

Product catalogue

Pumps, motors, hydrophores,
inverters, controllers

iQ PR 



DAMBAT is a dynamically developing Polish manufacturer of water pumps and accessories sold under the iQ PR brand

The company started its operations in 1999 and from the very beginning its development was based on understanding the needs of customers, providing them with high-quality products. Thanks to the experience and knowledge of qualified staff and systematic improvement of its products, DAMBAT has become a significant manufacturer of water pumps on the European market.

We cooperate with well-known manufacturers of water equipment from all over the world, thanks to which we are constantly developing and expanding our offer. In cooperation with Italian partners, we sell the highest quality tanks and submersible pumps and motors.

iQ PR brand products are characterized by long-term, safe and failure-free operation. The offer created from excellent quality products and an individual approach to the customer, allowed us to develop a distribution network in most European countries, as well as beyond its borders.

Experience, knowledge and reliability are the features that guarantee that when choosing devices supplied by DAMBAT, you receive a product of the highest quality.



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Surface pumps

BJ
IWH
JET PRO
S-MCI
MH PRO
Pi-JET



BJ



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Single-stage, self-priming, centrifugal surface pump, featuring a system for increasing suction capacity through the use of a Venturi tube. Designed for pumping clean, cold water from its own intakes and for boosting pressure. This pump model is used for supplying water to houses, recreational plots and irrigation.

FEATURES:

- Small form factor
- Premium materials
- Operation with tank or automatic hydrophore units (e.g. WATER PASS 2)
- Thermal protection integrated into the motor winding

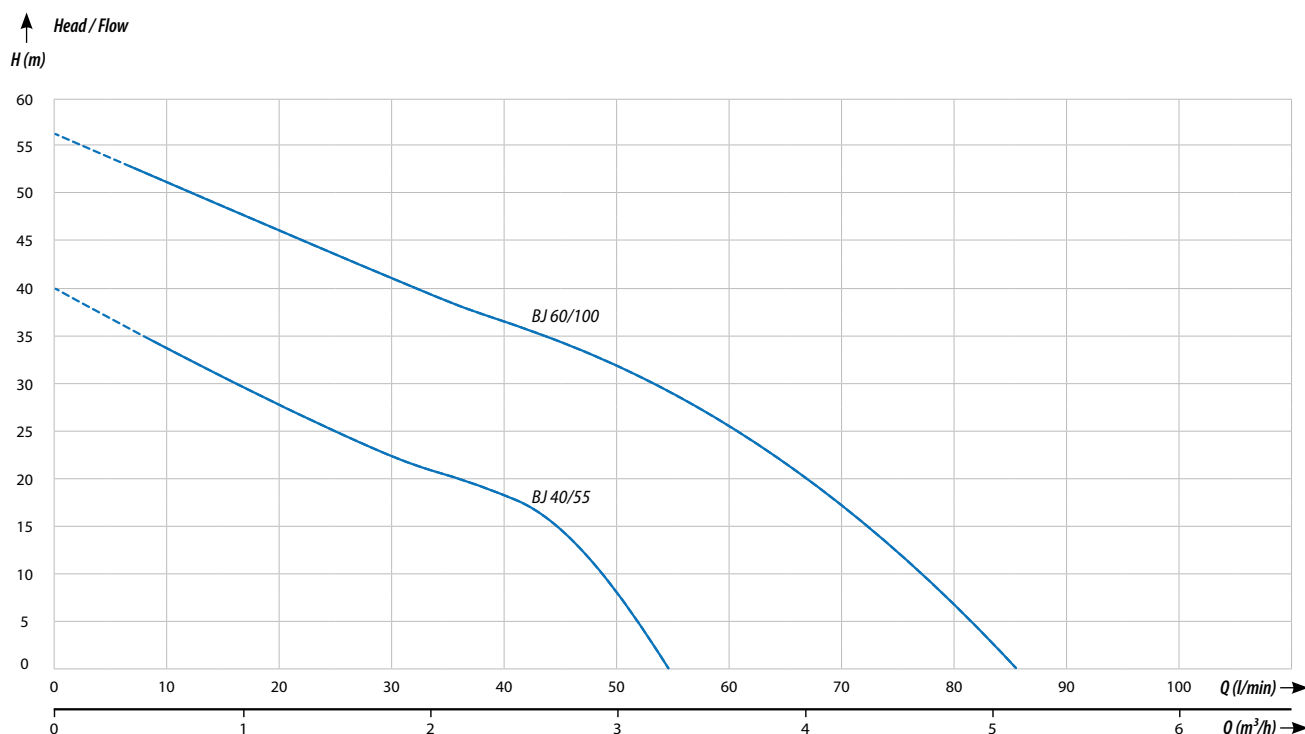
TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation grade: F
- Ingress protection: IP55
- Operating mode: continuous
- Max. pressure: 1 MPa
- Motor speed: 2900 RPM



MATERIALS:

- Pump body: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: polimer PPO
- Interwall: AISI 304 stainless steel
- Diffuser / guide vane: polimer PPO
- Mechanical seal: ceramic / graphite / NBR



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
BJ 40/55	40	55	550	230	3,8	9	1 × 1	36 / 20 / 18,5	6,5
BJ 60/100	56	85	1300	230	8,4	9	1¼ × 1	43 / 23 / 21	14

IWH



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Single-stage, self-priming, centrifugal surface pump, featuring a system for increasing suction capacity through the use of a Venturi tube. Designed for pumping clean, cold water from its own intakes and for boosting pressure. The pumps are used in water supplies to houses, recreational plots and irrigation.

FEATURES:

- Small form factor
- Premium materials
- Operation with tank or automatic hydrophore units (e.g. WATER PASS 2)
- Thermal protection integrated into the motor winding

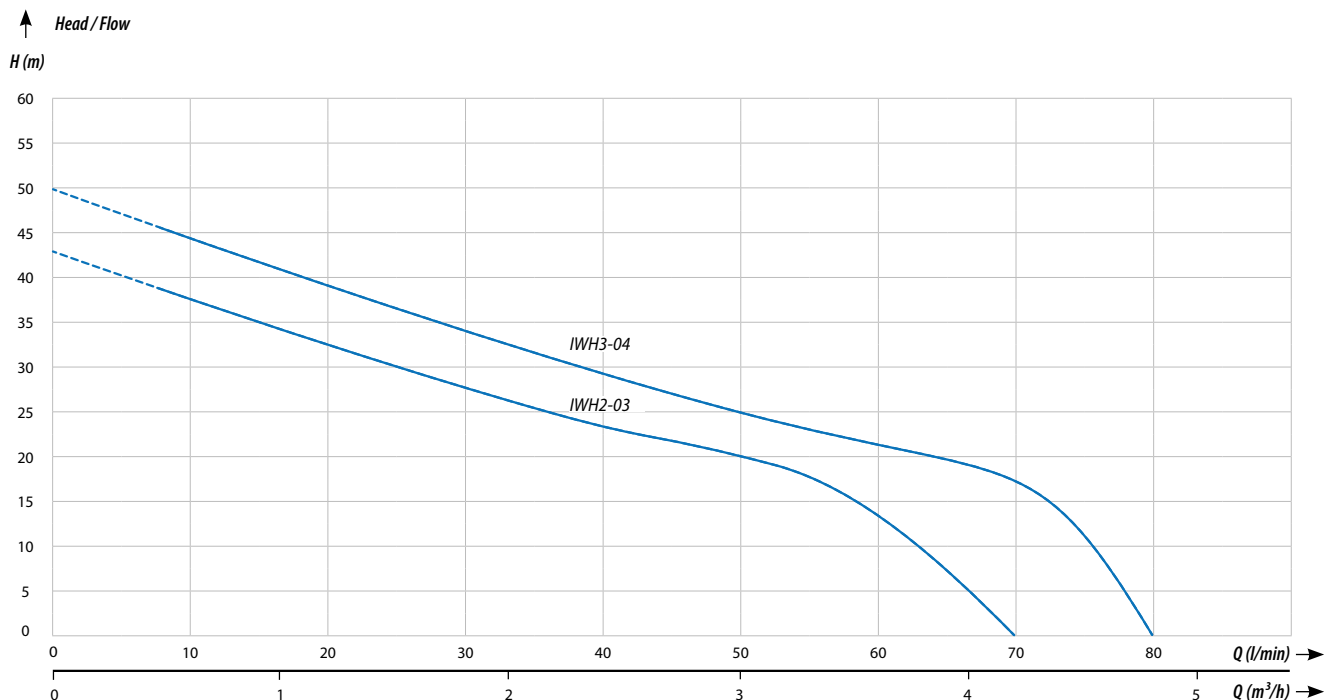
TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation grade: F
- Ingress protection: IP55
- Operating mode: continuous
- Max. pressure: 1 MPa
- Motor speed: 2900 RPM



MATERIALS:

- Pump body: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 316 stainless steel
- Interwall: AISI 304 stainless steel
- Diffuser / guide vane: polimer PPO
- Mechanical seal: ceramic / graphite / NBR



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
IWH2-03	43	70	750	230	5,2	9	1 × 1	37 / 20 / 19	9,5
IWH3-04	50	80	1000	230	6,2	9	1 × 1	42 / 22 / 20	11

JET PRO

Single-stage, self-priming, centrifugal surface pump characterized by the highest quality workmanship, featuring a system for increasing suction capacity through the use of a Venturi tube. The pump is designed to pump clean, cold water from its own intakes and to boost pressure. The pumps are used in the supply of water to houses, recreational plots, farms, industry and irrigation.

FEATURES:

- Made of premium materials
- Quiet operation
- Operation with tank or automatic hydrophore units (e.g. WATER PASS 2)
- Thermal protection integrated into the motor winding

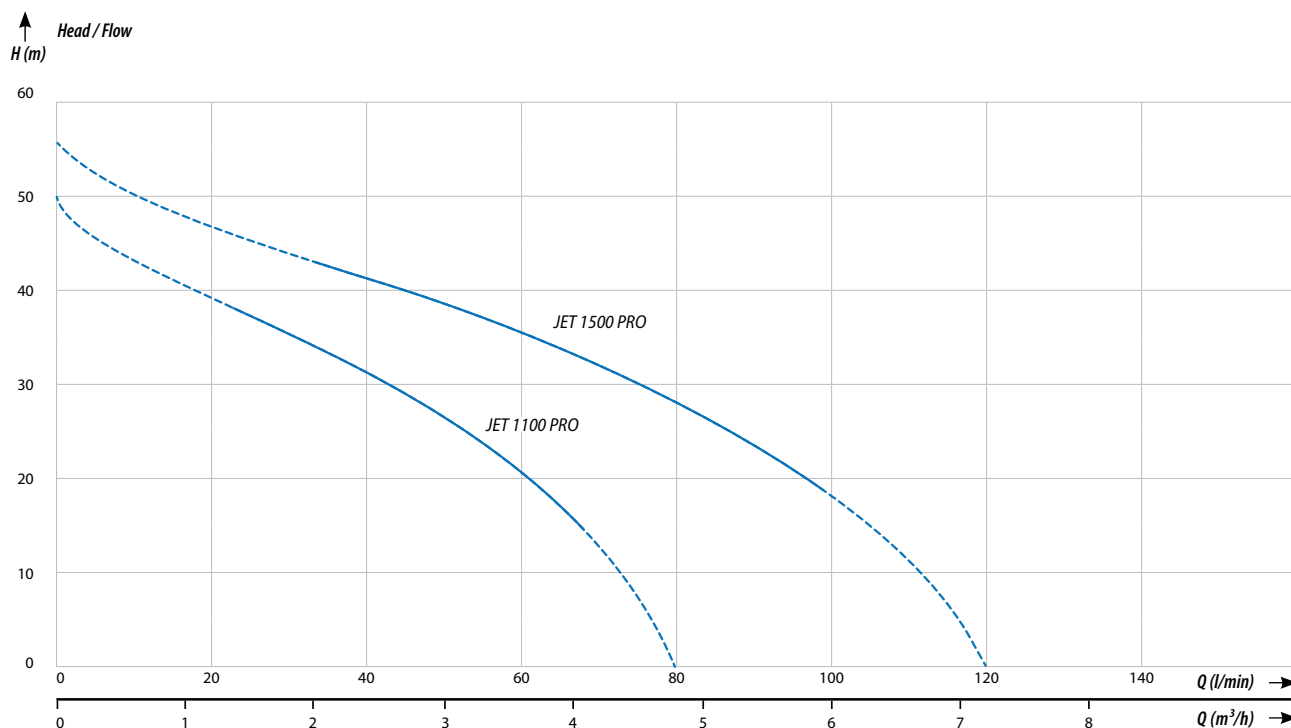
TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 60°C
- Max. ambient temperature: 40°C
- Power supply: 230 V
- Insulation grade: F
- Ingress protection: X4
- Operating mode: continuous
- Max. pressure: 1 MPa
- Motor speed: 2860 RPM



MATERIALS:

- Pump housing: grey cast iron
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: polymer PPO
- Interwall: AISI 304 stainless steel
- Mechanical seal: ceramic / graphite / NBR



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
JET 1100 PRO	58	60	1100	230	6	9	1 × 1	47 / 20,5 / 19	18,5
JET 1500 PRO	55	120	1500	230	10	9	1½ × 1½	50 / 24,5 / 21	25,5

S-MCI



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Multi-stage, self-priming, centrifugal surface pump characterized by the highest quality workmanship, featuring a system for increasing suction capacity through the use of a Venturi tube. The pump is designed to pump clean, cold water from its own intakes and to boost pressure. The pumps are used in the supply of water to houses, recreational plots, farms, industry and irrigation.

FEATURES:

- High flow and high pressure
- Made of premium materials
- Quiet operation
- Operation with tank or automatic hydrophore units (e.g. WATER PASS 2)
- Thermal protection integrated into the motor winding

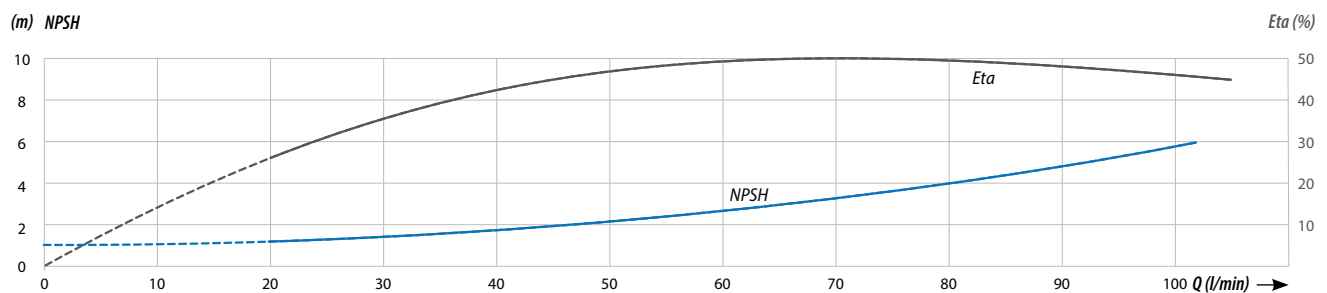
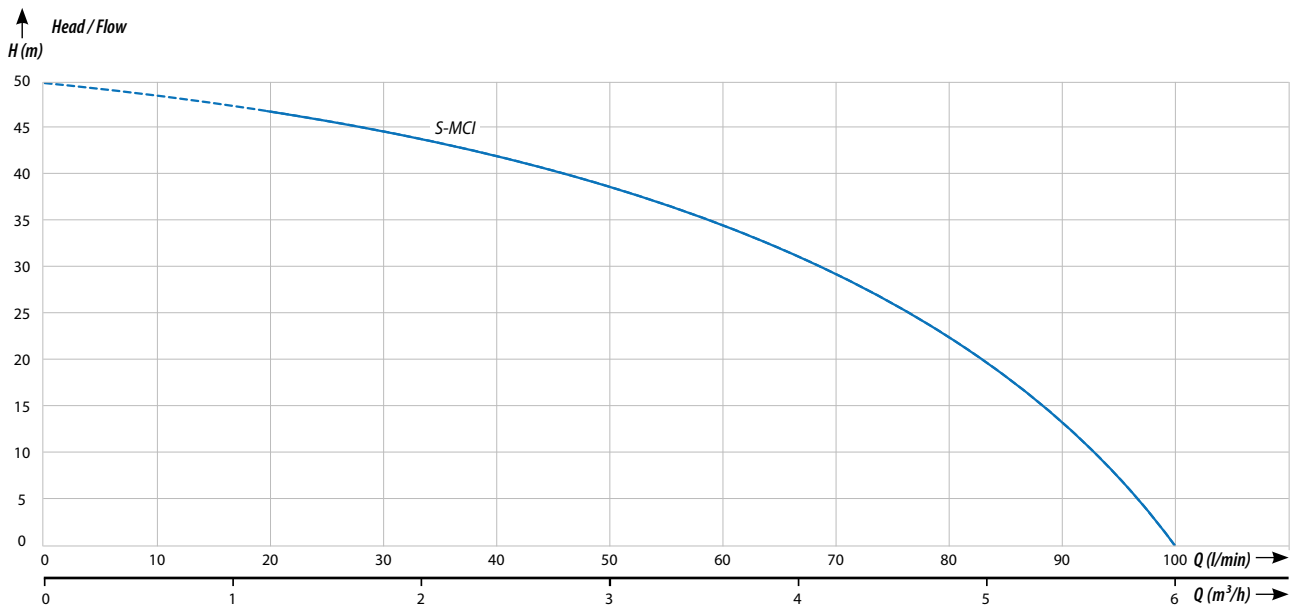
TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 40°C
- Power supply: 230 V
- Insulation grade: F
- Ingress protection: IP55
- Operating mode: continuous
- Max. pressure: 8 MPa
- Motor speed: 2900 RPM



MATERIALS:

- Motor: asynchronous, squirrel cage, closed structure, aluminium housing, external ventilation
- Pump body: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impellers, diffusers: AISI 304 stainless steel
- Suction diffuser: polymer PPO
- Interwall: AISI 304 stainless steel
- Mechanical seal: SiC / SiC / EPDM



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
S-MCI	50	100	750	230	5,2	5	1 × 1	41 / 18 / 16,5	11,5

MH PRO



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A series of multi-stage, self-priming centrifugal surface pumps characterized by the highest quality workmanship, featuring a system that increases suction capacity through the use of a Venturi tube. Designed for pumping clean, cold water from its own intakes and for boosting pressure. The pumps are used both in households (water supply, watering, rainwater) and in industry (car washes, air conditioning systems, refrigeration).

FEATURES:

- High flow and pressure
- Made of premium materials
- Quiet operation
- Operation with tank or automatic hydrophore units (e.g. WATER PASS 2)
- Thermal protection integrated into the motor winding

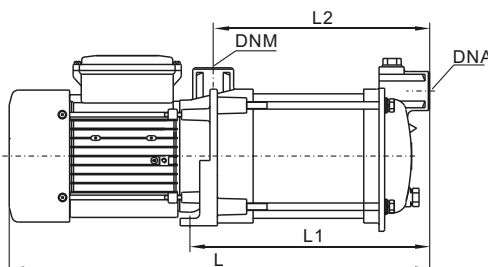
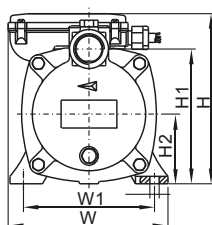
TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Power supply: 1 ~ 230 V or 3 ~ 230 V or 3 ~ 400 V
- Insulation grade: F
- Ingress protection: IP55
- Operating mode: continuous
- Motor speed: 2900 RPM



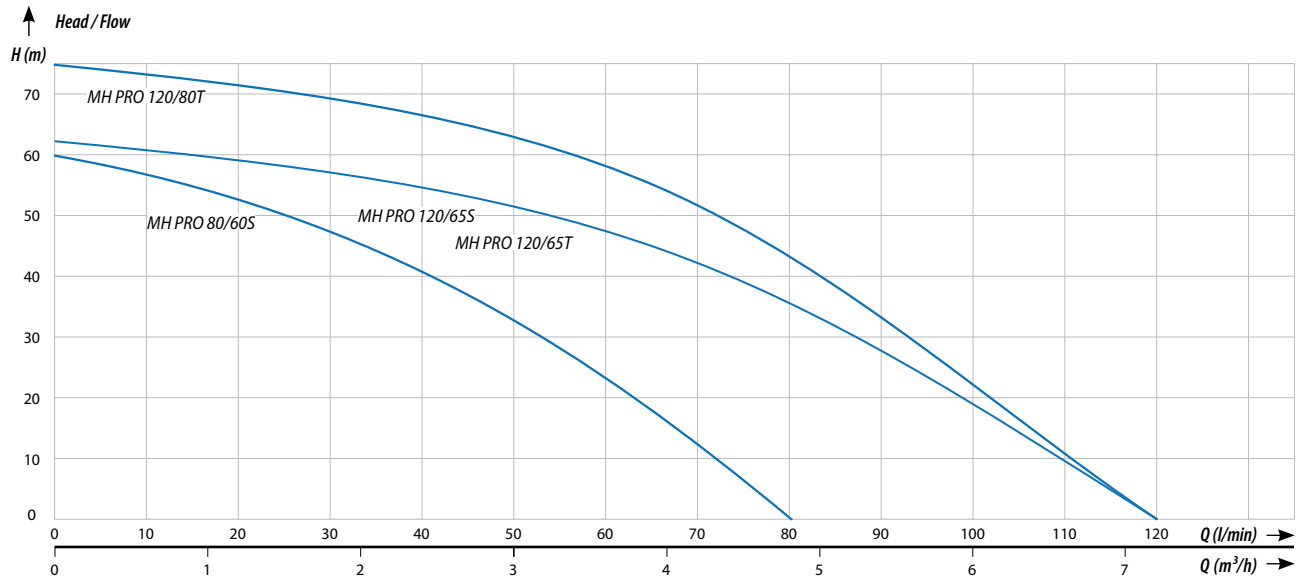
MATERIALS:

- Motor: asynchronous, squirrel cage, closed structure, aluminium housing, external ventilation
- Body: AISI 304 stainless steel
- Shaft: AISI 304 stainless steel
- Mechanical seal: SiC / SiC / EPDM
- Ports: grey cast iron
- Impeller: polimer PPO
- Diffuser: polimer PPO
- Base: cast iron

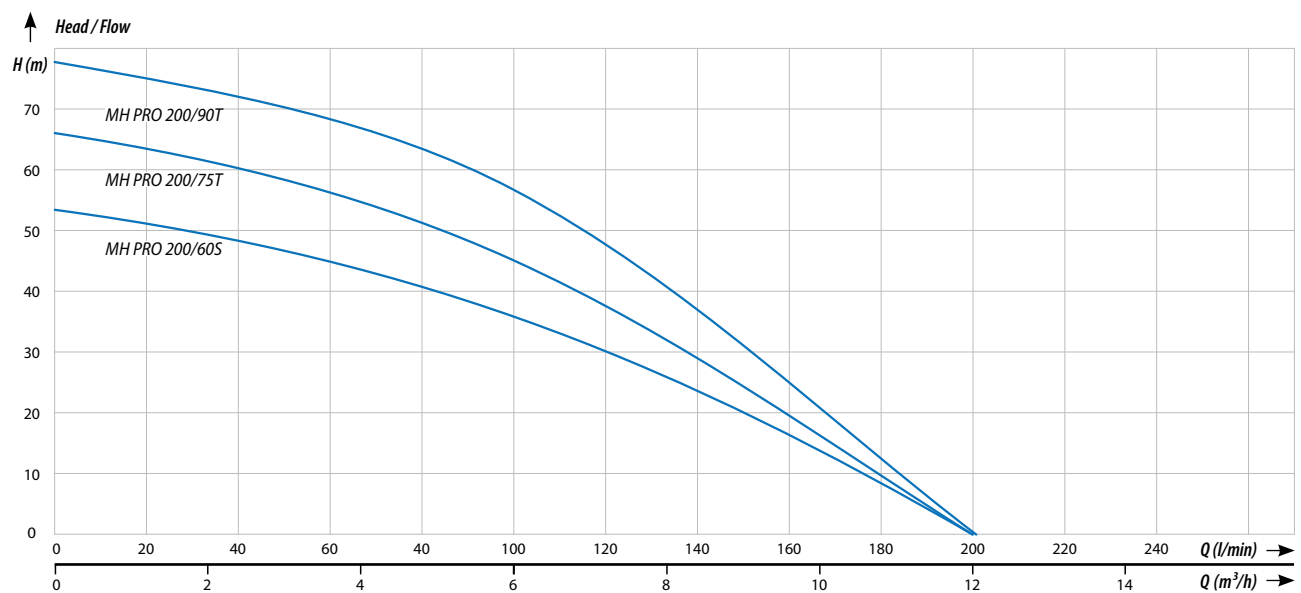


Model	Dimensions (mm)									
	L	L1	L2	W1	H1	H2	Three phases		DNA	DNM
							W	H		
MH PRO 80/60S	455	260	233	141	145	75	172	184	G1	G1
MH PRO 120/65S	489	264	239	120,5	155	85	169	211	G1	G1
MH PRO 200/60S	490	254	229	120,5	158	85	177	211	G1¼	G1¼
MH PRO 120/65T	489	264	239	120,5	155	85	152	189	G1	G1
MH PRO 120/80T	513	288	263	120,5	155	85	152	189	G1	G1
MH PRO 200/55T	518	282	257	120,5	158	85	152	189	G1¼	G1¼
MH PRO 200/90T	546	310	285	120,5	158	85	152	189	G1¼	G1¼

MH PRO cont.



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
MH PRO 80 / 60S	60	80	1000	1 ~ 230	6,2	9	1 × 1	46 / 18,5 / 18	14,5
MH PRO 120 / 65S	63	120	1500	1 ~ 230	9,2	9	1 × 1	49 / 21 / 17	15
MH PRO 120 / 65T	63	120	1500	3 ~ 230 / 3 ~ 400	5,7 / 3,3	9	1 × 1	48,5 / 19 / 17	16,5
MH PRO 120 / 80T	75	120	1500	3 ~ 230 / 3 ~ 400	5,7 / 3,3	9	1 × 1	50,5 / 19 / 17	17



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
MH PRO 200 / 60S	53	200	1500	1 ~ 230	9,2	9	1¼ × 1¼	49 / 21 / 18	19
MH PRO 200 / 75T	66	200	1850	3 ~ 230 / 3 ~ 400	7 / 4	9	1¼ × 1¼	50,5 / 15,5 / 19	13
MH PRO 200 / 90T	78	200	2200	3 ~ 230 / 3 ~ 400	8,2 / 4,7	9	1¼ × 1¼	54 / 19,5 / 15,5	19,5

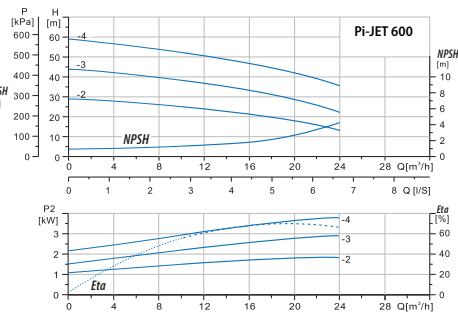
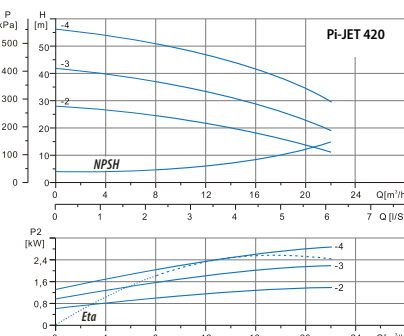
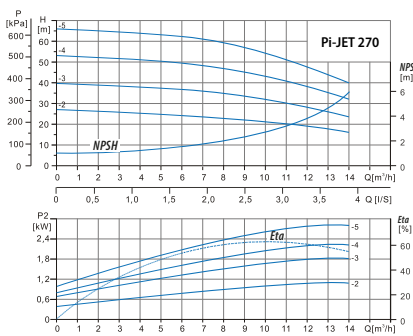
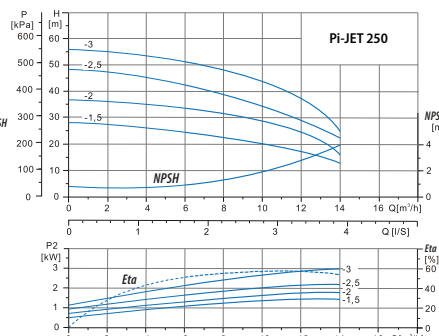
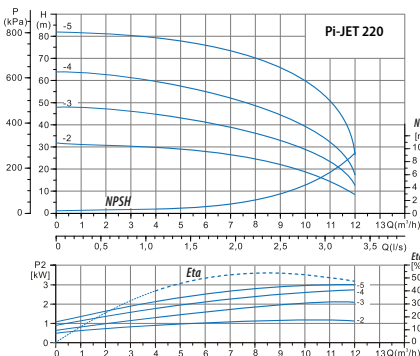
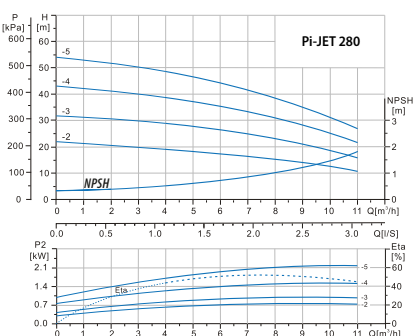
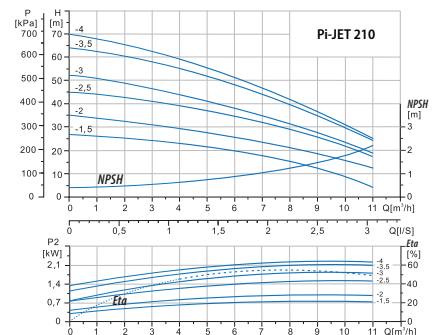
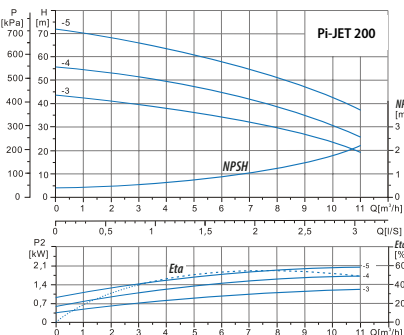
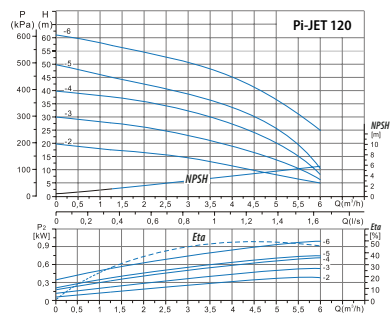
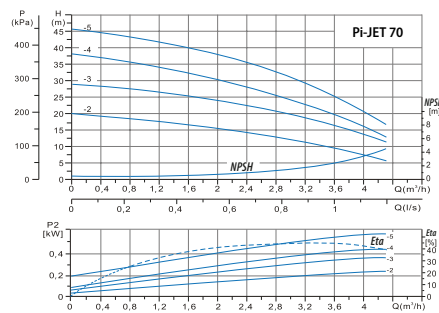
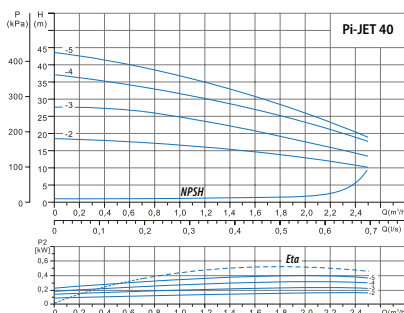
PI-JET

Self-priming multistage stainless steel pump

Intended for clean drinking water supply systems.
Suitable for use in heating or cooling systems.

TECHNICAL SPECIFICATIONS:

- Liquid temperature: -20–70°C
- Max. ambient temperature: 50°C
- Power supply: 1 ~ 230 V or 3 ~ 400 V (3 × 230 V)
- Insulation grade: F
- Max. suction capacity: 8 m
- Max. pressure: 1 MPa



Industrial pumps

PMC INOX
F-CPM
2CPM
COLP
MCI
VMH
CVI INOX
CS



PMC INOX



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PMC INOX centrifugal, single-stage open impeller pumps

The pumps are designed for pumping contaminated liquids and media containing solids with a diameter not exceeding 18 mm. The pumps are used in industry and agriculture. The pumps can operate in both horizontal and vertical positions.

APPLICATION:

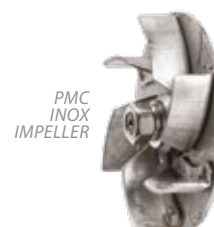
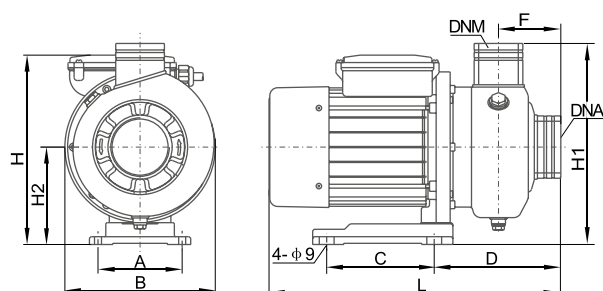
- Food industry: in washing and cleaning machines, to transport food liquids, transferring slurry in processing, vegetable food transfer, fish farms
- Metallurgical industry: material purification, process water systems
- Textile industry: can be applied in dye houses, industrial laundries
- Manufacturing industry: cleaning of bottles, cans, glass, transfer of paint liquids, dosing and mixing, compound machines
- Agriculture: the pumps can be used for transferring moderately viscous liquids with low aggressiveness. They can be used to pump fertilizers. Also used in irrigation and drainage applications
- Public utility facilities: air conditioning systems, purification systems, heating systems, refrigeration systems, swimming pools, water treatment systems
- Washing and cleaning: nano, micro and ultra filtration systems, softening, ionization, demineralization systems, desalination systems, distillation systems, separators
- Chemical and pharmaceutical industry

TECHNICAL SPECIFICATIONS:

- Liquid temperature: 15–104°C
- Max. ambient temperature: 50°C
- Ingress protection: IP55
- Insulation class: F
- Max. system pressure: 10 bar
- Motor speed: 2900 RPM

MATERIALS:

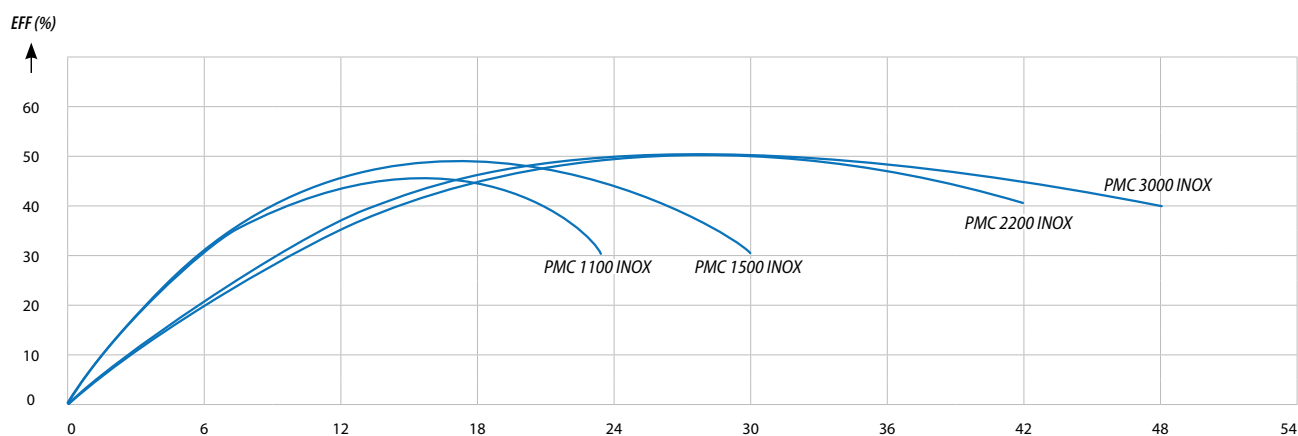
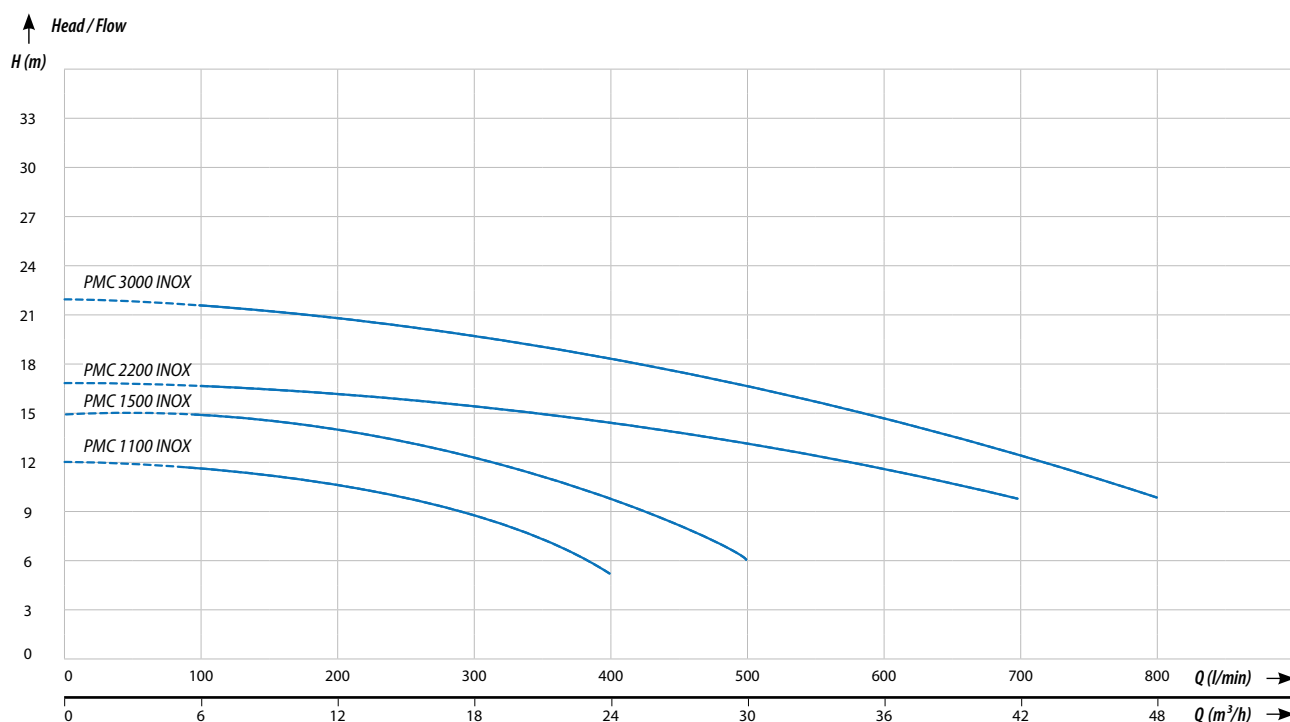
- Motor: asynchronous, squirrel cage, closed structure, aluminium housing, external ventilation
- Shaft: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Interwall: AISI 304 stainless steel
- Mechanical seal: graphite / silicon carbide / NBR



Model	Dimensions (mm)										
	A	B	C	D	F	L	H	H1	H2	DNM	DNA
PMC 1100 INOX	108	193	138	165	82	378	242	258	125	G2	G2
PMC 1500 INOX	108	193	138	165	82	378	242	258	125	G2	G2
PMC 2200 INOX	108	193	138	165	82	413	242	258	125	G2½	G2
PMC 3000 INOX	108	193	138	165	82	430	242	258	125	G2½	G2

PMC INOX cont.

Model	Power (kW)	Flow	l/min	0	100	200	300	400	500	600	700	800
			m ³ /h	0	6	12	18	24	30	36	42	48
PMC 1100 INOX	1,1	H (m)		12	11,5	10	7,5	5	–	–	–	–
PMC 1500 INOX	1,5			15	14	13	10,5	9	6	–	–	–
PMC 2200 INOX	2,2			17	16,5	16	15	13,5	11	10	9	–
PMC 3000 INOX	3			22	20	19	17,5	16,5	15	13	12	11



Model	Head (m)	Flow (l/min)	Power (kW)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
PMC 1100 INOX	12	450	1,1	230 / 400	7 / 2,6	2 × 2	14,5 / 13
PMC 1500 INOX	15	550	1,5	230 / 400	9,2 / 3,3	2 × 2	16 / 14
PMC 2200 INOX	17	770	2,2	230 / 400	14 / 4,7	2½ × 2	20,5 / 18
PMC 3000 INOX	22	900	3	400	6	2½ × 2	22

F-CPM



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F-CPM INOX centrifugal, single-stage closed impeller pumps

The pumps are designed for pumping slightly contaminated liquids and media containing solids with a diameter not exceeding 1 mm. The pump is designed for water with a maximum non-absorbent free solids content of up to 0,26 kg/m³, and a maximum dissolved solids content of up to 51 kg/m³, provided that the total gaseous content in the water does not exceed the saturation degree.

APPLICATION:

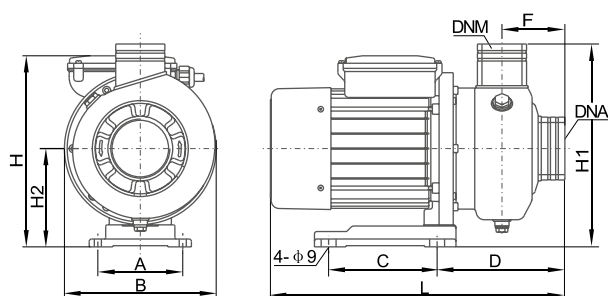
- Food industry: in washing and cleaning machines, to transport food liquids, transferring slurry in processing, fish farms, wineries
- Metallurgical industry
- Textile industry: can be applied in dye houses
- Manufacturing industry: cleaning bottles, cans, glass
- Agriculture: the pumps can be used in the transfer of moderately viscous liquids with low aggressiveness. They can be used for pumping fertilizer. Also used in irrigation and drainage applications
- Swimming pool systems
- Heating industry: in air conditioning and heating systems
- Public utility units: air conditioning systems, purification systems, heating systems, boosting, swimming pools

TECHNICAL SPECIFICATIONS:

- Liquid temperature: 5–90°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Ingress protection: IP55
- Max. system pressure: 10 bar

MATERIALS:

- Motor: asynchronous, squirrel-cage, closed structure, aluminium housing, external ventilation
- Shaft: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Interwall: AISI 304 stainless steel
- Mechanical seal: graphite / silicon carbide / NBR



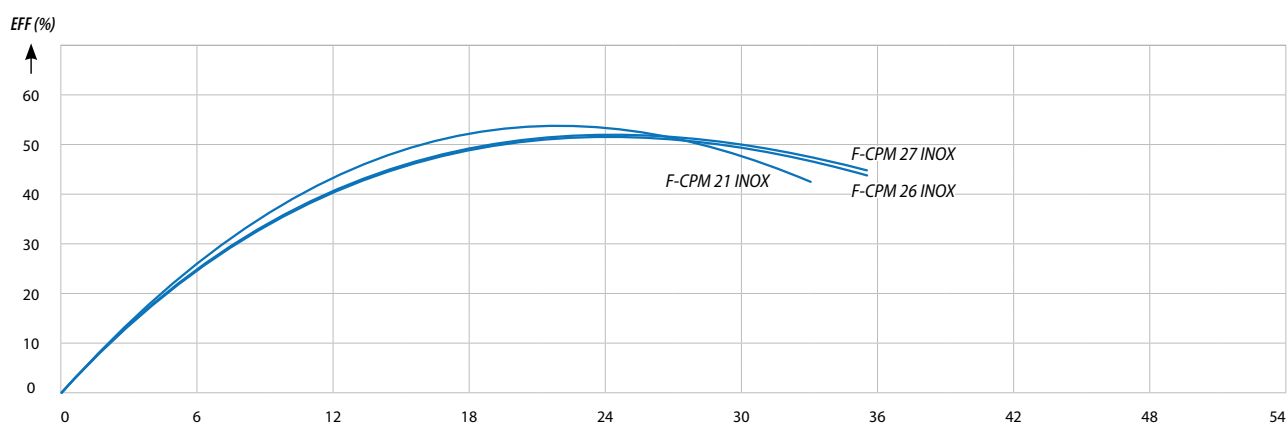
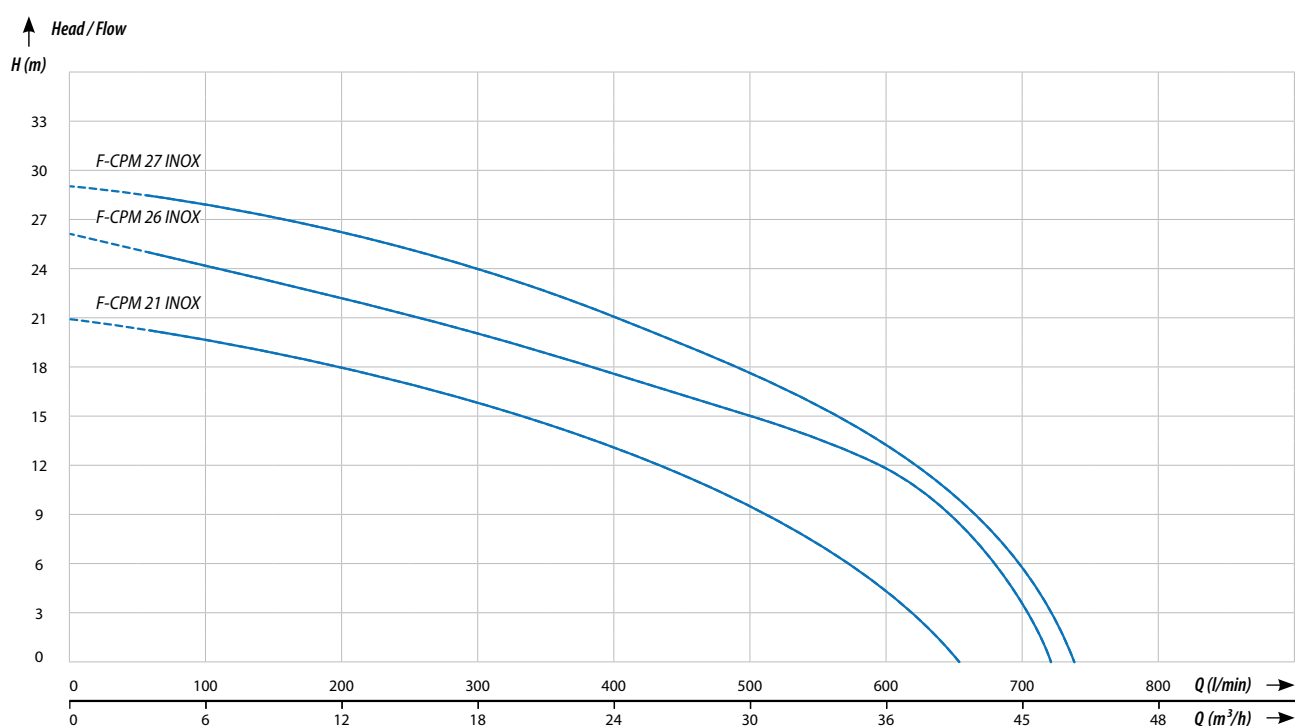
F-CPM INOX
IMPELLER



Model	Dimensions (mm)										
	A	B	C	D	F	L	H	H1	H2	DNM	DNA
F-CPM 21 INOX	108	193	138	165	82	378	243	258	125	G2	G2
F-CPM 26 INOX	108	193	138	165	82	415	242	258	125	G2	G2
F-CPM 27 INOX	108	193	138	165	82	432	242	258	125	G2	G2

F-CPM cont.

Model	Power (kW)	Flow	H (m)	l/min	0	100	200	300	400	500	600
				m ³ /h	0	6	12	18	24	30	36
F-CPM 21 INOX	1,5				21	20	18,5	16	13	10	4
F-CPM 26 INOX	2,2				26	24	22,5	20	17	15	12
F-CPM 27 INOX	3				29	28	26	24	21	17,5	13



Model	Head (m)	Flow (l/min)	Power (kW)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
F-CPM 21 INOX	21	650	1,5	230	9,2	2 × 2	16,5
F-CPM 26 INOX	26	710	2,2	230	14	2 × 2	21
F-CPM 27 INOX	29	740	3	400	6,1	2 × 2	22,5

2CPM

Centrifugal, two-stage closed impeller pumps



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The pumps are designed for pumping slightly contaminated liquids and media containing solids with a diameter not exceeding 1 mm. Pumps for water with a maximum non-absorbent free solids content of up to 0,26 kg/m³, and a maximum dissolved solids content of up to 51 kg/m³, provided that the total gaseous content in the water does not exceed the saturation degree. The double mechanical seal and a double impeller, characterized by high efficiency, make the pumps widely used in industry and agriculture, as well as in horticulture.

APPLICATION:

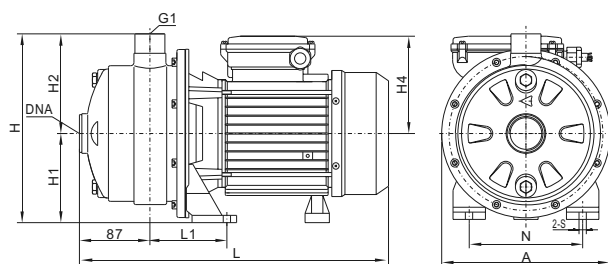
- Food industry: in washing and cleaning machines, to transport food liquids, transferring slurry in processing, fish farms
- Metallurgical industry
- Textile industry: can be applied in dye houses
- Manufacturing industry: cleaning bottles, cans, glass
- Heating industry: in air conditioning and heating systems
- Agriculture: the pumps can be used in the transfer of moderately viscous liquids with low aggressiveness. They can be used to pump fertilizers. They are also used in irrigation and drainage applications
- Swimming pool systems

TECHNICAL SPECIFICATIONS:

- Liquid temperature: 0–70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Ingress protection: IP55
- Max. system pressure: 10 bar

MATERIALS:

- Motor: asynchronous, squirrel-cage, closed structure, aluminium housing, external ventilation
- Shaft: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Interwall: AISI 304 stainless steel
- Mechanical seal: graphite / silicon carbide / NBR



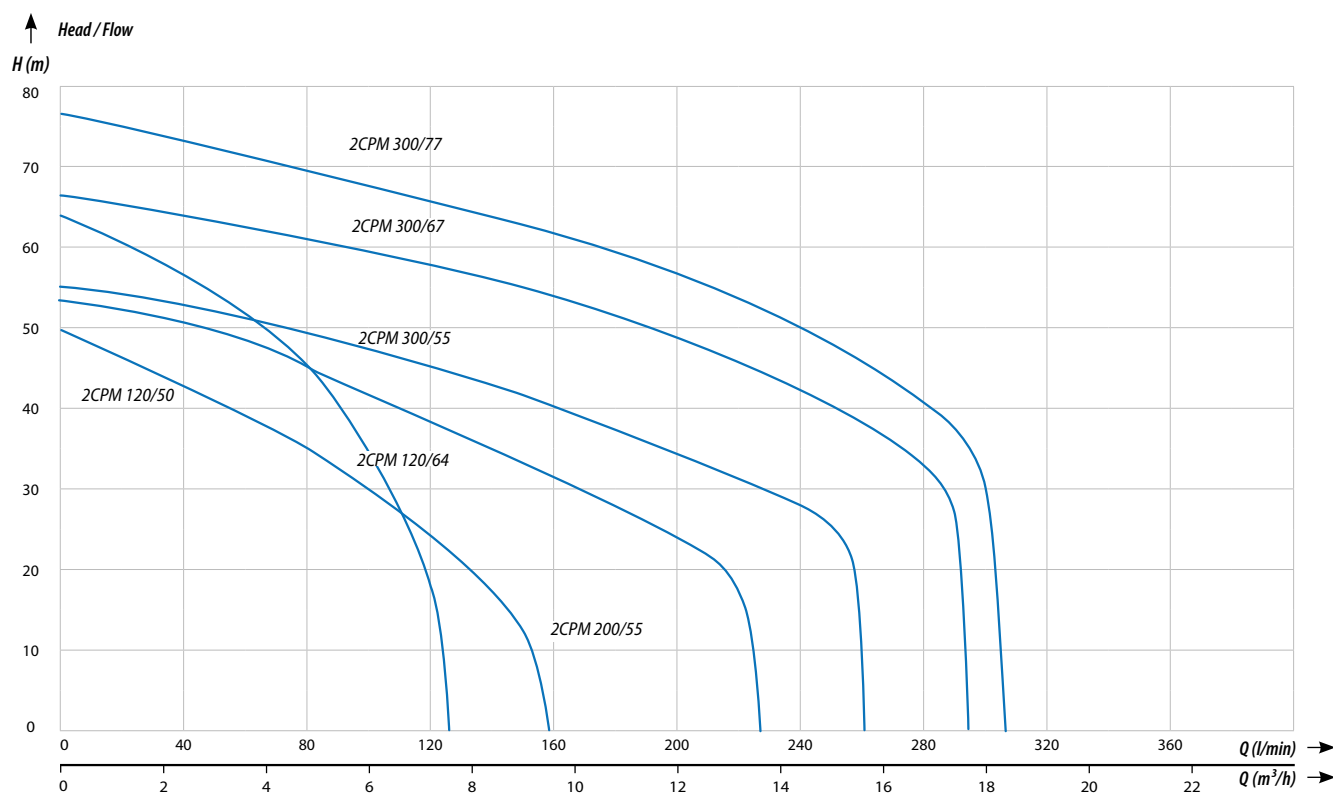
2CPM INOX
IMPELLER



Model	Dimensions (mm)									
	A	L1	N	H	H1	H2	S	DNA	Single phase / Three phases (mm)	
									L	H4
2CPM 120/50	208	95	140	229	106	123	9	G1¼	382	120 / 111
2CPM 120/64	230	109	140	249	118	131	9	G1¼	397 / 382	132 / 111
2CPM 200/55	208	109	140	229	106	123	9	G1¼	397 / 382	132 / 111
2CPM 300/55	208	109	140	229	106	123	9	G1½	– / 415	– / 118
2CPM 300/67	230	109	140	249	118	131	9	G1½	– / 437	– / 118
2CPM 300/77	230	109	160	249	118	131	12	G1½	– / 469	– / 118

2CPM cont.

Model	Power (kW)	Flow m ³ /h	0	1,2	2,4	3,6	4,8	7,2	9	10,8	12,6	15	17
2CPM 120/50	0,9	H (m)	50	46	43	39	35	22	12	–	–	–	–
2CPM 120/64	1,5		63	60	55,5	50,5	45	18	–	–	–	–	–
2CPM 200/55	1,5		54	52	49	46	45	38	33	27	20	–	–
2CPM 300/55	2,2		55	55	53	53	48	46	41	38	32	26	–
2CPM 300/67	2,2		67	66	65	63,5	62	58	55	52	47	39	31
2CPM 300/77	3,7		76	75	72	71	69	66	63	56	53	47	40



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
2CPM 120/50	50	150	0,9	1 ~ 230	7	1¼ × 1	15
2CPM 120/64	63	130	1,5	1 ~ 230	13	1¼ × 1	19,5
2CPM 200/55	54	215	1,5	1 ~ 230	13	1¼ × 1	24,5
2CPM 300/55	55	250	2,2	3 ~ 230 / 3 ~ 400	10 / 6,1	1½ × 1	25,5
2CPM 300/67	67	280	2,2	3 ~ 230 / 3 ~ 400	13,8 / 8	1½ × 1	26
2CPM 300/77	76	300	3,7	3 ~ 230 / 3 ~ 400	13,8 / 8	1½ × 1	34,5

COLP



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Submersible pumps designed for pumping coolant.
Thanks to the extended shaft design, the pumps are suitable
for pumping liquids, coolant and oils that could have a detrimental
effect on the motor seal in classic pumps.
The pump impeller and shaft are made of stainless steel.

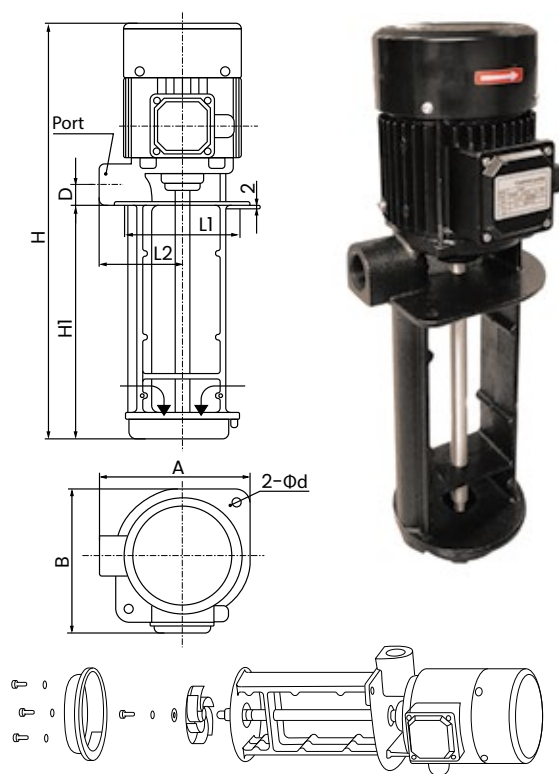
APPLICATION:

Pumping coolant, cutting emulsions, oils in machine tools
and any machine that requires forcing coolant circulation.

TECHNICAL SPECIFICATIONS:

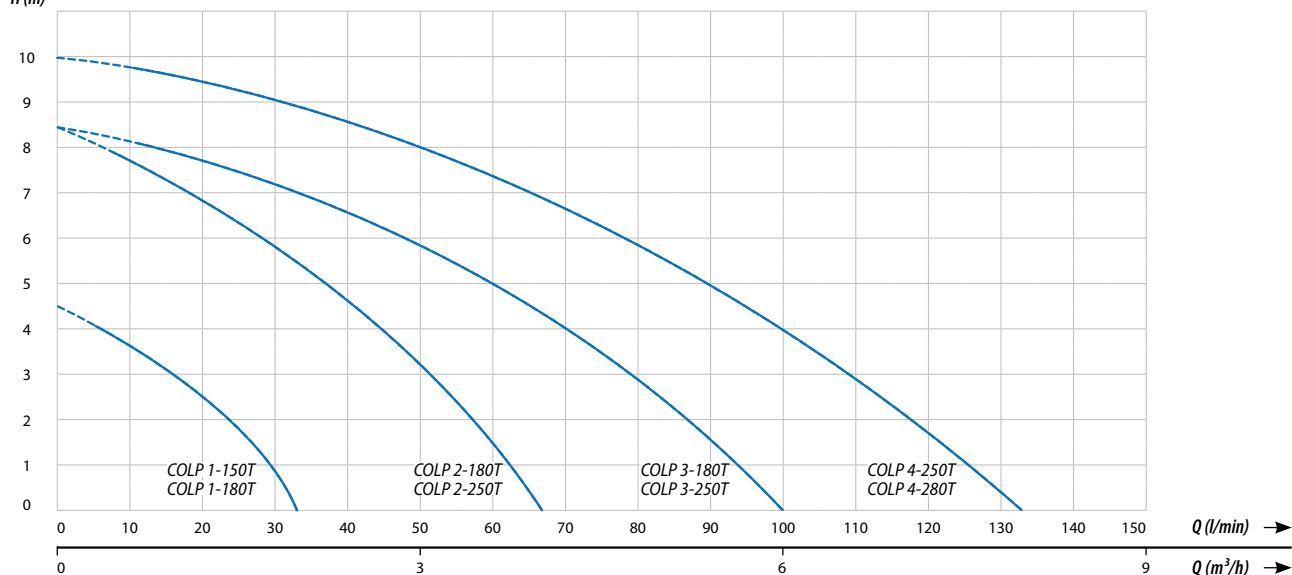
- Liquid temperature: 0–90°C
- Max. ambient temperature: 50°C
- Max. viscosity: 150 mm² s⁻¹
- Max. system pressure: 0,3 MPa
- Max. diameter of impurities: 0,5 mm

Dimensions (mm)							
A	B	D	ø L1	L2	H	H1	ø d
139	161	20	90	70	369	153	8
139	161	20	90	70	399	183	8
150	162	20	115	80	398	182	10
150	162	20	115	80	468	252	10
178	172	26,5	135	98	398	180	10
178	172	26,5	135	98	468	250	10
178	172	26,5	135	98	468	250	10
178	172	26,5	135	98	498	280	10



↑ Head / Flow

H (m)



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Port
COLP 1-150T	4,5	33	60	400	0,3	G ½
COLP 1-180T	4,5	33	60	400	0,3	G ½
COLP 2-180T	8,5	67	100	400	0,4	G ½
COLP 2-250T	8,5	67	100	400	0,4	G ½
COLP 3-180T	8,5	100	150	400	0,5	G ¾
COLP 3-250T	8,5	100	150	400	0,5	G ¾
COLP 4-250T	10	133	250	400	0,7	G 1
COLP 4-280T	10	133	250	400	0,7	G 1

MCI



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A group of multistage, normally suction centrifugal pumps, characterized by the highest quality workmanship. MCI pumps are robust devices with a very wide range of applications, from small domestic systems to continuous operation in large industrial systems. The hydraulics – entirely made of AISI 304 stainless steel (DIN 1.4301) – and a reinforced mechanical seal, allow use in liquids up to 70°C. MCI group pumps have flows ranging from 3 m³ to 30 m³ per hour, making them highly versatile in use.

MAIN FEATURES OF MCI PUMPS:

- High reliability
- Wide range of flows
- Low noise
- High hydraulic efficiency
- Thermal protection for motor 1 ~

APPLICATION:

Households:

- Water supply
- Watering (including sprinkler operation)
- Pressure boosting
- Rainwater management

Industry:

- Pressure washers
- Air conditioning systems
- Refrigeration: refrigerant pumping
- Heating systems: hot water and glycol pumping
- Maintaining pressure in livestock buildings
- Systems to increase humidity and temperature
- Pressure boosting in civil engineering systems
- Pumping moderately viscous liquids with low aggressiveness
- Food industry: in washing and cleaning machines, to transport food liquids
- Industrial laundries
- Water treatment units
- Desalination systems
- Distillation systems
- Chemical industry
- Pharmaceutical industry
- Process water systems



Public facilities:

- Pressure boosting and transferring potable water
- Purification systems
- Swimming pools

Agriculture:

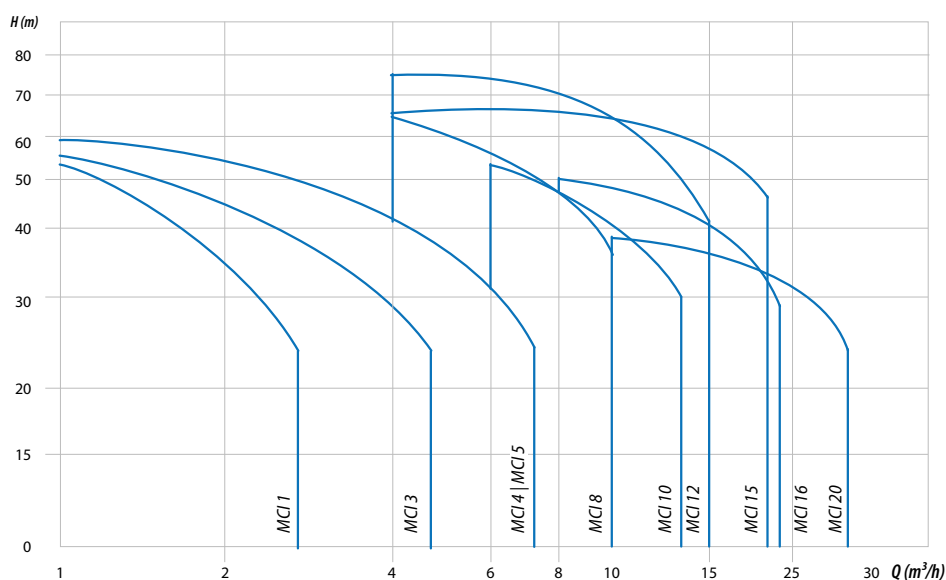
- Irrigation
- Fertilizer pressing and dosing
- Maintaining pressure in livestock buildings

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
-
- Insulation grade: F
- Ingress protection: IP55
- Max. system pressure: 8 bar

MATERIALS:

- Body: AISI 304 stainless steel
- Shaft: AISI 304 stainless steel
- Mechanical seal: SiC / SiC / EPDM
- Ports: AISI 304 stainless steel



MCI cont.

Model	Power (kW / Hp)	Flow (l/min)	7	10	14	17	20	24	27	30	34	37	40
		(m³/h)	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8	2	2,2	2,4
MCI 1-2	0,25 / 0,3	H (m)	19,5	19	18,5	18	17,5	17	16	15	14	13	12
MCI 1-3	0,25 / 0,3		29	28,5	26	25	24,5	23,5	22	21	19	17	16
MCI 1-4	0,37 / 0,5		37	36	35	33	32	30	28	27	26	22	20
MCI 1-5	0,37 / 0,5		43	42	41	38	36	34	32	29	27	25	22
MCI 1-6	0,37 / 0,5		51	50	49	46	44	45	40	36	32	30	26
MCI 1-7	0,55 / 0,75		60	58	56	53	51	49	45	42	38	34	30

Model	Power (kW / Hp)	Flow (l/min)	14	20	27	33	40	47	50	53	60	67
		(m³/h)	0,8	1,2	1,6	2	2,4	2,8	3	3,2	3,6	4
MCI 3-2	0,25 / 0,3	H (m)	19,5	19	18,5	18	17	16,5	15	14,5	13,5	12
MCI 3-3	0,37 / 0,3		27	26	25	24	23	22	21	20	17	15
MCI 3-4	0,55 / 0,5		36	35	34	32	31	29	28	27	23	20
MCI 3-5	0,55 / 0,5		44	43	42	40	38	36	34	33	28,5	24
MCI 3-6	0,75 / 0,5		53	51,5	49	47	44	41	38	37	32	27
MCI 3-7	1 / 1,35		63	61	59	56	54	51	49	47	41	35

Model	Power (kW / Hp)	Flow (l/min)	17	25	33	41	50	58	67	75	83	91	100
		(m³/h)	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6
MCI 5-2	0,37 / 0,5	H (m)	18,5	18	17,5	17	16	15,5	15	13,5	13	11	10
MCI 5-3	0,55 / 0,75		29	28,5	28	27	26,5	25,5	25	23	22	20	18
MCI 5-4	0,75 / 1		38	37	36	34	35,5	32	30	28	27	24	20
MCI 5-5	1 / 1,35		47	46	45	44	42,5	41	40	36	35	32	27
MCI 4-6 MCI 5-6	1,3 / 1,7		56,5	55	54	53	52,5	51	49	45	44	42	36
MCI 4-7 MCI 5-7	1,5 / 2		67	65	64	61	59	57	55	51	49	44	38

Model	Power (kW / Hp)	Flow (l/min)	67	83	100	117	134	150	167
		(m³/h)	4	5	6	7	8	9	10
MCI 8-10	0,55 / 0,75	H (m)	15	14	13	12,5	10	9	8
MCI 8-15	0,75 / 1		25	23	22	21	17	14	12
MCI 8-20	1 / 1,35		32	29	27	25	20	21	17
MCI 8-25	1,5 / 2		43	40	38	34	30	25	20
MCI 8-30	1,85 / 2,5		50	46	44	40	32	30	26
MCI 8-35	2,2 / 3		56	51	48	55	42	35	28
MCI 8-40	2,2 / 3		65	57,5	57	50	43	42	34

Model	Power (kW / Hp)	Flow (l/min)	67	84	100	117	134	150	167	184	200	217	234
		(m³/h)	4	5	6	7	8	9	10	11	12	13	14
MCI 10-1	0,75 / 1	H (m)	14,5	14	13,5	13	12,5	12	11	10	9	8	7
MCI 10-2	1,25 / 1,75		30	29,5	29	28	27	26	24	23	21	19	16
MCI 10-3	2,2 / 3		45,5	45	44	43	42	40	38	36	33	30	26
MCI 10-4	3 / 4		61	60,5	60	58	56	54	52	48	45	41	36
MCI 10-5	3 / 4		76,5	76	75	74	71	68	63	61	57	52	46

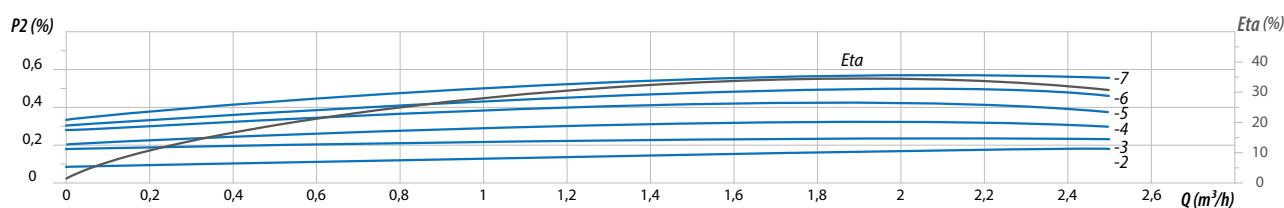
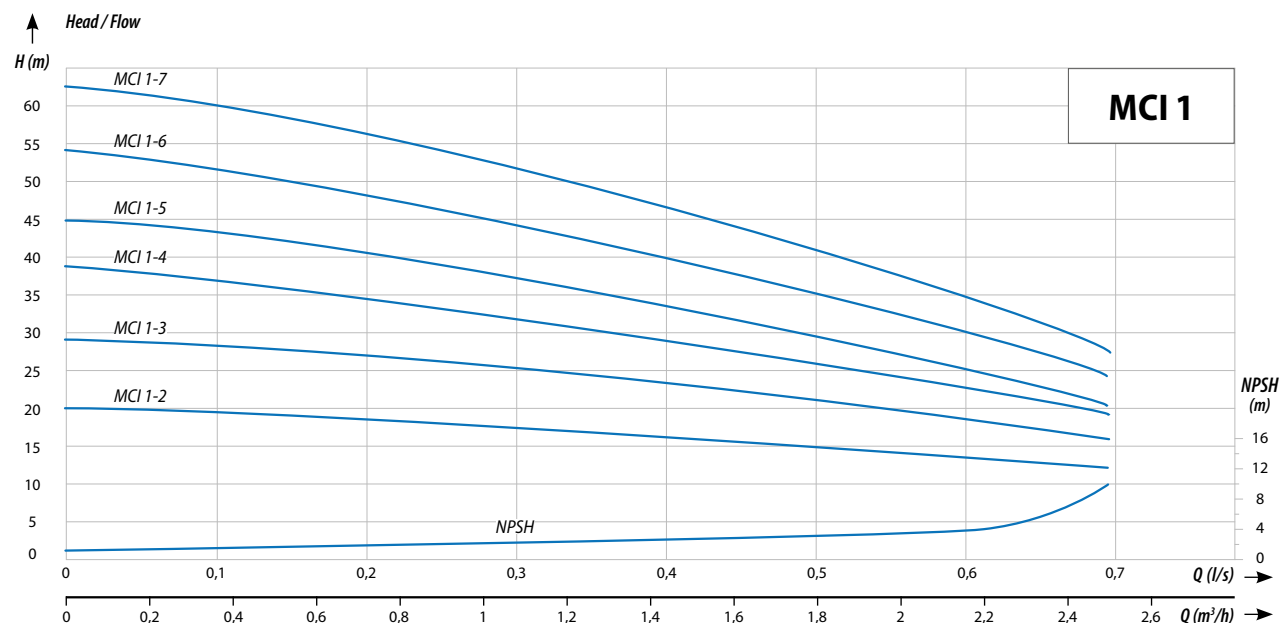
Model	Power (kW / Hp)	Flow (l/min)	100	117	134	150	167	184	200	217	234
		(m³/h)	6	7	8	9	10	11	12	13	14
MCI 12-10	1 / 1,35	H (m)	19	18	17,5	16	15,5	14	13,5	12	10,5
MCI 12-15	1,5 / 2		28	27	26	25	24	22	19	18	15
MCI 12-20	1,85 / 2,5		34	36	32	32	29	29	26	24	22
MCI 12-25	2,2 / 3		47	45	43	41,5	39	36	32	30,5	27
MCI 12-30	3 / 4		52,5	52	49	47,5	45	42	40	35	30,5

Model	Power (kW / Hp)	Flow (l/min)	134	167	200	234	267	300	334	367	400
		(m³/h)	8	10	12	14	16	18	20	22	24
MCI 16-10	1 / 1,35	H (m)	12	11,5	11	10,5	10	9	8	7	6
MCI 16-20	1,5 / 2		24	23	22	21	20	19	16	14	12
MCI 16-30	2,2 / 3		38	36	34	33	30	28	26	23	20
MCI 16-40	3 / 4		50	48	46	44	40	38	36	32	28

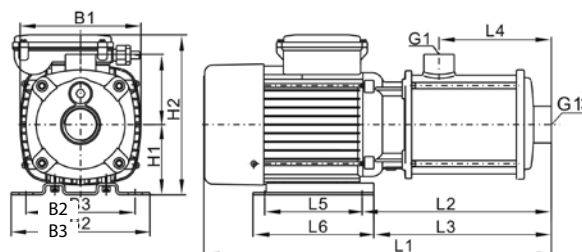
Model	Power (kW / Hp)	Flow (l/min)	167	200	234	267	300	334	367	400	434	467
		(m³/h)	10	12	14	16	18	20	22	24	26	28
MCI 20-10	1 / 1,35	H (m)	13	12,5	12	11,5	11	8	10	9	8,5	7,5
MCI 20-20	1,85 / 2,5		25	24	23	22	21	18	18	16	14	12
MCI 20-30	3 / 4		39	38	36	35	33	28	30	27	24	21
MCI 20-40	4 / 5,5		52	50	48	47	44	42	39	35	31	27

Model	Power (kW / Hp)	Flow (l/min)	134	167	200	234	267	300	334	367	400	434	467
		(m³/h)	8	10	12	14	16	18	20	22	24	26	28
MCI 30-1	2,2 / 3	H (m)	15,5	15	15	14,5	14	13,5	13	12	11,5	11	10
MCI 30-2	4 / 5,5		33	32,5	32	31,5	31	30,5	30	28	27	26	24
MCI 30-3	5,5 / 7,5		50	50	50	49	48	47	46	45	43	41	38
MCI 30-4	7,5 / 10		66	66	66	66	66	65	64	62	58	56	52

MCI 1



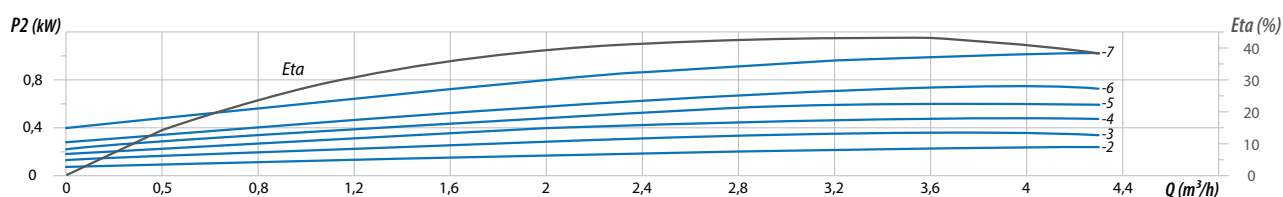
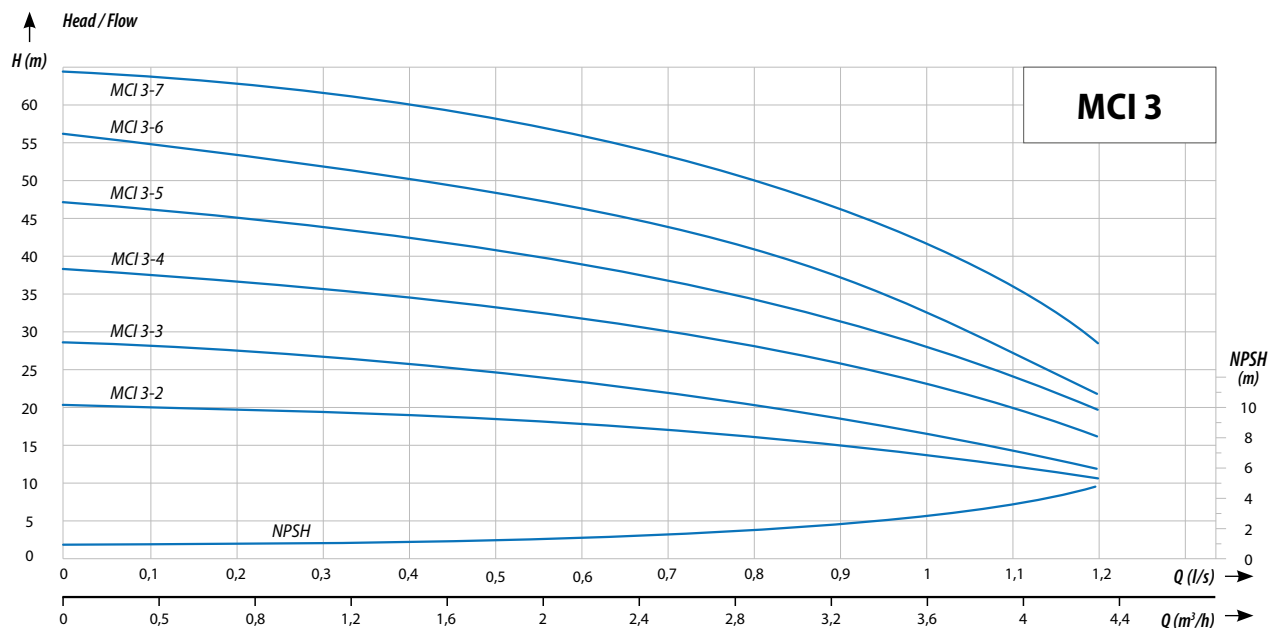
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L3	L4
MCI 1-2	158	125	75	170	318	131	113	72
MCI 1-3	158	125	75	170	318	131	113	72
MCI 1-4	158	125	75	170	336	149	131	90
MCI 1-5	158	125	75	170	354	167	149	108
MCI 1-6	158	125	75	170	390	203	185	144
MCI 1-7	158	125	75	170	390	203	185	144



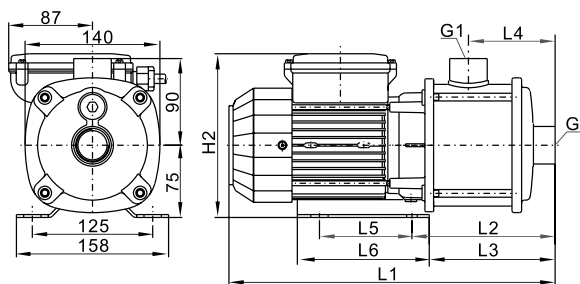
Model	Power (kW)	Flow (m³/h)	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8	2	2,2	2,4
MCI 1-2	0,25	H (m)	19,5	19	18,5	18	17,5	17	16	15	14	13	12
MCI 1-3	0,25		29	28,5	26	25	24,5	23,5	22	21	19	17	16
MCI 1-4	0,37		37	36	35	33	32	30	28	27	26	22	20
MCI 1-5	0,37		43	42	41	38	36	34	32	29	27	25	22
MCI 1-6	0,37		51	50	49	46	44	42	40	36	32	30	26
MCI 1-7	0,55		60	58	56	53	51	49	45	42	38	34	30

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 1-2	20	50	250	230	1,6	1 × 1	7,5
MCI 1-3	29	50	250	230	1,6	1 × 1	8
MCI 1-4	38,5	50	370	230	2,4	1 × 1	8,5
MCI 1-5	45	50	370	230	2,4	1 × 1	8,5
MCI 1-6	54	50	370	230	2,4	1 × 1	9
MCI 1-7	63	50	550	230	3,8	1 × 1	10

MCI 3



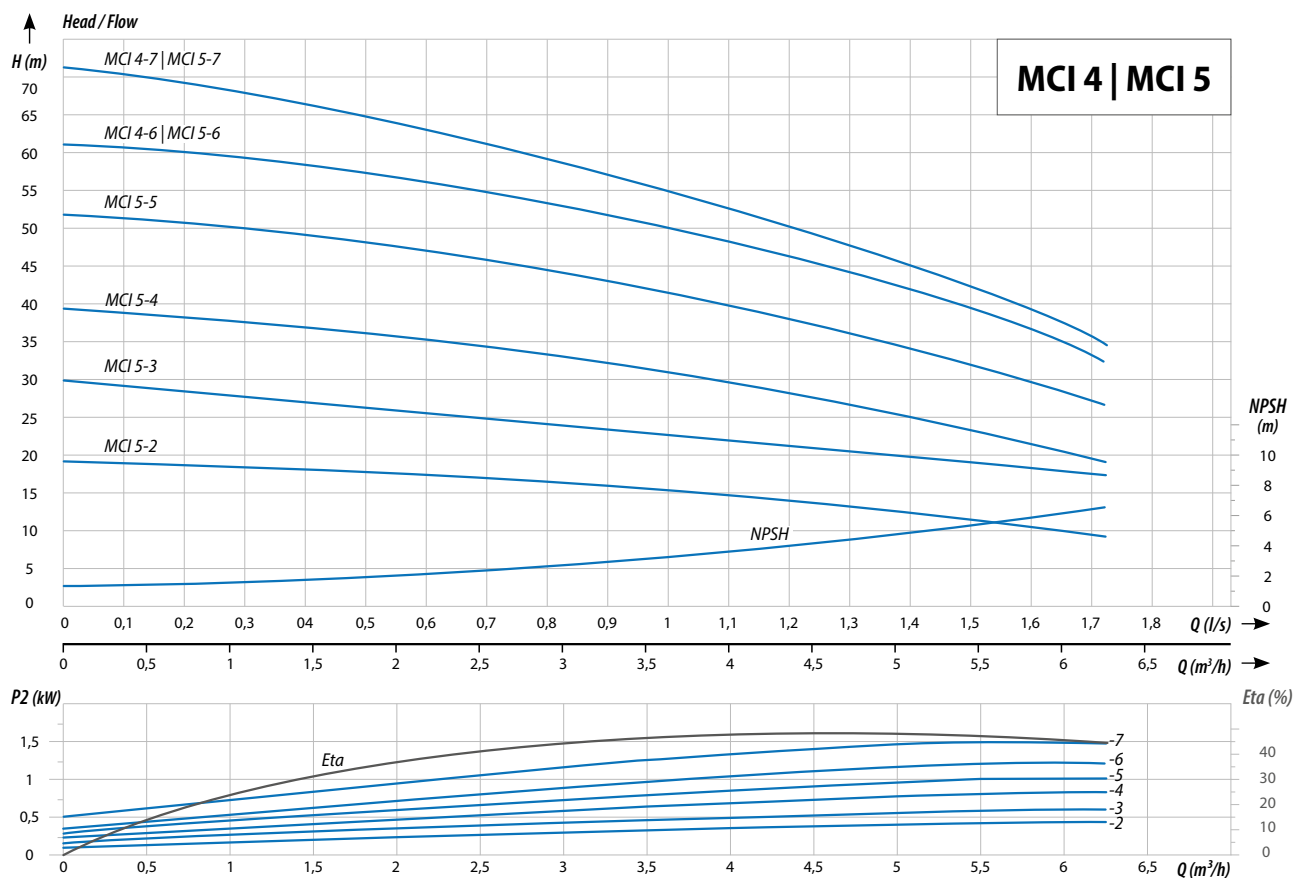
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 3-2	158	125	75	170	318	131	72	96
MCI 3-3	158	125	75	170	318	131	72	96
MCI 3-4	158	125	75	170	336	149	90	96
MCI 3-5	158	125	75	170	383	167	108	96
MCI 3-6	158	125	75	170	416	203	144	96
MCI 3-7	158	125	75	170	416	203	144	96



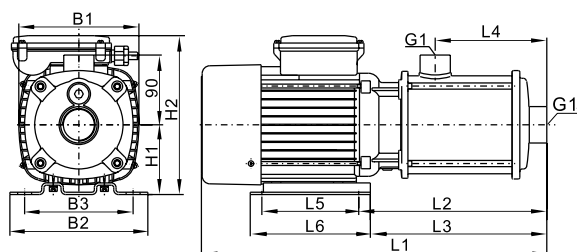
Model	Power (kW)	Flow (m³/h)	0,8	1,2	1,6	2	2,4	2,8	3,2	3,6	4
MCI 3-2	0,25	H (m)	19,5	19	18,5	18	17	16,5	14,5	13,5	12
MCI 3-3	0,37		27	26	25	24	23	22	20	17	15
MCI 3-4	0,55		36	35	34	32	31	29	27	23	20
MCI 3-5	0,55		44	43	42	40	38	36	33	28,5	24
MCI 3-6	0,75		53	51,5	49	47	44	41	37	32	27
MCI 3-7	1		63	61	59	56	54	51	47	41	35

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 3-2	21	85	250	230	1,6	1 × 1	7,5
MCI 3-3	29	85	370	230	2,4	1 × 1	7,5
MCI 3-4	38	85	550	230	3,8	1 × 1	10
MCI 3-5	47,5	85	550	230	3,8	1 × 1	10,5
MCI 3-6	56,5	85	750	230	5,2	1 × 1	12
MCI 3-7	67	85	1000	230	6,2	1 × 1	13

