3-3MPINOX 4-90	1	615	68	815	96	910	300	611	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	292
VSBP3-3MPINOX 4-120	1	615	68	815	96	910	300	693	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	373
VSBP3-3MPINOX 6-30	1	615	68	815	96	910	300	449	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	130
VSBP3-3MPINOX 6-50	1	615	68	815	96	910	300	503	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	184
VSBP3-3MPINOX 6-70	1	615	68	815	96	910	300	557	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	238
VSBP3-3MPINOX 6-90	1	615	68	815	96	910	300	611	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	292
VSBP3-3MPINOX 8-30	1	615	68	815	96	910	300	449	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	130
VSBP3-3MPINOX 8-50	1	615	68	815	96	910	300	503	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	184
VSBP3-3MPINOX 8-70	1	615	68	815	96	910	300	557	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	238
VSBP3-3MPINOX 8-90	2	780	68	815	96	765	300	765	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	292
VSBP3-3MPINOX 8-120	2	780	68	815	96	890	300	890	778,5	145	10,5	290	320	900	2 1/2"	2 1/2"	373

SECTION 5

DPS

- Alarm in case of low air pressure inside the tank (considering high number of pump start and stop)
- Dry running and motor overheating protection
- Function ART (Automatic Reset Test): when the device is disconnected due to dry running it has been conceived to be able to automatically try to reconnect until the water is back in the system.

DESCRIPTION

DPS is an electronic pressure switch with an integrated digital pressure gauge. It can manage the start and stop of single-phase electric pumps up to 2,2 Kw. Cut-in and cut-out pressure implementation can be set easily and accurately through an user friendly control panel. It can operate as a differential pressure switch, as an inverted pressure switch, or just with max. or minimum pressures.

DPS includes also instantaneous current lecture, it controls and manages the overcurrent, the dry running of the pump and the fast cycling protection.

MECHANICAL DATA

Dry run protection	Yes	Temperature of the liquid max.	50 °C

ELECTRICAL DATA

Voltage	1/N/PE~230 V	Type of enclosure	IP 55
Motor rating 3xP1	2.2 kW	Motor protection	Integrated
Current	30 A	Frequency	50/60 Hz

EFC
ELECTRONIC FREQUENCY CONVERTER

- Energy savings
- Constant output pressure with an increase of comfort for the final user
- Silent operation
- Multi purpose solution
- Inter flow sensor
- Control panel LCD display

DESCRIPTION

EFC (Variable Speed Drive) is a static frequency converter that controls the speed of an electric pump to maintain constant pressure even when water demand changes.

This regulation is possible through a pressure sensor and a flow sensor connected to the inverter.

Versions:

EFC controls a single- phase or three- phase pump, it is easy to install and set, it is only necessary to select the pressure set- point. The supply voltage of the device is single- phase 230V.

EFC controls a three phase pump and it is able to communicate with another hydraulic device thanks to the installation of a communication cable. The supply voltage can be single phase 230V or three phase 400V depending on the model.

APPLICATIONS

- To start and stop single-phase surface or submersed pumps.

MECHANICAL DATA

Dry run protection	Yes	Temperature of the liquid max.	40 °C
Operating pressure max.	16 bar		

ELECTRICAL DATA

Type of enclosure	IP 55	Frequency	50/60 Hz
Ambient temperature max.	50 °C		

EFC

Type	Voltage	Pump voltage	Motor protection	Weight
EFC 9 M/M	1/N/PE-230 V	1/N/PE-230 V	9 A	2.5 kg
EFC 6 M/T	1/N/PE-230 V	3/N/PE-230 V	6 A	2.5 kg
EFC 10 M/T	1/N/PE-230 V	3/N/PE-230 V	10 A	2.5 kg
EFC 6 M/T	1/N/PE-230 V	3/N/PE-230 V	6 A	2.7 kg
EFC 10 M/T	1/N/PE-230 V	3/N/PE-230 V	10 A	2.7 kg
EFC 9 T/T	3/N/PE-400 V	3/N/PE-400 V	9 A	4.3 kg
EFC 14 T/T	3/N/PE-400 V	3/N/PE-400 V	14 A	6.1 kg

