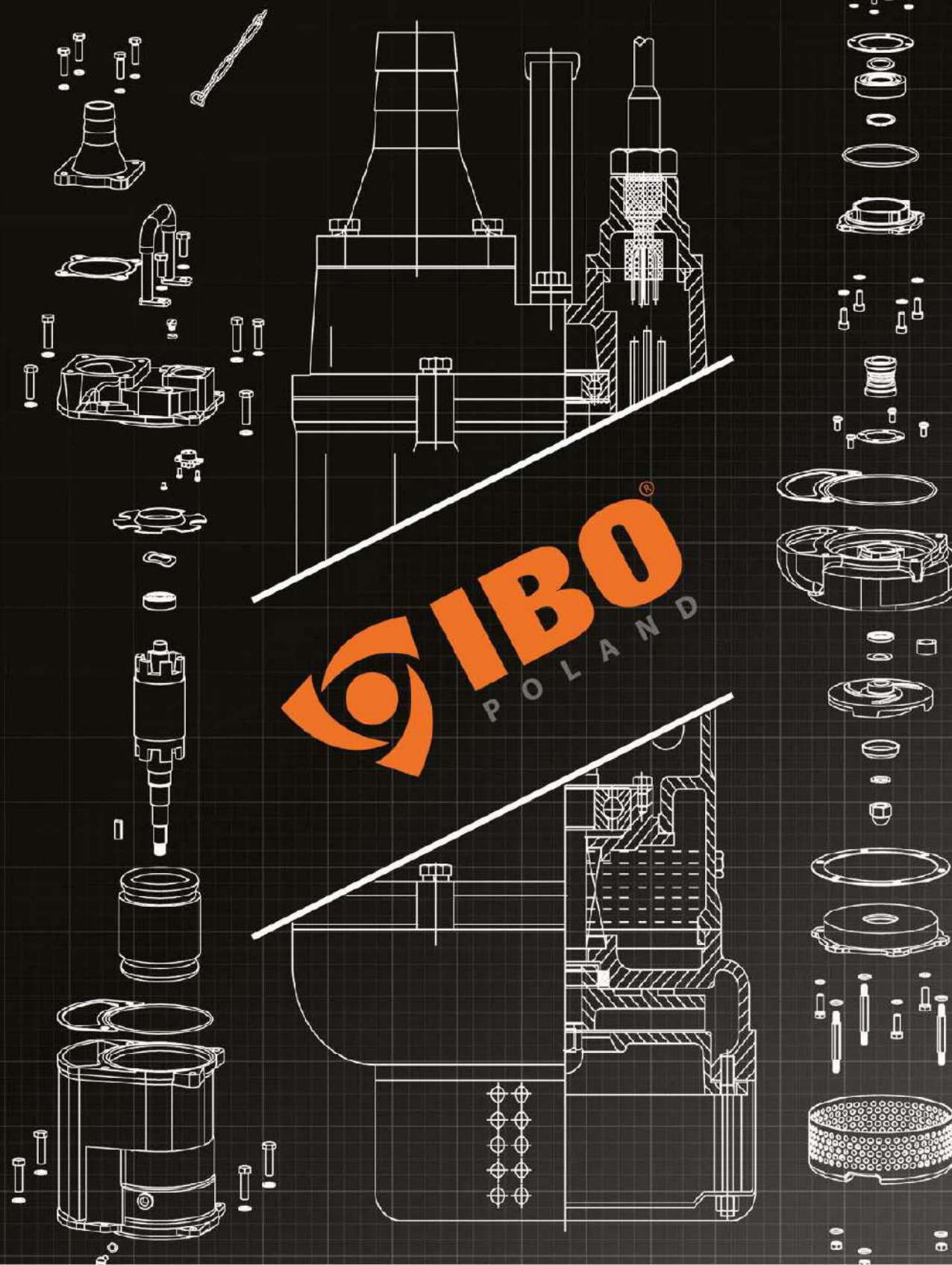
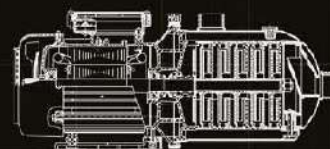


PRODUCT CATALOGUE

PUMPS, MOTORS, BOOSTER SETS, INVERTERS, CONTROLLERS



e-mail: sales@h2o-air.com <https://shop.h2o-air.com/>

DAMBAT IS A DYNAMICALLY DEVELOPING POLISH MANUFACTURER OF WATER PUMPS AND FITTINGS SOLD UNDER IBO BRAND.

The company started its activities in 1999 and from the very beginning it based its development on understanding clients' needs providing them with high quality products. With experience and knowledge of qualified personnel and regular product development, Dambat became a significant manufacturer of water pumps in the European market.

In order to continue constant development, we cooperate with world-renowned manufacturers of water devices and equipment, while making our offer more attractive. In 2015 and 2016 we commenced cooperation with Italian factories, which resulted in introduction of a new IBO Italy brand into the market.

In cooperation with our Italian partners, we sell top quality tanks, pumps and deep well motors under this brand. Benefiting from the latest technology and high-quality materials, IBO and IBO ITALY products ensure long-lasting, safe and faultless operation. The range of products with such features and individual approach enabled us to acquire distributors of our devices in the majority of European countries and beyond.

With the experience gained over the years in line with knowledge and understanding of the importance of reliability, Dambat delivers top quality products to all customers who decide to choose our offer.



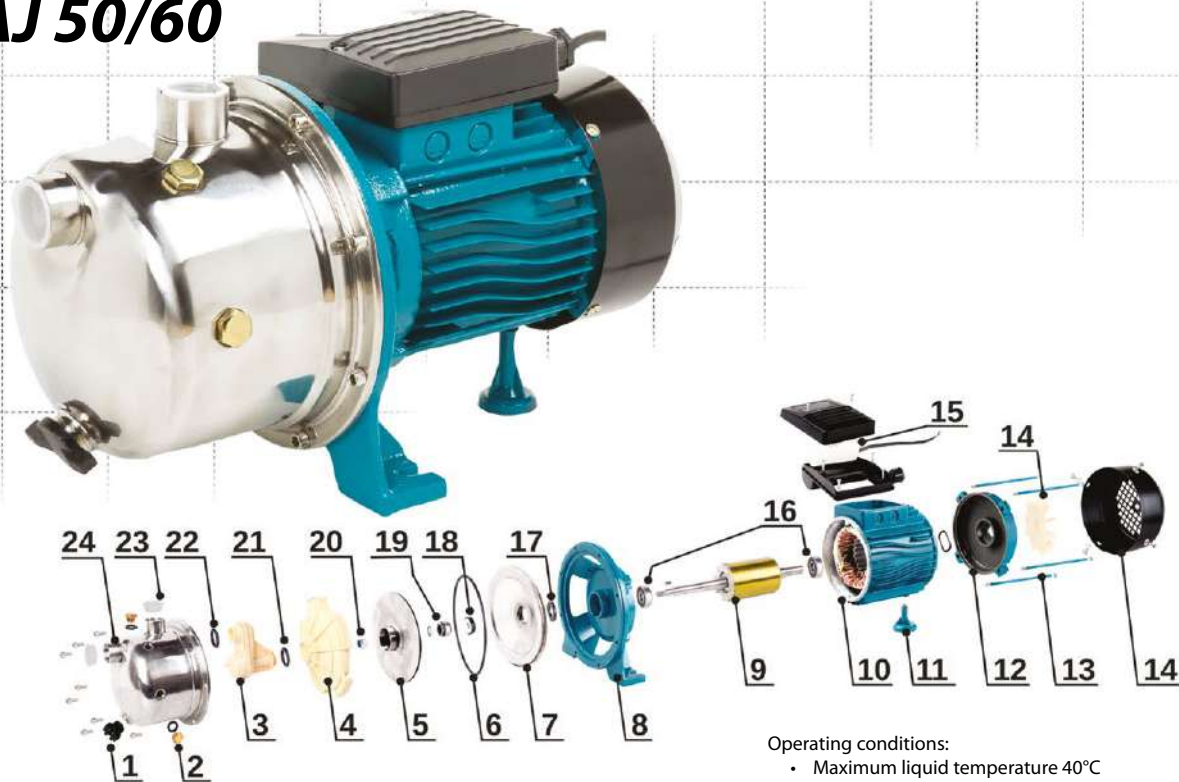
PRODUCT CATALOGUE

IBO BRAND PRODUCER & OWNER:

Глобал Гарант ООД
гр. Пловдив
ул. Хан Аспарух №122
тел. : 0888 80 95 88
e-mail: sales@h2o-air.com
<https://shop.h2o-air.com/>



AJ 50/60



Single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity, designed for pumping of clean cold water from own intakes and for increasing pressure. Sections of pump body and shaft that come in contact with water are made of stainless steel (INOX design). The pump has a power cable with a plug. The pump motor is provided with thermal protection.

APPLICATION:

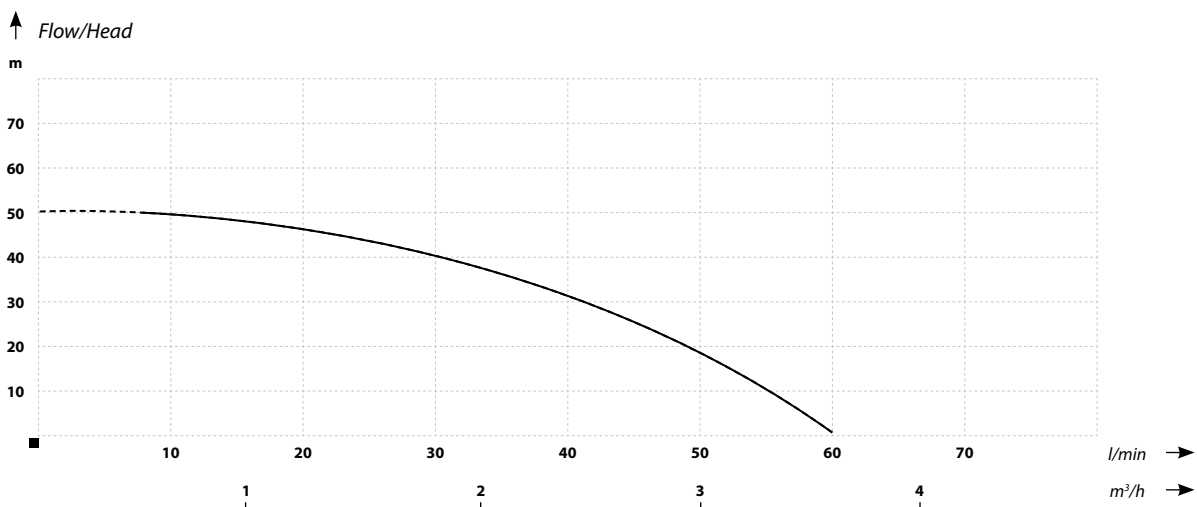
Supply of water to houses, holiday houses, allotments and gardens. When combined with pressure tanks, the pumps can be used in single- and multi-family residential housing, in industrial applications and for irrigation purposes.

Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP44

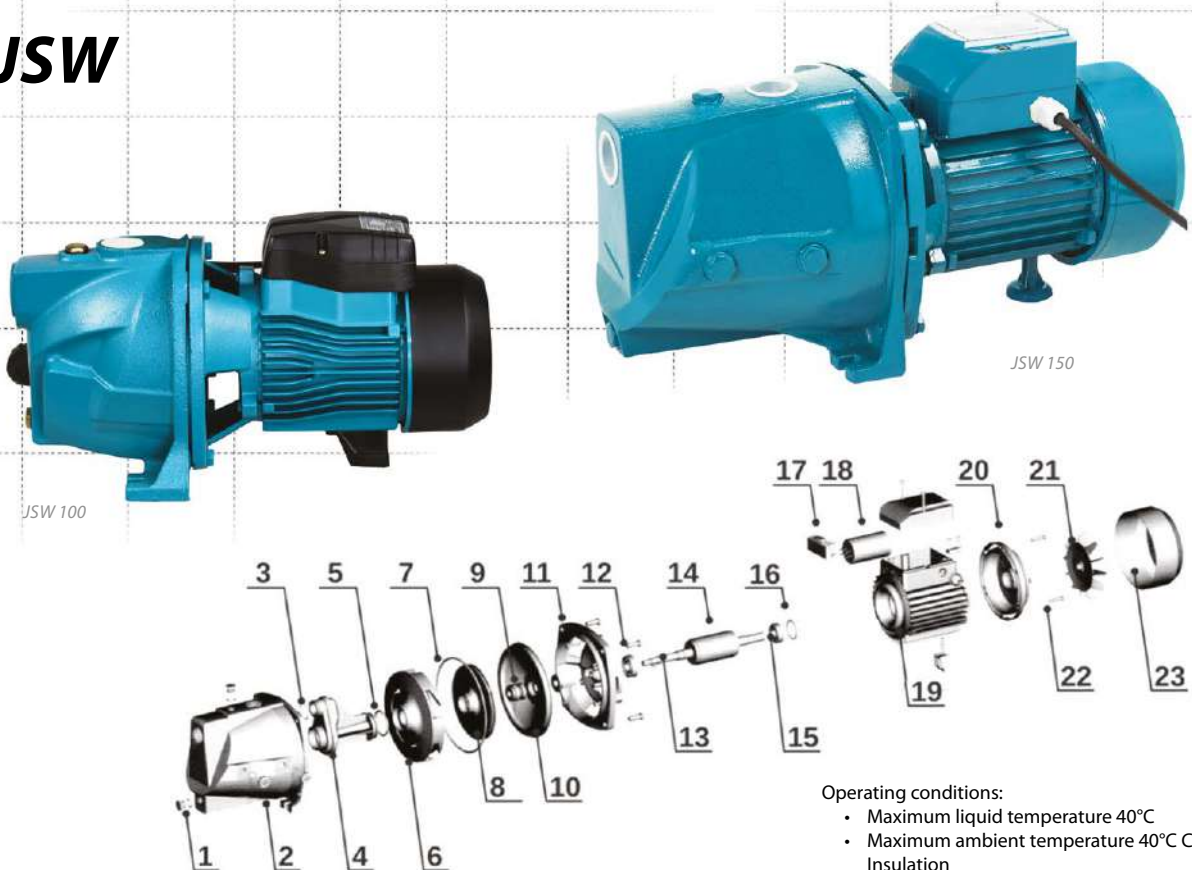
Materials:

- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl (stainless steel AISI 304)
- Frame: cast iron
- Pump end plate: stainless steel AISI 304
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



PARAMETERS									
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
AJ 50/60	50	60	1100	230	8	3,2	1 x 1	37/21/20	10,5

JSW



Single-stage self-priming centrifugal pumps equipped with the Venturi tube system for increased suction capacity, designed for pumping of clean cold water from own intakes and for increasing pressure. The JSW pumps are very efficient and additionally provide exceptionally good water suction capacity. JSW 200 pumps have a brass impeller. All JSW pumps are equipped with thermal protection mounted in the motor winding.

APPLICATION:

Supply of water to houses and agricultural holdings, as well as for irrigation of gardens. When combined with pressure tanks, the pumps can be used for single- and multi-family residential housing, in industrial applications and for irrigation purposes.