MCI 4 | MCI 5



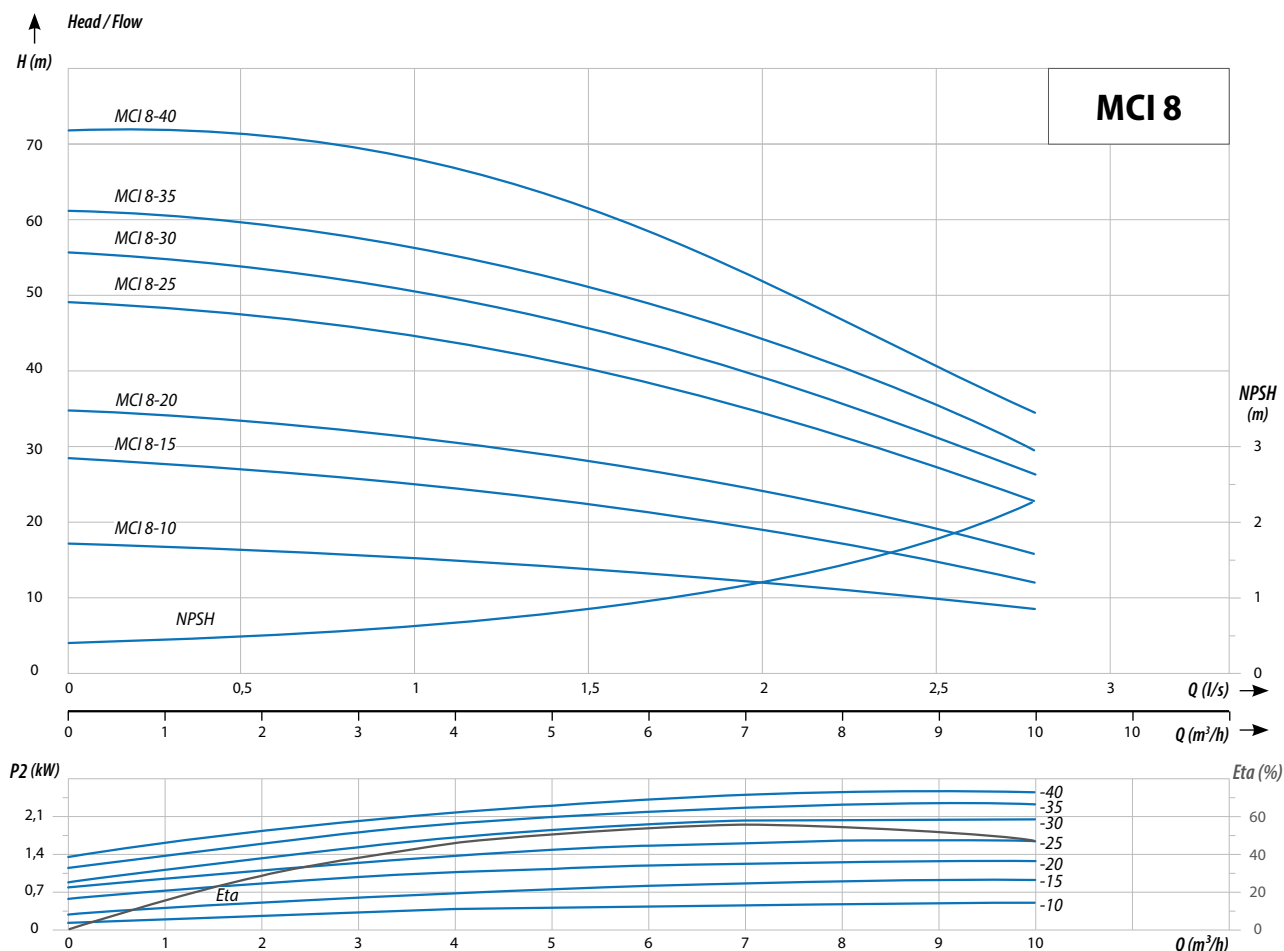
Model	Dimensions (mm)				
	L1	L2	L3	L4	L5
MCI 5-2	314	127	109	136	68
MCI 5-3	314	127	109	136	68
MCI 5-4	360	145	121	155	104
MCI 5-5	378	163	139	155	104
MCI 4-6 MCI 5-6	414	199	175	155	140
MCI 4-7 MCI 5-7	414	199	175	155	140



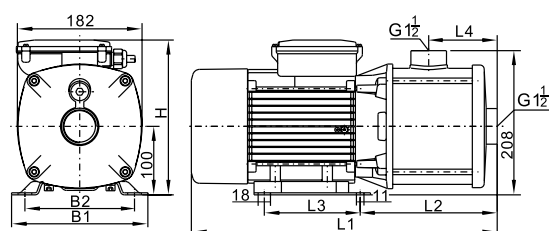
Model	Power (kW)	Flow (m³/h)	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	6
MCI 5-2	0,37	H (m)	18,5	18	17,5	17	16	15,5	15	13,5	13	11	10
MCI 5-3	0,55		29	28,5	28	27	26,5	25,5	25	23	19,5	20	18
MCI 5-4	0,75		38	37	36	34	33,5	32	30	28	27	24	20
MCI 5-5	0,75		47	46	45	44	42,5	41	40	36	32	32	27
MCI 4-6 MCI 5-6	1		56,5	55	54	53	52,5	51	49	45	39,5	42	36
MCI 4-7 MCI 5-7	1,1		67	65	64	61	59	57	55	51	45,5	44	38

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 5-2	19,5	130	370	230	2,4	1¼ × 1	8
MCI 5-3	30	130	550	230	3,8	1¼ × 1	8
MCI 5-4	39,5	130	750	230	5,2	1¼ × 1	9
MCI 5-5	50,5	130	750	230	5,2	1¼ × 1	10,5
MCI 4-6 MCI 5-6	61	130	1000	230	6,2	1¼ × 1	12,5
MCI 4-7 MCI 5-7	71	130	1100	230	7	1¼ × 1	13

MCI 8



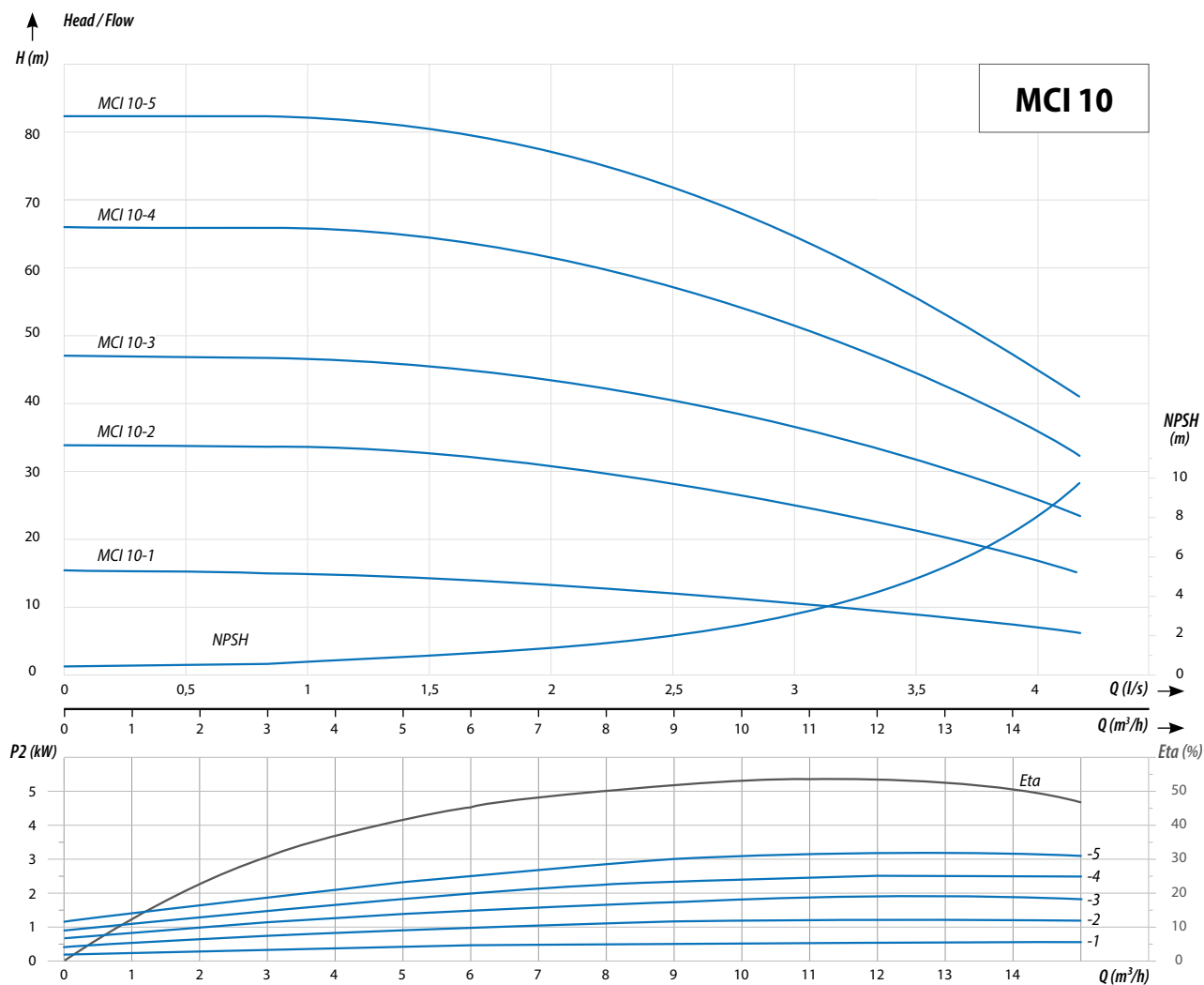
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 8-10	158	125	100	206	377	185	100	96
MCI 8-15	158	125	100	206	377	185	100	96
MCI 8-20	158	125	100	206	377	185	100	96
MCI 8-25	158	125	100	232	408	200	100	96
MCI 8-30	199	160	100	244	449	200	100	140
MCI 8-35	199	160	100	244	479	230	130	140
MCI 8-40	199	160	100	244	479	230	130	140



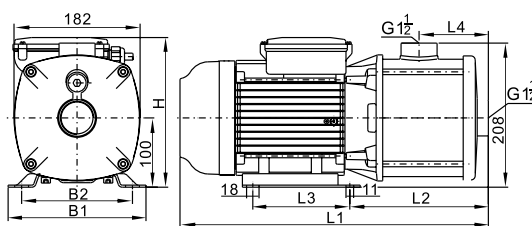
Model	Power (kW)	Flow (m³/h)	4	5	6	7	8	9	10
MCI 8-10	0,55	H (m)	15	14	13	12,5	10	9	8
MCI 8-15	0,75		25	23	22	21	17	14	12
MCI 8-20	1		32	29	27	25	20	21	17
MCI 8-25	1,5		43	40	38	34	30	25	20
MCI 8-30	1,85		50	46	44	40	32	30	26
MCI 8-35	2,2		56	51	48	44	42	35	28
MCI 8-40	2,2		65	57,5	57	50	45	42	34

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 8-10	4	200	550	230	3,8	1½ × 1½	10
MCI 8-15	17,5	200	750	230	5,2	1½ × 1½	11
MCI 8-20	35	200	1000	230	6,2	1½ × 1½	13
MCI 8-25	34,5	200	1500	230	9,2	1½ × 1½	16
MCI 8-30	54	200	1850	230	13	1½ × 1½	21
MCI 8-35	62	200	2200	230	14	1½ × 1½	22
MCI 8-40	72	200	2200	230	14	1½ × 1½	23

MCI 10



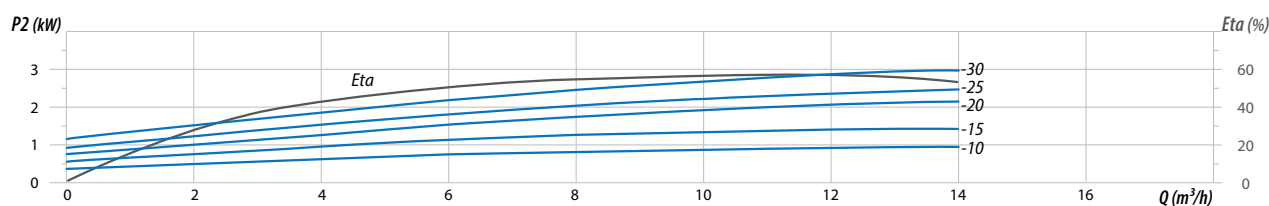
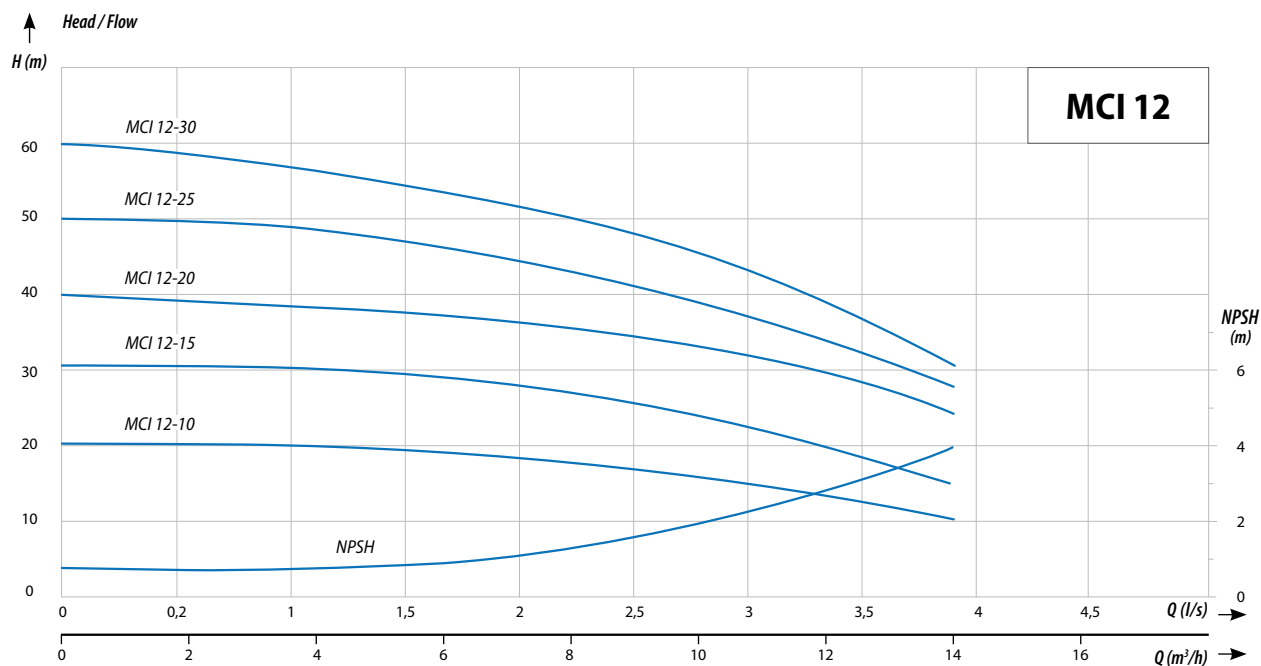
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 10-1	158	125	100	206	383	185	100	96
MCI 10-2	158	125	100	214	412	200	100	96
MCI 10-3	199	160	100	244	448	200	100	140
MCI 10-4	199	160	100	212	498	230	130	140
MCI 10-5	199	160	100	212	558	290	190	140



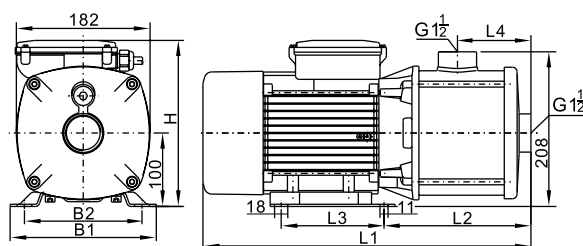
Model	Power (kW)	Flow (m³/h)	4	5	6	7	8	9	10	11	12	13	14
MCI 10-1	0,75	H (m)	14,5	14	13,5	13	12,5	12	11	10	9	8	7
MCI 10-2	1,2		30	29,5	29	28	27	26	24	23	21	19	16
MCI 10-3	2,2		45,5	45	44	43	42	40	38	36	33	30	26
MCI 10-4	3		61	60,5	60	58	56	54	52	48	45	41	36
MCI 10-5	3		76,5	76	75	74	71	68	63	61	57	52	46

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 10-1	15,5	300	650	230	4,4	1½ × 1½	10
MCI 10-2	34	300	1200	230	7,7	1½ × 1½	12
MCI 10-3	46,5	300	2200	230	14	1½ × 1½	22
MCI 10-4	66	300	3000	400	6	1½ × 1½	25
MCI 10-5	82	300	3000	400	6	1½ × 1½	26

MCI 12



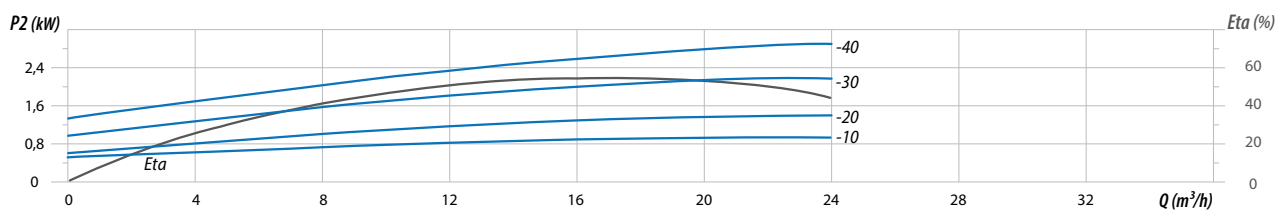
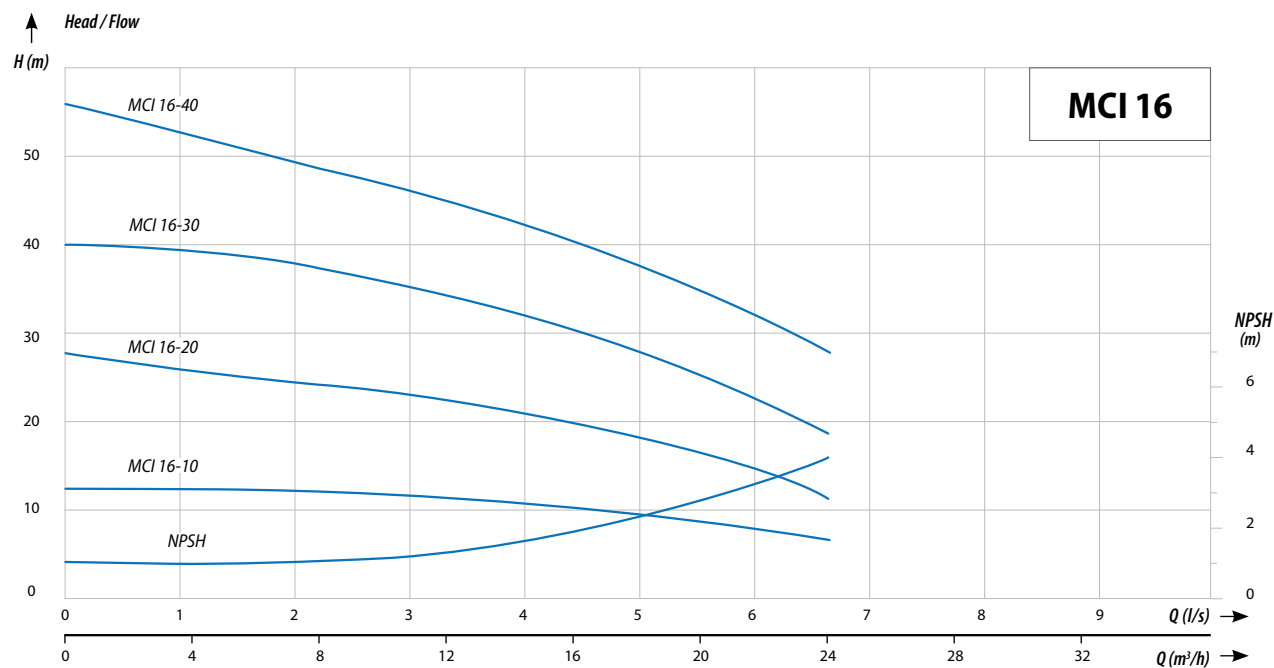
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 12-10	158	125	100	206	377	185	100	96
MCI 12-15	158	125	100	232	408	200	100	96
MCI 12-20	158	160	100	244	449	200	100	140
MCI 12-25	158	125	100	212	409	200	100	96
MCI 12-30	199	160	100	212	469	200	100	140



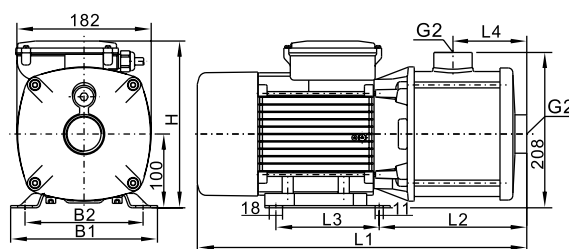
Model	Power (kW)	Flow (m³/h)	6	7	8	9	10	11	12	13	14
MCI 12-10	1	H (m)	19	18	17,5	16	15,5	14	13,5	12	10,5
MCI 12-15	1,5		28	27	26	25	24	22	19	18	15
MCI 12-20	1,85		34	36	32	32	29	29	26	24	22
MCI 12-25	2,2		47	45	43	41,5	39	36	32	30,5	27
MCI 12-30	3		52,5	52	49	47,5	45	42	40	35	35,5

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 12-10	20	285	1000	230	6,2	1½ × 1½	11
MCI 12-15	31	285	1500	230	9,2	1½ × 1½	13
MCI 12-20	40	285	1850	400	4,1	1½ × 1½	20
MCI 12-25	50	285	2200	400	4,9	1½ × 1½	23
MCI 12-30	60	285	3000	400	6,3	1½ × 1½	26

MCI 16



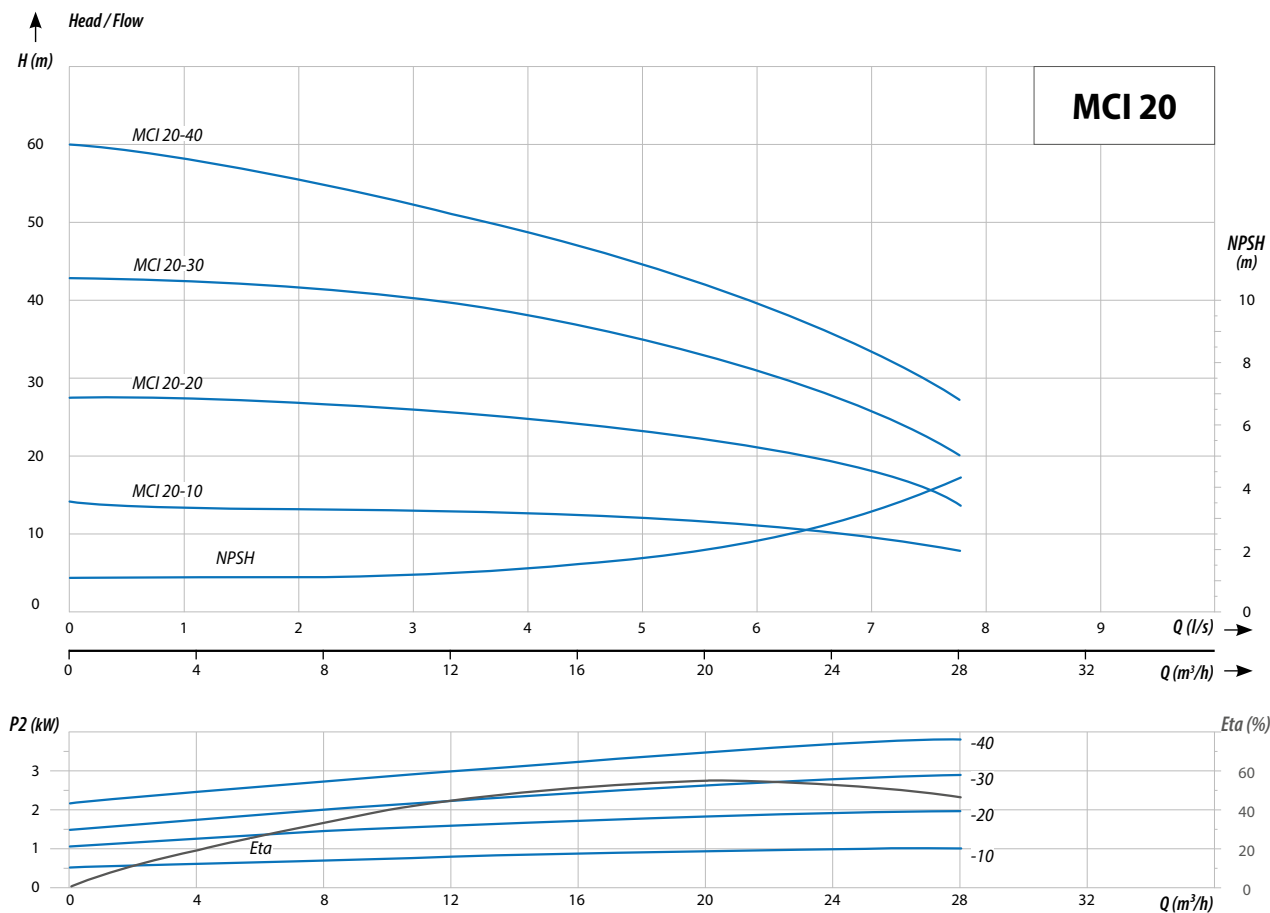
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 16-10	158	125	100	212	408	215	130	96
MCI 16-20	158	125	100	217	439	230	130	96
MCI 16-30	199	160	100	212	580	230	130	140
MCI 16-40	199	160	100	212	545	275	175	140



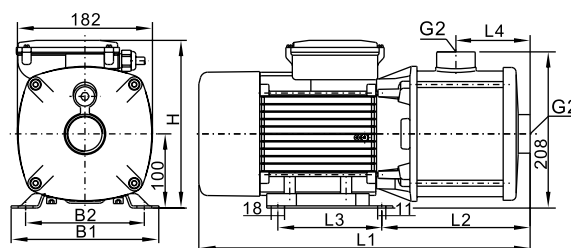
Model	Power (kW)	Flow (m³/h)	4	5	6	7	8	9	10	11	12	13	14
MCI 16-10	1	H (m)	14,5	14	13,5	13	12,5	12	11	10	9	8	7
MCI 16-20	1,5		30	29,5	29	28	27	26	24	23	21	19	16
MCI 16-30	2,2		45,5	45	44	43	42	40	38	36	33	30	26
MCI 16-40	3		61	60,5	60	58	56	54	52	48	45	41	36

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 16-10	12,5	450	1000	400	2,4	2 × 2	13
MCI 16-20	28	450	1500	230 / 400	9,2 / 3,3	2 × 2	16
MCI 16-30	40	450	2200	230 / 400	14 / 4,9	2 × 2	22
MCI 16-40	56	450	3000	400	6	2 × 2	24

MCI 20



Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 20-10	158	125	100	212	408	215	130	96
MCI 20-20	158	125	100	217	439	230	130	96
MCI 20-30	199	160	100	212	500	230	130	140
MCI 20-40	199	160	100	252	561	297	175	140



Model	Power (kW)	Flow (m³/h)	10	12	14	16	18	20	22	24	26	28
MCI 20-10	1	H (m)	13	12,5	12	11,5	11	10	10	9	8,5	7,5
MCI 20-20	1,85		25	24	23	22	21	18	18	16	14	12
MCI 20-30	3		39	38	36	35	33	28	30	27	24	21
MCI 20-40	4		52	50	48	47	44	42	39	35	31	27

Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
MCI 20-10	14	500	1000	400	2,3	2 × 2	13
MCI 20-20	28	500	1850	230	13	2 × 2	22
MCI 20-30	43	500	3000	400	6	2 × 2	24
MCI 20-40	60	500	4000	400	5,3	2 × 2	32,5

VMH



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The pumps are designed for use in hydrophore systems in civil engineering, industry and agriculture. They can pump clean water or other non-corrosive, water-like, non-flammable and non-explosive liquids. The small form factor allows the pump to be integrated into various machines that require high-pressure water supply. The rugged hydraulic part, mechanical seal and thrust bearing with high temperature resistance allow pumping of liquids up to 70°C, as well as use in high-pressure systems.

APPLICATION:

Industry:

- Air conditioning systems
- Cooling system
- Heating systems
- Industrial washers
- Firefighting systems
- Water treatment (purification)
- Pressure boosting in civil engineering systems
- Aquariums

Households:

- Water supply
- Watering (including sprinkler operation)

Agriculture:

- Irrigation
- Maintaining pressure in livestock buildings

TECHNICAL SPECIFICATIONS:

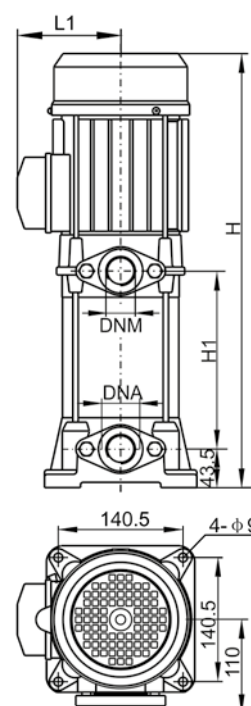
- Liquid temperature: 0–70°C
- Max. ambient temperature: 50°C
- Insulation class: F
- Ingress protection: IP55
- Max. system pressure: 1,5 MPa
- Three-phase pumps have the option of connecting the motor in star (3 ~ 400 V) or delta (3 ~ 230 V) arrangement.
- Single-phase motors have thermal protection integrated into the winding

MATERIALS:

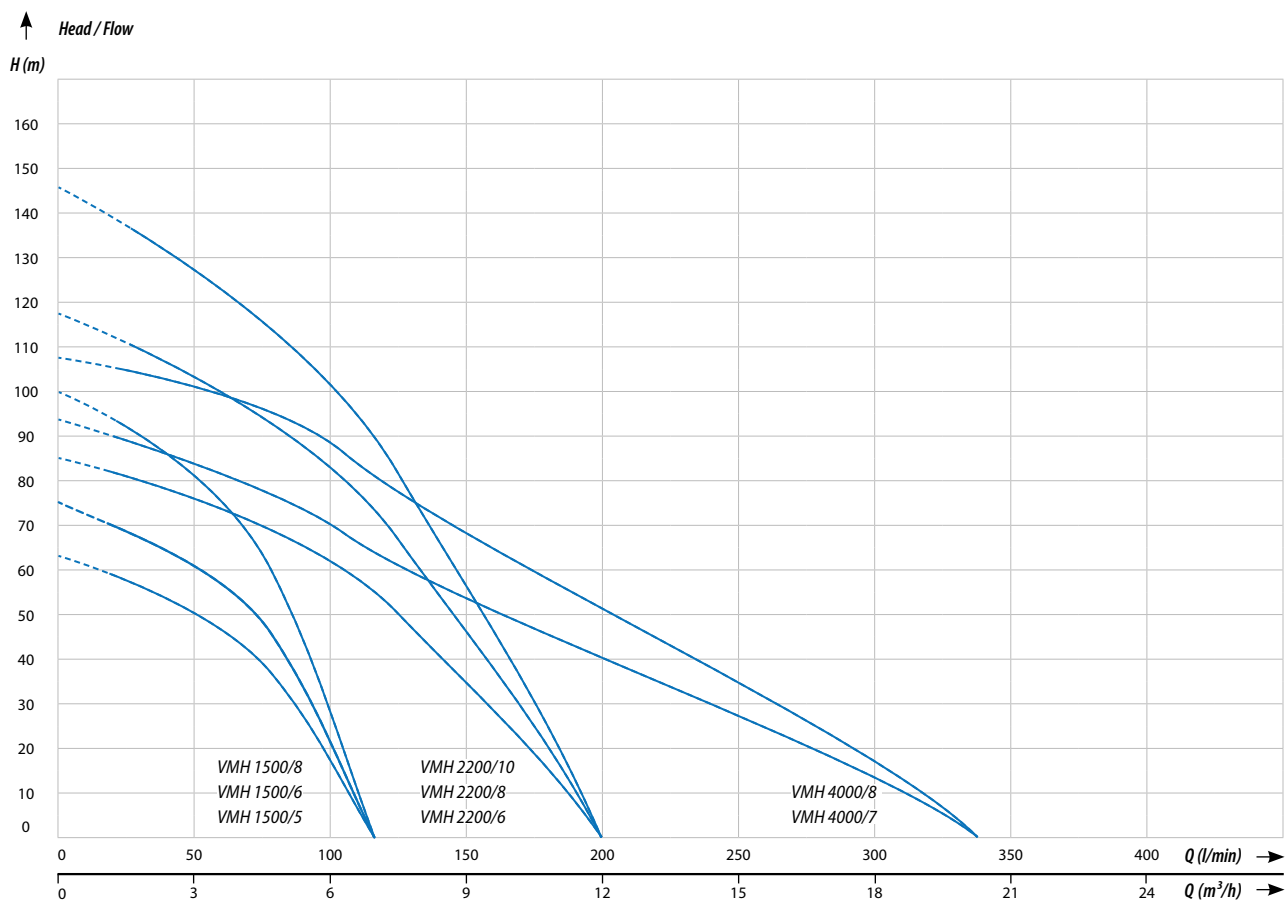
- Motor: asynchronous, squirrel cage, closed structure, aluminium housing, external ventilation
- Shaft: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Impeller: polymer PPO with increased fibre content in polymer / AISI 304 stainless steel
- Ports: grey cast iron
- Mechanical seal: graphite / silicon carbide / NBR



Model	Dimensions (mm)		
	L1	H	H1
VMH 1500/5	140	500	201
VMH 1500/6	140	510	225
VMH 1500/8	140	675	273
VMH 2200/6	116	630	239
VMH 2200/8	142	740	288
VMH 2200/10	142	790	337
VMH 4000/7	148	810	350
VMH 4000/8	148	850	410



VMH cont.



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Ports (inches)	Weight (kg)
VMH 1500/5	63	117	1500	230	9,2	1 × 1	22
VMH 1500/6	75	117	1500	230	9,2	1 × 1	22
VMH 1500/8	100	117	2200	230	14	1 × 1	28,5
VMH 2200/6	85	200	2200	230	14	1½ × 1¼	29
VMH 2200/8	118	200	3000	400	6	1½ × 1¼	36
VMH 2200/10	145	200	4000	400	9,2	1½ × 1¼	39
VMH 4000/7	94	333	4000	400	7,8	1½ × 1¼	37
VMH 4000/8	108	333	4700	400	9,2	1½ × 1¼	39



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CVI INOX

Vertical, multi-stage, stainless steel centrifugal pumps with in-line port arrangement

The CVI INOX series, featuring high flow, low noise and reliable sealing, is designed for a wide range of applications. Ideal for pumping non-chemically aggressive clean liquids.

CVI INOX pumps in the water contact part are made entirely of stainless steel. The pump is available with IE-3 efficiency motors.

APPLICATION:

Potable and domestic water supply systems:

- Waterworks
- Pump rooms
- Hydrophore sets and systems
- Pressure boosting in civil engineering systems
- Water treatment units

Industry:

- Industrial cleaning systems: washing/rinsing systems
- High-pressure circulating systems
- Boiler room supply
- Air conditioning systems
- Refrigeration systems
- Fire protection systems
- Lubrication systems for machines
- Water supply in high-rise buildings
- Transfer of oil, glycol and coolant
- Irrigation of golf courts
- Maintaining pressure in livestock buildings

Agriculture:

- Irrigation systems
- Sprinkling machines
- Fish farms

Services:

- Laundries
- Car washes

TECHNICAL SPECIFICATIONS:

- Liquid temperature: -20–90°C (104°C – on special request)
- Max. ambient temperature: 40°C
- Insulation grade: F
- Ingress protection: IP55
- Flow: 0,7–120 m³/h
- Max. pressure: 32 bar
- Flow range: 0,4–120 m³/h
- Range of pH values: pH₃ ~9
- Three-phase, two-pole motor, asynchronous with squirrel cage impeller

MATERIALS:

- Impellers: AISI 304 stainless steel (DIN 1.4301)
- Diffusers: AISI 304 stainless steel (DIN 1.4301)
- Pump shaft: stainless steel (DIN 1.4057)
- Pump housing – AISI 304 stainless steel (DIN 1.4301)
- Suction / discharge body of the pump – AISI 304 pressed sheet (DIN 1.4301)
- Packed mechanical seal for 10–90°C basic versions: silicon carbide / tungsten carbide / EPDM

FREQUENCY OF STARTS AND STOPS:

- Motor up to and including 4 kW: 100/h max.
- Motors of 5,5 kW and above: 20/h max.



Motor (kW)	50 Hz/ LpA (dB (A))
0,37	53
0,55	53
0,75	53
1,1	55
1,5	58
2,2	58
3	59
4	66
5,5	73
7,5	73
11	75
15	70
18,5	70
22	69
30	73
37	73
45	73

CVI INOX cont.

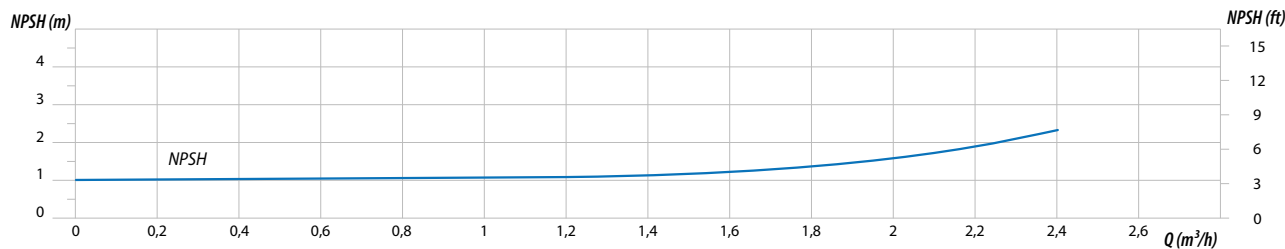
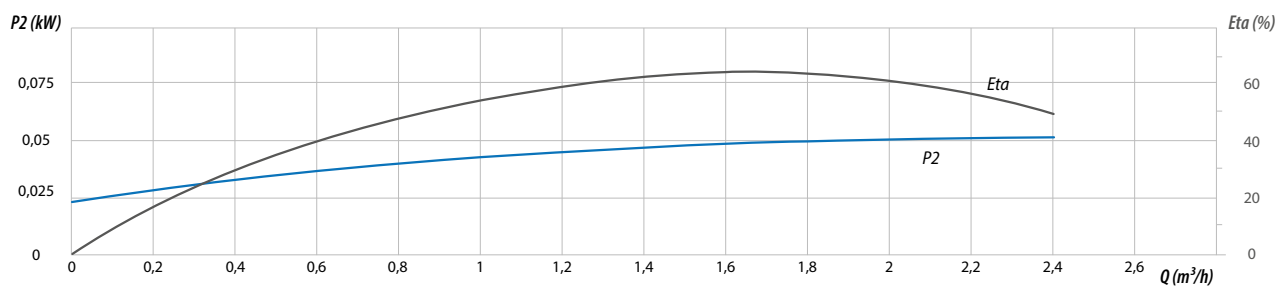
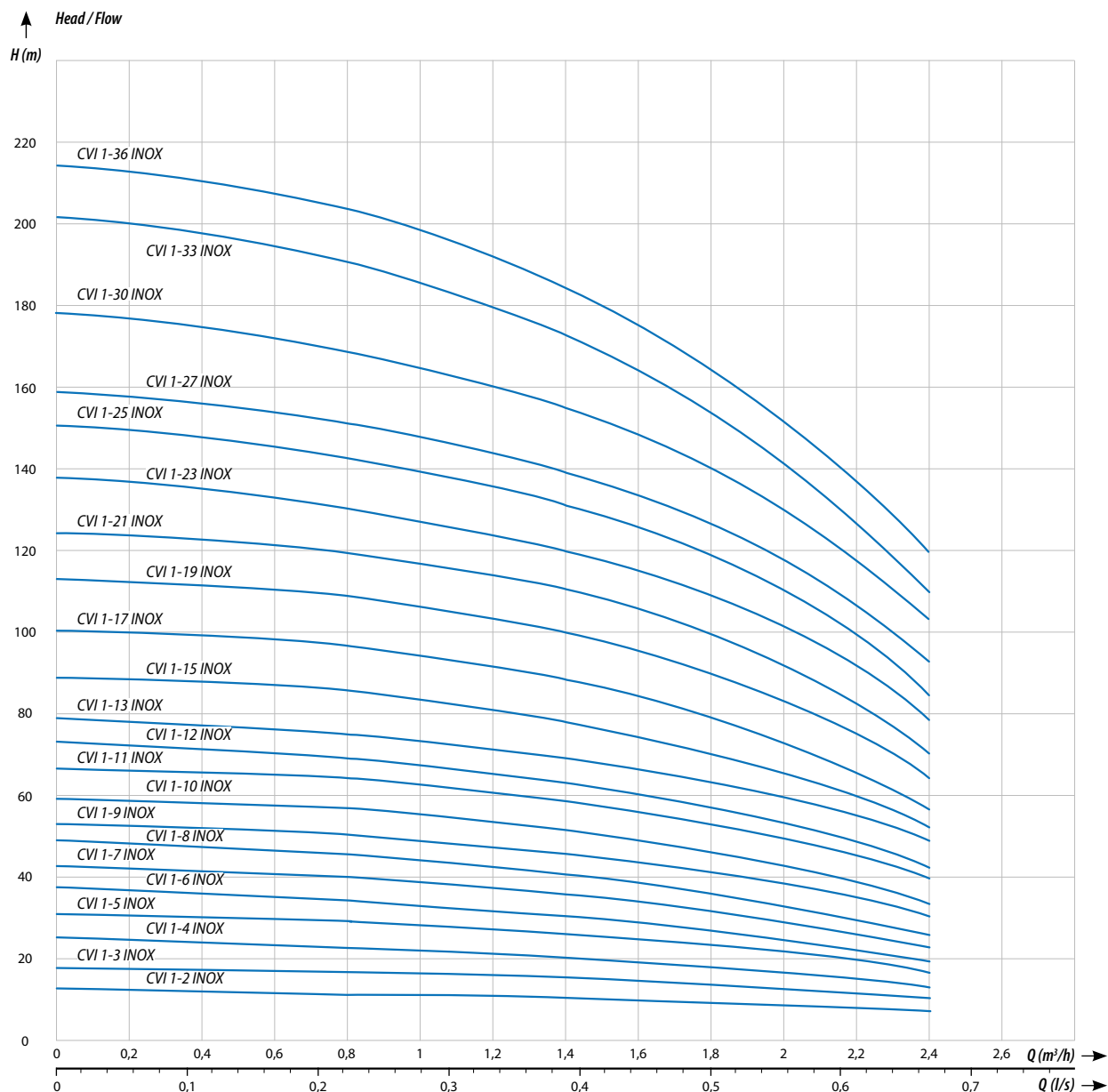
Range	CVI 1 INOX	CVI 2 INOX	CVI 3 INOX	CVI 4 INOX	CVI 5 INOX	CVI 10 INOX	CVI 15 INOX	CVI 20 INOX	CVI 32 INOX	CVI 45 INOX	CVI 64 INOX	CVI 90 INOX	CVI 120 INOX	CVI 150 INOX	CVI 200 INOX	CVI 320 INOX
Flow rate (m³/h)	1	2	3	4	5	10	15	20	32	45	64	90	120	150	200	320
Temperature (C°)	-20-90															
Max. efficiency (%)	44	45	56	58	65	66	68	69	77	78	80	81	–	–	–	–
Flow range (m³/h)	0,7–2,4	1–3,2	1,2–4,5	2–4,8	2,5–8	5–13	9–24	10–29	14–40	20–56	30–85	40–120	60–150	80–180	100–240	160–360
Max. pressure (bar)	22	25	24	25	24	22	23	25	28	26	20	20	16	16	16	16
Max. (bar)	47	47	47	47	47	47	47	47	39	40	39	39	25	25	25	24
Motor power (kW)	0,37–2,2	0,37–3	0,37–3	0,37–4	0,37–5,5	0,37–7,5	1,1–15	1,1–18,5	1,5–30	3–45	4–45	5,5–45	11–75	11–75	18,5–110	18,5–110
Flange connection	DN25	DN25	DN25	DN25	DN25	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN150	DN150	DN150	DN150
	DN32	DN32	DN32	DN32	DN32											

Model ranges	Max. system pressure (bar)	Model ranges	Max. inlet pressure (bar)
CVI 1 / 2 / 3 / 4 / 5 INOX	25	CVI 1-2 INOX > CVI 1-36 INOX	10
		CVI 2-2 INOX > CVI 2-26 INOX	10
		CVI 3-2 INOX > CVI 3-29 INOX	10
		CVI 3-31 INOX > CVI 3-36 INOX	15
		CVI 4-2 INOX > CVI 4-22 INOX	15
		CVI 5-2 INOX > CVI 5-16 INOX	10
		CVI 5-18 INOX > CVI 5-36 INOX	15
CVI 10-1 INOX > CVI 10-12 INOX	16	CVI 10-1 INOX > CVI 10-6 INOX	8
CVI 10-14 INOX > CVI 10-22 INOX	25	CVI 10-7 INOX > CVI 10-22 INOX	10
CVI 15-1 INOX > CVI 15-10 INOX	16	CVI 15-1 INOX > CVI 15-3 INOX	8
CVI 15-12 INOX > CVI 15-17 INOX	25	CVI 15-4 INOX > CVI 15-17 INOX	10
CVI 20-1 INOX > CVI 20-10 INOX	16	CVI 20-1 INOX > CVI 20-3 INOX	8
CVI 20-12 INOX > CVI 20-17 INOX	25	CVI 20-4 INOX > CVI 20-17 INOX	10
CVI 32-1-1 INOX > CVI 32-7 INOX	16	CVI 32-1-1 INOX > CVI 32-4 INOX	4
CVI 32-8-2 INOX > CVI 32-12 INOX	25	CVI 32-5-2 INOX > CVI 32-10 INOX	10
CVI 32-13-2 INOX > CVI 32-14 INOX	30	CVI 32-11-2 INOX > CVI 32-14 INOX	15
CVI 45-1-1 INOX > CVI 45-5 INOX	16	CVI 45-1-1 INOX > CVI 45-2 INOX	4
CVI 45-6-2 INOX > CVI 45-9 INOX	25	CVI 45-3-2 INOX > CVI 45-5 INOX	10
CVI 45-10-2 INOX > CVI 32-13-2 INOX	33	CVI 45-6-2 INOX > CVI 45-13-2 INOX	15
CVI 64-1-1 INOX > CVI 64-5 INOX	16	CVI 64-1-1 INOX > CVI 64-2-2 INOX	4
CVI 64-6-2 INOX > CVI 64-8-1 INOX	25	CVI 64-2-1 INOX > CVI 64-4-2 INOX	10
		CVI 64-4-1 INOX > CVI 64-8-1 INOX	15
CVI 90-1-1 INOX > CVI 90-4 INOX	16	CVI 90-1-1 INOX > CVI 90-1 INOX	4
CVI 90-5-2 INOX > CVI 90-6 INOX	25	CVI 90-2-2 INOX > CVI 90-2-3 INOX	10
		CVI 90-3 INOX > CVI 90-6 INOX	15
CVI 120 / 150 / 200 / 320 INOX	25	CVI 120-1 INOX > CVI 120-2-2 INOX	10
		CVI 120-2-2 INOX > CVI 120-7 INOX	15
		CVI 150-1-1 INOX > CVI 150-1 INOX	10
		CVI 150-2-2 INOX > CVI 150-6 INOX	15
		CVI 200-1-B INOX > CVI 200-1 INOX	10
		CVI 200-2-2-B INOX > CVI 200-4 INOX	15
		CVI 320-1-1 INOX > CVI 320-1 INOX	10
		CVI 320-2-2 INOX > CVI 320-3-1 INOX	15

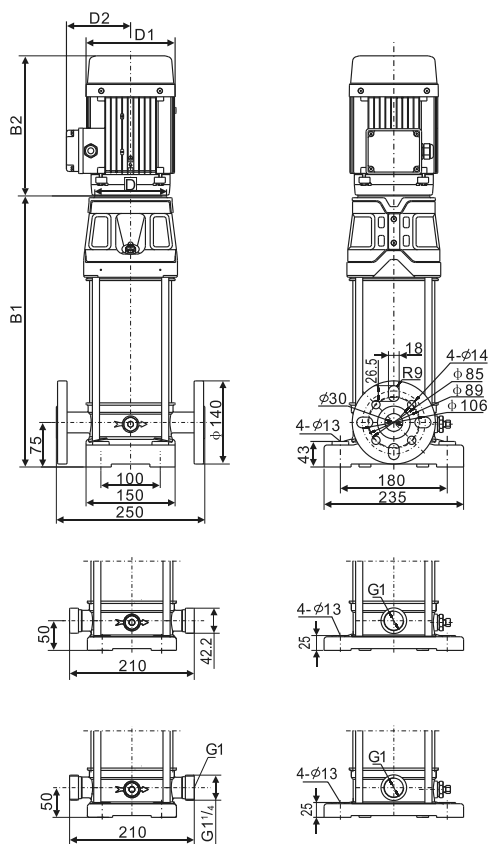
CVI 1 INOX



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CVI 1 INOX cont.



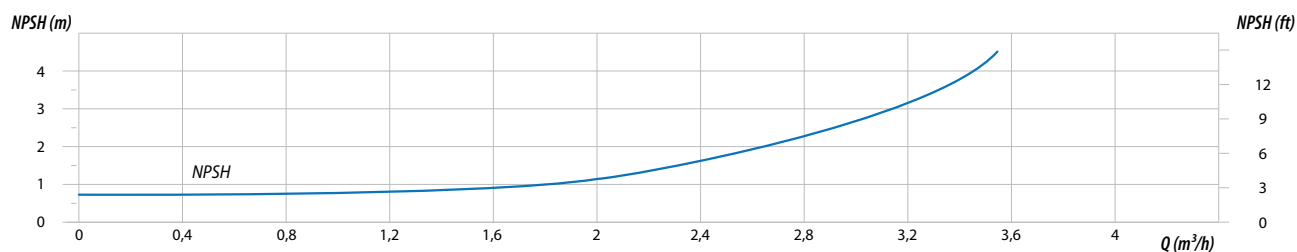
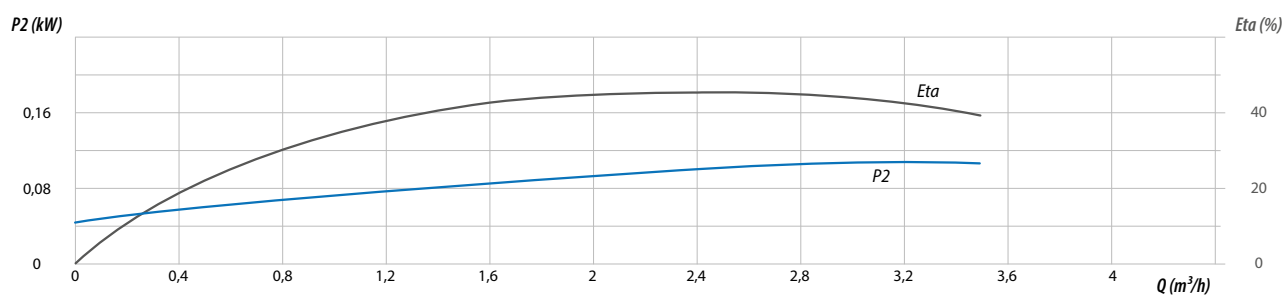
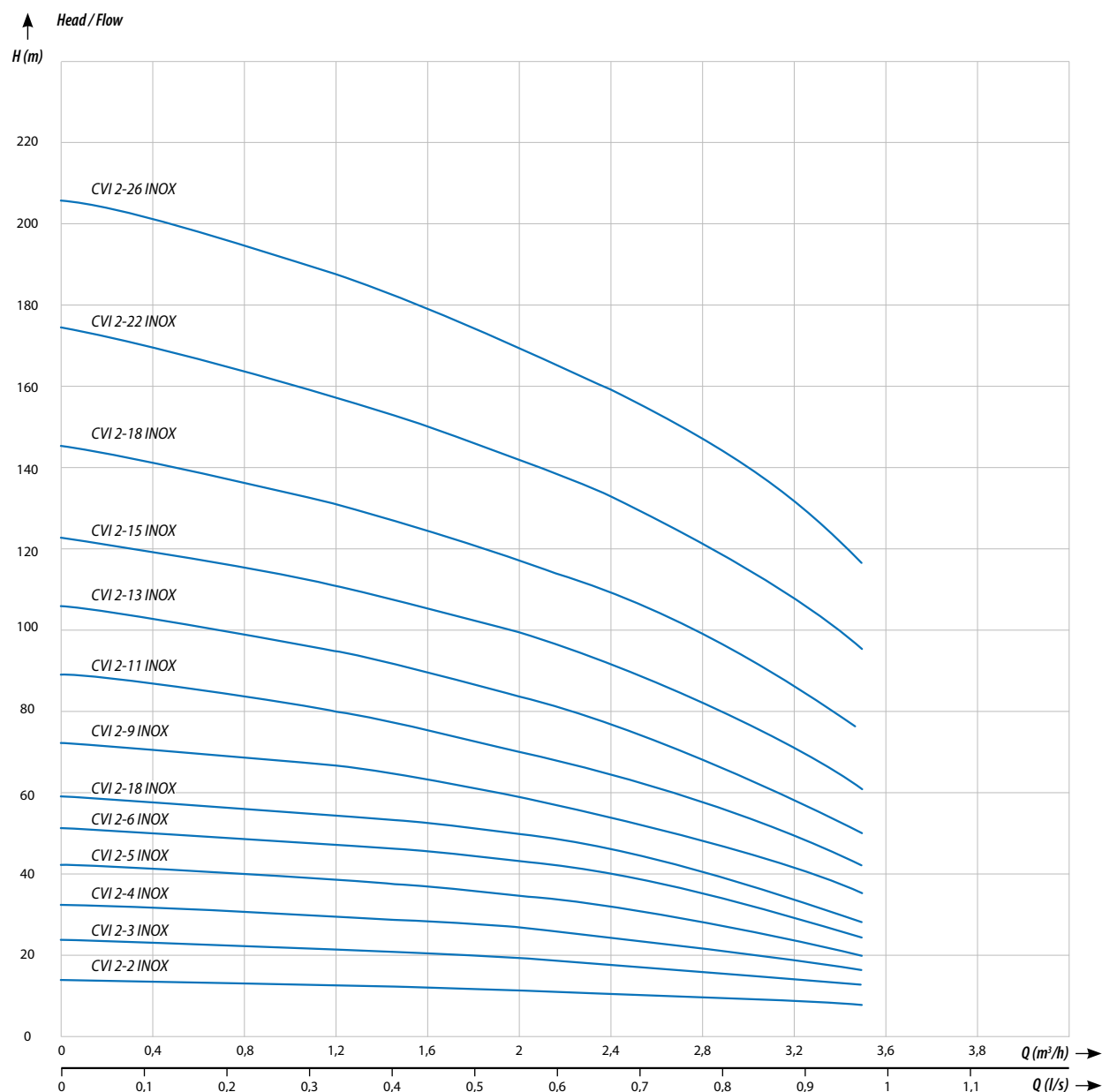
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 1-2 INOX	249	207	456	134	124 / 112	20
CVI 1-3 INOX	267	207	474	134	124 / 112	20
CVI 1-4 INOX	285	207	492	134	124 / 112	21
CVI 1-5 INOX	303	207	510	134	124 / 112	21
CVI 1-6 INOX	321	207	528	134	124 / 112	21
CVI 1-7 INOX	339	207	546	134	124 / 112	22
CVI 1-8 INOX	357	207	564	134	124 / 112	22
CVI 1-9 INOX	375	207	582	134	124 / 112	23
CVI 1-10 INOX	393	207	600	134	124 / 112	24
CVI 1-11 INOX	411	207	618	134	124 / 112	25
CVI 1-12 INOX	429	207	636	134	124 / 112	26
CVI 1-13 INOX	447	207	654	134	124 / 112	27
CVI 1-15 INOX	483	207	690	134	124 / 112	28
CVI 1-17 INOX	529	240	769	150	133 / 118	31
CVI 1-19 INOX	565	240	805	150	133 / 118	32
CVI 1-21 INOX	601	240	841	150	133 / 118	33
CVI 1-23 INOX	637	240	877	150	133 / 118	34
CVI 1-25 INOX	683 / 673	300 / 240	983 / 913	168 / 150	147 / 118	40
CVI 1-27 INOX	719 / 709	300 / 240	1019 / 949	168 / 150	147 / 118	41
CVI 1-30 INOX	773 / 763	300 / 240	1073 / 1003	168 / 150	147 / 118	42
CVI 1-33 INOX	827	300 / 280	1127 / 1107	168	147 / 127	45
CVI 1-36 INOX	881	300 / 280	1181 / 1161	168	147 / 127	46

Model	Power (kW)	Flow rate (m³/h)	0,4	0,6	0,8	1	1,2	1,4	1,6	1,8	2	2,2
CVI 1-2 INOX	0,37		12	11,8	11,5	11	11	10,5	9,8	9,2	8,5	7,8
CVI 1-3 INOX	0,37		17,5	17	16,8	16,5	16	15,5	14	13,5	12	10,5
CVI 1-4 INOX	0,37		23,5	23	22,5	22	21	20,5	18,5	18	16,5	14
CVI 1-5 INOX	0,37		29	28,5	28	27,5	26,5	26	24	23	20,5	17,5
CVI 1-6 INOX	0,37		35	34,5	34	33	32	31	28	27	25	22
CVI 1-7 INOX	0,37		41	40	39	38,5	37	35	33	32	29	25
CVI 1-8 INOX	0,55		46,5	46	45,5	44	42	40	38	36	33	29
CVI 1-9 INOX	0,55		52	51,5	51	49,5	47,5	46	44	41	37	34
CVI 1-10 INOX	0,55		58	57,5	57	56	54	52	48	46	41,5	37
CVI 1-11 INOX	0,55		65	63	62,5	61	59	56	54	50	46	40
CVI 1-12 INOX	0,75		70	69	68	66	64	62	58	55	49	43
CVI 1-13 INOX	0,75	H (m)	75	74,5	74	72	69	66	63	59	54	47
CVI 1-15 INOX	0,75		87	86	85	84	80,5	77	72	68	62	53
CVI 1-17 INOX	1,1		99	97,5	97	95	91	87	81,5	77	69	59
CVI 1-19 INOX	1,1		110,5	109	108	106	101	97	91	86	78	66
CVI 1-21 INOX	1,1		122	120,5	119,5	116	112	108	101	95	86	73
CVI 1-23 INOX	1,1		135	132,5	130	126	122	117	111	104	94	80
CVI 1-25 INOX	1,5		147	144	141	138	133	128	121	114	103	87
CVI 1-27 INOX	1,5		158	156	154	150	144	138	130	121	112	96
CVI 1-30 INOX	1,5		175	173	171	166	160	154	145	136	124	108
CVI 1-33 INOX	2,2		193	191	188	183	176	170	160	150	136	120
CVI 1-36 INOX	2,2		212	209	205	200	192	184	174	164	150	133

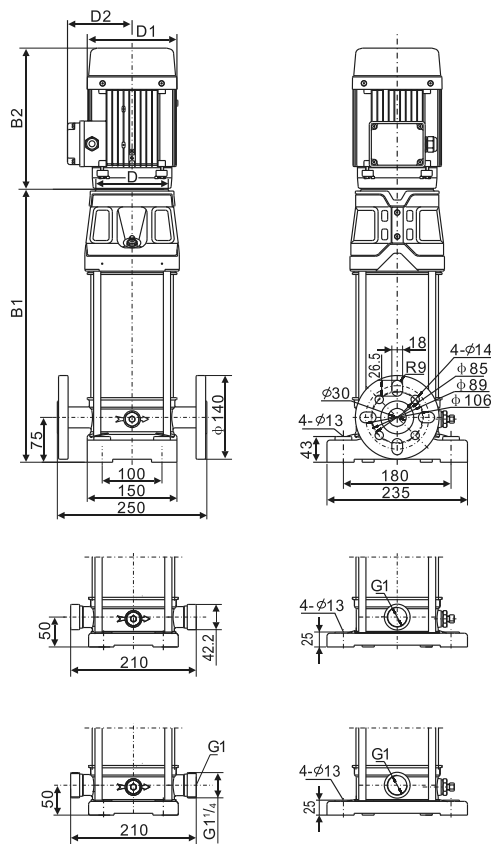
CVI 2 INOX



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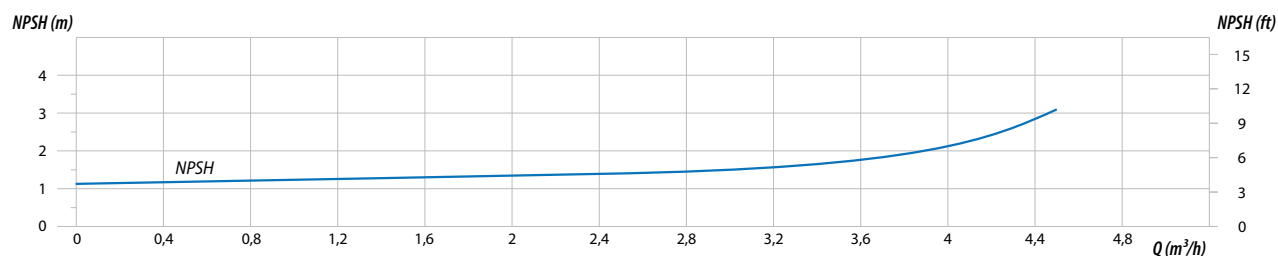
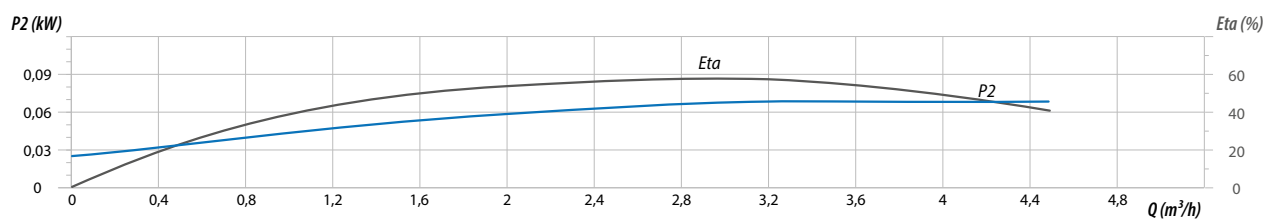
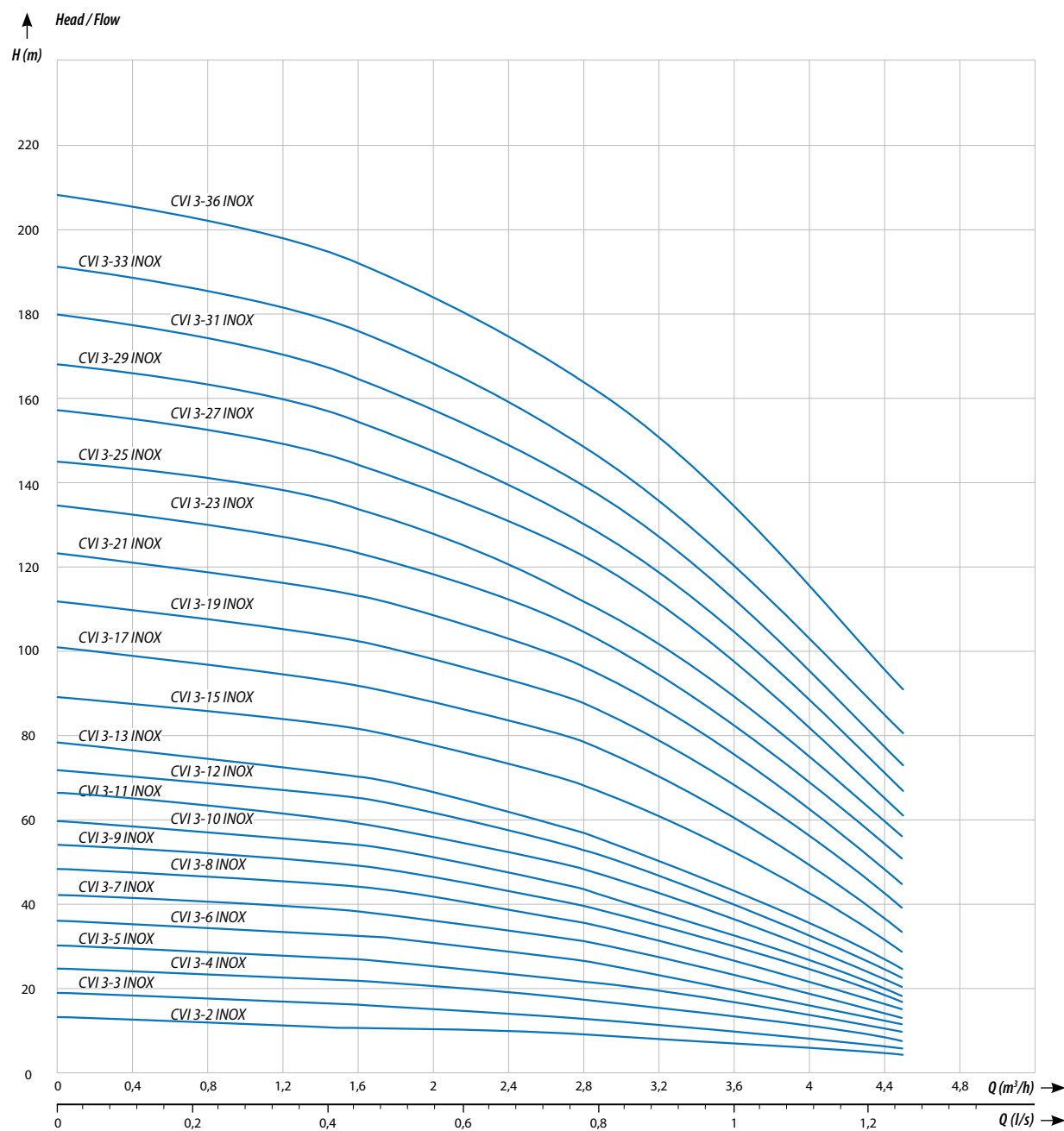
CVI 2 INOX cont.



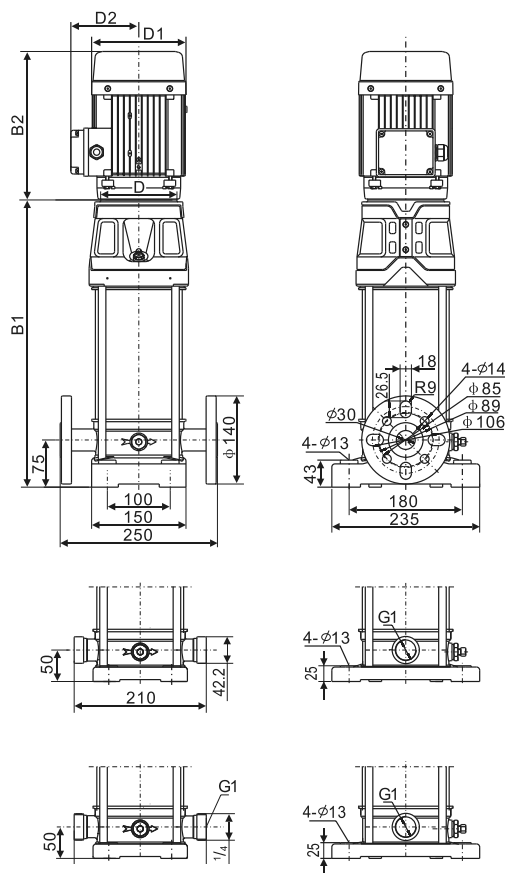
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 2-2 INOX	249	207	456	134	124 / 112	21
CVI 2-3 INOX	267	207	474	134	124 / 112	21
CVI 2-4 INOX	285	207	492	134	124 / 112	23
CVI 2-5 INOX	303	207	510	134	124 / 112	23
CVI 2-6 INOX	321	207	528	134	124 / 112	25
CVI 2-7 INOX	339	207	546	134	124 / 112	25
CVI 2-9 INOX	385	240	625	168 / 150	133 / 118	27
CVI 2-11 INOX	421	240	661	168 / 150	133 / 118	27
CVI 2-13 INOX	467 / 457	300 / 240	697	168 / 150	147 / 118	29
CVI 2-15 INOX	503 / 493	300 / 240	733	168 / 150	147 / 118	29
CVI 2-18 INOX	557	300 / 280	837	168	147 / 127	35
CVI 2-22 INOX	629	300 / 280	909	168	147 / 127	38
CVI 2-26 INOX	- / 701	- / 300	- / 1001	- / 168	- / 127	45

Model	Power (kW)	Flow rate (m³/h)	1	1,2	1,6	2	2,4	2,8	3,2	3,5
CVI 2-2 INOX	0,37	H (m)	16	15,5	14,5	14	12,5	11	9,5	8
CVI 2-3 INOX	0,37		23	22,5	21	20	18,5	16	14	12
CVI 2-4 INOX	0,55		32	31	30	28	26	23	20	16
CVI 2-5 INOX	0,55		42,5	42	40	37	34,5	30	25	20
CVI 2-6 INOX	0,75		51	50	47	44	41	36	30	24
CVI 2-7 INOX	0,75		59	57	55	52	47	41	35	28
CVI 2-9 INOX	1,1		72	71	67	63	58	51	44	36
CVI 2-11 INOX	1,1		87	85	80	74	67	59	50	42
CVI 2-13 INOX	1,5		106	104	99	90	81	71	60	51
CVI 2-15 INOX	1,5		121	119	112	105	96	85	72	61
CVI 2-18 INOX	2,2		143	139	133	125	116	105	91	78
CVI 2-22 INOX	2,2		173	169	162	152	140	126	110	95
CVI 2-26 INOX	3		206	201	191	180	170	155	133	118

CVI 3 INOX



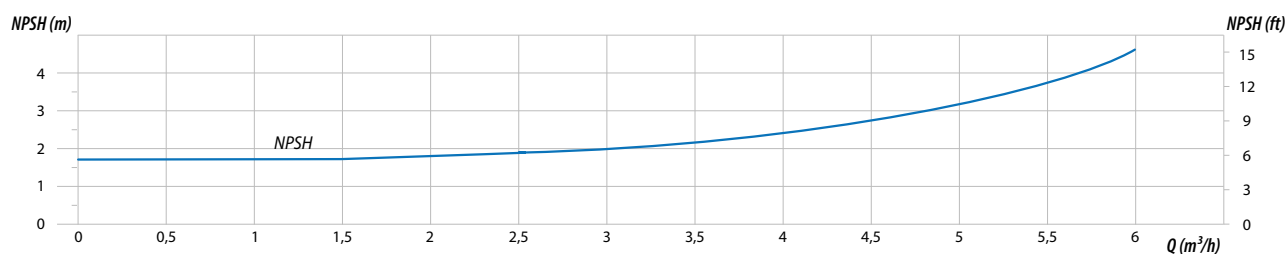
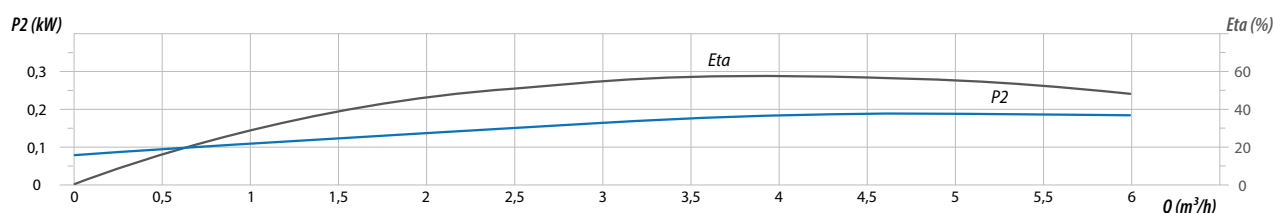
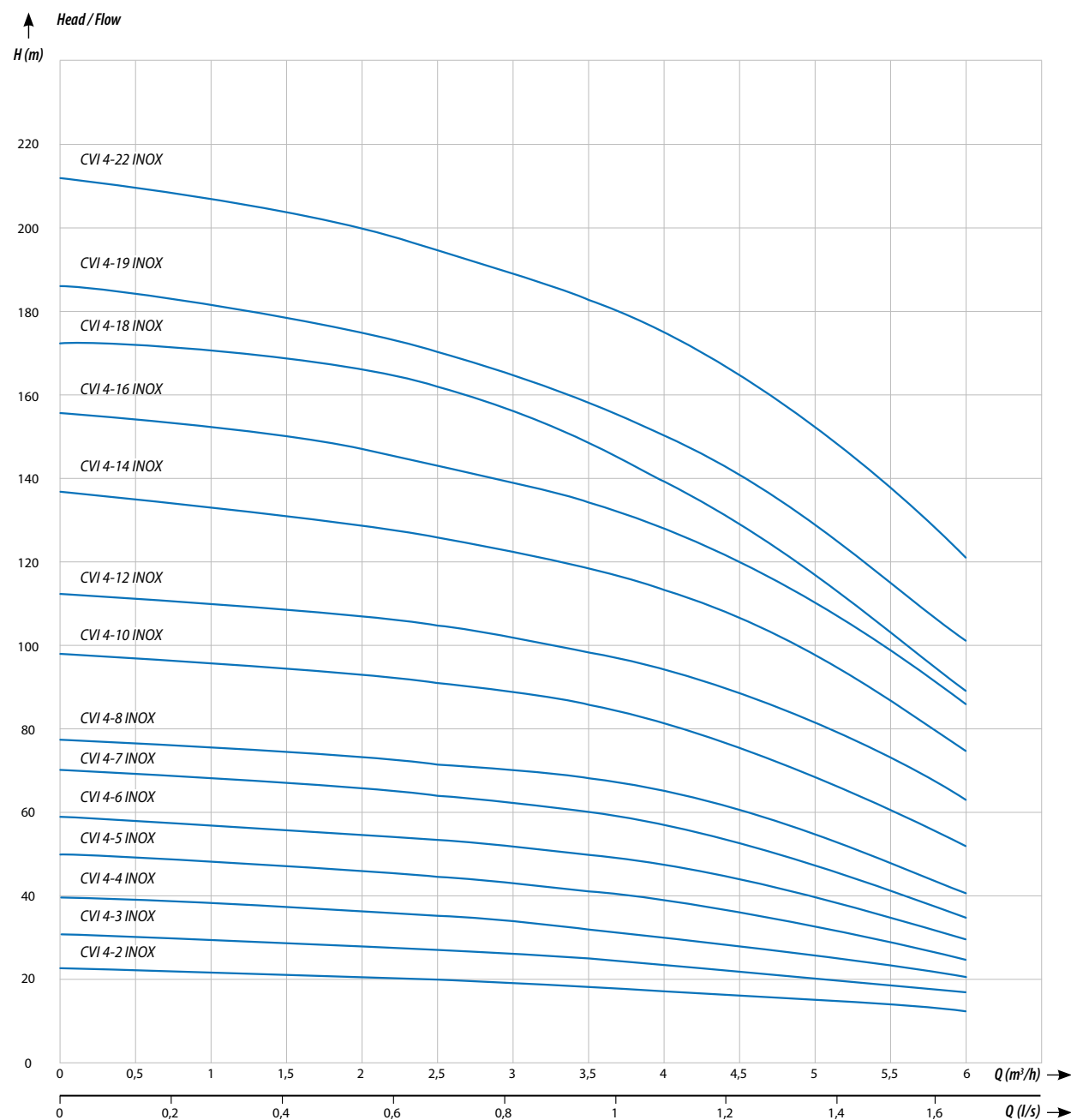
CVI 3 INOX cont.



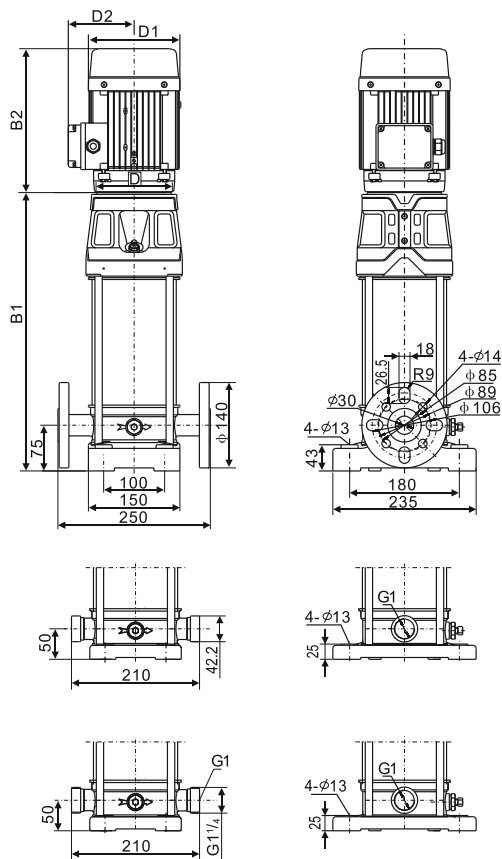
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 3-2 INOX	249	207	456	134	124 / 112	20
CVI 3-3 INOX	267	207	474	134	124 / 112	20
CVI 3-4 INOX	285	207	492	134	124 / 112	21
CVI 3-5 INOX	303	207	510	134	124 / 112	21
CVI 3-6 INOX	321	207	528	134	124 / 112	22
CVI 3-7 INOX	339	207	546	134	124 / 112	22
CVI 3-8 INOX	357	207	564	134	124 / 112	23
CVI 3-9 INOX	375	207	582	134	124 / 112	24
CVI 3-10 INOX	393	207	600	134	124 / 112	25
CVI 3-11 INOX	421	240	661	150	133 / 118	27
CVI 3-12 INOX	439	240	679	150	133 / 118	27
CVI 3-13 INOX	457	240	697	150	133 / 118	28
CVI 3-15 INOX	493	240	733	150	133 / 118	29
CVI 3-17 INOX	539 / 529	240	839 / 769	168 / 150	147 / 118	34
CVI 3-19 INOX	575 / 565	240	875 / 805	168 / 150	147 / 118	35
CVI 3-21 INOX	611 / 565	280	911 / 891	168	147 / 127	38
CVI 3-23 INOX	647 / 565	280	947 / 927	168	147 / 127	39
CVI 3-25 INOX	683 / 565	280	983 / 963	168	147 / 127	40
CVI 3-27 INOX	719 / 565	280	1019 / 999	168	147 / 127	41
CVI 3-29 INOX	755 / 565	280	1055 / 1035	168	147 / 127	42
CVI 3-31 INOX	- / 791	- / 300	- / 1091	- / 168	- / 127	47
CVI 3-33 INOX	- / 827	- / 300	- / 1127	- / 168	- / 127	48
CVI 3-36 INOX	- / 881	- / 300	- / 1181	- / 168	- / 127	50

Model	Power (kW)	Flow rate (m³/h)	1,2	1,6	2	2,4	2,8	3	3,2	3,4	3,6	4
CVI 3-2 INOX	0,37		12	11,3	10,5	10	9	8,5	8	7,5	7	6
CVI 3-3 INOX	0,37		18	17	16	15	14	13	12	11	10	8
CVI 3-4 INOX	0,37		24	23	21,5	20	18,5	17,5	16,5	15	13,5	11
CVI 3-5 INOX	0,37		30	28,5	27	25	23	22	20,5	19	17,5	14
CVI 3-6 INOX	0,55		36	34	32	30	28	26	24	22	20	16,5
CVI 3-7 INOX	0,55		42	40,5	39	36	33	30,5	28,5	26	24	19,5
CVI 3-8 INOX	0,75		48	46	44	41	37	35	32,5	30	27	22,5
CVI 3-9 INOX	0,75		53	51	49	46	41,5	39	37	34	32	26
CVI 3-10 INOX	0,75		59	57	55	51	46	43	41	37	34	28
CVI 3-11 INOX	1,1		65	62,5	60	56	51	48	45	42	38	30,5
CVI 3-12 INOX	1,1		71	68	66	61	55	52	49	45,5	42	34
CVI 3-13 INOX	1,1		77	74	71	66	60	57	53	50	46	37
CVI 3-15 INOX	1,1		88	85	82	77	72	68,5	64	60	55	44
CVI 3-17 INOX	1,5		100	97	93	88	83	79	74	69	64	52
CVI 3-19 INOX	1,5		112	108	104	98	92	88	83	77	71	58
CVI 3-21 INOX	2,2		123	119	115	108	102	94	92	86	79	65
CVI 3-23 INOX	2,2		134	130	125	119	110	105	100	94	86	72
CVI 3-25 INOX	2,2		146	141	135	128	118	113	108	102	94	79
CVI 3-27 INOX	2,2		158	152	146	138	129	123	117	110	103	86
CVI 3-29 INOX	2,2		169	163	156	147	137	132	125	118	111	93
CVI 3-31 INOX	3		180	174	167	157	147	141	134	126	118	100
CVI 3-33 INOX	3		191	186	178	168	157	150	143	135	127	108
CVI 3-36 INOX	3		209	203	194	184	173	166	159	151	143	122

CVI 4 INOX



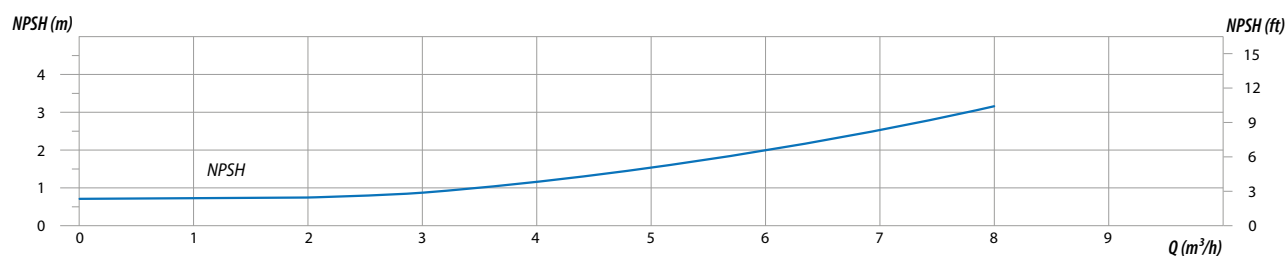
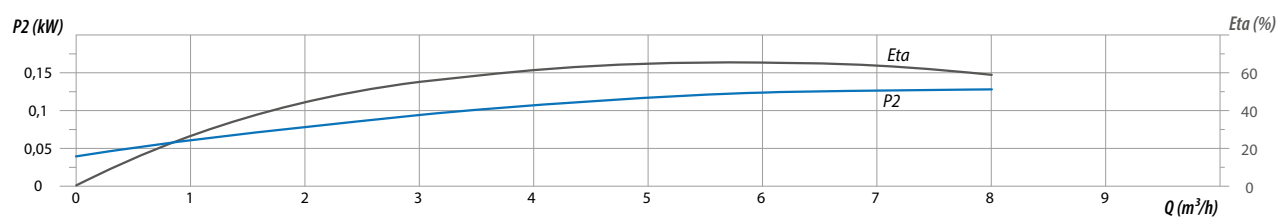
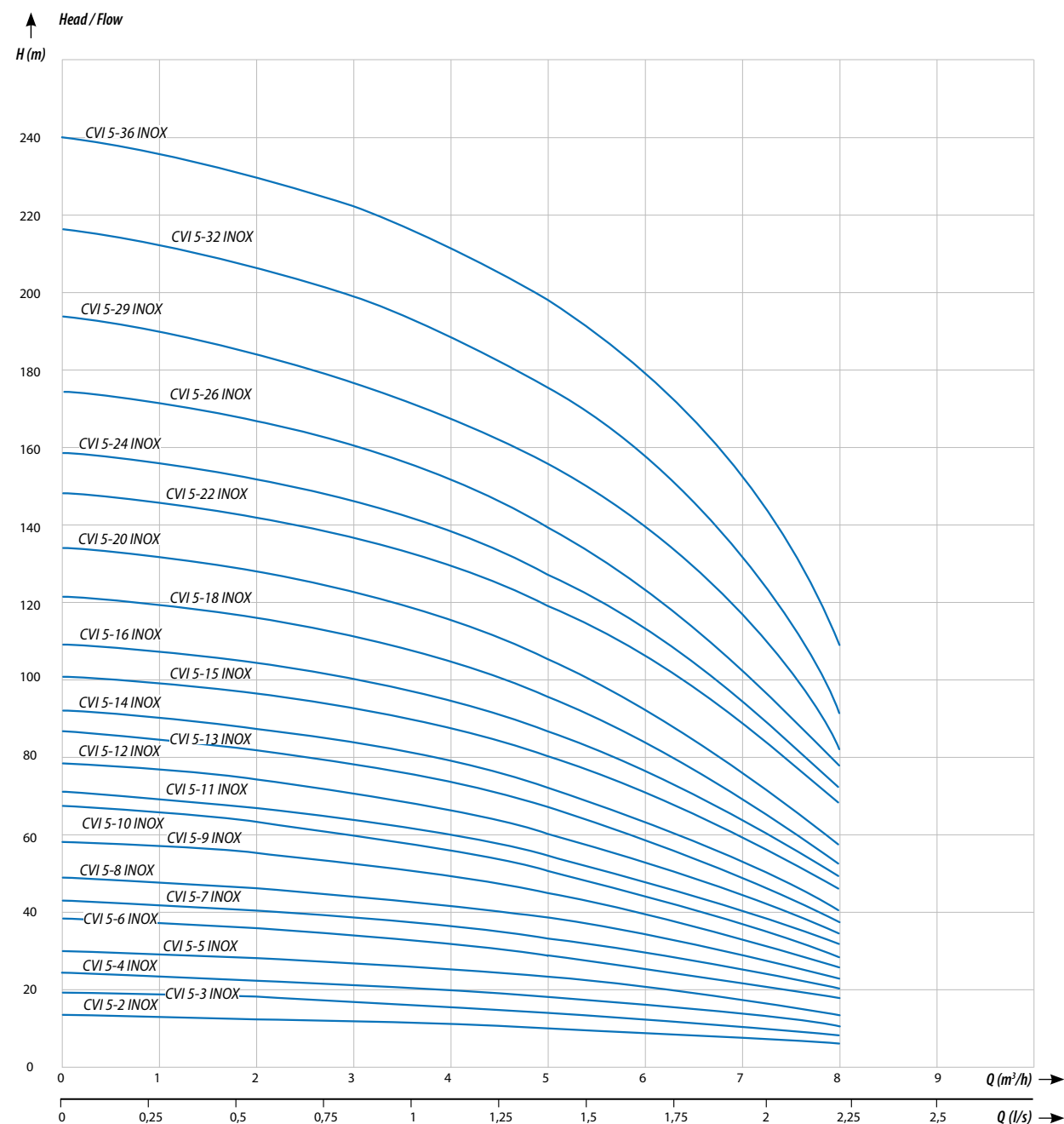
CVI 4 INOX cont.