Fig. 1

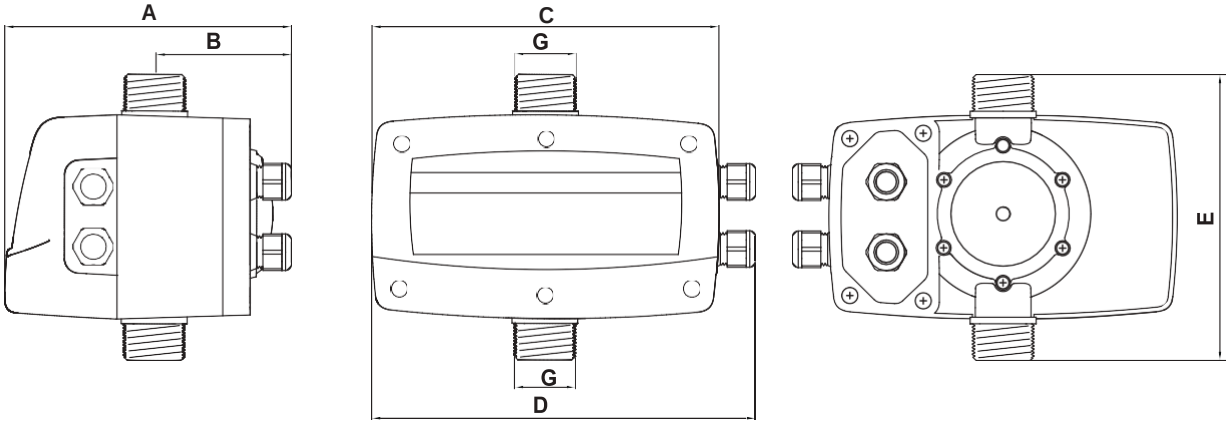


Fig. 2

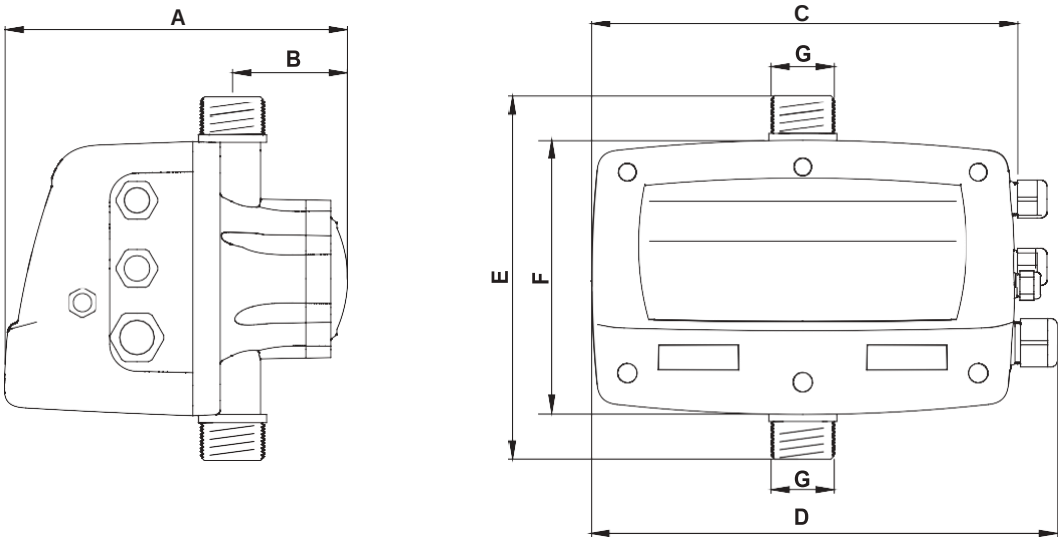
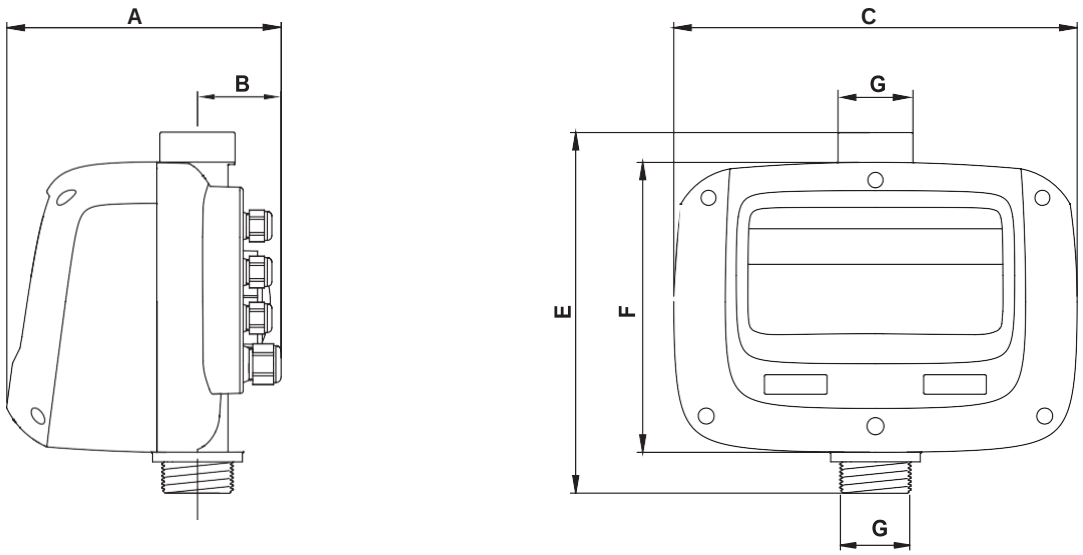
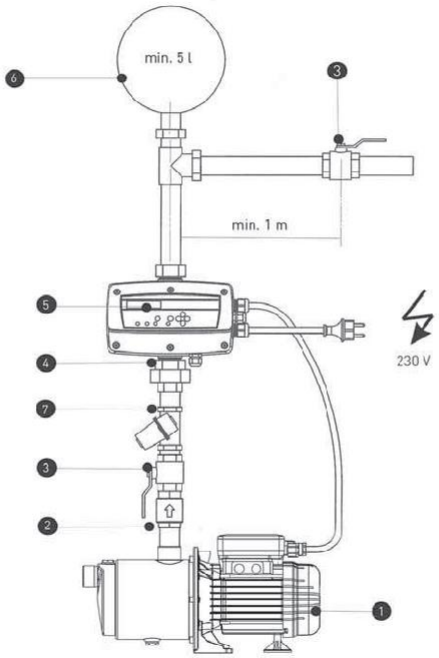