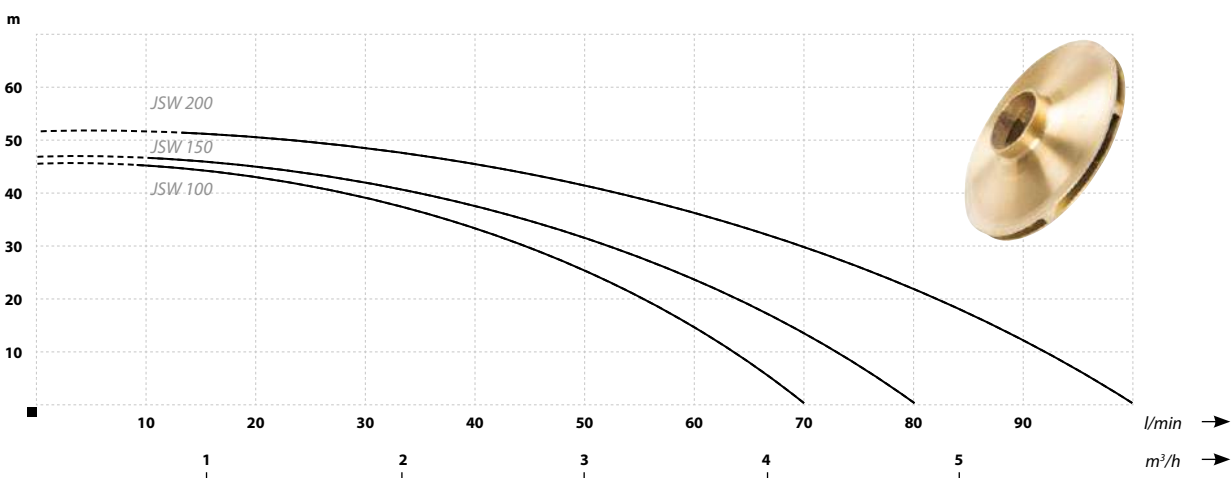
Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C Class B Insulation
- Operating mode - continuous
- Protection - IP44

Materials:

- Housing: cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl / brass
- Pump end plate / Frame: stainless steel AISI 304 / aluminium
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP

↑ Flow/Head



PARAMETERS									
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
JSW 100	45	70	1100	230	8	3,2	1x1	39/21/19	11
JSW 150	46	80	1500	230	8	5,6	1x1	41/21/19	11,5
JSW 200	53	100	1800	230	8	8,2	1x1¼	52/25/22	17

IWH2-03



The pump for pumping of clean cold water from own intakes and for increasing pressure. IWH2-03 is a single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity. Sections of pump body and shaft that come in contact with water are made of stainless steel (INOX). The pump is manufactured to the highest quality standards in terms of the design and materials used. The pump has a power cable with a plug, and the pump motor is provided with thermal protection.

Application:

Supply of water to houses, gardens, industrial washing facilities, air conditioning and cooling systems.

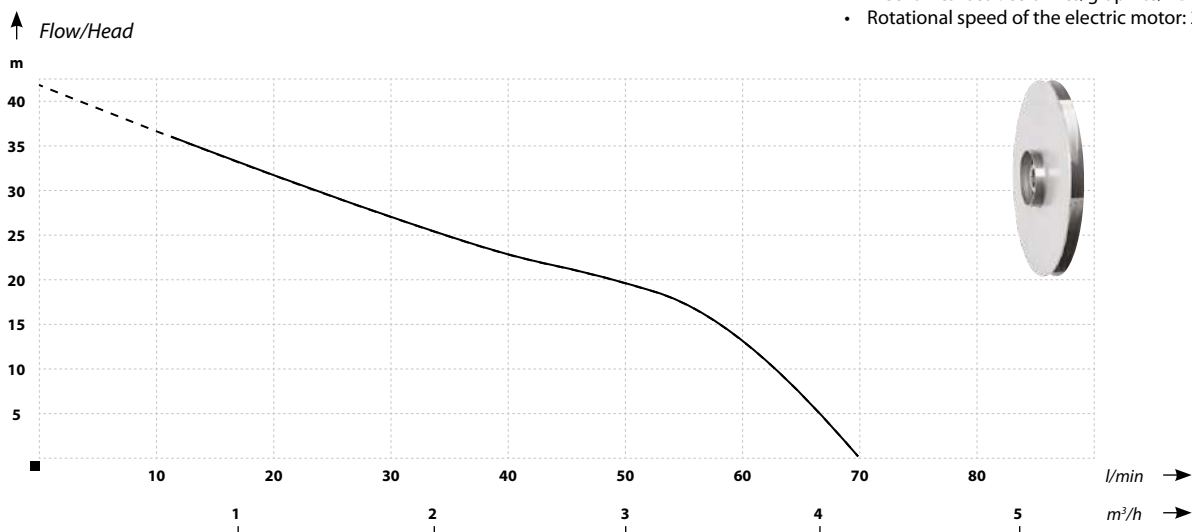
When combined with pressure tanks, the pumps can be used for single- and multi-family residential housing and in industrial applications.

Operating conditions:

- Maximum liquid temperature 50°C
- Maximum ambient temperature 50°C
- Class F Insulation
- Operating mode - continuous
- Protection - IP55

Materials:

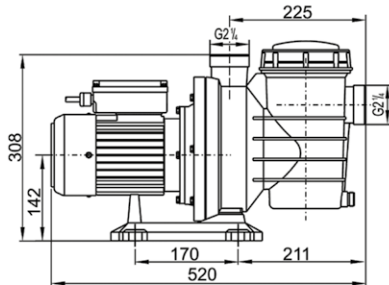
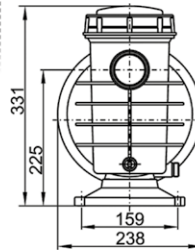
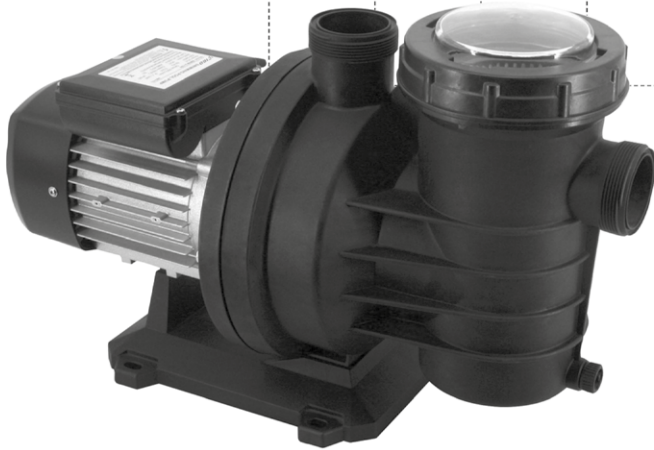
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 316
- Pump end plate: stainless steel AISI 304
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
IWH2-03	43	70	750	230	8	5,2	1x1	37/20/19	10

SWIM



Self-priming swimming pool pump with pre-filter.

Designed for maximum efficiency of filtration and circulation of water with chlorine content. It can operate with sea water. The pump is made of plastic materials, with a catcher for leaves and larger impurities, including fibrous ones. Available with Ø 50 mm or Ø 48.5 mm inlets/outlets.

Motor

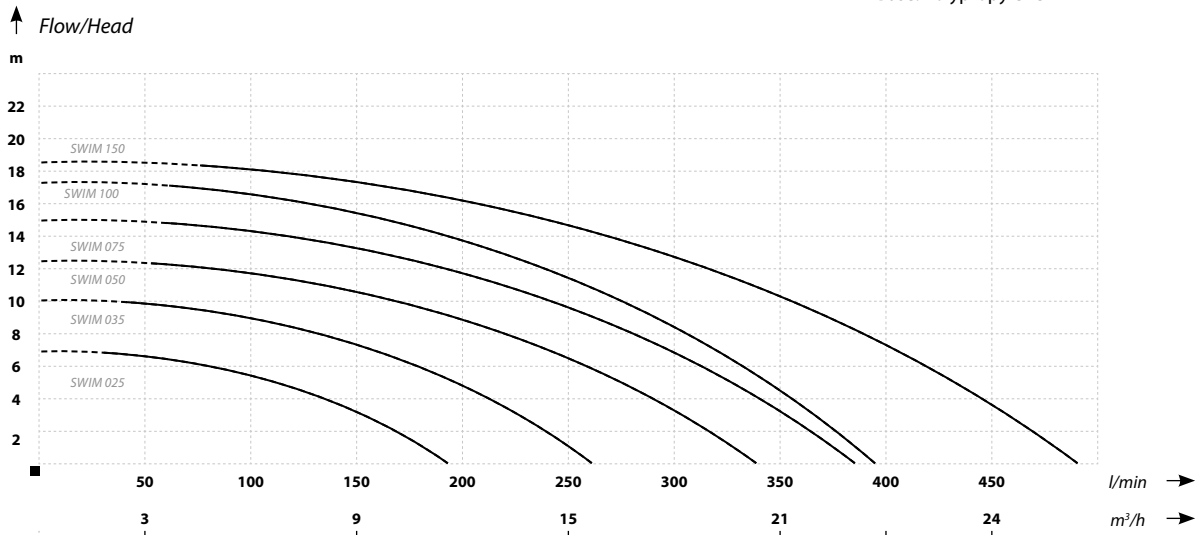
- Asynchronous squirrel-cage with external ventilation
- Supply voltage 220-240 V/ 50 Hz.
- IP55 Ingress Protection
- Insulation Class F
- Single-phase motor with built-in capacitor and thermal protection
- Self-lubricating ball bearings
- Rotational speed 2850 rpm
- Designed for continuous operation

Operating conditions:

- Water temperature: 5-50°C
- Ambient temperature: max. 50°C
- Max. working pressure: 0.3 MPa

Materials:

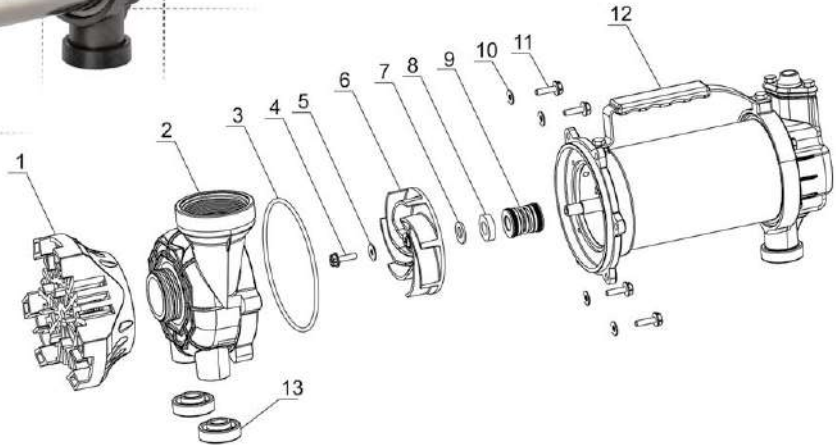
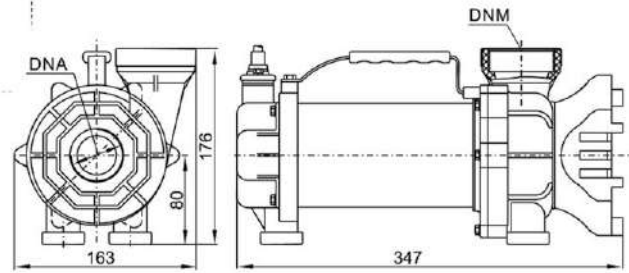
- Pump housing: ABS
- Pre-filter: ABS
- Inlet/outlet: ABS/PVC
- Access plate: Polyethylene HD
- Impeller: Glass fibre reinforced LEXAN (resistant to abrasion by sand)
- Venturi tube: Glass fibre reinforced LEXAN (resistant to abrasion by sand)
- Mechanical seal: SIC/C
- Shaft: Stainless steel SUS 316
- Base: Polypropylene



PARAMETERS

Name	Flow (l/min)	Head (m)	Motor power		Amperage (A)	Weight (kg)
			(kW)	(HP)		
SWIM 025	195	7	0,37	0,50	1,9	9,3
SWIM 035	255	10	0,50	0,75	2,7	9,5
SWIM 050	340	12,5	0,75	1,0	3,8	9,7
SWIM 075	370	15	0,9	1,2	4,6	10,5
SWIM 100	390	17,5	1,1	1,5	5,8	10,9
SWIM 150	470	18,5	1,5	2,0	7,0	11,5

FON



Submersible fountain pumps.

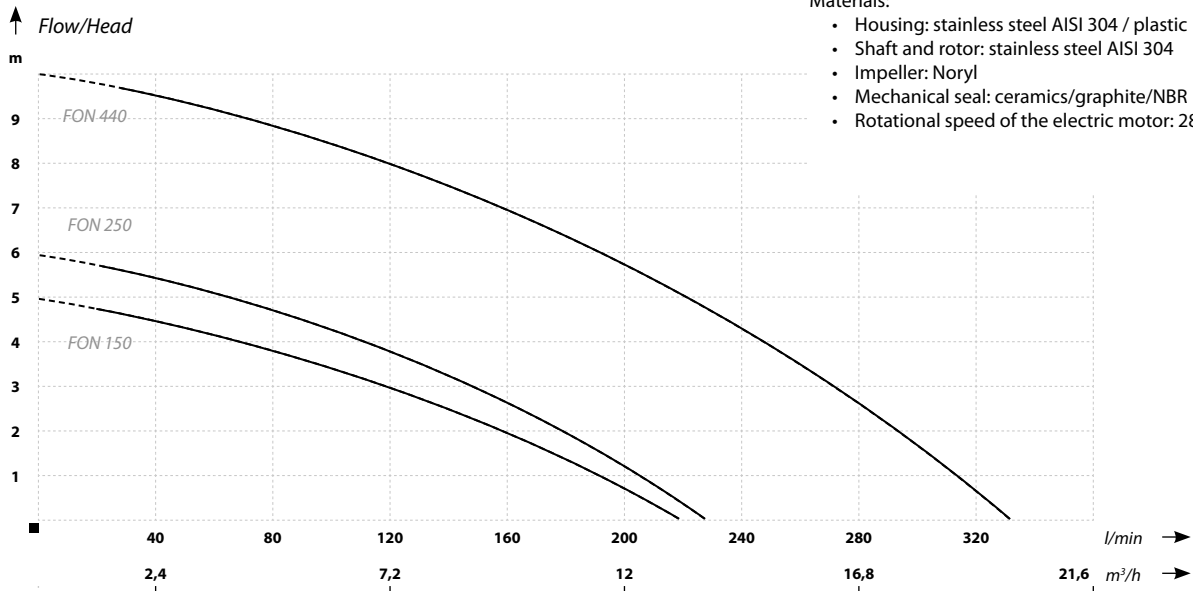
The pumps are used to supply water to fountains, waterfalls, streams, ponds, decorative parts and features that using the effect of flowing water, as well as in food processing plants and agricultural production for draining ponds and fields. The pumps have a high efficiency motor and built-in thermal protection.