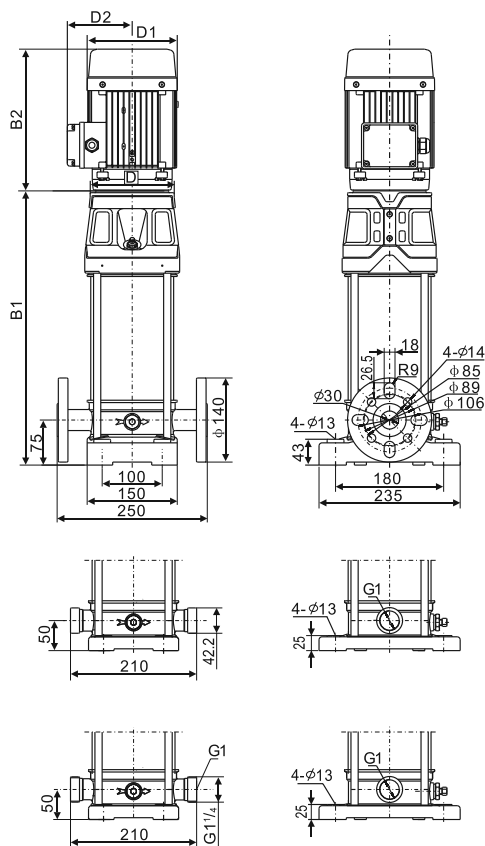
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 4-2 INOX	249	207	456	134	124 / 112	22
CVI 4-3 INOX	267	207	474	134	124 / 112	22
CVI 4-4 INOX	285	207	492	134	124 / 112	23
CVI 4-5 INOX	313	240	553	150	133 / 118	23
CVI 4-6 INOX	331	240	571	150	133 / 118	25
CVI 4-7 INOX	349	300 / 240	659 / 589	168 / 150	147 / 118	30
CVI 4-8 INOX	367	300 / 240	677 / 607	168 / 150	147 / 118	30
CVI 4-10 INOX	413	300 / 280	713 / 693	168	147 / 127	32
CVI 4-12 INOX	449	300 / 280	749 / 729	168	147 / 127	32
CVI 4-14 INOX	- / 485	- / 300	- / 785	- / 168	- / 127	35
CVI 4-16 INOX	- / 521	- / 300	- / 821	- / 168	- / 127	39
CVI 4-18 INOX	- / 567	- / 323	- / 890	- / 200	- / 146	42
CVI 4-19 INOX	- / 585	- / 323	- / 908	- / 200	- / 146	45
CVI 4-22 INOX	- / 639	- / 323	- / 962	- / 200	- / 146	49

Model	Power (kW)	Flow rate (m³/h)	1	2	3	4	4,5	5	5,5	6
CVI 4-2 INOX	0,37	H (m)	21	20	18	16	15	14	13	12
CVI 4-3 INOX	0,55		31	29,5	28	24	22	21	19	18
CVI 4-4 INOX	0,75		40	38	35	31	29	27	24	22
CVI 4-5 INOX	1,1		50	48	44	40	38	34	30	26
CVI 4-6 INOX	1,1		59	57	53	49	45	41	36	30
CVI 4-7 INOX	1,5		71	69	65	59	55	50	43	36
CVI 4-8 INOX	1,5		76	74	71	65	60	56	51	42
CVI 4-10 INOX	2,2		95	93	90	84	78	72	65	58
CVI 4-12 INOX	2,2		115	110	105	98	91	84	76	68
CVI 4-14 INOX	3		139	134	128	118	111	102	90	79
CVI 4-16 INOX	3		158	153	145	134	126	116	103	89
CVI 4-18 INOX	4		176	173	164	148	135	118	108	94
CVI 4-19 INOX	4		186	180	170	155	145	133	117	98
CVI 4-22 INOX	4		216	208	197	182	172	159	143	126

CVI 5 INOX



CVI 5 INOX cont.



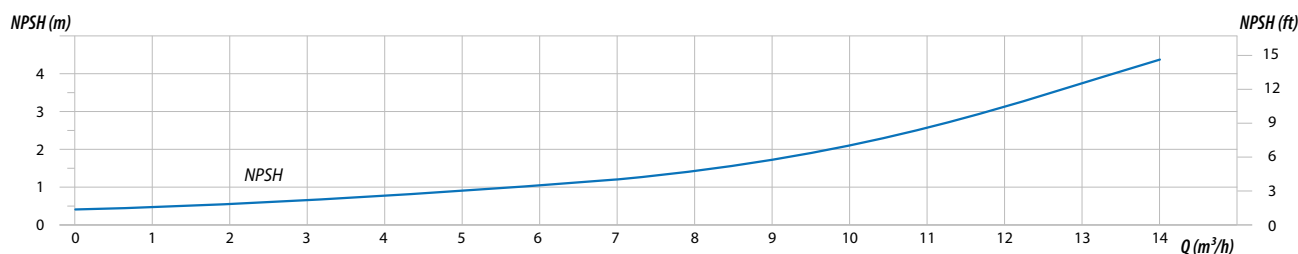
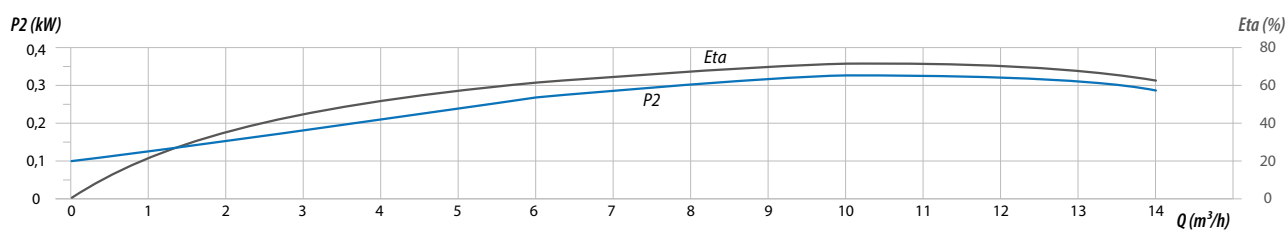
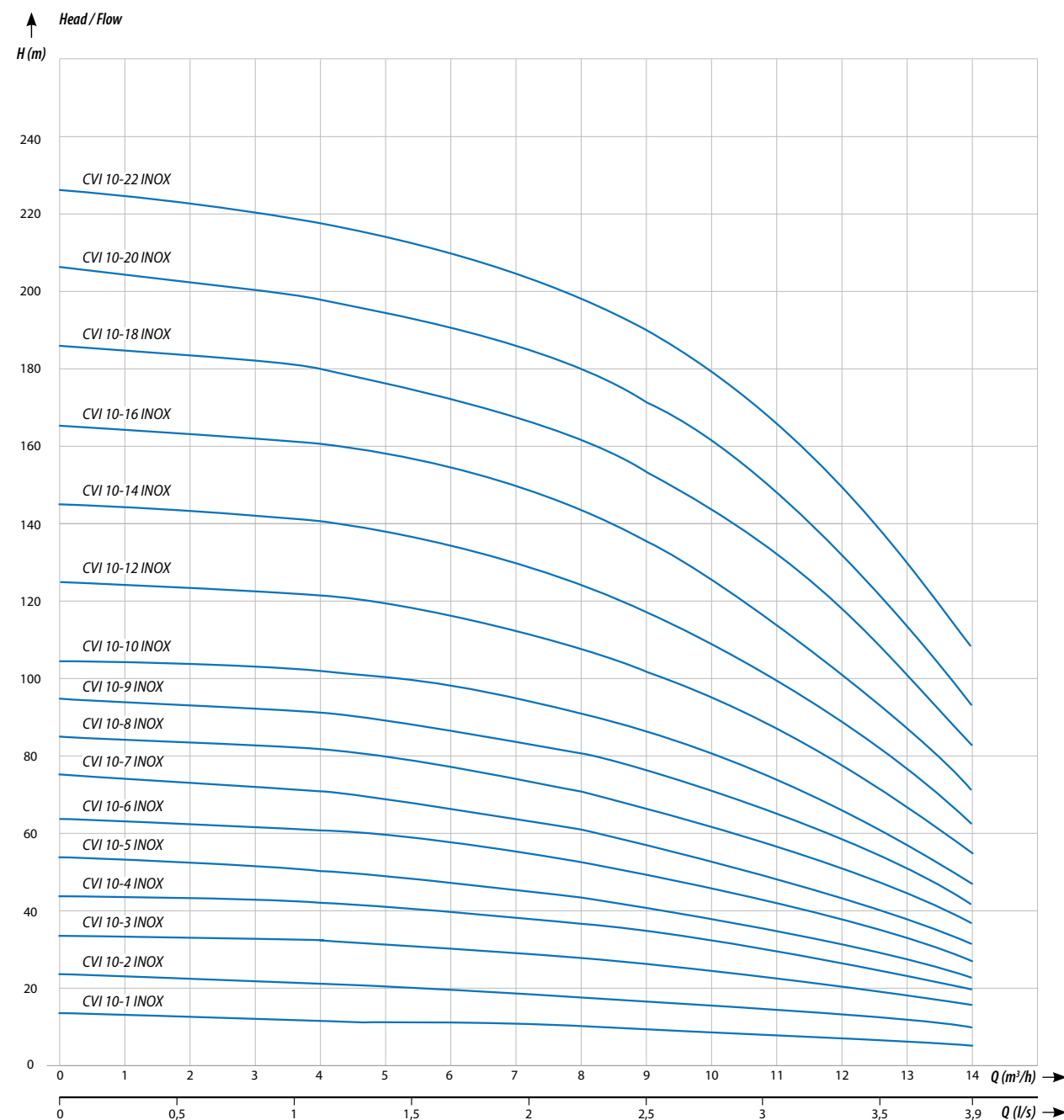
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 5-2 INOX	267	207	474	134	124 / 112	21
CVI 5-3 INOX	294	207	501	134	124 / 112	21
CVI 5-4 INOX	321	207	528	134	124 / 112	22
CVI 5-5 INOX	348	207	555	134	124 / 112	24
CVI 5-6 INOX	385	240	625	150	133 / 118	27
CVI 5-7 INOX	412	240	652	150	133 / 118	28
CVI 5-8 INOX	439	240	679	150	133 / 118	29
CVI 5-9 INOX	476 / 466	300 / 240	776 / 706	168	147 / 118	35
CVI 5-10 INOX	503 / 493	300 / 280	803 / 733	168	147 / 118	36
CVI 5-11 INOX	530	300 / 280	830 / 810	168	147 / 127	37
CVI 5-12 INOX	557	300 / 280	857 / 837	168	147 / 127	38
CVI 5-13 INOX	584	300 / 280	884 / 864	168	147 / 127	39
CVI 5-14 INOX	611	300 / 280	911 / 891	168	147 / 127	40
CVI 5-15 INOX	638	300 / 280	938 / 918	168	147 / 127	41
CVI 5-16 INOX	665	300 / 280	965 / 945	168	147 / 127	42
CVI 5-18 INOX	- / 719	- / 300	- / 1019	- / 168	- / 127	45
CVI 5-20 INOX	- / 773	- / 300	- / 1073	- / 168	- / 127	46
CVI 5-22 INOX	- / 837	- / 323	- / 1160	- / 200	- / 146	58
CVI 5-24 INOX	- / 891	- / 323	- / 1214	- / 200	- / 146	59
CVI 5-26 INOX	- / 945	- / 323	- / 1268	- / 200	- / 146	61
CVI 5-29 INOX	- / 1026	- / 323	- / 1349	- / 200	- / 146	63
CVI 5-32 INOX	- / 1134	- / 379	- / 1513	- / 212	- / 162	78
CVI 5-36 INOX	- / 1242	- / 379	- / 1621	- / 212	- / 162	80

Model	Power (kW)	Flow rate (m³/h)	2	3	4	4,5	5	5,5	6	6,5	7	7,5	8
CVI 5-2 INOX	0,37	H (m)	14	13	12	11,5	11	10	9	8	7,5	6,5	6
CVI 5-3 INOX	0,55		19	18	16,5	15,5	15	14	13	12	11	9	8
CVI 5-4 INOX	0,55		24,5	23	22,5	21	20	18,5	17	15,5	14	12,5	11
CVI 5-5 INOX	0,75		30,5	29	27	26	24,5	23	21,5	20	17,5	16	14
CVI 5-6 INOX	1,1		37	35	33	31,5	30	28	26	24	22	20	18
CVI 5-7 INOX	1,1		43	41	39	37	35	33	31	28	26	24	21
CVI 5-8 INOX	1,1		49	47	44	42	40	38	36	32	30	27	24
CVI 5-9 INOX	1,5		56	53	50	47,5	45	42,5	40	37	33,5	30,5	27
CVI 5-10 INOX	1,5		62	59	55	53	50	47	44	41	37	34	30
CVI 5-11 INOX	2,2		68,5	65,5	61,5	59	56	52	49	45	41	37	33
CVI 5-12 INOX	2,2		75	72,5	68	65	62	58	54	49	45	40,5	36
CVI 5-13 INOX	2,2		81,5	79	74	71	68	64	59,5	54	49	44	39
CVI 5-14 INOX	2,2		89	85	81	77	74	69	65	59	54	48	42
CVI 5-15 INOX	2,2		96	93	88	84	80	75	70	64	59	52	45
CVI 5-16 INOX	2,2		103	100	94	90	85	80	75	69	63	56	48
CVI 5-18 INOX	3		115	110	104	100	96	90	85	78	71	63	54
CVI 5-20 INOX	3		129	122	115	109	105	99	94	86	78	70	60
CVI 5-22 INOX	4		139	134	126	121	116	110	103	95	87	77	66
CVI 5-24 INOX	4		152	146	138	133	127	120	113	105	96	84	72
CVI 5-26 INOX	4		164	158	150	144	138	131	122	114	104	91	78
CVI 5-29 INOX	4		185	177	168	164	157	150	141	132	119	103	87
CVI 5-32 INOX	5,5		205	197	189	183	176	166	158	147	134	114	96
CVI 5-36 INOX	5,5		230	222	212	205	198	188	177	166	154	133	108

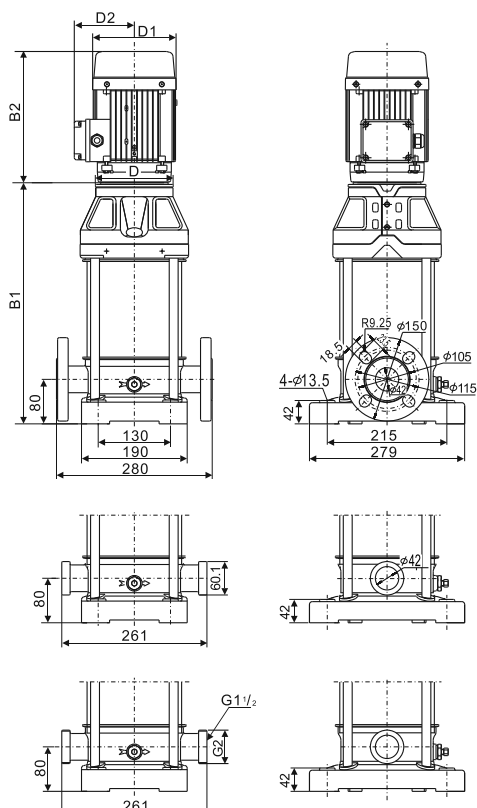


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CVI 10 INOX



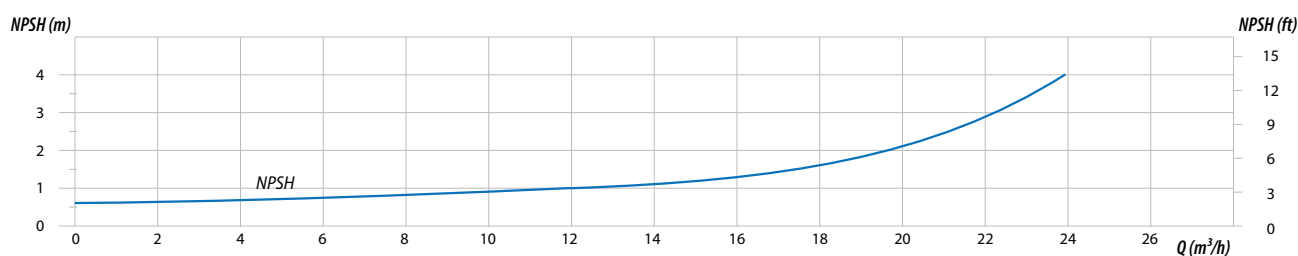
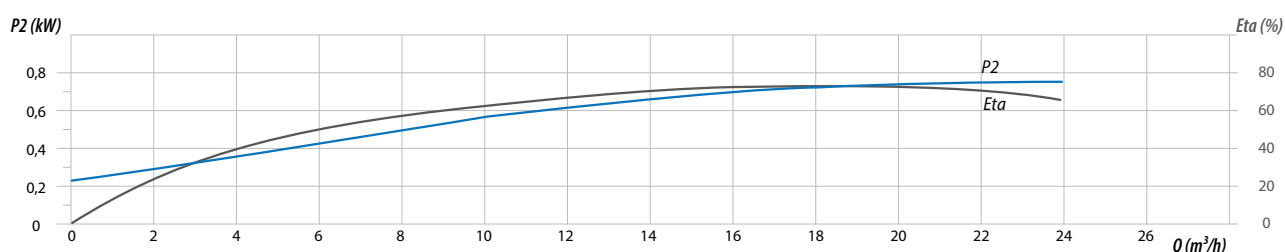
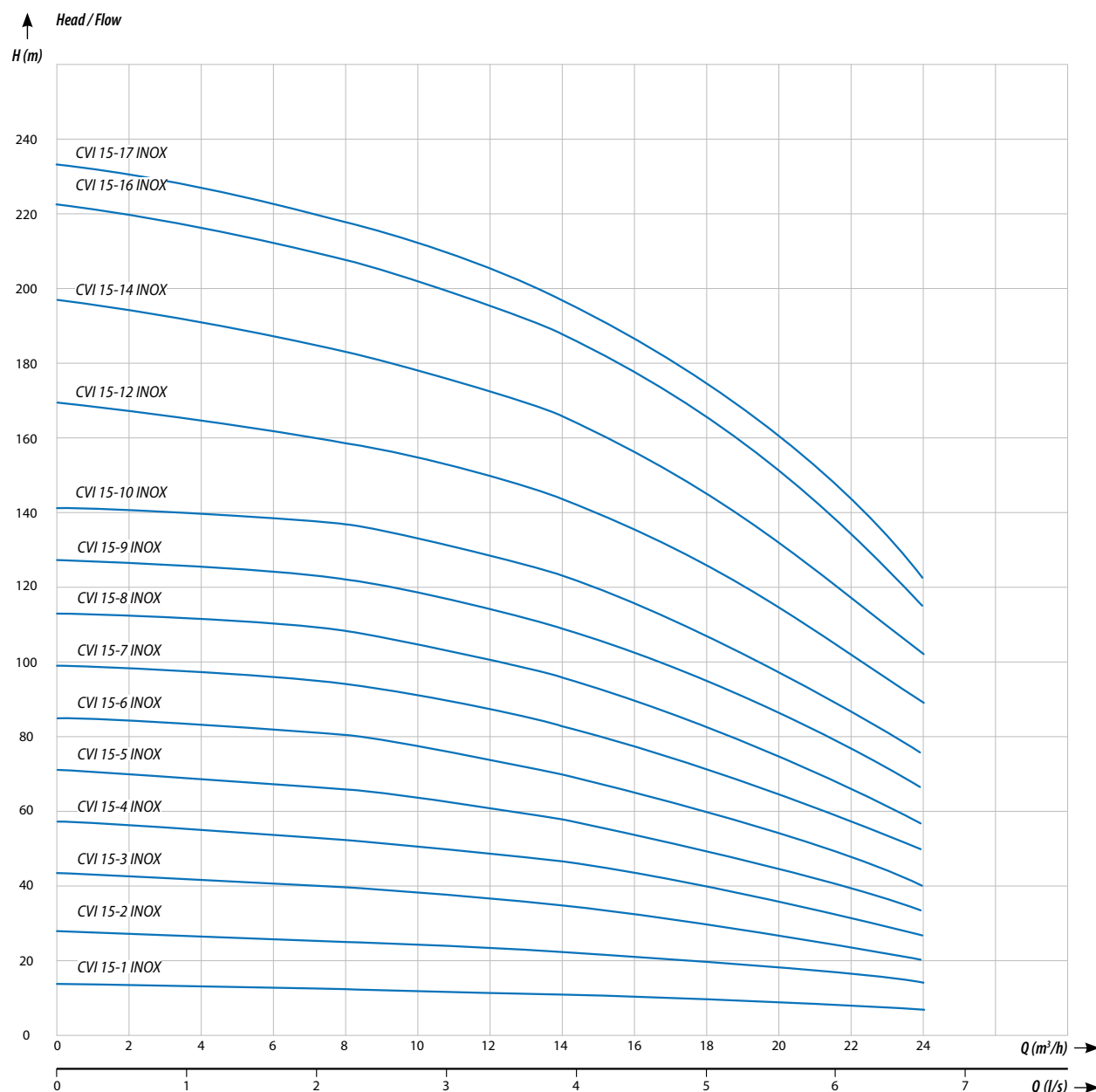
CVI 10 INOX cont.



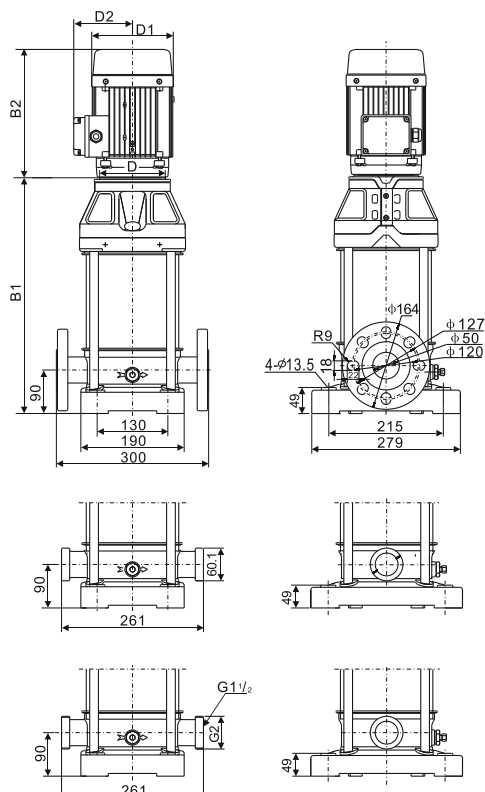
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 10-1 INOX	301	207	508	134	124 / 112	6
CVI 10-2 INOX	331	207	538	134	124 / 112	10
CVI 10-3 INOX	365	240	605	150	133 / 118	16
CVI 10-4 INOX	407 / 395	300 / 240	707 / 635	168 / 150	147 / 118	20
CVI 10-5 INOX	437	300 / 280	737 / 717	168	147 / 127	24
CVI 10-6 INOX	467	300 / 280	767 / 747	168	147 / 127	28
CVI 10-7 INOX	– / 497	– / 300	– / 797	– / 168	– / 127	32
CVI 10-8 INOX	– / 527	– / 300	– / 827	– / 168	– / 127	37
CVI 10-9 INOX	– / 557	– / 300	– / 857	– / 168	– / 127	42
CVI 10-10 INOX	– / 597	– / 323	– / 920	– / 200	– / 146	47
CVI 10-12 INOX	– / 657	– / 323	– / 980	– / 200	– / 146	55
CVI 10-14 INOX	– / 742	– / 379	– / 1121	– / 212	– / 160	63
CVI 10-16 INOX	– / 802	– / 379	– / 1181	– / 212	– / 160	71
CVI 10-18 INOX	– / 862	– / 417	– / 1279	– / 212	– / 160	82
CVI 10-20 INOX	– / 922	– / 417	– / 1339	– / 212	– / 160	93
CVI 10-22 INOX	– / 982	– / 417	– / 1399	– / 212	– / 160	106

Model	P2 power (kW)	Flow rate (m³/h)	2	4	6	8	10	12	14
CVI 10-1 INOX	0,37	H (m)	13	12	11	9,5	8,5	7	6
CVI 10-2 INOX	0,75		23	22	20	18	16	13	10
CVI 10-3 INOX	1,1		33	32	31	28	25	21	16
CVI 10-4 INOX	1,5		43	42	40	37	32	27	20
CVI 10-5 INOX	2,2		53	51	48	44	39	32	24
CVI 10-6 INOX	2,2		62	61	58	53	46	38	28
CVI 10-7 INOX	3		73	72	67	61	54	43	32
CVI 10-8 INOX	3		83	81	78	71	62	51	37
CVI 10-9 INOX	3		93	91	87	81	71	59	42
CVI 10-10 INOX	4		104	101	98	91	81	67	47
CVI 10-12 INOX	4		123	121	117	108	95	78	55
CVI 10-14 INOX	5,5		143	141	136	124	110	90	63
CVI 10-16 INOX	5,5		163	161	154	143	125	102	71
CVI 10-18 INOX	7,5		183	179	173	161	144	118	82
CVI 10-20 INOX	7,5	202	198	191	180	160	133	93	
CVI 10-22 INOX	7,5	222	217	209	198	178	149	106	

CVI 15 INOX



CVI 15 INOX cont.



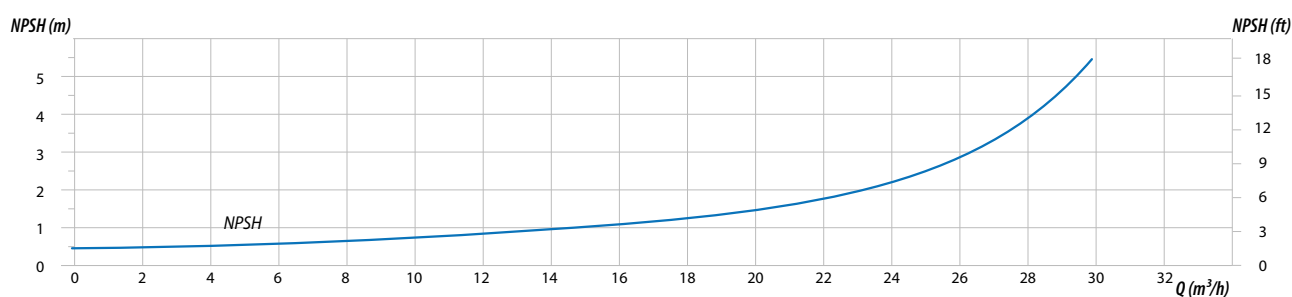
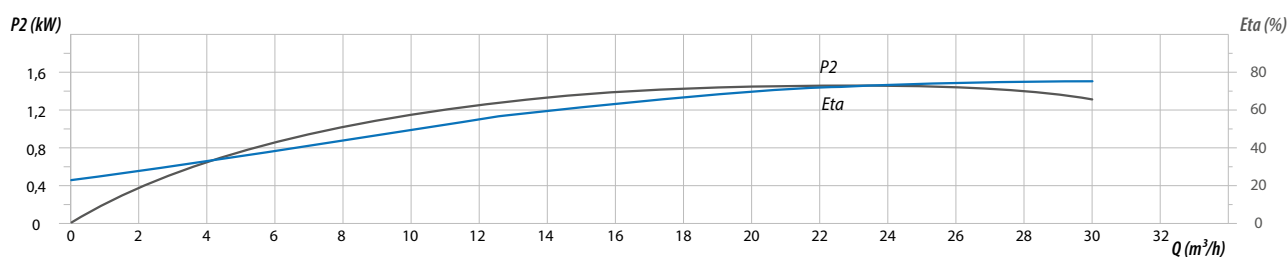
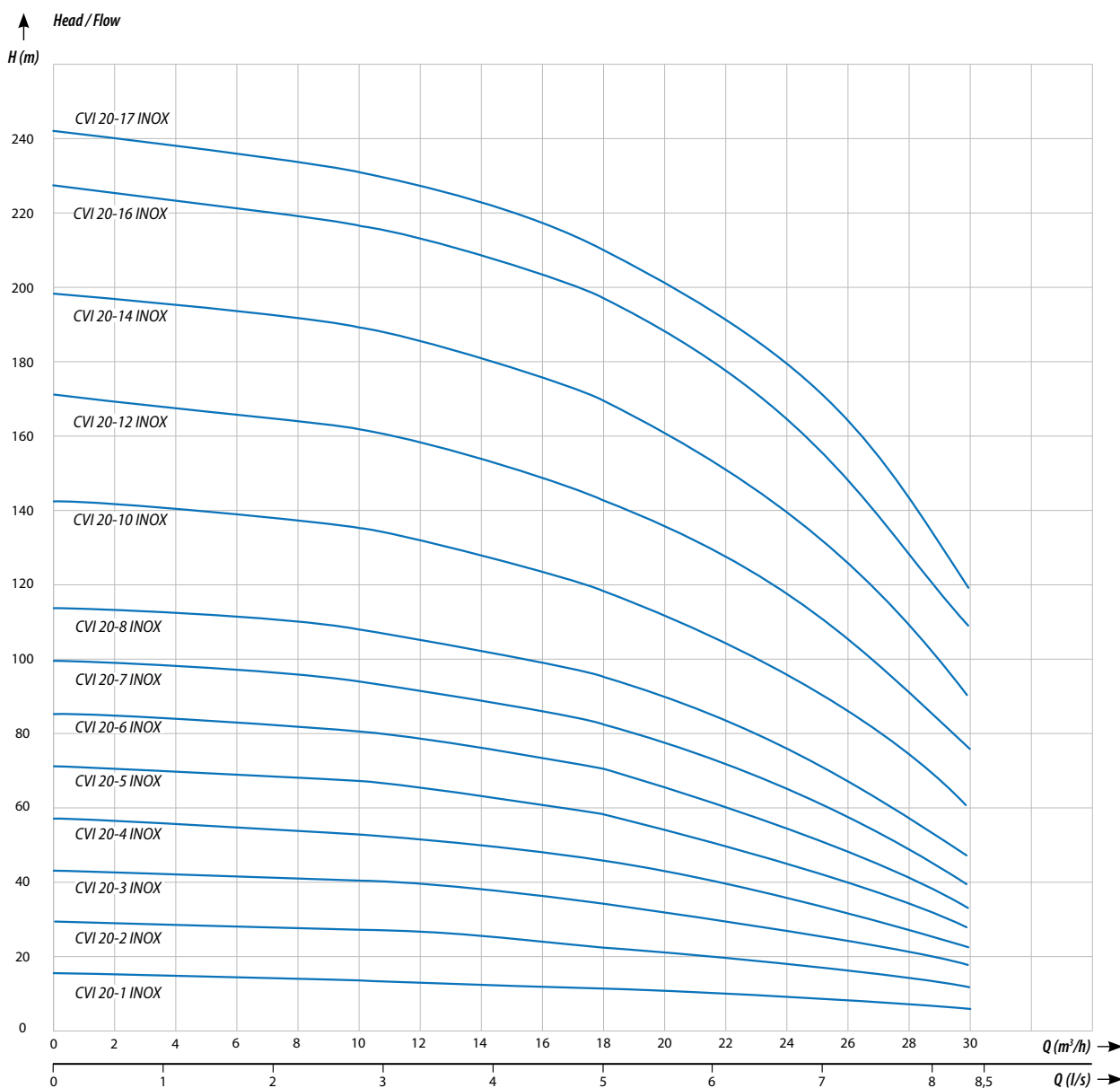
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 15-1 INOX	327	240	567	150	118	40
CVI 15-2 INOX	384	300 / 280	684 / 664	168	147 / 127	45
CVI 15-3 INOX	- / 429	- / 300	- / 729	- / 168	- / 127	50
CVI 15-4 INOX	- / 484	- / 323	- / 807	- / 200	- / 146	55
CVI 15-5 INOX	- / 529	- / 323	- / 852	- / 200	- / 146	58
CVI 15-6 INOX	- / 599	- / 379	- / 978	- / 212	- / 160	90
CVI 15-7 INOX	- / 644	- / 379	- / 123	- / 212	- / 160	93
CVI 15-8 INOX	- / 689	- / 417	- / 1106	- / 212	- / 160	97
CVI 15-9 INOX	- / 734	- / 417	- / 1151	- / 212	- / 160	98
CVI 15-10 INOX	- / 864	- / 448	- / 1312	- / 255	- / 178	140
CVI 15-12 INOX	- / 954	- / 448	- / 1402	- / 255	- / 178	144
CVI 15-14 INOX	- / 1044	- / 448	- / 1492	- / 255	- / 178	147
CVI 15-16 INOX	- / 1134	- / 489	- / 1623	- / 255	- / 178	148
CVI 15-17 INOX	- / 1179	- / 489	- / 1668	- / 255	- / 178	160

Model	Power (kW)	Flow rate (m³/h)	8	10	12	14	15	16	18	20	22	24
CVI 15-1 INOX	1,1	H (m)	14	13	12	11,5	11	10,5	10	9	8	7
CVI 15-2 INOX	2,2		26	25	24	23	22	21	20	18	16	14
CVI 15-3 INOX	3		39	38	37	34	33	31	29	27	24	20
CVI 15-4 INOX	4		52	50	48	46	44	43	40	36	31	26
CVI 15-5 INOX	4		66	64	61	58	56	54	50	45	39	33
CVI 15-6 INOX	5,5		80	78	75	70	67	65	60	54	47	41
CVI 15-7 INOX	5,5		94	92	88	83	80	78	71	64	56	50
CVI 15-8 INOX	7,5		108	105	101	96	93	90	83	75	66	57
CVI 15-9 INOX	7,5		122	119	115	109	104	98	93	87	77	66
CVI 15-10 INOX	11		136	133	128	123	120	116	107	98	86	76
CVI 15-12 INOX	11		158	155	150	144	140	135	126	116	102	89
CVI 15-14 INOX	11		183	178	172	165	162	156	145	133	118	103
CVI 15-16 INOX	15		210	204	197	190	185	179	168	153	137	118
CVI 15-17 INOX	15		218	212	203	198	193	188	171	155	136	125

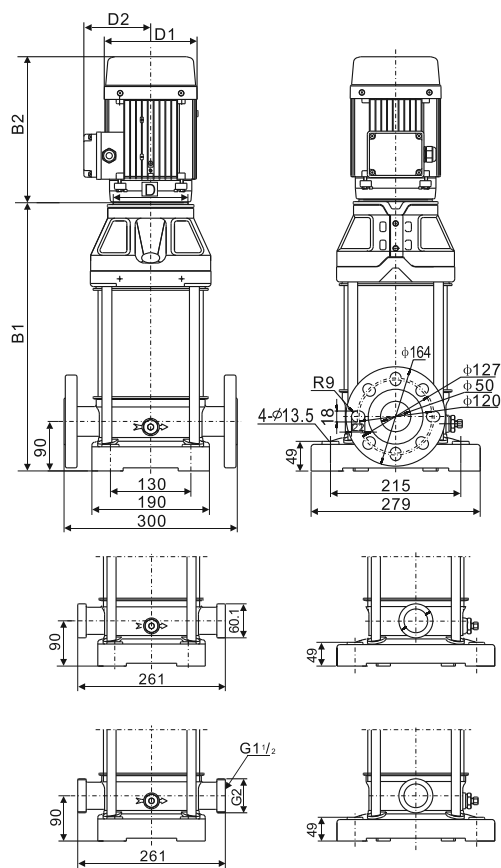
CVI 20 INOX



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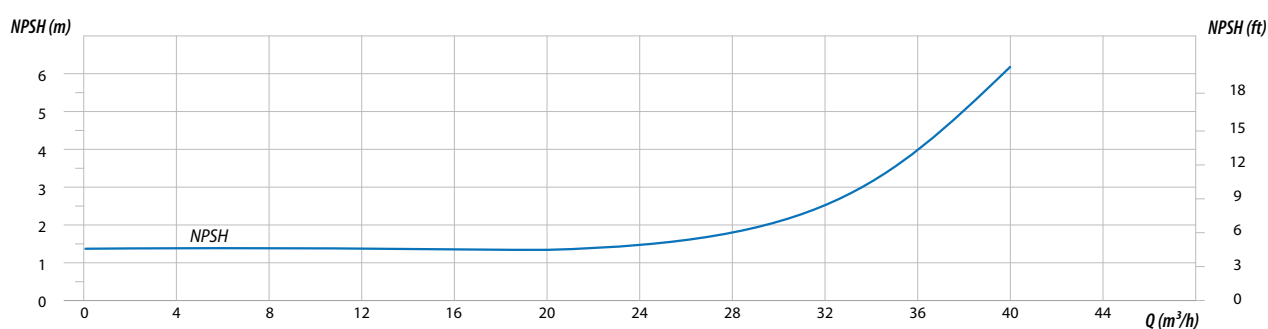
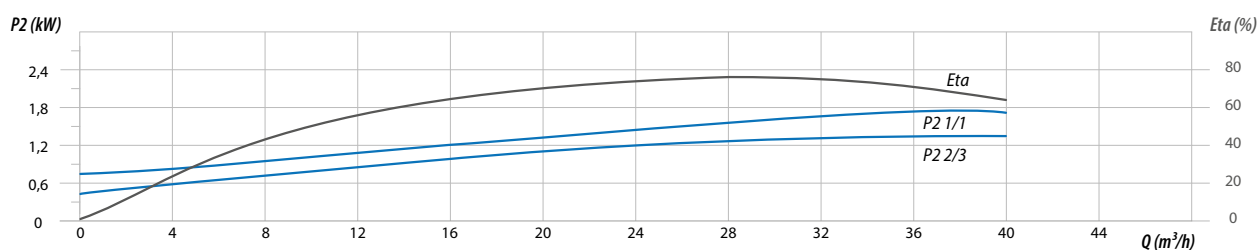
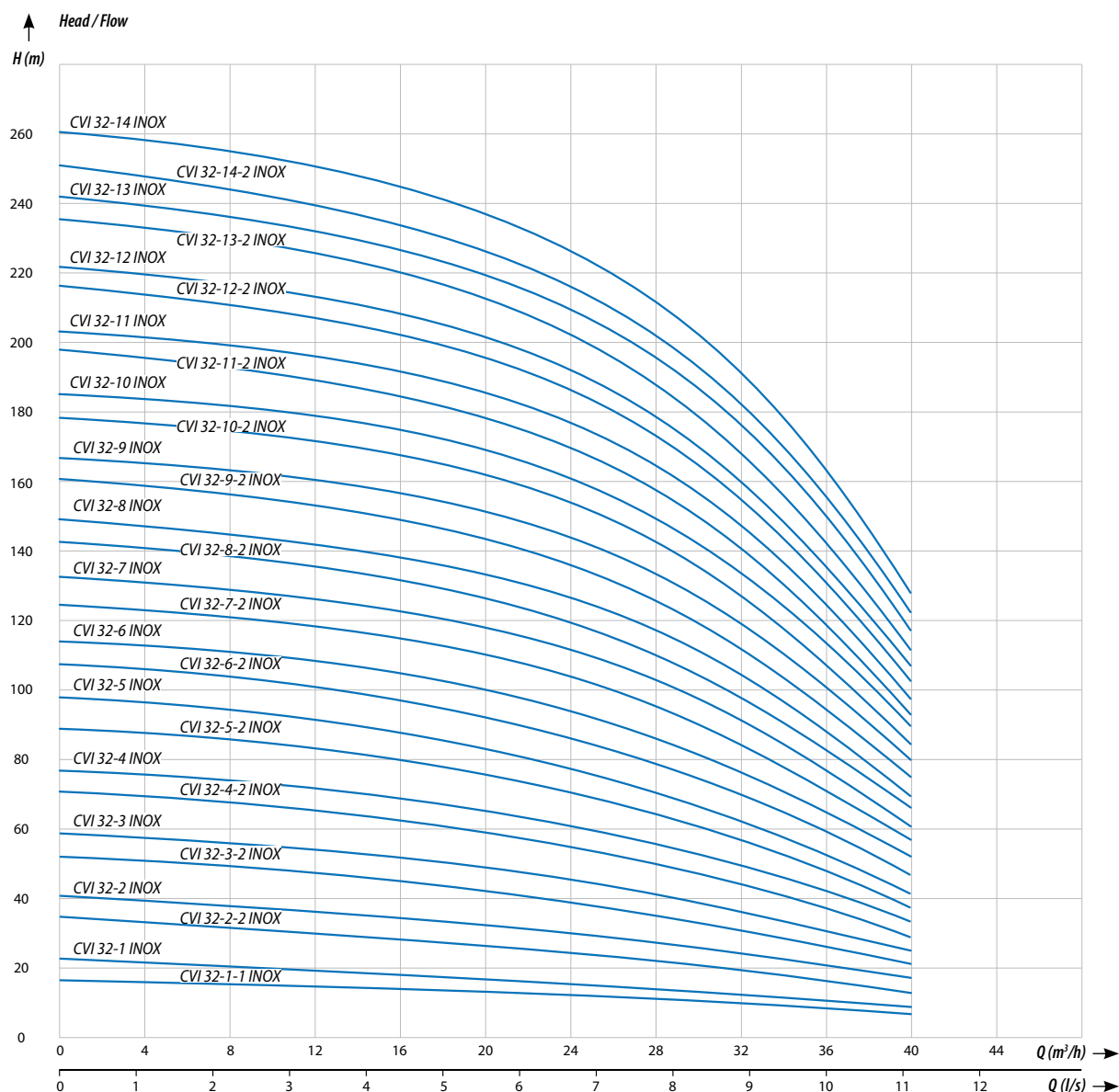
CVI 20 INOX cont.



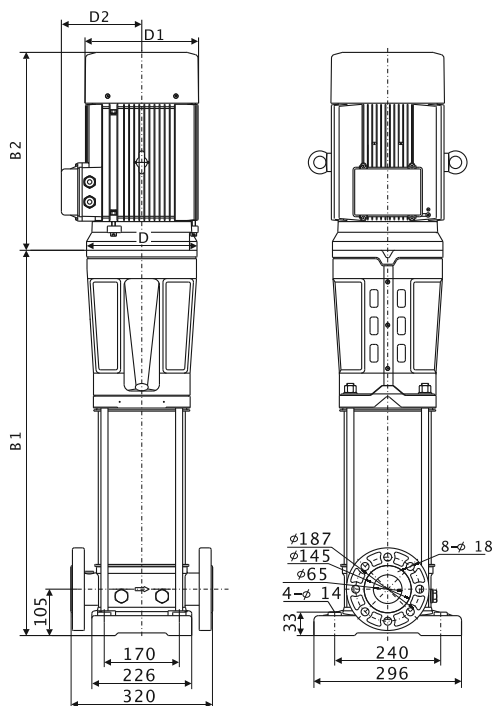
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 20-1 INOX	327	240	567	150	118	40
CVI 20-2 INOX	384	300 / 280	684 / 664	168	147 / 127	45
CVI 20-3 INOX	- / 439	- / 323	- / 762	- / 200	- / 146	55
CVI 20-4 INOX	- / 509	- / 379	- / 888	- / 212	- / 160	80
CVI 20-5 INOX	- / 554	- / 379	- / 933	- / 212	- / 160	83
CVI 20-6 INOX	- / 599	- / 417	- / 1016	- / 212	- / 160	87
CVI 20-7 INOX	- / 644	- / 417	- / 1061	- / 212	- / 160	90
CVI 20-8 INOX	- / 774	- / 448	- / 1222	- / 255	- / 178	130
CVI 20-10 INOX	- / 864	- / 448	- / 1312	- / 255	- / 178	136
CVI 20-12 INOX	- / 954	- / 489	- / 1443	- / 255	- / 178	145
CVI 20-14 INOX	- / 1044	- / 489	- / 1533	- / 255	- / 178	148
CVI 20-16 INOX	- / 1134	- / 542	- / 1676	- / 313	- / 257	168
CVI 20-17 INOX	- / 1179	- / 542	- / 1721	- / 313	- / 257	170

Model	Power (kW)	Flow rate (m³/h)	8	10	12	14	16	18	20	24	26	28
CVI 20-1 INOX	1,1	H (m)	14	13,5	13	12,5	12	11,5	10,5	9	8	7
CVI 20-2 INOX	2,2		28	27	26	25	24	22,5	21	18	16	14
CVI 20-3 INOX	4		41	40	39	38	36	34	32	27	24	21
CVI 20-4 INOX	5,5		54	53	52	51	50	46	43	36	32	27
CVI 20-5 INOX	5,5		68	67	65	63	61	58	55	45	40	33
CVI 20-6 INOX	7,5		82	80	78	77	73	70	66	55	48	40
CVI 20-7 INOX	7,5		96	94	92	89	86	82	77	65	58	47
CVI 20-8 INOX	11		110	107	104	102	99	95	89	76	67	56
CVI 20-10 INOX	11		137	135	132	127	124	118	112	98	86	73
CVI 20-12 INOX	15		164	162	158	154	149	142	136	118	106	90
CVI 20-14 INOX	15		191	189	186	181	176	169	161	140	126	110
CVI 20-16 INOX	18,5		219	217	214	208	203	198	186	164	147	129
CVI 20-17 INOX	18,5		234	231	228	223	217	210	202	178	162	142

CVI 32 INOX



CVI 32 INOX cont.



Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 32-1-1 INOX	422	300 / 280	722 / 702	168	147 / 127	60
CVI 32-1 INOX	422	300 / 280	722 / 702	168	147 / 127	61
CVI 32-2-2 INOX	- / 492	- / 300	- / 792	- / 168	- / 127	75
CVI 32-2 INOX	- / 492	- / 323	- / 815	- / 200	- / 146	86
CVI 32-3-2 INOX	- / 562	- / 323	- / 885	- / 200	- / 146	105
CVI 32-3 INOX	- / 634	- / 379	- / 1013	- / 212	- / 163	105
CVI 32-4-2 INOX	- / 704	- / 417	- / 1121	- / 212	- / 163	116
CVI 32-4 INOX	- / 704	- / 417	- / 1121	- / 212	- / 163	117
CVI 32-5-2 INOX	- / 867	- / 448	- / 1315	- / 255	- / 178	170
CVI 32-5 INOX	- / 867	- / 448	- / 1315	- / 255	- / 178	171
CVI 32-6-2 INOX	- / 937	- / 448	- / 1385	- / 255	- / 178	176
CVI 32-6 INOX	- / 937	- / 448	- / 1385	- / 255	- / 178	176
CVI 32-7-2 INOX	- / 1007	- / 489	- / 1496	- / 255	- / 178	206
CVI 32-7 INOX	- / 1007	- / 489	- / 1496	- / 255	- / 178	207
CVI 32-8-2 INOX	- / 1077	- / 489	- / 1566	- / 255	- / 178	208
CVI 32-8 INOX	- / 1077	- / 489	- / 1566	- / 255	- / 178	209
CVI 32-9-2 INOX	- / 1147	- / 542	- / 1689	- / 313	- / 257	225
CVI 32-9 INOX	- / 1147	- / 542	- / 1689	- / 313	- / 257	226
CVI 32-10-2 INOX	- / 1217	- / 542	- / 1759	- / 313	- / 257	230
CVI 32-10 INOX	- / 1217	- / 542	- / 1759	- / 313	- / 257	231
CVI 32-11-2 INOX	- / 1287	- / 580	- / 1867	- / 356	- / 274	270
CVI 32-11 INOX	- / 1287	- / 580	- / 1867	- / 356	- / 274	271
CVI 32-12-2 INOX	- / 1357	- / 580	- / 1937	- / 356	- / 274	275
CVI 32-12 INOX	- / 1357	- / 580	- / 1937	- / 356	- / 274	276
CVI 32-13-2 INOX	- / 1427	- / 653	- / 2080	- / 395	- / 304	395
CVI 32-13 INOX	- / 1427	- / 653	- / 2080	- / 395	- / 304	395
CVI 32-14-2 INOX	- / 1497	- / 653	- / 2150	- / 395	- / 304	400
CVI 32-14 INOX	- / 1497	- / 653	- / 2150	- / 395	- / 304	400

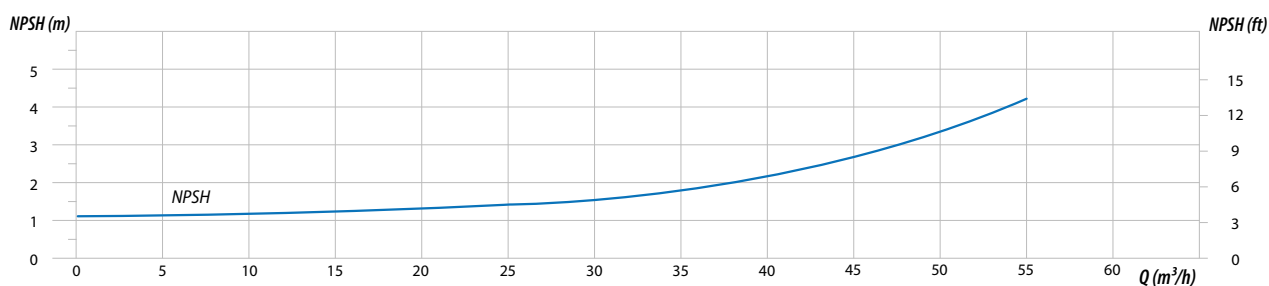
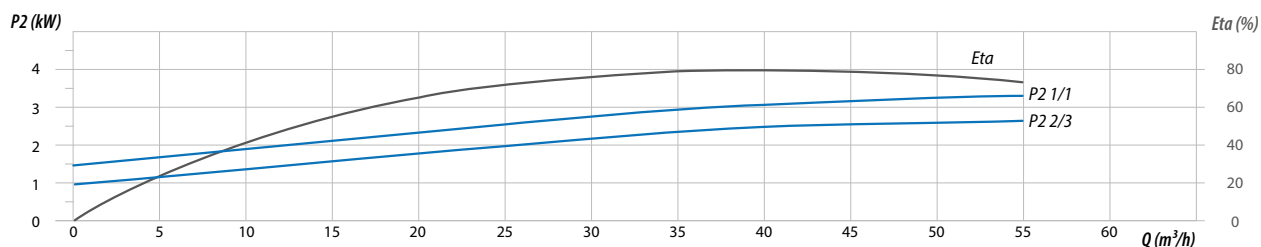
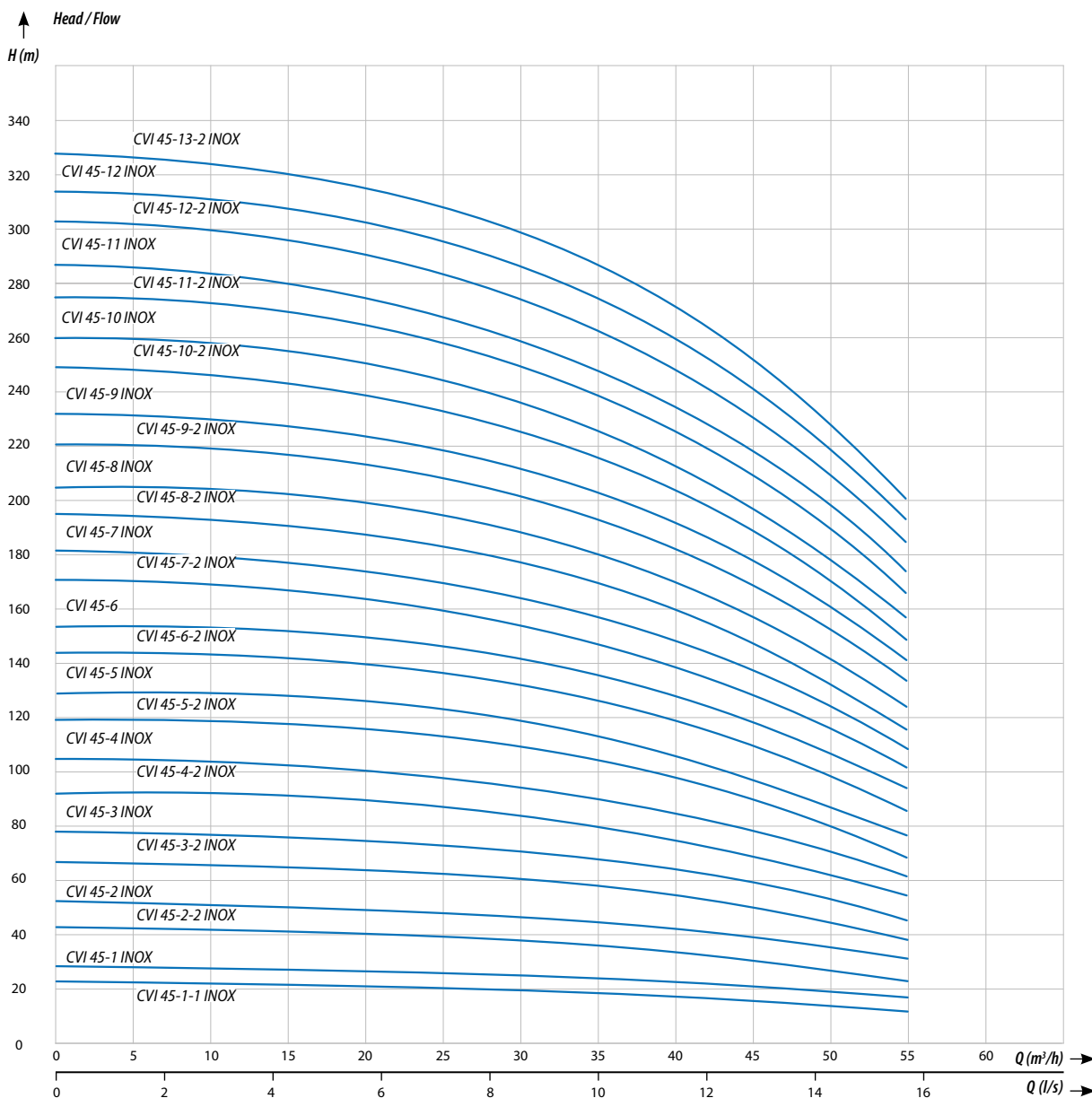
Model	Power (kW)	Flow rate (m³/h)	12	16	20	24	28	30	32	36	40
CVI 32-1-1 INOX	1,5		14,5	14	13	12	11	10,5	10	9	7
CVI 32-1 INOX	2,2		19	18	16,5	15,5	14,5	14	13	11,5	9,5
CVI 32-2-2 INOX	3		30	28	26	24	22	21	19	16	14
CVI 32-2 INOX	4		36	34	32	30	27	26	24	21	17
CVI 32-3-2 INOX	4		48	45	42	39	36	34	32	27	21
CVI 32-3 INOX	5,5		54	52	49	46	42	39	37	31	25
CVI 32-4-2 INOX	7,5		66	63	59	55	50	47	44	38	29
CVI 32-4 INOX	7,5		72	69	66	62	56	53	50	42	34
CVI 32-5-2 INOX	11		84	80	76	71	64	61	57	48	37
CVI 32-5 INOX	11		91	87	83	78	71	66	62	53	42
CVI 32-6-2 INOX	11		101	97	92	87	79	75	70	59	47
CVI 32-6 INOX	11		109	105	101	95	87	83	77	65	52
CVI 32-7-2 INOX	15		119	115	110	105	96	90	84	71	57
CVI 32-7 INOX	15		127	123	118	112	103	97	91	78	61
CVI 32-8-2 INOX	15		136	132	127	120	110	104	97	82	66
CVI 32-8 INOX	15		143	139	134	126	117	111	104	88	70
CVI 32-9-2 INOX	18,5		153	149	144	137	126	119	112	95	75
CVI 32-9 INOX	18,5		161	157	152	145	134	126	119	102	80
CVI 32-10-2 INOX	18,5		172	168	162	154	143	135	127	108	84
CVI 32-10 INOX	18,5		179	174	169	162	149	142	134	114	88
CVI 32-11-2 INOX	22		189	184	178	170	158	149	141	120	93
CVI 32-11 INOX	22		197	192	186	178	165	157	148	126	97
CVI 32-12-2 INOX	22		207	202	196	187	174	165	155	132	102
CVI 32-12 INOX	22		214	210	203	194	180	171	161	137	107
CVI 32-13-2 INOX	30		225	220	213	203	188	179	169	143	112
CVI 32-13 INOX	30		232	227	220	210	197	187	177	150	118
CVI 32-14-2 INOX	30		243	238	230	220	206	197	185	156	124
CVI 32-14 INOX	30		250	245	237	227	212	203	192	163	130

H (m)

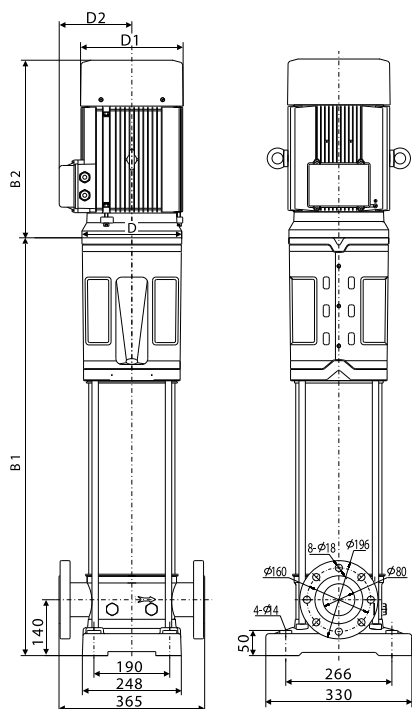
CVI 45 INOX



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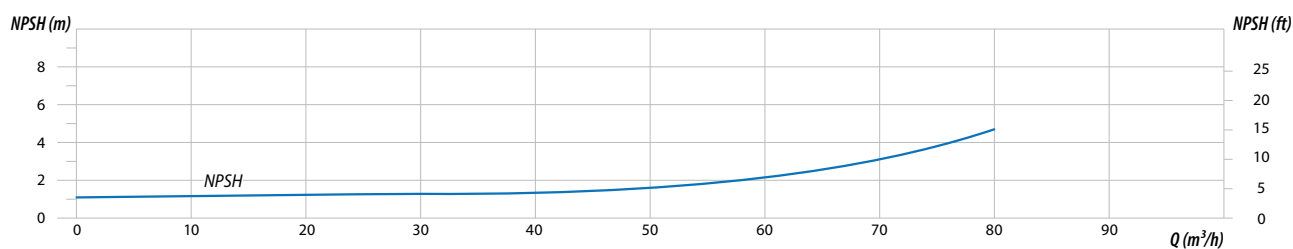
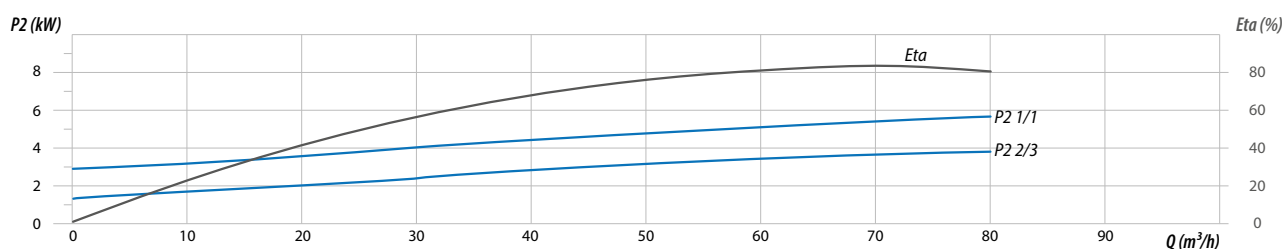
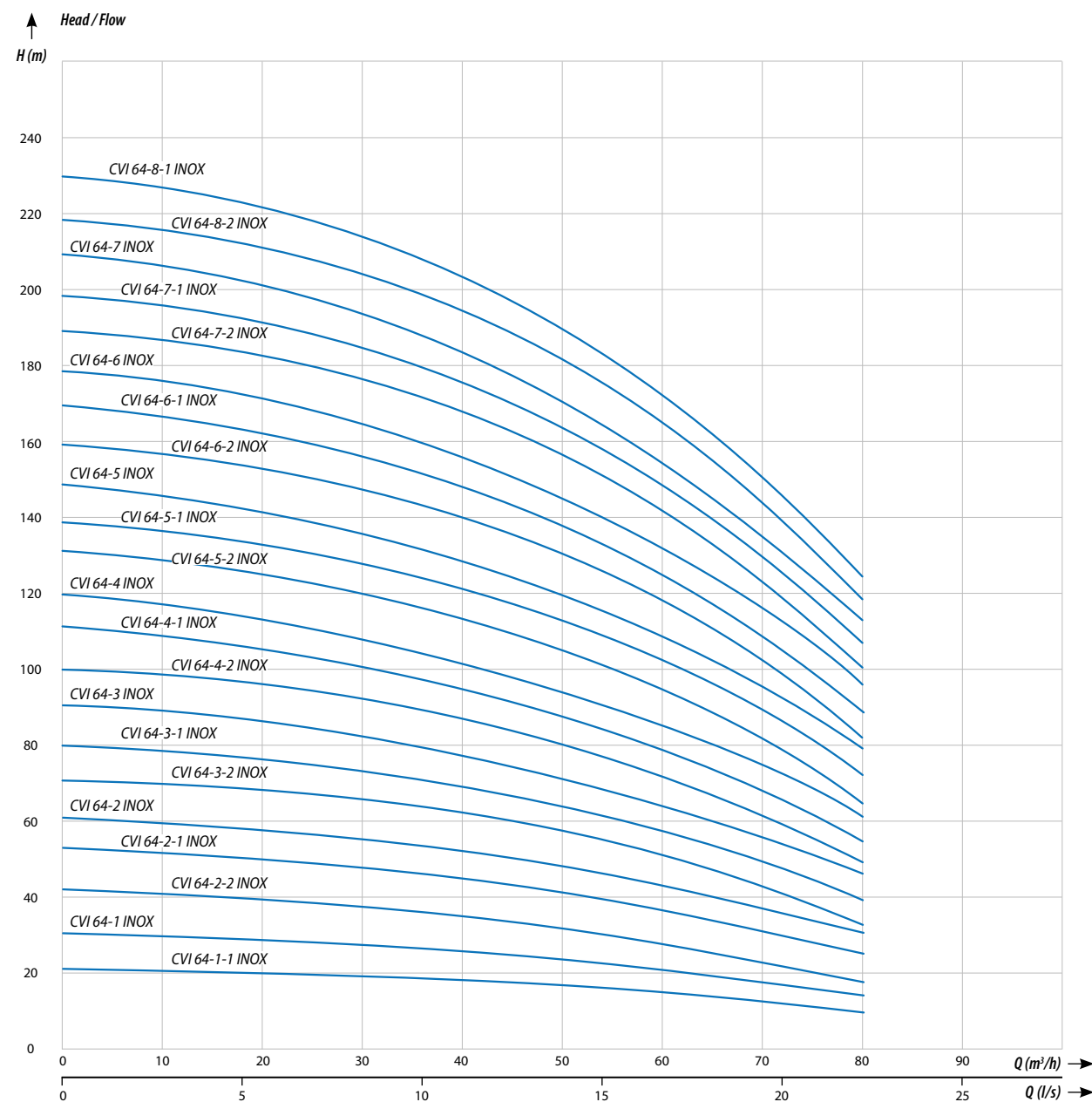
CVI 45 INOX cont.



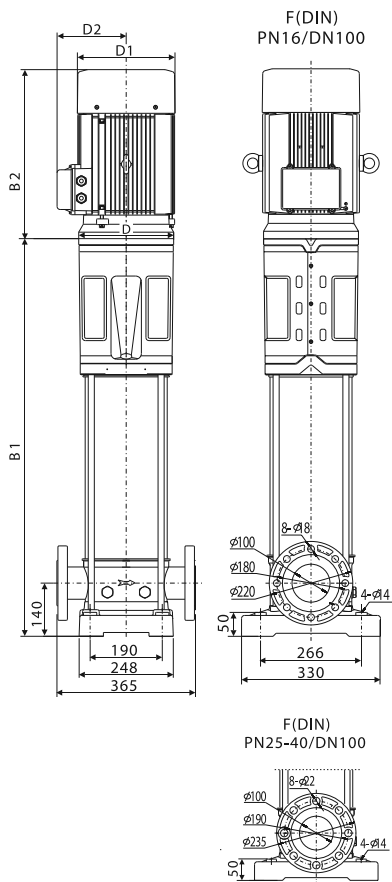
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 45-1-1 INOX	475	300	775	168	127	86
CVI 45-1 INOX	475	323	798	200	146	86
CVI 45-2-2 INOX	663	379	1042	212	162	102
CVI 45-2 INOX	663	417	1080	212	162	102
CVI 45-3-2 INOX	801	448	1249	255	178	175
CVI 45-3 INOX	801	448	1249	255	178	175
CVI 45-4-2 INOX	881	489	1370	255	178	187
CVI 45-4 INOX	881	489	1370	255	178	187
CVI 45-5-2 INOX	961	542	1503	313	257	208
CVI 45-5 INOX	961	542	1503	313	257	208
CVI 45-6-2 INOX	1041	580	1621	356	270	251
CVI 45-6 INOX	1041	580	1621	356	270	251
CVI 45-7-2 INOX	1121	653	1774	395	304	315
CVI 45-7 INOX	1121	653	1774	395	304	315
CVI 45-8-2 INOX	1201	653	1854	395	304	319
CVI 45-8 INOX	1201	653	1854	395	304	319
CVI 45-9-2 INOX	1281	653	1934	395	304	323
CVI 45-9 INOX	1281	653	1934	395	304	323
CVI 45-10-2 INOX	1361	653	2014	395	304	347
CVI 45-10 INOX	1361	653	2014	395	304	347
CVI 45-11-2 INOX	1441	700	2141	470	345	413
CVI 45-11 INOX	1441	700	2141	470	345	413
CVI 45-12-2 INOX	1521	700	2221	470	345	417
CVI 45-12 INOX	1521	700	2221	470	345	417
CVI 45-13-2 INOX	1601	700	2301	470	345	421

Model	Power (kW)	Flow rate (m³/h)	25	30	35	40	45	50	55
CVI 45-1-1 INOX	3		20	19	18	17	15	13	11
CVI 45-1 INOX	4		24	23	22	21	19	18	16
CVI 45-2-2 INOX	5,5		40	38	36	33	30	27	23
CVI 45-2 INOX	7,5		48	46	44	42	39	35	31
CVI 45-3-2 INOX	11		63	61	58	54	50	44	38
CVI 45-3 INOX	11		72	70	67	63	58	53	45
CVI 45-4-2 INOX	15		87	84	80	75	69	62	54
CVI 45-4 INOX	15		98	94	87	84	77	70	61
CVI 45-5-2 INOX	18,5		113	108	102	96	88	80	69
CVI 45-5 INOX	18,5		123	118	112	105	97	88	77
CVI 45-6-2 INOX	22		137	132	125	118	109	98	86
CVI 45-6 INOX	22		147	141	135	127	118	107	94
CVI 45-7-2 INOX	30	H (m)	160	154	147	139	128	116	101
CVI 45-7 INOX	30		169	164	156	147	136	124	109
CVI 45-8-2 INOX	30		184	178	169	160	147	132	116
CVI 45-8 INOX	30		194	189	180	168	155	141	124
CVI 45-9-2 INOX	30		209	202	193	182	169	152	133
CVI 45-9 INOX	37		219	212	203	191	177	161	141
CVI 45-10-2 INOX	37		233	225	215	203	188	170	148
CVI 45-10 INOX	37		245	236	225	212	196	179	156
CVI 45-11-2 INOX	45		259	250	239	226	209	191	166
CVI 45-11 INOX	45		267	259	248	235	217	198	174
CVI 45-12-2 INOX	45		284	274	263	248	230	209	183
CVI 45-12 INOX	45		295	286	273	259	239	219	192
CVI 45-13-2 INOX	45		309	300	286	270	250	227	199

CVI 64 INOX



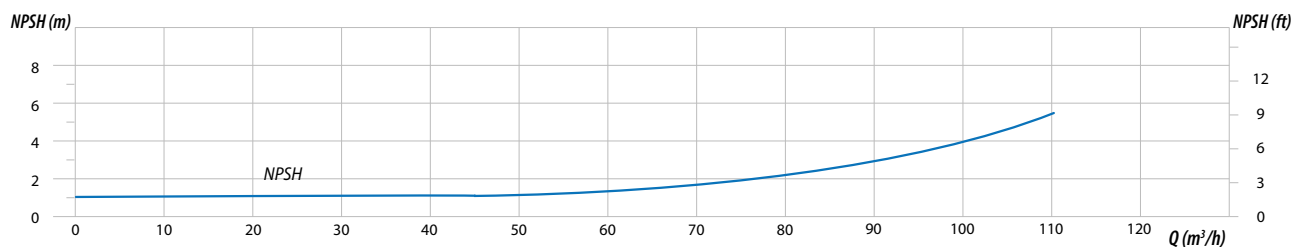
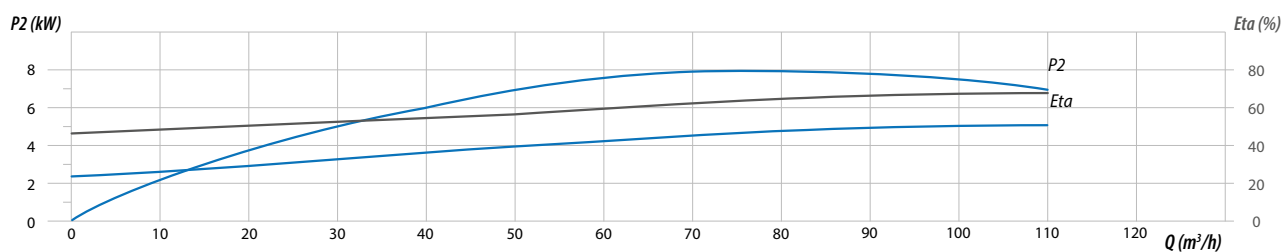
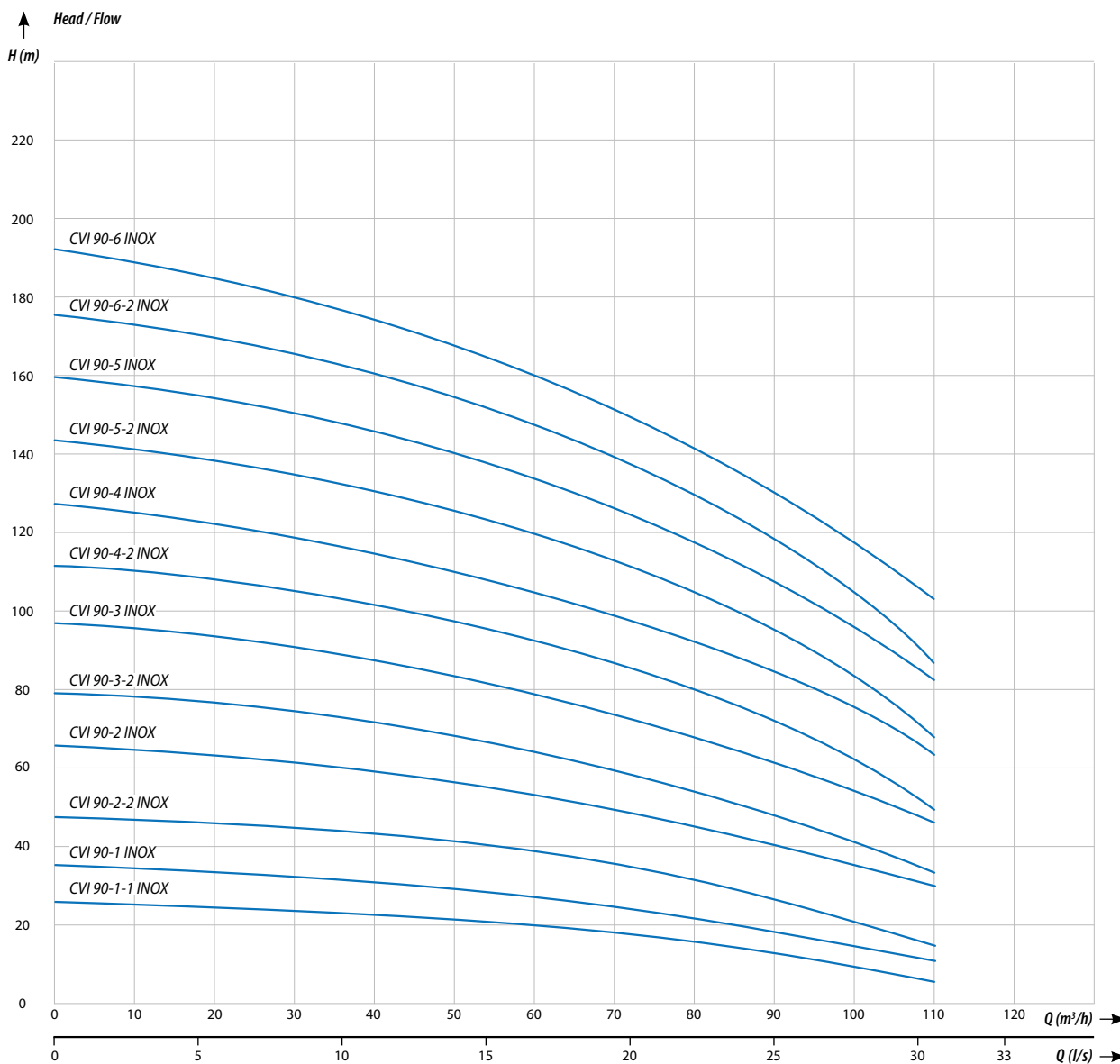
CVI 64 INOX cont.



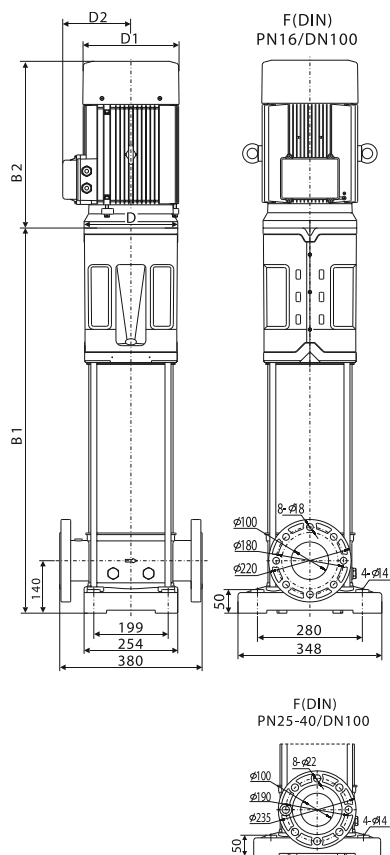
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 64-1-1 INOX	475	323	798	200	146	105
CVI 64-1 INOX	475	379	854	212	162	110
CVI 64-2-2 INOX	663	417	1080	212	162	120
CVI 64-2-1 INOX	663	448	1111	255	178	155
CVI 64-2 INOX	721	448	1169	255	178	155
CVI 64-3-2 INOX	801	489	1290	255	178	195
CVI 64-3-1 INOX	801	489	1290	255	178	195
CVI 64-3 INOX	801	542	1343	313	257	205
CVI 64-4-2 INOX	881	542	1423	313	257	208
CVI 64-4-1 INOX	881	580	1461	356	270	260
CVI 64-4 INOX	881	580	1461	356	270	260
CVI 64-5-2 INOX	961	650	1614	395	304	345
CVI 64-5-1 INOX	961	650	1614	395	304	345
CVI 64-5 INOX	961	650	1614	395	304	345
CVI 64-6-2 INOX	1041	650	1694	395	304	350
CVI 64-6-1 INOX	1041	650	1694	395	304	370
CVI 64-6INOX	1041	650	1694	395	304	370
CVI 64-7-2 INOX	1121	650	1774	395	304	375
CVI 64-7-1INOX	1121	650	1774	395	304	375
CVI 64-7INOX	1121	700	1821	470	345	435
CVI 64-8-2 INOX	1201	700	1901	470	345	440
CVI 64-8-1 INOX	1201	700	1901	470	345	440

Model	Power (kW)	Flow rate (m³/h)	30	40	50	60	64	70	80
CVI 64-1-1 INOX	4	H (m)	19	18	16	14	13	11,5	9
CVI 64-1 INOX	5,5		27	25	23	20	19	17	14
CVI 64-2-2 INOX	7,5		37	35	32	28	26	23	17
CVI 64-2-1 INOX	11		47	44	40	36	34	30	24
CVI 64-2 INOX	11		55	51	47	42	40	37	30
CVI 64-3-2 INOX	15		66	62	56	50	46	41	32
CVI 64-3-1 INOX	15		73	69	63	56	53	48	39
CVI 64-3 INOX	18,5		81	76	70	64	60	55	46
CVI 64-4-2 INOX	18,5		92	87	80	71	66	60	49
CVI 64-4-1 INOX	22		100	94	87	78	73	67	54
CVI 64-4 INOX	22		107	101	94	85	80	74	61
CVI 64-5-2 INOX	30		119	113	105	95	89	80	64
CVI 64-5-1 INOX	30		128	121	112	102	96	87	71
CVI 64-5 INOX	30		136	129	119	109	103	94	78
CVI 64-6-2 INOX	30		147	140	130	118	112	101	81
CVI 64-6-1 INOX	37		157	149	138	125	118	108	88
CVI 64-6INOX	37		164	156	145	132	125	115	95
CVI 64-7-2 INOX	37		176	167	156	140	133	121	99
CVI 64-7-1INOX	37		185	176	163	147	140	128	106
CVI 64-7INOX	45		193	183	170	155	147	135	112
CVI 64-8-2 INOX	45	204	194	181	164	155	142	116	
CVI 64-8-1 INOX	45	214	203	189	170	162	149	123	

CVI 90 INOX



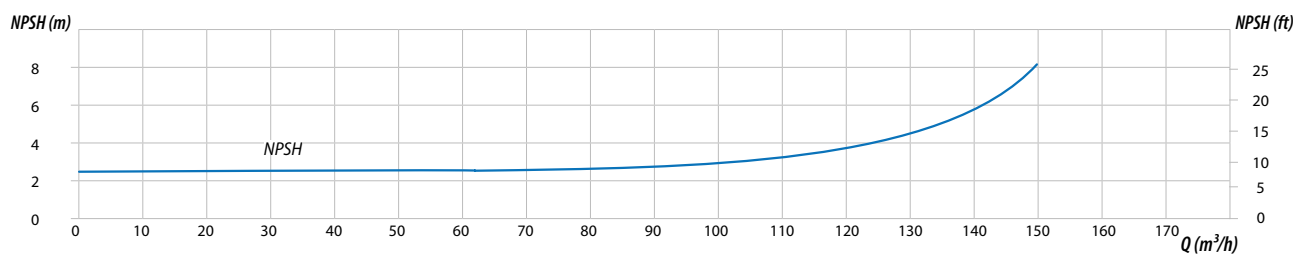
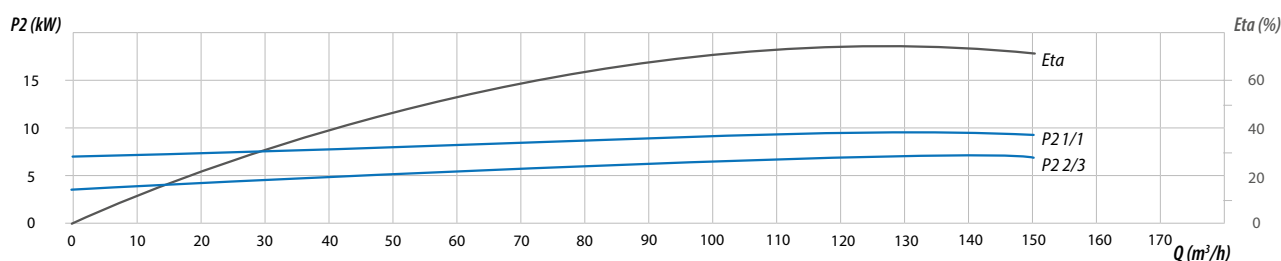
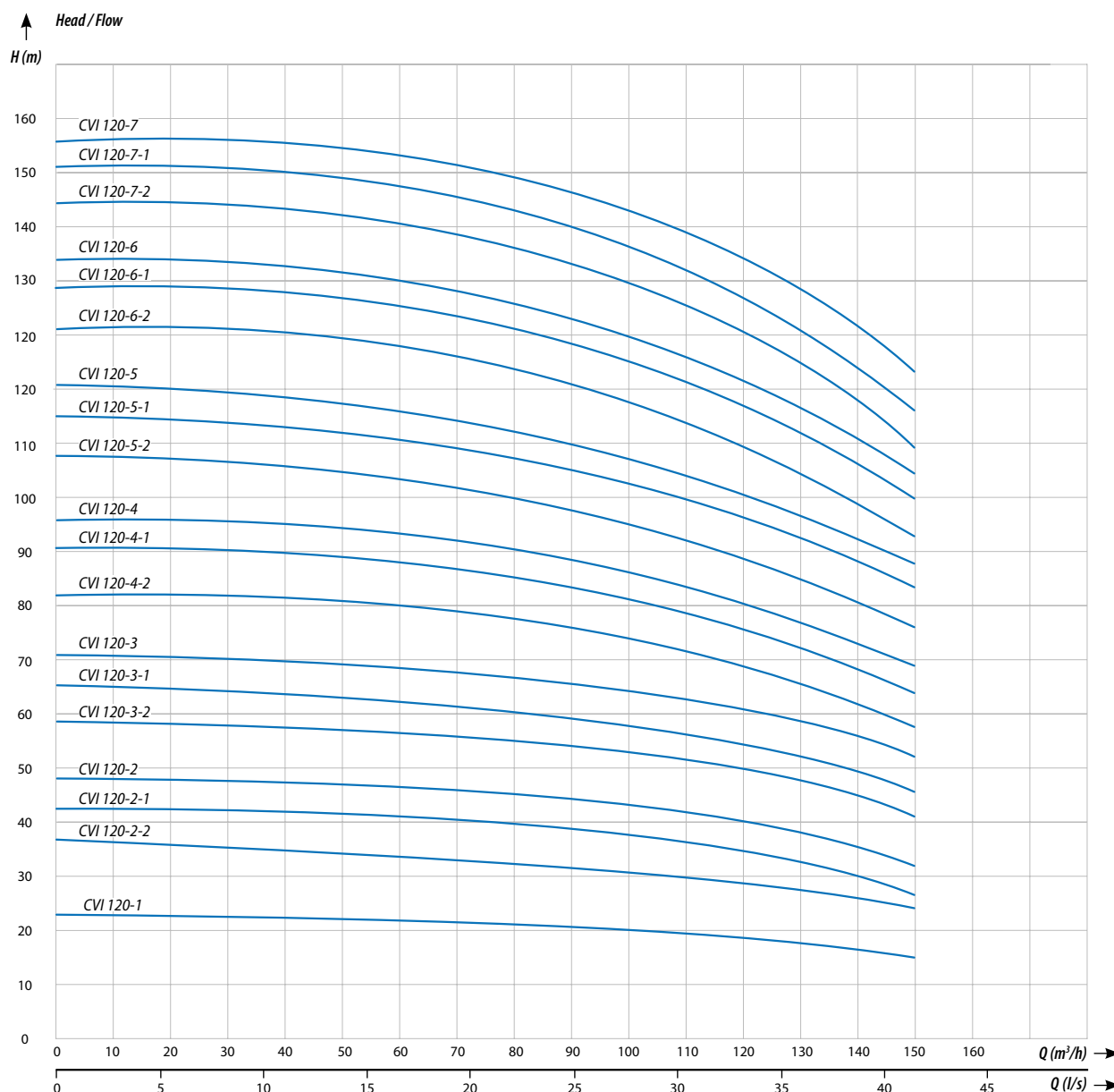
CVI 90 INOX cont.