Fig. 3



Installation



EFC

ELECTRONIC FREQUENCY CONVERTER

DIMENSIONS [mm]

Type	Fig.	A	B	C	D	F	E	D
EFC 9 M/M	1	196	93	237	262		196	1 1/4"
EFC 6 M/T	1	196	93	237	262		196	1 1/4"
EFC 10 M/T	1	196	93	237	262		196	1 1/4"
EFC 6 M/T	1	196	93	237	262		196	1 1/4"
EFC 10 M/T	1	196	93	237	262		196	1 1/4"
EFC 9 T/T	2	226	76	280	310	181	240	1 1/4"
EFC 14 T/T	3	238	72	350		252	313	2"

PRESSURE TANKS

PRESSURE TANKS

- 7 models 100% stainless steel
- Many possible uses for commercial market

DESCRIPTION

PRESSURE TANKS - Stainless steel

Brighton pressure tanks are made of stainless steel AISI 304 in 7 models with the aim to meet all the requirements of civil and industrial systems and ensure the suitability of the product for use with food. Especially suitable for humid rooms CE certified.
HORIZONTAL: Interchangeable bromobutyl membrane with a capacity of 24 litres per membrane, with a bracket to mount the pump and a support foot. Pre-load 1.5 bar.

VERTICAL: Interchangeable bromobutyl membrane with a capacity of 8-20-24 litres . The latter also in the solution without membrane and with air supply. Pre-load 1.5 bar.

PRESSURE TANKS - Painted steel

Pressure tanks for water lifting systems, in painted steel, from 2 to 500 litres, with interchangeable membrane.

Painted carbon steel flange.

CE certiied. Preload: 1.5 bar in models from 2 to 24 lt - 2.0 bar in models from 60 to 500 lt CE Certiied.

PRESSURE TANKS

Type	Operating pressure max.	Alignment	Membrane	Feet bracket	Capacity	Weight
Material:Stainless steel						
PT INOX 8	8 bar	vertical	Bromobutyl	No	8 l	2.40 kg
PT INOX 20	8 bar	vertical	Bromobutyl	No	20 l	3.30 kg
PT INOX 24	8 bar	vertical	Bromobutyl	No	24 l	5.00 kg
PT INOX 24 H	8 bar	horizontal	Bromobutyl	Yes	24 l	4.20 kg
Material:Painted steel						
PT 2	6 bar	-	Rubber for food use	No	2 l	0.95 kg
PT 24 V	6 bar	vertical	Rubber for food use	No	24 l	4.10 kg
PT 24 H	6 bar	horizontal	Rubber for food use	Yes	24 l	4.80 kg
PT 60 V	10 bar	vertical	Butyl rubber	Yes	60 l	17.50 kg
PT 100 V	10 bar	vertical	Butyl rubber	Yes	100 l	19.00 kg
PT 200 V	10 bar	vertical	Butyl rubber	Yes	200 l	37.00 kg
PT 300 V	10 bar	vertical	Butyl rubber	Yes	300 l	54.00 kg
PT 500 V	10 bar	vertical	Butyl rubber	Yes	500 l	104.00 kg