Operating conditions:

- Maximum liquid temperature 40°C
- Liquid type: water with small amount of sand
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Immersion depth - ≤5m

Materials:

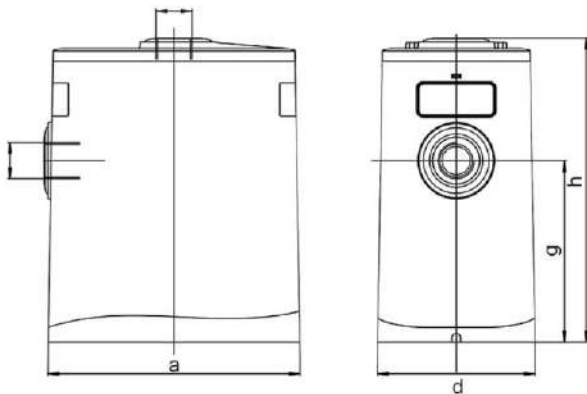
- Housing: stainless steel AISI 304 / plastic
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Max. diameter of impurities (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
FON 150	5	220	150	230	20	1,6	1½ x 1	35/18/22	7
FON 250	6	230	250	230	20	2,4	1½ x 1	35/18/22	7,5
FON 400	10	330	400	230	20	3,5	1½ x 1	35/18/22	8

HOME 1

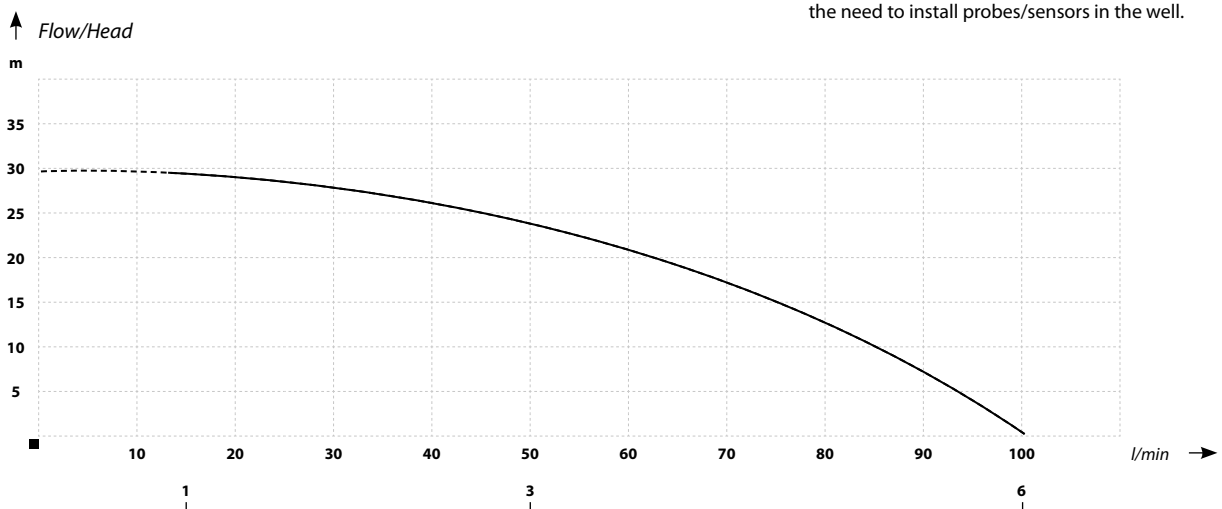


The HOME 1 series pumps are equipped with a high performance frequency converter. Pumps equipped with frequency converters create seamless system to keep water supply system pressure constant regardless of the water demand. The frequency converter integrated into the pump will allow to reduce electricity consumption. Compared to the traditional water supply method, the constant pressure water supply system with frequency converter saves up to 60% of energy. The pump motor speed is adjusted to the various operating conditions of the water supply system.

A pump with an inverter is an easy-to-use control and protection device that maintains a constant, set water pressure by changing the rotational speed of the pump motor.

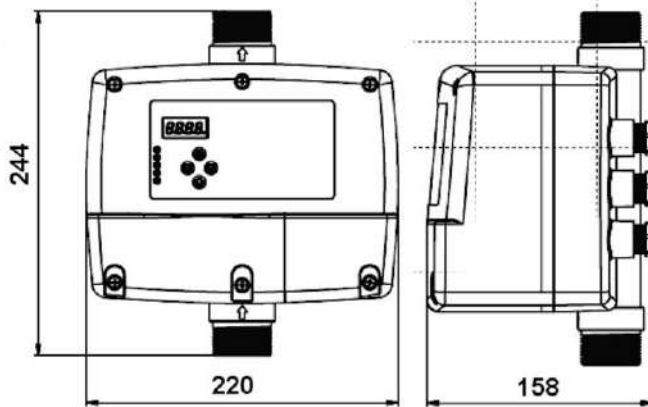
ADVANTAGES:

1. Low-noise operation: can be installed in the house.
2. Simple operation: easy to use, all functions can be terminated by pressing a button.
3. Long-term reliability of the co-operating pumps: the average torque and shaft wear are reduced due to decreasing the average rotational speed, which increases the pump operational lifetime. Due to the built-in soft start and stop function, the device allows to eliminate the water hammer.
4. Fully protected: the system incorporates the most versatile overcurrent, overvoltage, undervoltage, short-circuit, impeller blocking and dry-running protection technology without the need to install probes/sensors in the well.



PARAMETERS												
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m.)	Rotational speed range (rpm)	Inlet/outlet (inch)	Dimensions (mm)				Weight (kg)
								a	d	h	h	
HOME 1	30(25)	100	750	230	8	0-3000	1 x 1	230	144	166	278	7

INVERTER SYSTEM - IVR-02



IVR-02M Intelligent Pump Controller is an easy-to-use control and protection device for direct connection of 0.75 KW to 1.5 KW (from 1 HP to 2 HP) single-phase submersible pumps, surface pumps, deep well pumps, etc., maintaining a constant, set water pressure by changing the rotational speed of the pump motor.

The IVR-02M model provides many operating modes by adapting to various electrical systems.

SYSTEM ADVANTAGES

Energy efficiency: Compared to the traditional water supply method, the constant pressure water supply system with frequency converter saves up to 30%-60% of energy.

Fully protected: the system incorporates the most versatile overcurrent, overvoltage, undervoltage, short-circuit, impeller blocking and dry-running protection technology without the need to install probes/sensors in the well.

Simple operation: easy to use, all functions can be terminated by pressing a button, without the need to hire programming specialists.

Long-term reliability of the co-operating pumps: the average torque and shaft wear are reduced due to decreasing the average rotational speed, which increases the pump operational lifetime. Due to the built-in soft start and stop function, the device allows to eliminate the water hammer (the water hammer is a sudden pressure increase that occurs at rapid stopping or starting of liquid flow.) The ability to control the operation of two pumps supplying the system.

APPLICATION:

IVR-02M can be used in all applications where maintaining a constant water pressure in the system and control and protection of a pump or a set of two pumps is required.

IVR-02M controls automatic switching on and off, and adapts the motor speed to the requirements of the water supply system.

Typical application:

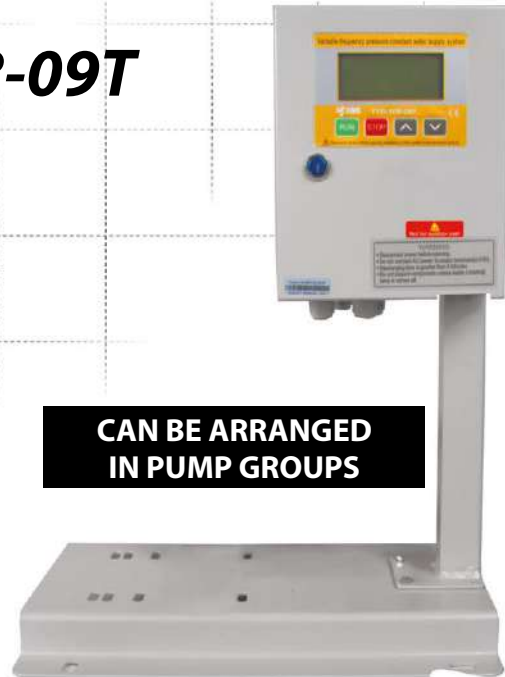
- houses
- apartments
- holiday houses
- agricultural holdings
- supply of water from the well
- irrigation of growing houses, gardens, agricultural land
- collecting and using rainwater

Installation data	
Permissible ambient temperature	-10°C – +40°C
Permissible ambient humidity	20% – 90% RH
Permissible liquid temperature	0°C – +50°C
Ingress Protection	IP55
Mounting orientation	Vertical
Unit dimensions (L/W/H)	244/220/158 mm
Inlet/outlet	G 1 ¼" / G 1 ¼"
Minimum capacity of pressure tank	2L

INVERTER SYSTEM - IVR-02

Main Technical Data	
<i>Rated output power</i>	0,37 KW – 1,5 KW (0,5 HP – 2 HP)
<i>Rated input voltage</i>	AC160-250V/50-60HZ (single-phase)
<i>Pump max. amp rating</i>	12A
<i>Rated output voltage</i>	AC 230V / 20-60 Hz (single-phase)
<i>Additional pump rated output voltage</i>	AC 230V / 50 Hz (single-phase)
<i>Response time under overload condition</i>	5 s – 5 min.
<i>Pressure setting range</i>	1 – 9 bar
<i>Response time under open phase condition</i>	<5 s
<i>Response time under short-circuit condition</i>	<0,1 s
<i>Response time under overvoltage/undervoltage condition</i>	<5 s.
<i>Response time under dry-run condition</i>	6 s
<i>Time to activation after overload condition</i>	30 min.
<i>Time to activation after overvoltage/undervoltage condition</i>	5 min.
<i>Time to self-activation after dry-run condition</i>	8s, 1 min, 10 min, 30 min, 1 h, 2 h ...
<i>Deactivation limit at overvoltage</i>	270V
<i>Deactivation limit at undervoltage</i>	100V
<i>Horizontal distance</i>	≤1000 m
<i>Protections</i>	Dry-run Short-circuit Overload Pump overloaded Voltage spike Undervoltage Overvoltage
Main Technical Specification	
<i>Control specification</i>	double flow control
	pressure control
<i>Control method</i>	Manual / Automatic
<i>Liquid flow control specification</i>	probe electrode pulse and flow switch
<i>Pressure control specification</i>	Pressure sensor 24 V, 4–20 mA

INVERTER SYSTEM – IVR-09T



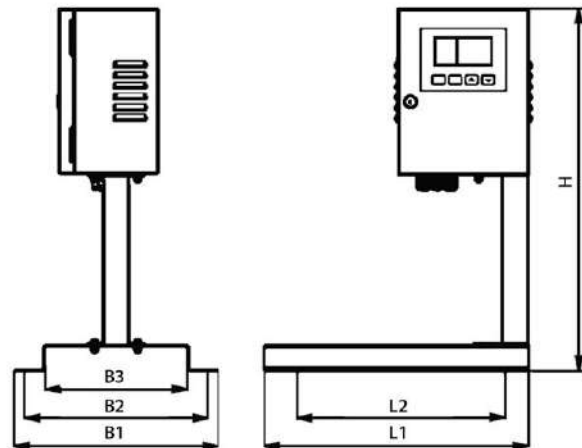
**CAN BE ARRANGED
IN PUMP GROUPS**

IVR-09T Intelligent Pump Controller is an easy-to-use control and protection device for direct connection of 0.75 KW to 7.5 KW (from 1 HP to 10 HP) 3-phase deep well pumps, surface pumps, submersible pumps, etc., maintaining a constant, set water pressure by changing the rotational speed of the pump motor. The IVR-09T model provides many operating modes by adapting to various electrical systems. The IVR-09 series controllers can be used in pump groups of up to 6 pumps. Its important feature that distinguishes it from popular on/off control devices is:

1. Energy efficiency. Compared to the traditional water supply method, the constant pressure water supply system with frequency converter saves up to 30%-60% of energy.
2. Simple operation: easy to use, all functions can be terminated by pressing a button, without the need to hire programming specialists.
3. Long-term reliability of the co-operating pumps: the average torque and shaft wear are reduced due to decreasing the average rotational speed, which increases the pump operational lifetime. Due to the built-in soft start and stop function, the device allows to eliminate the water hammer. (the water hammer is a sudden pressure increase that occurs at rapid stopping or starting of liquid flow.)
4. Fully protected: the system incorporates the most versatile overcurrent, overvoltage, undervoltage, short-circuit, impeller blocking and dry-running protection technology without the need to install probes/sensors in the well.
5. The controllers can be combined into pump groups of up to 6 pumps. The group is controlled by one main controller selected by the user while other controllers adjust the operation to the system requirements. The set is very easily programmable and does not require the assistance of the programmer.

APPLICATION:
IVR-09t can be used in all applications where maintaining a constant water pressure in the system and control and protection of a pump or a set of two pumps is required.
Typical application:

- houses / apartments / holiday houses
- agricultural holdings
- supply of water from the well
- irrigation of growing houses, gardens, agricultural land
- collecting and using rainwater
- industrial equipment



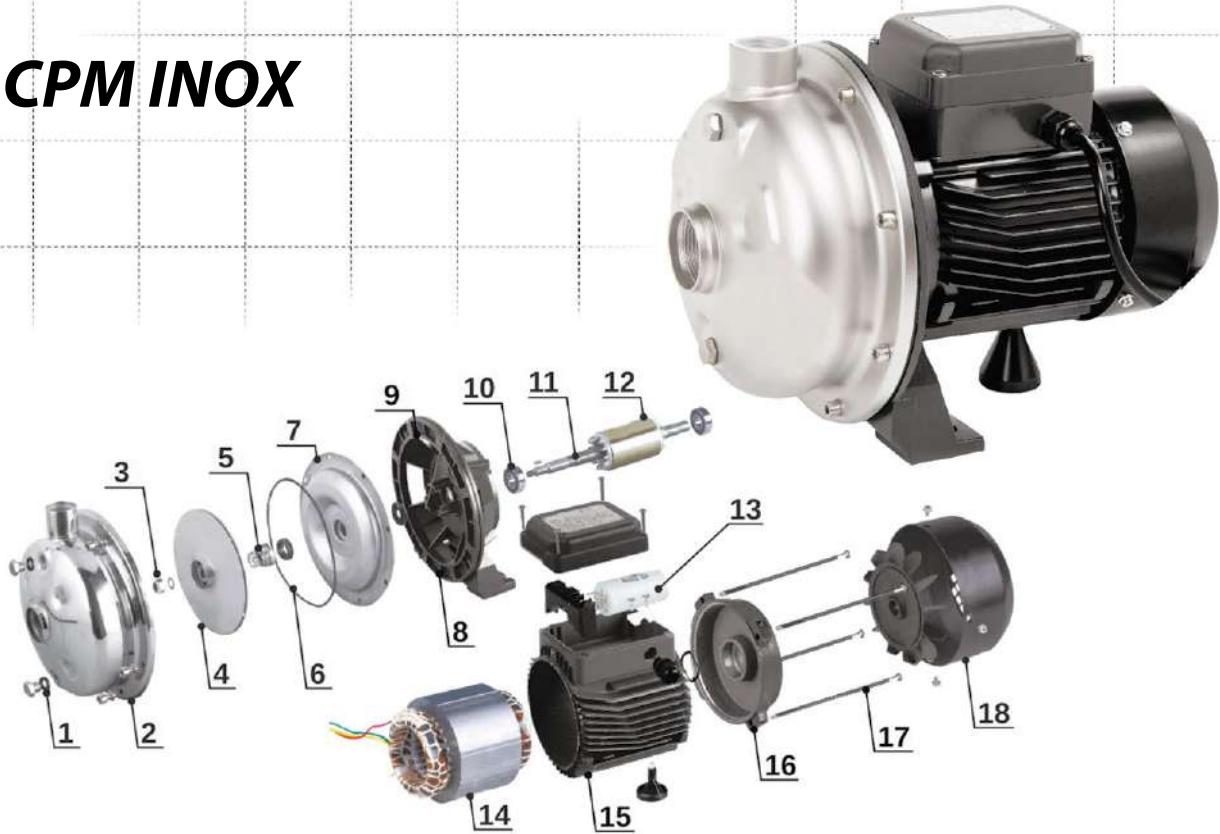
Motor power	Dimensions (mm)					
	B1	B2	B3	L1	L2	H
1.1 kW and less	306	276	214	400	314	546
1.5 kW to 2,2 kW	306	276	214	430	314	576
4 kW to 7.5 kW	360	320	270	520	350	710

INVERTER SYSTEM – IVR-09T

Main Technical Data	
Rated output power	0,37 KW – 7,5 KW (0,5 HP – 10 HP)
Rated input voltage	AC~3x400V/50-60HZ (3-phase)
Rated output voltage	AC ~3x400V / 20-60 Hz (3-phase)
Response time under overload condition	5 s – 5 min.
Pressure setting range	1 – 9 bar
Response time under open phase condition	<5 s
Response time under short-circuit condition	<0,1 s
Response time under overvoltage/undervoltage condition	<5 s.
Response time under dry-run condition	6 s
Time to activation after overload condition	30 min.
Time to activation after overvoltage/undervoltage condition	5 min.
Time to self-activation after dry-run condition	8s, 1 min, 10 min, 30 min, 1 h, 2 h ...
Deactivation limit at overvoltage	418V
Deactivation limit at undervoltage	324V
Horizontal distance	≤1000 m
Protections	Dry-run Short-circuit Overload Pump overloaded Voltage spike Undervoltage Overvoltage

Main Technical Specification	
Control specification	double flow control
Control specification	pressure control
Control method	Manual / Automatic
Liquid flow control specification	probe electrode pulse and flow switch
Pressure control specification	Pressure sensor 24 V, 4–20 mA
Installation Conditions	
Permissible ambient temperature	–10°C – +40°C
Permissible ambient humidity	20% – 90% RH
Permissible liquid temperature	0°C – +100°C
Ingress Protection	IP54
Mounting orientation	Vertical
Minimum pressure tank capacity	4L
Motor power	Max. Motor Current
0,75-1.5 kW / 1-2 HP	4.3A
2.2 kW / 3 HP	6.1A
3.0-4.0 kW / 4-5,5 HP	9.7A
5.5 kW / 7.5 HP	14A
7.5 kW / 10 HP	18A

CPM INOX



Single-stage non-self-priming centrifugal pumps designed for pumping non-aggressive liquids with non-abrasive and non-absorbent solids content of 0.27 kg/m³. The maximum temperature of the pumped liquid is up to 60°C. The pump motor is provided with thermal protection mounted in the motor winding. Hydraulic parts that come in contact with water are made entirely of stainless steel.