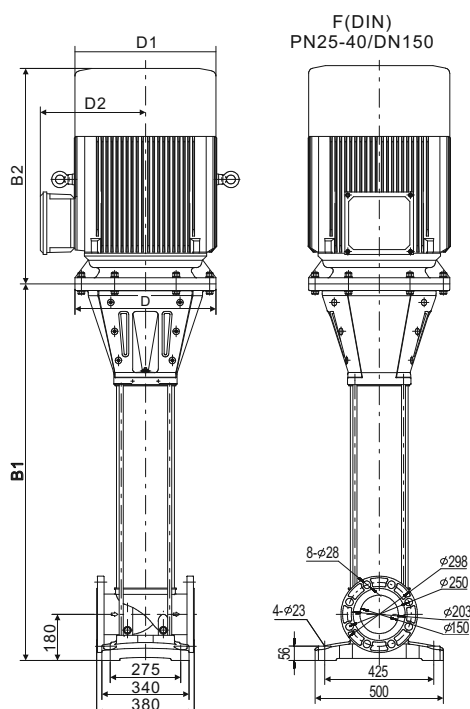
Model	Size (mm)					Weight (kg)
	B1	B2	B1+B2	D1	D2	
CVI 90-1-1 INOX	634	379	1013	212	160	120
CVI 90-1 INOX	634	417	1051	212	160	122
CVI 90-2-2 INOX	756	448	1204	255	178	165
CVI 90-2 INOX	756	489	1245	255	178	198
CVI 90-3-2 INOX	848	542	1390	313	257	212
CVI 90-3 INOX	848	580	1428	356	270	265
CVI 90-4-2 INOX	940	653	1593	395	304	348
CVI 90-4 INOX	940	653	1593	395	304	348
CVI 90-5-2 INOX	1032	653	1685	395	304	375
CVI 90-5 INOX	1032	653	1685	395	304	375
CVI 90-6-2 INOX	1124	700	1824	470	345	438
CVI 90-6 INOX	1124	700	1824	470	345	438

Model	Power (kW)	Flow rate (m³/h)	50	60	70	80	85	90	100	110
CVI 90-1-1 INOX	5,5	H (m)	22	20	18	16	15	13	10	6
CVI 90-1 INOX	7,5		30	27	25	23	21	19	15	11
CVI 90-2-2 INOX	11		41	39	36	32	30	28	22	15
CVI 90-2 INOX	15		56	53	49	45	43	40	35	30
CVI 90-3-2 INOX	18,5		68	65	60	55	52	49	41	33
CVI 90-3 INOX	22		83	79	73	67	64	61	54	47
CVI 90-4-2 INOX	30		98	93	87	80	76	72	62	50
CVI 90-4 INOX	30		110	105	100	92	88	84	75	65
CVI 90-5-2 INOX	37		126	120	113	105	100	95	83	68
CVI 90-5 INOX	37		140	133	126	117	113	107	95	83
CVI 90-6-2 INOX	45		155	148	139	129	124	118	104	87
CVI 90-6 INOX	45		168	160	151	141	135	130	117	103

CVI 120 INOX



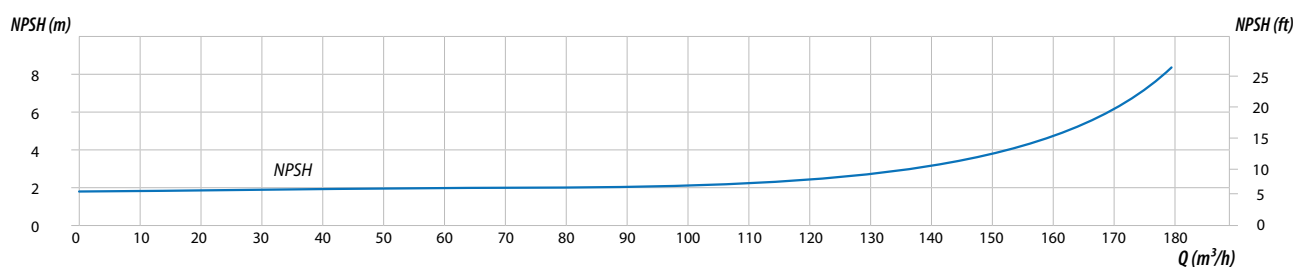
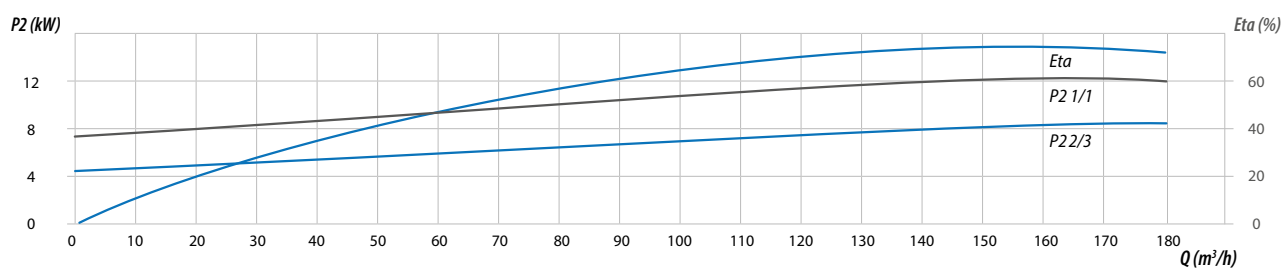
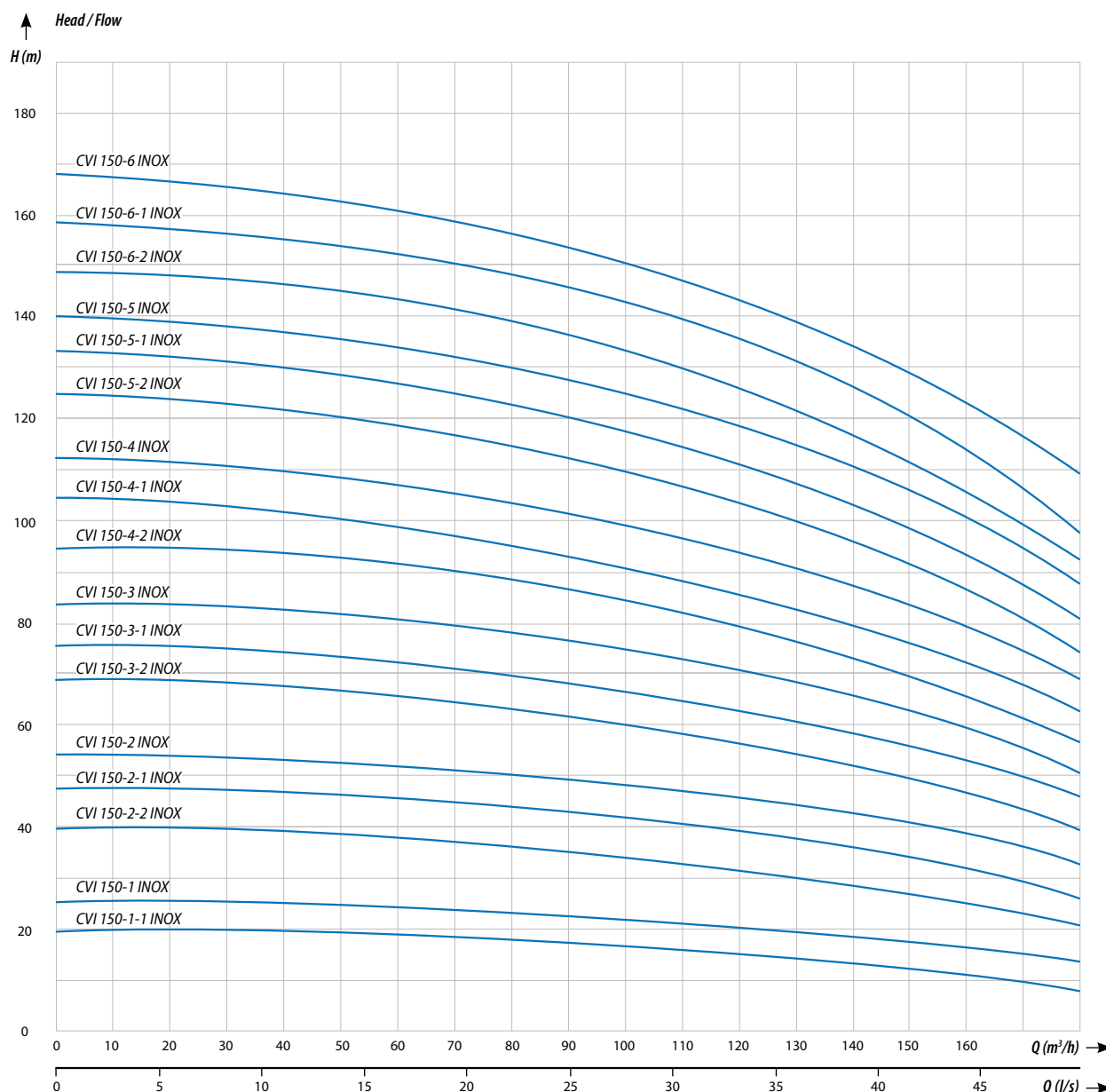
CVI 120 INOX cont.



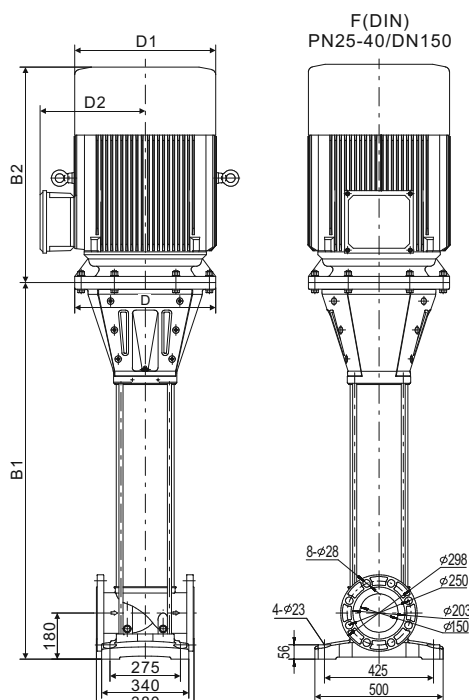
Model	Size (mm)				
	B1	B2	B1+B2	D1	D2
CVI 120-1 INOX	826	448	1274	255	182
CVI 120-2-2 INOX	978	489	1467	255	182
CVI 120-2-1 INOX	978	542	1520	313	257
CVI 120-2 INOX	978	580	1558	356	270
CVI 120-3-2 INOX	1134	653	1787	395	304
CVI 120-3-1 INOX	1134	653	1787	395	304
CVI 120-3 INOX	1134	653	1787	395	304
CVI 120-4-2 INOX	1286	653	1939	395	304
CVI 120-4-1 INOX	1286	653	1939	395	304
CVI 120-4 INOX	1286	702	1988	450	340
CVI 120-5-2 INOX	1438	702	2140	450	340
CVI 120-5-1 INOX	1438	702	2140	450	340
CVI 120-5 INOX	1438	702	2240	490	370
CVI 120-6-2 INOX	1620	702	2392	490	370
CVI 120-6-1 INOX	1620	702	2392	490	370
CVI 120-6 INOX	1620	840	2612	550	410
CVI 120-7-2 INOX	1772	840	2612	550	410
CVI 120-7-1 INOX	1772	840	2612	550	410
CVI 120-7 INOX	1772	840	2612	550	410

Model	Power (kW)	Flow rate (m³/h)	60	70	80	90	100	110	120	130	140	150
CVI 120-1 INOX	11		22	21,5	21,6	21	20,5	19,5	19	17	16	15
CVI 120-2-2 INOX	15		34	33,5	33	31	30,2	30	29	27	25	24
CVI 120-2-1 INOX	18,5		41	40	39,5	38,5	37	36,5	35	32,5	30	27,5
CVI 120-2 INOX	22		46	45	44,5	43,5	42,4	41	40	38	36	33,5
CVI 120-3-2 INOX	30		57	56	55	53,5	52	51	49	46,5	43,5	41
CVI 120-3-1 INOX	30		64	63	62	60	58,5	57,5	56	52	49	46
CVI 120-3 INOX	30		69,5	68,5	67,5	66	64,5	62,5	61	57,5	54,5	51
CVI 120-4-2 INOX	37		80,5	79	78	76	73,5	72	69	66	61,5	58
CVI 120-4-1 INOX	37		87	86	84,5	82	80	78	76	72	68	64,5
CVI 120-4 INOX	45	H (m)	92,5	91	90	88	85,5	83	81	77	73	68,5
CVI 120-5-2 INOX	45		104,5	103	101	99	96	93	90	85,5	80,5	75,5
CVI 120-5-1 INOX	45		110,5	109	107,5	105	102	100	97	92	86,5	83
CVI 120-5 INOX	55		115,5	114	113	110	107,5	104,5	102	96	91	86
CVI 120-6-2 INOX	55		128	125,5	123	121	117,5	113,5	110	104,5	98,5	92,5
CVI 120-6-1 INOX	55		134	132	130,5	127	124	121	118	111	105	100
CVI 120-6 INOX	75		139	137	135	132	128,5	126	123	116	110	104
CVI 120-7-2 INOX	75		151	148	145,5	143	138,5	134	130	123,5	116,5	109
CVI 120-7-1 INOX	75		156,5	154	152	148,5	144,5	141	138	130	123	116,5
CVI 120-7 INOX	75		162,5	160,5	158,5	155	151	148	145	137	129	123

CVI 150 INOX



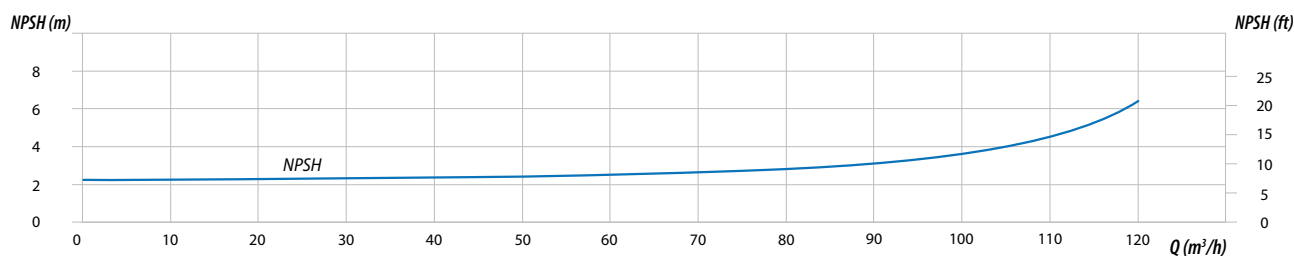
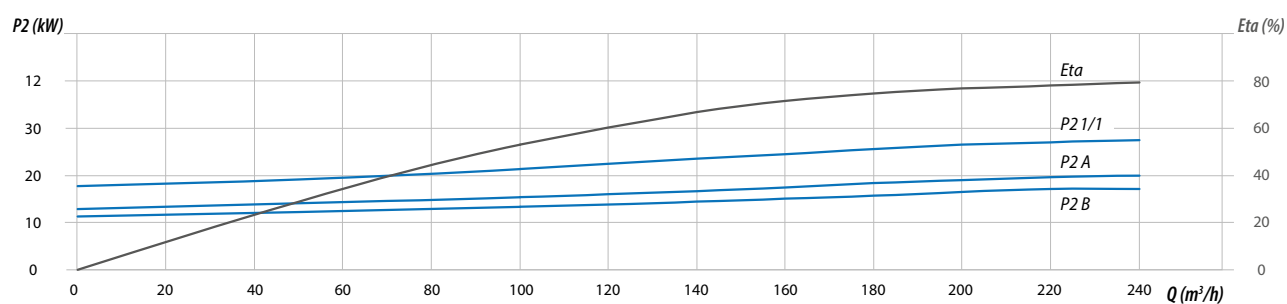
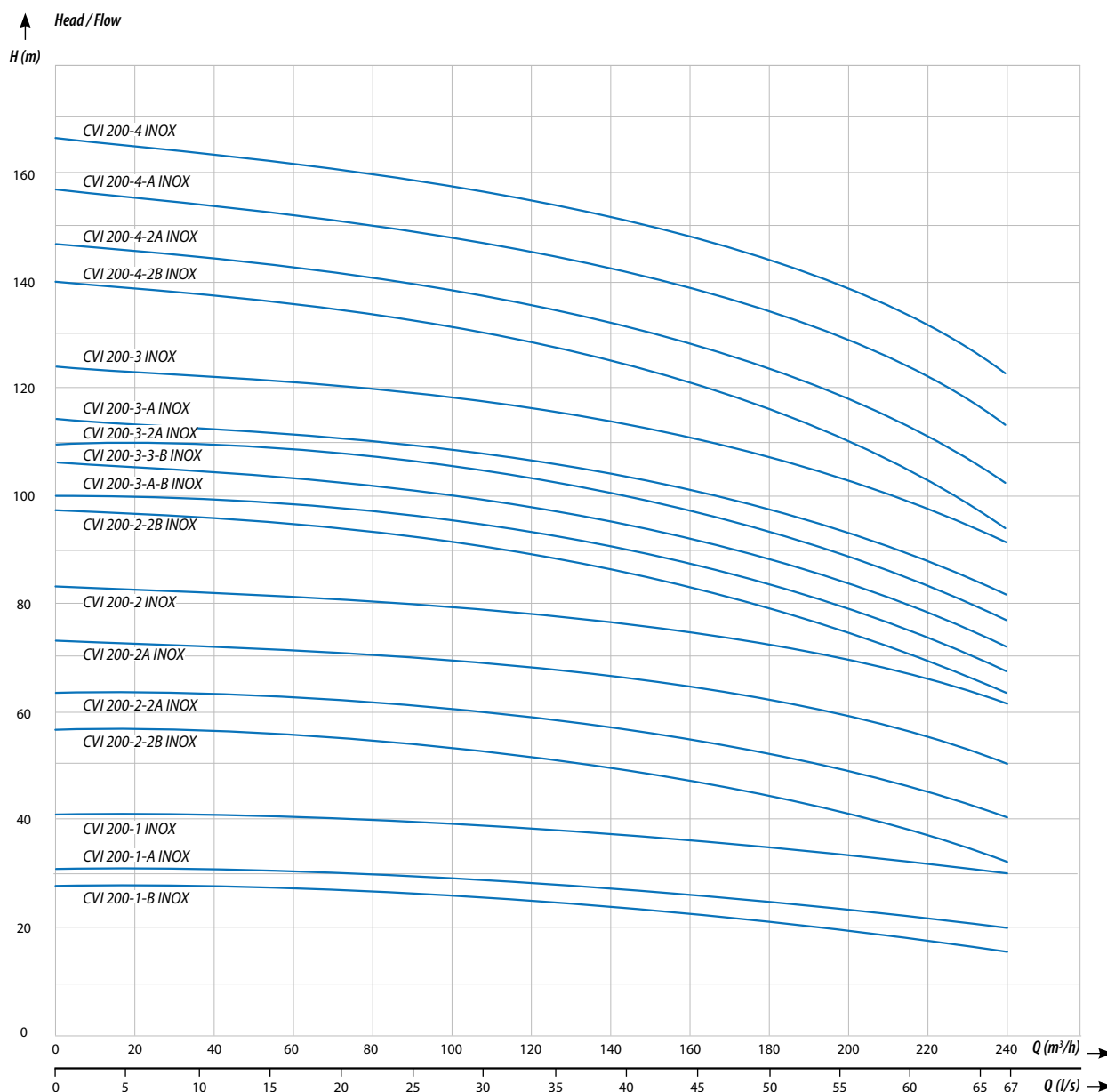
CVI 150 INOX cont.



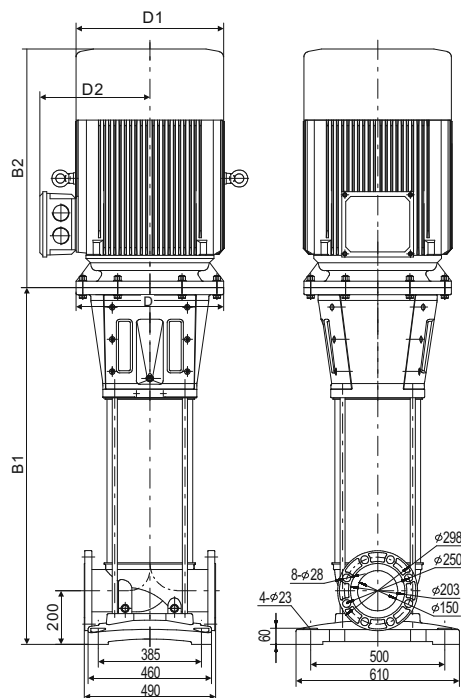
Model	Size (mm)				
	B1	B2	B1+B2	D1	D2
CVI 150-1-1 INOX	826	448	1274	255	182
CVI 150-1 INOX	826	489	1315	255	182
CVI 150-2-2 INOX	978	542	1520	313	257
CVI 150-2-1 INOX	978	580	1558	356	270
CVI 150-2 INOX	982	653	1635	395	304
CVI 150-3-2 INOX	1134	653	1787	395	304
CVI 150-3-1 INOX	1134	653	1787	395	304
CVI 150-3 INOX	1134	653	1787	395	304
CVI 150-4-2 INOX	1286	702	1988	450	340
CVI 150-4-1 INOX	1286	702	1988	450	340
CVI 150-4 INOX	1316	772	2088	490	370
CVI 150-5-2 INOX	1468	772	2240	490	370
CVI 150-5-1 INOX	1468	840	2308	550	410
CVI 150-5 INOX	1468	840	2308	550	410
CVI 150-6-2 INOX	1620	840	2460	550	410
CVI 150-6-1 INOX	1620	840	2460	550	410
CVI 150-6 INOX	1620	840	2460	550	410

Model	Power (kW)	Flow rate (m³/h)	80	90	100	110	120	130	140	150	160	170	180
CVI 150-1-1 INOX	11	H (m)	18,3	17,8	17,3	17	16	15	14	13	11	10	8,5
CVI 150-1 INOX	15		24	23	22,5	22	21,5	20,5	20	19	17	16	15
CVI 150-2-2 INOX	18,5		37	35,5	34	33	32	31	29	28	26	23	21
CVI 150-2-1 INOX	22		44,5	43	42	40	39	38,5	37,5	35	33	30	27
CVI 150-2 INOX	30		50	49	48	47	45,5	44	42	40	37	34	32
CVI 150-3-2 INOX	30		63,5	61	59	57,5	56	54,5	53	49	45,5	42	39
CVI 150-3-1 INOX	37		70	68	67	65	63	62	60	56	53	49	45
CVI 150-3 INOX	37		78	76,5	75	73	70,5	68	66	63	59	55	50,5
CVI 150-4-2 INOX	45		89	87	84	81,5	79	77	74,5	71	65,5	60	56
CVI 150-4-1 INOX	45		96,5	94	91,5	89	86,5	84	81,5	77	72,5	67	62
CVI 150-4 INOX	55		104	102	100	97	95	91	88	84	79,5	74	68
CVI 150-5-2 INOX	55		115,5	112	109	106	102,5	100	97	92	86	79	73,5
CVI 150-5-1 INOX	75		122,5	119,5	117	113,5	111,5	107,5	104,5	99	93,5	87	80
CVI 150-5 INOX	75		130	127,5	125	121	119	115	111,5	107	101	94,5	86,5
CVI 150-6-2 INOX	75		140	137	133	130	126	121	118	112	106	98	91
CVI 150-6-1 INOX	75		148,5	145	141,5	137,5	135	131	127	121	114,5	106,5	97,5
CVI 150-6 INOX	75		157	153	149	145	142	139,5	137	130	123,5	116	109

CVI 200 INOX



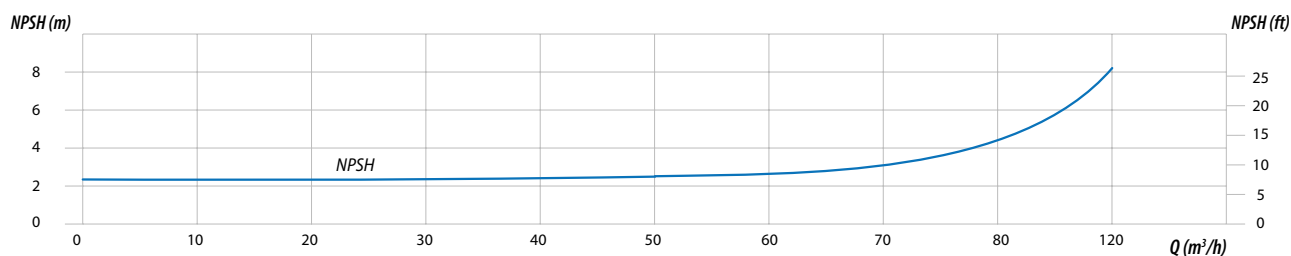
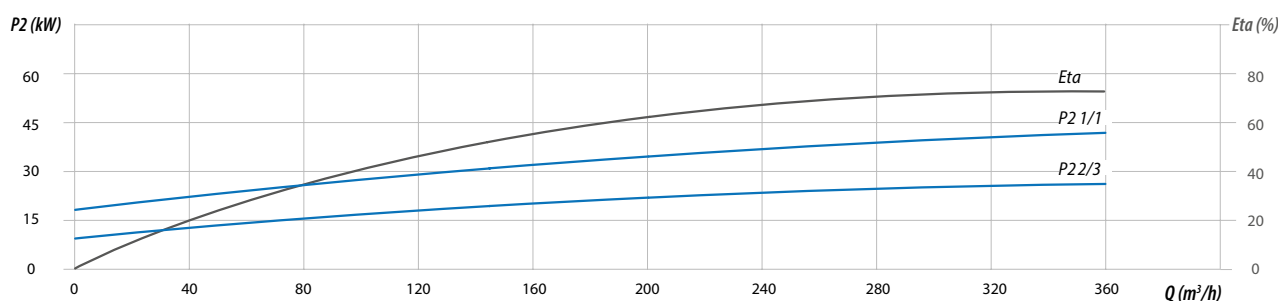
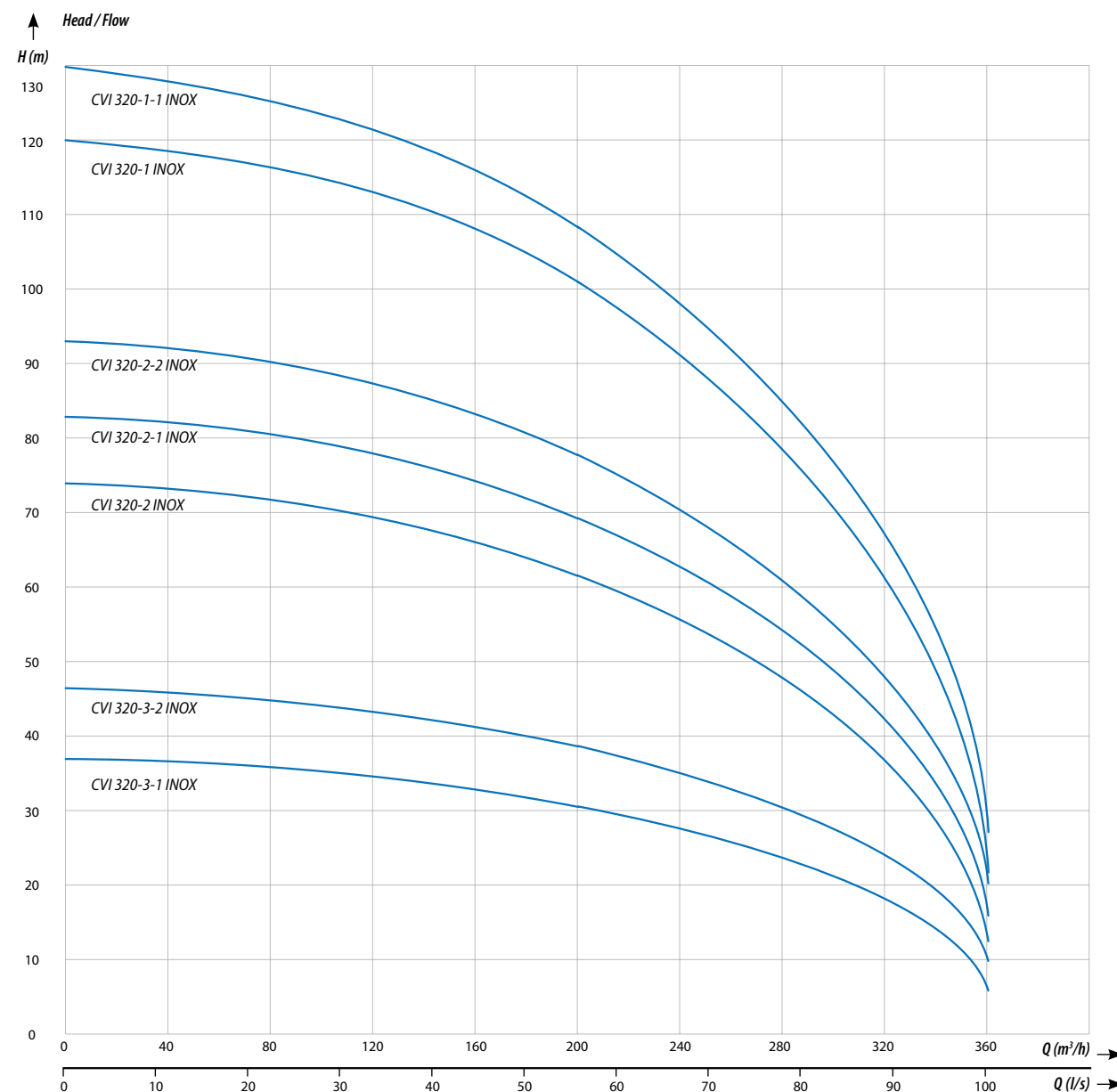
CVI 200 INOX cont.



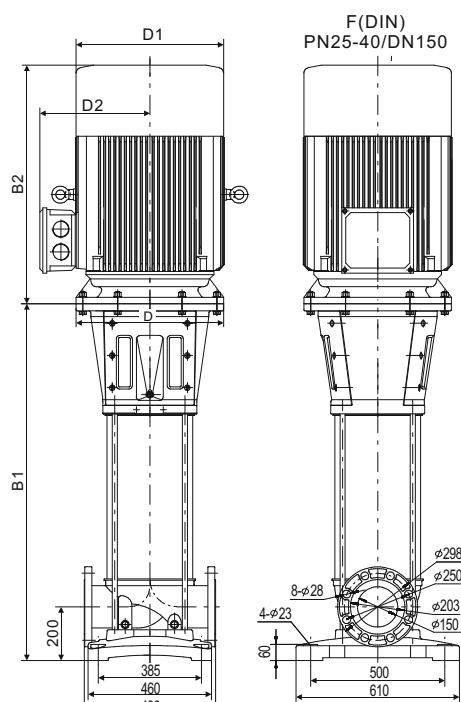
Model	Size (mm)				
	B1	B2	B1+B2	D1	D2
CVI 200-1-B INOX	912	542	1454	313	257
CVI 200-1-A INOX	912	580	1492	356	270
CVI 200-1 INOX	912	653	1565	395	304
CVI 200-2-2B INOX	1106	653	1759	395	304
CVI 200-2-2A INOX	1136	702	1838	450	340
CVI 200-2-A INOX	1136	772	1908	490	370
CVI 200-2 INOX	1136	772	2170	490	370
CVI 200-3-2B INOX	1330	840	2170	550	410
CVI 200-3-A-B INOX	1330	840	2170	550	410
CVI 200-3-2A INOX	1330	840	2170	550	410
CVI 200-3-B INOX	1330	840	2170	550	410
CVI 200-3-A INOX	1330	840	2170	550	410
CVI 200-3 INOX	1330	890	2220	550	410
CVI 200-4-2B INOX	1524	890	2414	550	410
CVI 200-4-2A INOX	1524	1140	2664	645	540
CVI 200-4-A INOX	1524	1140	2664	645	540
CVI 200-4 INOX	1524	1140	2664	645	540

Model	Power (kW)	Flow rate (m³/h)	100	120	140	160	180	200	220	240
CVI 200-1-B INOX	18,5	H (m)	25,5	25	24	23	21,5	20	18	15,5
CVI 200-1-A INOX	22		29	28,5	27,5	26,5	25,5	24	22	20
CVI 200-1 INOX	30		38,5	38	37,5	36,5	35	34	32,5	30
CVI 200-2-2B INOX	37		53	51	49	47	44	41	37	32
CVI 200-2-2A INOX	45		59,5	58,5	56	54	52,5	49	44,5	40,5
CVI 200-2-A INOX	55		69	68	66	64	62	59	55,5	51
CVI 200-2 INOX	55		78,5	77,5	76	74	71,5	69	66	61,5
CVI 200-3-2B INOX	75		91,5	89	86,5	83,5	79	75	70	63
CVI 200-3-A-B INOX	75		95	93	90	87	83,5	79	73,5	67
CVI 200-3-2A INOX	75		99,5	97,5	94,5	91,5	89	84	78,5	72
CVI 200-3-B INOX	75		104,5	102,5	100	97	93	89	84,5	77,5
CVI 200-3-A INOX	75		108	106	103,5	100,5	97,5	93	88	81,5
CVI 200-3 INOX	90		117,5	116	113,5	110,5	107	103	99	92
CVI 200-4-2B INOX	90		131,5	129	125,5	121	115v	110	103,5	94
CVI 200-4-2A INOX	110		138,5	136	132	128	124	118	111	102,5
CVI 200-4-A INOX	110		148	145,5	142,5	138	134	128	122	113
CVI 200-4 INOX	110		157,5	155,5	152,5	148	143,5	138	132,5	123,5

CVI 320 INOX



CVI 320 INOX cont.



Model	Size (mm)				
	B1	B2	B1+B2	D1	D2
CVI 320-1-1 INOX	912	653	1565	395	304
CVI 320-1 INOX	942	702	1644	450	340
CVI 320-2-2 INOX	1136	772	1908	490	370
CVI 320-2-1 INOX	1136	840	1976	550	410
CVI 320-2 INOX	1136	890	2026	550	410
CVI 320-3-2 INOX	1330	1140	2470	645	540
CVI 320-3-1 INOX	1330	1140	2470	645	540

Model	Power (kW)	Flow rate (m³/h)	200	240	260	280	300	320	340	360
CVI 320-1-1 INOX	30	H (m)	31	28	25,5	24	21	18	15	6
CVI 320-1 INOX	45		39	35	32	30	27	24	20	10
CVI 320-2-2 INOX	55		62	56	51	48	42	36	30	12
CVI 320-2-1 INOX	75		70	63	57,5	54	48	42	35	16
CVI 320-2 INOX	90		78	70	64	60	54	48	40	20
CVI 320-3-2 INOX	110		101	91	83	78	69	60	50	22
CVI 320-3-1 INOX	110		109	98	89,5	84	75	66	55	26

CVI INOX cont.

Pump construction

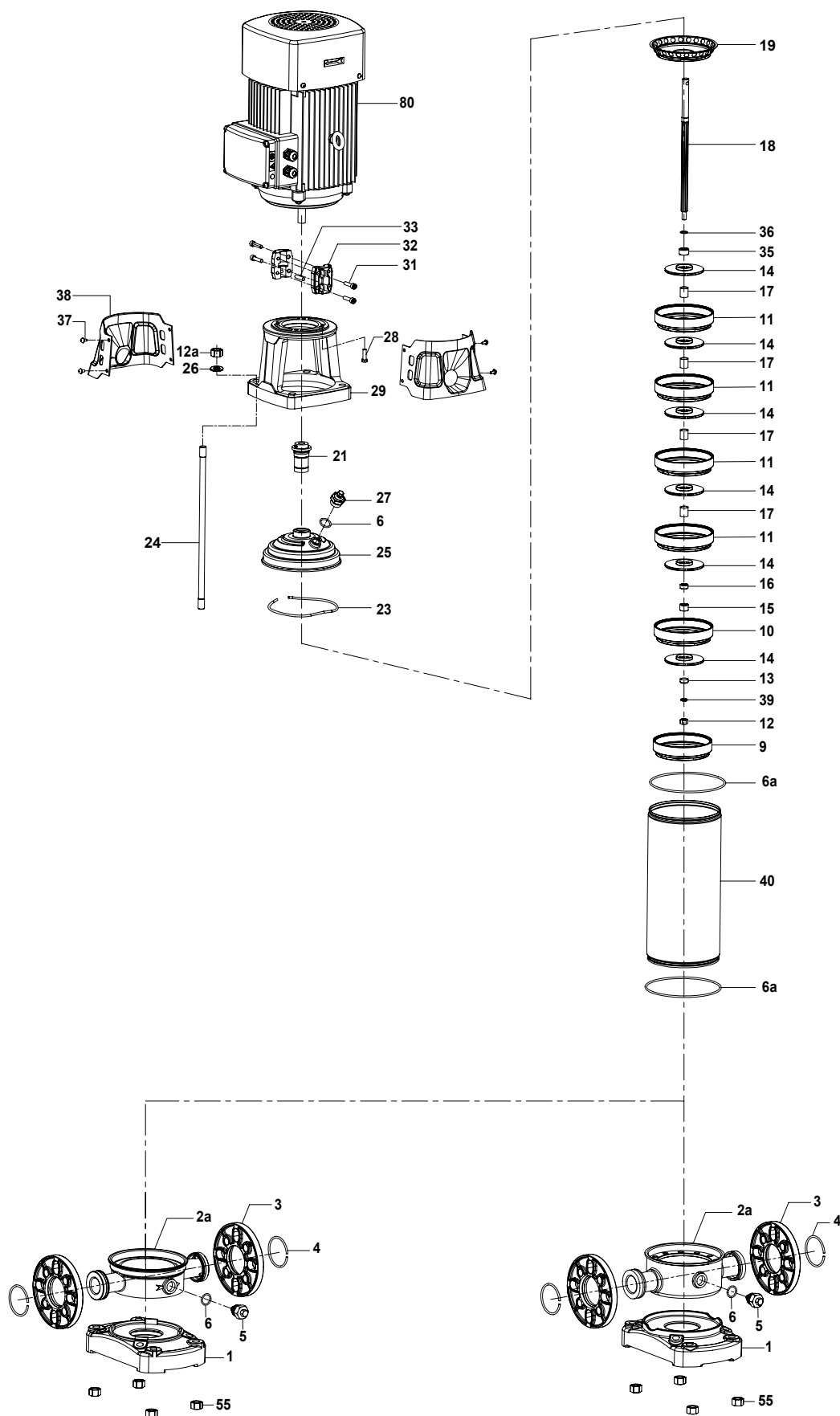
No.	Part	Material
1	Base	Cast iron
2	Pump housing	Cast iron
2a	Pump housing	AISI 304
3	Flange	Cast iron
4	Safety spring ring	AISI 201
5	Drainage	AISI 304
6	O-ring	NBR
6a	O-ring	NBR
6b	O-ring	NBR
7	Seal	PTFE
7a	Seal	PTFE
8	Sealing discs	AISI 304
9	Inlet section	AISI 304
9a	Inlet section	AISI 304
10	Supporting diffuser	AISI 304
10a	Supporting diffuser	AISI 304
11	Diffuser	AISI 304
11a	Diffuser	AISI 304
12	Nut	Zinc
12a	Nut	Zinc
12b	Nut	Zinc
13	Driven impeller sleeve	AISI 304
14	Driven impeller	AISI 304
15	Bearing bushing	Tungsten carbide
15a	Bearing bushing	Tungsten carbide
16	Short sleeve I	AISI 304
16a	Short sleeve II	AISI 304
17	Long sleeve	AISI 304
17a	Long sleeve	AISI 304
18	Stem	AISI 431
19	Outlet section	AISI 304
19a	Outlet section	AISI 304
19b	Outlet section	AISI 304
20	Fixed sealing ring	Carbon
21	Rotary ring	Tungsten carbide
22	Mechanical seal	Carbon/Tungsten carbide/viton
23	Flexible ring	AISI 304
24	Double-side screw	Zinc
25	Pump cover	AISI 304
26	Washer	AISI 304

No.	Part	Material
27	Power plug	AISI 304
28	Bolt	Zinc
28a	Bolt	Zinc
29	Motor frame	HT200
30	Nameplate	Aluminium
31	Threaded bolt	Zinc
31a	Threaded bolt	Zinc
31b	Threaded bolt	Zinc
31c	Threaded bolt	Zinc
31d	Threaded bolt	Zinc
31e	Threaded bolt	Zinc
32	Stem joint	QT450-10
33	Screw	Zinc
34	Nail	H62
35	Collet	AISI 304
36	Clamping ring	AISI 304
37	Screw	AISI 304
38	Joint cover	AISI 304
39	Spring washer	AISI 304
40	External sleeve	AISI 304
41	Cell assembly	AISI 304
42	Motor flange	Cast iron
43	Gasket	NBR
44	Oval sleeve	Cast iron
45	Mounting cover	AISI 304
46	Neck ring	AISI 304
47	Lining	PTFE
48	Support ring	AISI 304
49	Nut	AISI 304
50	Cone	AISI 304
51	Slip ring for driven impeller	AISI 304
52	Clamping sleeve	AISI 304
53	Slip bearing	Tungsten carbide
54	Choke cover	Ingot steel
55	Drainage	AISI 304
56	Driven impeller sleeve	Tungsten carbide + AISI 304
57	Slip bearing	Tungsten carbide
58	Micelle	Viton
80	Motor	AISI 304

CVI INOX cont.

Technical drawing:

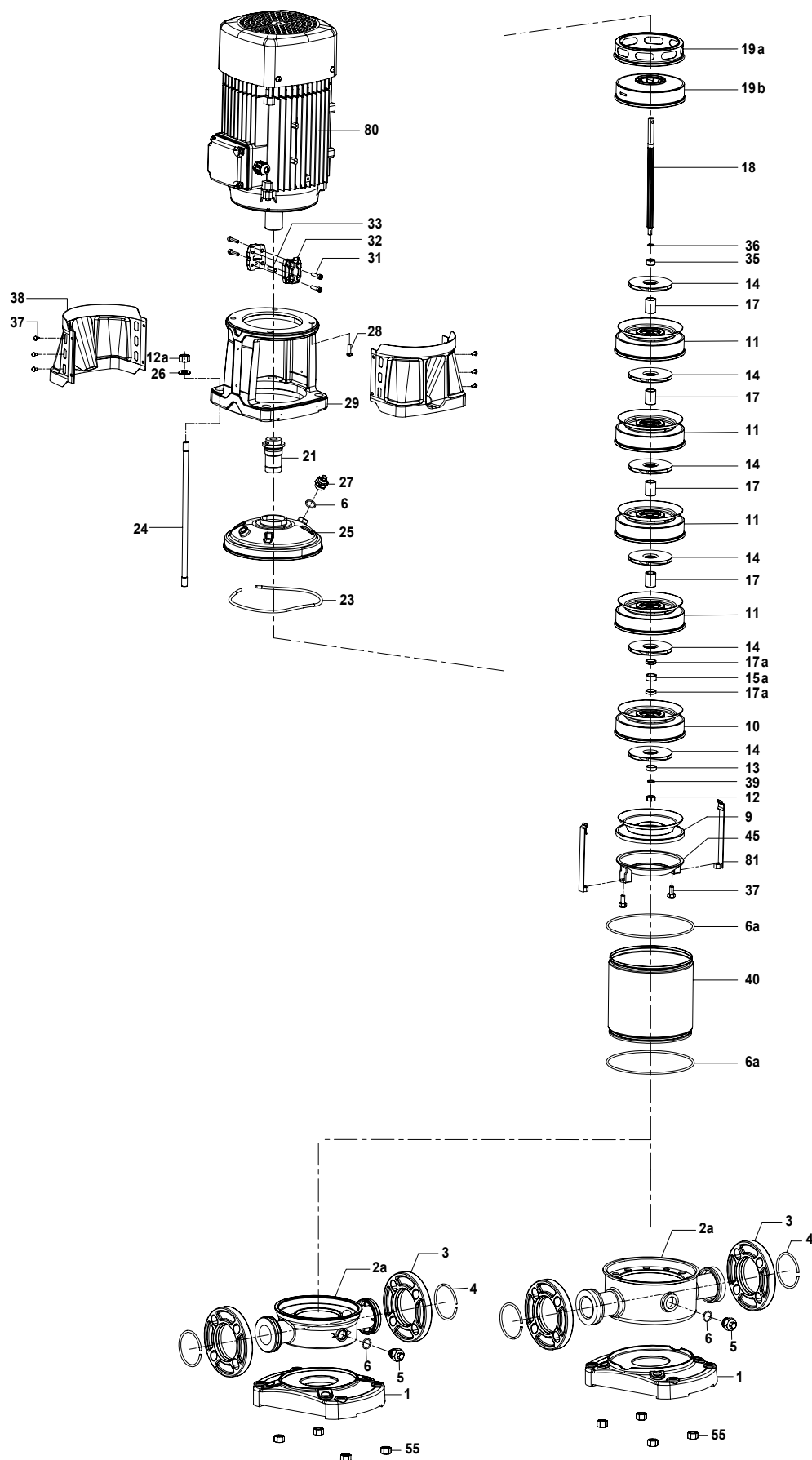
1/2/3/4/5



CVI INOX cont.

Technical drawing:

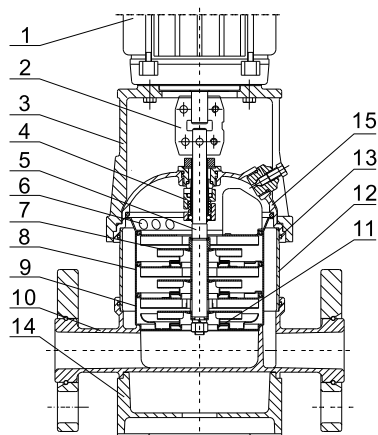
10 / 15 / 20



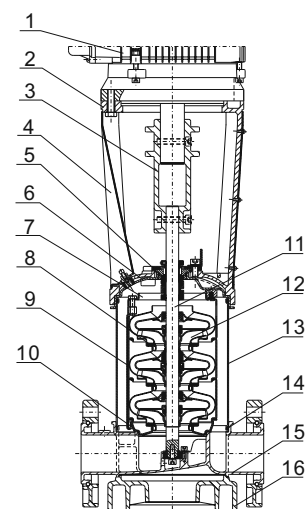
CVI INOX cont.

Technical drawings:

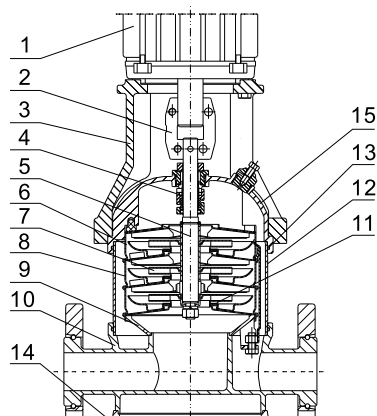
CVI 1 / 2 / 3 / 4 / 5



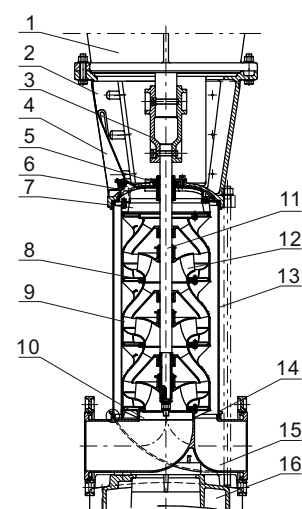
CVI 32 / 45 / 64 / 90



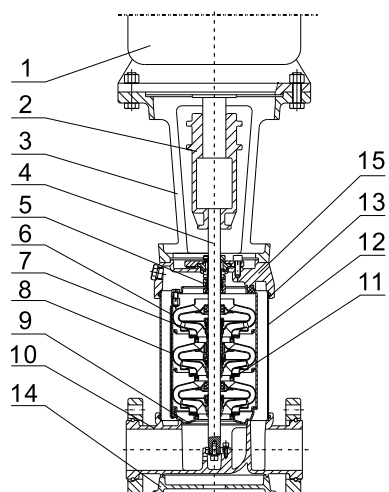
CVI 10 / 15 / 20



CVI 120 / 150 / 200 / 320



CVI 32 / 64 / 90



Pump construction

No.	Part	Material
1	Motor	–
2	Shaft connector	–
3	Pump head	Cast iron ASTM25B
4	Mechanical seal	–
5	Shaft	SS. AISI 431
6	Discharge	SS. AISI 304
7	Impeller	SS. AISI 304
8	Diffuser	SS. AISI 304
9	Inlet	SS. AISI 304
10	Pump body	SS. AISI 304
11	Neck ring	PTFE
12	Discharge port	SS. AISI 304
13	O-ring	EPDM/FKM
14	Pump base	Cast iron ASTM25B
15	Cover	SS. AISI 304

Standard motor				
Power (kW)	Power supply (V)	Current consumption (A)	Power factor cos φ	Efficiency (%)
0,37	230 / Y400	$\triangle 1,7 / Y1$	0,81	73,8
0,55	230 / Y400	$\triangle 2,4 / Y1,4$	0,82	77,8
0,75	230 / Y400	$\triangle 3,2 / Y1,8$	0,82	80,7
1,1	230 / Y400	$\triangle 4,5 / Y2,6$	0,83	82,7
1,5	230 / Y400	$\triangle 6 / Y3,5$	0,84	84,2
2,2	230 / Y400	$\triangle 8,4 / Y4,9$	0,85	85,9
3	230 / Y400	$\triangle 11 / Y6,3$	0,87	87,1
4	400 / Y690	$\triangle 8,2 / Y4,7$	0,88	88,1
5,5	400 / Y690	$\triangle 11,1 / Y6,4$	0,88	89,2
7,5	400 / Y690	$\triangle 14,9 / Y8,6$	0,88	90,1
11	400 / Y690	$\triangle 21,2 / Y12,2$	0,89	91,2
15	400 / Y690	$\triangle 28,6 / Y16,5$	0,89	91,9
18,5	400 / Y690	$\triangle 34,7 / Y20$	0,89	92,4
22	400 / Y690	$\triangle 41 / Y23,6$	0,90	90,5
30	400 / Y690	$\triangle 55,4 / Y31,9$	0,89	91,4
37	400 / Y690	$\triangle 67,9 / Y39,1$	0,90	92
45	400 / Y690	$\triangle 82,1 / Y47,3$	0,90	92,5

Standard motor				
Power (kW)	Power supply (V)	Current consumption (A)	Power factor cos φ	Efficiency (%)
0,75	230 / Y400	$\triangle 3,1 / Y1,8$	0,82	77,4
1,1	230 / Y400	$\triangle 4,4 / Y2,5$	0,83	79,6
1,5	230 / Y400	$\triangle 5,8 / Y3,3$	0,84	81,3
2,2	230 / Y400	$\triangle 8,2 / Y4,7$	0,85	83,2
3	230 / Y400	$\triangle 10,7 / Y6,2$	0,87	84,6
4	400 / Y690	$\triangle 8 / Y4,6$	0,88	85,8
5,5	400 / Y690	$\triangle 10,9 / Y6,3$	0,88	87
7,5	400 / Y690	$\triangle 14,5 / Y8,4$	0,89	88,1
11	400 / Y690	$\triangle 21 / Y12,1$	0,89	89,4
15	400 / Y690	$\triangle 28,4 / Y16,3$	0,89	90,3
18,5	400 / Y690	$\triangle 34,7 / Y20$	0,89	90,9
22	400 / Y690	$\triangle 41,1 / Y23,7$	0,89	91,3
30	400 / Y690	$\triangle 55,7 / Y32,1$	0,89	92
37	400 / Y690	$\triangle 68,3 / Y39,3$	0,89	92,5
45	400 / Y690	$\triangle 82,7 / Y47,6$	0,89	92,9

CS

Horizontal single-stage stainless steel centrifugal pumps

The CS pump uses advanced stainless steel manufacturing technology through cold stamping, hydroforming, welding, etc. It is an innovative centrifugal pump with a new design. It can replace traditional cast iron pumps and pumps with general corrosion resistance.

APPLICATION:

The CS pump is a versatile product with a wide range of applications. It can be used to transport a variety of media, including water and industrial liquids with different flow rates and pressures.

- Water supply: transportation of water in waterworks, boosting of main pipeline
- Industrial boosting: process water system, cleaning system, wine and food brewing system
- Industrial liquid transfer: boiler feed, cooling and air conditioning system, condensate system, weak acids and weak bases
- Water treatment: water transfer, swimming pool system
- Irrigation of agricultural land, medicine and health, petrochemicals, aquafarming, etc.

TECHNICAL SPECIFICATIONS:

- Liquid temperature: -20–70°C (up to 104°C on special order)
- Max. ambient temperature: 40°C
- Ingress protection: IP55
- Insulation grade: F
- Max. system pressure: 1 MPa
- Motor speed: 2900 RPM

MATERIALS:

- Standard mechanical seal: graphite / ceramic / NBR (other mechanical seal available upon request).
The mechanical seal is not suitable for liquids with solid particles.
- Pump shaft: AISI 304 (AISI 316 material available upon request)
- O-ring: NBR
- Impeller: AISI 304
- Pump cover: AISI 304

Product nomenclature

1	2	–	3	–	4	/	5
CS	65	–	50	–	200	/	15

1. CS series stainless steel centrifugal pump (monobloc)
 2. Inlet flange: DN65
 3. Outlet flange: DN65
 4. Impeller nominal diameter: 200 mm
 5. Power of motor: 15 kW
- E.g. CS 65–50–200/15

FLOW CURVES:

The guidelines next to it apply to the curves shown on the following pages:

1. Curve tolerance according to ISO9906; thick lines are recommended when using the range; outside the curve is a risk of overload.
2. All curves are based on motor speed of 2900 RPM.
3. Measurements were made in water free of air and particulate matter at 20°C.
4. Due to the risk of overheating, pumps should not be used at a flow rate 10% lower than the flow rate at the point of best efficiency.
5. When pumping liquids with a density or viscosity higher than that of water, use oversized motors.
6. NPSH: the curve shows the average value at the same flow curve conditions.
When choosing a pump, 1 m or at least 0,5 m of safety margin should be added.



National Institute
of Public Health
NIH – National
Research Institute
Hygienic
Certificate



Model	Power (kW)	Q (m³/h)	H _N (m)
CS 50-32-160/1,1	1,1		16,5
CS 50-32-160/1,5	1,5		20
CS 50-32-160/2,2	2,2		26
CS 50-32-200/3	3	13	34
CS 50-32-200/4	4		45
CS 50-32-200/5,5	5,5		54
CS 50-32-200/7,5	7,5		63
CS 65-40-125/1,5	1,5		13
CS 65-40-125/2,2	2,2		20
CS 65-40-125/3	3		25
CS 65-40-160/4	4	25	31
CS 65-40-200/5,5	5,5		41
CS 65-40-200/7,5	7,5		48
CS 65-40-200/11	11		68
CS 65-50-125/3	3	40	16
CS 65-50-125/4	4		21
CS 65-50-160/5,5	5,5		24
CS 65-50-200/7,5	7,5		32
CS 65-50-200/9,2	9,2	50	41
CS 65-50-200/11	11		48
CS 65-50-200/15	15		62
CS 65-50-200/18,5	18,5		68
CS 80-65-125/4,0T	4	80	13
CS 80-65-125/5,5T	5,5		13
CS 80-65-125/7,5T	7,5		19
CS 80-65-125/9,2T	9,2		23
CS 80-65-160/11T	11	100	30
CS 80-65-160/15T	15		37
CS 80-65-200/18,5T	18,5		47
CS 80-65-200/22T	22		50
CS 80-65-200/30T	30		62
CS 100-80-160/11T	11		15
CS 100-80-160/15T	15	160	22
CS 100-80-160/18,5T	18,5		28
CS 100-80-200/22T	22		36
CS 100-80-200/30T	30		45
CS 100-80-200/37T	37		54

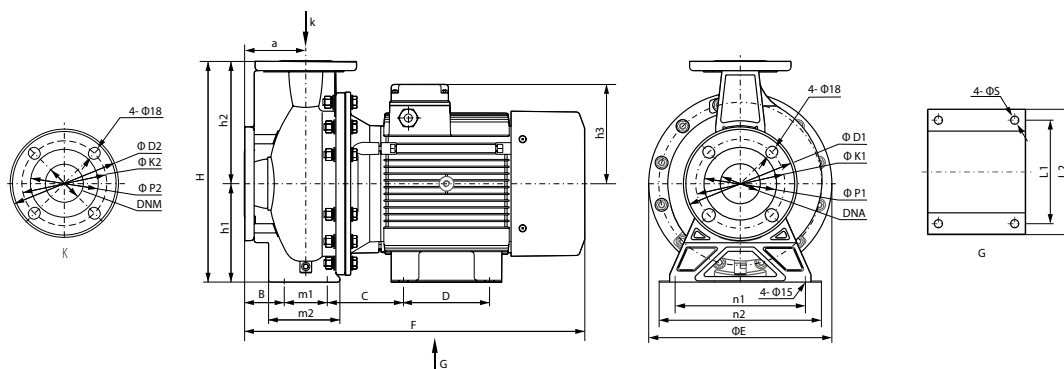
CS cont.

Standard motor / 2 poles					
Power (kW)	Power supply (V)	Current consumption (A)	Power factor cos φ	Flow η (%)	Ist / I _N
1,1	230 / Y400	$\triangle$ 4,5 / Y2,6	0,84	76,2	7,0
1,5	230 / Y400	$\triangle$ 6,0 / Y3,5	0,84	78,5	7,0
2,2	230 / Y400	$\triangle$ 8,4 / Y4,9	0,85	82,6	7,0
3	230 / Y400	$\triangle$ 11 / Y6,3	0,87	81,5	7,0
4	400 / Y690	$\triangle$ 9,6 / Y5,5	0,88	84,2	7,5
5,5	400 / Y690	$\triangle$ 11,1 / Y6,4	0,88	85,7	7,5
7,5	400 / Y690	$\triangle$ 14,9 / Y8,6	0,88	87	7,5
9,2	400 / Y690	$\triangle$ 18,3 / Y10,5	0,88	87	7,5
11	400 / Y690	$\triangle$ 21,2 / Y12,2	0,89	88,4	7,5
15	400 / Y690	$\triangle$ 28,6 / Y16,5	0,89	89,4	7,5
18,5	400 / Y690	$\triangle$ 34,7 / Y20,0	0,90	90	7,5
22	400 / Y690	$\triangle$ 41,0 / Y 23,6	0,90	90,5	7,5
30	400 / Y690	$\triangle$ 55,4 / Y31,9	0,90	91,4	7,5
37	400 / Y690	$\triangle$ 67,9 / Y 39,1	0,90	92	7,5

High-performance motor / 2-pole					
Power (kW)	Power supply (V)	Current consumption (A)	Power factor cos φ	Flow η (%)	Ist / I _N
1,1	230 / Y400	$\triangle$ 4,4 / Y2,5	0,83	79,6	7,1
1,5	230 / Y400	$\triangle$ 5,8 / Y3,3	0,84	81,3	7,3
2,2	230 / Y400	$\triangle$ 8,2 / Y4,7	0,85	83,2	7,6
3,0	230 / Y400	$\triangle$ 10,7 / Y6,2	0,87	84,6	7,8
4,0	400 / Y690	$\triangle$ 8,0 / Y4,6	0,88	85,8	8,1
5,5	400 / Y690	$\triangle$ 10,9 / Y6,3	0,88	87,0	8,2
7,5	400 / Y690	$\triangle$ 14,5 / Y8,4	0,89	88,1	7,8
9,2	400 / Y690	$\triangle$ 17,7 / Y10,2	0,89	88,1	7,8
11	400 / Y690	$\triangle$ 21,0 / Y12,1	0,89	89,4	7,9
15	400 / Y690	$\triangle$ 28,4 / Y16,3	0,89	90,3	7,9
18,5	400 / Y690	$\triangle$ 34,8 / Y20,0	0,89	90,9	8,0
22	400 / Y690	$\triangle$ 41,1 / 23,7Y	0,89	91,3	8,1
30	400 / Y690	$\triangle$ 55,7 / Y32,1	0,89	92,0	7,5
37	400 / Y690	$\triangle$ 68,3 / 39,3Y	0,89	92,5	7,5

CS cont.

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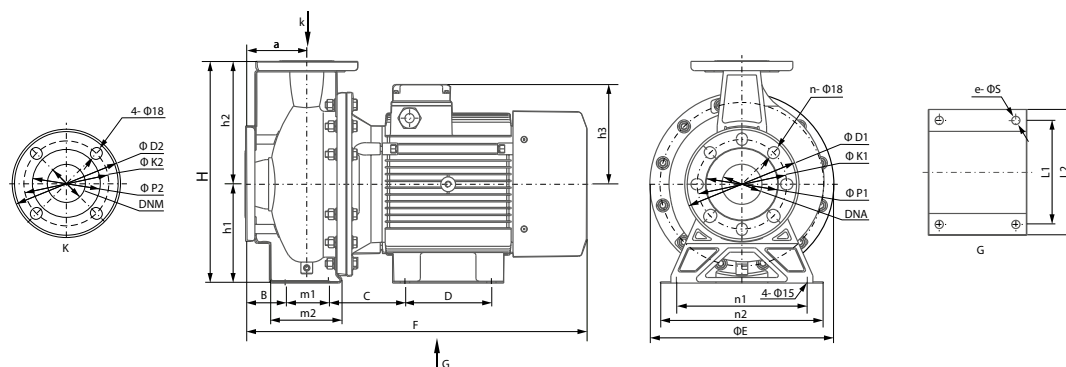


With IE1 motor (mm)																											
Model	Power (kW)	Φ E	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	Φ S	L1	L2	Φ D1	Φ K1	Φ P1	Φ D2	Φ K2	Φ P2	DNA	DNM	
CS 50-32-160/1,1	1,1	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	
CS 50-32-160/1,5	1,5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	
CS 50-32-160/2,2	2,2	210	428	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	165	125	96	140	100	76	50	32	
CS 50-32-200/3	3	300	460	340	160	180	119	80	70	118	190	240	45	109	100	12	160	190	165	125	96	140	100	76	50	32	
CS 50-32-200/4	4	300	498	340	160	180	142	80	70	118	190	240	45	114	140	15	190	225	165	125	96	140	100	76	50	32	
CS 50-32-200/5,5	5,5	300	532	340	160	180	162	80	70	118	190	240	45	122	140	15	190	230	165	125	96	140	100	76	50	32	
CS 50-32-200/7,5	7,5	300	550	340	160	180	162	80	70	118	190	240	45	122	140	15	190	230	165	125	96	140	100	76	50	32	
CS 65-40-125/1,5	1,5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	185	145	115	150	110	80	65	40	
CS 65-40-125/2,2	2,2	210	425	255	112	143	119	80	70	115	160	190	45	110	100	12	160	190	185	145	115	150	110	80	65	40	
CS 65-40-125/3	3	250	460	292	132	160	119	80	70	118	190	240	45	115	100	12	160	190	185	145	115	150	110	80	65	40	
CS 65-40-160/4	4	250	498	292	132	160	142	80	70	118	190	240	45	114	140	15	190	225	185	145	115	150	110	80	65	40	
CS 65-40-200/5,5	5,5	300	554	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	150	110	80	65	40	
CS 65-40-200/7,5	7,5	300	592	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	150	110	80	65	40	
CS 65-40-200/11	11	300	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40	
CS 65-50-125/3	3	250	455	292	132	160	119	80	70	115	190	240	45	110	100	12	160	190	185	145	115	165	125	96	65	50	
CS 65-50-125/4	4	250	498	292	132	160	142	80	70	115	190	240	45	115	140	15	190	225	185	145	115	165	125	96	65	50	
CS 65-50-160/5,5	5,5	300	554	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	165	125	96	65	50	
CS 65-50-200/7,5	7,5	300	592	360	160	200	162	100	70	118	212	264	65	124	140	15	190	230	185	145	115	165	125	96	65	50	
CS 65-50-200/9,2	9,2	350	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/11	11	350	623	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/15	15	350	665	360	160	200	179	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/18,5	18,5	350	725	360	160	200	255	100	70	118	212	264	65	147	254	15	254	320	185	145	115	165	125	96	65	50	

With IE1 motor (mm)																											
Model	Power (kW)	Φ E	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	Φ S	L1	L2	Φ D1	Φ K1	Φ P1	Φ D2	Φ K2	Φ P2	DNA	DNM	
CS 50-32-160/1,1	1,1	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	
CS 50-32-160/1,5	1,5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	165	125	96	140	100	76	50	32	
CS 50-32-160/2,2	2,2	210	428	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	165	125	96	140	100	76	50	32	
CS 50-32-200/3	3	300	460	340	160	180	119	80	70	118	190	240	45	109	100	12	160	190	165	125	96	140	100	76	50	32	
CS 50-32-200/4	4	300	520	340	160	180	162	80	70	118	190	240	45	122	140	15	190	225	165	125	96	140	100	76	50	32	
CS 50-32-200/5,5	5,5	300	593	340	160	180	182	80	70	118	190	240	45	161	140	15	216	255	165	125	96	140	100	76	50	32	
CS 65-40-125/1,5	1,5	210	395	255	112	143	134	80	70	115	160	190	45	95	90	12	125	155	185	145	115	150	110	80	65	40	
CS 65-40-125/2,2	2,2	210	425	255	112	143	119	80	70	115	160	190	45	111	100	12	160	190	185	145	115	150	110	80	65	40	
CS 65-40-125/3	3	250	460	292	132	160	119	80	70	118	190	240	45	111	100	12	160	190	185	145	115	150	110	80	65	40	
CS 65-40-160/4	4	250	520	292	132	160	162	80	70	118	190	240	45	148	140	15	190	230	185	145	115	150	110	80	65	40	
CS 65-40-200/5,5	5,5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40	
CS 65-40-200/7,5	7,5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	150	110	80	65	40	
CS 65-40-200/11	11	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	150	110	80	65	40	
CS 65-50-125/3	3	250	455	292	132	160	119	80	70	115	190	240	45	110	100	12	160	190	185	145	115	165	125	96	65	50	
CS 65-50-125/4	4	250	520	292	132	160	162	80	70	115	190	240	45	148	140	15	190	230	185	145	115	165	125	96	65	50	
CS 65-50-160/5,5	5,5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/7,5	7,5	300	615	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/9,2	9,2	300	617	360	160	200	182	100	70	118	212	264	65	161	140	15	216	255	185	145	115	165	125	96	65	50	
CS 65-50-200/11	11	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	165	125	96	65	50	
CS 65-50-200/15	15	350	671	360	160	200	255	100	70	118	212	264	65	147	210	15	254	320	185	145	115	165	125	96	65	50	
CS 65-50-200/18,5	18,5	350	715	360	160	200	255	100	70	118	212	264	65	147	254	15	254	320	185	145	115	165	125	96	65	50	

CS cont.

Dimensions:



With IE1 motor (mm)

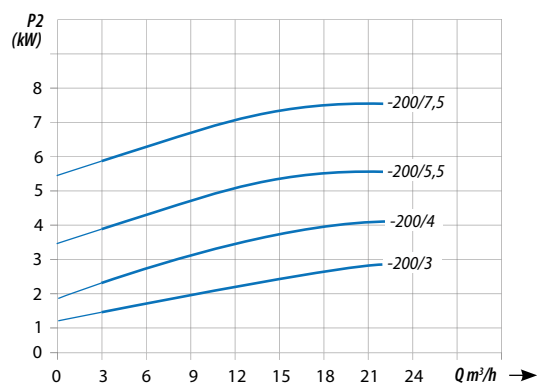
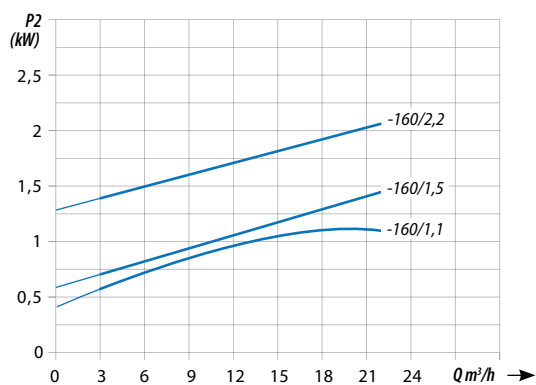
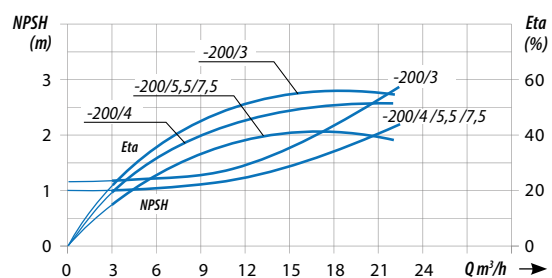
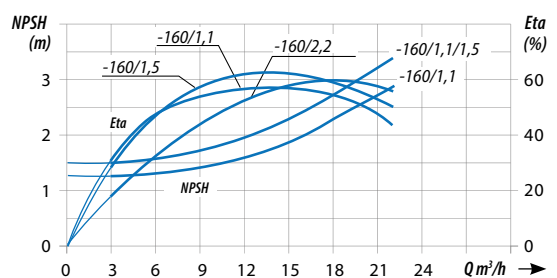
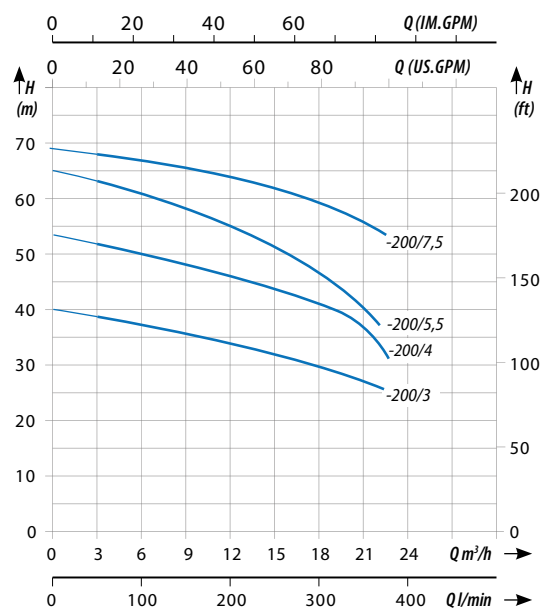
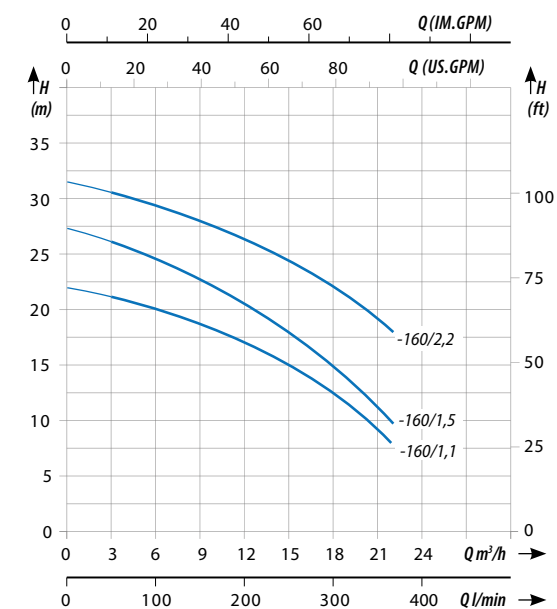
Model	Power (kW)	ΦE	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	e- ΦS	L1	L2	$\Phi D1$	$\Phi K1$	$\Phi P1$	$\Phi D2$	$\Phi K2$	$\Phi P2$	n	DNA	DNM
CS 80-65-125/4	4	256	514	340	160	180	162	100	95	152	212	250	53	105	140	4- $\Phi 15$	190	230	200	160	132	185	145	115	4	80	65
CS 80-65-125/5,5	5,5	256	530	340	160	180	162	100	95	152	212	250	53	113	140	4- $\Phi 15$	190	230	200	160	132	185	145	115	4	80	65
CS 80-65-125/7,5	7,5	256	568	340	160	180	162	100	95	152	212	250	53	113	140	4- $\Phi 15$	190	230	200	160	132	185	145	115	4	80	65
CS 80-65-125/9,2	9,2	256	636	340	160	180	179	100	95	152	212	250	53	175	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-160/11	11	300	620	360	160	200	179	100	95	152	212	250	53	152	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-160/15	15	300	662	292	160	200	179	100	95	152	212	250	53	152	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-200/18,5	18,5	350	748	405	180	225	255	100	95	148	250	290	53	456	-	2- $\Phi 15$	254	320	200	160	132	185	145	115	4	80	65
CS 80-65-200/22	22	356	776	405	180	225	275	100	95	148	250	290	53	169	241	4- $\Phi 15$	279	355	200	160	132	185	145	115	4	80	65
CS 80-65-200/30	30	400	844	425	200	225	308	100	95	148	250	290	53	177	305	4- $\Phi 18,5$	318	386	200	160	132	185	145	115	4	80	65
CS 100-80-160/11	11	256	669	405	180	225	179	125	95	176	250	290	78	183	140	4- $\Phi 15$	216	255	220	180	152	200	160	132	8	100	80
CS 100-80-160/15	15	256	711	405	180	225	179	125	95	176	250	290	78	183	140	4- $\Phi 15$	216	255	220	180	152	200	160	132	8	100	80
CS 100-80-160/18,5	18,5	350	769	405	180	225	255	125	95	176	250	290	78	452	-	2- $\Phi 15$	254	320	220	180	152	200	160	132	8	100	80
CS 100-80-200/22	22	356	811	430	180	250	275	125	95	176	280	320	78	180	241	4- $\Phi 15$	279	355	220	180	152	200	160	132	8	100	80
CS 100-80-200/30	30	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4- $\Phi 18,5$	318	386	220	180	152	200	160	132	8	100	80
CS 100-80-200/37	37	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4- $\Phi 18,5$	318	386	220	180	152	200	160	132	8	100	80

With IE2 motor (mm)

Model	Power (kW)	ΦE	F	H	h1	h2	h3	a	m1	m2	n1	n2	B	C	D	e- ΦS	L1	L2	$\Phi D1$	$\Phi K1$	$\Phi P1$	$\Phi D2$	$\Phi K2$	$\Phi P2$	n	DNA	DNM
CS 80-65-125/4	4	256	534	340	160	180	162	100	95	152	212	250	53	113	140	4- $\Phi 15$	190	230	200	160	132	185	145	115	4	80	65
CS 80-65-125/5,5	5,5	256	636	340	160	180	179	100	95	152	212	250	53	175	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-125/7,5	7,5	256	636	340	160	180	179	100	95	152	212	250	53	175	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-125/9,2	9,2	256	636	340	160	180	179	100	95	152	212	250	53	175	140	4- $\Phi 15$	216	255	200	160	132	185	145	115	4	80	65
CS 80-65-160/11	11	350	705	360	160	200	255	100	95	152	212	250	53	140	210	4- $\Phi 15$	254	320	200	160	132	185	145	115	4	80	65
CS 80-65-160/15	15	350	705	292	160	200	255	100	95	152	212	250	53	140	210	4- $\Phi 15$	254	320	200	160	132	185	145	115	4	80	65
CS 80-65-200/18,5	18,5	350	748	405	180	225	255	100	95	148	250	290	53	456	-	2- $\Phi 15$	254	320	200	160	132	185	145	115	4	80	65
CS 80-65-200/22	22	356	776	405	180	225	275	100	95	148	250	290	53	169	241	4- $\Phi 15$	279	355	200	160	132	185	145	115	4	80	65
CS 80-65-200/30	30	400	844	425	200	225	308	100	95	148	250	290	53	177	305	4- $\Phi 18,5$	318	386	200	160	132	185	145	115	4	80	65
CS 100-80-160/11	11	350	725	405	180	225	255	125	95	176	250	290	78	452	140	2- $\Phi 15$	254	320	220	180	152	200	160	132	8	100	80
CS 100-80-160/15	15	350	725	405	180	225	255	125	95	176	250	290	78	452	140	2- $\Phi 15$	254	320	220	180	152	200	160	132	8	100	80
CS 100-80-160/18,5	18,5	350	769	405	180	225	255	125	95	176	250	290	78	452	-	2- $\Phi 15$	254	320	220	180	152	200	160	132	8	100	80
CS 100-80-200/22	22	356	811	430	180	250	275	125	95	176	280	320	78	180	241	4- $\Phi 15$	279	355	220	180	152	200	160	132	8	100	80
CS 100-80-200/30	30	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4- $\Phi 18,5$	318	386	220	180	152	200	160	132	8	100	80
CS 100-80-200/37	37	400	880	450	200	250	308	125	95	176	280	320	78	188	305	4- $\Phi 18,5$	318	386	220	180	152	200	160	132	8	100	80

CS cont.

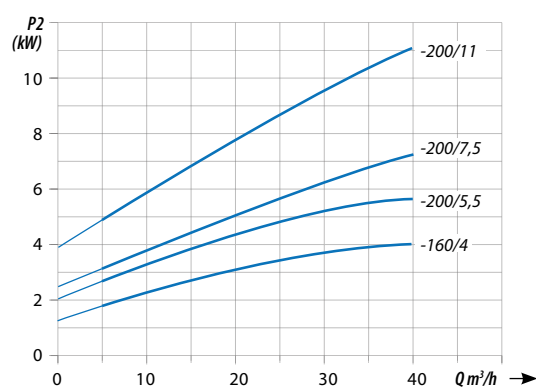
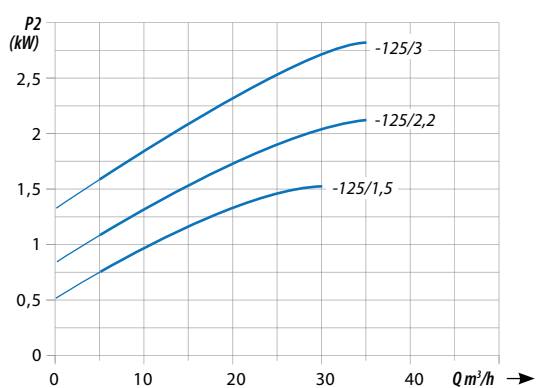
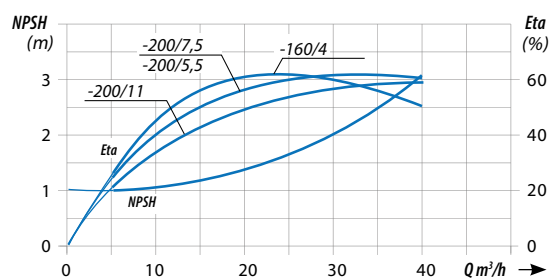
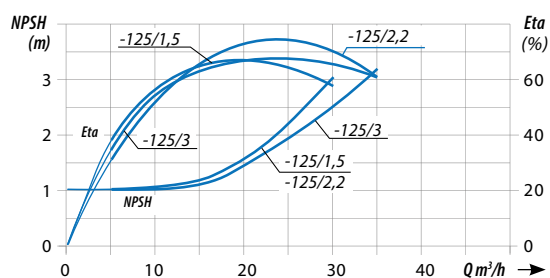
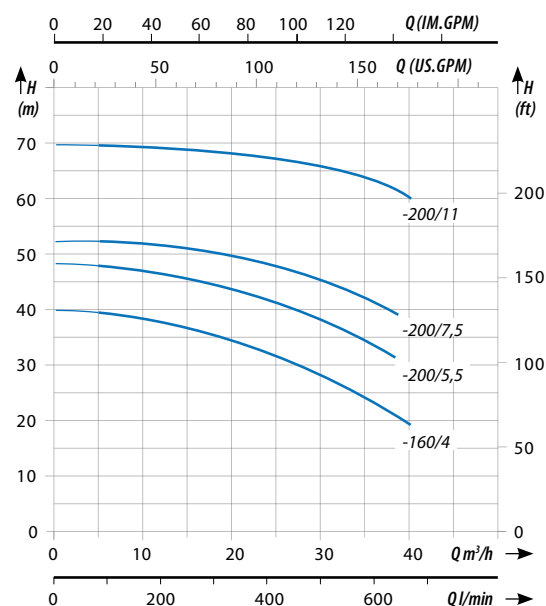
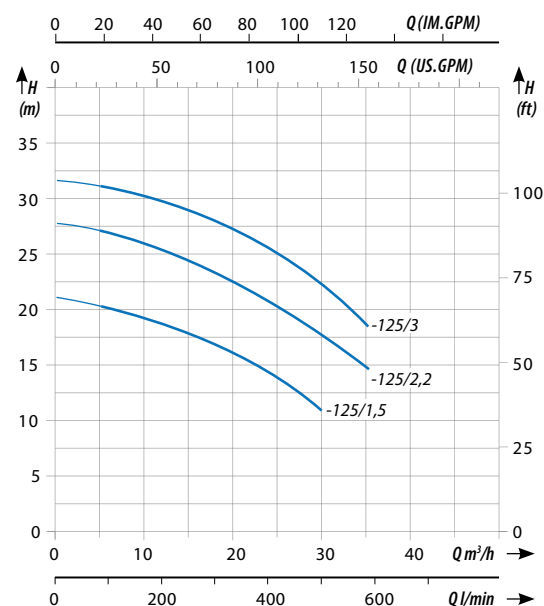
Flows CS 50-32-xxx



Model	Power (kW)	Q (m³/h)	3	6	9	13	15	18	20	22
CS 50-32-160/1,1	1,1	H (m)	21	20	18,5	16,5	15	12,5	10	8
CS 50-32-160/1,5	1,5		26	24,5	22,5	20	18,5	15	12,5	9,5
CS 50-32-160/2,2	2,2		30,5	29,5	27,5	26	24	22,5	20,5	18
CS 50-32-200/3	3		38	37	35	34	32	30	28	26
CS 50-32-200/4	4		51,5	50	48	45	43	41	39	30
CS 50-32-200/5,5	5,5		62	60	58	54	52	47	42	37
CS 50-32-200/7,5	7,5		68	66	64	63	62	60	58	57

CS cont.