Fig. 1

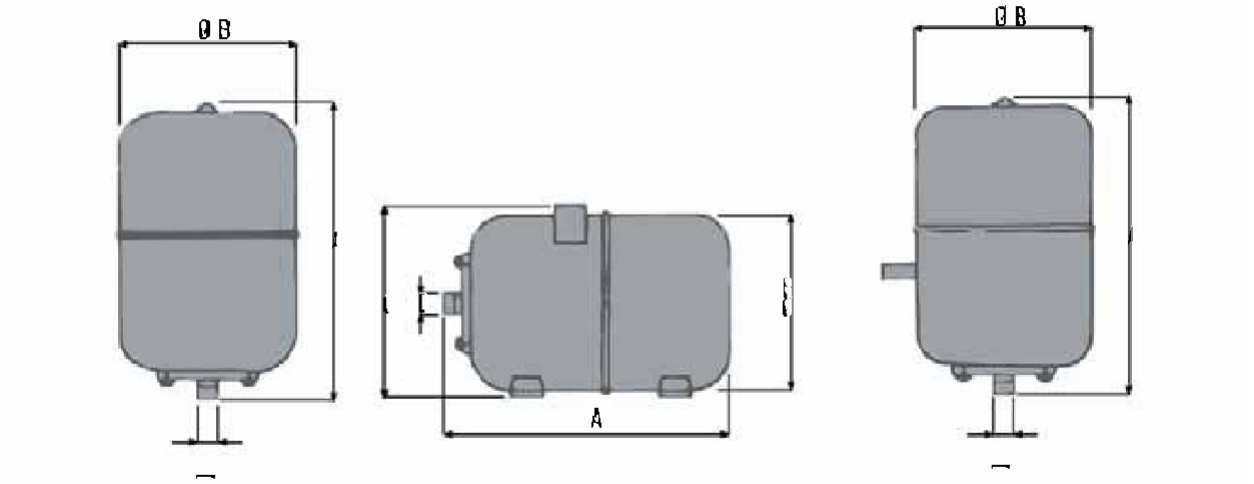
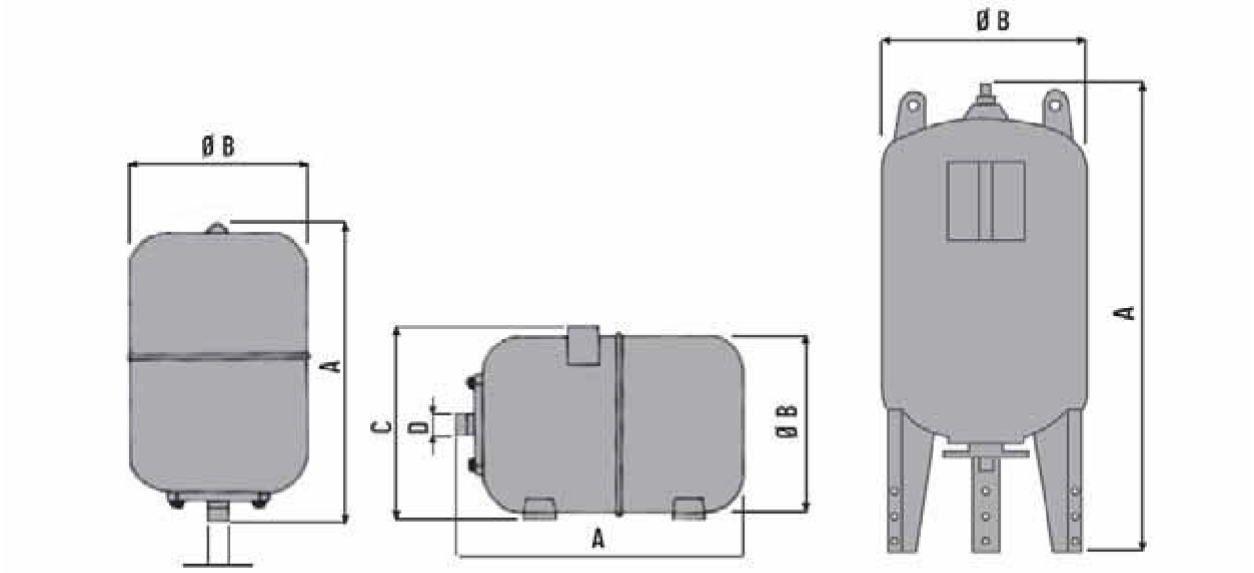


Fig. 2



DIMENSIONS [mm]

Type	Fig.	A	B	C	D
PT INOX 8	1	280	226		1″
PT INOX 20	1	390	272		1″
PT INOX 24	1	430	272		1″
PT INOX 24 H	1	430	272	330	1″
PT 2	2	175	155		1″ M
PT 24 V	2	415	295		1″ M
PT 24 H	2	415		310	1″ M
PT 60 V	2	845	382		1″ M
PT 100 V	2	950	450		1″ M
PT 200 V	2	1225	550		1 1/2″ M
PT 300 V	2	1405	630		1 1/2″ M
PT 500 V	2	1550	780		1 1/2″ M

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