APPLICATION:

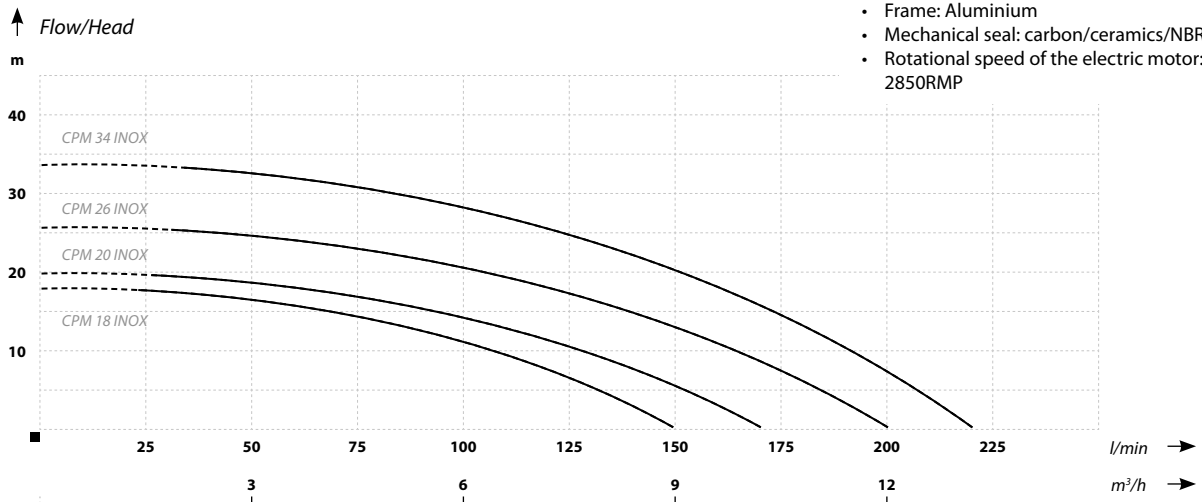
Agriculture: irrigation, drainage, water supply, pumping liquid fertilizers (not corrosive to AISI 304 steel). Industrial applications: supply of water, pumping liquids that are not corrosive to AISI 304 steel and non-explosive liquids, just washing. Air conditioning: heating, cooling. Household applications: supply of water, increasing pressure. The pumps is designed for continuous operation.

Operating conditions

- Maximum liquid temperature 60°C
- Maximum ambient temperature 50°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP44

Materials:

- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Pump end plate: stainless steel AISI 304
- Frame: Aluminium
- Mechanical seal: carbon/ceramics/NBR
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m.)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
CPM 18 INOX	18	150	550	230	7	2,5	1 x 1¼	31/23/21	9,1
CPM 20 INOX	20	170	800	230	7	3,8	1 x 1¼	31/23/21	9,8
CPM 26 INOX	26	200	1100	230	7	5,2	1 x 1¼	31/23/21	10,9
CPM 34 INOX	34	220	1500	230	7	7	1 x 1¼	36/25/24	16,4

IP



IP submersible plastic pumps designed for pumping clean and slightly contaminated water. The pumps have an outlet connection to which discharge hoses of different diameters can be connected depending on the user's requirements. Small size and light weight make the pumps exceptionally easy to operate and maintain. The pumps are equipped with float switches for automatic pump control. All pumps are supplied with thermal protection mounted in the motor winding.

IP INOX pumps have a similar design to IP pumps but their housing is made of high quality AISI 304 stainless steel.

APPLICATION:

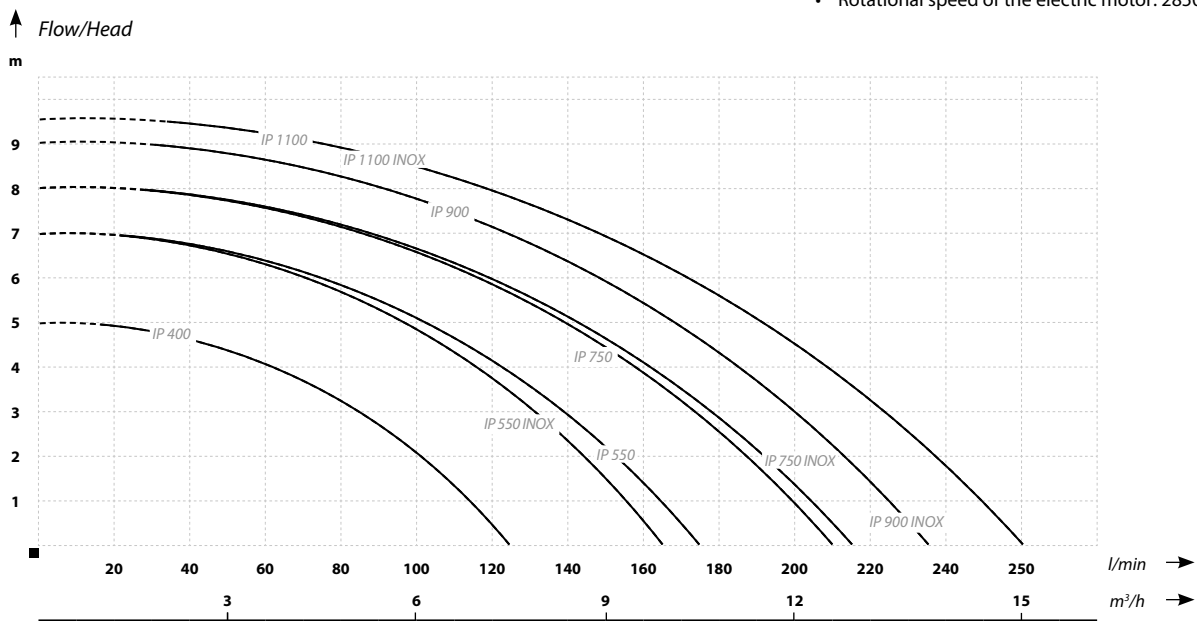
Draining flooded rooms, swimming pools, wells. The pumps can be used in waterholes and for obtaining water from intakes with water surface close to the ground level. The pumps can also be used for pumping rainwater.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- IP - Housing: Technopolymer
- IP INOX - Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Mechanical seal: ceramics/carbon
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
IP 400	5	125	400	230	30	1,25	1 - 1½	23/31	3,8
IP 550	7	175	550	230	30	1,6	1 - 1½	23/31	4
IP 750	8	210	750	230	30	2,15	1 - 1½	23/33	4,3
IP 900	9	235	900	230	30	2,5	1 - 1½	23/34	4,6
IP 1100	9,5	250	1100	230	30	2,75	1 - 1½	23/33	5
IP 550 INOX	7	165	550	230	30	1,6	1 - 1½	23/34	5,4
IP 750 INOX	8	215	750	230	30	2,15	1 - 1½	23/36	5,8
IP 900 INOX	9	235	900	230	30	2,5	1 - 1½	23/37	6,1
IP 1100 INOX	9,5	250	1100	230	30	2,75	1 - 1½	23/38	6,3

IPC 550



Adapter 1

Adapter 2

Adapter 3



A submersible plastic pump designed for pumping clean and slightly contaminated water. IPC 550 pump has a threaded outlet connection with a built-in non-return valve to which 3 different adapters can be attached in order to adapt the outlet diameter to individual requirements. The pumps have a cooling jacket so they do not have to be fully submerged. After removing the suction filter, water can be pumped-off down to 1 mm. Pumping can start at above 5 mm water level. Like IPE and IPK pumps, the IPC 550 pump is equipped with an integrated switch so it can be used in narrow wells. An additional advantage is the option to select the automatic or manual operating mode. Like IPE and IPK pumps, all pumps are supplied with thermal protection mounted in the motor winding.

APPLICATION:

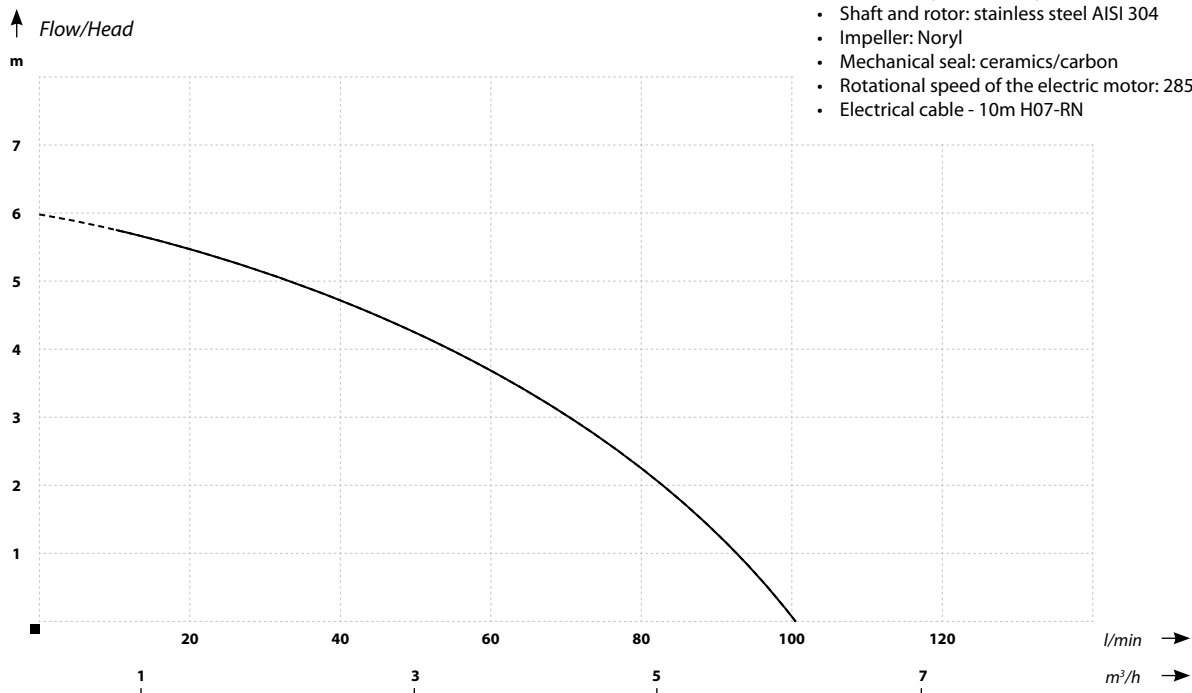
Draining flooded rooms, swimming pools, wells. The pumps can be used in waterholes and for obtaining water from intakes with water surface close to the ground level. The pumps can also be used for pumping rainwater.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

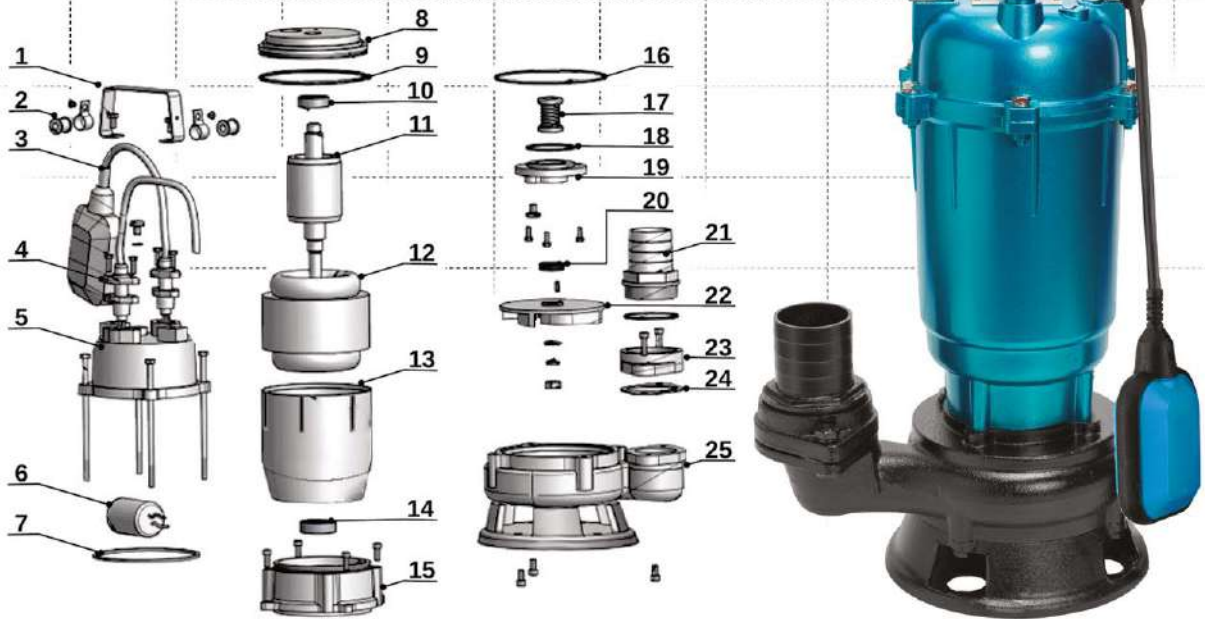
- IP - Housing: Technopolymer
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Mechanical seal: ceramics/carbon
- Rotational speed of the electric motor: 2850RMP
- Electrical cable - 10m H07-RN



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
IPC 550	6	100	550	230	5	2.4	1½	20/31	4

MAGNUM



Submersible pumps designed for pumping sewage and water from flooded premises. The pump is available with a float switch for automatic operation control or without the float switch. Threaded outlet connection and a set of adapters provide connection of the discharge hose with a hose clamp or fast-connection coupling. Magnum pumps are equipped with thermal protection mounted in the motor winding. The motor housing is made of aluminium and the impeller is made of cast iron. Magnum 2500 and 2900 pumps are available with and without the float switch.