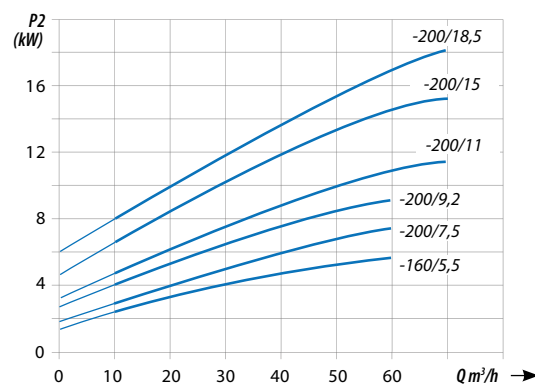
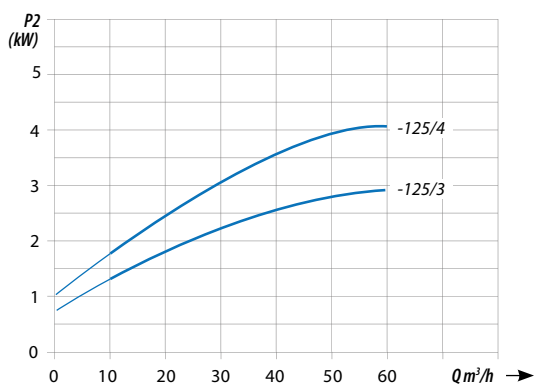
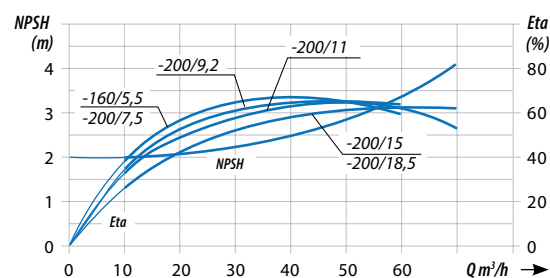
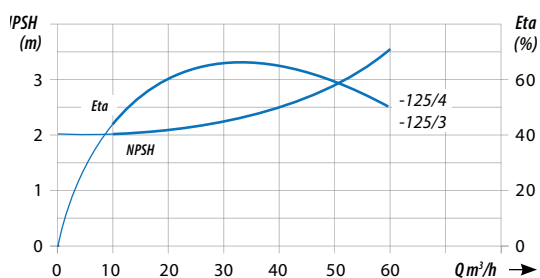
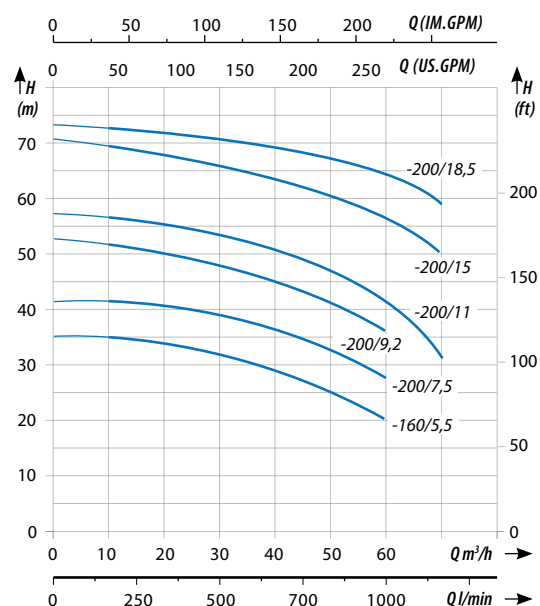
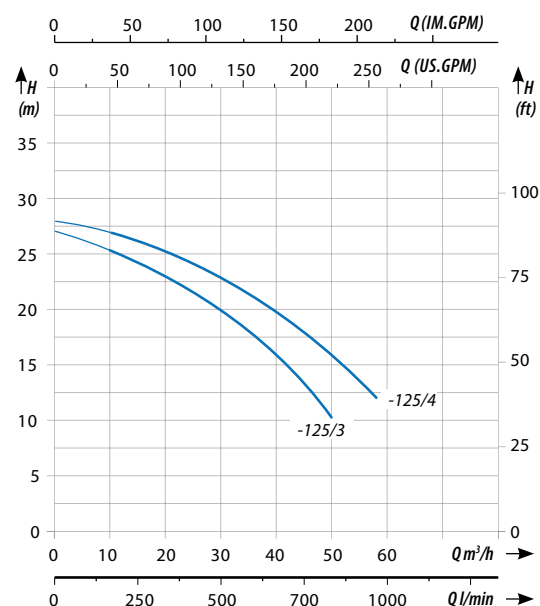
Flows CS 65-40-xxx



Model	Power (kW)	Q (m³/h)	5	10	15	20	25	30	35	40
CS 65-40-125/1,5	1,5	H (m)	20	19	17,5	16	13	10,5	–	–
CS 65-40-125/2,2	2,2		27	26	24	22	20	17	14	–
CS 65-40-125/3	3		31	30	29	27	25	22	18	–
CS 65-40-160/4	4		39	38	36,5	34	31	28	24	19
CS 65-40-200/5,5	5,5		47	46	45,5	44	41	38	34	30
CS 65-40-200/7,5	7,5		52	51,5	51	50	48	45	42	38
CS 65-40-200/11	11		69	69	68,5	68	68	66	64	60

CS cont.

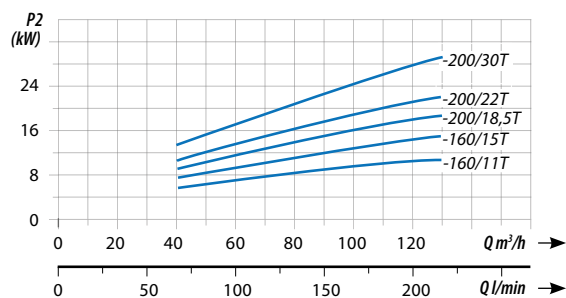
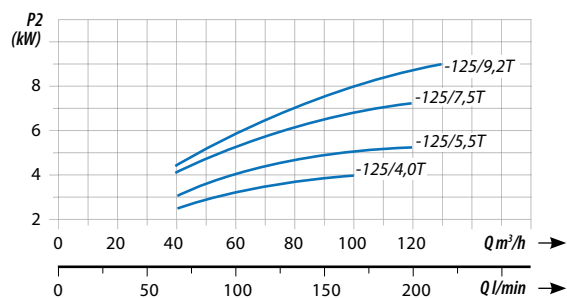
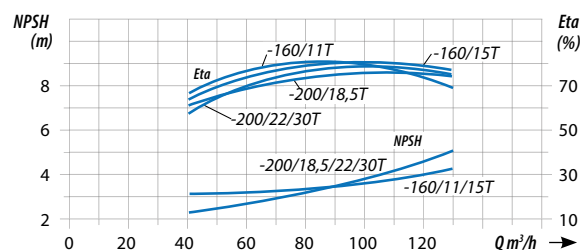
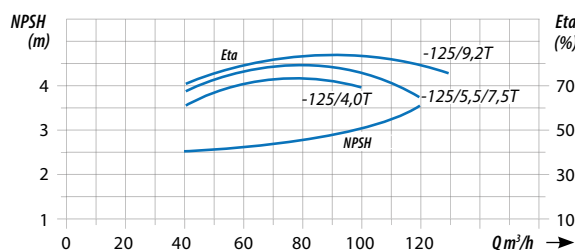
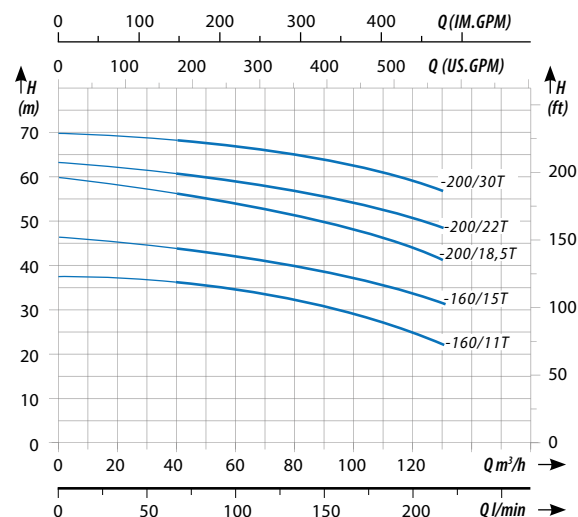
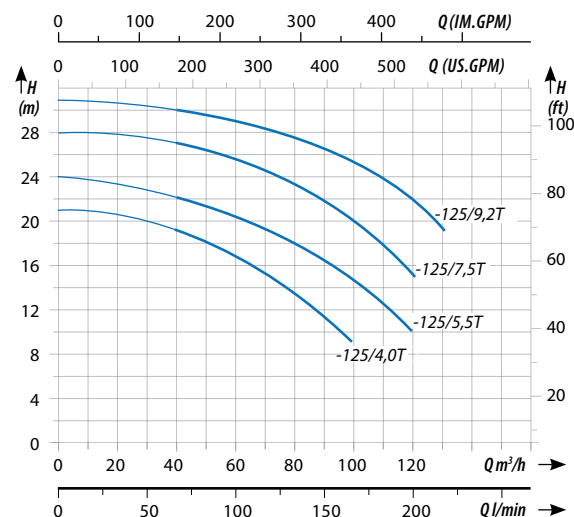
Flows CS 65-50-xxx



Model	Power (kW)	Q (m³/h)	5	10	20	30	40	50	60	70
CS 65-40-125/1,5	1,5	H (m)	27	26	23	20	16	10	–	–
CS 65-40-125/2,2	2,2		28	27	26	24	21	16	–	–
CS 65-40-125/3	3		34,5	34,5	34	31,5	28,5	24	20	–
CS 65-40-160/4	4		41	41	40,5	39	36	32	27,5	–
CS 65-40-200/5,5	5,5		52	52	51	49	45	41	37	–
CS 65-40-200/7,5	7,5		57	56	55	53	51	48	42	30
CS 65-40-200/11	11		69	68	67	65	64	62	57	50
CS 65-50-200/18,5	18,5		73	72	71	70	69	68	65	59

CS cont.

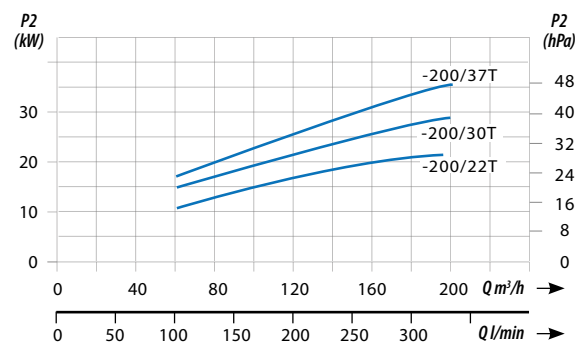
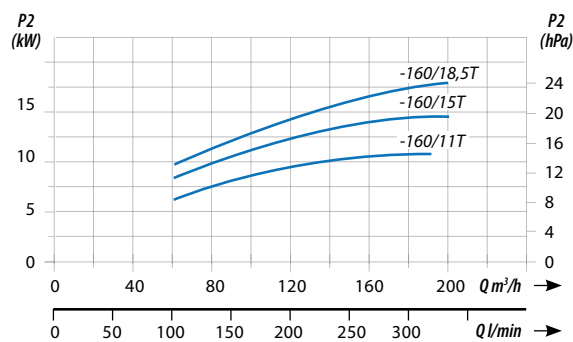
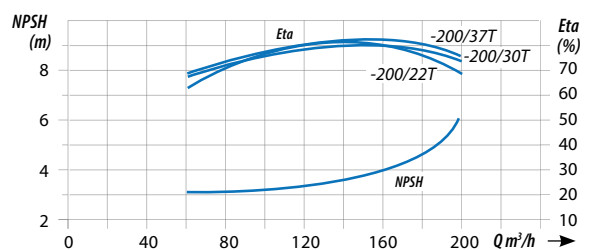
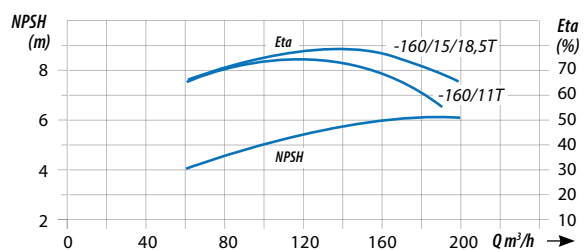
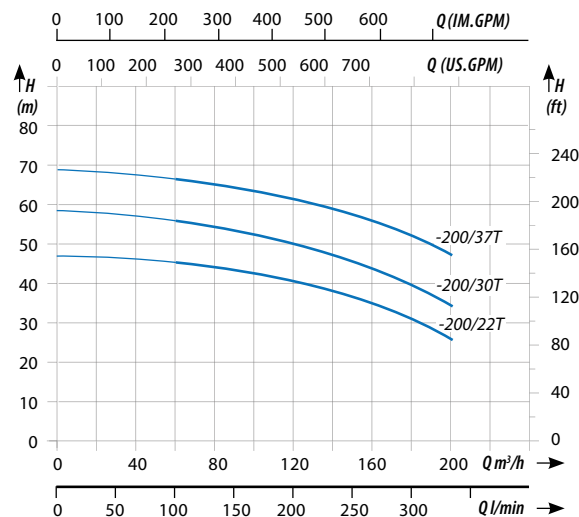
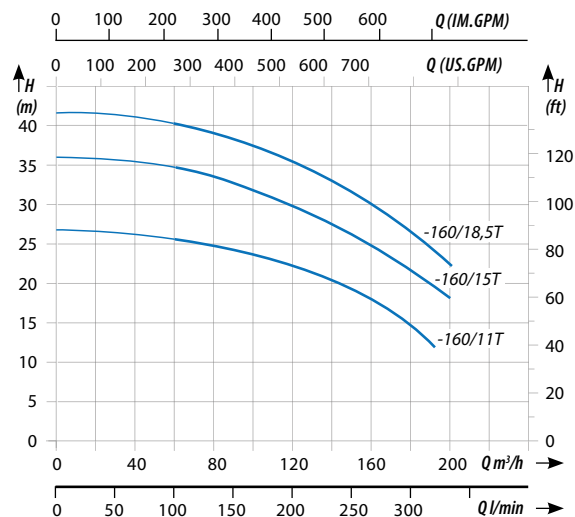
Flows CS 80-65-xxx



Model	Power (kW)	Q (m³/h)	40	50	60	70	80	90	100	110	120	130
CS 80-65-125/4	4	H (m)	19	18	17	15	13	11	9	—	—	—
CS 80-65-125/5,5	5,5		22	21	20	19	18	17	13	12	10	—
CS 80-65-125/7,5	7,5		27	26	25	24	23	22	19	18	15	—
CS 80-65-125/9,2	9,2		30	29	29	28	27	26	23	22	21	19
CS 80-65-160/11	11		36	35	34	33	32	31	30	27	25	22
CS 80-65-160/15	15		44	43	42	40	39	38	37	36	34	32
CS 80-65-200/18,5	18,5	H (m)	53	52	51	50	49	48	47	45	44	41
CS 80-65-200/22	22		60	59	58	57	56	51	50	48	44	41
CS 80-65-200/30	30		72	72	71	70	69	65	62	61	60	59

CS cont.

Flows CS 100-80-xxx

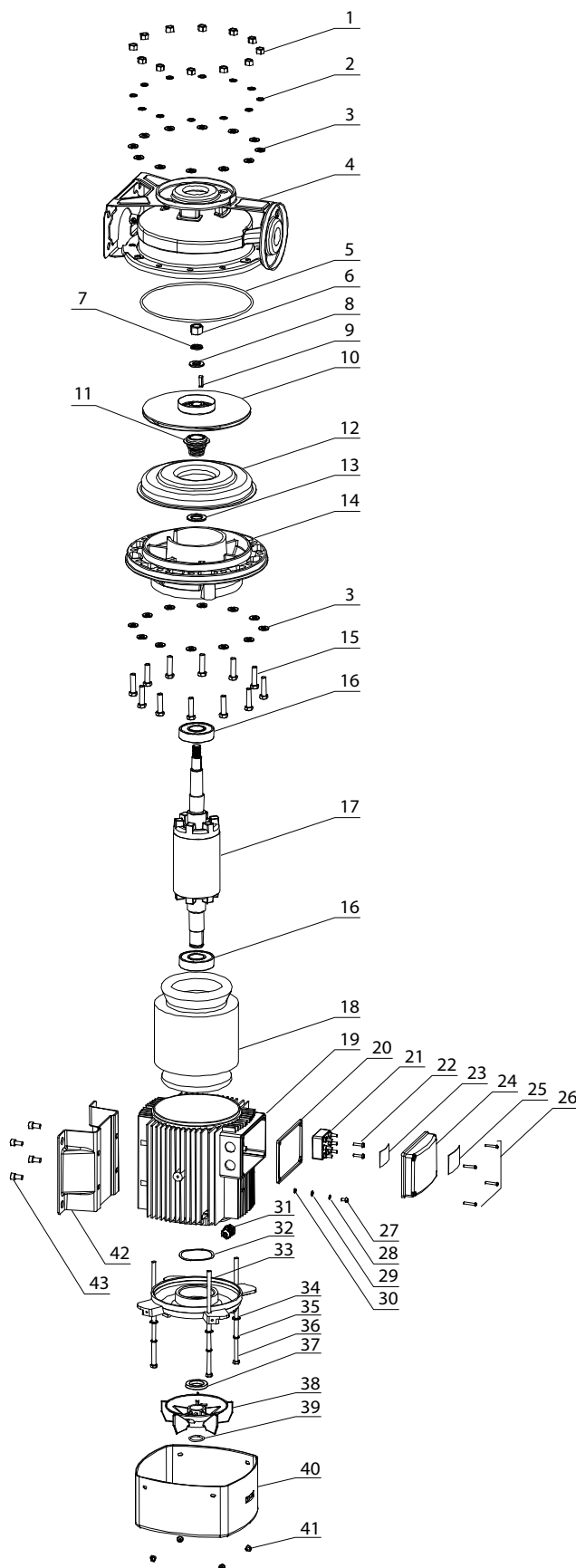


Model	Power (kW)	Q (m^3/h)	60	80	100	120	140	160	180	192	200
CS 100-80-160/11	11	H (m)	26	125	23	22	20	15	14	11	–
CS 100-80-160/15	15		35	33	31	29	27	22	21	20	18
CS 100-80-160/18,5	18,5		38	37	36	35	33	28	27	25	22
CS 100-80-200/22	22		46	44	42	40	38	36	31	29	26
CS 100-80-200/30	30		57	56	55	53	50	45	44	42	39
CS 100-80-200/37	37		66	65	63	61	59	54	53	51	48

CS cont.

Index of parts

No	Name	material
1	Hex nut	chrome plating
2	Spring washer	AISI 304
3	Flat washer	AISI 304
4	Pump housing	AISI 304
5	O-Ring	NBR
6	Hex nut	AISI 304
7	Spring washer	AISI 304
8	Flat washer	AISI 304
9	Flat wedge	AISI 304
10	Impeller	AISI 304
11	Mechanical seal	graphite / ceramic / NBR
12	Pump cover	AISI 304
13	Slinger	NBR
14	Flange	HT200
15	Hex bolt	AISI 304
16	Bearing	–
17	Impeller with shaft	–
18	Stator	–
19	Motor base	ADC12
20	Sealing washer	NBR
21	–	–
22	Phillips head screws	Zinc
23	Wiring diagram	film stickers
24	Terminal box cover	ADC12
25	Nameplate	film stickers
26	Phillips head screws	AISI 304
27	Screw	AISI 304
28	Flat washer	AISI 304
29	Plain washer	AISI 304
30	Sprinklers with lock	Zinc
31	Terminal box nut	–
32	Corrugated washers	60Si2MnA
33	Back cover	HT200
34	Flat washer	Zinc
35	Spring washer	Zinc
36	Hex head screw	Zinc
37	Framework stamp	–
38	Fan	modified reinforced polypropylene
39	Shaft protection ring	–
40	Fan cover	ABS+PC
41	Cross bolt with washer	AISI 304
42	Base	A3
43	Hex head screw	galvanized



NOTES

Submersible pumps

RQE AUTO | RQE AUTO RAIN

QBO

QBS

WE

WES

ZWE

HARPIA 1100



RQE AUTO | RQE AUTO RAIN

High-pressure submersible pumps



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Research Institute
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Certificate

RQE AUTO RAIN is a series of high-pressure pumps designed for watering, featuring an integrated automatic pump control unit.

Opening the valve or tap starts the pump, and if the valve or outlet tap is closed, the pump goes into standby and shuts off, maintaining constant pressure in the system. RQE pumps use a cooling jacket so that the pumps do not have to be fully submerged. Instead of a filter net around the pump, RQEs have a 1-inch suction port to which a suction hose with a check valve is connected. The advantage of such a solution is the protection of the pump against dirt deposition – the pump does not suck water from the tank bottom. The RQE pump also features thermal protection fitted in the motor winding. RQE AUTO RAIN has an anti-blocking system. If the pump remains inactive for more than 24 hours, it will automatically run for 2 minutes every 24 hours, preventing its blocking by sediment.

APPLICATION:

Installation in rainwater tanks to supply gardens with rainwater. Water supply to houses from ring wells and garden watering systems. The pumps can be used in ponds and for extracting water from springs whose water table is near the surface.



RQE AUTO

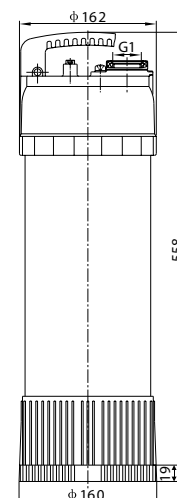
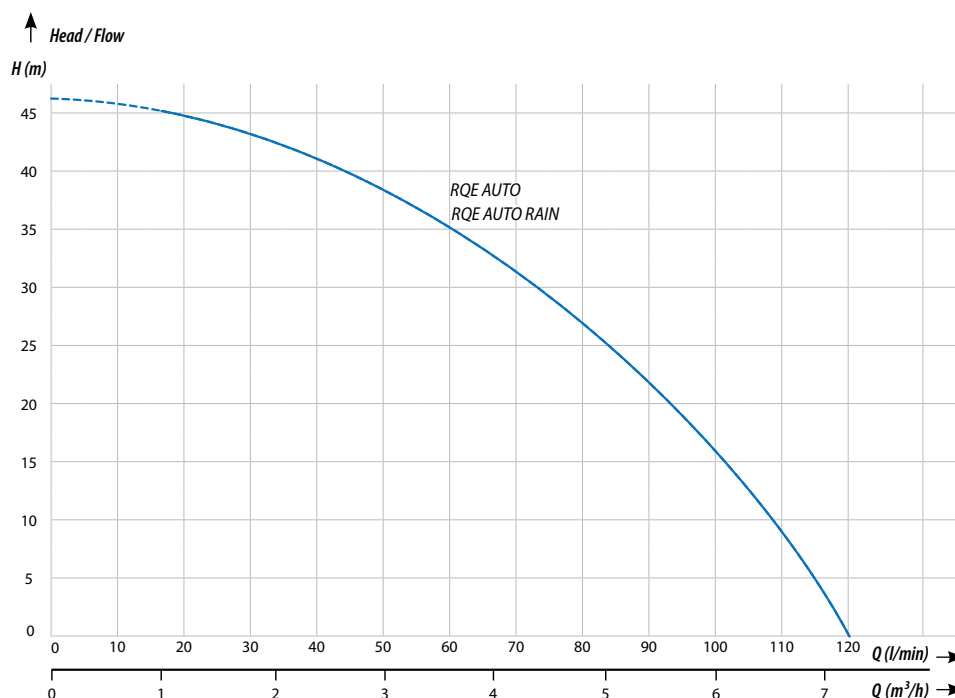
RQE AUTO RAIN
+ BOJA

TECHNICAL SPECIFICATIONS:

- Max. medium temperature: 40°C
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Thermal protection: yes
- Power cord length: 10 m
- Motor speed: 2900 RPM

MATERIALS:

- Motor housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: polimer PPO
- Mechanical seal: ceramic / carbon / NBR



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Passage through the impeller (mm)	Ports (inches)	Dimensions diameter/height (cm)	Weight (kg)
RQE AUTO	47	120	1000	230	5,8	5	1	18 / 59	13
RQE AUTO RAIN	47	120	1000	230	5,8	5	1 × 1	18 / 59	15

QBO



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Stainless steel submersible pumps designed for pumping clean and slightly polluted water, not containing abrasive elements (such as sand). The pumps are used in pumping rainwater and surface water from ponds, lakes and rivers, or supplying garden ponds. Drainage of flooded rooms, houses, garages and premises, use in fish farms. Thanks to its manufacture, the pump can pump seawater.

FEATURES:

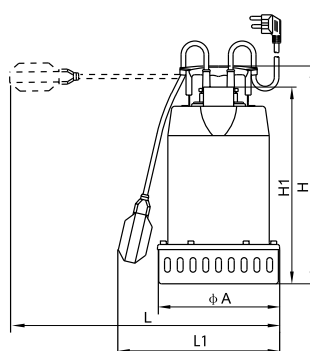
- Made of stainless steel
- The design uses a cooling jacket, so that the pumps do not have to be fully submerged
- Float switch controls pump operation and protects against dry running
- Thermal protection integrated into the motor winding

TECHNICAL SPECIFICATIONS:

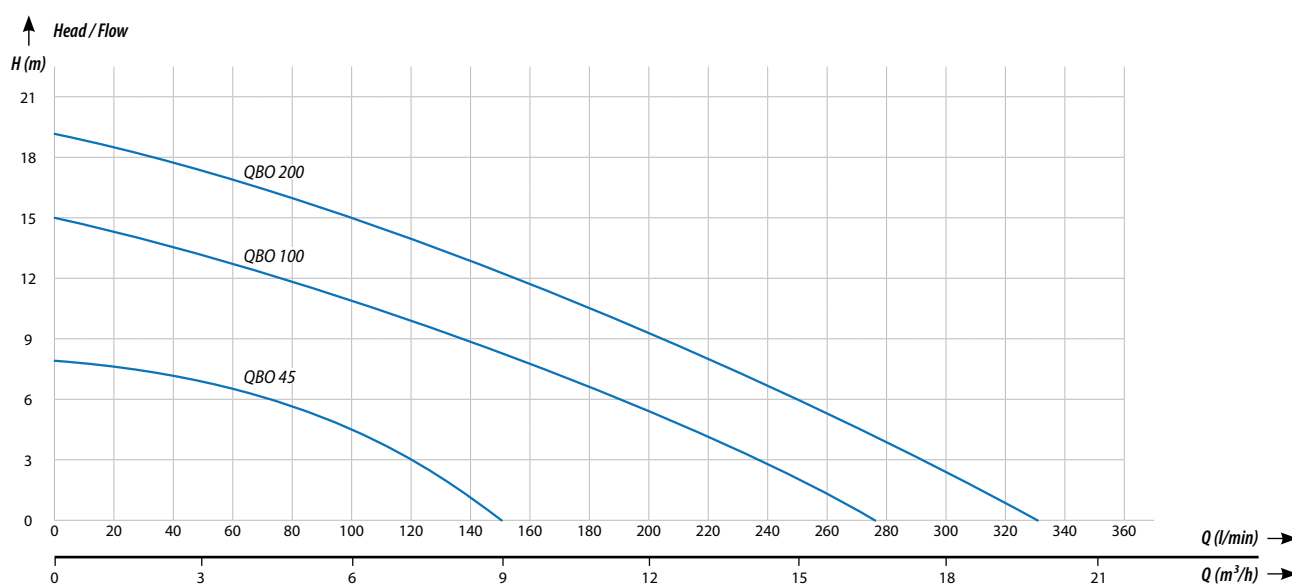
- Max. medium temperature: 50°C
- Power supply: 230 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Operating position: vertical
- Power cord length: 10 m
- Motor speed: 2850 RPM

MATERIALS:

- Motor housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel / polimer PPO
- Mechanical seal: ceramic / carbon / NBR



Model	Dimensions (mm)				
	H	H1	L	L1	A
QBO 45	273	231	380	242	167
QBO 100	360	324	485	285	211
QBO 200	375	339	500	285	211



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions diameter/height (cm)	Weight (kg)
QBO 45	7,5	150	250	230	1,9	2	1¼	16 / 27	5,5
QBO 100	15	275	750	230	5,2	5	1½	21 / 36	10,5
QBO 200	19	333	1500	230	9,2	5	1½	21 / 38	13

QBS



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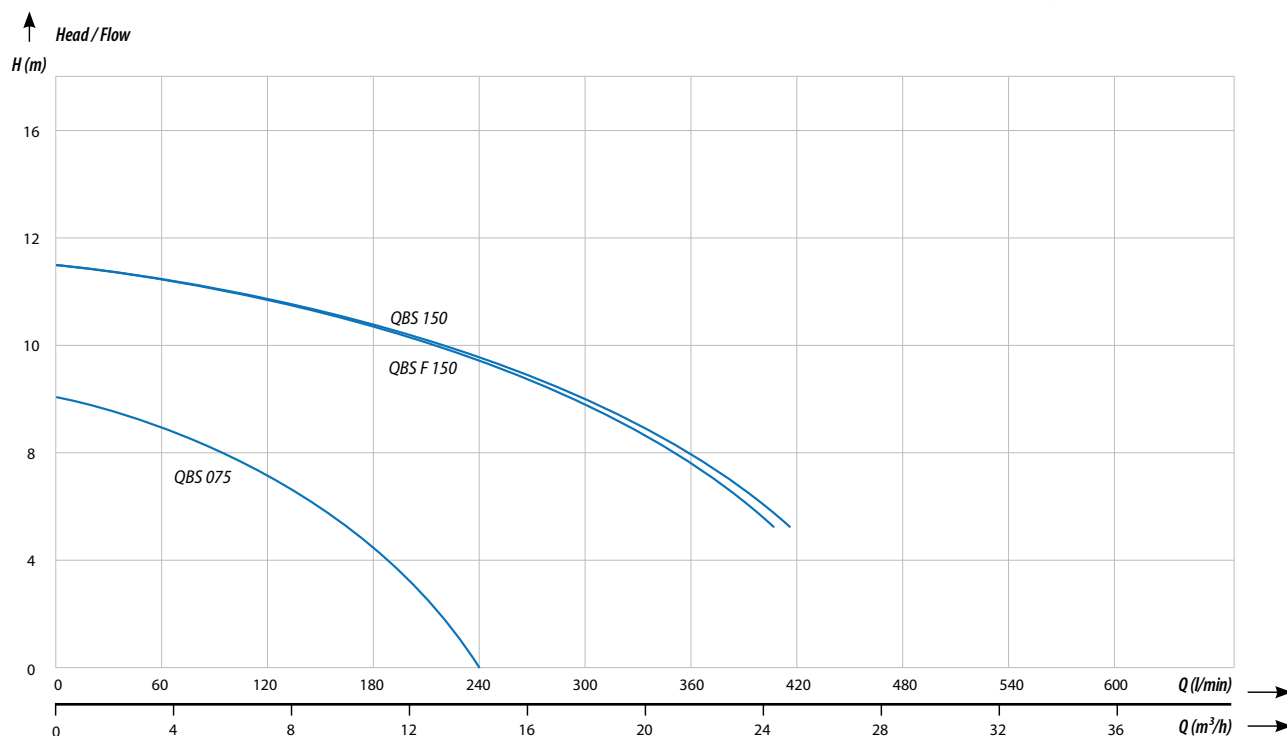
The QBS 150 series of stainless steel pumps was developed for pumping domestic sewage from houses, tenements, small estate communities and small businesses. The full 50 mm free passage under the Vortex impeller works well with discharge pipelines from DN50 (PE63) upwards. The multi-blade impeller perfectly handles food scraps, pieces of rag, sand or wet wipes. Thanks to its stainless steel construction, the pumps can withstand the aggressive environment of wastewater very well. Depending on the installation needs, the pumps are offered in two design versions: with GW2" threaded outlet (QBS) and with DN50 flange (QBS 150 F).

TECHNICAL SPECIFICATIONS:

- Max. medium temperature: 50°C
- Power supply: 1 ~ 230 V / 50 Hz (S version) or 3 ~ 400 V / 50 Hz (T version)
- Insulation grade: F
- Ingress protection: IP68
- pH range: 4–10
- Max. medium density: 1150 kg/m³
- Thermal protection: yes
- Max. immersion depth: 5 m
- Power cord length: 10 m
- Motor speed: 2850 RPM

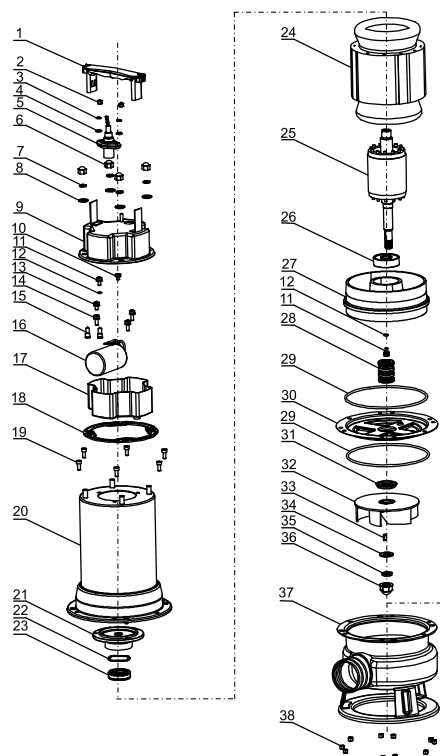
MATERIALS:

- AISI 304 stainless steel housing
- Integrated float switch (for 230 V)
- Vortex impeller with 50 mm free passage
- Double mechanical seal in the oil chamber
- GW2" side connection or DN50 PN10 flange
- Stand and low weight for high mobility

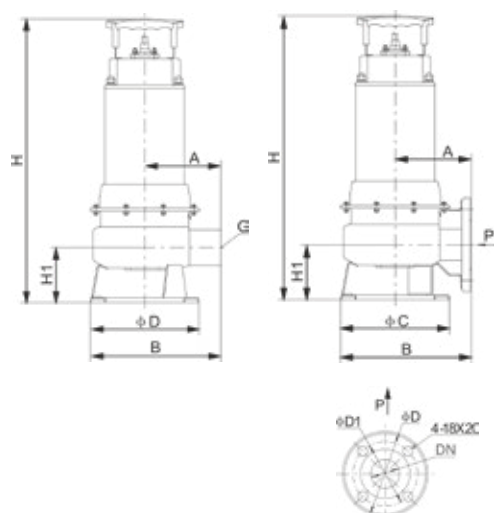


Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Connection (mm/inch)	Dimensions L/H/W (cm)	Weight (kg)
QBS 075	9	233	550	230	3,8	1,5	20,5 / 42 / 17	9
QBS 150	11	467	1100	230 / 400	7 / 2,6	GW2	23 / 48 / 19	16
QBS 150 F	11	450	1100	230 / 400	7 / 2,6	DN50 PN10	23 / 48 / 19	18

QBS cont.



Model	Dimensions (mm)					D C (ø)	D1 (ø)	DN (ø)
	A	B	G	H	H1			
QBS 075	124	209	DN40	424	85	170	–	–
QBS 150	133	228	DN50	487	96	190	–	–
QBS 150 F	133	228	DN50	487	96	190	165	50



No	Part description
1	Handle
2	Hex nut
3	Spring washer
4	Washer
5	Head cable assembly
6	Hex nut
7	Spring washer
8	Washer
9	Top cover
10	Countersunk crosshead screws
11	Countersunk crosshead screw and washer
12	O-ring
13	Grounding screw
14	Countersunk screw and washer with cross recess
15	Terminal
16	Capacitor
17	Capacitor housing
18	Spacer
19	Hexagon socket head screw
20	Motor housing
21	Motor cover
22	Corrugated ring
23	Bearing
24	Stator
25	Motor impeller
26	Bottom bearing
27	Spacer
28	Mechanical seal
29	O-ring
30	Lower motor cover
31	Protective cover
32	Impeller
33	Key
34	Washer
35	Spring washer
36	Hex nut
37	Pump body
38	Hex bolts

WE

For dirty water

WE dirty water pumps with motor power up to 7,5 kW combine the advantages of many other products. Years of experience in the use of hydraulic models, mechanical designs and various aspects of seals have allowed us to develop a comprehensive design that boasts high flow, energy savings and high reliability. Simpler design, easier disassembly and maintenance, a more economical and practical pump.

The WE submersible dirty water pump is suitable for the following applications: raw and dirty water supply, irrigation systems, groundwater drainage, fountains and trench drainage.

APPLICATION:

- For clear, rarefied, non-aggressive liquids without solids or fibres longer than 80% of the diameter of the passage through the pump
- Not suitable for highly corrosive environments and for media containing corrosive or abrasive particles

FEATURES:

- Wide impeller channels allow unobstructed flow that is difficult to block
- The unique combination of mechanical seals and bearings allows the use of a short shaft with high rigidity
- Pumps adapted to different installation versions
- Perfect combination of mechatronics, safety and reliability, and easy maintenance
- Two independent moisture sensors in the oil chamber and in the motor, and a thermal sensor in the stator winding
- Innovative sediment agitation system around the pump inlet to suck up even more dirt

TECHNICAL SPECIFICATIONS:

- Max. medium temperature: 40°C
- pH range: 4–10
- Power supply: 3 ~ 400 V 50 Hz
- Insulation grade: F
- Ingress protection: IP68
- Max. medium density: 1050 kg/m³
- Allowable continuous operation S1 at full immersion
- Max. number of activations: 15/h

MATERIALS:

- Motor and pump body, impeller, motor baffle, oil chamber: ŽL200 cast iron
- Pump shaft: stainless steel
- Screw connections: stainless steel
- Bearings: single-row ZZ ball bearings



Product nomenclature

1	2	3	–	4	5	6	7
WE	65	25	–	4	2	L	Z*

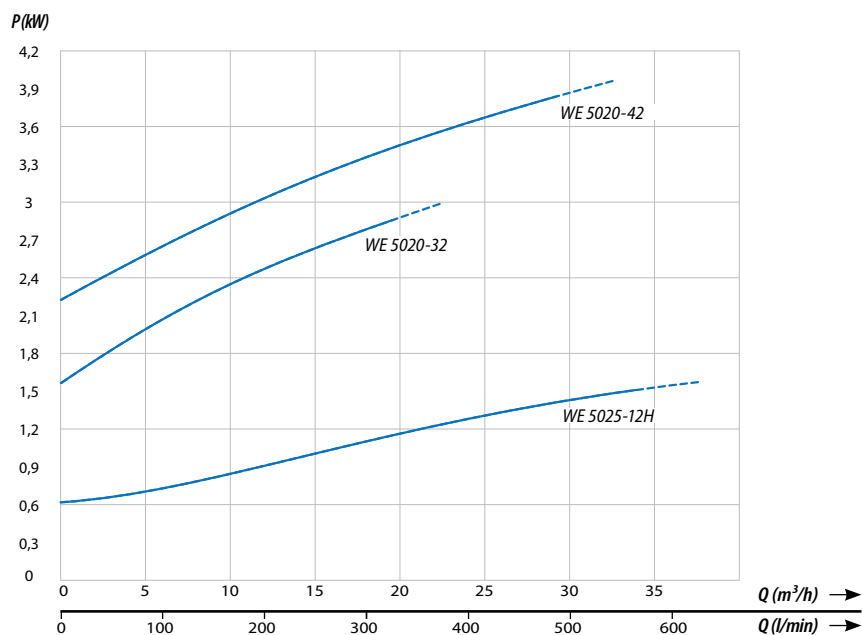
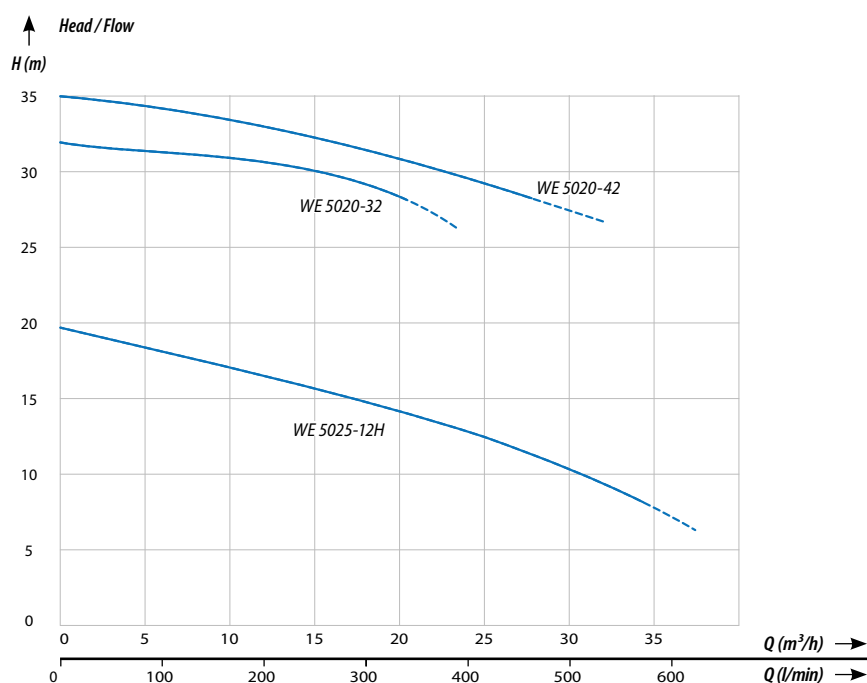
E.g. WE 6515-42L

1. Pump type: WE (two-channel closed), WES (cutting system on the inlet) and ZWE (cutting impeller)
2. DN connection diameter (40, 50, 65, 80, 100) PN6
3. Approximate passage through the impeller (from Ø 15 to Ø 50)
4. Pump power, e.g. 4 kW
5. Head L-low, H-high, – no symbol means a single model in the series
6. Installation version:
 - Z – With a hitch to the coupling foot,
 - Y – Portable with a rigid discharge pipe,
 - R – Portable with a flexible discharge hose,
7. * - No symbol means the pump alone, prepared for a standard hitch

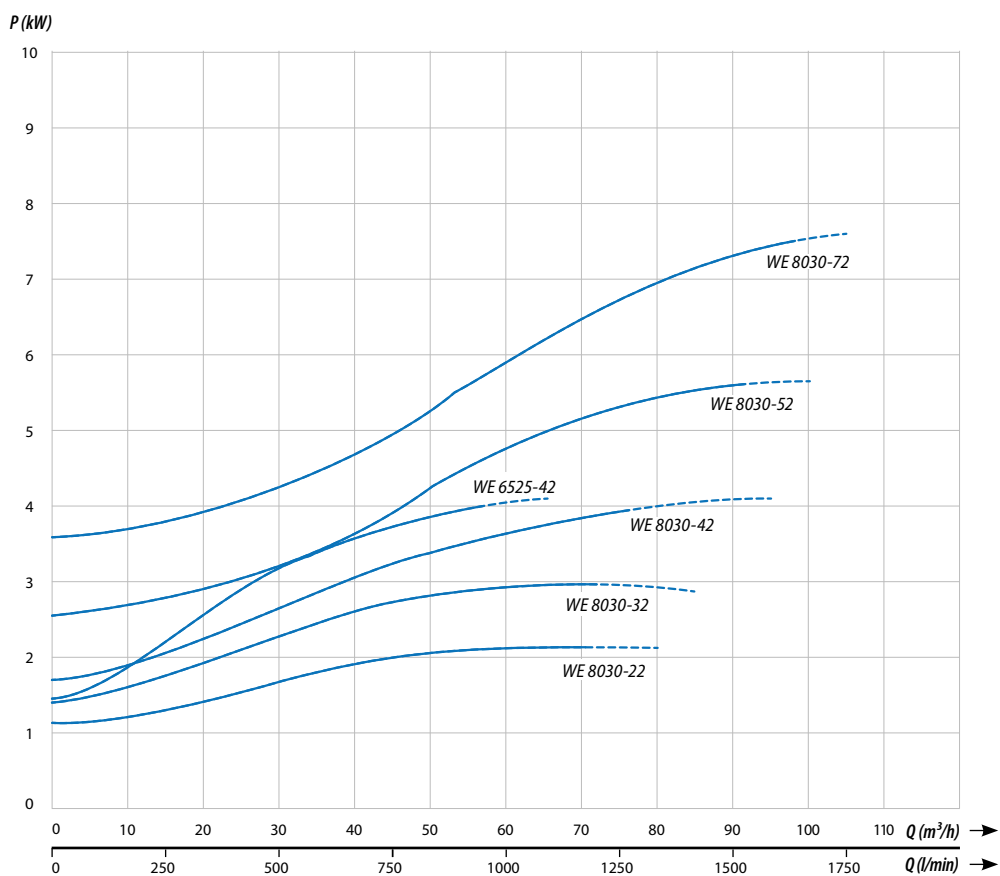
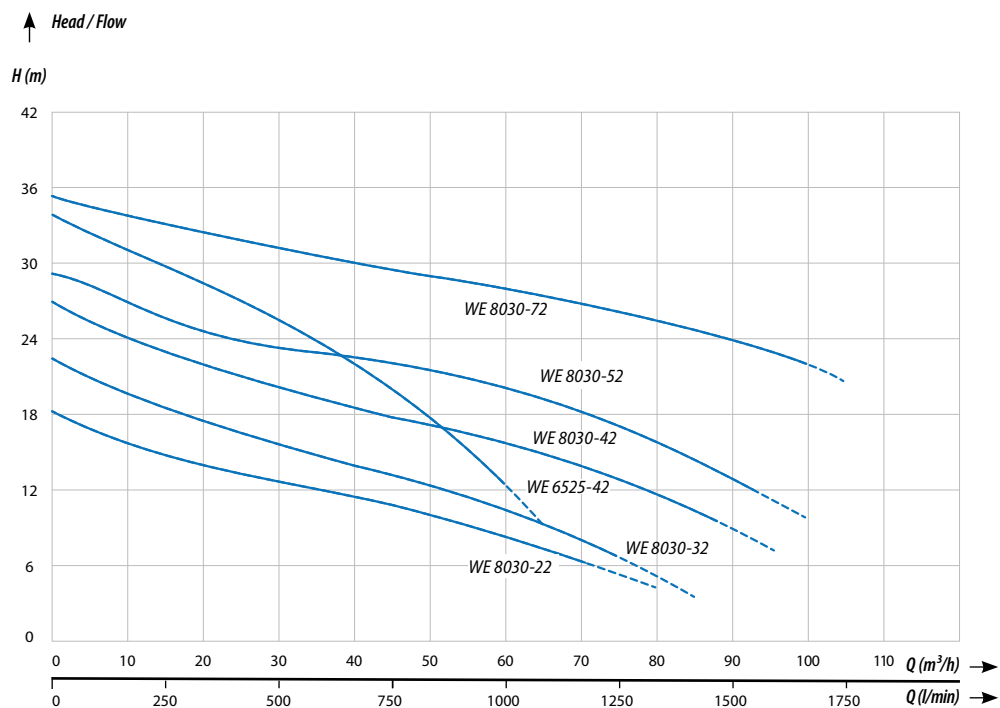
WE cont.

Model	Outlet (mm)	Power (kW)	RPM (n)	H _w (m)	Q _n (m ³ /h)	I _n (A)	cos φ	η (%)	Z _s * (Å)	Passage (mm)	Weight (kg)
WE 5020-32	50	3	2880	30	15	6,4	0,87	82	6,3-10	21	40
WE 5020-42	50	4	2890	31	20	8,2	0,87	85,5	10-16	21	42
WE 5025-12H	50	1,5	2840	14	20	3,4	0,85	78	4-6,3	24	26
WE 6525-42	65	4	2890	22	40	8,2	0,87	85,5	10-16	26	44
WE 8030-22	80	2,2	2840	10	50	4,7	0,86	82	4-6,3	28	35
WE 8030-32	80	3	2880	11	55	6,4	0,87	82	6,3-10	32	44
WE 8030-42	80	4	2890	16	55	8,2	0,87	85,5	10-16	32	45
WE 8030-52	80	5,5	2920	20	55	11,1	0,88	85,5	10-16	31	65
WE 8030-72	80	7,5	2920	25	55	15	0,88	85,5	14-20	31	73

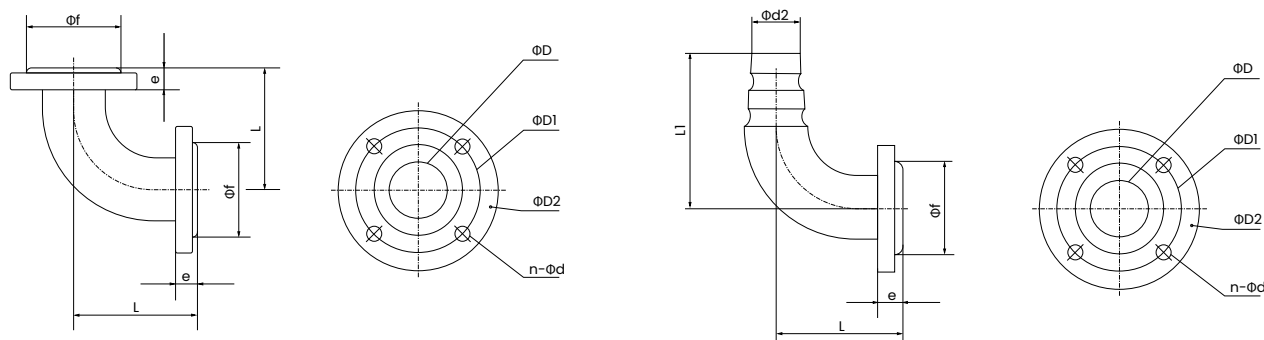
* Motor overload protection



WE cont.

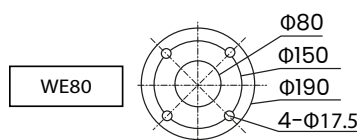
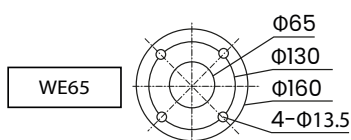
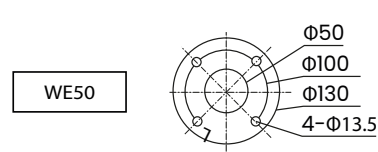
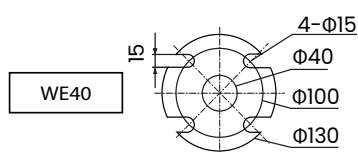
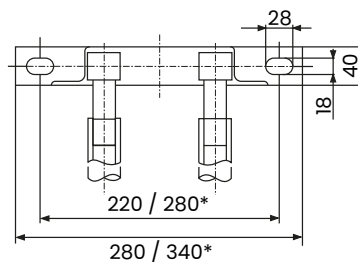
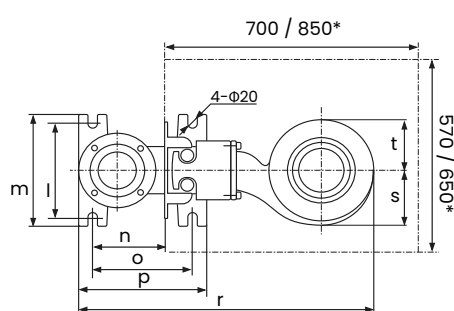
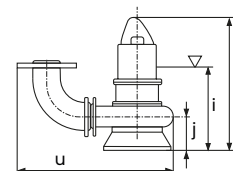
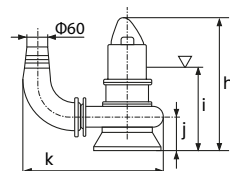
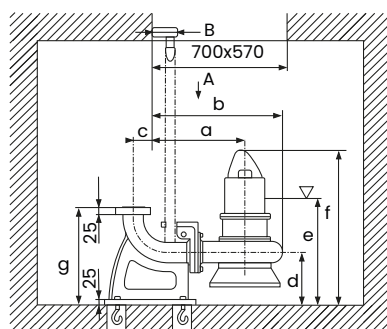


WE cont.



Model	Dimension (mm)								
	D	$\phi D1$	$\phi D2$	$n-\phi d$	L	L1	e	ϕf	$\phi d2$
WE40-WE50	50	110	140	4-13,5	120	140	16	90	60
WE65	65	130	160	4-13,5	130	160	16	110	74
WE80	80	150	190	4-17,5	135	190	18	128	86

Mounting and installation dimensions



WE cont.

Model	Dimensions (mm)												
	a	b	c	d	e	f	g	h	i	j	k	l	m
WE 5020-32	291	403	75	150	395	633	250	589	352	107	435	130	180
WE 5020-42	291	403	75	150	395	633	250	589	352	107	435	130	180
WE 5025-12H	271	372	75	150	350	559	250	495	305	86	412	130	180
WE 6525-42	303	424	95	150	395	633	280	592	353	109	470	130	180
WE 8030-22	309	421	140	170	410	606	320	550	365	117	476	175	220
WE 8030-32	309	431	140	170	425	660	320	606	365	116	486	175	220
WE 8030-42	309	431	140	170	425	660	320	606	365	116	486	175	220
WE 8030-52	329	460	140	170	465	760	320	725	450	135	509	175	220
WE 8030-72	329	460	140	170	465	760	320	725	450	135	509	175	220

Model	Dimensions (mm)											
	n	o	p	r	s	t	u	W1	W2	WX	WY	n × Ø
WE 5020-32	140	200	266	548	119	117	457	75	132	570	700	4 × 20
WE 5020-42	140	200	266	548	119	117	457	75	132	570	700	4 × 20
WE 5025-12H	140	200	266	517	107	94	426	75	132	570	700	4 × 20
WE 6525-42	170	230	299	599	123	110	510	75	132	570	700	4 × 20
WE 8030-22	200	280	364	657	124	102	543	75	132	650	800	4 × 24
WE 8030-32	200	280	364	667	131	106	553	75	132	650	800	4 × 24
WE 8030-42	200	280	364	667	131	106	553	75	132	650	800	4 × 24
WE 8030-52	200	280	364	965	143	120	581	75	132	650	800	4 × 24
WE 8030-72	200	280	364	965	143	120	581	75	132	650	800	4 × 24

WES

For wastewater with a cutting system

WES sewage pumps with a motor power of up to 4 kW combine the advantages of many other products. Years of experience in the use of hydraulic models, mechanical designs and various aspects of seals, have allowed us to develop a comprehensive design that boasts high flow, energy savings and high reliability. Simpler design, easier disassembly and maintenance, a more economical and practical pump.

The WES light submersible sewage pump is mainly used in municipal engineering, construction, domestic and industrial wastewater, wastewater treatment plants and rainwater pumping.

APPLICATION:

- For raw sewage and liquids containing solid or fibrous particles no longer than 80% of the pump outlet diameter
- Not suitable for use in highly corrosive environments and for media containing corrosive or abrasive particles

FEATURES:

- High-quality hardened steel knife for cutting debris at the pump inlet
- Adjustable cutting plate made of hardened steel allows precise positioning of the cutting blade
- The unique combination of mechanical seals and bearings allows the use of a short shaft with high rigidity
- Pumps adapted to different installation versions
- Perfect combination of mechatronics, safety and reliability, and easy maintenance
- Two independent moisture sensors in the oil chamber and in the motor, and a thermal sensor in the stator winding

TECHNICAL SPECIFICATIONS:

- Max. ambient temperature: 40°C
- Power supply: 3 ~ 400 V 50 Hz
- Insulation grade: F
- Ingress protection: IP68
- pH range: 4–10
- Max. medium density: 1050 kg/m³
- Allowable continuous operation S1 at full immersion
- Max. number of activations: 15/h

MATERIALS:

- Motor and pump body, impeller, motor baffle, oil chamber: ŽL200 cast iron
- Pump shaft: stainless steel
- Screw connections: stainless steel
- Bearings: single-row ZZ ball bearings



WES cont.

Product nomenclature

1	2	–	3	4	5	6
WES	50	–	1	2	L	Z*

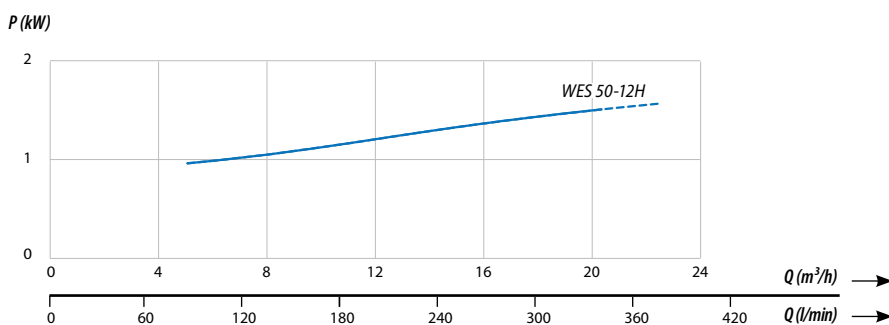
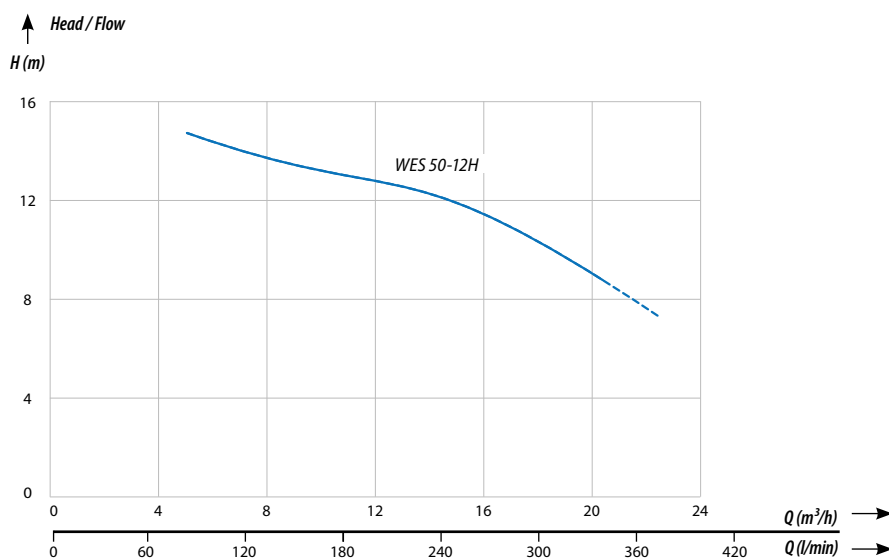
E.g. WES 50-12L



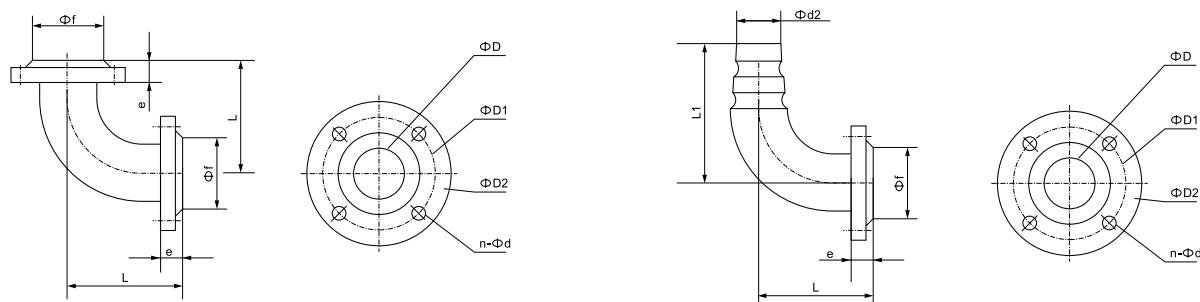
1. Pump type: WES (two-channel closed), WES (cutting system on the inlet) and ZWE (cutting impeller)
2. DN connection diameter (40, 50, 65, 80, 100) PN6
3. Pump power, e.g. 1 kW
4. Number of poles (2, 4 or 6)
5. Head L-low, H-high, – no symbol means one model in the series
6. Installation version:
Z – With a hitch to the coupling foot,
Y – Portable with a rigid discharge pipe
R – Portable with a flexible discharge hose
7. * - No symbol means the pump alone, prepared for a standard hitch

Model	Outlet (mm)	Power (kW)	RPM (n)	H _N (m)	Q _N (m ³ /h)	I _N (A)	Cos φ	η %	Z _s * (A)	Passage (mm)	Weight (kg)
WES 50-12H	50	1,5	2840	12	15	3,4	0,85	78	4–6,3	15	20

* Motor overload protection

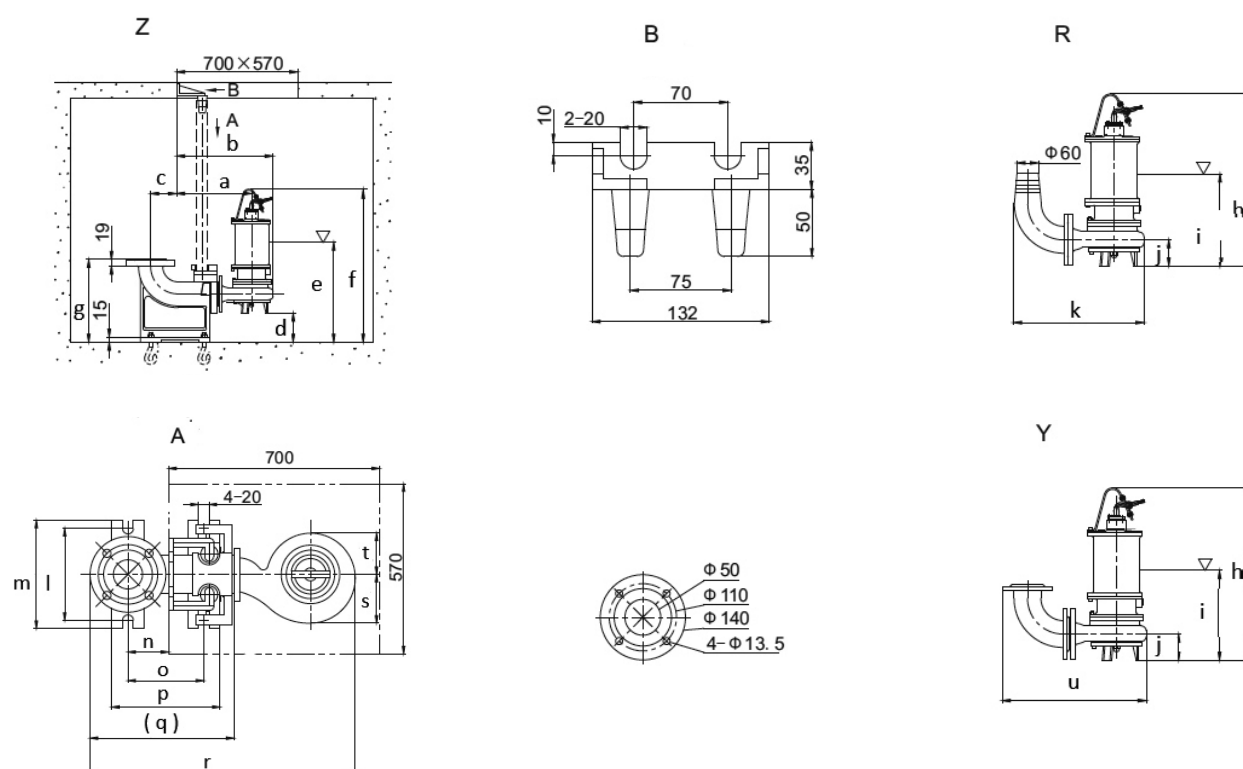


WES cont.



Model	D	$\Phi D1$	$\Phi D2$	$n-\Phi d$	L	L1	e	Φf	$\Phi d2$
WES 50	50	110	140	4-13,5	120	140	16	90	60

Mounting and installation dimensions



Model	Dimensions (mm)																				
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	U
WES 50-12H	266	361	75	74	360	552	250	478	280	76	390	130	180	75	140	200	266	506	101	87	415

ZWE

For wastewater with cutting impeller

ZWE sewage pumps with a motor power of up to 37 kW combine the advantages of many other products. Years of experience in the use of hydraulic models, mechanical designs and various aspects of seals have allowed us to develop a comprehensive design that boasts high flow, energy savings and high reliability. Simpler design, easier disassembly and maintenance, more economical and practical pump.

The ZWE submersible sewage pump is suitable for the following applications: raw and dirty water supply, domestic sewage, irrigation and trench drainage systems.

APPLICATION:

- For raw sewage and liquids containing solid or fibrous particles no longer than 80% of the pump outlet diameter
- Not suitable for use in highly corrosive environments and for media containing corrosive or abrasive particles

FEATURES:

- High-quality hardened steel impeller for cutting debris at the pump inlet
- Unique structure of cutting disc with grooves and scraper for removal of crushed solids
- High resistance of the cutting system to abrasion and corrosion in aggressive environments
- Pumps adapted to different installation versions
- Perfect combination of mechatronics, safety and reliability, and easy maintenance
- Two independent moisture sensors in the oil chamber and in the motor, and a thermal sensor in the stator winding

TECHNICAL SPECIFICATIONS:

- Max. ambient temperature: 40°C
- Power supply: 3 ~ 400 V 50 Hz
- Insulation grade: F
- Protection grade of the device: IP68
- pH range: 4–10
- Max. medium density: 1050 kg/m³
- Allowable continuous operation S1 at full immersion
- Max. number of activations: 15/h

MATERIALS:

- Motor and pump body, impeller, motor baffle, oil chamber: ZL200 cast iron
- Pump shaft and hanger: stainless steel
- Screw connections: stainless steel
- Bearings: single-row ZZ ball bearings
- Impeller and cutting plate: hardened steel

Product nomenclature

1	2	–	3	4	5
ZWE	65	–	4	2	Z*

E.g. ZWE 65-42

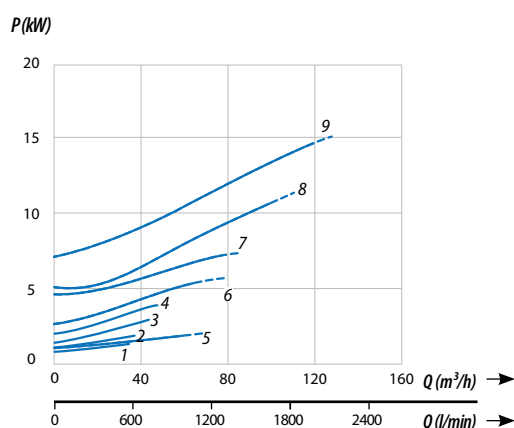
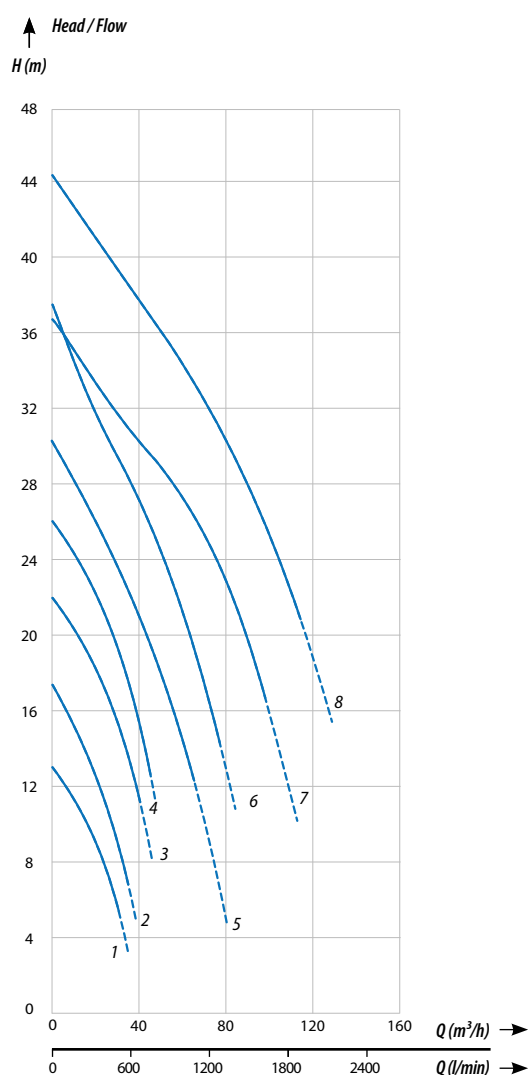
1. Pump type: WE (two-channel closed), WES (cutting system on the inlet) and ZWE (cutting impeller)
2. DN connection diameter (40, 50, 65, 80, 100) PN6
3. Pump power, e.g. 4 kW
4. Number of poles (2, 4 or 6)
5. Installation version:
 - Z – With a hitch to the coupling foot
 - Y – Portable with a rigid discharge pipe
 - R – Portable with a flexible discharge hose
6. * - No symbol means the pump alone, prepared for a standard hitch



ZWE cont.

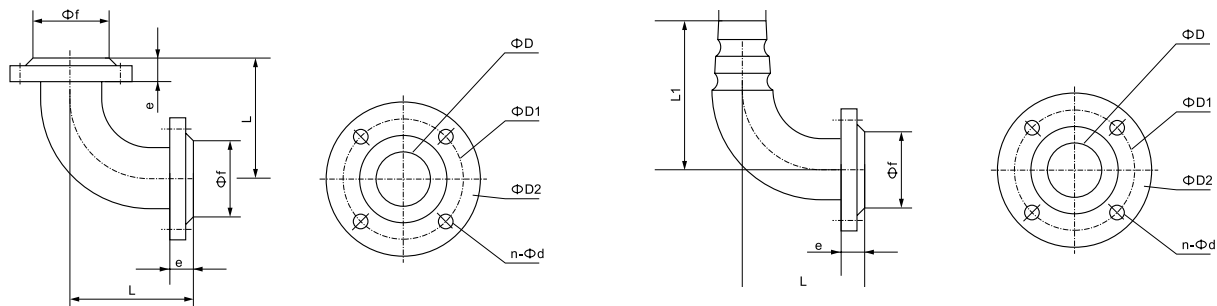
Model	Outlet (mm)	Power (kW)	RPM (n)	H ₀ (m)	Q ₀ (m ³ /h)	I _N (A)	cos φ	η (%)	Z _s * (Å)	Weight (kg)
ZWE50-12	50	1,5	2840	9	20	3,4	0,85	78	4-6,3	32
ZWE50-22	50	2,2	2840	12	20	4,7	0,86	82	4-6,3	36
ZWE50-32	50	3	2880	17	25	6,4	0,87	82	6,3-10	52
ZWE50-42	50	4	2880	19	30	8,2	0,87	85,5	10-14	56
ZWE65-52	65	5,5	2920	21	40	11	0,88	85,5	10-16	80
ZWE65-72	65	7,5	2920	24	50	15	0,88	86,2	14-20	90
ZWE65-112	65	11	2935	26	65	22	0,89	87,6	25	128
ZWE65-152	65	15	2935	30	80	29	0,90	88,8	32	136

* Motor overload protection

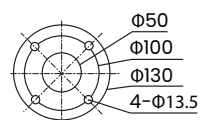
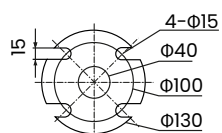
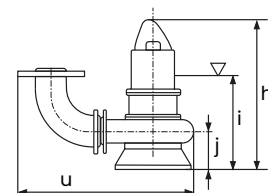
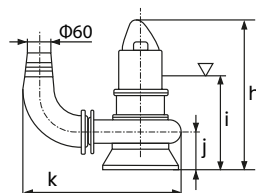
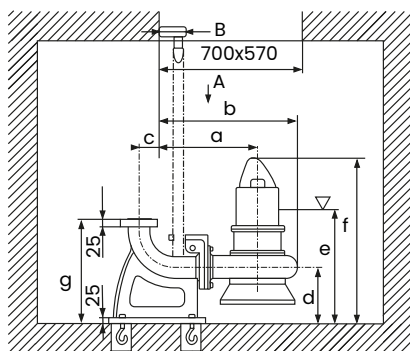
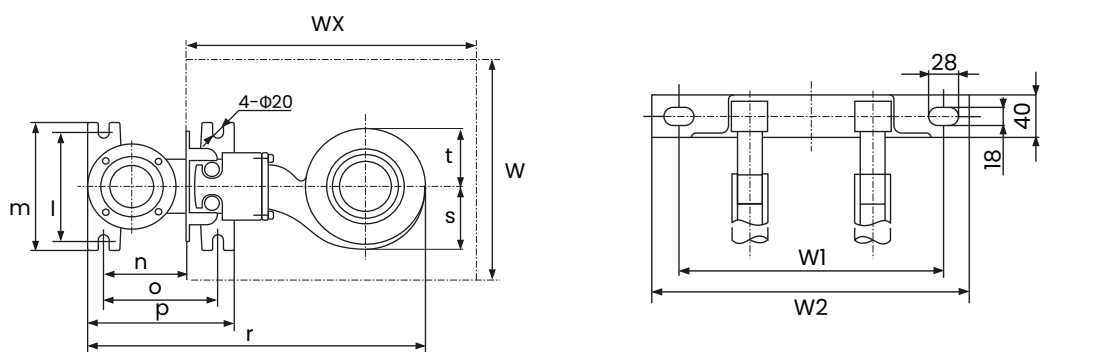


1. ZWE 50-12
2. ZWE 50-22
3. ZWE 50-32
4. ZWE 50-42
5. ZWE 65-52
6. ZWE 65-72
7. ZWE 65-112
8. ZWE 65-152

ZWE cont.



Model	Dimensions (mm)								
	D	ØD1	ØD2	n-Ød	L	L1	e	Øf	Ød2
ZWE 50	50	110	140	4-13,5	120	140	16	90	60
ZWE 65	65	130	160	4-13,5	130	160	16	110	74



ZWE cont.

Model	Dimensions (mm)												
	a	b	c	d	e	f	g	h	i	j	k	l	m
ZWE 50-12	325	414	108	215	430	647	400	527	310	95	397	320	370
ZWE 50-22	325	414	108	215	430	647	400	527	310	95	397	320	370
ZWE 50-32	350	454	108	215	470	689	400	603	375	120	437	320	370
ZWE 50-42	350	454	108	215	470	689	400	603	375	120	437	320	370
ZWE 65-52	385	506	108	215	530	804	400	714	440	125	501	320	370
ZWE 65-72	385	506	108	215	530	804	400	714	440	125	501	320	370
ZWE 65-112	410	550	108	215	586	928	400	902	560	189	545	320	370
ZWE 65-152	410	550	108	215	586	928	400	902	560	189	545	320	370

Model	Dimensions (mm)											
	n	o	p	r	s	t	u	W1	W2	WX	WY	n × Ø
ZWE 50-12	200	320	370	639	97	80	410	220	280	570	700	4 × 20
ZWE 50-22	200	320	370	639	97	80	410	220	280	570	700	4 × 20
ZWE 50-32	200	320	370	679	112	96	459	220	280	570	700	4 × 20
ZWE 50-42	200	320	370	679	112	96	459	220	280	570	700	4 × 20
ZWE 65-52	200	320	370	731	132	115	541	250	310	570	700	4 × 20
ZWE 65-72	200	320	370	731	132	115	541	250	310	570	700	4 × 20
ZWE 65-112	200	320	370	775	152	140	585	250	310	650	850	4 × 20
ZWE 65-152	200	320	370	775	152	140	585	250	310	650	850	4 × 20

HARPIA 1100

*High-pressure positive displacement pump
with a cutting system for domestic wastewater*

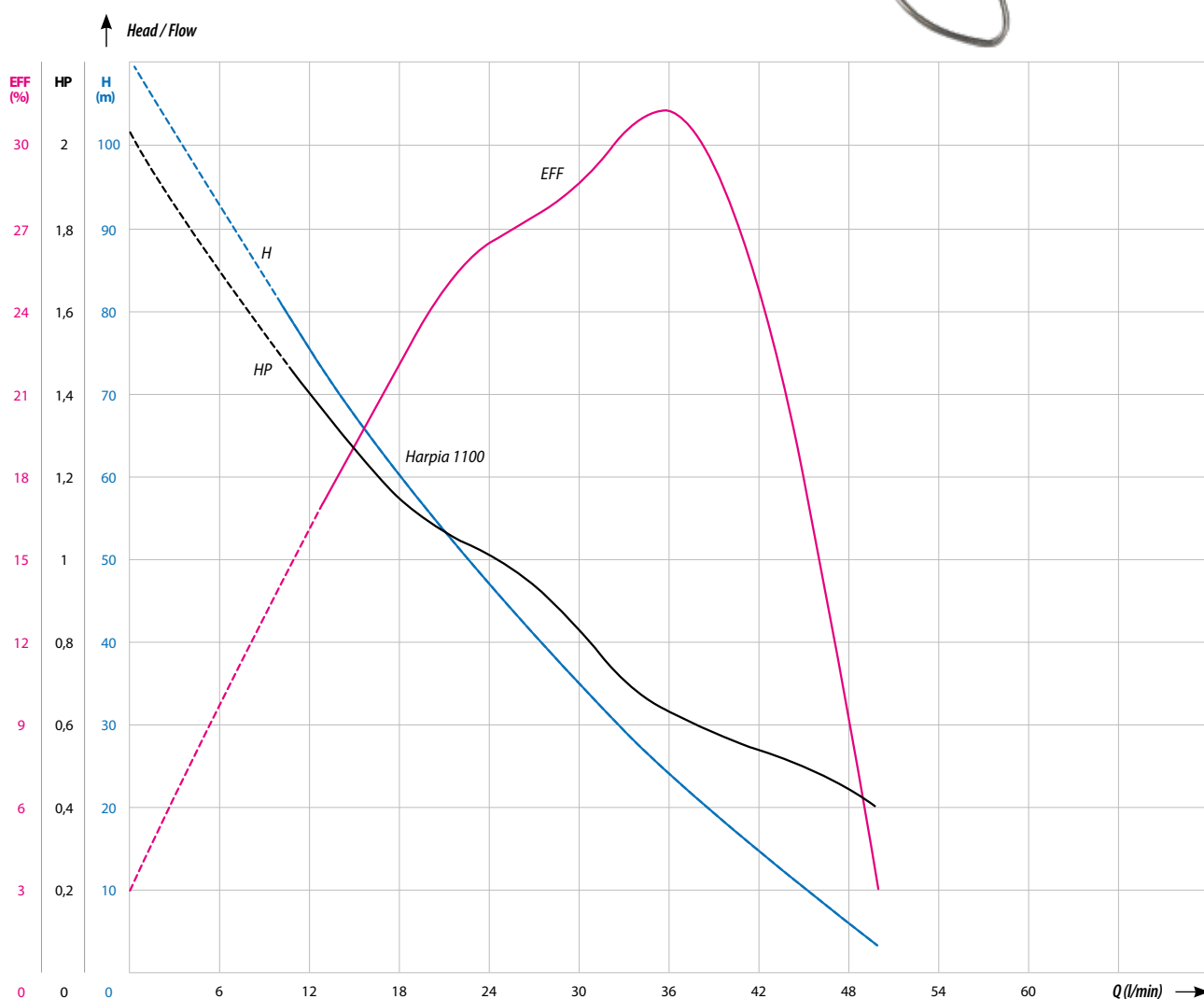
Harpia 1100 is designed for pumping domestic sewage. It is a positive-displacement pump. The pumping unit includes a shaft-integrated disc-shaped wastewater cutting system (called a cutting ring), a spiral-shaped steel impeller and a rubber stator with curves to match the shape of the impeller. Wastewater is pumped through the impeller and stator of the pump until the liquid is reduced in the tank to the cut-off level (in combination with a control plug or control with a float switch). Automatic thermal overload protection shuts down the motor if it overheats due to low voltage, debris in the pump or other problems. The motor cools down in 10 minutes and restarts automatically.

TECHNICAL SPECIFICATIONS:

- Max. medium temperature: 40°C
- Max. medium density: 1150 kg/m³
- pH range: 4–10
- Power supply: 1 ~ 230 V / 50 Hz (S version)
or 3 ~ 400 V / 50 Hz (T version)
- Max. immersion depth: 7 m

ZALETY:

- A small power of 1,1 kW allows for a max. pressure of 110 m
- Disc cutting system grinds wastewater with faecal matter to pump it through narrow pipelines
- High durability



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Connection (mm/inch)	Dimensions L/H/W (cm)	Weight (kg)
HARPIA 1100 S/T	110	50	1100	230 / 400	10,5 / 3,5	DN32 / G1¼	41 / 72 / 32	41

Inverters

INVERTER SYSTEM SMART FLOW

IVR-11

INVERTER SYSTEM IVR-400T

MH PRO SET IVR-11

MULTI SET IVR



INVERTER SYSTEM SMART FLOW

SmartFlow – the first multifunctional and linear inverter pump controller for upgrading and managing most water pumps. It provides consistent water pressure and saves energy for most applications.

The product is integrated with all the required functions of a conventional booster pump with an inverter. With this design, the time and cost of installation of the inverter booster pump are significantly reduced.

The device is dedicated to: deep well pumps, surface pumps, submersible pumps, etc., to maintain a constant preset water pressure by changing the speed of the pump motor.

The SmartFlow model provides multiple modes of operation, adapting to different electrical systems.

FEATURES:

- Energy efficiency. Compared to the traditional water supply method, the constant-pressure water supply system with a frequency converter saves up to 30%-60% of energy.
- Easy to use: the control method is user-friendly; all functions can be executed with the press of a button, without the need for programming experts.
- Long-term reliability of cooperating pumps: average torque and shaft wear are reduced due to a decrease in average speed, which increases the life of the pump. With an integrated soft start and stop function, the device allows hydraulic shock (the sudden increase in pressure that occurs when fluid flow is abruptly stopped or started) to be eliminated.
- Fully protected – the system includes the most comprehensive protections:
 - overcurrent/overvoltage/undervoltage
 - anti-short-circuit
 - impeller blockage
 - dry-running protection technology without the need to install probes/sensors in the well
 - overheating protection
 - leakage warning
 - overpressure protection
 - antifreeze protection

APPLICATION:

- Houses/apartments/holiday houses
- Farms
- Well water supply
- Irrigation of crops, gardens, agricultural land
- Rainwater collection and use
- Industrial equipment

Smart Flow can be used wherever it is required to maintain constant water pressure in the system, as well as control and protection of a single pump, which is automatically switched on and off by various systems.



Installation data	
Permissible ambient temperature	5–50°C
Permissible ambient humidity	20%–90% RH
Permissible liquid temperature	5–50°C
Protection grade	IP55
Installation direction	vertical
Dimensions (length/height/width)	230 / 230 / 170 mm
Ports	G 1 1/4" / G 1 1/4" or G 1 1/2" / G 1 1/2"
Pressue tank capacity	0,6 L
Max. system pressure	10 bar
Max. flow	300 l/min
Technical data	
Output power range	0,37 kW–1,1 kW
Input voltage range	AC 200–240 V / 50–60 Hz (single-phase)
Max. current consumption	8 A
Output voltage range	3 × 230 V / 30–60 Hz (single-phase)
Additional output voltage range	1 × 230 V / 50 Hz
Overload response time	5 s–5 min
Adjustable pressure range	1–6 bar
Type of control	dual flow control pressure monitoring
Operating mode	manual/automatic
Level indicator	pulse electrode or float indicator
Pressure control	24 V, 4–20 mA pressure control

IVR-11

IVR-11 Smart Pump Controller is an easy-to-use control device used for direct connection of single-phase and three-phase deep well pumps, surface pumps, submersible pumps, etc., from 0,75 kW to 7,5 kW (1 hPa to 10 hPa), maintaining a constant preset water pressure by changing the speed of the pump motor.

IVR-11 is a frequency converter drive specifically designed to manage water pump flow, making it adaptable to a wide range of conditions and requirements of water supply systems. IVR-11 allows the pump to operate more efficiently, safely and intelligently, reduce energy consumption and extend the life of the pump.

IVR-11 is made of high-quality components and materials and uses the latest microprocessor technology.

The IVR-11 has multiple operating modes by adapting to different electrical systems. IVR-11 series controllers can be used in groups of up to 5 pumps – max. 1 master and 4 auxiliary devices.



FEATURES:

- Increasing energy flow. Compared to the traditional way of supplying water, the constant pressure system with a frequency converter saves energy by 30%–60%
- Simple operation: all functions can be completed by pressing a button; no need to involve specialists in programming the unit
- Reliability for long years of cooperating pumps: the average torque and abrasion on the shaft decreases due to the decrease in average speed, ensuring longer pump life. The unit's integrated soft start and stop function helps eliminate hydraulic shock. (The hydraulic shock effect is a sudden increase in pressure accompanying the rapid stopping or starting of fluid flow.)
- Comprehensive protection: the system has the most comprehensive protection technology for over-current, over-voltage, under-voltage, short-circuit, impeller blockage, the ability to protect the pump from dry-running without installing probes/sensors in the well.
- Possibility to combine controllers into groups of up to 5 pumps. The group is controlled from a single controller (selected by the user as the master), while the others adjust the operation according to the requirements of the system
- Ingress protection: IP54

APPLICATION:

- Farms
- Water supply from wells
- Irrigation of greenhouses, gardens, fields
- Rainwater collection and use
- Industrial equipment



IVR-11 comes into play whenever it is necessary to maintain constant water pressure in the system and control and protect a single pump managing automatic switching on and off by different electrical systems.

Model	Max. current consumption (A)	Dimensions L/H/W (cm)	Waga (kg)
IVR 11 (0,75–2,2 kW 230 V)	10	100 / 140 / 200	1,8
IVR 11 (2,2 kW 400 V)	5,1	100 / 140 / 200	1,6
IVR 11 (3 kW 230 V)	15,4	137 / 205 / 285	3,2
IVR 11 (3–4 kW 400 V)	9	137 / 205 / 285	3,2
IVR 11 (5,5–7,5 kW 400 V)	17	137 / 205 / 285	3,4

IVR-11 cont.

Technical parameters		
Control features	Control mode	V/F variable frequency control
	Starting torque	0,5 Hz $\pm$ 100%
	Speed adjustment range	1:100
	Precision in maintaining speed	$\pm$ 1%
	Overload tolerance	150% of rated current for 60 s; 180% of rated current for 1 s
	Acceleration/deceleration time	0,1–600 s
Input and output parameters	Starting frequency	0,01–10 Hz
	Input voltage	230 V AC -18% to +10% 400 V AC -18% to +10%
	Input frequency range	50/60 Hz, fluctuation $\pm$ 5%
	Output voltage	0
	Output frequency	0–200 Hz
External devices interface	Programmable digital input	2-way digital output connector
	Programmable analogue input	V: 0–5 V V (remote pressure gauge): 0–10 V C (pressure transmitter): 4–20 mA
	Relay output	1-way output, programmable
	°C type output	1-way output, programmable
Basic functions	Command execution channel	Three types of channels: 1. Operations panel 2. Control terminal 3. Serial communication port, select 1 and 2 for main drive and 3 for auxiliary equipment
	Integrated PID controller	Advanced PID controller arithmetic for closed loop control system operation
	Stall speed control	Automatic limitation of current and voltage during the operating period, which prevents tripping due to frequent overcurrent or overvoltage
	Interface of master and auxiliary drives	Extensible RS485 design; one drive in the system can be the master and control other auxiliary drives (up to four) for communication-mode operation. Main drive sends PID controller feedback to auxiliary drives and monitors their status in real time. Auxiliary drive faults do not affect other drives.
	Protection against lack of water	If the drive detects that the pressure in the pipe is lower than the set water shortage pressure, the system automatically stops operating. After a certain time, it restarts automatically in certain cases. If the pressure returns to normal, the system operates normally. Otherwise, the system stops automatically which, if the pump is idle, extends its useful life to the maximum
	High-pressure alarm	When the pressure exceeds the set value, the system stops working automatically, avoiding damage to pipes due to excessive pressure
	Automatic power saving mode	Automatically reduces the output voltage at light load to save energy
	Password setting	The 4-bit password can be set using non-zero numbers. After exiting the setting interface, the password will be valid in 1 minute
	Parameter locking	Determine whether the parameter is blocked in the running state or stopped in case of improper operation
Operating conditions	Installation	Installation should be performed in conditions free of direct sunlight, dust, corrosive and flammable gases, oil mist, steam and moisture
	Altitude	Below 1.000 m; altitudes above 1.000 m negatively affect flow. Flow reduced by 1% every 100 m with rising temperature
	Ambient temperature	-10–40°C reduced flow operation at 40–50°C Reduction by 4% in 1°C increments as altitude increases
	Moisture	$\leq$ 95% RH, no condensation
	Vibrations	< 5,9 m / S ₂ (0,6 G)

INVERTER SYSTEM

IVR-400T

The IVR-400T Smart Pump Controller is an easy-to-use control and protection device for direct connection of three-phase deep well pumps, surface pumps, submersible pumps, etc. with a capacity of 11 kW to 37 kW (from 15 hPa to 50 hPa), maintaining a constant preset water pressure by changing the speed of the pump motor.