APPLICATION:

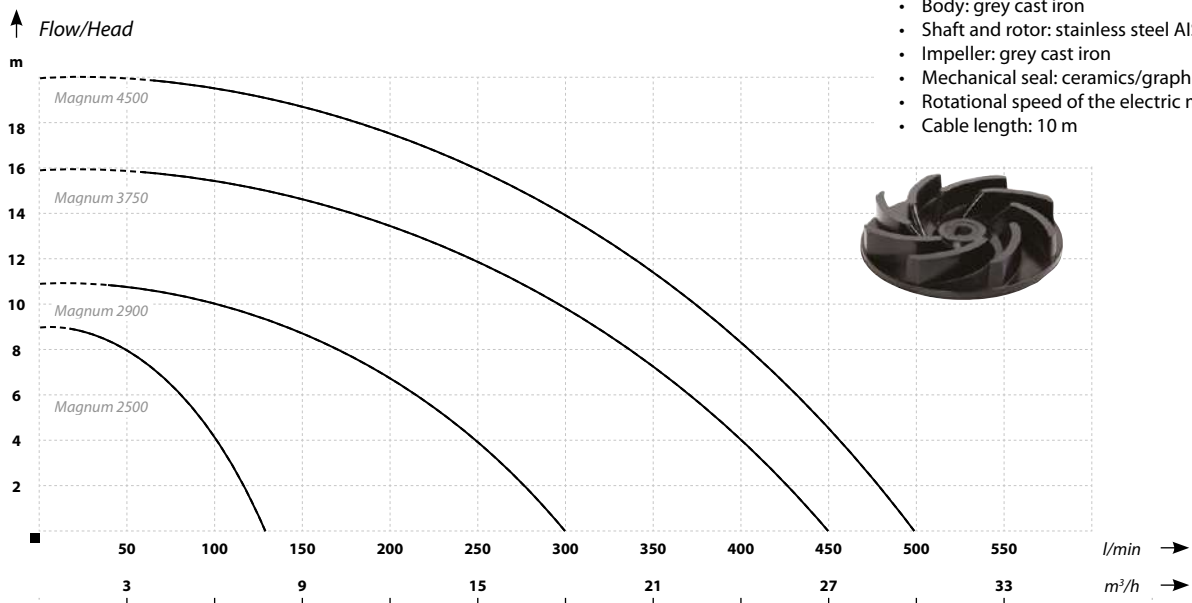
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-8

Materials:

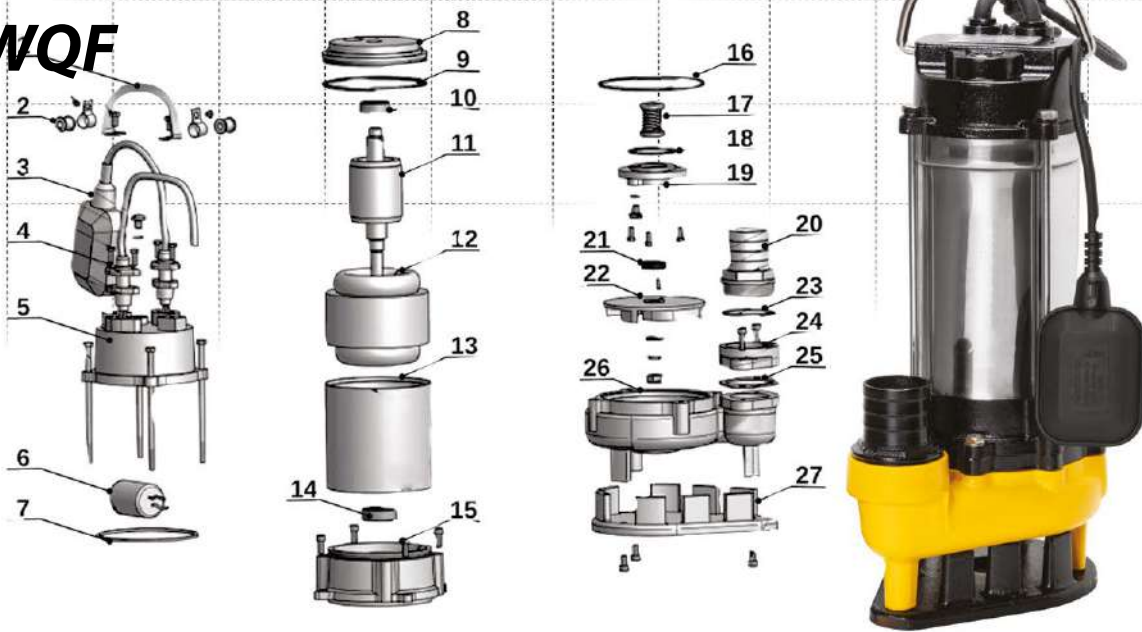
- Motor housing: Aluminium
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
Magnum 2500	9	135	250	230	30	3,0	1½	23/36	6
Magnum 2900	11	300	550	230	35	4,2	2	26/40	12
Magnum 3750	16	450	750	230	35	6,1	2	26/41	14
Magnum 4500	20	500	1500	230	40	10	2	26/47	18

WQF



Submersible pumps designed for pumping sewage, dirty water, and water from flooded premises. The pumps are equipped with float switches for automatic pump control. Threaded outlet connection and a set of adapters provide connection of the discharge hose with a hose clamp or fast-connection coupling. WQF pumps are equipped with thermal protection mounted in the motor winding. The motor housing is made of AISI304 stainless steel, and the impeller is made of grey cast iron.

APPLICATION:

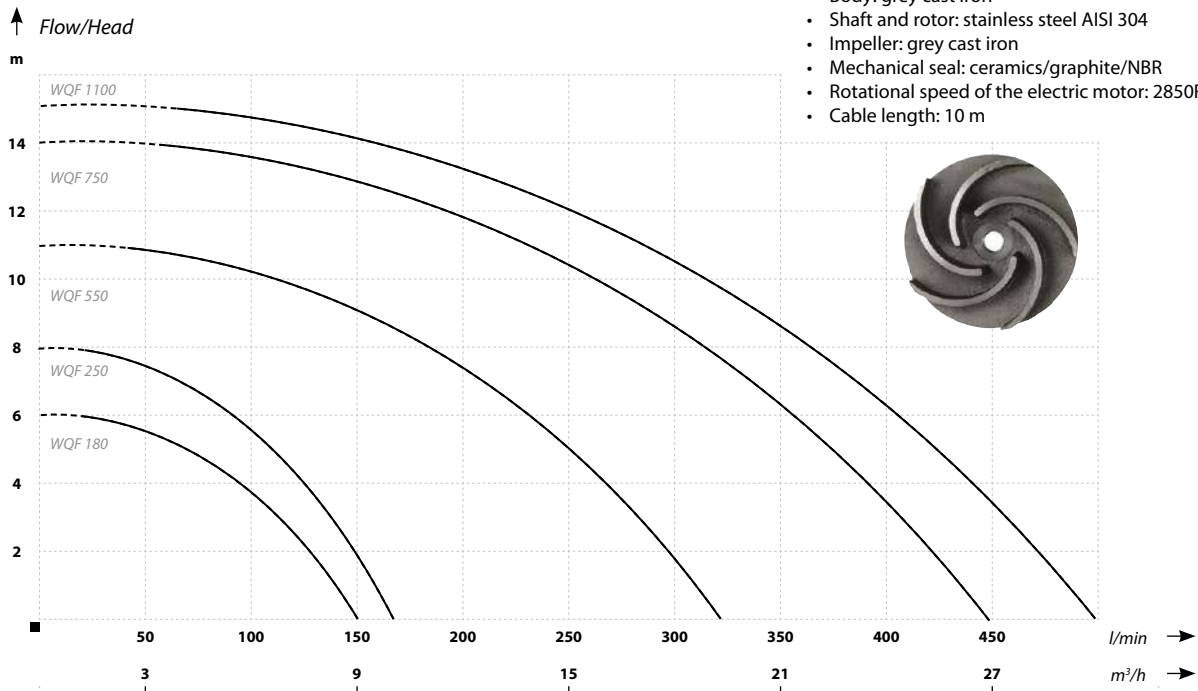
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-9

Materials:

- Motor housing: stainless steel AISI 304
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
WQF 180	6	150	180	230	20	1,75	1	17/37	8
WQF 250	8	170	250	230	20	2,6	1	17/39	9
WQF 550	11	320	550	230	35	4,6	2	25/45	15
WQF 750	14	450	750	230	35	6,7	2	25/47	18,1
WQF 1100	15	500	1100	230	35	9,1	2	26/48	21

SN-450



Submersible pumps designed for pumping sewage, dirty water, and water from flooded premises. SN-450 pump is made of cast iron with VORTEX-type impeller. It can pump water with mechanical impurities with particle diameter of up to 20 mm. The pump is equipped with a vertical float switch for easy automatic operation in 25 cm diameter wells. SN-450 pump is equipped with thermal protection mounted in the motor winding.

APPLICATION:

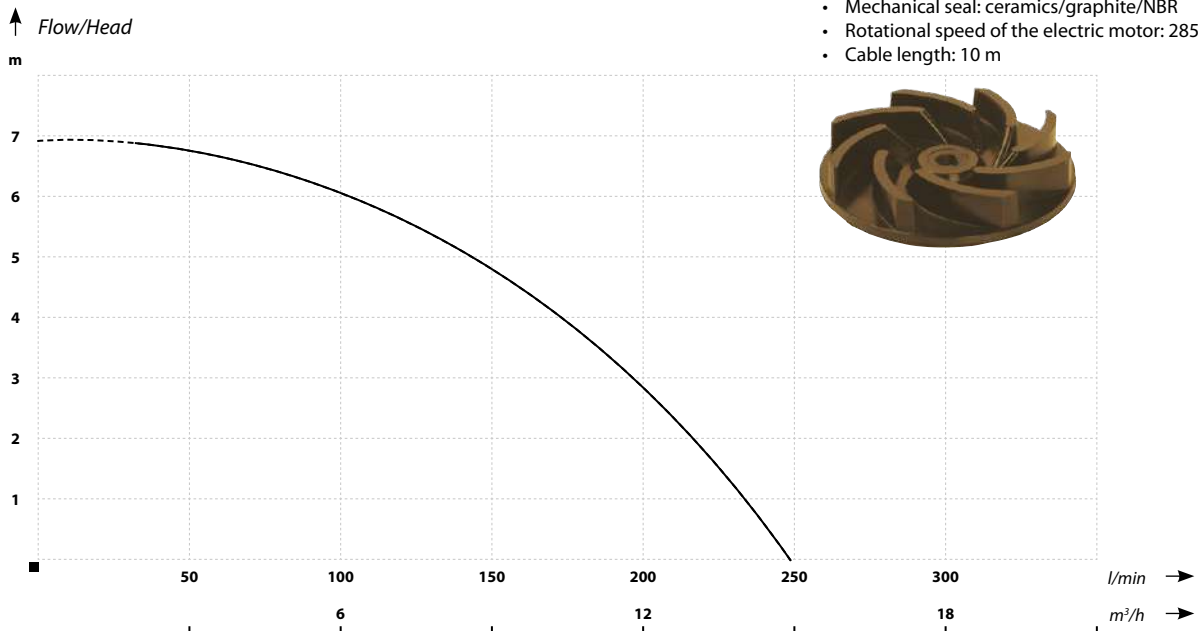
Pumping sewage from domestic septic tanks, draining flooded rooms, houses, garages and premises and pumping water from narrow well and canals. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-8

Materials:

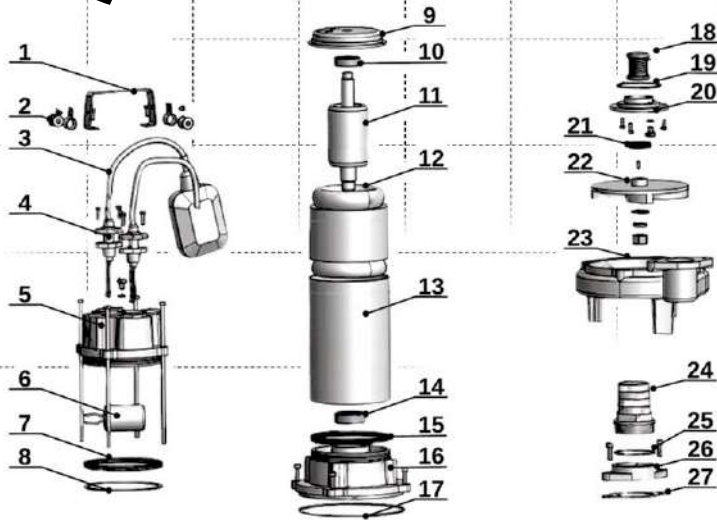
- Motor housing: grey cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
SN-450	7	250	450	230	20	2,5	2	23/40	11,5

SWQ SEPTIC



Submersible pump with a 40mm passage Vortex impeller for pumping sewage, dirty water and water from flooded rooms. SWQ SEPTIC pumps are made of stainless steel and cast iron in order to withstand the adverse sewage environment. Pump outlet connection provides connection of the discharge hose with a hose clamp or fast-connection coupling. These pumps are widely used in agriculture. The SWQ SEPTIC pump is equipped with thermal protection mounted in the motor winding and a float switch for operation control.

APPLICATION:

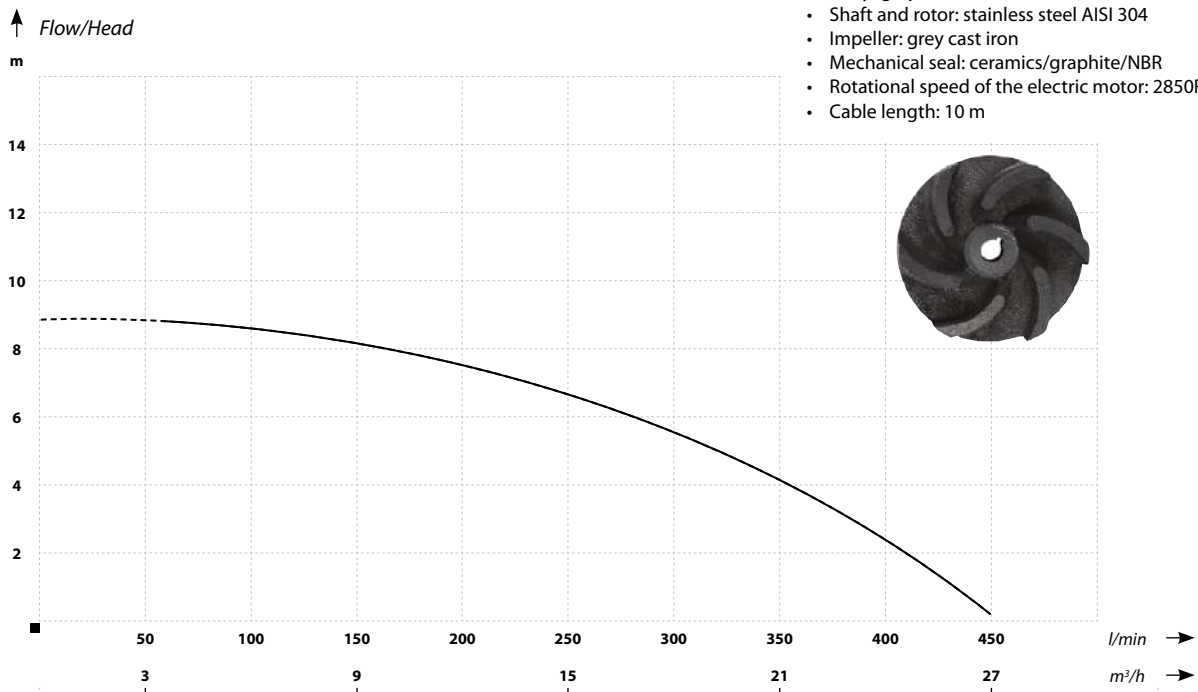
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 4-10

Materials:

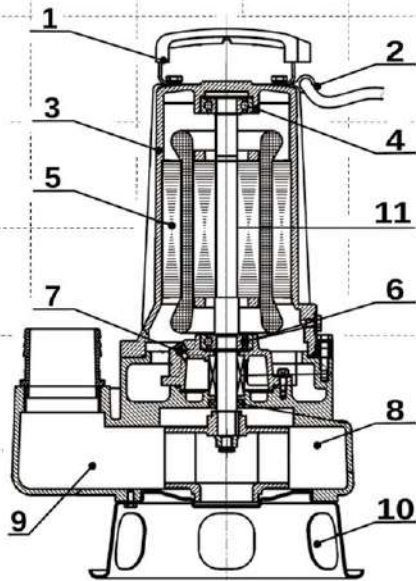
- Motor housing: stainless steel AISI 304
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
SWQ SEPTIC	9	450	1100	230	40	7,7	2	30/48	25

BIG



Professional submersible sewage pumps with two-channel impeller. The BIG 1500 pump is available as 230 V ~/50 Hz version, BIG 2200 - as 400 V ~ 3 / 50 Hz. The impeller design reduces the risk of its clogging and ensures pumping of medium containing solids with maximum particle diameter of 50 mm. The BIG 1500 pump is equipped with a float switch for operation control. Single-phase pumps are supplied with thermal protection mounted in the motor winding. Due to the high quality materials used and the durable design, the pumps can be used in industrial applications.

APPLICATION:

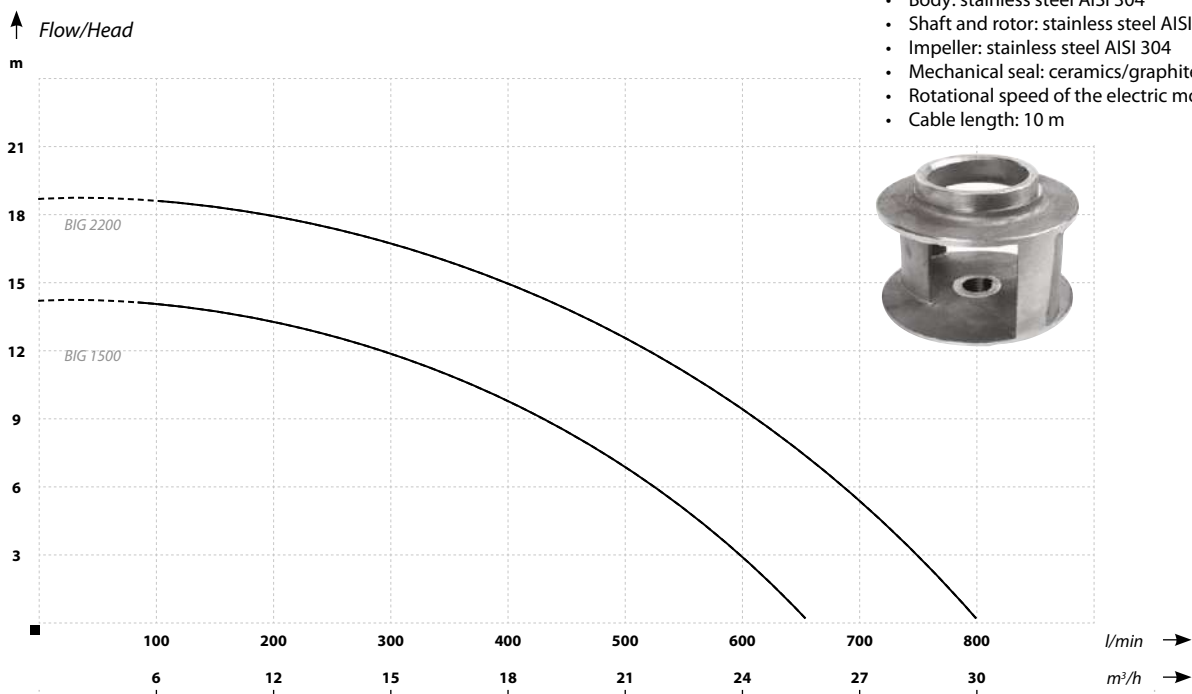
Pumping rainwater and surface water. Draining sewage in buildings, retail facilities and manufacturing plants, in industrial cooling or process water systems. Used in agriculture for draining and irrigation.

Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IPX8
- Water PH: 5-9
- Liquid density: $1.2 \times 10^3 \text{ kg/m}^3$

Materials:

- Motor housing: grey cast iron
- Body: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (mm)	Dimensions (cm)			Weight (kg)
								A	B	C	
BIG 1500	14	666	1500	230	50	8,8	75	349	270	520	37
BIG 2200	19	800	2200	400	50	5,4	80	349	270	520	43

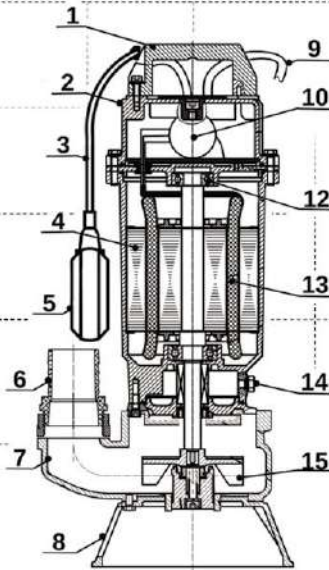
SUBMERSIBLE PUMPS WITH CUTTING SYSTEM



FURIATKA



CUTTER



Submersible cast iron pumps with cutting system. The pumps are designed for pumping domestic sewage and draining flooded rooms. In order to minimize the risk of clogging, the pumps are equipped with an exceptionally effective "screw" cutting system. To ensure reliable operation, the pumps have overload protection mounted on the cable. To prevent motor overloading, the protection will stop the pump. The cast iron construction makes the pumps resistant to mechanical damage and chemical corrosion. The pumps are equipped with a float switch for automatic operation control, and the pump outlet provides connection of the discharge hose with a hose clamp or fast-connection. Their robust design and exceptionally effective cutting system have made the Furiatka series one of the most popular pumps with cutting system on the market in Poland.

PUMP TEST: <https://youtu.be/25uq0YBlw78>

APPLICATION:

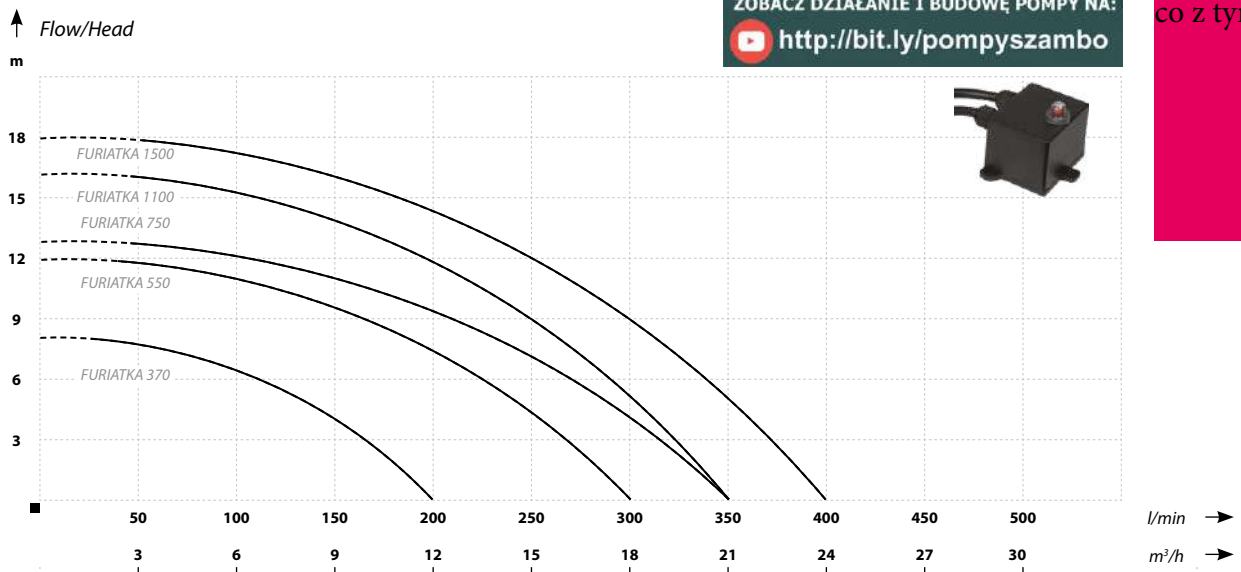
Pumping sewage from domestic and agricultural septic tanks, and draining flooded rooms, houses and garages. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes. Domestic sewage treatment plants.

Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-9

Materials:

- Motor housing: grey cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Cutting knife: grey cast iron/stainless steel AISI 304
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



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<http://bit.ly/pompyszambo>



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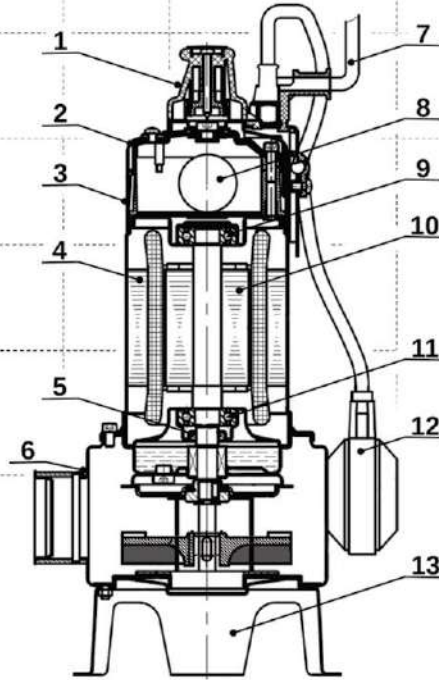
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
FURIATKA 370	8	200	370	230	3	1½	21/40	10
FURIATKA 550	12	300	550	230	5,5	2	25/46	19
FURIATKA 750	13	350	750	230	6,5	2	26/47	19,6
FURIATKA 1100	16	350	1100	230	10	2	25/47	22,9
FURIATKA 1500	18	400	1500	230	12	2	26/48	23,1

SUBMERSIBLE PUMPS WITH CUTTING SYSTEM



SWQ



Stainless steel submersible pumps with cutting system. Designed for pumping dirty water and domestic sewage. The risk of clogging has been minimized due to open cutting system. The top quality stainless steel design ensures long-term and reliable operation of the pumps. The motor is equipped with thermal protection mounted in the winding. In addition, the pumps have a float switch for automatic operation control.

APPLICATION:

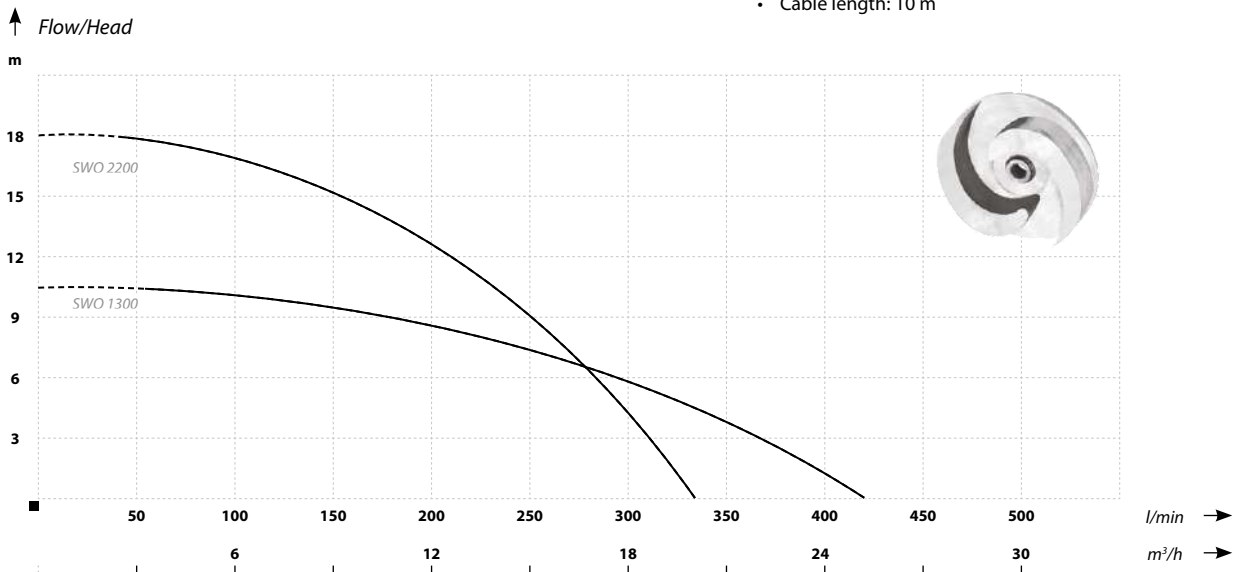
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

Operating conditions:

- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 4 - 10

Materials:

- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller/cutting system: stainless steel AISI 304
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions (mm)		Weight (kg)
								H	B	
SWQ 1300	10	417	1300	230	25	7	2	480	250	12,5
SWQ 2200	18	333	2200	230	25	9	2	600	320	14,5

3" SKM / 4" SKM

3"SKM 100

3" (75 mm diameter) multi-stage deep well peripheral pump. Due to the small diameter, the pump can be installed in well with 25 cm diameter pipes. Depending on the customer requirements, the pump can be equipped with standard 15 or 20 m cable with a plug.

Due to the capacitor built into the motor, the pump is ready for installation immediately after unpacking. The pump is supplied with thermal protection mounted in the motor winding.

4"SKM 100

4" (98 mm diameter) deep well peripheral pumps. The pumps are designed for minimum 4-inch wells. Durable materials such as stainless steel and brass have been used in the production of pump impellers. The pumps are available with the following power cables terminated with a plug:

- 4"SKM 100 – 15m / capacitor built into the motor
- 4"SKM 100 – 20m + control box
- 4"SKM 150 – 15m / capacitor built into the motor
- 4"SKM 150 – 20m + control box
- 4"SKM 200 – 15m / capacitor built into the motor

Depending on the version, the 4"SKM pumps have thermal protection mounted in the motor winding or in the control box. The pumps are available as single-phase 230 V ~ /50 Hz versions - 4 SKM, and 3-phase 400 V ~ 3/50 Hz versions - 4 SKT.