IVR-400T is a three-phase frequency converter drive specifically designed to manage water pump flow, making it adaptable to a wide range of conditions and requirements of water supply systems.

IVR-400T allows the pump to operate more efficiently, safely and intelligently, reducing energy consumption and extending the life of the pump.

IVR-400T is made of high-quality components and materials and uses the latest microprocessor technology. IVR-400T has multiple operating modes by adapting to different electrical systems.

FEATURES:

- Energy performance: compared with the traditional way, the constant pressure water supply system with a frequency converter saves energy by 30%-60%
- Simple operation: all functions can be completed by pressing a button; no need to involve specialists in programming.
- Reliability for long years of cooperating pumps: the average torque and abrasion on the shaft decreases due to the decrease in average speed, ensuring longer pump life. The soft-start and stop function of the device helps eliminate hydraulic shock (hydraulic shock effect means a sudden increase in pressure accompanying a rapid stop or start of fluid flow).
- Comprehensive protection: the system has the most comprehensive protection technology for over-current, over-voltage, under-voltage, short-circuit, impeller blockage, the ability to protect the pump from dry-running without installing probes/sensors in the well
- Possibility to combine controllers into groups of up to 6 pumps. The group is controlled from a single controller selected by the user as the main one. The other units adapt the work to the requirements of the system



APPLICATION:

- Farms
- Water supply from wells
- Irrigation of greenhouses, gardens, fields
- Rainwater collection and use
- Industrial equipment

IVR-400T comes into play whenever it is necessary to maintain constant water pressure in the system and control and protect a single pump managing automatic switching on and off by different electrical systems.

Model	Input and output voltage	Power (kW)	Output current (A)	Mounting hole (Ø mm)	Dimensions L/H/W (cm)
IVR400M-2SR75A0	1 ~ 230 V on input 1 ~ 230 V on output	0,75	4	2	14 / 11 / 8,6
IVR400M-2S1R5A0		1,5	7	2	14 / 11 / 8,6
IVR400M-2S2R2A0		2,2	8,2	2	15 / 12 / 10
IVR400T-4TR75A0	3 ~ 400 V on input 3 ~ 400 V on output	0,75	2,1	2	15 / 12 / 10
IVR400T-4T1R5A0		1,5	3,8	2	15 / 12 / 10
IVR400T-4T2R2A0		2,2	5,1	2	15 / 12 / 10
IVR400T-4T004A0		4	9	5	22 / 17 / 11
IVR400T-4T5R5A0		5,5	13	5	22 / 17 / 11
IVR400T-4T7R5A0		7,5	16	5	22 / 17 / 11
IVR400T-4T011A0		11	25	6,5	27 / 17 / 16
IVR400T-4T015A0		15	32	6,5	27 / 17 / 16
IVR400T-4T18R5A0		18,5	38	8,5	30 / 17 / 19
IVR400T-4T022A0		22	45	8,5	30 / 17 / 19
IVR400T-4T030A0		30	60	8,5	35 / 17 / 23
IVR400T-4T037A0		37	75	8,5	35 / 17 / 23

INVERTER SYSTEM IVR-400T cont.

Technical parameters		
Control features	Control mode	V/F variable frequency control
	Starting torque	0,5 Hz $\pm$ 100%
	Speed adjustment range	1:100
	Precision in maintaining speed	$\pm$ 1%
	Overload tolerance	150% of rated current for 60 s; 180% of rated current for 1 s
	Acceleration/deceleration time	0,1–600 s
Input and output parameters	Starting frequency	0,01–10 Hz
	Input voltage	400 V $\pm$ 15%
	Input frequency range	50 / 60 Hz, fluctuation $\pm$ 5%
	Output voltage	0
	Output frequency	0–200 Hz
External devices interface	Programmable digital input	2-way digital output connector
	Programmable analogue input	V: 0-5 V V (remote pressure gauge): 0-10 V C (pressure transmitter): 4-20 mA
	Relay output	1-way output, programmable
	°C output type	1-way output, programmable
Basic functions	Command execution channel	Three types of channels: 1. Operations panel 2. Control terminal, 3. Serial communication port, select 1 and 2 for main drive and 3 for auxiliary equipment
	Integrated PID controller	Advanced PID controller arithmetic for closed loop control system operation
	Stall speed control	Automatic limitation of current and voltage during the operating period
	Interface of master and auxiliary drives	Extensible RS485 design; one drive in the system can be the master and control other auxiliary drives (up to four) for communication-mode operation. Main drive sends PID controller feedback to auxiliary drives and monitors their status in real time. Auxiliary drive faults do not affect other drives.
	Protection against lack of water	If the drive detects that the pressure in the pipe is lower than the set water shortage pressure, the system automatically stops operating. After a certain time, it restarts automatically in certain cases. If the pressure returns to normal, the system operates normally. Otherwise, the system stops automatically, which, if the pump is idle, extends its useful life to the maximum
	High-pressure alarm	When the pressure exceeds the set value, the system stops working automatically, avoiding damage to pipes due to excessive pressure
	Automatic power saving mode	Automatically reduces the output voltage on low load to save energy
	Password setting	The 4-bit password can be set using non-zero numbers. After exiting the setting interface, the password will be valid in 1 minute
	Parameter locking	Determine whether the parameter is blocked in the running state or stopped in case of improper operation
Operating conditions	Installation	Installation should be performed in conditions free of direct sunlight, dust, corrosive and flammable gases, oil mist, steam and moisture
	Altitude	Below 1.000 m; altitudes above 1.000 m negatively affect flow. Flow reduced by 1% every 100 m with rising temperature
	Ambient temperature	-10–40°C reduced flow operation at temp. 40–50°C
	Moisture	$\leq$ 95% RH, no condensation
	Vibrations	< 5,9 m / S ² (0,6 G)

MH PRO SET IVR-11

Hydrophore sets consisting of a pump and an inverter. MH PRO pumps are self-priming centrifugal pumps with the highest quality of workmanship. The IVR-11, on the other hand, is a smart controller that controls the operation of the pump according to the demand of the system. The IVR-11 model is an easy-to-use control device that protects and maintains a constant preset water pressure by varying the speed of the pump motor. The biggest advantage of combining the MH PRO series pumps with the IVR-11 is that they have a 3 ~ 230 V power supply, compatible with the IVR-11 series inverters. On the other hand, the set can be connected to a single-phase network of 1 ~ 230 V. Such a connection provides significant savings in electricity consumption.

IVR-11 is a frequency converter drive specifically designed to manage water pump flow. The device can be adapted to a wide range of conditions and requirements of water supply systems. IVR-11 allows the pump to operate more efficiently and safely, reduce energy consumption and extend the life of the pump. IVR-11 is made of high-quality components and materials and uses the latest microprocessor technology. MH PRO pumps are robust devices with a very wide range of applications from domestic systems to continuous operation in small industrial systems and agriculture. The pump shaft is made of AISI 304 stainless steel (DIN 1.4301); the impeller bushings are made of brass.

APPLICATION:

Households:

- water supply
- watering (including sprinkler operation)
- pressure boosting
- rainwater management

Farms:

- irrigation of greenhouses, gardens, fields
- rainwater collection and use

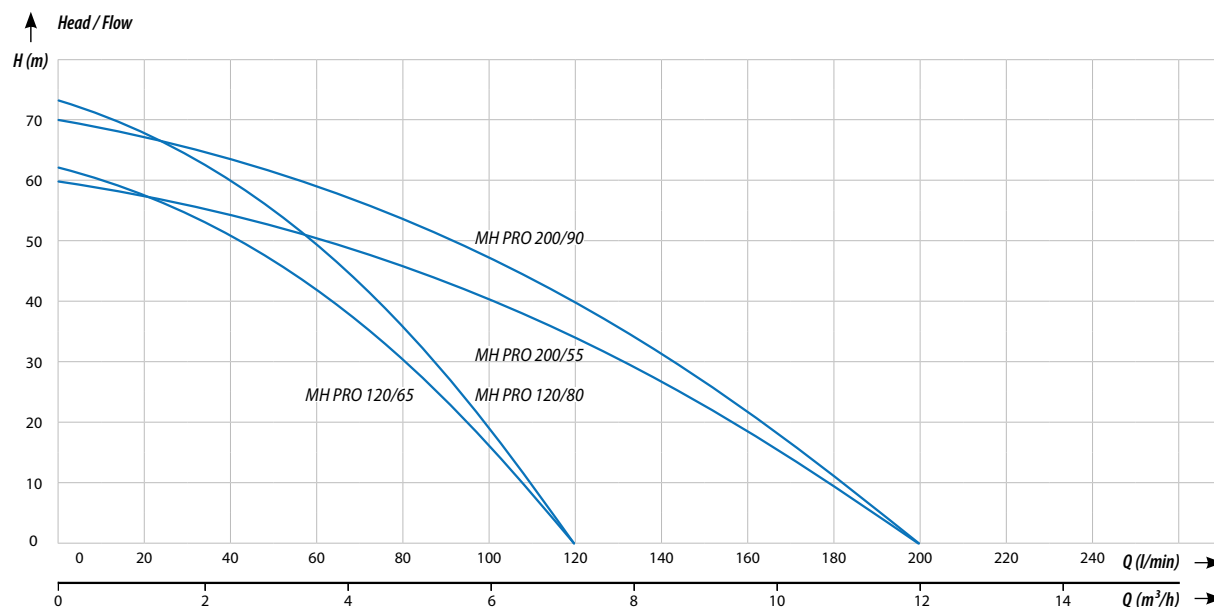


TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 70°C
- Max. ambient temperature: 50°C
- Insulation grade: F
- Ingress protection: IP55
- Max. system pressure: 10 bar
- Possibility of alternate operation of the controlled pumps
- Possibility of setting up a backup pump in a multi-pump set-up

MATERIALS:

- Body: AISI 304 stainless steel
- Shaft: AISI 304 stainless steel
- Mechanical seal: SiC / SiC / EPDM
- Ports: grey cast iron
- Impellers, diffusers: polymer PPO
- Base: cast iron
- Asynchronous squirrel cage motor of closed design in aluminium housing with external ventilation



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Suction capacity (m)	Ports (inches)	Dimensions L/H/W (cm)	Weight (kg)
MH PRO 120/65	62	120	1500	230 / 400	3,3	9	1 × 1	49 / 16 / 19	11,5
MH PRO 120/80	73	120	1500	230 / 400	3,3	9	1 × 1	52 / 16 / 19	12,5
MH PRO 200/55	60	200	1850	230 / 400	4	9	1¼ × 1¼	52 / 16 / 19	18
MH PRO 200/90	70	200	2200	230 / 400	5,5	9	1¼ × 1¼	55 / 16 / 19	18

MULTI SET IVR

Set equipped with IVR-09 frequency converter (400 V) along with CVI series pump(s). Multi-Set is an easy-to-use device designed to pump clean water to raise the pressure in systems, maintaining a constant preset water pressure by varying the speed of the pump motor, and in addition performing control and safety functions.

FEATURES:

- Energy performance: reduced energy consumption by 30%-60%
- Ease of operation: all functions can be completed by pressing a button
- Reliability: the average torque and abrasion on the shaft decreases due to the decrease in average speed, ensuring longer pump life. The unit's integrated soft start and stop function helps eliminate hydraulic shock
- Comprehensive protection: the system has the most comprehensive protection technology for over-current, over-voltage, under-voltage, short-circuit, impeller blockage, the ability to protect the pump from dry-running without installing probes/sensors in the well
- Control of the operation of two pumps supplying the system
- Low noise

TECHNICAL SPECIFICATIONS:

- Pumps $\times 1 / \times 2 / \times 3 / \times 4 / \times 5 / \times 6$: (CVI 3 INOX – CVI 15 INOX)
- Frequency converter: IVR-09 (400 V)
- Steel system: IBO ITALY
- Check and shut-off fittings
- Pressure vessel: IBO ITALY

APPLICATION:

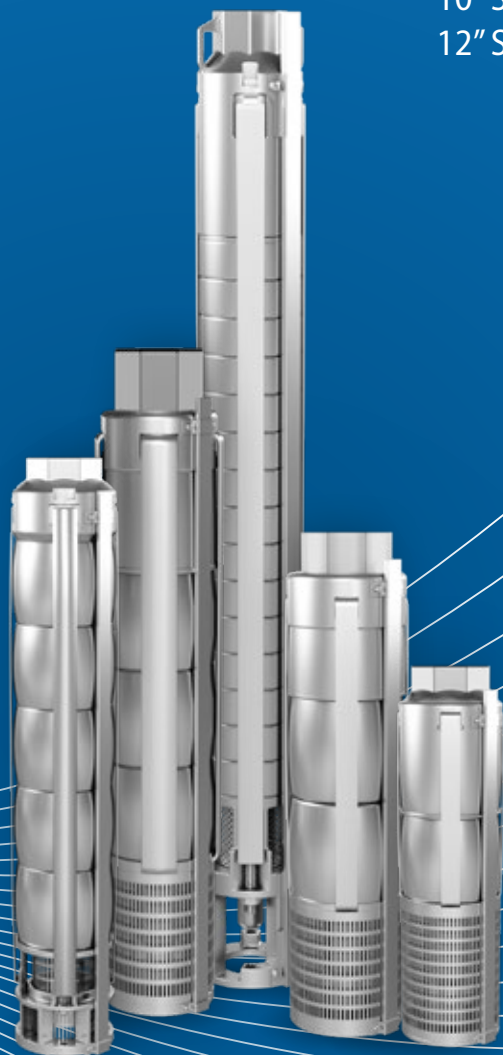
- Houses
- Apartments
- Holiday cottages
- Farms
- Water supply from wells
- Irrigation of greenhouses, gardens, fields
- Rainwater collection and use



Model	Head (m)	Flow (m ³ /h)	Pressure (bar)	Water temp. (°C)	Ambient temp. (°C)	Suction port (inches)	Discharge port (inches)
MULTI SET IVR	220	5-84	16	+90	+40	1½-2	1½-2

SPINOX deep well pumps

4" SPINOX
6" SPINOX
8" SPINOX
10" SPINOX
12" SPINOX



4" SPINOX

Multi-stage deep well pumps with a diameter of 98 mm. Entirely made of stainless steel, designed for installation in wells with a minimum internal diameter of 115 mm. The pumps are used to supply water to single- and multi-family houses, farms, as well as to power irrigation systems (sprinklers, drip lines). The pumps are also used in industrial and drainage applications.

FEATURES:

- Pumps made entirely of stainless steel
- Increased wear resistance
- Integrated check valve
- Available with water-filled motors – WMC, oil-filled motors – IOM by iQ PR and Italian oil-filled motors – IBO Italy
- Starting box (in 230 V version) with an integrated overcurrent protection and capacitor
- Thermal protection integrated into the motor winding (230 V version)
- Possibility to attach a cable of a certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

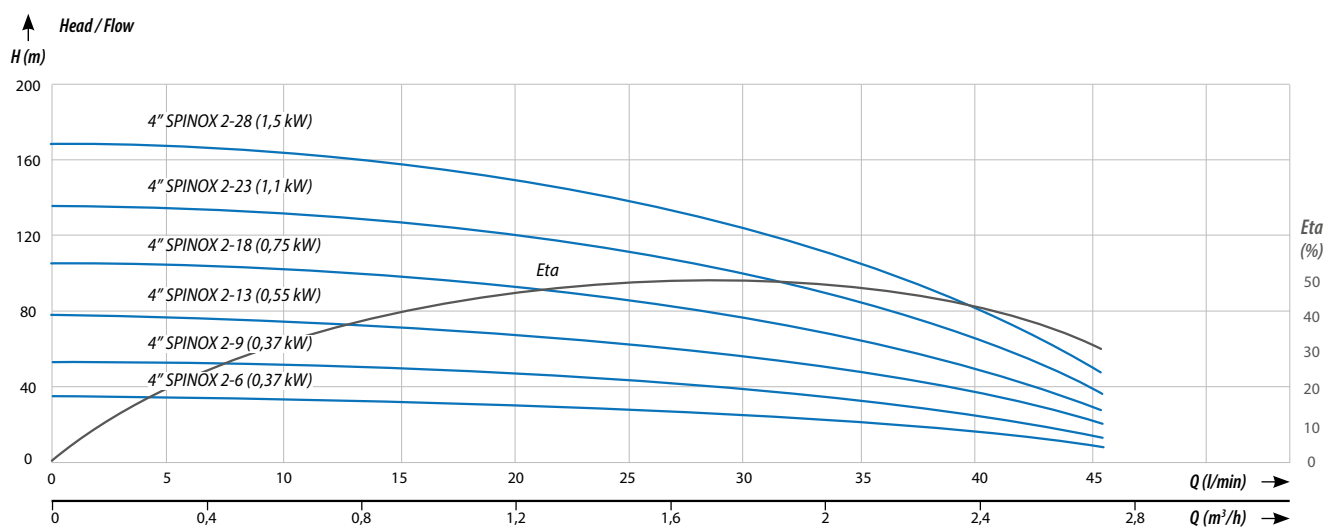
- Max. liquid temperature: 35°C
- Power supply: 230 V or 400 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Power cord length: 1,5 m
- Motor speed: 2850

MATERIALS:

- Suction/discharge body: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR



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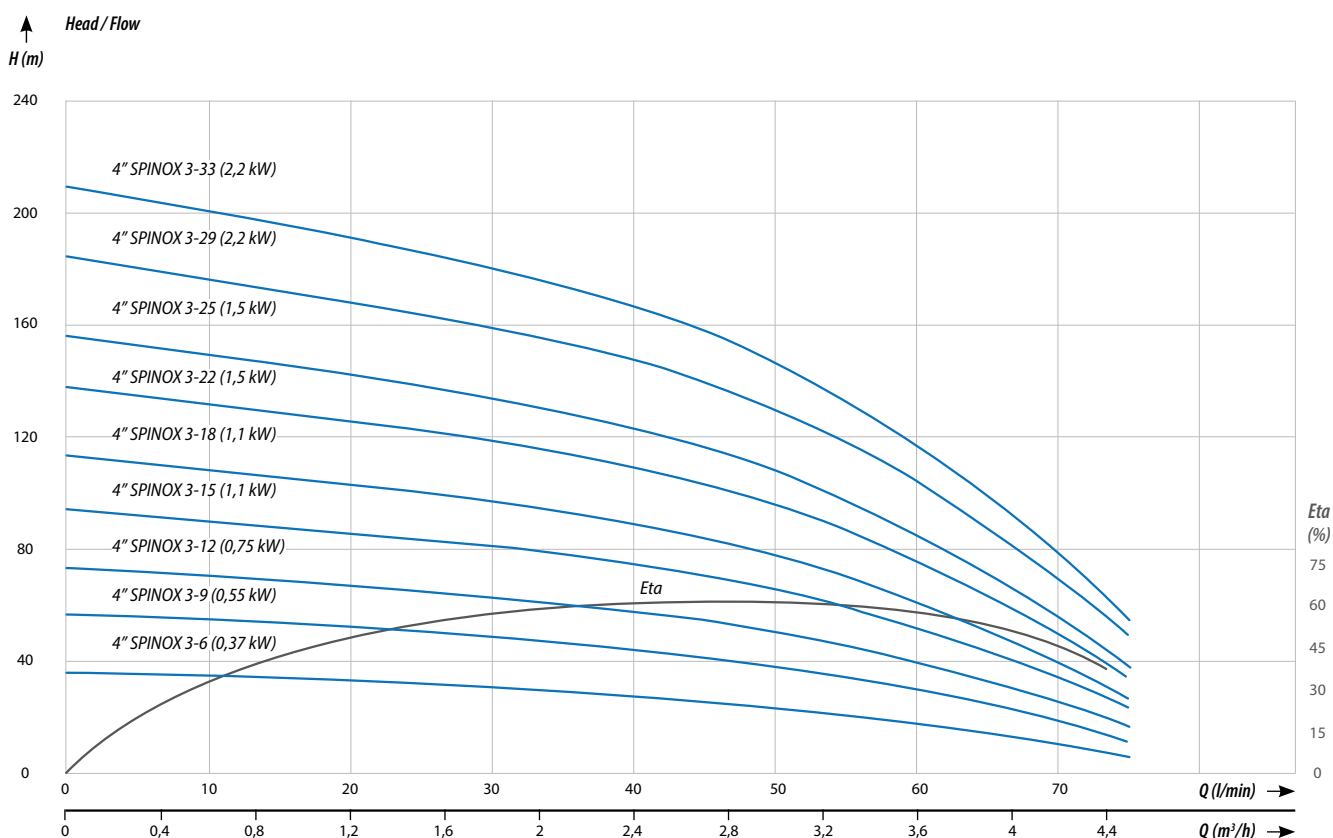


4" SPINOX 2			Flow (Q)							
Model	Flow (l/min)	Motor power (kW)	m³/h	0	1	1,4	1,8	2	2,4	2,8
			l/min	0	16,7	23,4	30,1	33,4	40,1	46,8
4" SPINOX 2-6	50	0,37	Head H (m)	36	33	30	26	24	17	13
4" SPINOX 2-9	50	0,37		53	48	44	38	34	24	17
4" SPINOX 2-13	50	0,55		77	70	64	55	50	35	26
4" SPINOX 2-18	50	0,75		107	97	89	77	69	49	36
4" SPINOX 2-23	50	1,1		137	124	114	99	90	64	47
4" SPINOX 2-28	50	1,5		167	152	140	122	110	79	59

Model	Motor power (kW)	Voltage (V)	Discharge outlet (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length *	Length* with motor Water-filled	Length* with motor – Oil-filled	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 2-6	0,37	230 / 400	1¼	2,8 / 1,1	–	363	634	–	97	16,5	–
4" SPINOX 2-9	0,37	230 / 400	1¼	2,8 / 1,1	–	462	697	–	97	17	–
4" SPINOX 2-13	0,55	230 / 400	1¼	3,8 / 1,5	–	510	801	–	97	18	–
4" SPINOX 2-18	0,75	230 / 400	1¼	4,9 / 2,2	–	615	906	–	97	20	–
4" SPINOX 2-23	1,1	230 / 400	1¼	7,5 / 2,7	8,3 / 3,3	720	1059	1152	97	24	20
4" SPINOX 2-28	1,5	230 / 400	1¼	10,3 / 4,1	11 / 4,3	825	1229	1297	97	27	23

* Dimensions given in mm

4" SPINOX cont.

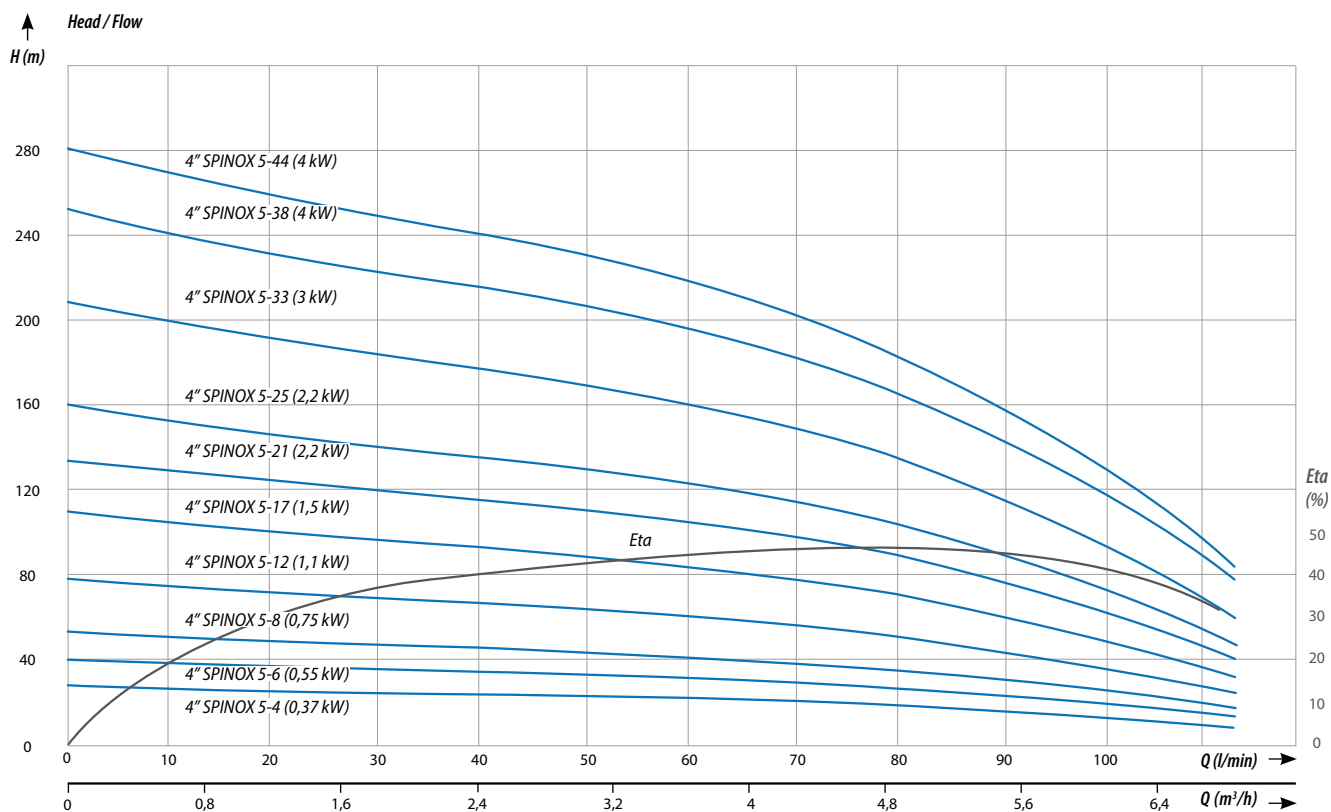


4" SPINOX 3			Flow (Q)										
Model	Flow (l/min)	Motor power (kW)	m³/h	0	1	1,4	1,8	2	2,4	2,8	3,4	4	4,4
			l/min	0	16,7	23,4	30,1	33,4	40,1	46,8	56,8	66,8	73,5
4" SPINOX 3-6	75	0,37	Head H (m)	38	35	34	32	31	30	27	22	15	12
4" SPINOX 3-9	75	0,55		57	54	51	49	47	45	41	33	23	19
4" SPINOX 3-12	75	0,75		76	70	68	65	64	60	55	45	31	26
4" SPINOX 3-15	75	1,1		95	87	85	82	80	76	70	57	40	33
4" SPINOX 3-18	75	1,1		113	105	101	97	95	89	82	67	46	38
4" SPINOX 3-22	75	1,5		139	129	125	120	117	110	101	83	57	47
4" SPINOX 3-25	75	1,5		157	145	140	135	131	124	113	92	63	52
4" SPINOX 3-29	75	2,2		184	171	166	159	156	147	136	111	78	65
4" SPINOX 3-33	75	2,2		209	194	187	180	176	166	152	125	87	72

Model	Motor power (kW)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulic length*	Length* with motor Water-filled	Length* with motor – Oil-filled	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 3-6	0,37	230 / 400	1¼	2,8 / 1,1	–	363	634	–	97	16,5	–
4" SPINOX 3-9	0,55	230 / 400	1¼	3,8 / 1,5	–	426	717	–	97	17	–
4" SPINOX 3-12	0,75	230 / 400	1¼	4,9 / 2,2	–	489	780	–	97	18,5	–
4" SPINOX 3-15	1,1	230 / 400	1¼	7,5 / 2,7	8,3 / 3,3	552	891	984	97	22,5	18
4" SPINOX 3-18	1,1	230 / 400	1¼	7,5 / 2,7	8,3 / 3,3	615	954	1047	97	23	18,5
4" SPINOX 3-22	1,5	230 / 400	1¼	10,3 / 4,1	11 / 4,3	699	1103	1171	97	26	21,5
4" SPINOX 3-25	1,5	230 / 400	1¼	10,3 / 4,1	11 / 4,3	762	1166	1234	97	26,5	22
4" SPINOX 3-29	2,2	230 / 400	1¼	14,5 / 6,3	15,8 / 6	846	1384	1431	97	34,5	27,5
4" SPINOX 3-33	2,2	230 / 400	1¼	14,5 / 6,3	15,8 / 6	930	1468	1515	97	35,5	28,5

* Dimensions given in mm

4" SPINOX cont.

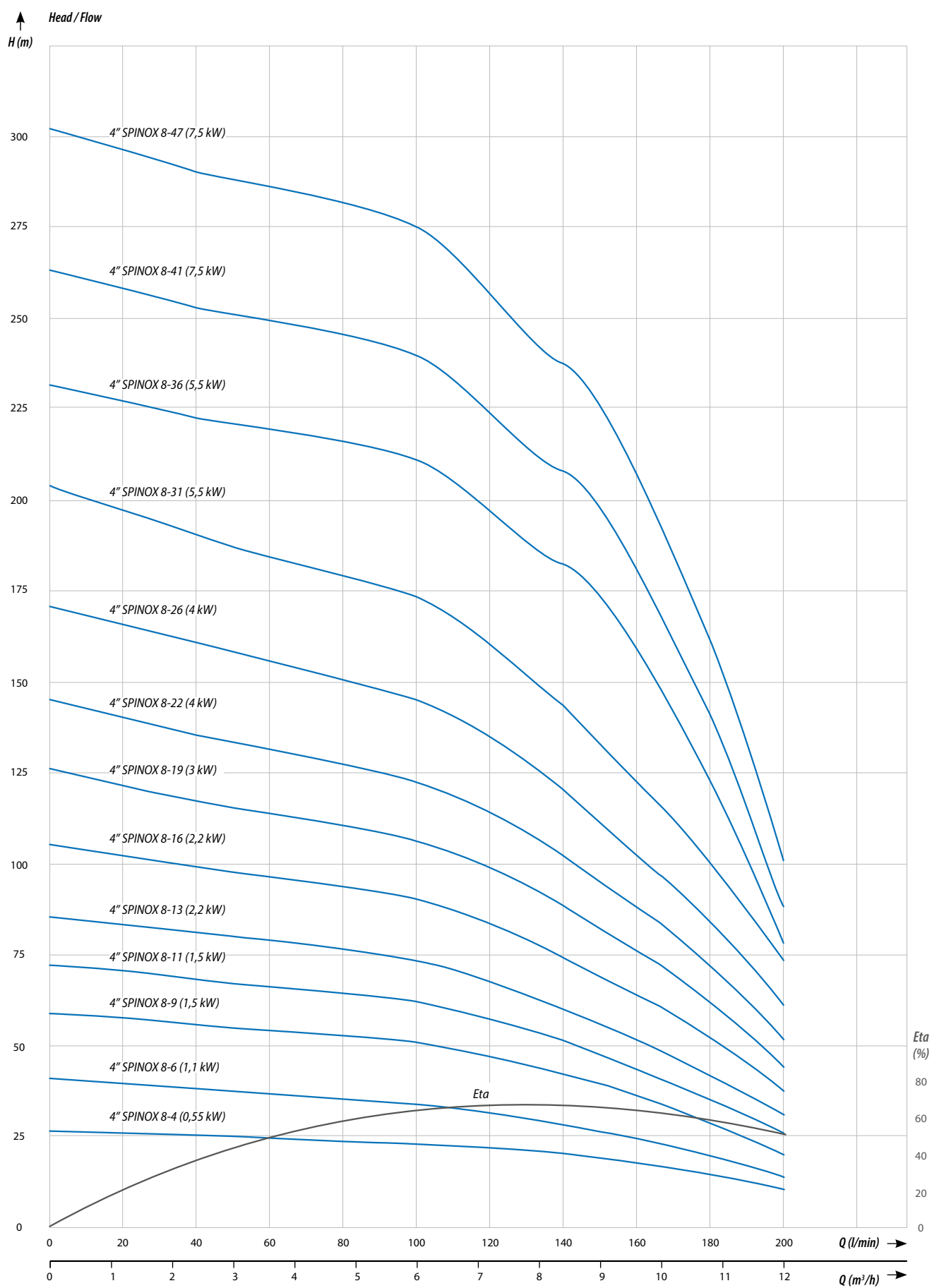


4" SPINOX 5			FLOW (Q)										
Model	Flow (l/min)	Motor power (kW)	m³/h	0	1,4	2	2,8	3,4	4	4,4	5	6	6,7
			l/min	0	23,4	33,4	46,8	56,8	66,8	73,5	83,5	100,2	111,6
4" SPINOX 5-4	115	0,37	Head H (m)	26	23	22	21	20	19	18	16	11	9
4" SPINOX 5-6	115	0,55		38	35	33	32	30	28	26	24	17	11
4" SPINOX 5-8	115	0,75		51	47	45	43	40	38	36	32	23	15
4" SPINOX 5-12	115	1,1		77	70	67	63	60	56	54	47	35	23
4" SPINOX 5-17	115	1,5		109	97	94	90	85	80	75	67	49	32
4" SPINOX 5-21	115	2,2		135	122	118	112	106	100	95	85	63	42
4" SPINOX 5-25	115	2,2		160	145	139	131	125	118	112	99	72	48
4" SPINOX 5-33	115	3		211	190	183	173	166	155	148	130	95	62
4" SPINOX 5-38	115	4		250	229	219	209	199	186	177	157	115	76
4" SPINOX 5-44	115	4		281	257	245	232	220	207	195	174	127	84

Model	Motor power (kW)	Voltage (V)	Discharge outlet (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with motor Water-filled	Length* with motor Oil-filled	Pump diameter* (mm)	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 5-4	0,37	230 / 400	1½	2,8 / 1,1	–	321	563	–	97	16	–
4" SPINOX 5-6	0,55	230 / 400	1½	3,8 / 1,5	–	363	634	–	97	16,5	–
4" SPINOX 5-8	0,75	230 / 400	1½	4,9 / 2,2	–	405	696	–	97	18	–
4" SPINOX 5-12	1,1	230 / 400	1½	7,5 / 2,7	8,3 / 3,3	489	828	921	97	21,5	17,5
4" SPINOX 5-17	1,5	230 / 400	1½	10,3 / 4,1	11 / 4,3	594	998	1066	97	25	20,5
4" SPINOX 5-25	2,2	230 / 400	1½	14,5 / 6,3	15,8 / 6	678	1216	1263	97	32,5	26
4" SPINOX 5-21	2,2	230 / 400	1½	14,5 / 6,3	15,8 / 6	762	1300	1347	97	33,5	27
4" SPINOX 5-33	3	400	1½	8,1	8	930	1508	1490	97	37,5	27,5
4" SPINOX 5-38	4	400	1½	10,4	10,4	1035	1725	1669	97	43,5	33,5
4" SPINOX 5-44	4	400	1½	10,4	10,4	1465	2155	2099	97	48,5	38,5

* Dimensions given in mm

4" SPINOX cont.



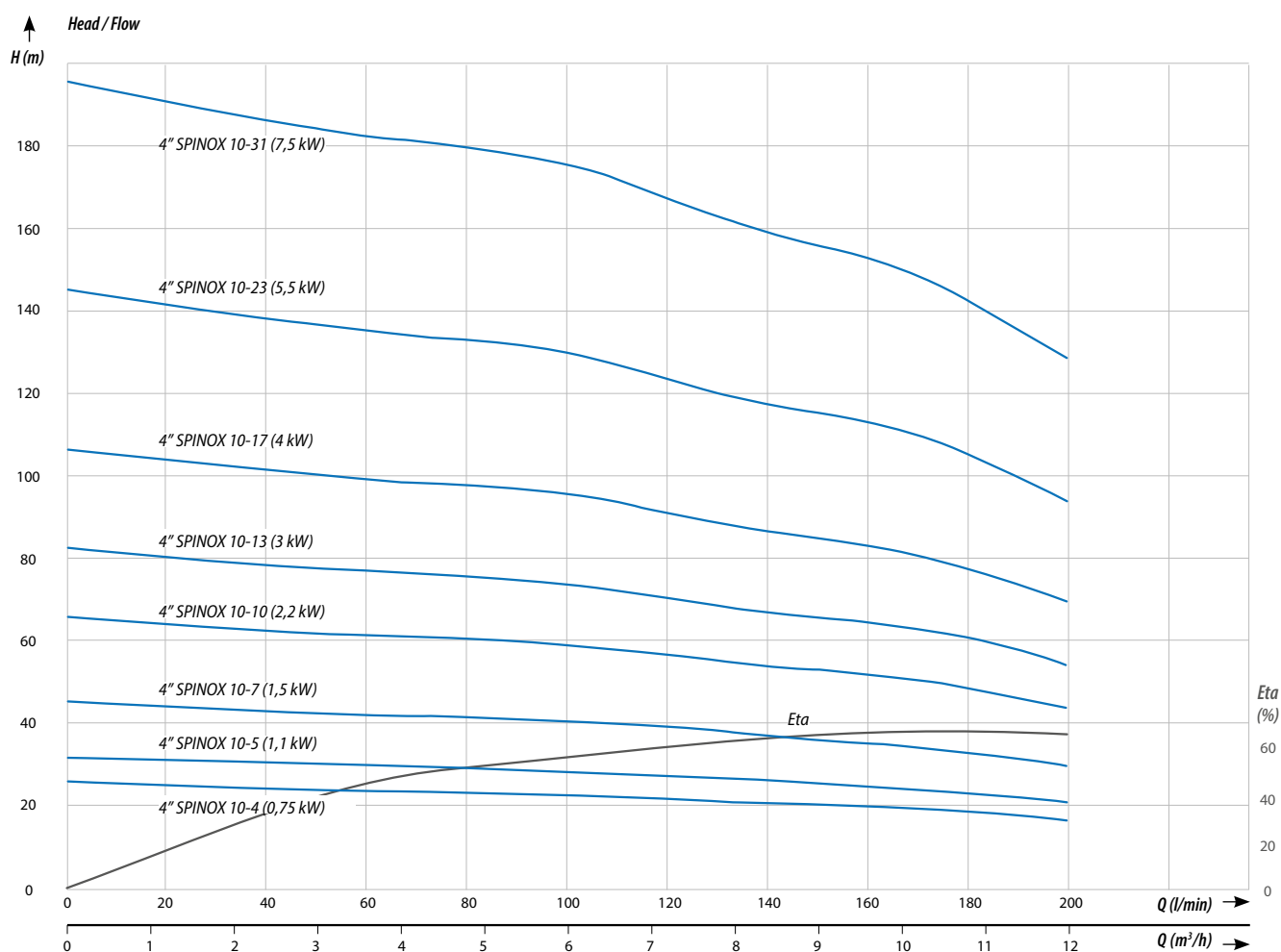
4" SPINOX cont.

4" SPINOX 8			FLOW (Q)							
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	3	6	8	9	11	12
			l/min	0	50	100	130	150	180	200
4" SPINOX 8-4	200	0,55	Head H (m)	26	24	22	20	17	13	9
4" SPINOX 8-6	200	1,1		39	36	33	29	26	19	14
4" SPINOX 8-9	200	1,5		59	54	50	44	39	29	21
4" SPINOX 8-11	200	2,2		72	66	61	54	47	35	26
4" SPINOX 8-13	200	2,2		85	78	72	63	56	42	31
4" SPINOX 8-16	200	2,2		105	96	89	78	69	52	38
4" SPINOX 8-19	200	3		124	114	105	93	81	61	45
4" SPINOX 8-22	200	4		144	132	122	107	94	71	52
4" SPINOX 8-26	200	4		170	156	144	127	111	84	61
4" SPINOX 8-31	200	5,5		203	186	172	151	133	100	73
4" SPINOX 8-36	200	5,5		231	220	210	188	173	123	77
4" SPINOX 8-41	200	7,5		263	251	239	214	197	140	88
4" SPINOX 8-47	200	7,5		302	288	274	245	226	161	101

Model	Motor power (kW)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with motor Water-filled	Length* with motor – Oil-filled	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 8-4	0,55	230 / 400	2	3,8 / 1,5	–	418	709	–	97	17	–
4" SPINOX 8-6	1,1	230 / 400		7,5 / 2,7	8,3 / 3,3	518	858	950	97	21	16,5
4" SPINOX 8-9	1,5	230 / 400		10,3 / 4,1	11 / 4,3	668	1073	1140	97	24,5	20,5
4" SPINOX 8-11	2,2	230 / 400		10,3 / 4,1	11 / 4,3	768	1173	1240	97	25,5	21
4" SPINOX 8-13	2,2	230 / 400		14,5 / 6,3	15,8 / 6	868	1407	1453	97	33,5	27
4" SPINOX 8-16	2,2	230 / 400		14,5 / 6,3	15,8 / 6	1018	1557	1603	97	35	28,5
4" SPINOX 8-19	3	400		8,1	8	1168	1747	1728	97	38,5	28,5
4" SPINOX 8-22	4	400		10,4	10,4	1318	2010	1952	97	45	35
4" SPINOX 8-26	4	400		10,4	10,4	1518	2210	2152	97	47	37
4" SPINOX 8-31	5,5	400		13,4	13,9	1768	2537	2512	97	53,5	45,5
4" SPINOX 8-36	5,5	400		13,4	13,9	2018	2787	2762	97	56	48
4" SPINOX 8-41	7,5	400		18	18,7	2268	3096	3097	97	61,5	55,5
4" SPINOX 8-47	7,5	400		18	18,7	2568	3396	3397	97	64,5	58,5

* Dimensions given in mm

4" SPINOX cont.

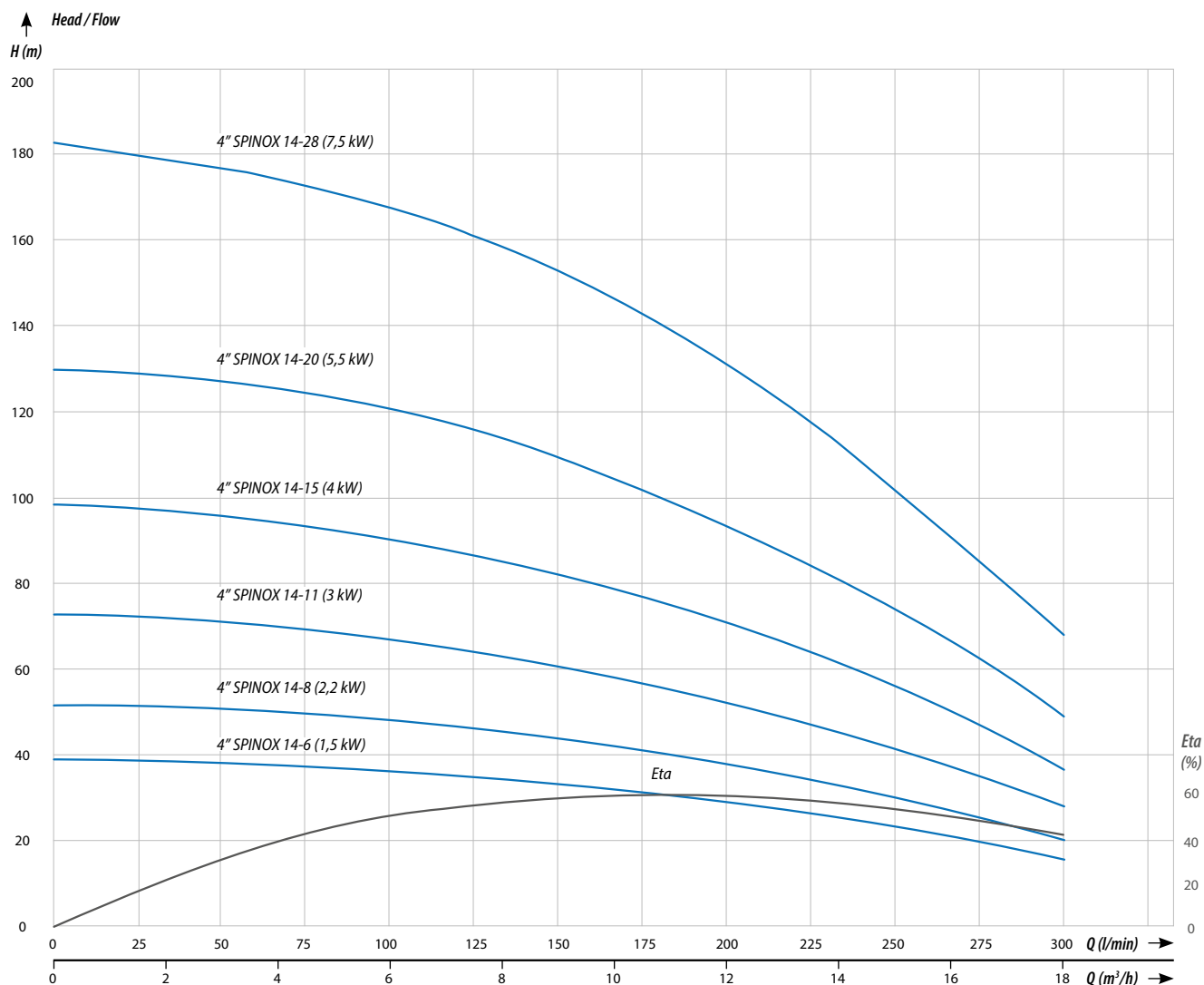


4" SPINOX 10			Flow (Q)							
Model	Flow (l/min)	Motor power (kW)	m³/h	0	2	4	6	8	10	12
			l/min	0	33,4	66,7	100	133,4	167	200
4" SPINOX 10-4	245	0,75	Head H (m)	27	26	25	24	22	20	18
4" SPINOX 10-5	245	1,1		34	33	31	30	28	25	23
4" SPINOX 10-7	245	1,5		47	46	44	42	39	35	32
4" SPINOX 10-10	245	2,2		68	65	63	60	55	50	45
4" SPINOX 10-13	245	3		88	85	81	78	72	65	59
4" SPINOX 10-17	245	4		115	111	106	102	94	85	77
4" SPINOX 10-23	245	5,5		155	150	144	138	127	115	104
4" SPINOX 10-31	245	7,5		209	202	194	186	171	155	140

Model	Motor power (kW)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with motor Water-filled	Length* with motor – Oil-filled	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 10-4	0,75	230 / 400	2	7,5 / 2,7	8,3 / 3,3	495	834	924	97	21,5	17
4" SPINOX 10-5	1,1	230 / 400	2	7,5 / 2,7	8,3 / 3,3	560	899	992	97	22,5	18
4" SPINOX 10-7	1,5	230 / 400	2	10,3 / 4,1	11 / 4,3	690	1094	1162	97	25,5	21
4" SPINOX 10-10	2,2	230 / 400	2	14,5 / 6,3	15,8 / 6	885	1423	1470	97	34,5	27,5
4" SPINOX 10-13	3	400	2	8,1	8	1080	1770	1640	97	38,5	28,5
4" SPINOX 10-17	4	400	2	10,4	10,4	1340	2030	1974	97	46	36
4" SPINOX 10-23	5,5	400	2	13,4	13,9	1730	2497	2474	97	54	46
4" SPINOX 10-31	7,5	400	2	18	18,7	2250	3075	3079	97	62,5	56,5

* Dimensions given in mm

4" SPINOX cont.



4" SPINOX 14			Flow (Q)							
Model	Flow (l/min)	Motor power (kW)	m³/h	0	6	9	11	12	14	18
				l/min	100	150	183,4	200	233,4	300
4" SPINOX 14-6	335	1,5	Head H (m)	39	36	32	29	28	24	14
4" SPINOX 14-8	335	2,2		52	48	42	39	37	32	19
4" SPINOX 14-11	335	3		72	66	58	54	51	44	26
4" SPINOX 14-15	335	4		98	90	80	74	70	60	36
4" SPINOX 14-20	335	5,5		130	120	106	98	93	80	48
4" SPINOX 14-28	335	7,5		182	168	148	137	131	112	67

Model	Motor power (kW)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with motor Water-filled	Length* with motor – Oil-filled	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
4" SPINOX 14-6	1,5	230 / 400	2	10,3 / 4,1	11 / 4,3	625	1029	1097	97	25	20,5
4" SPINOX 14-8	2,2	230 / 400	2	14,5 / 6,3	15,8 / 6	755	1293	1340	97	33	26,5
4" SPINOX 14-11	3	400	2	8,1	8	950	1640	1510	97	37	27
4" SPINOX 14-15	4	400	2	10,4	10,4	1210	1900	1844	97	44,5	34,5
4" SPINOX 14-20	5,5	400	2	13,4	13,9	1535	2302	2279	97	52	44
4" SPINOX 14-28	7,5	400	2	18	18,7	2055	2880	2884	97	60,5	54,5

* Dimensions given in mm

6" SPINOX

Multi-stage deep well pumps with a diameter of 145 mm. Made entirely of stainless steel; they are designed for installation in wells with a minimum internal diameter of 160 mm. The pumps are used to supply water to: multi-family houses, farms, irrigation systems, sprinklers and lowering groundwater levels. The pumps are also used in waterworks and fire protection systems.

FEATURES:

- Pumps made entirely of stainless steel
- Increased wear resistance
- Integrated check valve
- Available with water-filled motors – WMC by iQ PR, oil-filled motors – IOM by iQ PR or IBO Italy
- Possibility to attach a cable of certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Power supply: 230/400 V
- Insulation grade: F

- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Power cord length: 1,5 m
- Motor speed: 2850

MATERIALS:

- Suction/discharge port: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR

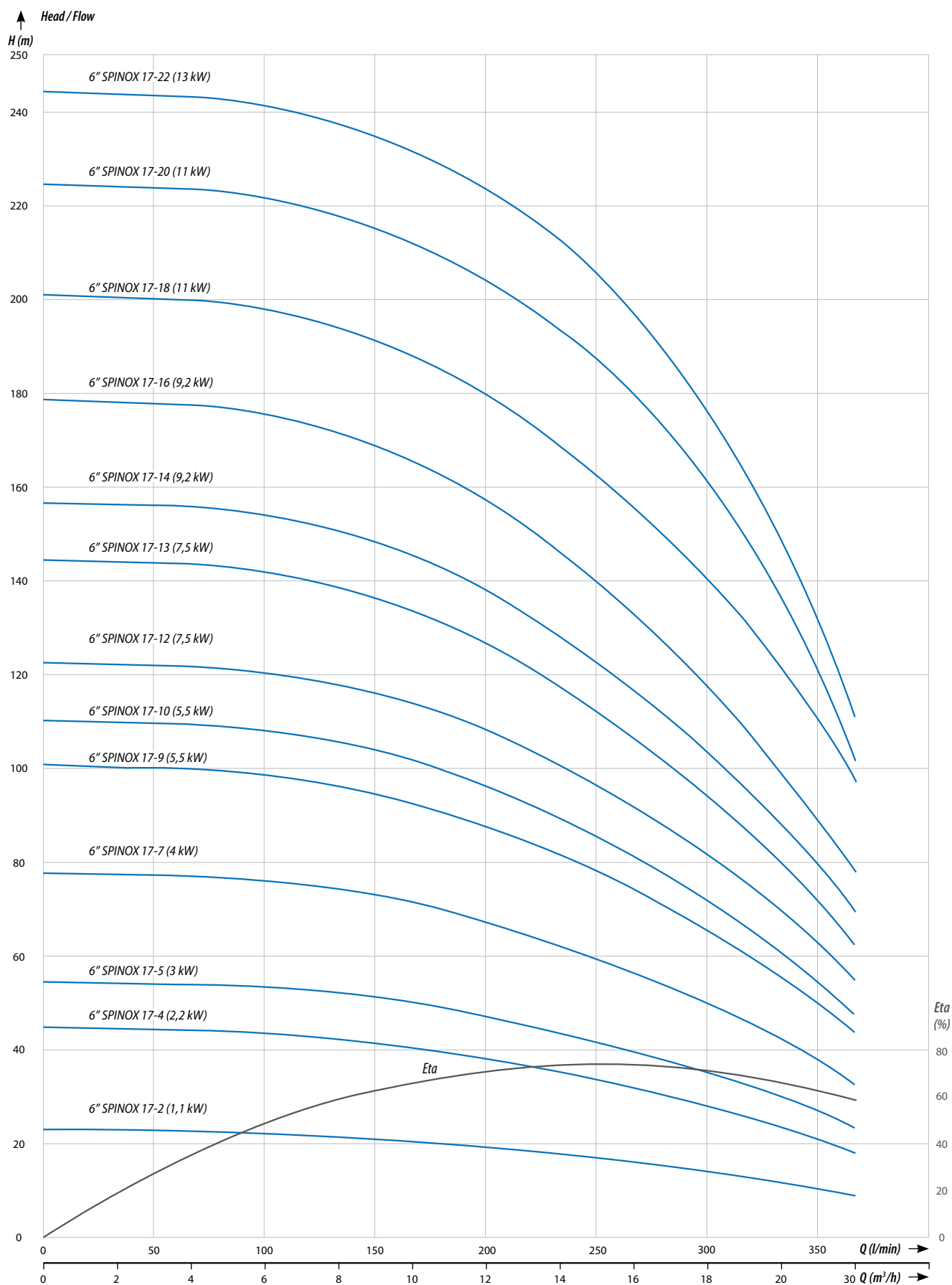


6" SPINOX 17			Flow (Q)								
Model	Flow (l/min)	Motor power (kW)	m³/h	0	4	8	12	16	18	20	22
			l/min	0	66,7	133,3	200	266,7	300	333,3	366,7
6" SPINOX 17-2	415	1,1	Head H (m)	23	22	21	19	16	14	12	9
6" SPINOX 17-4	415	2,2		45	44	43	39	33	29	24	19
6" SPINOX 17-5	415	3		56	56	54	49	41	37	31	25
6" SPINOX 17-7	415	4		78	78	75	68	58	52	44	35
6" SPINOX 17-9	415	5,5		101	100	97	89	76	67	58	46
6" SPINOX 17-10	415	5,5		112	111	107	98	83	74	63	50
6" SPINOX 17-12	415	7,5		135	134	130	119	101	90	77	62
6" SPINOX 17-13	415	7,5		145	144	140	128	109	97	83	66
6" SPINOX 17-14	415	9,2		157	156	152	139	119	106	91	74
6" SPINOX 17-16	415	9,2		179	178	172	158	134	119	102	82
6" SPINOX 17-18	415	11		202	200	194	178	152	136	116	94
6" SPINOX 17-20	415	11		223	221	214	196	167	148	126	101
6" SPINOX 17-22	415	13		246	245	237	218	186	166	142	114

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water-filled (kg)	Weight Oil-filled (kg)
6" SPINOX 17-2	1,1	4	230 / 400	2½	7,5 / 2,7	8,3 / 3,3	382	721	814	128	23	18,5
6" SPINOX 17-4	2,2		230 / 400		14,5 / 6,3	15,8 / 6	503	1041	975	128	34,5	28
6" SPINOX 17-5	3		400		8,1	8	563	1253	1123	128	43	28
6" SPINOX 17-7	4		400		10,4	10,4	684	1374	1318	128	45,5	35,5
6" SPINOX 17-9	5,5		400		13,4	13,9	805	1572	1549	128	52	44,5
6" SPINOX 17-10	5,5		400		13,4	13,9	866	1633	1610	128	54	46
6" SPINOX 17-12	7,5		400		18	18,7	987	1812	1816	128	57,5	52
6" SPINOX 17-13	7,5		400		18	18,7	1047	1872	1876	128	60,5	54,5
6" SPINOX 17-7	4	6	400		13,7	–	684	1419	–	145	60,5	–
6" SPINOX 17-9	5,5		400		13,7	–	821	1556	–	145	65	–
6" SPINOX 17-10	5,5		400		17,9	18,4	881	1661	1576	145	71	55,5
6" SPINOX 17-12	7,5		400		17,9	18,4	1002	1782	1697	145	72	57
6" SPINOX 17-13	7,5		400		17,9	18,4	1063	1843	1758	145	75	59,5
6" SPINOX 17-14	9,2		400		21,5	22,4	1123	1933	1861	145	79,5	66
6" SPINOX 17-16	9,2		400		21,5	22,4	1244	2054	1982	145	82	68,5
6" SPINOX 17-18	11		400		25,6	26,1	1365	2205	2133	145	87	74
6" SPINOX 17-20	11		400		25,6	26,1	1486	2326	2254	145	89,5	76,5
6" SPINOX 17-22	13		400		30,9	30,9	1607	2497	2405	145	98,5	82

* Dimensions given in mm

6" SPINOX cont.



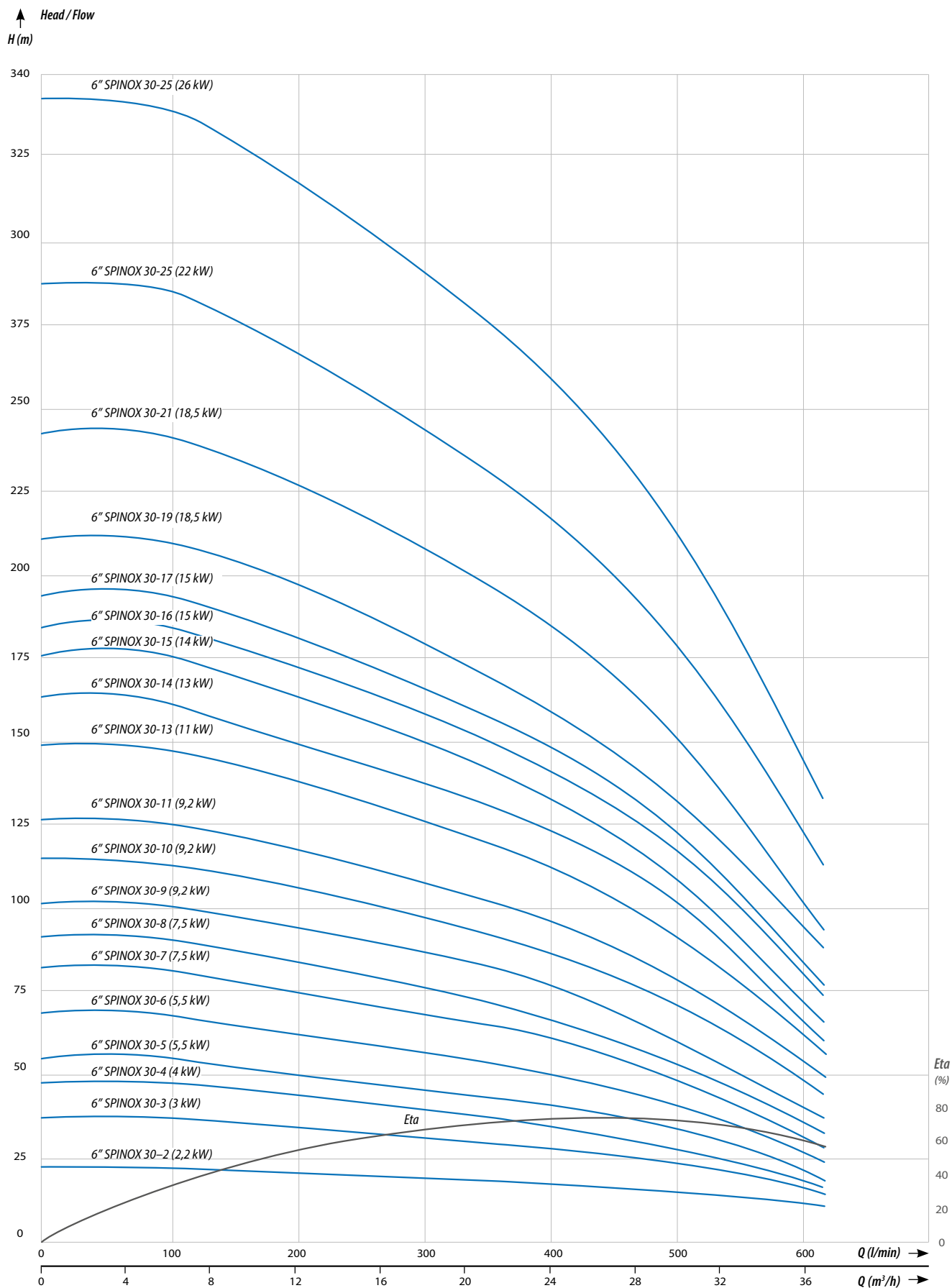
6" SPINOX cont.

6" SPINOX 30			Flow (Q)										
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	4	8	12	16	20	24	28	32	39
			l/min	0	66,7	133,3	200	266,7	333,3	400	466,7	533,3	650
6" SPINOX 30-2	695	2,2	Head H (m)	23	23	23	21	20	19	17	16	13	8
6" SPINOX 30-3	695	3		35	35	33	32	30	28	26	24	20	12
6" SPINOX 30-4	695	4		46	46	45	43	40	38	35	32	27	16
6" SPINOX 30-5	695	5,5		58	58	56	54	51	48	45	41	35	22
6" SPINOX 30-6	695	5,5		69	69	67	64	60	57	53	48	41	25
6" SPINOX 30-7	695	7,5		80	81	79	75	71	67	63	57	49	31
6" SPINOX 30-8	695	7,5		91	92	89	85	80	76	71	64	55	34
6" SPINOX 30-9	695	9,2		103	104	101	96	91	86	80	73	63	39
6" SPINOX 30-10	695	9,2		114	115	111	106	100	95	88	80	69	43
6" SPINOX 30-11	695	9,2		125	125	122	116	110	103	96	87	75	46
6" SPINOX 30-13	695	11		148	148	144	137	130	122	114	103	89	55
6" SPINOX 30-14	695	13		160	161	156	149	141	133	125	113	98	61
6" SPINOX 30-15	695	13		171	171	167	159	150	142	132	120	104	64
6" SPINOX 30-16	695	15		183	184	179	171	162	153	143	130	112	70
6" SPINOX 30-17	695	15		194	195	189	180	171	161	151	137	118	74
6" SPINOX 30-19	695	18,5		218	219	213	203	193	182	171	156	135	85
6" SPINOX 30-21	695	18,5		240	241	234	223	212	200	187	170	147	92
6" SPINOX 30-25	695	22		285	286	278	265	251	237	221	201	174	108
6" SPINOX 30-30	695	26		342	343	333	318	301	284	266	242	209	130

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
6" SPINOX 30-2	2,2	4	230 / 400	3	14,5 / 6,3	15,8 / 6	458	997	1043 / 968	128	34	27 / 23,5
6" SPINOX 30-3	3		400		8,1	8	554	1133	1114	128	37,5	27,5
6" SPINOX 30-4	4		400		10,4	10,4	650	1342	1284	128	44,5	34,5
6" SPINOX 30-5	5,5		400		13,4	13,9	746	1515	1490	128	50,5	42,5
6" SPINOX 30-6	5,5		400		13,4	13,9	842	1611	1586	128	52,5	44,5
6" SPINOX 30-7	7,5		400		18	18,7	938	1766	1767	128	57,5	51,5
6" SPINOX 30-8	7,5		400		18	18,7	1034	1862	1863	128	59	53,5
6" SPINOX 30-5	5,5	6	400		13,7	–	761	1496	–	145	62,5	–
6" SPINOX 30-6	5,5		400		13,7	–	857	1592	–	145	64,5	–
6" SPINOX 30-7	7,5		400		17,9	18,4	953	1733	1648	145	71,5	56,5
6" SPINOX 30-8	7,5		400		17,9	18,4	1049	1829	1744	145	73,5	58
6" SPINOX 30-9	9,2		400		21,5	22,4	1145	1955	1883	145	78,5	65
6" SPINOX 30-10	9,2		400		21,5	22,4	1241	2051	1979	145	80,5	67
6" SPINOX 30-11	9,2		400		21,5	22,4	1337	2147	2075	145	82,5	69
6" SPINOX 30-13	11		400		25,6	26,1	1529	2369	2297	145	88,5	75,5
6" SPINOX 30-14	13		400		30,9	30,9	1625	2515	2423	145	96,5	80
6" SPINOX 30-15	13		400		30,9	30,9	1721	2611	2519	145	98,5	82
6" SPINOX 30-16	15		400		34,9	34,8	1817	2747	2665	145	104,5	89
6" SPINOX 30-17	15		400		34,9	34,8	1913	2843	2761	145	106,5	91
6" SPINOX 30-19	18,5	6	400		43,5	–	2105	3120	–	145	119	–
6" SPINOX 30-21	18,5		400		43,5	–	2297	3312	–	145	123	–
6" SPINOX 30-25	22		400		50,3	–	2681	3741	–	145	137,5	–
6" SPINOX 30-30	26		400		59,2	–	3161	4326	–	145	158	–

* Dimensions given in mm

6" SPINOX cont.



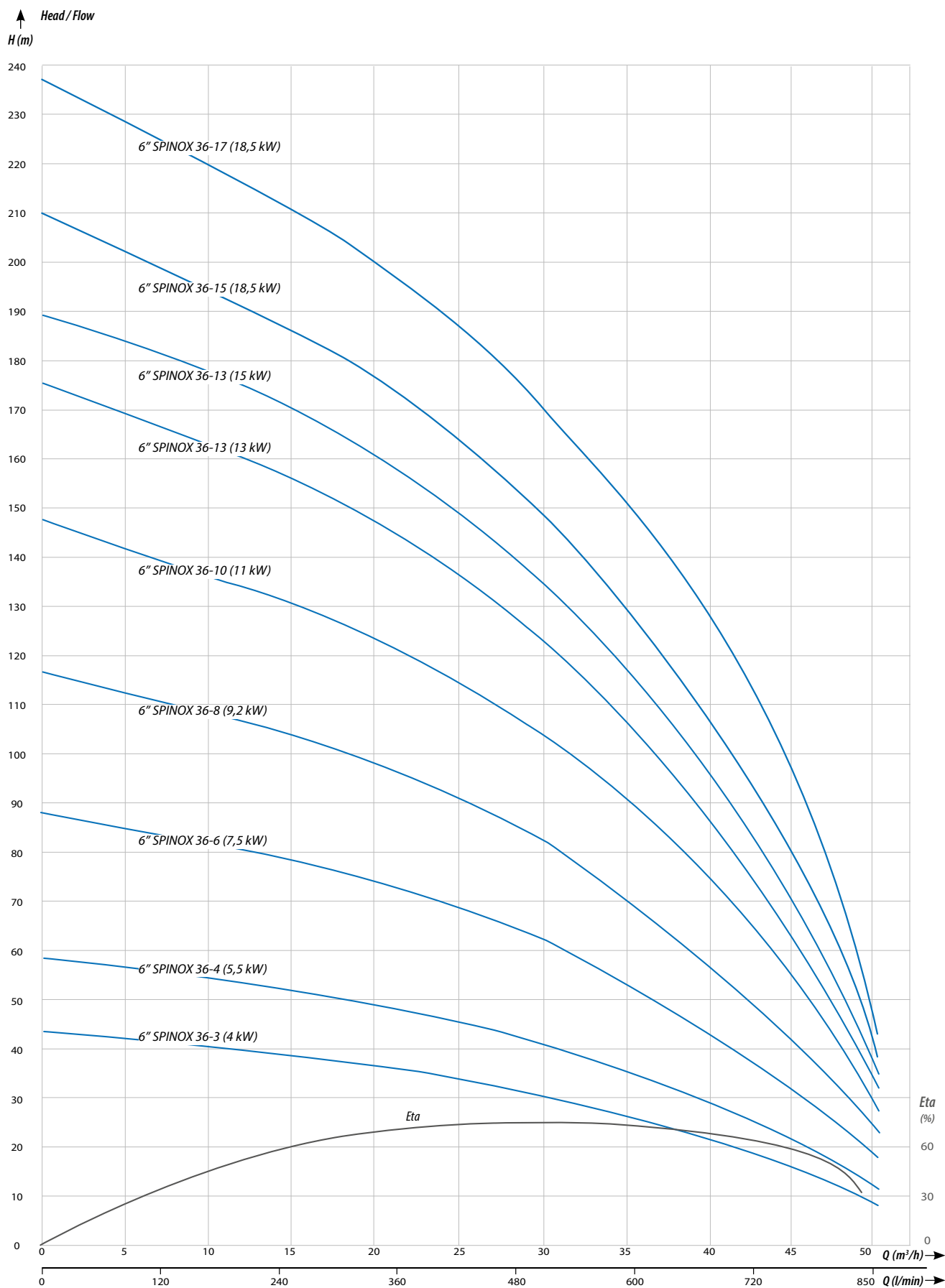
6" SPINOX cont.

6" SPINOX 36			Flow (Q)								
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	18	30	33	36	39	42	51
			l/min	0	300	500	550	600	650	700	850
6"SPINOX 36-3	850	4	Head H (m)	42	36	30	28	26	24	20	8
6"SPINOX 36-4	850	5,5		56	48	40	37	34	32	26	10
6"SPINOX 36-6	850	7,5		84	72	60	56	51	48	39	16
6"SPINOX 36-8	850	9,2		112	95	79	75	68	64	52	21
6"SPINOX 36-10	850	11		140	119	99	93	85	80	66	26
6"SPINOX 36-12	850	13		168	143	119	112	103	95	79	31
6"SPINOX 36-13	850	15		182	155	129	121	111	103	85	34
6"SPINOX 36-15	850	18,5		210	179	149	140	128	119	98	39
6"SPINOX 36-17	850	18,5		238	203	169	159	145	135	111	44

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics* length	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
6"SPINOX 36-3	4	4	400	3	10,4	10,4	550	1242	1184	143	43	33
6"SPINOX 36-4	5,5		400		13,4	13,9	635	1404	1379	143	49	42
6"SPINOX 36-6	7,5		400		18	18,7	805	1633	1634	143	56	50
6"SPINOX 36-4	5,5	6	400		13,7	13,7	635	1370	1291	145	61	47
6"SPINOX 36-6	7,5		400		19,9	18,4	805	1585	1501	145	70	55
6"SPINOX 36-8	9,2		400		21,5	22,4	975	1785	1714	145	78	64
6"SPINOX 36-10	11		400		25,6	26,1	1148	1988	1917	145	84	71
6"SPINOX 36-12	13		400		30,9	30,9	1318	2208	2117	145	94	78
6"SPINOX 36-13	15		400		34,9	34,8	1403	2333	2252	145	100	85
6"SPINOX 36-15	18,5		400		43,5	38	1573	2588	2453	145	113	101
6"SPINOX 36-17	18,5		400		43,5	38	1743	2758	2623	145	117	105

* Dimensions given in mm

6" SPINOX cont.



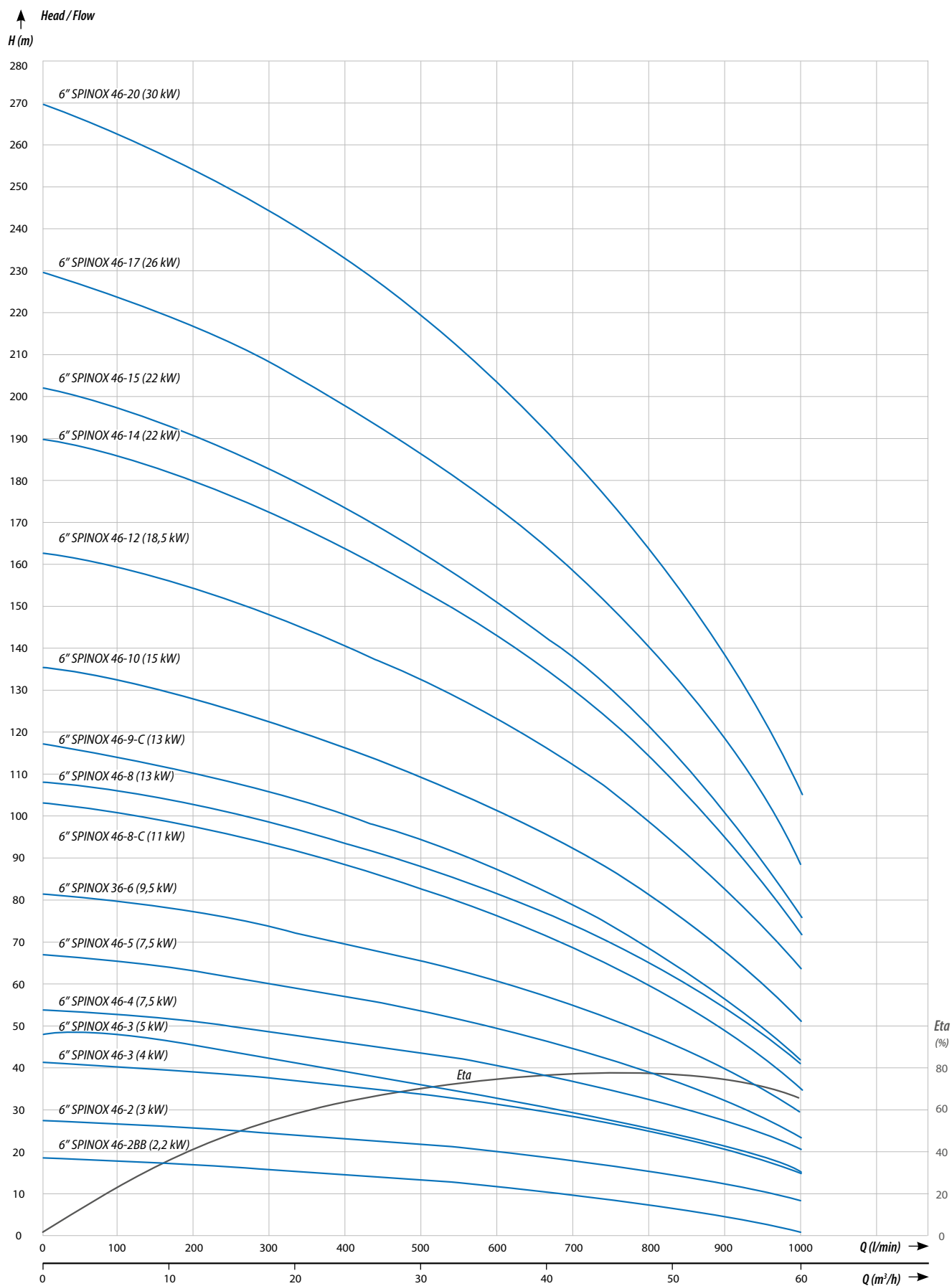
6" SPINOX cont.

6" SPINOX 46			Flow (Q)										
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	15	20	30	35	40	45	50	55	59,8
			l/min	0	250	333,3	500	583	666,7	750	833	916,7	996,7
6" SPINOX 46-2BB	1035	2,2	Head H (m)	19	17	17	15	14	12	10	8	5	1
6" SPINOX 46-2	1035	3		27	24	23	21	20	18	16	14	11	9
6" SPINOX 46-3-C	1035	4		36	33	31	28	26	24	21	18	14	10
6" SPINOX 46-3	1035	5,5		41	38	36	32	30	28	26	23	20	15
6" SPINOX 46-4-C	1035	5,5		49	45	43	39	37	34	30	26	21	15
6" SPINOX 46-4	1035	7,5		54	50	48	44	41	38	35	31	26	20
6" SPINOX 46-5	1035	7,5		67	62	60	54	51	47	43	37	31	24
6" SPINOX 46-6	1035	9,2		81	75	72	65	61	57	51	45	38	30
6" SPINOX 46-8-C	1035	11		103	95	91	82	77	71	64	56	46	36
6" SPINOX 46-8	1035	13		108	100	96	88	83	77	70	62	52	41
6" SPINOX 46-9-C	1035	13		117	108	104	94	88	82	74	65	54	42
6" SPINOX 46-10	1035	15		135	125	120	109	103	95	87	77	65	51
6" SPINOX 46-12	1035	18,5		162	150	145	132	124	115	105	93	79	63
6" SPINOX 46-14	1035	22		189	175	169	153	144	134	122	108	92	73
6" SPINOX 46-15	1035	22		202	187	180	163	154	143	130	115	97	77
6" SPINOX 46-17	1035	26		229	213	205	186	175	163	149	132	112	89
6" SPINOX 46-20	1035	30		270	251	241	219	206	192	175	155	132	105

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics* length	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
6" SPINOX 46-2BB	2,2	4	230 / 400	4	14,5/6,3	15,8/6	489	1028	1074/999	138	34	27,5/23,5
6" SPINOX 46-2	3		400		8,1	8	489	1068	1049	138	36	26
6" SPINOX 46-3-C	4		400		10,4	10,4	602	1294	1236	138	43	33
6" SPINOX 46-3	5,5		400		13,4	13,9	602	1371	1346	138	47	39,5
6" SPINOX 46-4-C	5,5		400		13,4	13,9	715	1484	1459	138	49,5	41,5
6" SPINOX 46-4	7,5		400		18	18,7	715	1543	1544	138	52,5	46,5
6" SPINOX 46-4-C	7,5	6	400	4	400	17,9	18,4	727	1507	1422	145	67,5
6" SPINOX 46-5	7,5		400		17,9	18,4	840	1620	1535	145	70	54,5
6" SPINOX 46-6	9,2		400		21,5	22,4	953	1763	1691	145	75,5	62
6" SPINOX 46-8-C	11		400		25,6	26,1	1179	2019	1947	145	82	69
6" SPINOX 46-8	13		400		30,9	30,9	1179	2069	1977	145	88	71,5
6" SPINOX 46-9-C	13		400		30,9	30,9	1292	2182	2090	145	90,5	74
6" SPINOX 46-10	15		400		34,9	34,8	1405	2335	2253	145	97	81
6" SPINOX 46-12	18,5		400		43,5	–	1631	2646	–	145	110	–
6" SPINOX 46-14	22		400		50,3	–	1857	2917	–	145	119,5	–
6" SPINOX 46-15	22		400		50,3	–	1970	3030	–	145	121,5	–
6" SPINOX 46-17	26		400		59,2	–	2196	3361	–	145	136,5	–
6" SPINOX 46-20	30		400		69,7	–	2535	3810	–	145	154,5	–

* Dimensions given in mm

6" SPINOX cont.



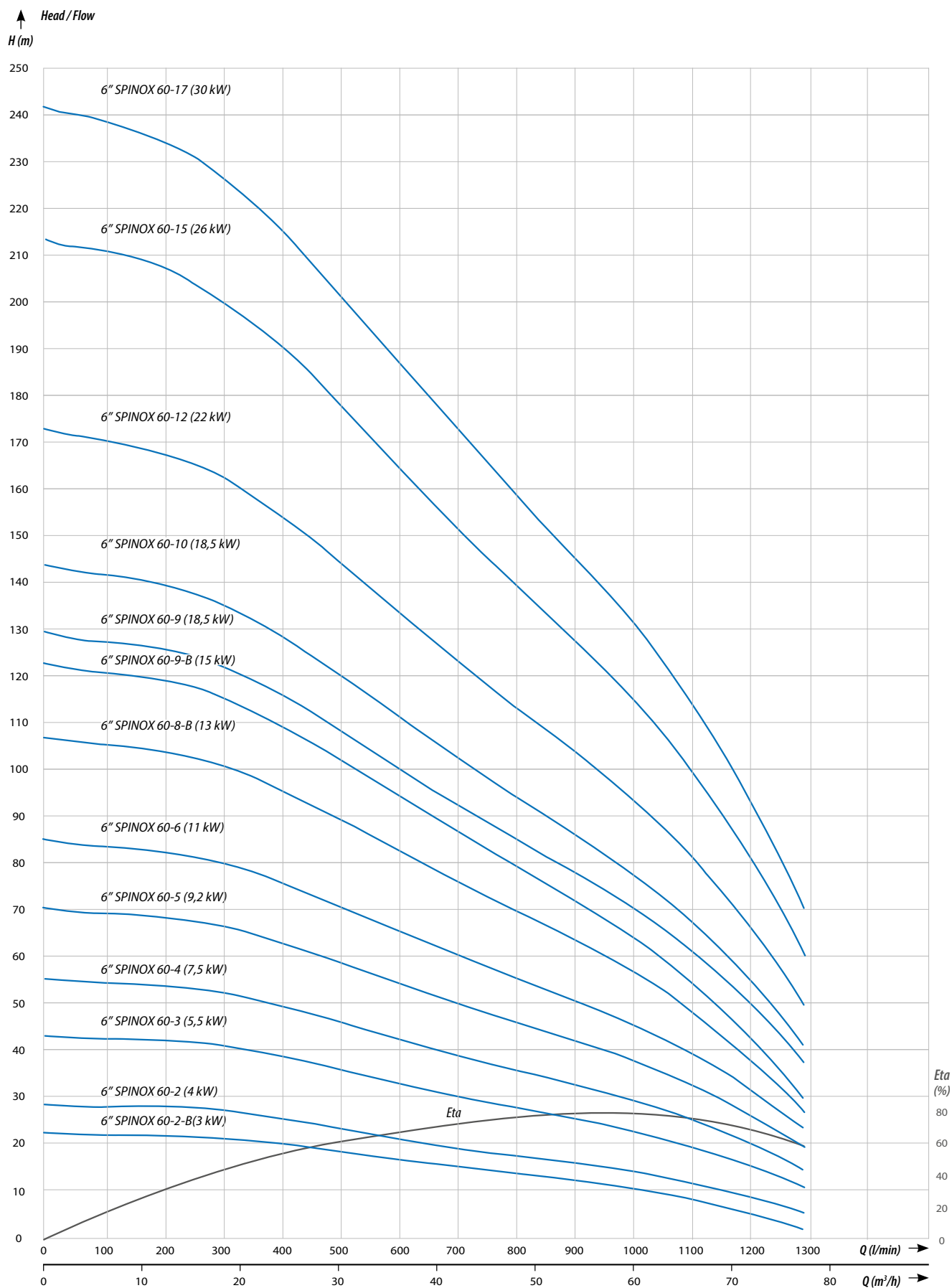
6" SPINOX cont.

6" SPINOX 60			Flow (Q)								
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	10	30	40	50	60	70	78
			l/min	0	166,7	500	666,7	833,3	1000	1166,7	1300
6" SPINOX 60-2-B	1365	3	Head H (m)	22	22	18	15	13	10	6	1
6" SPINOX 60-2	1365	4		28	27	23	19	17	14	10	5
6" SPINOX 60-3	1365	5,5		42	41	35	30	26	22	16	10
6" SPINOX 60-4	1365	7,5		56	55	47	41	35	30	22	14
6" SPINOX 60-5	1365	9,2		71	69	59	51	44	38	28	18
6" SPINOX 60-6	1365	11		85	83	71	62	54	45	34	22
6" SPINOX 60-8-B	1365	13		108	105	90	79	68	57	42	26
6" SPINOX 60-9-B	1365	15		122	119	102	90	78	65	48	30
6" SPINOX 60-9	1365	18,5		129	127	109	95	83	71	54	37
6" SPINOX 60-10	1365	18,5		143	140	120	105	92	78	60	41
6" SPINOX 60-12	1365	22		171	167	144	126	110	94	72	50
6" SPINOX 60-15	1365	26		214	209	179	157	136	116	89	60
6" SPINOX 60-17	1365	30		243	237	203	179	155	132	101	69

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water- filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
6" SPINOX 60-2-B	3	4	400	4	8,1	8	489	1068	1049	138	36	26
6" SPINOX 60-2	4		400		10,4	10,4	489	1181	1123	138	41	31
6" SPINOX 60-3	5,5		400		13,4	13,9	603	1372	1347	138	47	39,5
6" SPINOX 60-4	7,5		400		18	18,7	715	1543	1544	138	52,5	46,5
6" SPINOX 60-4	7,5	6	400		17,9	18,4	727	1507	1422	145	67,5	52,5
6" SPINOX 60-5	9,2		400		21,5	22,4	840	1650	1578	145	73	59,5
6" SPINOX 60-6	11		400		25,6	26,1	953	1793	1721	145	77,5	65
6" SPINOX 60-8-B	13		400		30,9	30,9	1179	2069	1977	145	88	71,5
6" SPINOX 60-9-B	15		400		34,9	34,8	1292	2222	2140	145	94,5	79
6" SPINOX 60-9	18,5		400		43,5	–	1292	2307	–	145	103,5	–
6" SPINOX 60-10	18,5		400		43,5	–	1405	2420	–	145	105,5	–
6" SPINOX 60-12	22		400		50,3	–	1631	2691	–	145	115	–
6" SPINOX 60-15	26		400		59,2	–	1970	3135	–	145	132	–
6" SPINOX 60-17	30		400		69,7	–	2196	3471	–	145	148	–

* Dimensions given in mm

6" SPINOX cont.



8" SPINOX

Multi-stage deep well pumps with a diameter of 175 mm. Entirely made of stainless steel, designed for installation in wells with a minimum internal diameter of 220 mm.

Pumps are used to supply water to single- and multi-family houses, farms, irrigation systems, sprinkler systems, to lower groundwater levels.