APPLICATION:

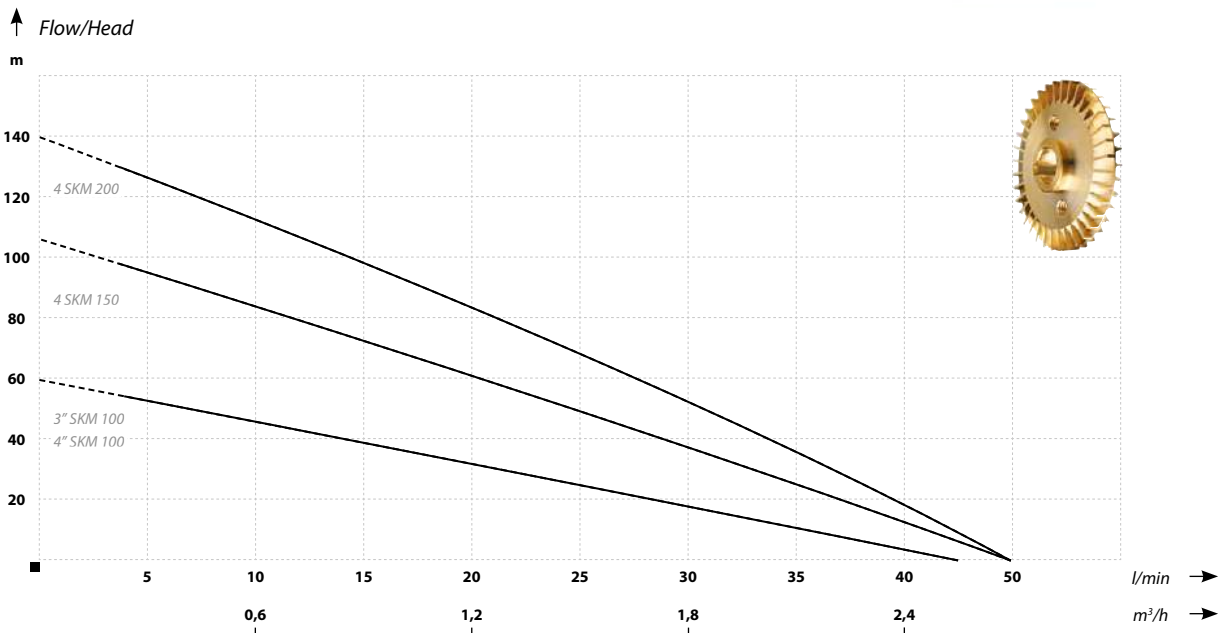
Supply of water to single-family houses and holiday houses. Irrigating gardens.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Brass
- Venturi tube: stainless steel
- Mechanical seal: Carbon-SiC/SiC
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
3" SKM 100	60	45	750	230	5	1	75/590	12
4" SKM 100	60	45	750	230	5,8	1	98/530	16
4" SKM 150	107	50	1100	230/400	10	1	98/530	16
4" SKM 200	140	50	1500	230/400	11	1	98/540	17

OLA INOX / AUTO

OLA / OLA INOX

98 mm diameter multi-stage deep well pumps for minimum 4" diameter ring and drilled wells. The pumps have a motor cooling jacket so they do not have to be completely submerged, and there is no need for a jacket tube, which is required for classic multi-stage pumps. Due to the capacitor built into the motor, the pump is ready for installation immediately after unpacking. The pumps are equipped with thermal protection mounted in the motor winding.

OLA AUTO

The OLA AUTO pumps are equipped with automatic pump control so there is no need to install additional equipment such as a pressure switch or external PC or SK control. The principle of the sensor operation is based on the flow rate monitoring. When the pump is connected to the electrical or hydraulic system, opening the tap will start the pump, and closing it will stop the pump within a few seconds. The pump has a built-in non-return valve that limits the return of water from the system.

Both Ola 60/60 and OLA AUTO pumps can be installed together with a pressure tank, however, it should be remembered that an additional pressure switch does not need to be installed with OLA AUTO pumps.

APPLICATION:

Pumping water from ring wells, deep water wells, lakes and rivers. Supply of utility (tap) water to holiday houses and single-family houses. Irrigating gardens.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Venturi tube: Noryl
- Mechanical seal: Carbon-SiC/SiC
- Motor: cooling jacket
- Rotational speed of the electric motor: 2850RMP



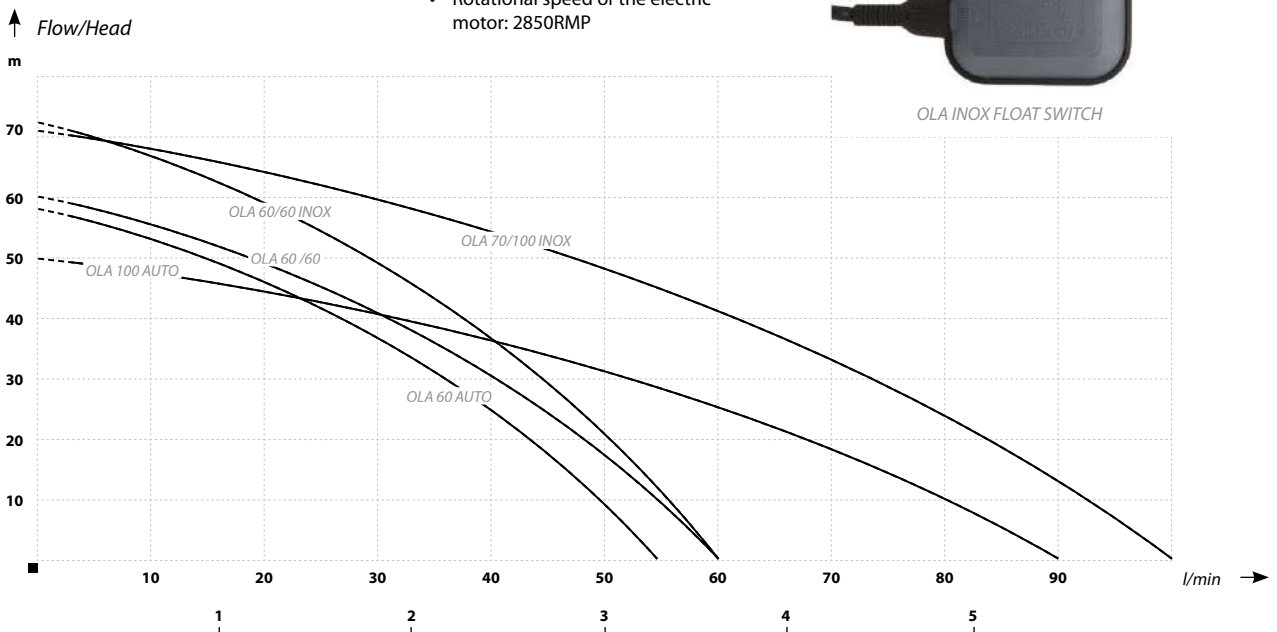
OLA INOX

OLA

OLA AUTO



OLA INOX FLOAT SWITCH



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Cable length (m)	Dimensions Dia/H (mm)	Weight (kg)
OLA 60 /60	60	60	1000	230	5,2	1¼	20	69/630	10,75
OLA 60 AUTO	58	55	450	230	4,1	1	20	98/890	11
OLA 100 AUTO	50	90	800	230	5,0	1	20	98/920	14
OLA 60/60 INOX	72	60	800	230	4,6	1	20	98/680	11,5
OLA 70/100 INOX	71	100	1100	230	6,9	1	20	98/770	13,4

2.5" MULTI-STAGE DEEP WELL SAND RESISTANT PUMPS



2,5" STM

INCREASED RESISTANCE TO SAND

2.5" (66 mm diameter) multi-stage deep well pumps with increased resistance to sand. The 2.5 STM pumps were the first multi-stage pumps available on the Polish market with a diameter of less than 3". The pump capacitor is built into the motor. The pumps are available with 1.5 m long cable section or 20 m long stock cable terminated with a plug. Increased resistance to sand is achieved by using "floating impellers" and the selection of wear-resistant materials. The pumps are equipped with thermal protection mounted in the motor winding.

APPLICATION:

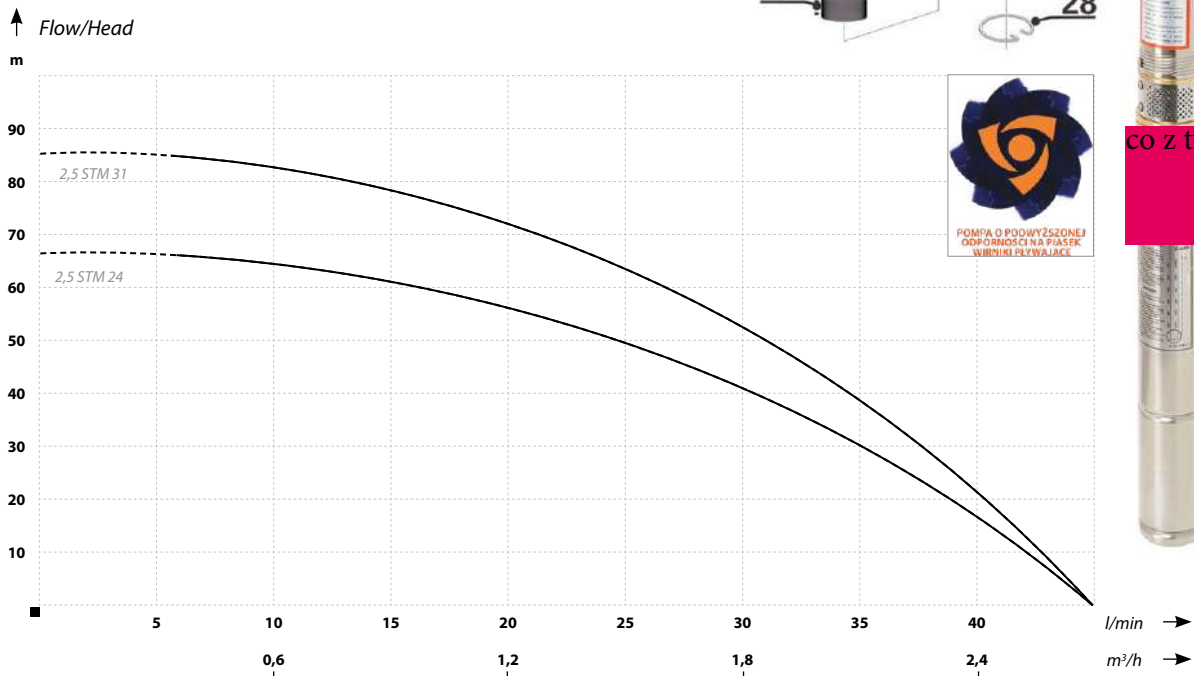
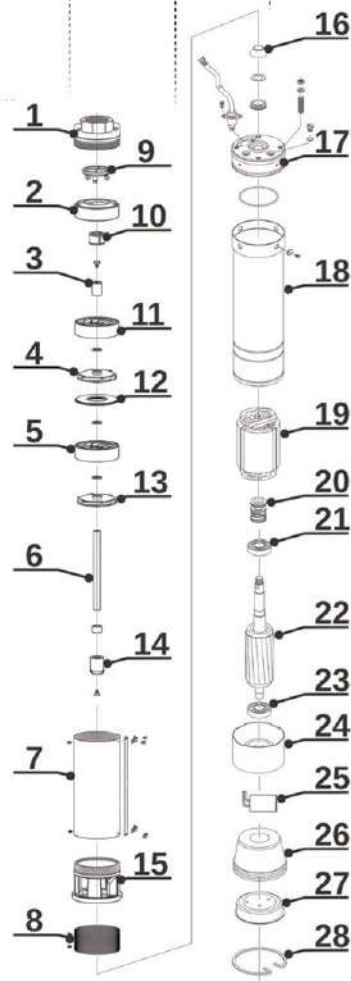
Supply of water to single-family houses and holiday houses. Irrigating small gardens.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Inlet/outlet: brass
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Venturi tube: steel Noryl
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP



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PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
2,5 STM 24	66	45	370	230	2,8	1	66/1305	7,8
2,5 STM 31	85	45	550	230	4,2	1	66/1565	9,5

3" MULTI-STAGE DEEP WELL SAND RESISTANT PUMPS



3" SDM

INCREASED RESISTANCE TO SAND

3 inch (74 mm diameter) multi-stage deep well pumps, with increased resistance to sand, intended for 3 and 4 inch wells. Increased resistance to sand is achieved by using "floating impellers" and the selection of wear-resistant materials. The pump capacitor is built into the motor so the electrical system is much simpler than in case of pumps with a control box. The pumps are available with 1.5 m long cable section or 20 m long stock cable terminated with a plug. The pumps are equipped with thermal protection mounted in the motor winding. The pumps design is the same as 3" Ti pumps but they provide higher flow of up to 70l/min.

APPLICATION:

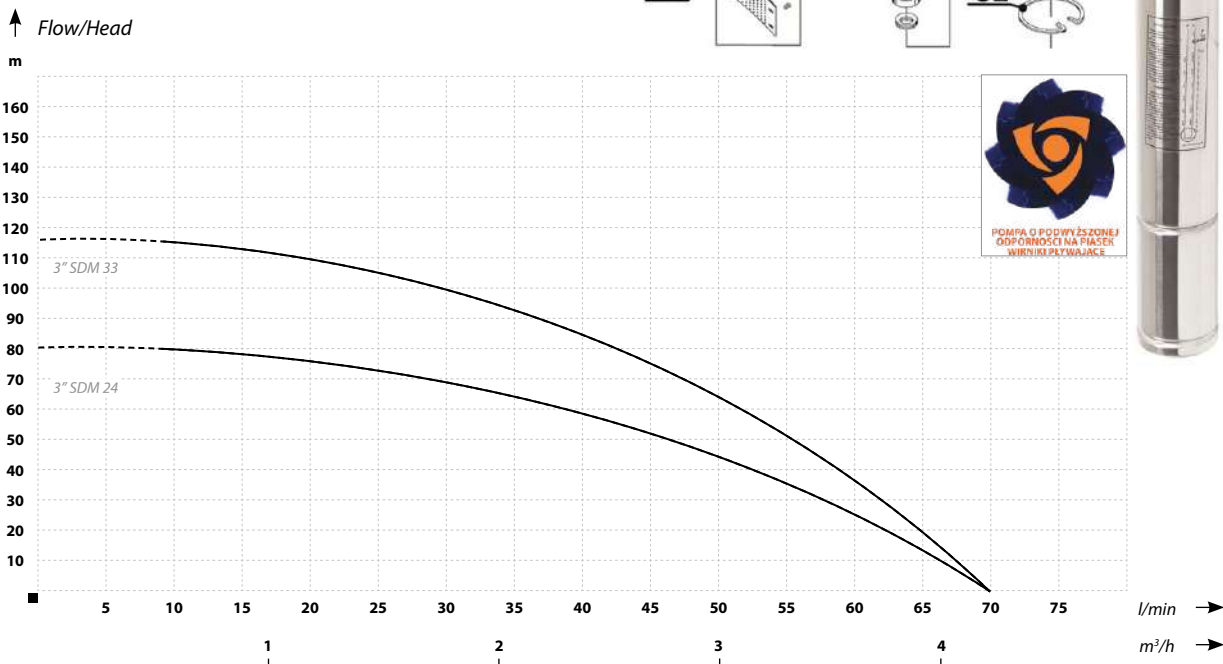
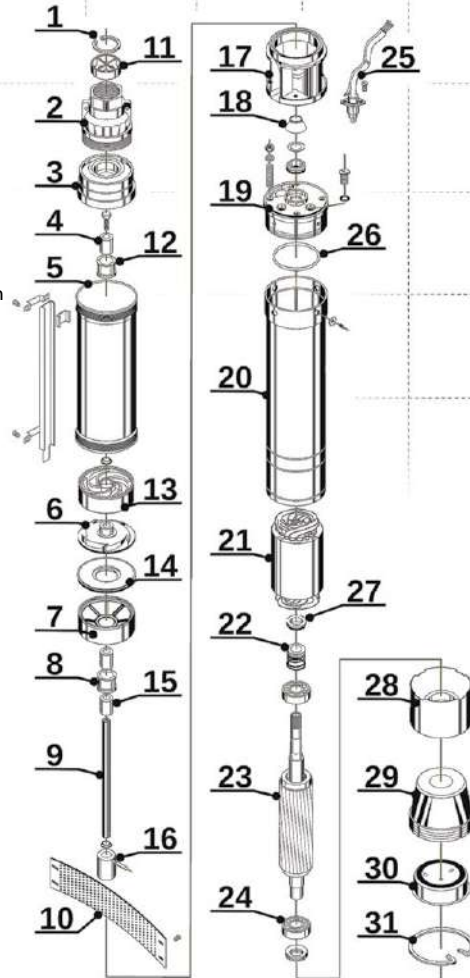
Supply of water to single-family houses and holiday houses. Irrigating gardens. Drainage/dewatering.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Inlet/outlet: brass
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Venturi tube: Noryl
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (Inch)	Dimensions Dia/H (mm)	Weight (kg)
3" SDM 24	80	70	750	230	6,5	1¼	75/1320	11
3" SDM 33	117	70	1100	230	7,2	1¼	75/1660	13

4"SD/4"SDM INCREASED RESISTANCE TO SAND

98 mm diameter multi-stage deep well pumps with increased resistance to sand, intended for minimum 4 inch diameter wells.