The pumps are also used in waterworks and fire protection systems.

FEATURES:

- Pumps made entirely of stainless steel
- Increased wear resistance
- Integrated check valve
- Available with water-filled motors – WMC, oil-filled motors – IOM by iQ PR and Italian oil-filled motors – IBO Italy
- Possibility to attach a cable of a certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Power supply: 400 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Power cord length: 1,5 m
- Motor speed: 2850 RPM

MATERIALS:

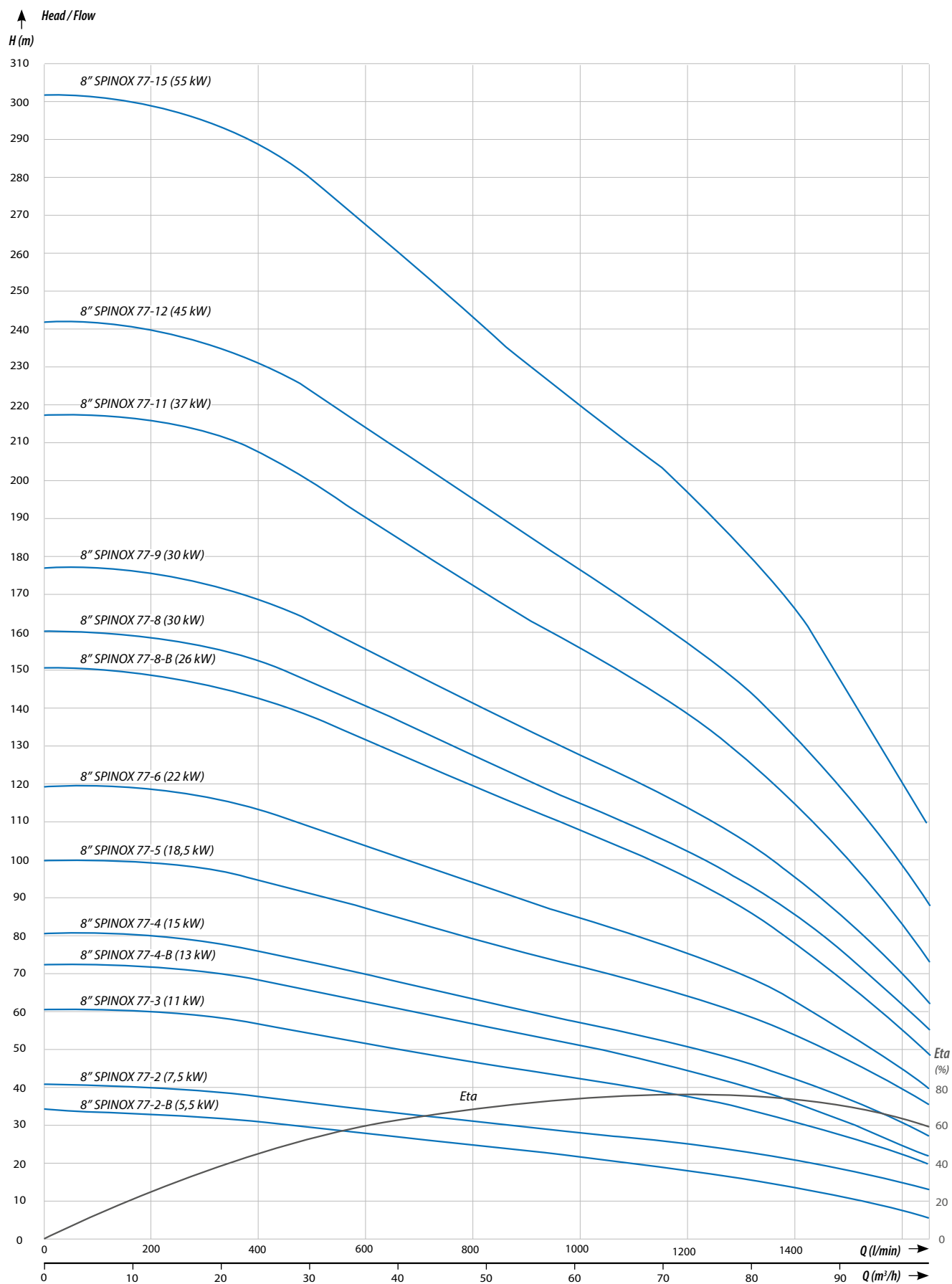
- Suction/discharge body: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: AISI 304 stainless steel
- Mechanical seal: ceramic / SiC / NBR



8” SPINOX 77			Flow (Q)											
Model	Flow (l/min)	Motor power (kW)	m³/h	0	10	20	30	40	50	60	70	80	90	100
			l/min	0	166,7	333,3	500	666	833,3	1000	1166,7	1333	1500	1666,7
8” SPINOX 77-2-B	1667	5,5	Head H (m)	33	32	31	29	27	25	22	20	16	12	7
8” SPINOX 77-2	1667	7,5		41	40	39	36	33	31	28	26	23	18	13
8” SPINOX 77-3	1667	11		61	60	58	55	50	46	42	39	34	28	20
8” SPINOX 77-4-B	1667	13		73	72	70	66	61	56	51	46	40	31	21
8” SPINOX 77-4	1667	15		81	80	78	73	68	62	57	52	46	38	27
8” SPINOX 77-5	1667	18,5		100	100	97	92	85	78	72	66	58	47	34
8” SPINOX 77-6	1667	22		120	120	116	110	102	94	86	78	69	56	41
8” SPINOX 77-8-B	1667	26		152	151	147	139	129	118	108	98	85	68	48
8” SPINOX 77-8	1667	30		160	160	156	147	137	126	116	105	93	76	55
8” SPINOX 77-9	1667	30		179	179	174	164	152	140	129	117	103	85	61
8” SPINOX 77-11	1667	37		218	218	212	201	186	172	158	144	127	104	74
8” SPINOX 77-12	1667	45		242	243	237	225	209	193	178	163	145	120	88
8” SPINOX 77-15	1667	55		303	303	296	281	262	242	223	204	181	150	110
Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water- filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)		
8” SPINOX 77-2-B	5,5	6	400	5	13,7	–	748	1483	–	168	70,5	–		
8” SPINOX 77-2	7,5		400		17,9	18,4	748	1528	1443	168	75,5	60,5		
8” SPINOX 77-3	11		400		25,6	26,1	876	1716	1644	168	85	72		
8” SPINOX 77-4-B	13		400		30,9	30,9	1004	1894	1802	168	94,5	78		
8” SPINOX 77-4	15		400		34,9	34,8	1004	1934	1852	168	99	83		
8” SPINOX 77-5	18,5		400		43,5	–	1132	2147	–	168	111	–		
8” SPINOX 77-6	22		400		50,3	–	1260	2320	–	168	119,5	–		
8” SPINOX 77-8-B	26		400		59,2	–	1516	2681	–	168	137,5	–		
8” SPINOX 77-8	30		400		69,7	–	1516	2791	–	168	149	–		
8” SPINOX 77-9	30		400		69,7	–	1644	2919	–	168	152,5	–		
8” SPINOX 77-11	37		400		73,3	–	1914	2940	–	194	206,5	–		
8” SPINOX 77-12	45		400		90,2	–	2042	3118	–	194	219	–		
8” SPINOX 77-15	55		8		400	108,2	–	2426	3582	–	194	245	–	

* Dimensions given in mm

8" SPINOX cont.



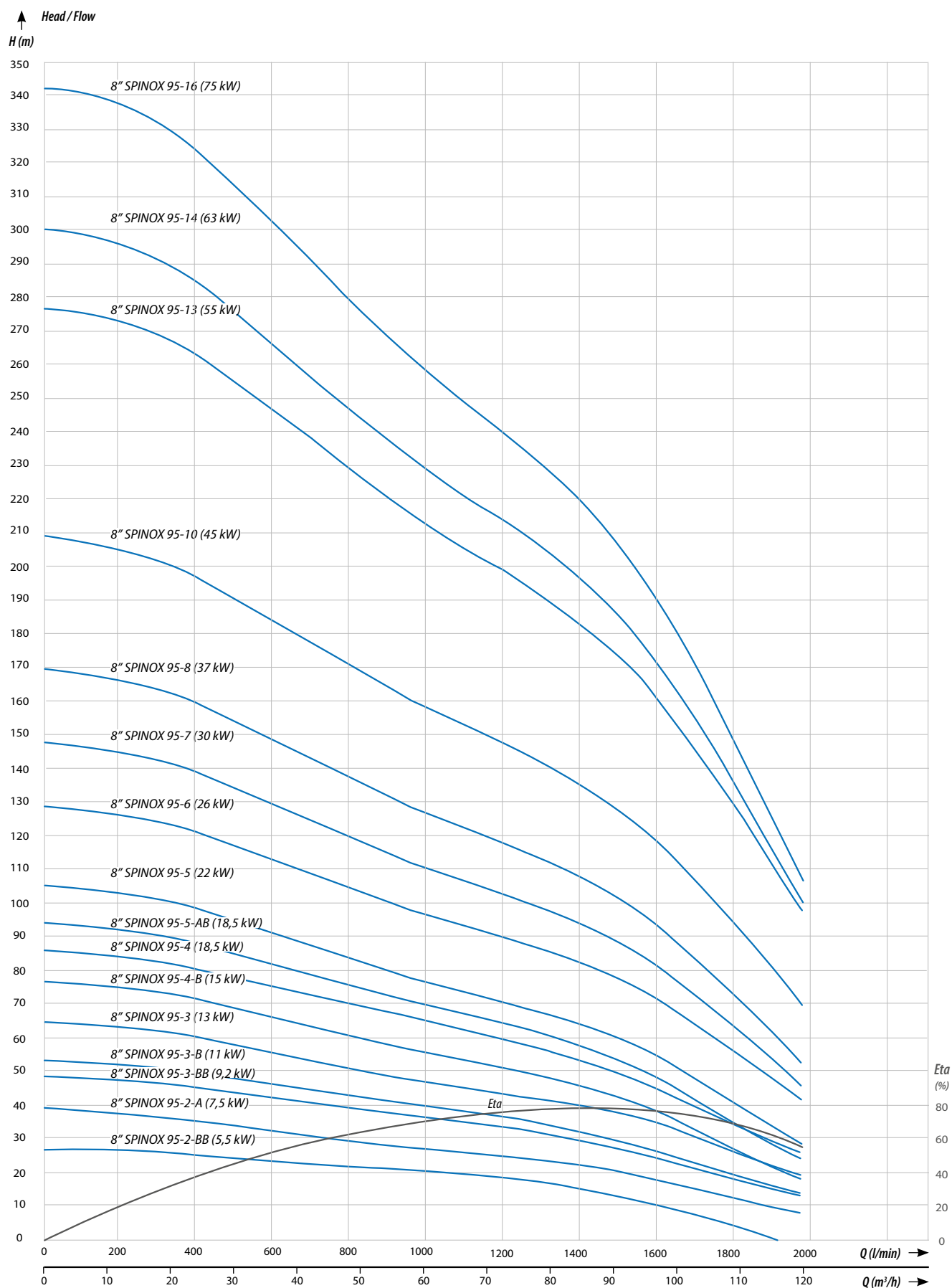
8" SPINOX cont.

8" SPINOX 95			Flow (Q)										
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	10	20	40	60	70	80	90	100	120
			l/min	0	167	333	667	1000	1167	1333	1500	1667	2000
8" SPINOX 95-2-BB	2130	5,5	Head H (m)	27	27	26	23	21	19	17	14	10	0
8" SPINOX 95-2-A	2130	7,5		39	38	36	32	27	26	24	21	18	9
8" SPINOX 95-2	2130	9,3		44	43	41	36	31	29	27	25	22	13
8" SPINOX 95-3-BB	2130	9,3		49	47	46	40	35	32	29	25	20	8
8" SPINOX 95-3-B	2130	11		56	55	53	47	41	38	35	31	26	13
8" SPINOX 95-3	2130	13		65	64	62	55	47	44	42	38	33	20
8" SPINOX 95-4-B	2130	15		77	76	73	65	56	53	49	44	37	20
8" SPINOX 95-4	2130	18,5		86	84	82	73	63	59	55	51	44	26
8" SPINOX 95-5-AB	2130	18,5		94	92	89	79	69	65	60	54	45	24
8" SPINOX 95-5	2130	22		106	105	101	90	78	73	69	63	55	32
8" SPINOX 95-6	2130	26		129	127	123	110	96	90	84	77	68	41
8" SPINOX 95-7	2130	30		148	146	142	126	110	103	96	88	77	46
8" SPINOX 95-8	2130	37		170	167	163	145	127	119	112	102	90	54
8" SPINOX 95-10	2130	45		214	212	206	185	162	152	143	132	116	71
8" SPINOX 95-13	2130	55		278	275	267	240	210	198	185	170	150	92
8" SPINOX 95-14	2130	63		300	297	289	259	227	214	201	185	163	100
8" SPINOX 95-16	2130	75		342	338	329	296	259	244	229	211	186	114

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
8" SPINOX 95-2-BB	5,5	6	400	5	13,7	–	748	1483	–	168	70,5	–
8" SPINOX 95-2-A	7,5		400		17,9	18,4	748	1528	1443	168	75,5	60,5
8" SPINOX 95-2	9,3		400		21,5	22,4	748	1558	1486	168	79	65,5
8" SPINOX 95-3-BB	9,3		400		21,5	22,4	876	1686	1614	168	82,5	69
8" SPINOX 95-3-B	11		400		25,6	26,1	876	1716	1644	168	85	72
8" SPINOX 95-3	13		400		30,9	30,9	876	1766	1674	168	91	74,5
8" SPINOX 95-4-B	15		400		34,9	34,8	1004	1934	1852	168	99	83
8" SPINOX 95-4	18,5		400		43,5	–	1004	2019	–	168	107,5	–
8" SPINOX 95-5-AB	18,5		400		43,5	–	1132	2147	–	168	111	–
8" SPINOX 95-5	22		400		50,3	–	1132	2192	–	168	116	–
8" SPINOX 95-6	26		400		59,2	–	1260	2425	–	168	130,5	–
8" SPINOX 95-7	30		400		69,7	–	1388	2663	–	168	145,5	–
8" SPINOX 95-8	37		400		73,3	–	1530	2556	–	194	196	–
8" SPINOX 95-10	45		400		90,2	–	1786	2862	–	194	212	–
8" SPINOX 95-13	55		400		108,2	–	2170	3326	–	194	238	–
8" SPINOX 95-14	63		400		125,7	–	2298	3494	–	194	250,5	–
8" SPINOX 95-16	75		400		147,6	–	2554	3890	–	194	284,5	–

* Dimensions given in mm

8" SPINOX cont.



10" SPINOX

Multi-stage deep well pumps with a diameter of 215 mm. Entirely made of stainless steel, designed for installation in wells with a minimum internal diameter of 280 mm. The pumps are used to supply water to multi-family houses, farms, irrigation systems, sprinkling machines, lowering groundwater levels. The pumps are also used in waterworks and fire protection systems.

FEATURES:

- Pumps made entirely of stainless steel
- Increased wear resistance
- Integrated check valve
- Available with water-filled motors – WMC by iQ PR and IBO ITALY
- Possibility to attach a cable of certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Power supply: 400 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Power cord length: 1,5 m
- Motor speed: 2850 RPM

MATERIALS:

- Suction/discharge body: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR

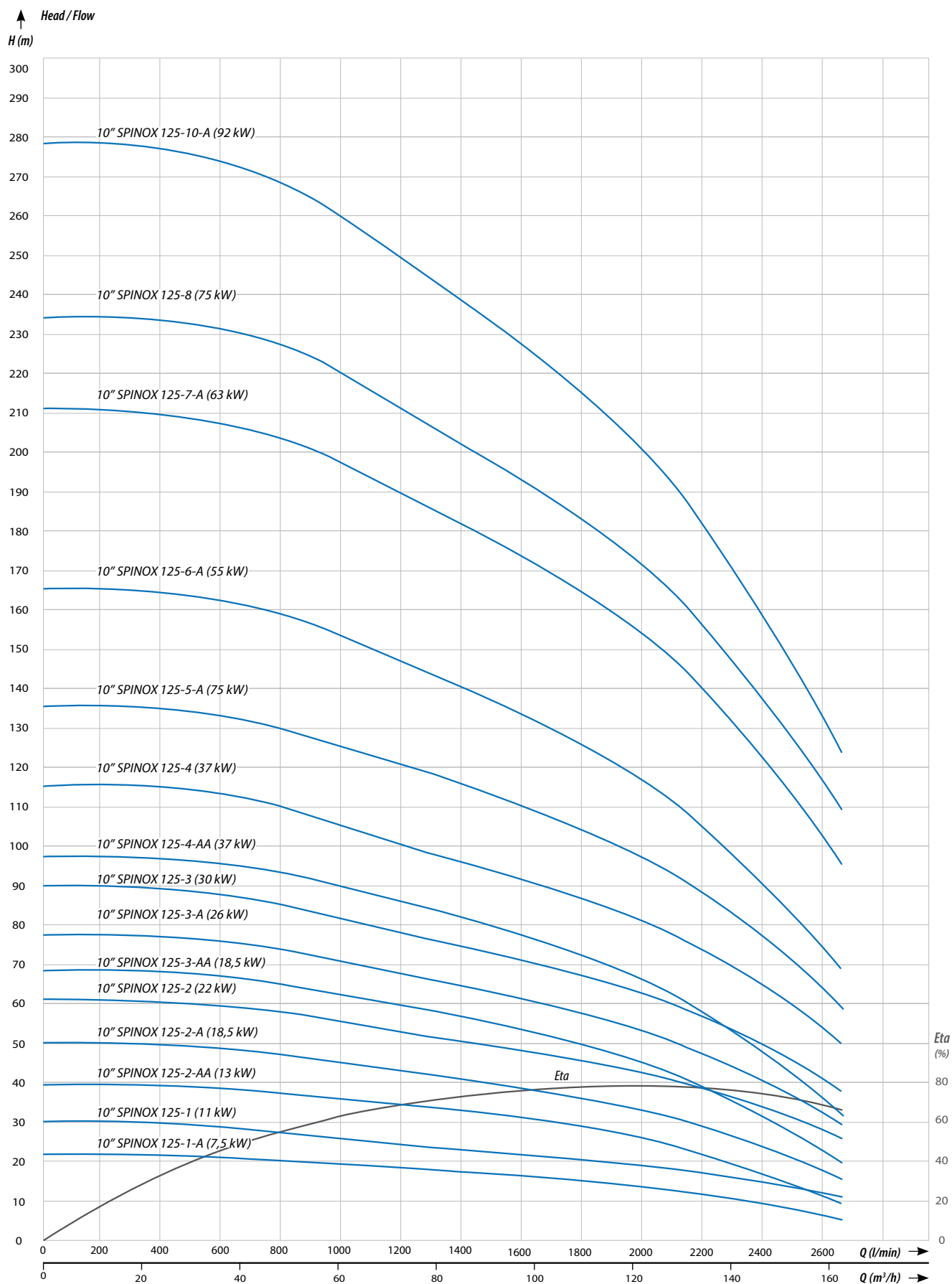


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10" SPINOX 125				Flow (Q)								
Model	Flow (l/min)	Motor power (kW)		m³/h	0	60	80	100	120	140	160	162
				l/min	0	1000	1333	1667	2000	2333	2667	2700
10" SPINOX 125-1-A	2700	7,5	Head H (m)	21	19	17	16	14	10	6	5	
10" SPINOX 125-1	2700	11		30	27	24	22	20	17	13	12	
10" SPINOX 125-2-AA	2700	13		40	37	35	31	27	20	11	10	
10" SPINOX 125-2-A	2700	18,5		50	45	42	39	34	28	19	18	
10" SPINOX 125-2	2700	22		59	54	50	46	42	35	27	26	
10" SPINOX 125-3-AA	2700	22		69	63	59	54	47	36	22	21	
10" SPINOX 125-3-A	2700	26		78	72	67	61	54	45	31	30	
10" SPINOX 125-3	2700	30		88	80	74	69	62	53	40	39	
10" SPINOX 125-4-AA	2700	37		98	91	85	78	69	56	38	36	
10" SPINOX 125-4	2700	37		116	106	99	91	83	71	54	52	
10" SPINOX 125-5-A	2700	45	136	127	119	110	100	84	63	60		
10" SPINOX 125-6-A	2700	55	165	155	144	134	121	103	77	74		
10" SPINOX 125-7-A	2700	63	194	182	170	158	143	122	92	88		
10" SPINOX 125-8	2700	75	232	216	202	188	171	147	113	109		
10" SPINOX 125-10-A	2700	93	278	260	242	224	203	172	129	124		
Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics* length	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
10" SPINOX 125-1-A	7,5	6	400	6	17,9	18,4	641	1421	1336	203	78	63
10" SPINOX 125-1	11		400		25,6	26,1	641	1481	1409	203	84	71
10" SPINOX 125-2-AA	13		400		30,9	30,9	797	1687	1595	203	96	79,5
10" SPINOX 125-2-A	18,5		400		43,5	–	797	1812	–	203	109	–
10" SPINOX 125-2	22		400		50,3	–	797	1857	–	203	114	–
10" SPINOX 125-3-AA	22		400		50,3	–	953	2013	–	203	120	–
10" SPINOX 125-3-A	26		400		59,2	–	953	2118	–	203	130,5	–
10" SPINOX 125-3	30		400		69,7	–	953	2228	–	203	142	–
10" SPINOX 125-4-AA	37		400		73,3	–	1109	2135	–	205	191	–
10" SPINOX 125-4	37		400		73,3	–	1109	2135	–	205	191	–
10" SPINOX 125-5-A	45	8	400	8	90,2	–	1265	2341	–	205	206	–
10" SPINOX 125-6-A	55		400		108,2	–	1421	2577	–	205	227	–
10" SPINOX 125-7-A	63		400		125,7	–	1577	2773	–	205	242	–
10" SPINOX 125-8	75		400		147,6	–	1733	3069	–	205	275	–
10" SPINOX 125-10-A	93		400		181,6	–	2045	3581	–	205	324	–

* Dimensions given in mm

10" SPINOX cont.



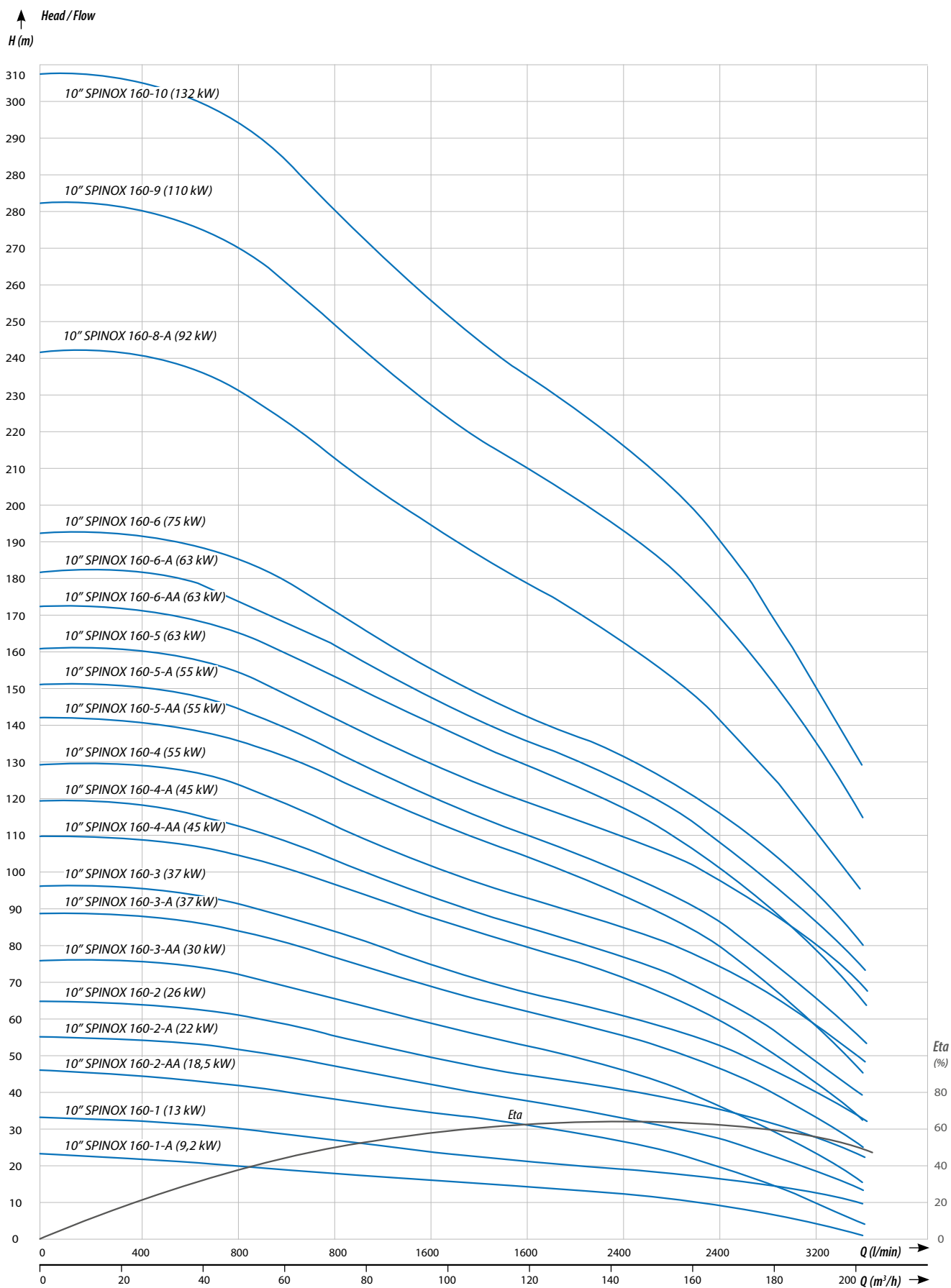
10" SPINOX cont.

10" SPINOX 160			Flow (Q)								
Model	Flow (l/min)	Motor power (kW)	m ³ /h	0	90	110	130	150	170	190	208
			l/min	0	1500	1833	2167	2500	2833	3167	3467
10" SPINOX 160-1-A	3420	9,2	Head H (m)	24	18	17	15	14	170	7	3
10" SPINOX 160-1	3420	13		34	26	24	22	21	2833	16	13
10" SPINOX 160-2-AA	3420	18,5		46	37	35	32	29	20	16	9
10" SPINOX 160-2-A	3420	22		55	45	41	38	35	28	24	17
10" SPINOX 160-2	3420	26		65	52	48	45	42	35	32	25
10" SPINOX 160-3-AA	3420	30		77	64	59	55	49	36	33	23
10" SPINOX 160-3-A	3420	37		87	72	66	62	57	45	41	31
10" SPINOX 160-3	3420	37		96	78	72	68	63	53	48	38
10" SPINOX 160-4-AA	3420	45		110	92	86	80	73	56	52	38
10" SPINOX 160-4-A	3420	45		119	99	92	86	80	71	59	45
10" SPINOX 160-4	3420	55		129	107	100	93	87	84	67	54
10" SPINOX 160-5-AA	3420	55		142	119	111	103	95	103	68	51
10" SPINOX 160-5-A	3420	55		151	126	117	109	101	122	75	58
10" SPINOX 160-5	3420	63		161	133	124	116	109	172	83	67
10" SPINOX 160-6-AA	3420	63		173	145	135	126	116	71	84	64
10" SPINOX 160-6-A	3420	75		183	153	142	133	123	84	92	72
10" SPINOX 160-6	3420	75		192	159	148	139	130	103	99	79
10" SPINOX 160-8-A	3420	92		243	202	188	176	163	122	121	94
10" SPINOX 160-9	3420	110		284	236	220	206	192	172	145	116
10" SPINOX 160-10	3420	132		316	262	244	229	213	172	161	129

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption Water-filled (A)	Current consumption Oil-filled (A)	Hydraulics length*	Length* with water- filled motor	Length* with oil- filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
10" SPINOX 160-1-A	9,2	6	400	6	21,5	22,4	641	1451	1379	203	81,5	68
10" SPINOX 160-1	13		400		30,9	30,9	641	1531	1439	203	90	73,5
10" SPINOX 160-2-AA	18,5		400		43,5	-	797	1812	-	203	109,5	-
10" SPINOX 160-2-A	22		400		50,3	-	797	1857	-	203	114,5	-
10" SPINOX 160-2	26		400		59,2	-	797	1962	-	203	125	-
10" SPINOX 160-3-AA	30		400		69,7	-	953	2228	-	203	142,5	-
10" SPINOX 160-3-A	37	8	400	6	73,3	-	953	1979	-	205	185,5	-
10" SPINOX 160-3	37		400		73,3	-	953	1979	-	205	185,5	-
10" SPINOX 160-4-AA	45		400		90,2	-	1109	2185	-	205	201	-
10" SPINOX 160-4-A	45		400		90,2	-	1109	2185	-	205	201	-
10" SPINOX 160-4	55		400		108,2	-	1109	2265	-	205	216	-
10" SPINOX 160-5-AA	55		400		108,2	-	1265	2421	-	205	222,5	-
10" SPINOX 160-5-A	55		400		108,2	-	1265	2421	-	205	222,5	-
10" SPINOX 160-5	63		400		125,7	-	1265	2461	-	205	231,5	-
10" SPINOX 160-6-AA	63	10	400		125,7	-	1421	2617	-	205	237,5	-
10" SPINOX 160-6-A	75		400		147,6	-	1421	2757	-	205	264,5	-
10" SPINOX 160-6	75		400		147,6	-	1421	2757	-	205	264,5	-
10" SPINOX 160-8-A	92		400		181,6	-	1733	3269	-	205	314	-
10" SPINOX 160-9	110		400		218	-	1889	3335	-	222	396	-
10" SPINOX 160-10	132		400		252,4	-	2045	3591	-	235	430,5	-

* Dimensions given in mm

10" SPINOX cont.



12" SPINOX



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Multi-stage deep well pumps with a diameter of 235 mm. Entirely made of stainless steel, designed for installation in wells with a minimum internal diameter of 315 mm. The pumps are used to supply water to multi-family houses, farms, irrigation systems, sprinkling machines, lowering groundwater levels. The pumps are also used in waterworks and fire protection systems.

FEATURES:

- Pumps made entirely of stainless steel
- Increased wear resistance
- Integrated check valve
- Available with water-filled motors – WMC by iQ PR
- Possibility to attach a cable of a certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Power supply: 400 V
- Insulation grade: F
- Ingress protection: IP68

- Operating mode: continuous
- Operating position: vertical
- Power cord length: 1,5 m
- Motor speed: 2850 RPM

MATERIALS:

- Suction/discharge body: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: AISI 304 stainless steel
- Diffuser: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR

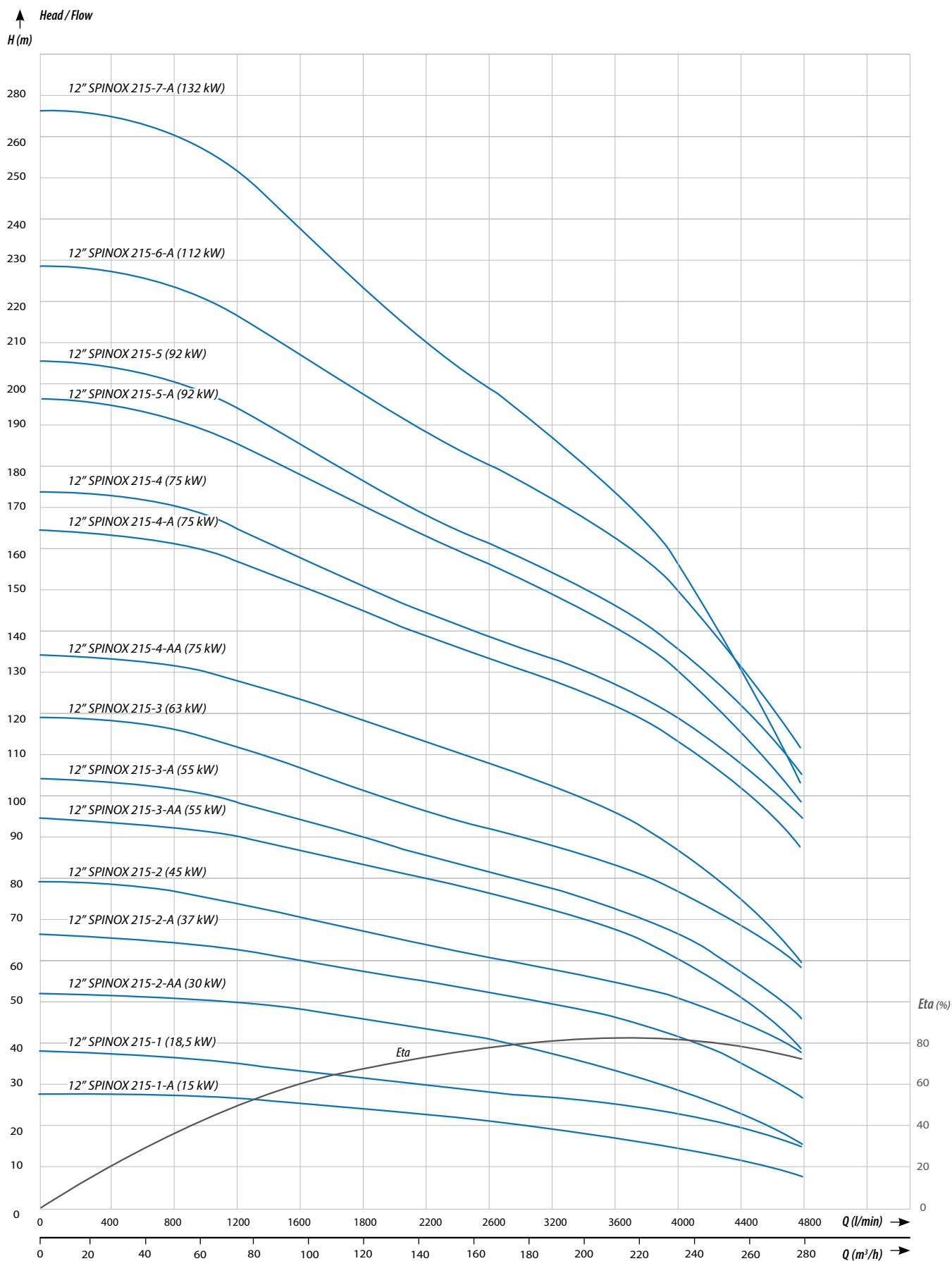


12" SPINOX 215			Flow (Q)									
Model	Flow (l/min)	Motor power (kW)	Head H (m)									
			m ³ /h	0	90	120	150	180	240	260	280	
12" SPINOX 215-1-A	4580	15	l/min	0	1500	1833	2500	3000	4000	4333	4667	
12" SPINOX 215-1	4580	18,5		27	24	23	20	17	10	6	3	
12" SPINOX 215-2-AA	4580	30		38	33	31	27	25	19	16	11	
12" SPINOX 215-2-A	4580	37		55	50	48	43	39	25	18	11	
12" SPINOX 215-2	4580	45		66	59	57	51	47	35	28	18	
12" SPINOX 215-3-AA	4580	55		79	70	66	59	55	44	37	19	
12" SPINOX 215-3-A	4580	55		95	87	84	76	71	53	42	28	
12" SPINOX 215-3	4580	63		107	96	92	83	77	59	49	37	
12" SPINOX 215-4-AA	4580	75		119	106	100	90	84	67	58	46	
12" SPINOX 215-4-A	4580	75		135	123	117	107	99	75	62	45	
12" SPINOX 215-4	4580	75		146	132	125	113	105	82	69	53	
12" SPINOX 215-5-A	4580	92		158	140	133	119	111	88	76	62	
12" SPINOX 215-5	4580	92		184	165	157	141	131	102	86	67	
12" SPINOX 215-6-A	4580	110		195	173	164	148	137	108	93	76	
12" SPINOX 215-7-A	4580	132		223	200	190	172	159	124	105	83	
				265	239	227	205	191	151	129	104	

Model	Motor power (kW)	Motor diameter (inches)	Voltage (V)	Discharge output (inches)	Current consumption – Water-filled (A)	Current consumption – Oil-filled (A)	Hydraulics length*	Length* with water-filled motor	Length* with oil-filled motor	Pump diameter*	Weight Water (kg)	Weight Oil-filled (kg)
12" SPINOX 215-1-A	15	6	400	6	34,9	34,8	718	1648	1566	227	105	89,5
12" SPINOX 215-1	18,5		400		43,5	–	718	1733	–	227	114	–
12" SPINOX 215-2-AA	30		400		69,7	–	894	2169	–	227	151	–
12" SPINOX 215-2-A	37		400		73,3	–	967	1993	–	233	203	–
12" SPINOX 215-2	45	8	400		90,2	–	967	2043	–	233	212	–
12" SPINOX 215-3-AA	55		400		108,2	–	1143	2299	–	233	237,5	–
12" SPINOX 215-3-A	55		400		108,2	–	1143	2299	–	233	237,5	–
12" SPINOX 215-3	63		400		125,7	–	1143	2339	–	233	246,5	–
12" SPINOX 215-4-AA	75		400		147,6	–	1319	2655	–	233	283,5	–
12" SPINOX 215-4-A	75	10	400		147,6	–	1319	2655	–	233	283,5	–
12" SPINOX 215-4	75		400		147,6	–	1319	2655	–	233	283,5	–
12" SPINOX 215-5-A	92		400		181,6	–	1495	3031	–	233	330,5	–
12" SPINOX 215-5	92		400		181,6	–	1495	3031	–	233	330,5	–
12" SPINOX 215-6-A	110	10	400		218	–	1671	3117	–	235	416	–
12" SPINOX 215-7-A	132		400		252,4	–	1847	3393	–	235	454	–

* Dimensions given in mm

12" SPINOX cont.



Deep well pumps PRO

5" SUB-R INOX

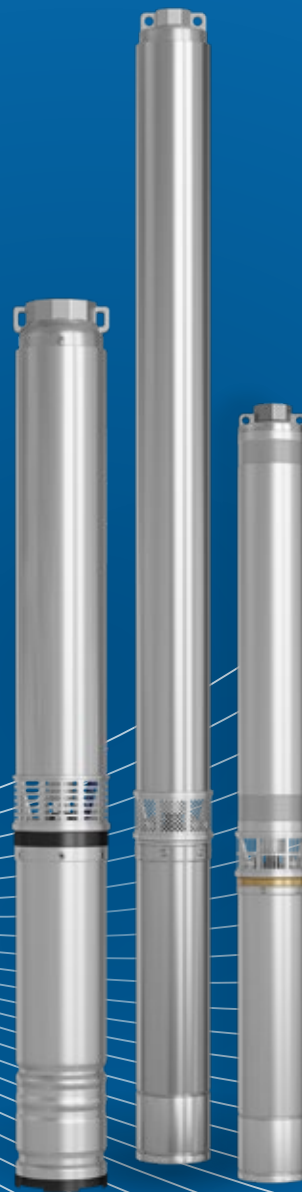
3" PRO

3,5" PRO

4" PRO

5" PRO

6" PRO



5" SUB-R INOX

pump with float

It is designed to irrigate crops and supply water to houses, plots of land and cottages from underground tank intakes, including ring wells. The integrated control float allows autonomous operation at times when water flows into the tank and cycles until each time the tank is emptied.

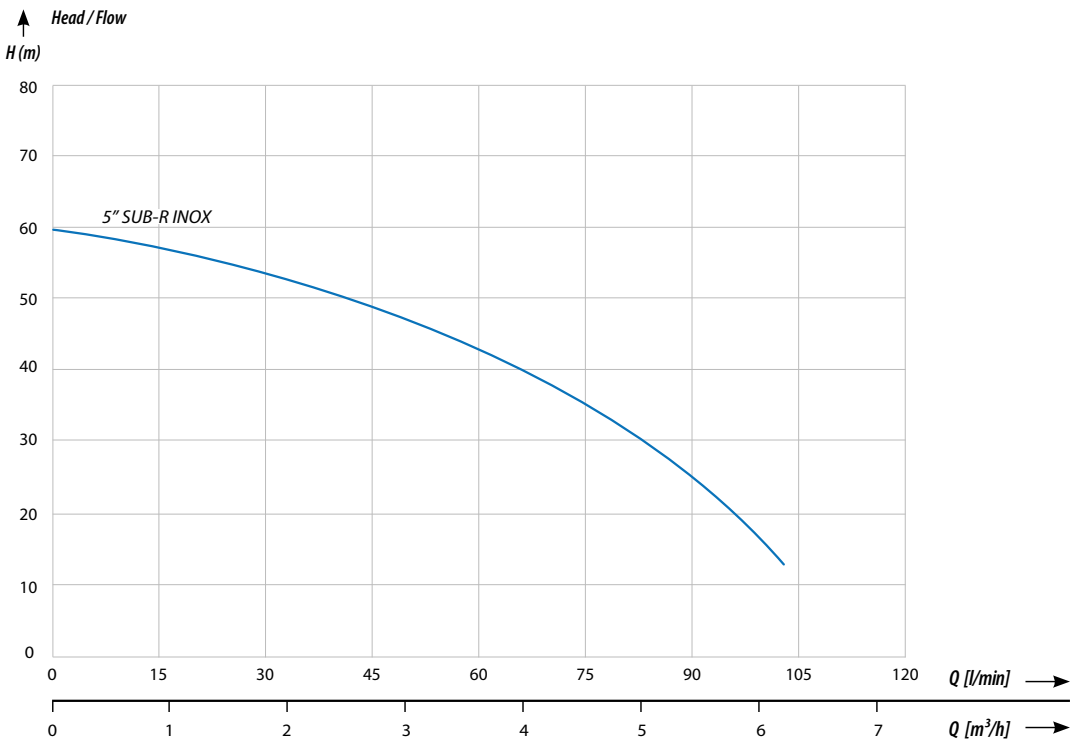
The 5" SUB-R INOX pump has a float that controls the operation of the pump depending on the water level relative to the pump body.

As the water level in the tank rises, the float rises until the ball contacts inside the float and the pump is switched on. During pumping, the water level drops in the tank, and the float drops with it.

When the float reaches a sufficiently low level, there will be a contact disconnection and the pump will be turned off. The pump should be placed vertically in the tank so that the float has enough space to rise and fall freely.

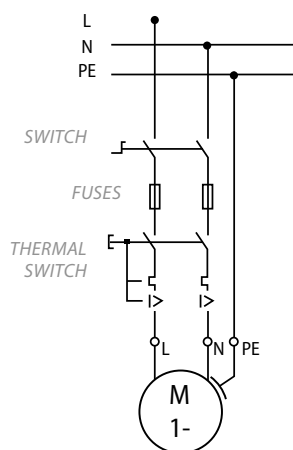
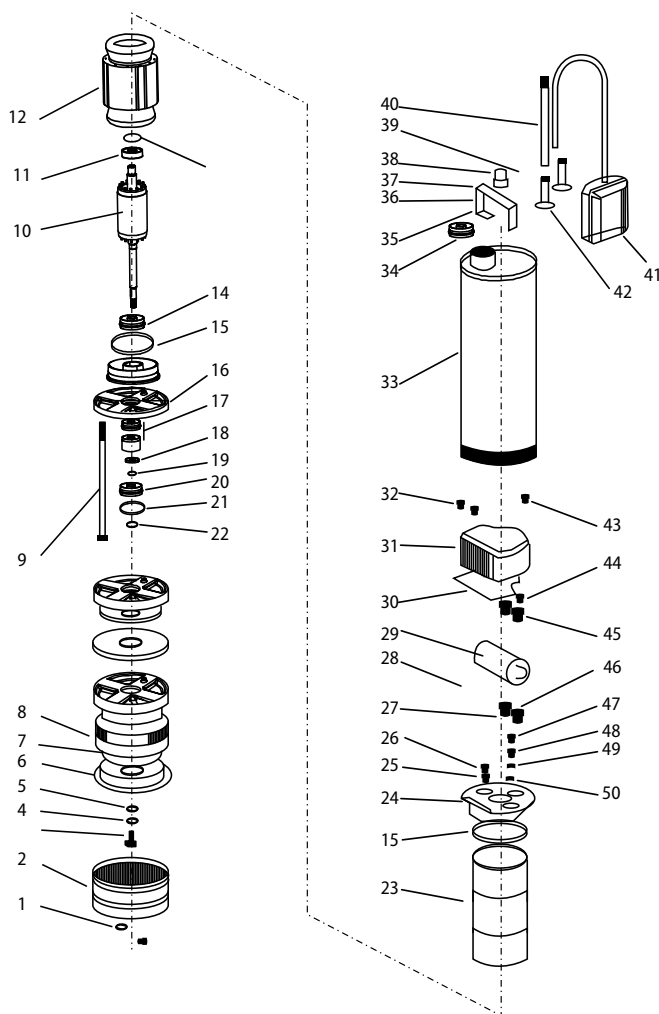
TECHNICAL SPECIFICATIONS:

- Insulation grade: F
- Ingress protection: IP68
- Power cord length: 15 m
- Max. immersion depth: 19 m
- Motor speed: 2850 RPM



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Port (inches)	Dimensions diameter/height (cm)	Weight (kg)
5" SUB-R INOX	60	105	800	230	6,3	1¼	13 / 53	14,5

5" SUB-R INOX cont.



Element	Current consumption (A)
Thermal switch	7
Switch	10
Fuse	8
Current	6,3

Ite	Part name	Quantity
1	Rubber stopper	2
2	Housing cover	1
3	Screw	1
4	Spring washer	1
5	Washer	1
6	Diffuser cover	3
7	Impeller	3
8	Diffuser	3
9	Screw	2
10	Motor impeller	1
11	Top bearing	1
12	Motor stator	1
13	Corrugated washer	1
14	Bottom bearing	1
15	O-ring	4
16	Lower motor cover	1
17	Mechanical seal	1
18	Oil seal washer	1
19	Washer	1
20	Lip seal	1
21	Washer	1
22	Adjustment washer	2
23	Motor cover	1
24	Lower motor cover	1
25	O-ring	1
26	Oil cap screw	2
27	Cable seal cover	1
28	Capacitor holder	1
29	Capacitor	1
30	O-ring	1
31	Capacitor housing	1
32	Screw	2
33	Impact cover	1
34	Dust cover	1
35	Cap nut	1
36	Handle	1
37	Screw	1
38	Cable holder	1
39	Nut	1
40	Electric cable	1
41	Float	1
42	Cable seal	2
43	Screw	2
44	Coil	2
45	Screw	2
46	Screw	2
47	Cable protection gasket	1
48	Cable washer	1
49	Screw	1
50	Cable clamp	1

3" PRO

enhanced sand resistance

Multistage deep well pumps with a diameter of 74 mm, with improved sand resistance, are designed for installation in wells with a minimum internal diameter of 85 mm.

The pumps are used to supply water to single- and multi-family houses, farms, as well as to power irrigation systems (sprinklers, drip lines) and in drainage.

FEATURES:

- Enhanced sand resistance
- Premium materials
- Long trouble-free operation based on Italian manufacturing technology
- 20 m power cable terminated with a plug
- Thermal protection integrated into the motor winding
- Capacitor integrated into the motor (no need for an external starting box)

TECHNICAL SPECIFICATIONS:

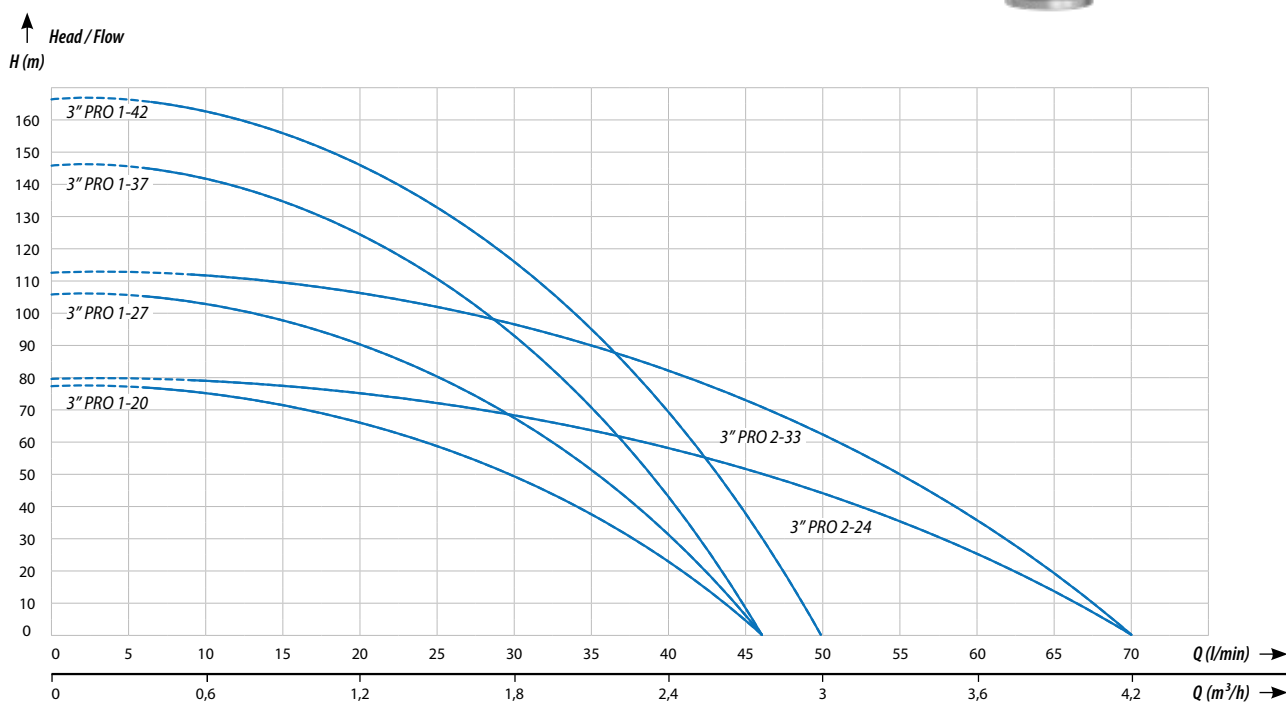
- Max. liquid temperature: 35°C
- Max. ambient temperature: 35°C
- Power supply: 230 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Max. immersion depth: 100 m
- Max. number of starts: 30/h
- Power cord length: 20 m
- Motor speed: 2850 RPM

MATERIALS:

- Suction/discharge port: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: PPO
- Diffuser: reinforced polycarbonate
- Mechanical seal: ceramic/SiC/NBR
- Bearings: NSK
- Motor: oil-filled



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Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Port (inches)	Dimensions diameter/height (mm)	Weight (kg)
3" PRO 1-20	79	46	550	230	4,2	1	74 / 1210	12,5
3" PRO 1-27	107	46	750	230	5,2	1	74 / 1470	14
3" PRO 1-37	146	46	1100	230	6,7	1	74 / 1810	18,5
3" PRO 1-42	168	50	1500	230	4,2	1	–	–
3" PRO 2-24	80	70	750	230	6,5	1	–	–
3" PRO 2-33	112	70	1100	230	8,2	1	–	–

3,5" PRO

enhanced sand resistance

Multistage deep well pumps with a diameter of 90 mm, with improved sand resistance, are designed for installation in wells with a minimum internal diameter of 100 mm. The pumps are used to supply water to single- and multi-family houses, farms, as well as to power irrigation systems (sprinklers, drip lines) and in drainage.

FEATURES:

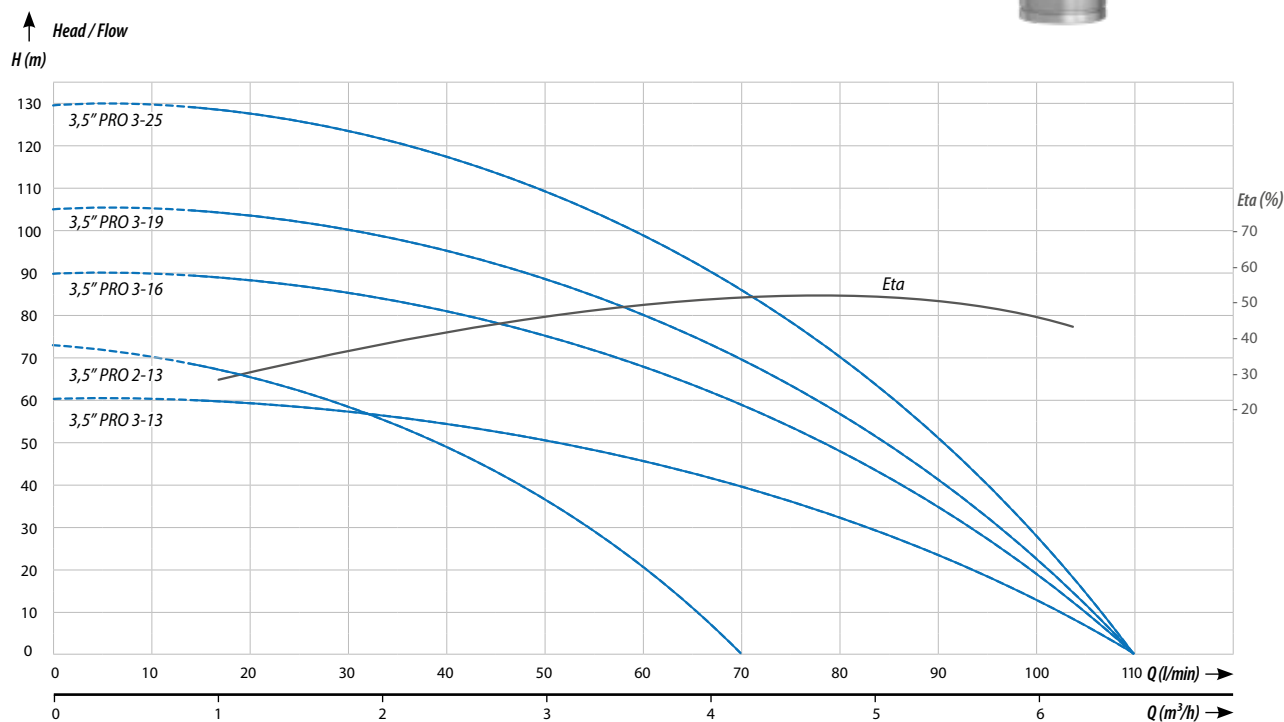
- Enhanced sand resistance
- Premium materials
- Long trouble-free operation based on Italian manufacturing technology
- 20 m power cable terminated with a plug
- Thermal protection integrated into the motor winding
- Capacitor integrated into the motor (no need for an external starting box)

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Max. ambient temperature: 35°C
- Power supply: 230 V
- Insulation grade: F
- Ingress protection: IP68
- Operating mode: continuous
- Working position: vertical / horizontal
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Power cord length: 20 m
- Motor speed: 2850 RPM

MATERIALS:

- Suction/discharge port: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 304 stainless steel
- Impeller: PPO
- Diffuser: reinforced polycarbonate
- Mechanical seal: ceramic/SiC/NBR
- Bearings: NSK
- Motor: oil-filled



Model	Head (m)	Flow (l/min)	Power (W)	Power supply (V)	Current consumption (A)	Port (inches)	Dimensions diameter/height (mm)	Weight (kg)
3,5" PRO 2-13	73	70	800	230	5,5	1½	95 / 962	11,5
3,5" PRO 3-13	60	110	800	230	5,3	1½	90 / 1020	12
3,5" PRO 3-16	90	110	1100	230	7,3	1½	90 / 1260	14
3,5" PRO 3-19	105	110	1500	230	9,6	1½	90 / 1410	16,5
3,5" PRO 3-25	130	110	1800	230	11,5	1½	90 / 1670	23,5

4" PRO

enhanced sand resistance

Multi-stage deep well pumps with a diameter of 99 mm, with improved sand resistance, designed for installation in wells with a minimum diameter of 4". Pumps in 4", 6" sizes were equipped with radial impellers.

On 4" models, the discharge outlets have 1¼" diameters.

The 4" PRO series pumps are available with PRO motors with a 3-year warranty in 400 V ~ 3/50 Hz and 230 V/50 Hz versions. The effect of increased sand resistance has been achieved through the use of "floating impellers" and the selection of wear-resistant materials: discharge and suction port, housing, shaft and filter mesh made of AISI 304 stainless steel and impellers made of high-quality reinforced plastic.

Pumps with 230 V ~/50 Hz motors are equipped with a starting box with an integrated capacitor and overcurrent protection.

Pumps with motors from 0,75 kW to 2,2 kW are available with a 1,5 m cable.

On request, it is possible to extend the cable by any length.

They have sand-resistant designs. The maximum sand content in the water is up to 5%.

APPLICATION:

- Supplying single-family houses and farms with water from deep wells
- Irrigation of gardens and orchards
- Site drainage
- Waterworks systems
- Firefighting systems
- Industry

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Max. ambient temperature: 35°C
- Insulation grade: F
- Ingress protection IP68
- Operating mode: continuous
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Max. voltage spikes: +/- 10%
- Shaft connection: NEMA standard
- Motor speed: 2850 RPM

MATERIALS:

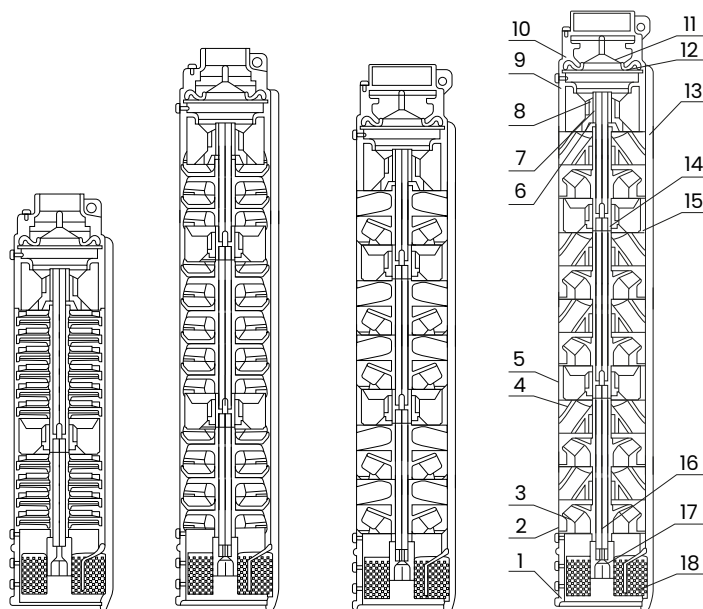
- Suction / discharge port: AISI 304 stainless steel
- Check valve: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 420 stainless steel
- Diffuser: polymer PPO
- Impeller: polymer PPO
- Slip sleeve: AISI 304
- Clutch: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR
- Motor: oil-filled
- Motor speed: 2850 RPM



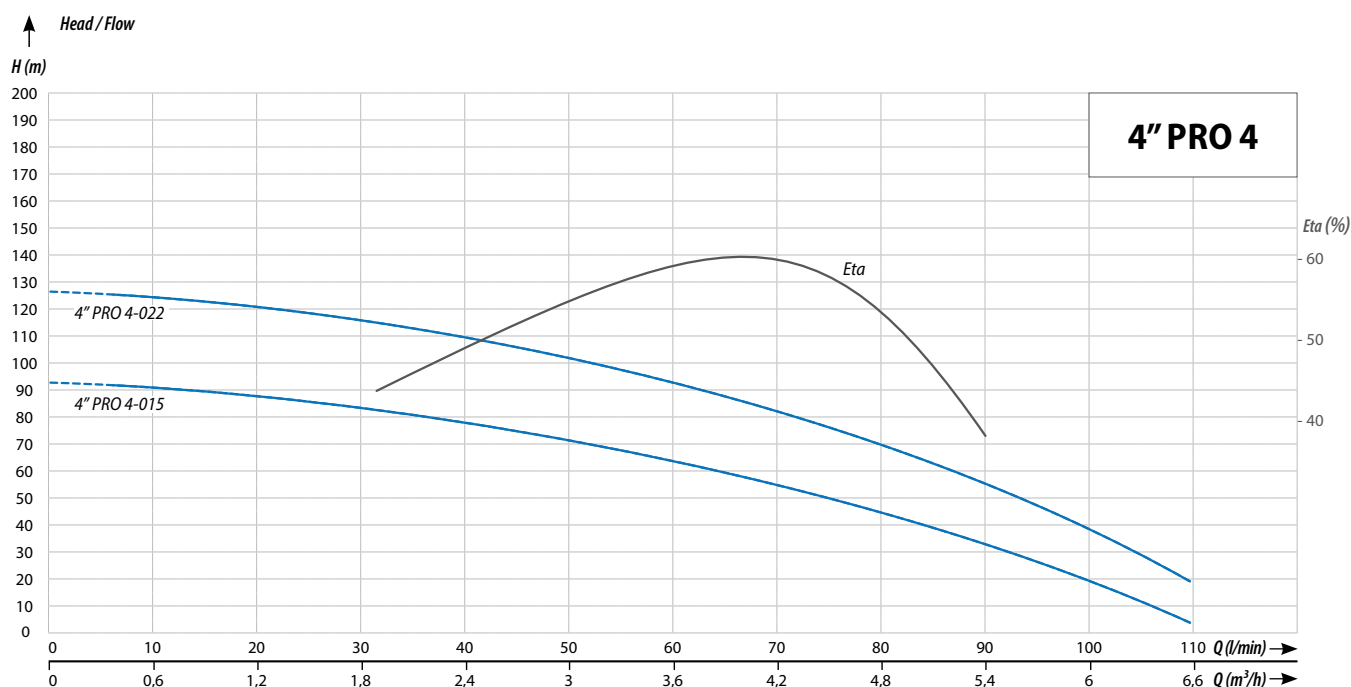
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4" PRO cont.

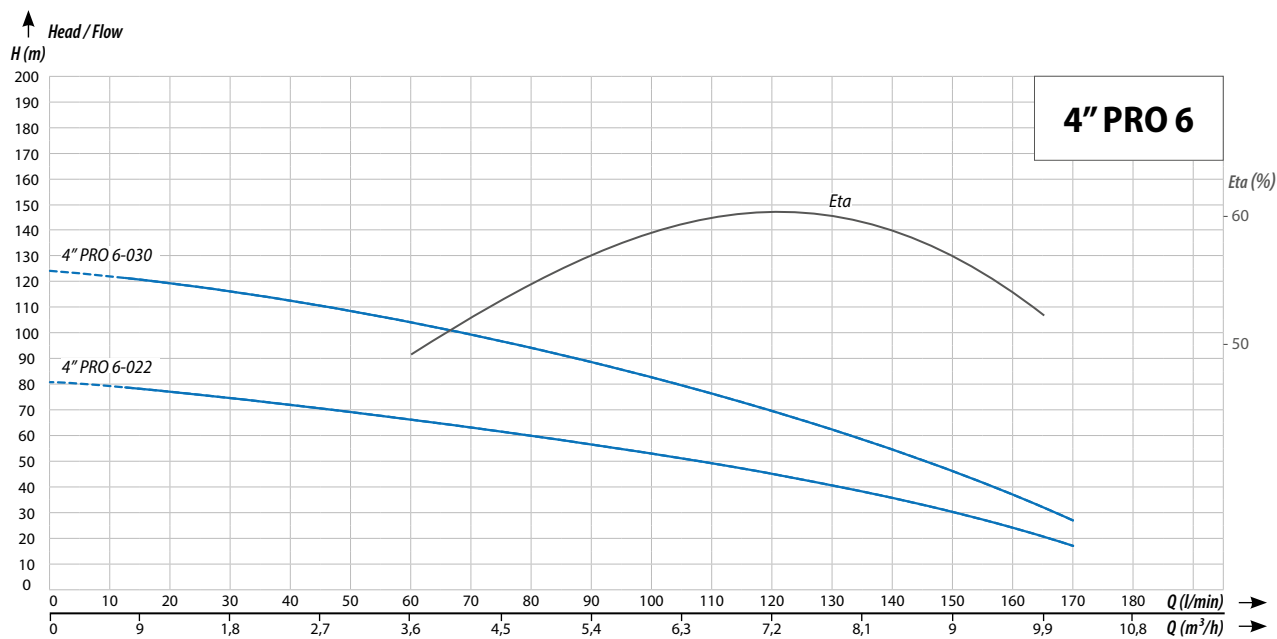


No.	Element	Material
1	Suction body	AISI 304 stainless steel
2	Diffuser housing	AISI 304 stainless steel
3	Impeller	reinforced polymer PPO
4	Diffuser	reinforced polymer PPO
5	Tube	AISI 304 stainless steel
6	Thrust bearing	AISI 304 stainless steel
7	Slip sleeve	AISI 304 stainless steel
8	Spacer	TPU
9	Upper bearing body	reinforced polymer PPO
10	Discharge body	AISI 304 stainless steel
11	Check valve	AISI 304 stainless steel
12	Valve saddle	AISI 304 stainless steel
13	Cable strip	AISI 304 stainless steel
14	Middle sliding sleeve	AISI 304 stainless steel
15	Middle bearing body	AISI 304 stainless steel
16	Shaft	AISI 304 stainless steel
17	Clutch	AISI 304 stainless steel
18	Filtration net	AISI 304 stainless steel

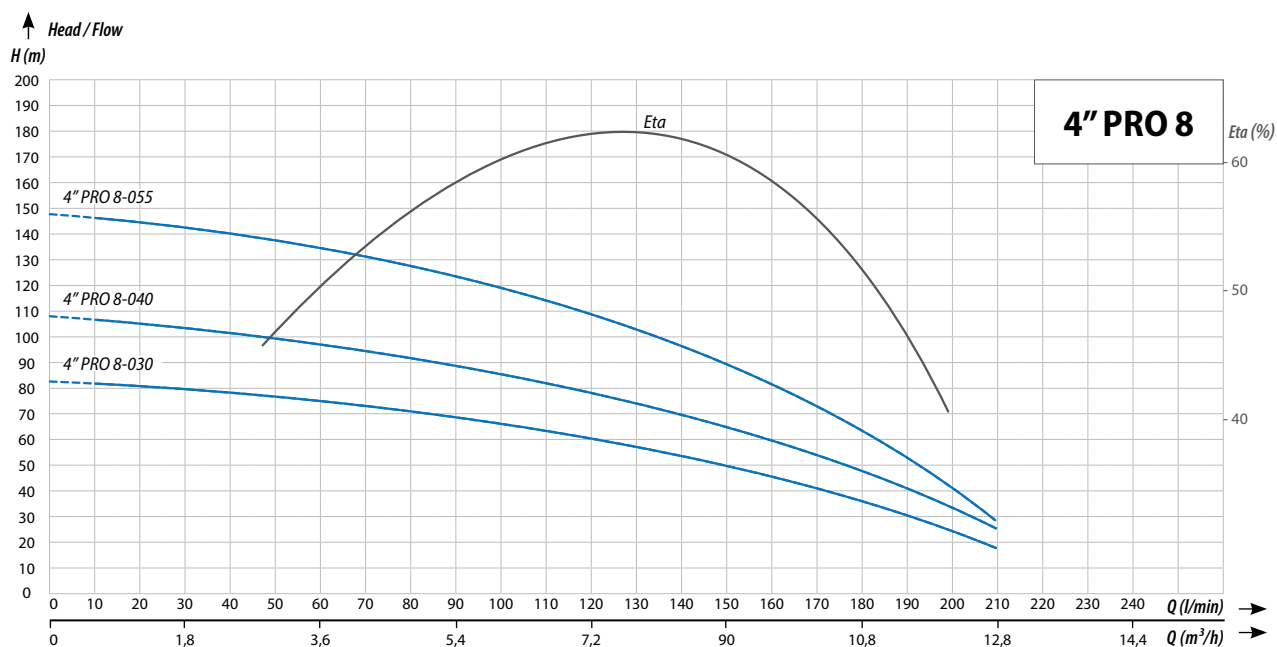


Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
4" PRO 4-015S	94	110	1,1 / 1,5	230	8,3	1¼	14	880	15,5
4" PRO 4-015T	94	110	1,1 / 1,5	400	3,3	1¼	14	880	14,5
4" PRO 4-022S	127	110	1,5 / 2	230	11	1¼	19	1028	18
4" PRO 4-022T	127	110	1,5 / 2	400	4,3	1¼	19	1013	16,5

4" PRO cont.

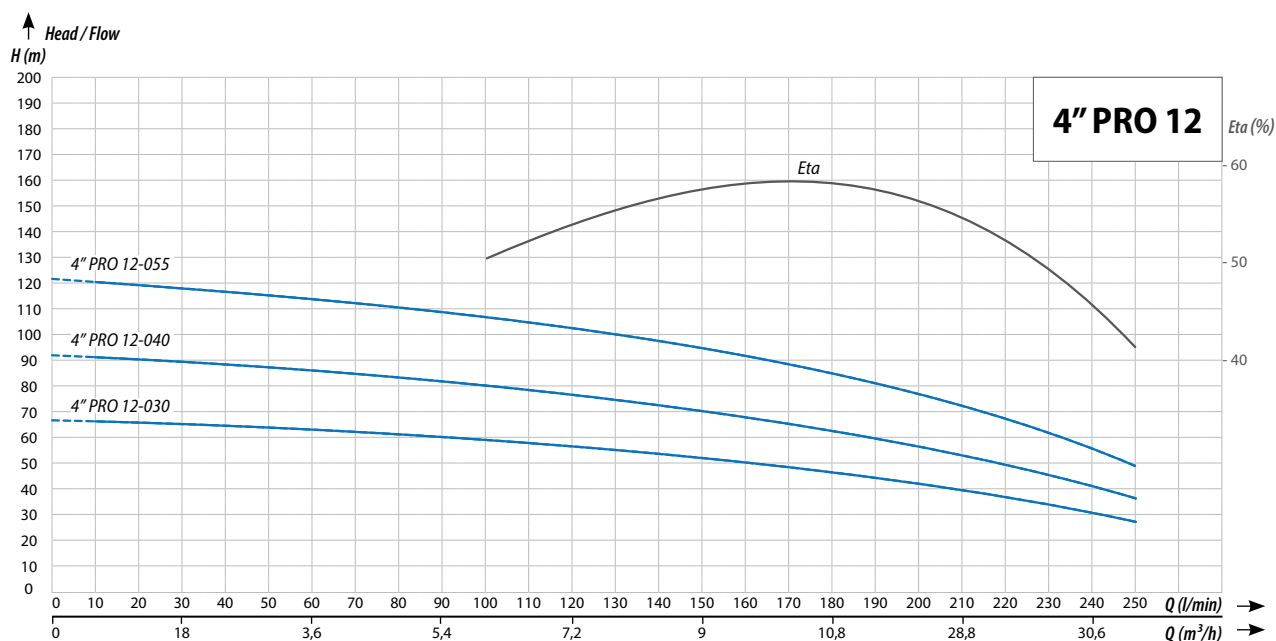


Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
4" PRO 6-022S	85	185	1,5 / 2	230	11	1 1/4	14	1050	18
4" PRO 6-022T	85	185	1,5 / 2	400	4,3	1 1/4	14	1035	16,5
4" PRO 6-030S	128	185	2,2 / 3	230	15,8	1 1/4	21	1418	25,5
4" PRO 6-030T	128	185	2,2 / 3	400	6	1 1/4	21	1343	21,5

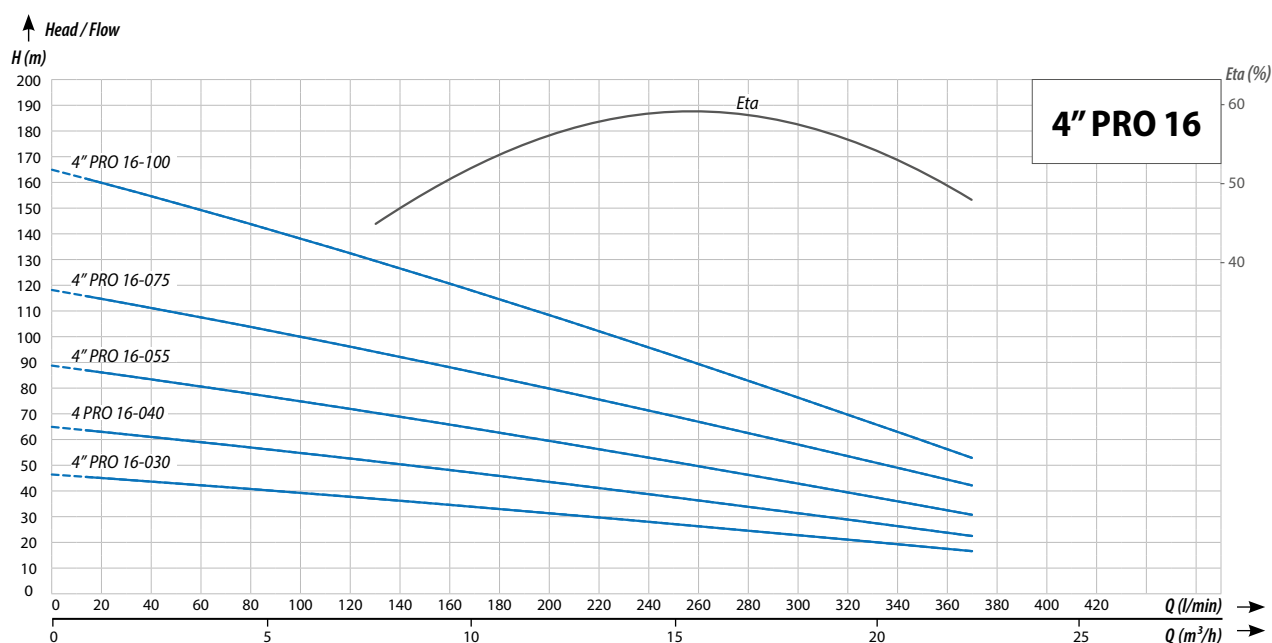


Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
4" PRO 8-030S	85	230	2,2 / 3	230	15,8	2	13	1142	23
4" PRO 8-030T	85	230	2,2 / 3	400	6	2	13	1067	19
4" PRO 8-040T	111	230	3 / 4	400	8	2	17	1231	23
4" PRO 8-055T	150	230	4 / 5,5	400	10,4	2	23	1539	30

4" PRO cont.



Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
4" PRO 12-030S	67	300	2,2 / 3	230	15,8	2	11	1311	24
4" PRO 12-030T	67	300	2,2 / 3	400	6	2	11	1236	20
4" PRO 12-040T	92	300	3 / 4	400	8	2	15	1531	25
4" PRO 12-055T	122	300	4 / 5,5	400	10,4	2	20	1865	32



Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
4" PRO 16-030S	47	430	2,2 / 3	230	15,8	2	8	1283	23,5
4" PRO 16-030T	47	430	2,2 / 3	400	6	2	8	1208	20
4" PRO 16-040T	65	430	3 / 4	400	8	2	11	1489	25
4" PRO 16-055T	89	430	4 / 5,5	400	10,4	2	15	1845	32,5
4" PRO 16-075T	118	430	5,5 / 7,5	400	13,9	2	20	2332	41,5
4" PRO 16-100T	165	430	7,5 / 10	400	18,7	2	28	2961	51,5

5" PRO

enhanced sand resistance

Multi-stage deep well pumps with a diameter of 133 mm, with improved sand resistance, designed for installation in wells with a minimum diameter of 6".

Pumps in 4", 5", 6", 8" sizes were equipped with radial impellers. In 5" models, the discharge outlets have a diameter of 3".

The 5" PRO series pumps are available with PRO motors with a 3-year warranty in 400 V ~ 3 / 50 Hz versions. The effect of increased sand resistance has been achieved through the use of "floating impellers" and the selection of wear-resistant materials: discharge and suction port, housing, shaft and filter mesh made of stainless steel and impellers made of high-quality reinforced plastic.

On request, it is possible to extend the cable by any length.

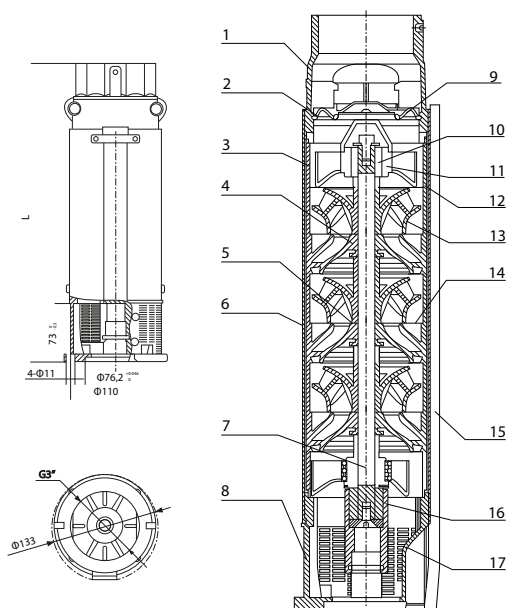
They have sand-resistant designs. The maximum sand content in the water is up to 5%.

APPLICATION:

- Supplying single-family houses and farms with water from deep wells
- Irrigation of gardens and orchards
- Site drainage
- Waterworks systems
- Firefighting systems
- Industry

TECHNICAL SPECIFICATIONS:

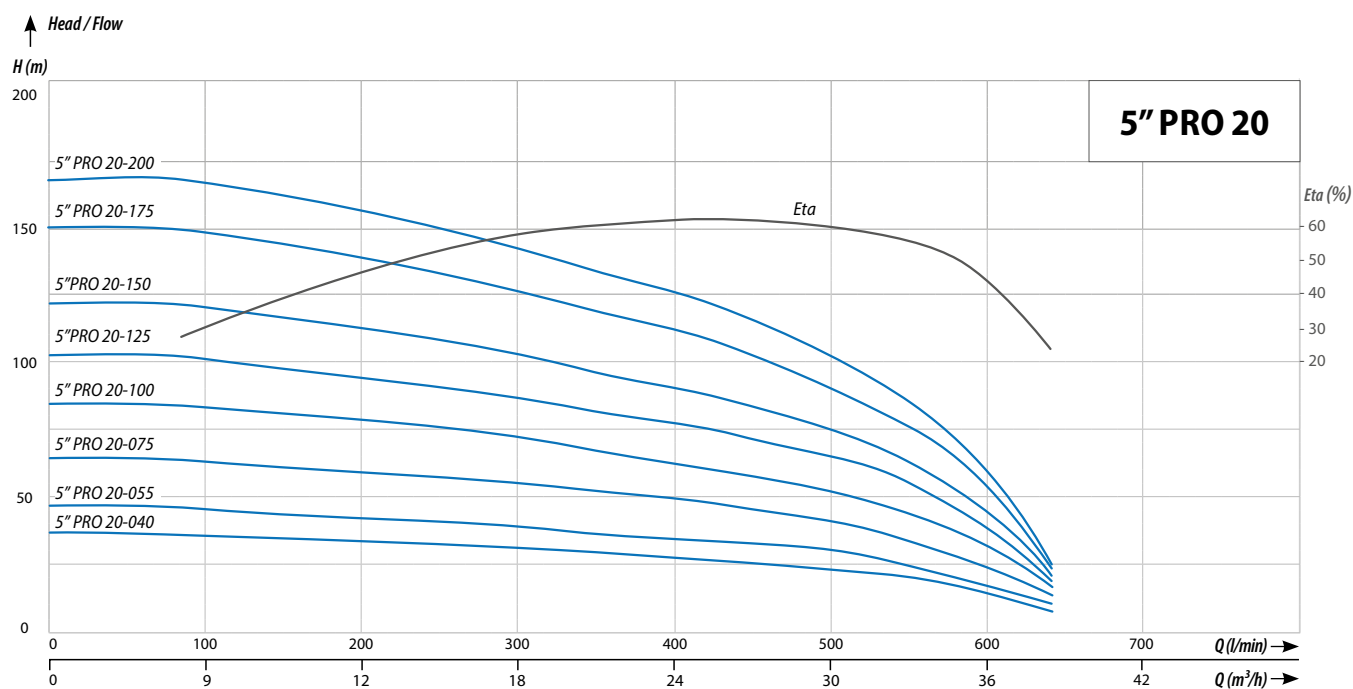
- Max. liquid temperature: 35°C
- Max. ambient temperature: 35°C
- Insulation grade: F
- Ingress protection IP68
- Operating mode: continuous
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Max. voltage spikes: +/- 10%
- Shaft connection: NEMA standard



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No.	Element	Material
1	Connection	AISI 304 / ASTM 200A
2	Check valve	AISI 201 stainless steel
3	Upper bracket	polimer PPO
4	Interstage bearing	NBR
5	Thrust bearing	AISI 201 stainless steel
6	Outer cover	AISI 304 stainless steel
7	Pump shaft	AISI 420 stainless steel
8	Bottom bracket	AISI 304 / ASTM 200A
9	Valve support	AISI 201 stainless steel
10	Shaft sleeve	AISI 304 stainless steel
11	Sleeve bearing	TPU
12	Diffuser	polimer PPO
13	Pump impeller	polimer PPO
14	Step body	AISI 201 stainless steel
15	Cable cover	AISI 304 stainless steel
16	Clutch	AISI 304 stainless steel
17	Filtration net	AISI 304 stainless steel

5" PRO cont.



Model	Head (m)	Flow (l/min)	Power (kW / HP)	Power supply (V)	Current consumption (A)	Discharge port (inches)	Number of steps	Length (mm)	Waga pompy (kg)
5" PRO 20-040	37	650	3 / 4	400	7,7	3	4	614	37,5
5" PRO 20-055	47	650	4 / 5,5	400	10,1	3	5	694,5	41
5" PRO 20-075	64	650	5,5 / 7,5	400	13,7	3	7	854,5	47,5
5" PRO 20-100	85	650	7,5 / 10	400	18,4	3	9	1015	53,5
5" PRO 20-125	103	650	9,2 / 12,5	400	22,4	3	11	1175	60
5" PRO 20-150	122	650	11 / 15	400	26,1	3	13	1335,5	68,5
5" PRO 20-175	150	650	13 / 17,5	400	30,9	3	16	1576	79
5" PRO 20-200	168	650	15 / 20	400	34,8	3	18	1736,5	80,5

6" PRO

enhanced sand resistance

Multi-stage deep well pumps with a diameter of 99 mm, with improved sand resistance, designed for installation in wells with a minimum diameter of 4". Pumps in 4", 6", 8" sizes were equipped with radial impellers. On 6" models, the discharge outlets have 3" diameters.

The 6" PRO series pumps are available with PRO motors with a 3-year warranty in 400 V ~ 3/50 Hz and 230 V/50 Hz versions. The effect of increased sand resistance has been achieved through the use of "floating impellers" and the selection of wear-resistant materials: discharge and suction port, housing, shaft and filter mesh made of AISI 304 stainless steel and impellers made of high-quality reinforced plastic. Pumps with 230 V/50 Hz motors are equipped with a starting box with an integrated capacitor and overcurrent protection.

Pumps with motors from 0,75 kW to 2,2 kW are available with a 1,5 m cable.

On request, it is possible to extend the cable by any length.

They have sand-resistant designs. The maximum sand content in the water is up to 5%.

APPLICATION:

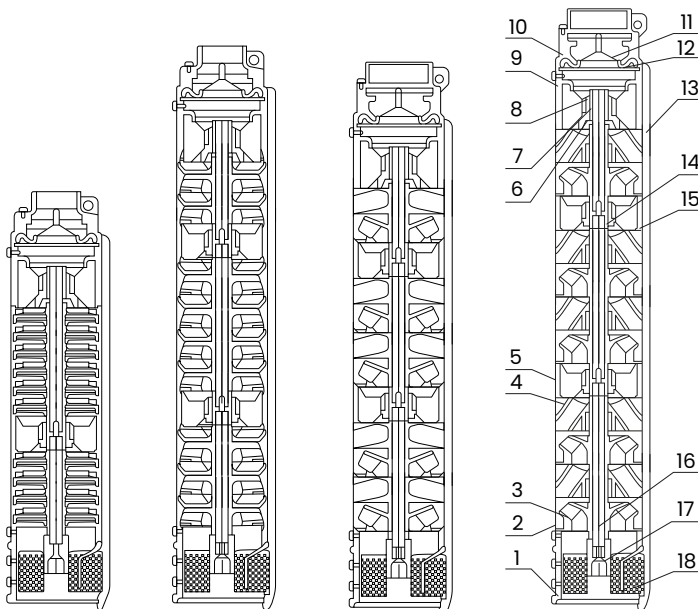
- Supplying single-family houses and farms with water from deep wells
- Irrigation of gardens and orchards
- Site drainage
- Waterworks systems
- Firefighting systems
- Industry

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Max. ambient temperature: 35°C
- Insulation grade: F
- Ingress protection IP68
- Operating mode: continuous
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Max. voltage spikes: +/- 10%
- Shaft connection: NEMA standard

MATERIALS:

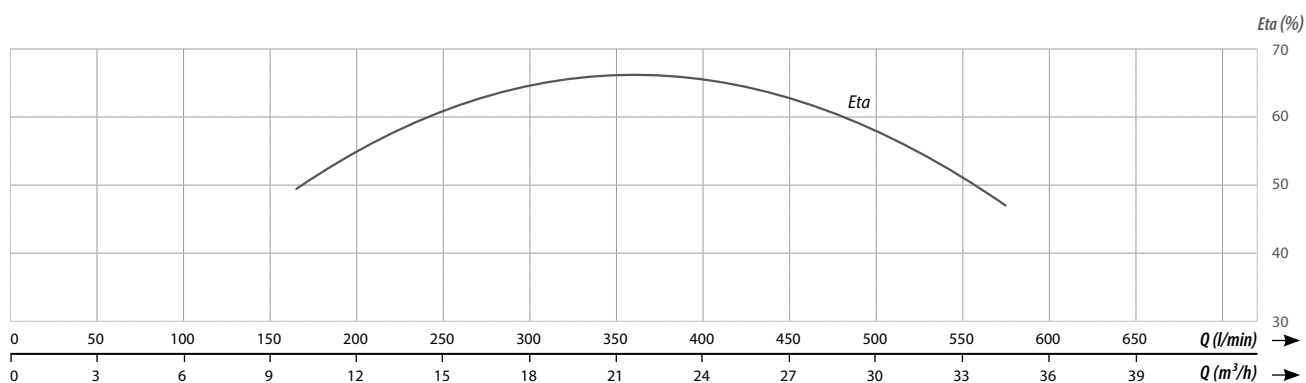
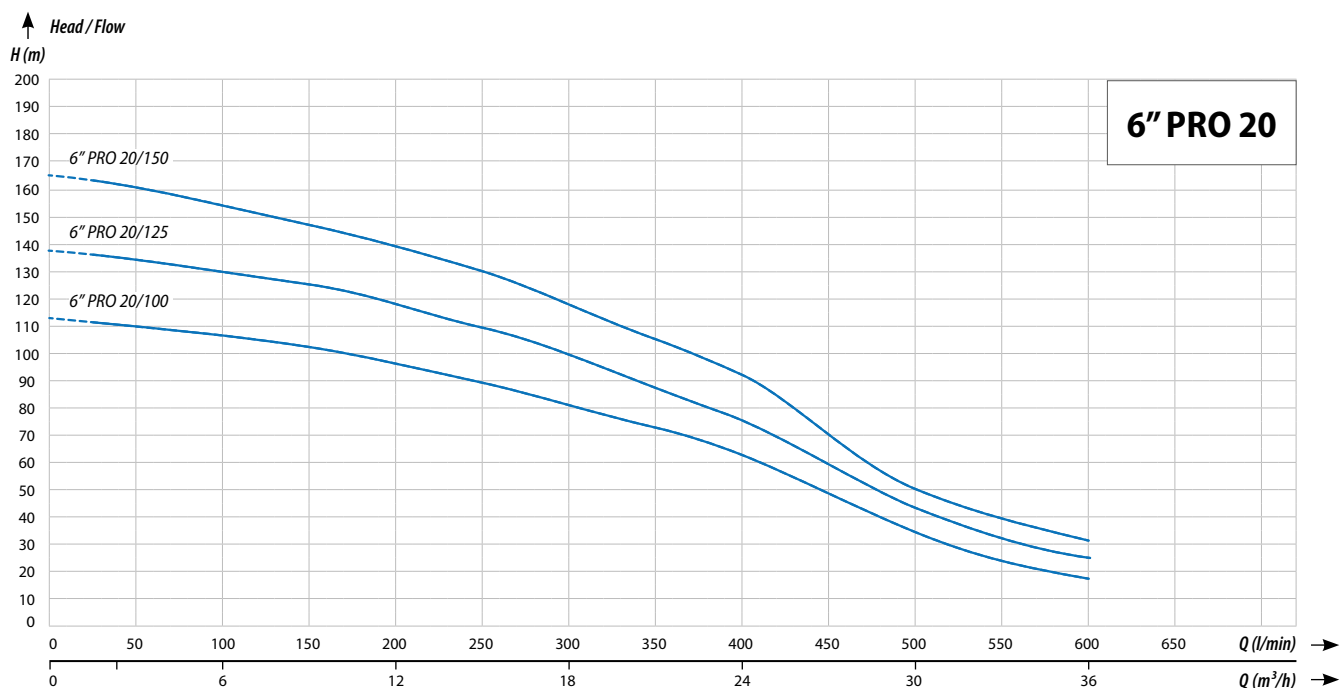
- Suction/discharge port: AISI 304 stainless steel
- Check valve: AISI 304 stainless steel
- Housing: AISI 304 stainless steel
- Shaft and rotor: AISI 420 stainless steel
- Diffuser: polimer PPO
- Impeller: polimer PPO
- Slip sleeve: AISI 304
- Clutch: AISI 304 stainless steel
- Mechanical seal: ceramic/SiC/NBR
- Motor: oil-filled
- Motor speed: 2850 RPM



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No.	Element	Material
1	Suction body	AISI 304 stainless steel
2	Diffuser enclosure	AISI 304 stainless steel
3	Impeller	reinforced polimer PPO
4	Diffuser	reinforced polimer PPO
5	Tube	AISI 304 stainless steel
6	Thrust bearing	AISI 304 stainless steel
7	Slip sleeve	AISI 304 stainless steel
8	Spacer sleeve	TPU
9	Upper bearing body	reinforced polimer PPO
10	Pump body	AISI 304 stainless steel
11	Check valve	AISI 304 stainless steel
12	Valve seat	AISI 304 stainless steel
13	Cable strip	AISI 304 stainless steel
14	Middle sliding sleeve	AISI 304 stainless steel
15	Middle bearing body	AISI 304 stainless steel
16	Shaft	AISI 304 stainless steel
17	Clutch	AISI 304 stainless steel
18	Filtration net	AISI 304 stainless steel

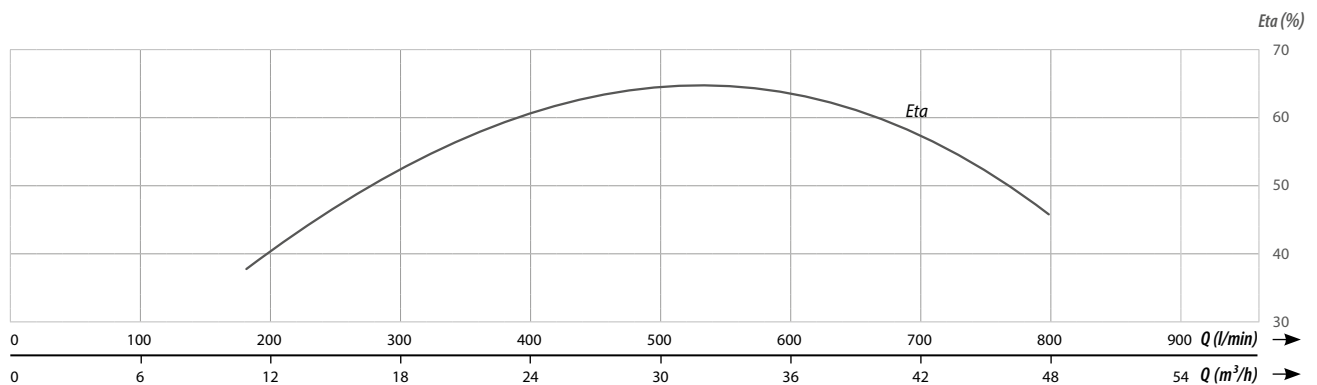
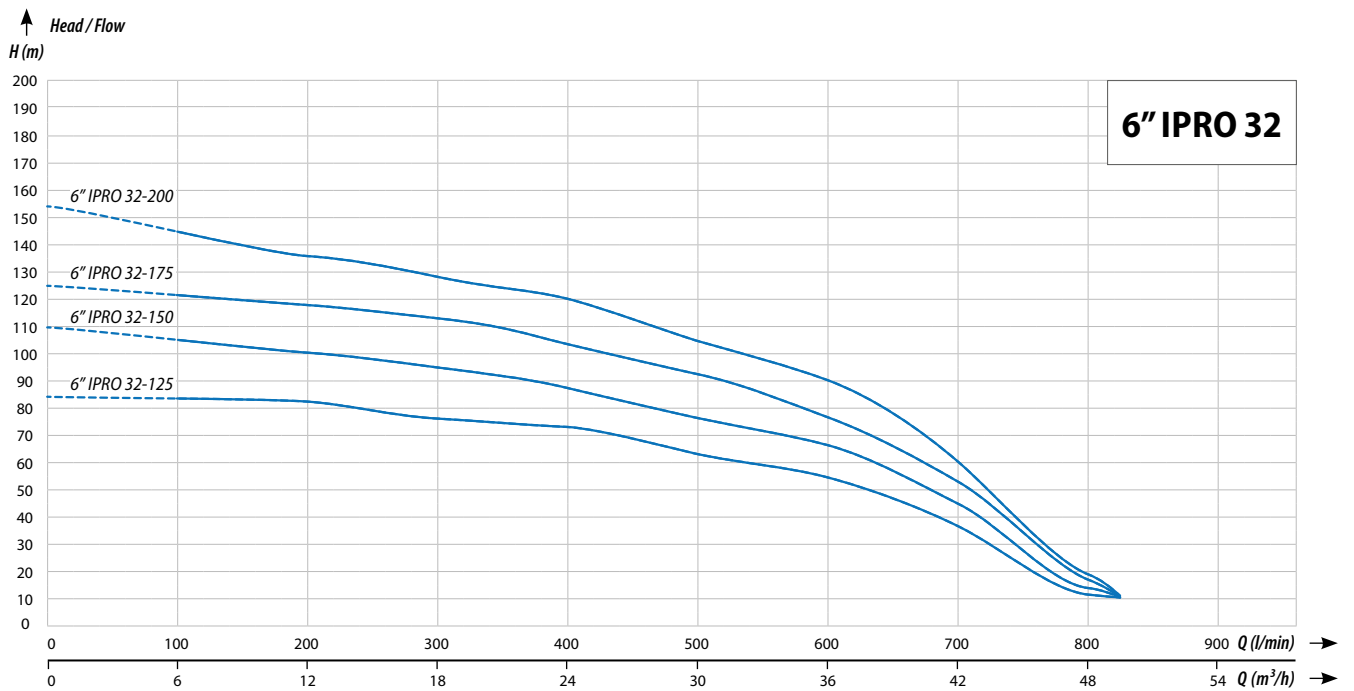
6" PRO cont.



Model	Number of steps	Power (kW)	Power (Hp)	Flow (Q)						
				l/min	0	150	250	350	400	500
				m³/h	0	9	15	21	24	30
6" PRO 20-100	9	7,5	10	Head H (m)	114	103	90	73	63	35
6" PRO 20-125	11	9,2	12,5		139	126	110	89	77	42
6" PRO 20-150	13	11	15		165	149	130	105	91	50

Model	Head (m)	Flow (l/min)	Power (kW / HP)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
6" PRO 20-100	114	700	7,5 / 10	3	9	1371,5	49
6" PRO 20-125	139	700	9,2 / 12,5	3	11	1514,5	57,5
6" PRO 20-150	165	700	11 / 15	3	13	1644,5	62,5

6" IPRO cont.



Model	Power (kW)	Power (Hp)	Flow (Q)								
			l/min	0	200	300	400	500	600	700	800
			m³/h	0	12	18	24	30	36	42	48
6" IPRO 32-125	9,2	12,5	Head H (m)	84	82	78	73	63	55	37	11
6" IPRO 32-150	11	15		110	100	95	89	77	67	45	14
6" IPRO 32-175	13	17,5		125	118	112	104	91	78	52	16
6" IPRO 32-200	15	20		154	136	129	120	105	90	60	19

Model	Head (m)	Flow (l/min)	Power (kW / HP)	Discharge port (inches)	Number of steps	Length (mm)	Weight (kg)
6" IPRO 32-125	84	820	9,2 / 12,5	3	9	1981	63
6" IPRO 32-150	110	820	11 / 15	3	11	2294	70
6" IPRO 32-175	125	820	13 / 17,5	3	13	2550	76,5
6" IPRO 32-200	154	820	15 / 20	3	15	2826	84,5

Motors

4" PRO Oil-filled
6" PRO Oil-filled
4" WMC PRO Water-filled
6" WMC PRO Water-filled
8" WMC PRO Water-filled
10" WMC PRO Water-filled



4" PRO oil-filled motors

Top-of-the-line oil-filled deep well motors with 4" diameters. High-quality original materials, demanding tests at every stage of production and Italian technology ensure high mechanical resistance and very good electrical properties of the product.

The electrical cable terminated with a removable seal ensures perfect tightness.

The motors have a diameter of 4" – 98 mm.

FEATURES:

- Stator: specifically designed for maximum electrical efficiency. Flooded with white, highly refined mineral oil approved for contact with potable water (F.F.A. approval)
- Shaft: inner part of the impeller made of carbon steel alloy to improve the electrical properties of the motor. This combination gives ideal corrosion resistance and high mechanical resistance necessary for high dynamic loads
- Replaceable cable seal: ensures perfect sealing in the harshest conditions and facilitates cable removal for maintenance purposes.

TECHNICAL SPECIFICATIONS:

- Max. water temperature: 35°C
- Insulation class: F
- Ingress protection: IP 68
- Operating mode: continuous
- Permissible voltage fluctuations: +10 %/-10 %
- Cooling oil used: non-toxic oil
- Working position: vertical / horizontal
- Possibility to work with an inverter
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Motor speed: 2850 RPM

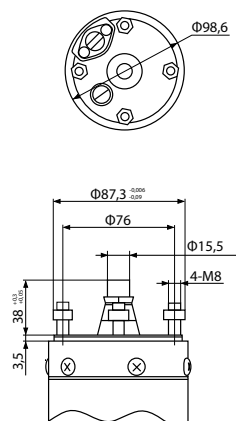
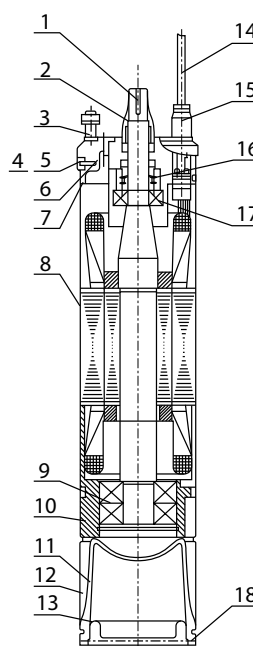
100% tested: all motors are tested at the end of the production process. The tests include electrical properties, mechanical properties and leakage tests.



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No.	Element	Material
1	Shaft	AISI 304 stainless steel
2	Shaft seal	NBR
3	Pins	AISI 304 stainless steel
4	Bolt	AISI 304 stainless steel
5	Screw	AISI 304 stainless steel
6	Upper body	cast iron + stainless steel/brass
7	O-ring	NBR
8	Tuba	AISI 304 stainless steel
9	Lower bearings	–
10	Lower body	ASTM 200A cast iron
11	Membrane	NBR
12	Oil	non-toxic
13	Bottom panel	AISI 304 stainless steel
14	Wire	–
15	Cable seal	AISI 304 stainless steel
16	Seal	ceramic / SIC / NBR
17	Top bearings	–
18	Ring	AISI 304 stainless steel
19	Priming screw	AISI 304 stainless steel



Model	Power (kW)	Current consumption (A)	Power supply (V)	Shaft thrust (N)	cos φ	Height (mm)	Weight (kg)
4" IO-S 150 4" IO-T 150	1,1	8,3 / 3,3	230 / 400	4000	0,93 / 0,76	432,5	10,5 / 10
4" IO-S 200 4" IO-T 200	1,5	11 / 4,3	230 / 400	4000	0,93 / 0,77	472,5 / 457,5	12,5 / 11
4" IO-S 300 4" IO-T 300	2,2	15,8 / 6	230 / 400	5000	0,93 / 0,78	585 / 510	17,5 / 13,5
4" IO-T 400	3	– / 8	400	5000	0,79	560	16
4" IO-S 550	4	– / 10,4	400	6500	0,79	634	21
4" IO-S 750	5,5	– / 13,9	400	6500	0,8	744	27
4" IO-S 1000	7,5	– / 18,7	400	6500	0,8	829	32



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6" PRO oil-filled motors

Motors designed for use in 6" or larger wells.

High-quality original materials, demanding tests at every stage of production and Italian technology ensure high mechanical resistance and very good electrical properties of the product. All parts in contact with water are made of AISI 304 stainless steel. The electrical cable terminated with a removable seal ensures perfect tightness.

FEATURES:

- Stator: specifically designed for maximum electrical efficiency. Flooded with white, highly refined mineral oil approved for contact with potable water (F.F.A. approval)
- Replaceable cable seal: ensures perfect sealing in the harshest conditions and facilitates cable removal for maintenance purposes.
- Shaft: inner part of the impeller made of carbon steel alloy to improve the electrical properties of the motor. The outer part of the shaft together with the splines was made of stainless steel.

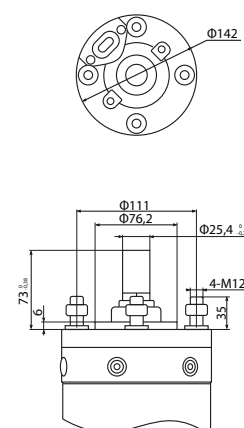
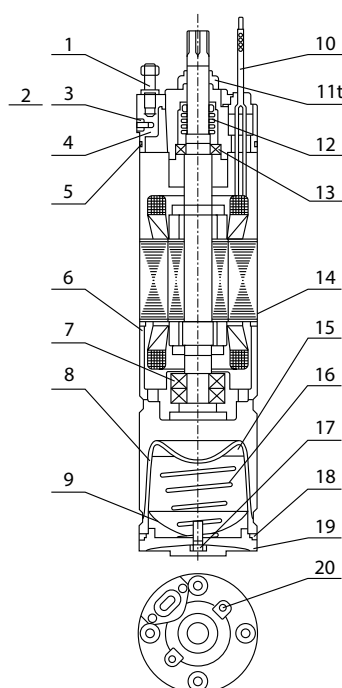
TECHNICAL SPECIFICATIONS:

- Max. water temperature: 35°C
- Insulation class: F
- Ingress protection: IP 68
- Operating mode: continuous
- Working position: vertical / horizontal
- Permissible voltage fluctuations: +10 %/-10 %
- Cooling oil used: non-toxic oil
- Possibility to work with an inverter
- Min. water flow: 0,16 m/s
- Max. immersion depth: 150 m
- Max. number of starts: 30/h
- Motor speed: 2850 RPM

100% tested: All motors are tested at the end of the production process. Tests include electrical properties, mechanical properties and leakage tests.



No.	Element	Material
1	Shaft	AISI 420 stainless steel ≤ 1,5 kW
		AISI 630 stainless steel ≥ 2,2 kW
2	Shaft seal	NBR
3	Pins	AISI 304 stainless steel
4	Bolt	AISI 304 stainless steel
5	Screw	AISI 304 stainless steel
6	Upper body	cast iron + stainless steel/brass
7	O-ring	NBR
8	Tube	AISI 304 stainless steel
9	Lower bearings	–
10	Lower body	ASTM 200A cast iron
11	Membrane	NBR
12	Oil	Non-toxic
13	Lower plate	AISI 304 stainless steel
14	Cable	–
15	Cable seal	AISI 304 stainless steel
16	Seal	ceramic / SiC / NBR
17	Lower bearings	–
18	Ring	AISI 304 stainless steel
19	Priming screw	AISI 304 stainless steel



Model	Power (kW)	Current consumption (A)	Power supply (V)	Shaft thrust (N)	RPM	cos φ	Height (mm)	Weight (kg)
6" IO-T 750	5,5	13,7	400	10 000	2850	0,81	655,5	32
6" IO-T 1000	7,5	18,4	400	10 000	2850	0,81	695,5	36
6" IO-T 1250	9,2	22,4	400	10 000	2880	0,81	738,5	41
6" IO-T 1500	11	26,1	400	10 000	2850	0,82	768,5	44
6" IO-T 1750	13	30,9	400	10 000	2860	0,82	798,5	46,5
6" IO-T 2000	15	34,8	400	10 500	2840	0,83	848,5	51,5

4" WMC PRO water-filled motors

High-quality 4" water-cooled deep well motors. Demanding tests at every stage of production, the expertise of engineers and high-quality materials ensure high quality, reliability and very good electrical properties of the product.

The durable design allows it to work for a long time without any maintenance. The WMC motor series is designed to drive deep well pumps in accordance with EN60034-1 (IEC 60034-1) at the supply voltage and current frequency requirements indicated on the nameplate.

The motor is powered by a frequency converter.

All motors can be powered by a frequency converter (30-50/60 Hz). If the motor is connected to a frequency converter, make sure that the resulting frequency never exceeds the motor's nominal frequency.

Motor with additional equipment – SOFT START: the maximum acceleration time (intermediate start) should not be more than 3 seconds.

FEATURES:

- Version 1 ~ from 0,37 kW to 3,7 kW
- Version 3 ~ from 0,37 kW to 7,5 kW
- Made to NEMA standard
- Premium materials
- Sand protection system
- Long trouble-free operation
- Possibility of cooperation with an inverter
- Possibility to attach a cable of a certain length (multiples of 5 m)
- Replaceable power cord, waterproof with plug for easy repair or replacement
- Starting box (in 230 V version) with an integrated overcurrent protection and capacitor
- Thermal protection integrated into the motor winding (230 V version)

TECHNICAL SPECIFICATIONS:

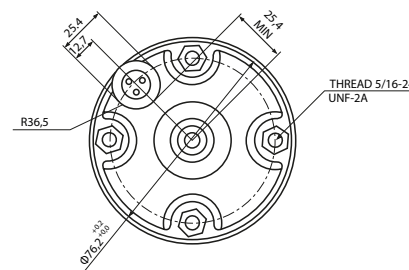
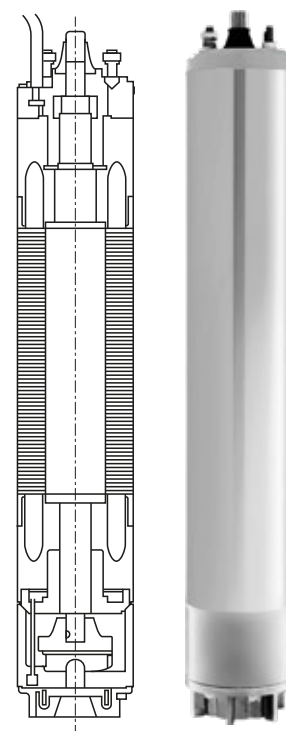
- Max. liquid temperature: 35°C
- Power supply: 230 V or 400 V
- Insulation grade: F
- Operating mode: continuous
- Ingress protection: IP68
- Power cord length: 1,5 m
- Working position: vertical / horizontal
- Max. number of starts: 30/h
- Max. immersion depth: 150 m
- Min. water flow around the motor: 0,15 m/s
- Motor speed: 2850 RPM
- Max. voltage fluctuation of supply current: -10%/+6% of nominal value
- Shaft elevation and flange dimensions conform to NEMA MG1: 2006 REV 1-2007

MATERIALS:

- Coolant: water
- Motor housing: AISI 304 stainless steel
- Shaft: AISI 304 stainless steel
- Mechanical seal: silicon carbide/carbon
- Outer part of the shaft: DUPLEX
- Gaskets: NBR
- Diaphragm: EPDM



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Model	Power (kW / HP)	Current consumption (A)	Shaft thrust (N)	Efficiency $\eta\%$	RPM	$\cos \varphi$	Height (mm)	Weight (kg)
4" WMC / 230 V	0,75 / 1	4,9	1500	69	2850	0,96	292	12
	1,1 / 1,5	7,5	1500	70	2880	0,92	340	15
	1,5 / 2	10,3	3000	72	2850	0,90	405	17
	2,2 / 3	14,5	3000	67	2860	0,98	539	24
4" WMC / 400 V	0,75 / 1	2,3	1500	68	2850	0,72	292	17
	1,1 / 1,5	2,7	1500	76	2880	0,83	340	24
	1,5 / 2	4,1	1500	74	2850	0,74	405	26
	2,2 / 3	6,3	6500	69	2860	0,76	539	24
	3 / 4	8,1	6500	73	2840	0,75	579	26
	4 / 5,5	10,4	6500	72	2860	0,76	692	31
	5,5 / 7,5	13,4	6500	79	2840	0,76	769	35
	7,5 / 10	18	6500	80	2860	0,77	828	38



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6" WMC PRO water-filled motors

The WMC motor series is designed to drive deep well pumps in accordance with EN60034-1 (IEC 60034-1) at the supply voltage and current frequency requirements indicated on the nameplate. Shaft elevation and flange dimensions conform to NEMA MG1: 2006 REV 1-2007. High-quality 6" water-cooled deep well pump motors + antifreeze coolant with a diameter of 143 mm. Demanding tests at every stage of production, the expertise of engineers and high-quality materials ensure high quality, reliability and very good electrical properties of the product. The durable design allows it to work for a long time without any maintenance.

All motors can be powered by a frequency converter (30-50/60 Hz). If the motor is connected to a frequency converter, make sure that the resulting frequency never exceeds the motor's nominal frequency.

Motor with additional equipment – SOFT START: the maximum acceleration time (intermediate start) should not be more than 1,5 seconds.

FEATURES:

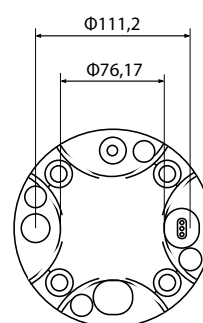
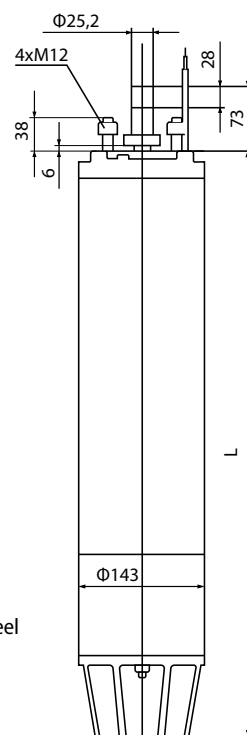
- Premium materials
- Long trouble-free operation
- Possibility to work with an inverter
- Possibility to attach a cable of a certain length (multiples of 5 m)
- Made to NEMA standard

TECHNICAL SPECIFICATIONS:

- Max. liquid temperature: 35°C
- Storage temperature: -15–60°C
- Power supply: 400 V
- Insulation grade: F
- Operating mode: continuous
- Ingress protection: IP68
- Power cord length: 3,5 m
- Working position: vertical / horizontal
- Max. number of starts: 20/h
- Max. immersion depth: 150 m
- Shaft load: 22000N for 5,5–7,5 kW motors, 25000 N for 9,2–18,5 kW motors
- Min. water flow around the motor: 0,5 m/s
- Max. voltage fluctuation of supply current: -10%/+6% of nominal value

MATERIALS:

- Coolant: water + antifreeze coolant
- Stator housing: AISI 304 stainless steel
- Shaft: AISI 431 stainless steel
- Mechanical seal: silicon carbide/silicon carbide
- Bearing: carbon, resistant to high axial loads



Model	Power (kW / HP)	Current consumption (A)	Shaft thrust (N)	Efficiency $\eta\%$	RPM	Ia/In (DOL / Y/D)	cos φ	Diameter (mm)	Height (mm)	Weight (kg)
6"WMC 65	4 / 5,5	10,3	22	74,8	2895	3,5 / 1,15	0,75	143	690	42
6"WMC 67	5,5 / 7,5	13,7	22	77,2	2890	4 / 1,35	0,75	143	735	46
6"WMC 610	7,5 / 10	17,9	22	78,4	2890	5,1 / 1,7	0,77	143	780	51
6"WMC 612	9,2 / 12,5	21,5	25	80,2	2890	4,9 / 1,65	0,77	143	810	54,5
6"WMC 615	11 / 15	25,6	25	80,7	2890	5,4 / 1,8	0,77	143	840	57
6"WMC 617	13 / 17,5	30,9	25	79,3	2885	4,6 / 1,55	0,765	143	890	63
6"WMC 620	15 / 20	34,9	25	80,1	2890	5 / 1,65	0,775	143	930	67
6"WMC 625	18,5 / 25	43,5	25	81,9	2885	4,7 / 1,55	0,75	143	1015	76
6"WMC 630	22 / 30	50,3	25	81,9	2880	5 / 1,65	0,77	143	1060	81
6"WMC 635	26 / 35	59,2	28	83,4	2880	4,8 / 1,6	0,76	143	1165	91,5
6"WMC 640	30 / 40	69,7	28	83,3	2885	5,7 / 1,9	0,745	143	1275	103
6"WMC 650	37 / 50	85,2	28	82,4	2875	6 / 2	0,76	143	1365	113

8" WMC PRO water-filled motors

High-quality 8" water-cooled and antifreeze-cooled deep well pump motors with a diameter of 191 mm. Demanding tests at every stage of production, the expertise of engineers and high-quality materials ensure high quality, reliability and very good electrical properties of the product.

The durable design allows it to work for a long time without any maintenance.

The motor is powered by a frequency converter.

All motors can be powered by a frequency converter (30-50/60 Hz). If the motor is connected to a frequency converter, make sure that the resulting frequency never exceeds the motor's nominal frequency.

Motor with additional equipment – SOFT START: the maximum acceleration time (intermediate start) should not be more than 1,5 seconds.

FEATURES:

- Made to NEMA standard
- Premium materials
- Long trouble-free operation
- Possibility to work with an inverter
- Possibility to attach a cable of a certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

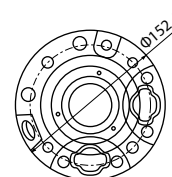
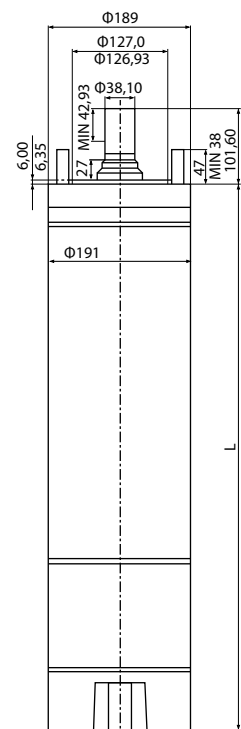
- Max. liquid temperature: 35°C
- Storage temperature: -15–60°C
- Power supply: 400 V
- Insulation grade: F
- Operating mode: continuous
- Ingress protection: IP68
- Power cord length: 4 m
- Working position: vertical / horizontal
- Max. number of starts: 15/h
- Max. immersion depth: 150 m
- Shaft load: 40000 N
- Min. water flow around the motor: 0,5 m/s
- Max. voltage fluctuation of current supply: -10%/+6% of nominal value

MATERIALS:

- Coolant: water
- Motor housing: AISI 304 stainless steel
- Shaft: AISI 431 stainless steel
- Mechanical seal: silicon carbide/silicon carbide
- Bearing: carbon, resistant to high semi-axial loads



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Model	Power (kW / HP)	Current consumption (A)	Shaft thrust (N)	Efficiency $\eta\%$	RPM	Number of starts (/h)	Ia/In (DOL / Y/D)	cos ϕ	Diameter (mm)	Height (mm)	Weight (kg)
8"WMC 830	22 / 30	46,6	22	82	2885	15	4,80 / 1,58	0,83	191	896	117
8"WMC 840	30 / 40	62,1	22	84	2885	15	4,80 / 1,58	0,83	191	956	133
8"WMC 850	37 / 50	73,3	22	85,2	2880	15	4,90 / 1,62	0,855	191	1026	146
8"WMC 860	45 / 60	90,2	25	85,5	2875	15	4,60 / 1,52	0,84	191	1076	155
8"WMC 875	55 / 75	108,2	25	85,3	2865	15	4,90 / 1,62	0,86	191	1156	170
8"WMC 880	59 / 80	117,4	25	85,6	2886	15	4,70 / 1,55	0,845	191	1166	175
8"WMC 885	63 / 85	125,7	25	84,4	2850	15	4,70 / 1,55	0,855	191	1196	179
8"WMC 890	66 / 90	133,5	25	85	2880	15	4,70 / 1,55	0,84	191	1266	194
8"WMC 895	70 / 95	137,1	25	86,2	2870	15	5,20 / 1,72	0,855	191	1296	196
8"WMC 8100	75 / 100	147,6	28	86,7	2875	15	5,20 / 1,72	0,845	191	1336	206
8"WMC 8110	81 / 110	160	28	87	2880	10	5,22 / 1,73	0,84	191	1426	223
8"WMC 8125	92 / 125	181,6	28	87	2880	10	5,22 / 1,73	0,84	191	1536	243

10" WMC PRO water-filled motors

High-quality 10" water-cooled and antifreeze-cooled deep well pump motors with a diameter of 236 mm. Demanding tests at every stage of production, the expertise of engineers and high-quality materials ensure high quality, reliability and very good electrical properties of the product. The durable design allows it to work for a long time without any maintenance. The motor is powered by a frequency converter.

All motors can be powered by a frequency converter (30–50/60 Hz).

If the motor is connected to a frequency converter, make sure that the resulting frequency never exceeds the motor's nominal frequency.

Motor with additional equipment – SOFT START: the maximum acceleration time (intermediate start) should not be more than 1,5 seconds.

FEATURES:

- Made to NEMA standard
- Premium materials
- Long trouble-free operation
- Possibility of cooperation with an inverter
- Possibility to attach a cable of a certain length (multiples of 5 m)

TECHNICAL SPECIFICATIONS:

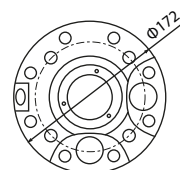
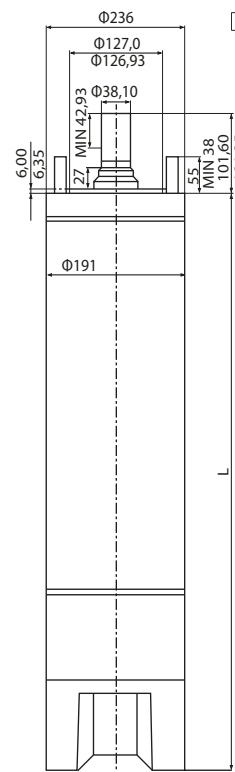
- Max. liquid temperature: 35°C
- Storage temperature: -15–60°C
- Power supply: 400 V
- Insulation grade: F
- Operating mode: continuous
- Ingress protection: IP68
- Power cord length: 4 m
- Working position: vertical / horizontal
- Max. number of starts: 10/h
- Max. immersion depth: 150 m
- Shaft load: 65000 N
- Min. water flow around the motor: 0,5 m/s
- Max. voltage fluctuation of supply current: -10%/+6% of nominal value

MATERIALS:

- Coolant: water
- Motor housing: AISI 304 stainless steel
- Shaft: stainless steel AISI 431
- Mechanical seal: silicon carbide/silicon carbide
- Bearing: carbon, resistant to high semi-axial loads



National Institute
of Public Health
NIH – National
Research Institute
Hygienic
Certificate



Model	Power (kW / HP)	Current consumption (A)	Voltage (V)	Shaft thrust (N)	Efficiency η %	RPM	Ia/In (DOL / Y/D)	cos φ	Diameter (mm)	Height (mm)	Weight (kg)
10"WMC 10100	75 / 100	157,3	380	65	74,8	2894	4,60 / 1,51	0,75	236	1226	242
		150	400			2905	4,80 / 1,58				
10"WMC 10110	81 / 110	170,4	380	65	77,2	2897	4,60 / 1,52	0,75	236	1266	263
		163	400			2910	4,80 / 1,58				
10"WMC 10125	92 / 125	193,3	380	65	78,4	2882	4,80 / 1,57	0,77	236	1316	277
		184,3	400			2900	5 / 1,65				
10"WMC 10150	110 / 150	226,1	380	65	80,2	2897	6,10 / 2,01	0,77	236	1446	317
		218	400			2910	6,33 / 2,09				
10"WMC 10175	129 / 175	261,6	380	65	80,7	2914	5,70 / 1,89	0,77	236	1546	345
		252,4	400			2925	5,95 / 1,96				
10"WMC 10200	147 / 200	301	380	65	80,1	2911	5,80 / 1,91	0,775	236	1736	368
		291	400			2920	5,98 / 1,97				
10"WMC 10225	165 / 225	330,2	380	65	81,9	2916	6,03 / 1,99	0,75	236	1856	412
		321	400			2925	6,20 / 2,05				
10"WMC 101250	185 / 250	368,5	380	65	81,9	2914	6,50 / 2,14	0,77	236	1956	442
		357	400			2925	6,70 / 2,21				

NOTES

Vessels

FIX horizontal
FIX vertical
FIX pressure tanks





FIX horizontal

Membrane tanks

Horizontal pressure tanks with a non-replaceable membrane designed for use with potable water. The tanks have a base and legs made of plastic, so the risk of the pump resonating is minimised. Tanks available in 24, 50, 80 and 100 litre sizes. Inside the steel vessel is a non-replaceable membrane made of butyl characterised by high tensile strength and resistance to high temperatures. It separates the liquid from the space occupied by air.

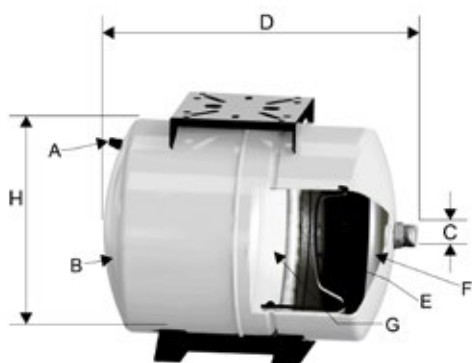
TECHNICAL SPECIFICATIONS:

- Stainless steel connection 1"
- Exterior surface with two-layer paint
- Epoxy and polyurethane acrylic paint
- Compliance with EU PED 2014/68/EU directive
- Max. working pressure 10 bar
- Membrane made of butyl



TANK CONSTRUCTION:

- A. Air valve seal
- B. Two-layer epoxy and polyurethane coating
- C. Stainless steel connection 1"
- D. Length
- E. Membrane made of butyl with approval
- F. Attested inner layer
- G. Initial pressure 2 bar
- H. Diameter



Model	Capacity (L)	Max. working pressure (bar)	Initial pressure (bar)	Ø Diameter (H) (mm)	Length (D) (mm)
FIX HORIZONTAL 24	24	10	2	334	425
FIX HORIZONTAL 50	50	10	2	350	550
FIX HORIZONTAL 80	80	10	2	450	690
ITALY FIX HORIZONTAL 100	100	10	2	544	727



FIX vertical

Membrane tanks

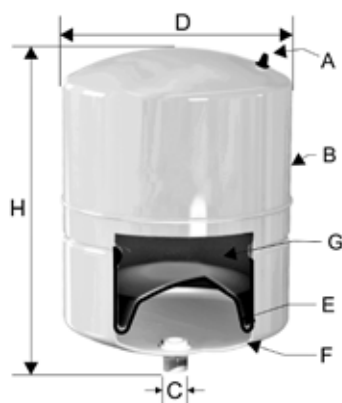
Horizontal pressure tanks with a non-replaceable membrane designed for use with potable water. The tanks have a base and legs made of plastic, so the risk of the pump resonating is minimized. Tanks available in 24, 50, 80 and 100 litre sizes. Inside the steel vessel is a non-replaceable membrane made of butyl characterized by high tensile strength and resistance to high temperatures. It separates the liquid from the space occupied by air.

TECHNICAL SPECIFICATIONS:

- Stainless steel connection 1" or 1¼"
- Exterior surface with two-layer epoxy paint and polyurethane acrylic paint
- Compliance with EU PED 2014/68/EU directive
- Max. working pressure 10 bar
- Membrane made of butyl

TANK CONSTRUCTION:

- A. Air valve seal
- B. Two-layer epoxy and polyurethane coating
- C. Stainless steel connection 1" or 1¼"
- D. Diameter
- E. Membrane made of butyl with approval
- F. Attested inner layer
- G. Initial pressure 2 or 3 bar
- H. Altitude



Model	Capacity (L)	Max. working pressure (bar)	Initial pressure (bar)	Ø Diameter (D) (mm)	Length (H) (mm)
FIX VERTICAL 50	50	10	2	350	625
FIX VERTICAL 80	80	10	2	400	730
FIX VERTICAL 100	100	10	2	500	770
FIX VERTICAL 150	150	10	3	500	920
FIX VERTICAL 200	200	10	3	600	1035
FIX VERTICAL 300	300	10	3	650	1132



FIX C.O. / C.W.U.

Pressure tank

Pressure tanks with a non-replaceable diaphragm – FIX are used to prevent excessive pressure build-up in closed systems. FIX CH/DHW pressure tanks are designed for use in hot and cold-water systems intended for consumption in order to maintain and equalize the pressure in them, the changes of which result from the increase in the volume of water; heating and solar systems in order to maintain and equalize the pressure in them, the changes of which result from the increase in the volume of the medium and temperature. Inside the steel tank is a non-replaceable membrane made of butyl characterized by high tensile strength and resistance to high temperatures. It separates the liquid from the space occupied by air.

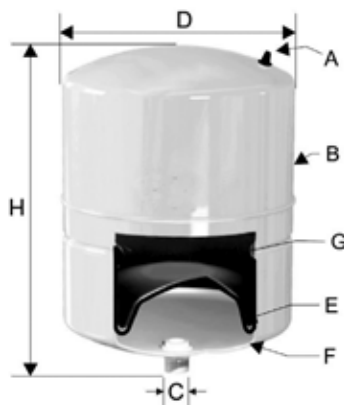
The tanks are designed for systems in which the glycol content does not exceed 50%.

TECHNICAL SPECIFICATIONS:

- Stainless steel connection $\frac{3}{4}$ "
- Exterior surface with two-layer paint
- Epoxy and polyurethane acrylic paint
- Compliance with EU PED 2014/68/EU directive
- Max. working pressure 10 bar
- Membrane made of butyl

TANK CONSTRUCTION:

- A. Air valve seal
- B. Two-layer epoxy and polyurethane coating
- C. Stainless steel connection $\frac{3}{4}$ "
- D. Diameter
- E. Membrane made of butyl with approval
- F. Attested inner layer
- G. Initial pressure of 2,5 bar
- H. Altitude



Model	Capacity (L)	Max. working pressure (bar)	Initial pressure (bar)	Diameter (Ø)	Height (H)
FIX 8 C.O. / C.W.U.	8	10	2,5	210	335
FIX 12 C.O. / C.W.U.	12	10	2,5	240	335
FIX 19 C.O. / C.W.U.	19	10	2,5	270	355
FIX 24 C.O. / C.W.U.	24	10	2,5	300	425
FIX 36 C.O. / C.W.U.	36	10	2,5	500	410

Circulation pumps

API



API

Energy-efficient electronic circulating pumps

PWM SIGNAL OPERATION

The energy efficiency factor of the API series pumps is:

$$EEI \leq 0,23$$

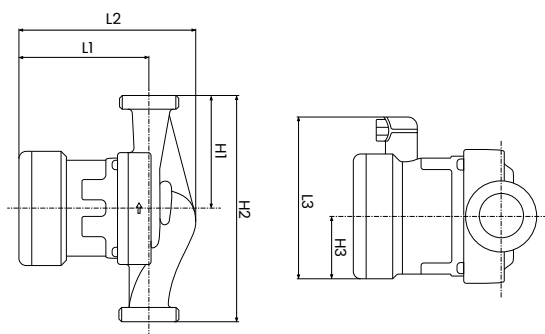
Energy-saving pumps are designed for forcing the circulation of central heating and in solar systems. The pumps feature an electronic processor that automatically controls the operation of the pumps, which, combined with a frequency converter, allows significant power savings.

The processor used gives the opportunity to choose from 9 modes of operation, depending on the needs of the system. Power consumption is 1/10 to 1/3 that of conventional pumps. The pump comes with a set of screws and a power cord.

APPLICATION:

API series circulation pump is best suited for the following systems:

- Fixed-temperature heating system with variable flow rate
- Heating system with variable pipeline temperature
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic CH and DHW system



Model	Dimensions (mm)					
	L1	L2	L3	H1	H2	H3
API 15-60/25-60/130	98	135	107.5	90	130	44
API 25-40/25-60/ 25-80/180					180	

Model	Mode of operation (x1)	Head (m)	Flow (l/min)	Power (W)	Diameter of ports (mm)	Spacing of ports (mm)	Weight (kg)
API 25-40/180	9	4,5	50	5-22	25	180	2,2
API 15-60/130	9	6	50	5-45	15	130	2,1
API 25-60/130	9	6	60	5-45	25	130	2,1
API 25-60/180	9	6	60	5-45	25	180	2,4
API 25-80/130	9	8	65	5-52	25	130	2,9
API 25-80/180	9	8	65	5-55	25	180	2,9
API 32-80/180	9	8	65	5-55	32	180	2,9

TECHNICAL SPECIFICATIONS

Electrical power supply	1 × 230 V +6% / -10%, 50 Hz	
Motor protection	No need for additional motor protection	
Protection grade	IP 44	
Insulation grade	F	
Max. ambient relative humidity	≤ 95%	
Max. pressure in the CH system	1 MPa	
Min. suction inflow pressure depending on the temperature of the heating medium	Temperature of the medium min, inflow pressure	
	≤ 85°C	0,005 MPa
	≤ 90°C	0,028 MPa
	≤ 110°C	0,100 MPa
EMC compliance	EN61000-6-1; EN61000-6-3	
Sound pressure of the running pump	43 dB (A)	
Permissible ambient temperature	0 -40°C	
Max. heat-up of the pump surface	TF 110	
Max. temperature of the heating medium	≤ 125°C	
Temperature range of the pumped liquid	2-110°C	

Accessories

PRO 1
MULTI PRESS 2
iQ PR IPC122M | IPC130M
iQ PR IPC140-2150
SP control cabinets
WATER PASS | WATER PASS 2
Electrical wires
Discharge and suction manifolds



PRO 1

Electronic controller

This is an electronic controller with a digital display that can be used to control the start and stop of single-phase pumps with a power of up to 1,5 kW. The start and stop pressure can be set using the control panel.

Thanks to convenient and simple wiring and separately adjustable start and stop pressure, the device meets various user needs. It can be used to control one pump or synchronously with a second controller controlling an auxiliary pump. The device can only be used to work with a pump

The device provides a display of parameters such as bar, psi, A, and also has protective functions such as overload, dry running, frequent start and stop of the pump, sensor failure and high pressure.

FEATURES:

- Adjustable on/off pressure
- Detection of faults related to water supply
- LCD display
- Integrated pressure sensor with fast response and higher accuracy
- Comprehensive digital display
- Overload protection
- Protection against dry operation (dry-running)
- Manual restoration of operation after error detection

APPLICATIONS:

- Farms, greenhouses, gardens
- Single-family houses
- Apartments



Specifications	
Max. water temperature	60°C
Max. ambient temperature	40°C
Rated voltage	110–230 V ± 10%
Frequency	50 / 60 Hz
Max. current	12 A
Max. power	1,5 kW
Protection grade	IP55
Shut-off pressure setting range	10 bar
Connection thread	1/4"

MULTI PRESS 2

This is an electronic controller with a digital display that can be used to control the starting and stopping of single-phase pumps up to 2,2 kW. The on/off pressure can be set using the control panel. With convenient and simple wiring and separately adjustable switch-on and switch-off pressure, the device meets various user needs.

It can be used to control a single pump, or synchronously with a second controller controlling an auxiliary pump.

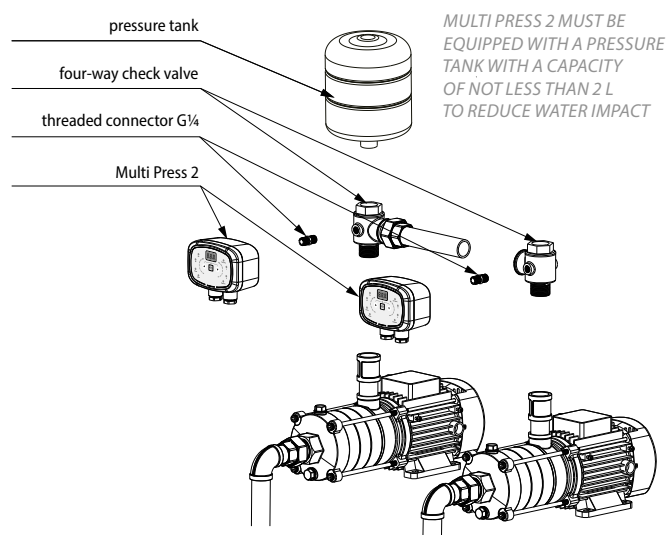
The device provides a display of parameters such as bar, psi, A, and also has protective functions such as overload, dry running, frequent starting and stopping of the pump, sensor fault and high pressure.

FEATURES:

- Adjustable on/off pressure
- Detection of faults related to water supply
- Integrated pressure sensor with fast response and higher accuracy
- Comprehensive digital display
- Control panel with integrated display and indicator LEDs
- Protection against frequent switching on and off, for example, in the event of damage to the diaphragm in the tank
- Overload protection
- Protection against dry operation (dry-running)
- Manual restoration of operation after error detection
- Possibility of cooperation of two pumps (main pump and auxiliary pump)

APPLICATIONS:

- Industry
- Farms, greenhouses, gardens
- Single-family houses
- Apartments



Specifications	
Max. water temperature	40°C
Max. ambient temperature	60°C
Rated voltage	110–240 V (alternating current, 1 ~)
Frequency	50 / 60 Hz
Max. current	10 A
Max. power	2,2 kW
Protection grade	IP65
Starting pressure setting range	0,5–7 bar
Shut-off pressure setting range	1–9 bar
Factory settings (switch-on/switch-off)	¾ bar
Ambient humidity	below 90%
Connection	G 1/4"
Weight	0,45 kg

IPC 122M / IPC 130M

Smart pump controllers

iQ PR's IPC series controllers use the original single-chip microcomputer technology, combining the advantages of advanced control and simple and convenient installation. Unique non-contact induction technology provides protection (pump shutdown) when the pump runs dry and there is not enough water in the tank, without having to install a probe in deep and narrow wells. The controller implements full, smart and maintenance-free pump management.

APPLICATION:

Wide range of applications for centrifugal pumps, submersible pumps, multi-stage pumps, deep well pumps, sewage pumps, booster pumps and in-line pumps.

KEY FUNCTIONS:

- Trigger signal: float indicator, pressure sensor, pressure switch, electrode
- Fault status: display of fault code, light and sound signal of fault
- Automatic calibration button for overcurrent/undercurrent parameters (adjustable no-load start delay)
- Automatic recovery from voltage drop or rise
- Water supply of a pressure tank, drainage from a non-pressure tank, constant control of pipeline pressure
- Digital voltmeter, ammeter and three state liquid level display in the tank
- Pump blockage protection, dry running protection, overcurrent protection, undercurrent protection, phase loss protection, protection against overvoltage or voltage drop, short circuit protection
- AUTO/manual mode toggle button
- Automatic restoration of the set operating mode after a fault
- No-load restart: adjustable range 0–999 min



FUNCTIONS FOR THE TWO-PUMP SERIES Y2:

- Control functions: automatic control, one pump in use and the other in standby mode, two pumps work simultaneously

CONTROL MODE:

- One pump operates, the other remains on standby
- Two pumps operate alternately;
- In case of fault of one pump, the other starts automatically, and simultaneous operation of two pumps at high rate

KEY PARAMETERS:

- Corrosion inspection time: adjustable range 0–30 days
- Dry-run response time: 0,1 s–3 min
- Overload response time: 0,1 s–3 min
- Automatic response to fault: 1 s
- Phase loss response time: < 2 s

Technical data	IPC 122M / IPC 130 M – single pump	
Model / power range	IPC 122 IPC 130	0,37–2,2 kW 0,37–3 kW
Operating temperature	–20–50°C	
Range of input voltage	220 +/- 10% 50 Hz	
Range of supported voltage	176–264 V (adjustable)	
Display	LCD display	
Start-up	Direct	
Types of supported indicators	Float indicator Conductometric probe Pressure sensor Electronic pressure switch	
Liquid level indications	High/Medium/Low	
Max. signal transmission distance	2000 m without strong electromagnetic interference	
Humidity range	20–90% RH, without water droplets	
Installation	Wall mounting	
Product ranges	210 / 139 / 65 0,64 kg	

IPC 140-275

Smart pump controllers

KEY FUNCTIONS:

- Trigger signal: Float indicator, pressure sensor, pressure switch, electrode
- Fault status: Fault code display, light and sound signal of fault
- Automatic calibration button for overcurrent/undercurrent parameters (adjustable no-load start delay)
- Automatic recovery from voltage drop or rise
- Water supply of a pressure tank, drainage from a non-pressure tank, constant control of pipeline pressure
- Digital voltmeter, ammeter and three state liquid level display in the tank
- Pump blockage protection, dry running protection, overcurrent protection, undercurrent protection, phase loss protection, protection against overvoltage or voltage drop, short circuit protection
- AUTO/manual mode toggle button
- Automatic restoration of the set operating mode after a fault
- No-load restart: adjustable range 0–999 min

FUNCTIONS FOR THE IPC2 M/T TWO-PUMP SERIES:

- Control functions: automatic control, one pump in use and the other in standby mode, two pumps work simultaneously
- Control mode: one pump operates, the other remains on standby; two pumps operate alternately; in case of fault of one pump, the other starts automatically, and simultaneous operation of two pumps at high rate



KEY PARAMETERS:

- Pump rotation time: adjustable value 0–480 min
- Corrosion inspection time: adjustable range 0–30 days
- Dry-run response time: 0,1 s–3 min
- Overload response time: 0,1 s–3 min
- Automatic response to fault: 1 s
- Phase loss response time: < 2 s

Technical data	IPC 1 M/T – single pump		IPC 2 M/T – two pumps	
Model / Power range	IPC 140 IPC 175	0,75–4 kW 1,1–7,5 kW	IPC 240 IPC 275	0,75–4 kW 1,1–7,5 kW
Range of input voltage	220 (M) +/- 10% or 380 (T) +/- 10% 50 Hz			
Display	LCD display			
Start-up	Direct			
Types of supported indicators	Float indicator Conductometric probe Pressure sensor Electronic pressure switch			
Liquid level indications	High / Medium / Low			
Max. signal transmission distance	2000 m without strong electromagnetic interference			
Range of supported voltage	304–456 V or 176–264 V (adjustable)			
Operating temperature	-25–55°C			
Humidity range	20–90% RH, without water droplets			
Installation	Wall mounting			
Product ranges	330 / 220 / 135 mm			

SP control cabinets

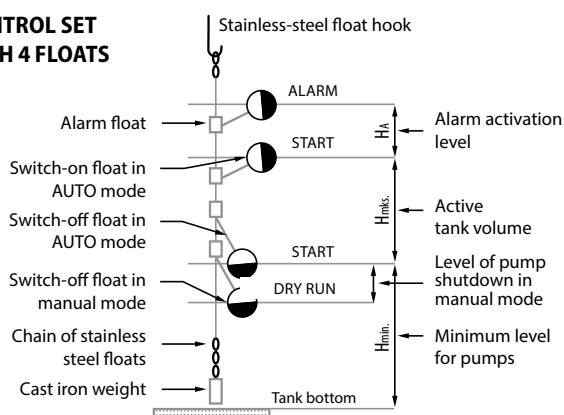
DAMBAT offers professional control cabinets for controlling the operation of pumps in pumping stations, at sewage treatment plants and according to special guidelines of the customer. All the cabinets we manufacture have a number of safety features and facilities necessary to ensure the proper operation and protection of your pumps:

- **SPP** for domestic pumping stations,
- **SPS** for municipal wastewater pumping stations,
- **SPD** for rainwater pumping stations.

Advanced control of pumping stations manufactured by DAMBAT implements a number of control and safety functions for pump operation. It will be perfect for residential communities, schools, offices, large companies or professional municipal applications. Allows pumps to work automatically or switch to manual operation. The cabinet's housing allows it to be used outdoors without fear of rain, snow or dust. A warning lamp on the housing indicates pump fault, overfilling or other problems with the pumping station. The modular design makes it possible to quickly replace components damaged by, for example, a power surge.



CONTROL SET WITH 4 FLOATS



Each of our control cabinets has a non-combustible polyester housing with gaskets in the doors, watertight cable seals and at least one lock to prevent accidental opening by unauthorised persons

Inside the cabinets you will find the electrical diagram and a detailed description of the connection of the cables of pumps, level indicators and main power supply.

DIFFERENCES IN THE DESIGN OF SPP AND SPS/SPD CABINETS



SPP – simple control with buttons on components, easy access to all elements. Plinth screwed to the tank or dug into the ground to be purchased separately.



SPS/SPD – operator panel on the inner door, illuminated lamps (OPERATION, PUMP FAULT, ALARM, DRY RUN), knobs for automatic and manual operation and START/STOP of the pump. Main switch and a 230V service outlet on the panel. A buried plinth (screwed to the tank plate) included

Model	SPP		SPS		SPD	
Number of pumps	1	2	1	2	1	2
Starting	Direct		0,37-4 kW direct, from 4 kW star-delta starting or optional SOFT-START			
Main switch	Yes		Yes		Yes	
Motorised switch	Yes		Yes		Yes	
Residual current circuit breaker	Yes		Yes		Yes	
Phase loss or phase sequence sensor	Yes*		Yes*		Yes*	
AUTO/MANUAL control	Yes		Yes		Yes	
Alternate operation of 2 pumps	–	Yes	–	Yes	–	Yes
Number of control levels	3		4		4	
Signalling set	ZSP-3		ZSP-4, ZSP-5S, SP-SH2P		ZSP-5, ZSP-6S, ZSP-SH2P	
Operator panel	–		Yes		Yes	
Fault signalling with alarm lamp on the housing	Yes		Yes		Yes	
Overflow signalling	Yes		Yes		Yes	
Pump timer	–		Yes		Yes	
230 V service socket	–		Yes		Yes	
Plinth included	Additional option		Yes		Yes	
Temperature and leakage sensor	–		Additional option			
Socket/mains socket	–		Additional option			
Voltmeters/ammeters	–		Additional option			

* Only in 3 ~ 400 V versions

WATER PASS | WATER PASS 2

Electronic pump controller

The WATER-PASS controller is an electronic device used to control the operation of the pump. The device controls the operation of the pump by analysing changes in the level of water pressure in the pipeline and the flow of water through the pipeline. With user-adjustable switching pressure, the device fully replaces traditional pressure switches.

The device also protects against dry-running (operation of the pump without water). An integrated check valve prevents the system from returning water to the pump.

WATER-PASS 2 to WATER-PASS was equipped with a tank with a capacity of 1 L to reduce hydraulic shock. The switching pressure is factory set at 1,5 bar.

The WATER-PASS smart controller is designed to control the pump by switching the device on and off. Switching on depends on the drop of water pressure in the water system below the switching pressure set on the automatic control, and the creation of flow in the pipe on which the control is installed. In practice, the device turns on the pump when the water tap is opened, or the sprinklers are opened, and turns off about 6 s after the tap is turned off or the sprinklers are closed. The device features dry running protection (preventing operation of the pump without water). In case of lack of water in the device, the controller shuts down the pump preventing its destruction.

The device can work directly connected to pumps whose motors do not draw more current during operation than 12 A.

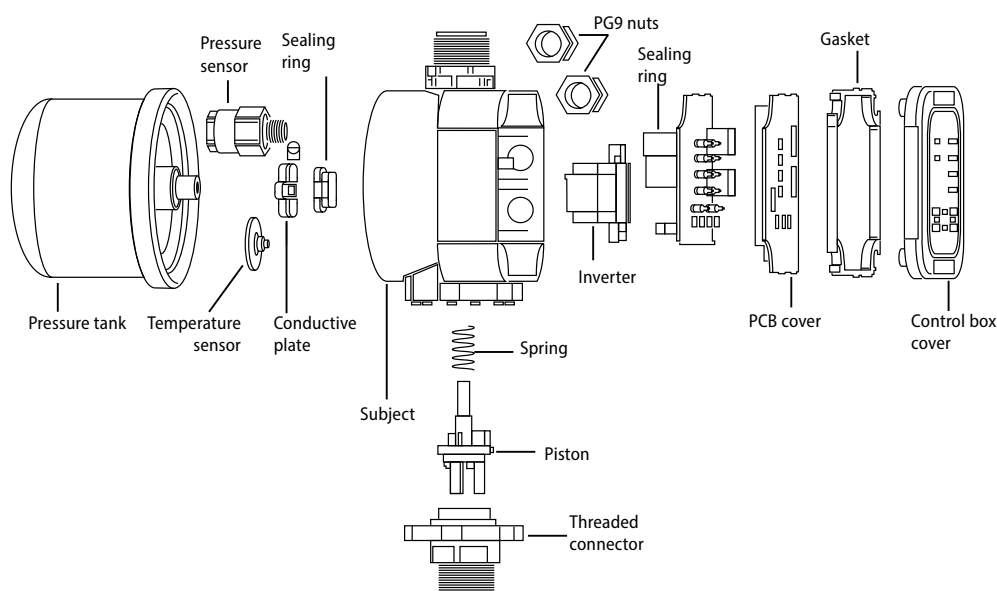
For most single-phase motors, less than 12 A current is drawn by motors up to 2,2 kW. The device is designed to work with clean water without mechanical impurities. The maximum water temperature should be less than 80°C.

WATER-PASS 2 is equipped with a 1 L tank and no additional tank should be installed. To increase the flexibility of the system's operation, a small pressure vessel can be fitted to the WATER-PASS model.



TECHNICAL SPECIFICATIONS:

- Max. ambient temperature: 40°C
- Max. liquid temperature: 80°C
- Supply voltage: 100–260 V
- Supply current frequency: 50/60 Hz
- Max. power of the controlled pump: 2,2 kW
- Max. current consumption of the controlled pump: 12 A
- Ingress protection: IP65
- Max. working pressure: 15 bar
- Switching pressure range: 0–10 bar
- Vertical working position
- WATER-PASS 2: 1 L tank capacity
- Printed circuit protection: epoxy resin
- Dry-run protection: 8 s



Electric wires

H07RN-F power and control cable, rubber, heavy duty, 450/750 V, class 5, -25–60°C, oil resistant, flame retardant.

Compliance: PN-EN 60228/PN-EN 60332-1

FEATURES:

- Resistant to low temperatures
- Resistant to mechanical damage
- Oil resistance
- UV resistance

APPLICATION:

- Hand-held and power devices
- Average mechanical loads
- Application in industry and agriculture
- In dry, wet and humid environments

Depending on delivery, dimensions may vary from those declared.



TECHNICAL DATA	
Components	Features
Nominal voltage	450 / 750 V
Conductor material	copper
Number of conductors	3 / 4
Conductor identification	colour
Conductor type	multi-stranded (flexible)
Conductor insulation	rubber (EPR)
Conductor class	class 5 = flexible
Outer shell material	rubber (EPR)
Permissible cable temperature	-25–60°C
Insulation color	black
Shape	round
Coating	chloroprene

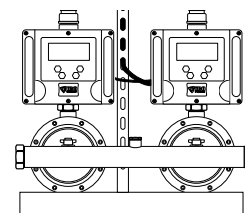
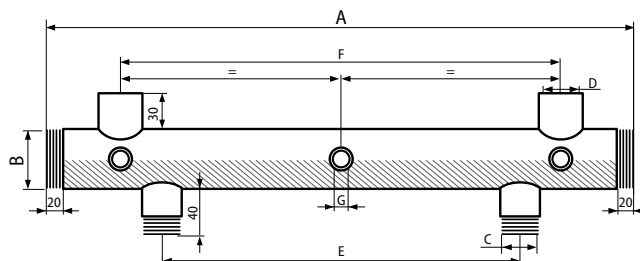
Model number of conductors × conductor diameter (mm ²)	Number of conductors/Insulation color	
	working	protective
	2 (brown, blue)	1 (yellow-green)
Outer diameter (mm)		
3 × 1,5	9,5	
3 × 2,5	10,5	
3 × 4	13	
3 × 6	14,5	
3 × 10	22,4	

Model number of conductors × conductor diameter (mm ²)	Number of conductors/Insulation color	
	working	protective
	3 (brown, black, blue)	1 (yellow-green)
Outer diameter (mm)		
4 × 1,5	10,5	
4 × 2,5	12,5	
4 × 4	14,5	
4 × 6	16,2	
4 × 10	21,5	

Model	Power (kW)	1 mm ²	1,5 mm ²	2,5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
230 V	0,37	50 m	75 m	125 m	–	–	–	–
230 V	0,55	38 m	57 m	95 m	152 m	–	–	–
230 V	0,75	30 m	45 m	45 m	120 m	175 m	–	–
230 V	1,1	22 m	33 m	53 m	85 m	127 m	210 m	–
230 V	1,5	23 m	38 m	63 m	92 m	154 m	246 m	–
230 V	2,2	28 m	45 m	67 m	112 m	180 m	–	–
400 V	0,37	240 m	–	–	–	–	–	–
400 V	0,55	164 m	246 m	–	–	–	–	–
400 V	0,75	133 m	200 m	233 m	–	–	–	–
400 V	1,1	97 m	146 m	244 m	390 m	–	–	–
400 V	1,5	72 m	109 m	180 m	290 m	435 m	–	–
400 V	2,2	51 m	78 m	130 m	207 m	310 m	516 m	–
400 V	3	41 m	62 m	104 m	167 m	250 m	416 m	–
400 V	4	31 m	46 m	77 m	124 m	186 m	310 m	496 m
400 V	5,5	33 m	56 m	90 m	135 m	225 m	360 m	–
400 V	7,5	25 m	66 m	100 m	165 m	270 m	–	–

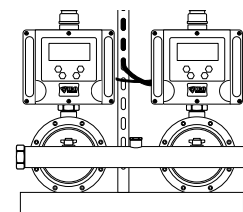
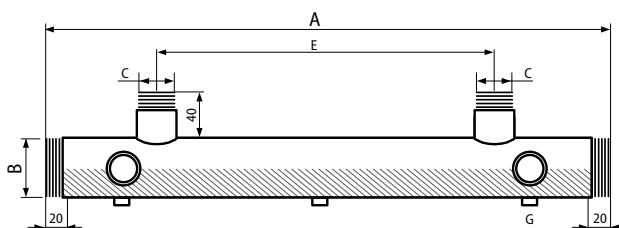
Discharge and suction manifolds

Discharge manifold for two-pump sets



Model	A Length (mm)	B Main pipe (inches)	C Ports (inches)	D Ports (inches)	E Distance between pumps (mm)	F Spacing (mm)	G Output (inches)	Weight (kg)
2500	500	1½	1 M**	1 F**	300	370	¼ F	1,92
2503	500	2	1 M**	1 F**	300	370	¼ F	2,41
2501	500	2	1¼ M**	1 F**	300	370	¼ F	2,45
2510	700	2	1¼ M**	1 F**	360	370	¼ F	2,6
2505	500	2	1½ M**	1 F**	300	370	¼ F	1,5
2511	700	2	1½ M**	1 F**	360	390	¼ F	3,34
2502	500	2½	1¼ M**	1 F**	300	370	¼ F	3
2513	700	2½	1¼ M**	1 F**	360	390	¼ F	3,3
2506	500	2½	1½ M**	1 F**	300	370	¼ F	3,1
2512	700	2½	1½ M**	1 F**	360	390	¼ F	3,3
2504	700	3	2 M**	1 F**	360	390	¼ F	5,8
2514	700	DN100*	3 M**	1 F**	360	390	¼ F	6
Manifold thickness: 3 mm								

Discharge manifold for two-pump vertical groups

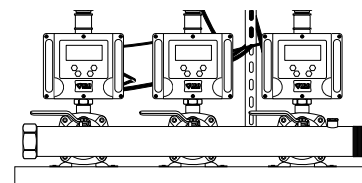
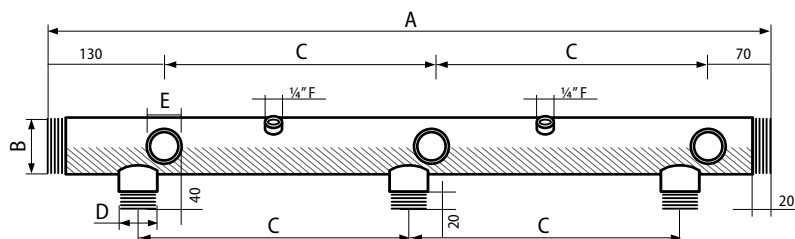


Model	A Length (mm)	B Main pipe (inches)	C Ports (inches)	E Distance between pumps (mm)	G Output (inches)	Weight (kg)
2500 90	500	1 ½	1 M**	300	½ F**	1,8
2503 90	500	2	1 M**	300	½ F**	2,2
2501 90	500	2	1¼ M**	300	½ F**	2,22
2510 90	700	2	1¼ M**	360	½ F**	2,22
2505 90	500	2	1½ M**	300	½ F**	3,1
2511 90	700	2	1½ M**	360	½ F**	2,8
2502 90	500	2½	1¼ M**	300	½ F**	3
2513 90	700	2½	1¼ M**	360	½ F**	2,8
2506 90	500	2½	1½ M**	300	½ F**	3
2512 90	700	2½	1½ Mv	360	½ F**	3,5
2504 90	700	3	2 M**	360	½ F**	3,8
Manifold thickness: 3 mm						

* Flange ** M – male, F – female

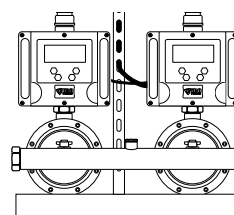
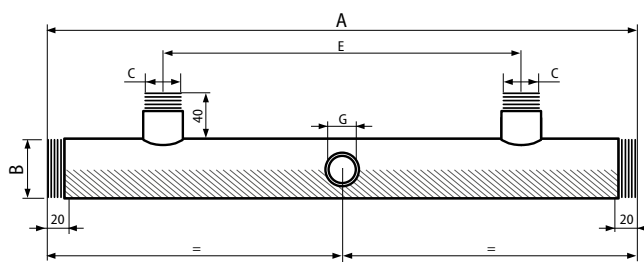
Discharge and suction manifolds cont.

Discharge manifold for three-pump vertical group



Model	A Length (mm)	B Main pipe (inches)	C Distance between pumps (mm)	D Ports (inches)	E Ports (inches)	F Output (inches)	Weight (kg)
2500	800	2	300	1 M**	1 F**	1/4 F**	4
2503	800	2	300	1 1/4 M**	1 F**	1/4 F**	4,3
2501	800	2 1/2	300	1 1/4 M**	1 F**	1/4 F**	4,8
2510	800	2 1/2	300	1 1/2 M**	1 F**	1/4 F**	5
2505	800	3	300	2	1 F**	1/4 F**	5,9
Manifold thickness: 3mm							

Suction manifold of two-pump groups

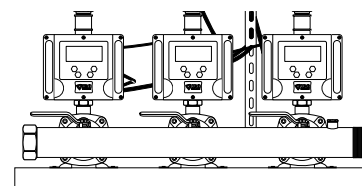
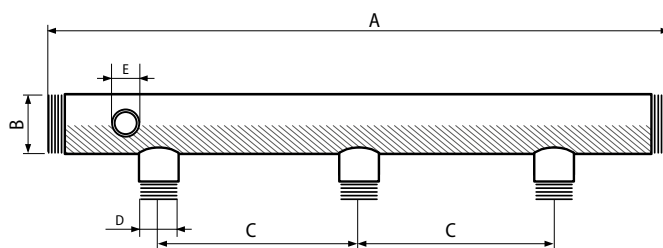


Model	A Length (mm)	B Main pipe (inches)	C Ports (inches)	E Distance between pumps (mm)	G Output (inches)	Weight (kg)
2600	500	1 1/2	1 M**	300	1/2 F**	1,8
2603	500	2	1 M**	300	1/2 F**	2,2
2601	500	2	1 1/4 M**	300	1/2 F**	2,22
2605	500	2	1 1/2 M**	300	1/2 F**	2,22
2611	700	2	1 1/2 M**	360	1/2 F**	3,1
2609	500	2 1/2	1 1/4 M**	300	1/2 F**	2,8
2613	700	2 1/2	1 1/4 M**	360	1/2 F**	3
2602	500	2 1/2	1 1/2 M**	300	1/2 F**	2,8
2612	700	2 1/2	1 1/2 M**	360	1/2 F**	3
2512	700	2 1/2	1 1/2 M**	360	1/2 F**	3,3
2604	500	3	2 M**	300	1/2 F**	3,5
2610	700	3	2 M**	360	1/2 F**	3,8
2614	700	DN100*	3 M**	360	1/2 F**	6
Manifold thickness: 3 mm						

* Flange ** M – male, F – female

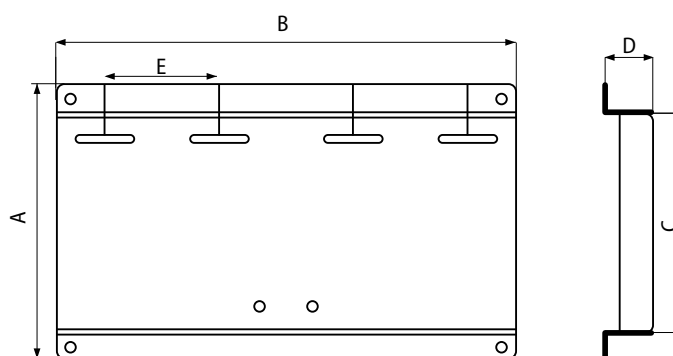
Discharge and suction manifolds cont.

**Suction manifold
for three-pump
sets**



Model	A Length (mm)	B Main pipe (inches)	C Distance between pumps (mm)	D Ports (inches)	E Output (inches)	Weight (kg)
3642	800	2	300	1 M**	½ F**	3,5
3640	800	2	300	1¼ M**	½ F**	3,7
3643	800	2½	300	1¼ M**	½ F**	4,4
3641	800	2½	300	1½ M**	½ F**	4,6
3644	800	3	300	2 M**	½ F**	5,5
3645	800	DN100*	300	3 M**	½ F**	9
Manifold thickness: 3 mm						

**Base of pump
group**



Model	Number of pumps	A (cm)	B (cm)	C (cm)
4805	1	31	26	25
4800	2	31	52	25
4802	2	35	62	29
4813	2	40	72	34
4803	3	31	80	25
4806	3	40	90	34
4804	4	31	108	25
4807	4	40	120	34

* Flange ** M – male, F – female

Useful information – flow table

Hose diameter (mm)	Nozzle diameter (mm)	Pressure at nozzle (bar)	Flow	Losses											
		atm	l/min	150 m	200 m	250 m									
50	10	2	130	3,6	4	4,4									
		3	160	5,2	5,8	6,3									
		3	215	6,3	7,3	8,1									
	12	4	240	8,2	9,4	10,5									
		4	310	10,4	11,8	14									
		5	350	12,8	15,3	17,5									
		atm	l/min	200 m	250 m	300 m									
63	14	2	200	3,5	3,8	4,1									
		3	245	4,9	5,4	5,8									
		3	310	5,6	6,5	7,2									
	16	4	360	7,8	8,4	9,4									
		4	440	9,7	10,5	12									
		5	500	11,5	12,9	14,7									
		atm	l/min	200 m	250 m	300 m	330 m	350 m							
70	16	2	230	3,7	3,8	4,1	4,2	4,3							
		3	280	5,3	5,5	5,7	5,8	5,9							
		3	365	6,4	6,8	7,1	7,3	7,4							
	18	4	420	8,3	8,8	9,2	9,4	9,6							
		4	515	10,2	10,9	11,5	11,8	12							
		5	550	12,6	13,4	13,9	14,3	14,6							
		atm	l/min	200 m	250 m	300 m	330 m	350 m	400 m						
75	16	2	230	3	3,2	3,4	3,6	3,6	3,8						
		3	280	4,3	4,5	4,8	5	5,1	5,4						
		3	360	4,7	5,1	5,5	5,9	6,1	6,5						
	18	4	415	6,1	6,6	7,1	7,6	8	8,5						
		4	515	6,9	7,8	8,5	9,1	10	10,5						
		5	550	8,5	9,5	10,5	11,3	12	12,9						
		atm	l/min	200 m	250 m	300 m	330 m	350 m	400 m	420 m					
82	18	2	290	3	3,2	3,4	3,6	3,7	3,9	4,1					
		3	350	4,2	4,5	4,8	5,1	5,3	5,6	5,9					
		3	440	4,7	5	5,4	5,9	6,3	6,7	7					
	20	4	515	6	6,4	7	7,6	8,2	8,7	9,2					
		5	680	8,2	9	10	11,1	12	13	13,8					
		6	750	9,7	10,6	11,8	13,2	14,2	15,4	16,4					
		atm	l/min	200 m	250 m	300 m	330 m	350 m	400 m	420 m	450 m				
90	22	3	550	4,5	4,8	5,2	5,3	5,5	5,8	6,1	6,3				
		4	620	5,8	6,3	6,7	6,9	7,1	7,6	7,9	8,1				
		4	750	6,3	7	7,6	7,8	8,2	8,8	9,2	9,6				
	24	5	820	8	8,6	9,3	9,6	10	10,9	11,4	11,8				
		5	950	8,7	9,7	10,7	11,1	11,7	12,8	13,5	14,1				
		6	1050	10,3	11,5	12,7	13,1	13,9	15,2	16	16,7				
		atm	l/min	200 m	250 m	300 m	330 m	350 m	400 m	420 m	450 m	500 m			
100	26	3	750	4,7	5	5,3	5,6	5,7	6,1	6,3	6,5	6,9			
		4	850	6,1	6,4	6,9	7,2	7	7,9	8,1	8,5	9			
		4	1000	6,7	7,1	7,7	8,1	8,3	9	9,6	9,8	10,5			
	28	5	1120	8,2	8,7	9,4	9,9	10,2	11,1	11,8	12	12,9			
		5	1250	9	9,7	10,6	11,2	11,6	12,8	14,1	14	15,2			
		6	1400	10,7	11,5	12,6	13,4	13,8	15,2	16,7	16,6	18,1			
		atm	l/min	200 m	250 m	300 m	330 m	350 m	400 m	420 m	450 m	500 m	550 m	600 m	
110	28	3	850	4,5	4,7	4,9	5	5,3	5,6	5,8	6	6,5	7	7,4	
		4	990	5,8	6,1	6,4	6,6	6,8	7,2	7,5	7,8	8,4	9,1	9,6	
		4	1180	6,1	6,5	7	7,2	7,5	8,1	8,5	8,9	9,6	10,5	11,2	
	30	5	1250	7,5	7,9	8,6	8,9	9,2	9,9	10,4	10,9	11,8	12,9	13,8	
		6	1600	9,6	10,2	11,1	11,5	12,2	13,2	13,9	14,7	16,2	17,8	19,1	
		7	1710	11,1	11,8	12,9	13,1	13,3	15,3	16	17	18,7	20,6	22,1	
125	32	4	1290	5,7	5,9	6,2	6,4	6,6	6,9	7,1	7,3	7,9	8,3	8,9	
		5	1450	7	7,3	7,7	7,8	8	8,5	8,8	9	9,6	10,3	10,9	
		6	1750	8,7	9,2	9,8	10	10,3	11	11,4	11,8	12,7	13,7	14,7	
	34	7	1920	10,1	10,6	11,3	11,6	12	12,8	13,2	13,6	14,7	15,8	17	
		7	2155	10,7	11,5	12,2	12,6	13	14	14,5	15,1	16,5	17,8	19,3	
		8	2315	12,1	12,9	13,8	14,2	14,8	15,9	16,5	17,1	18,7	20,2	22	
140	34	5	1650	6,5	6,7	6,9	7,1	7,3	7,6	7,9	8,2	8,4	8,7	9,1	
		6	1820	7,7	7,9	8,2	8,4	8,6	9	9,4	9,6	9,9	10,3	10,8	
		6	2050	8,1	8,3	8,7	8,9	9,1	9,6	10	10,3	10,7	11,2	11,8	
	36	7	2150	9,3	9,6	10	1,2	10,5	11,1	11,5	11,9	12,4	13	13,7	
		7	2400	9,7	10,2	10,6	10,9	11,2	11,9	12,4	12,9	13,5	14,2	5,1	
		8	2600	10,8	11,2	12	12,3	12,7	13,5	14,1	14,7	15,4	16,2	17,2	
160	34	5	1650			6,4	6,5	6,6	6,7	6,8	6,9	7,1	7,2	7	
		6	1820			7,5	7,7	7,8	8	8,1	8,2	8,4	8,6	8,9	
		6	2000			7,8	7,9	8,1	8,3	8,4	8,6	9,1	9,3	9,6	
	36	7	2150			8,9	9,1	9,3	9,6	9,8	9,9	10,2	10,5	10,9	
		7	2450			9,3	9,5	9,8	10,1	10,3	10,5	11,1	11,4	11,9	
		8	2700			10,7	11	11,2	11,5	11,7	11,9	12,6	13	13,5	
	40	8	2800			10,2	10,8	11,2	12	12,8	13,2	14	15	16,2	

Useful information – pressure losses

The table shows the pressure and flow losses, assuming resistance from a rigid, horizontal pipeline made of metal. Pressure loss/displacement resistance using galvanized steel pipeline | Pressure loss on a horizontal section of 100 m length | Pressure loss using another pipeline (ratio) | Cast iron pipeline × 1,4 | Stainless steel pipeline × 0,8 | Aluminium pipeline × 0,7 | PE/PVC pipeline × 0,65.

Water flow		Nominal diameter																		Loss per 100 m
m³/h	l/min	mm	15	20	25	32	40	50	65	80	100	125	150	175	200	250	300	350	400	
		inches	½	¾	1	1¼	1½	2	2½	3	4	5	6	7	8	10	12	14	16	
0,6	10		17	4	1,5	0,5	0,2													
0,9	15		34,8	8,4	2,9	0,9	0,3													
1,2	20		58,6	14,5	4,9	1,6	0,5	0,2												
1,5	25		89	22	7,5	2,4	0,8	0,3												
1,8	30		125	31	11	3,3	1,2	0,4												
2,1	35		166,1	40	14,3	4,3	1,5	0,5												
2,4	40			52	18,1	5,3	1,9	0,7	0,2											
3	50			78,5	27	8	2,8	0,9	0,3											
3,6	60			110,2	37,2	11,9	3,9	1,4	0,4											
4,2	70			145,8	50	15,1	5,1	1,8	0,5											
4,8	80			188,3	64,1	19,5	6,5	2,3	0,6											
5,4	90				78,2	24,1	8	2,8	0,8	0,3										
6	100				95,4	29	9,9	3,4	0,9	0,4										
7,5	125				144	44,1	15	5	1,5	0,5										
9	150					60,5	20,8	7	2	0,7	0,3									
10,5	175					81	27,5	9,5	2,7	1	0,4									
12	200					105	35	12,1	3,4	1,3	0,5									
15	250					155,5	52,8	18	5	1,9	0,6	0,20								
18	300						73,9	25,2	7	2,6	0,9	0,3								
24	400						125	42,1	11,9	4,5	1,5	0,5	0,2							
30	500						189	63,9	18,3	6,5	2,3	0,8	0,3							
36	600							89,5	25	9,5	3,3	1,2	0,5	0,2						
42	700							119,5	33,5	12	4,3	1,4	0,6	0,3						
48	800							153,2	42,5	15,5	5,3	1,8	0,8	0,4						
54	900							189,3	54	19,5	6,5	2,3	0,9	0,5						
60	1000								64	24	7,9	2,8	1,1	0,6	0,3					
75	1250								97	35,6	12	4	1,7	0,8	0,4					
90	1500								135	50	16,9	5,7	2,4	1,1	0,6					
105	1750								180	65	22,4	7,5	3,2	1,5	0,8					
120	2000									85	29	9,8	4	1,9	1	0,4				
150	2500									128	43	14,9	6	2,9	1,5	0,5				
180	3000										60	20,5	8,5	4	2,2	0,7	0,3			
210	3500										80	27,5	11,5	5,3	2,9	1	0,4			
240	4000										103	35,5	14,5	6,9	3,5	1,3	0,5			
300	5000											52,5	22	10,5	5,4	1,9	0,8			
360	6000											74	30	14,5	7,5	2,6	1,1			
420	7000												40	19	10	3,4	1,4	0,7		
480	8000												52	24	13	4,4	1,8	0,9		
540	9000												65	30,5	14	5,4	2,2	1,1	0,6	
600	10000													37	19	6,5	2,7	1,3	0,7	

Element	Nominal diameter													
	mm	25	32	40	50	65	80	100	125	150	175	200	250	300
	inches	1	1¼	1½	2	2½	3	4	5	6	7	8	10	12
Valve	–	–	–	0,3	0,3	0,3	0,6	0,6	0,9	1,2	–	1,5	1,8	–
Check valve	–	1,5	2,1	2,7	3,3	4,2	4,8	6,6	8,3	10,4	–	13,5	16,5	19,5
45° elbow	–	0,3	0,3	0,6	0,6	0,9	0,9	1,2	1,5	2,1	–	2,7	3,3	3,9
90° elbow	–	0,6	0,9	1,2	1,5	1,8	2,1	3	3,6	4,2	–	5,4	3,6	8,1

Spare parts

You will find a complete spare parts catalogue for all iQ PR products on the dambat.pl website under: download; spare parts. If you have problems finding the exact part you are looking for, please contact DAMBAT service.



The product parameters contained herein have been obtained under laboratory conditions; a difference of +/-10% is possible under operating conditions. The weight and dimensions of the products may vary depending on the manufacturing batch.

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