All SD pumps have PZH (National Institute of Hygiene) approval. 4SD/4SDM pumps are available with IBO and IBO ITALY motors as 400V~3 /50Hz and 230V / 50Hz versions. Increased resistance to sand is achieved by using "floating impellers" and the selection of wear-resistant materials: brass inlet and outlet, AISI 304 stainless steel housing, shaft and filter screen, and the impellers made of high quality plastic materials. Pumps with 230 V ~ / 50 Hz motors are equipped with a control box with built-in capacitor and overcurrent protection. Pumps with 0.75 kW to 2.2 kW motors are available with 1.5 m or 20 m long cable. 4SD 2/12 pumps have 20 m power cable.

Pumps with 3 kW to 4 kW motors are available with 2 m long cable. Pumps with 5.5 kW do 7.5 kW motors are available with 3 m long cable. Upon request, the cable can be extended by any length. The IBO 4SD series were the first pumps on the market to be known as "sand resistant". Currently, they are among the few on the market to provide such high sand resistance. Maximum sand content in water is up to 5%.

Application:

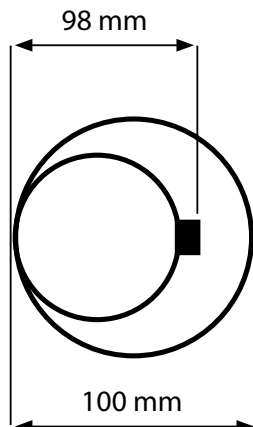
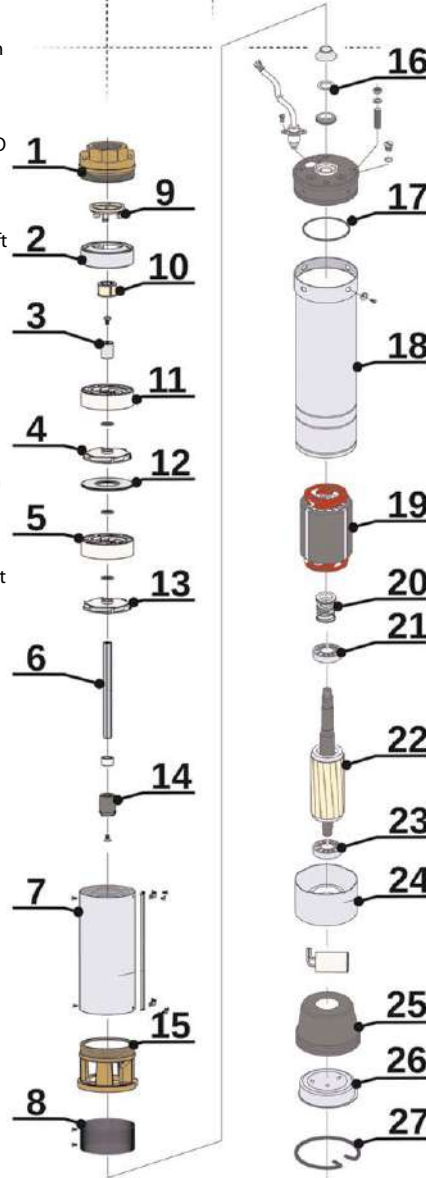
Supply of water to single-family houses and farms from deep well intakes. Irrigating gardens and orchards. Land drainage/dewatering. Water supply systems. Industrial applications.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B/F Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Inlet/outlet: brass
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Venturi tube: Noryl
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP



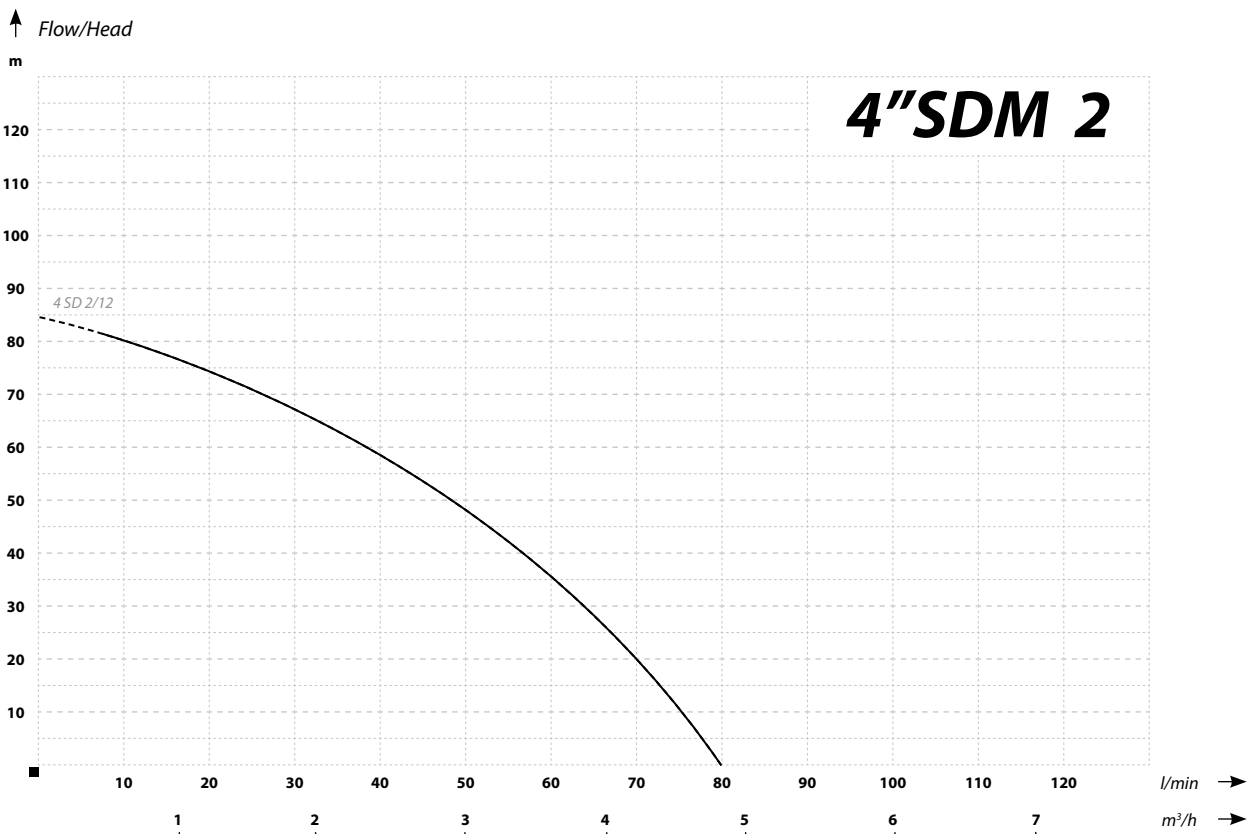
4" MULTISTAGE DEEP WELL SAND RESISTANT PUMPS

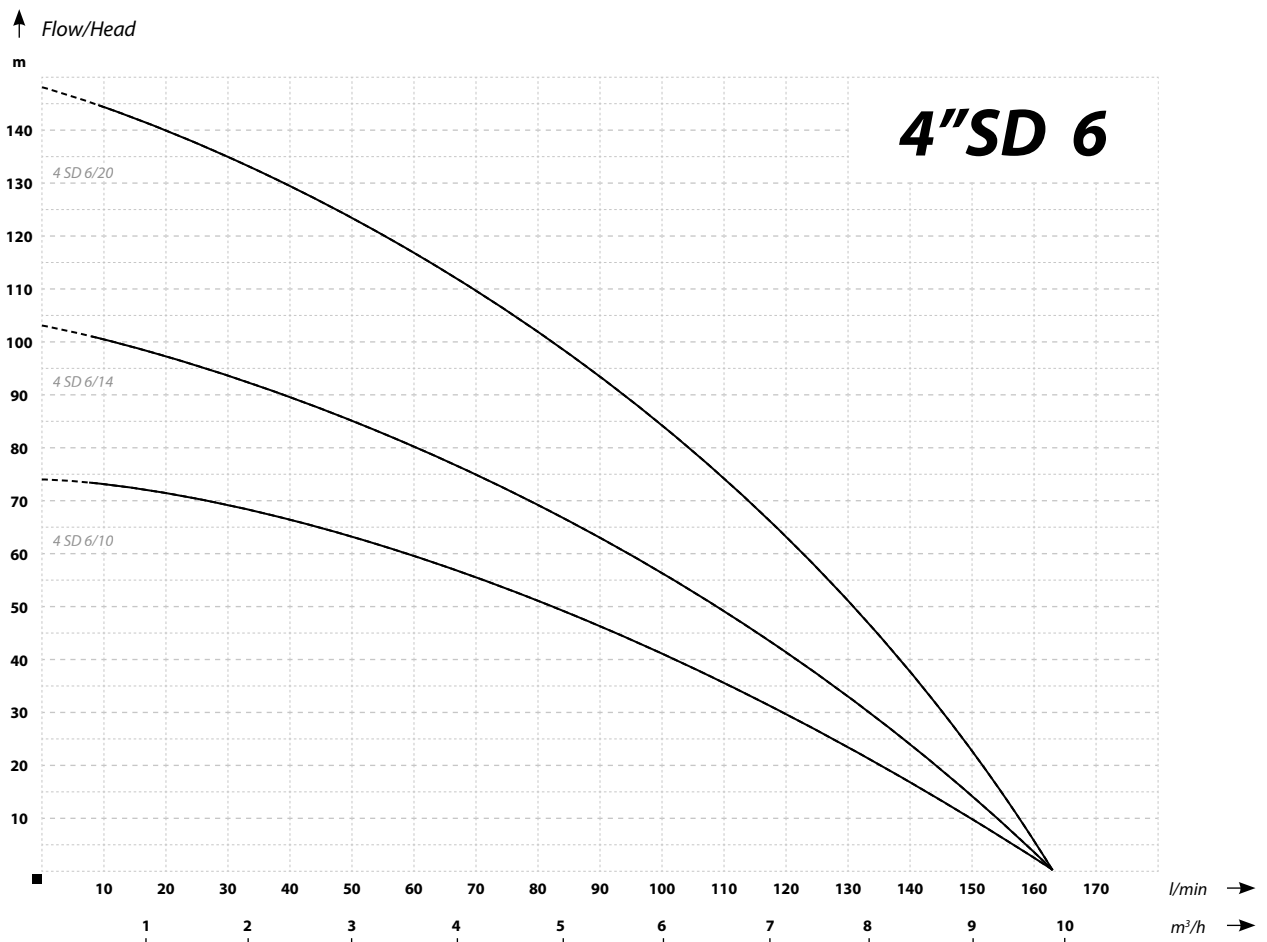
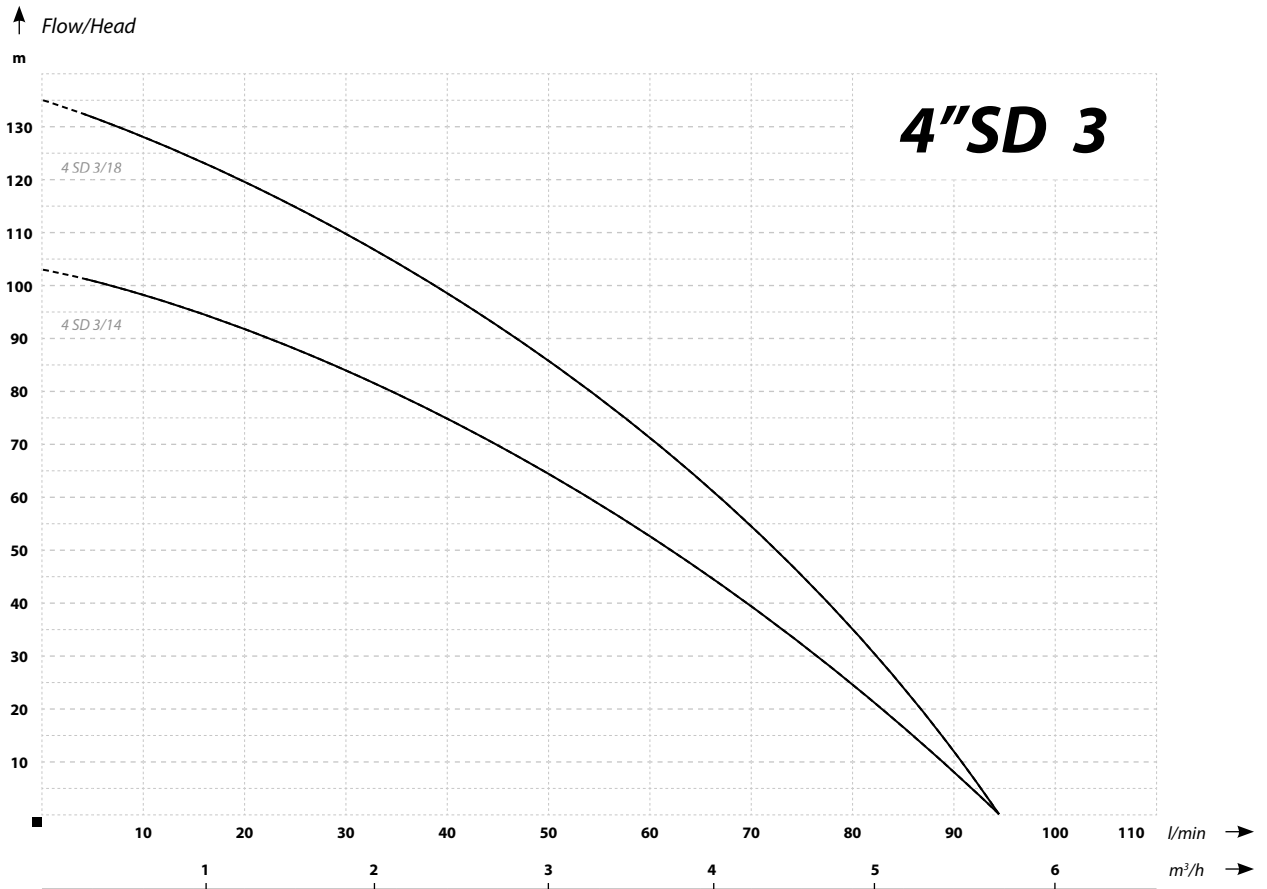


Depending on the production batch, the device parameters may differ from the data provided in the table

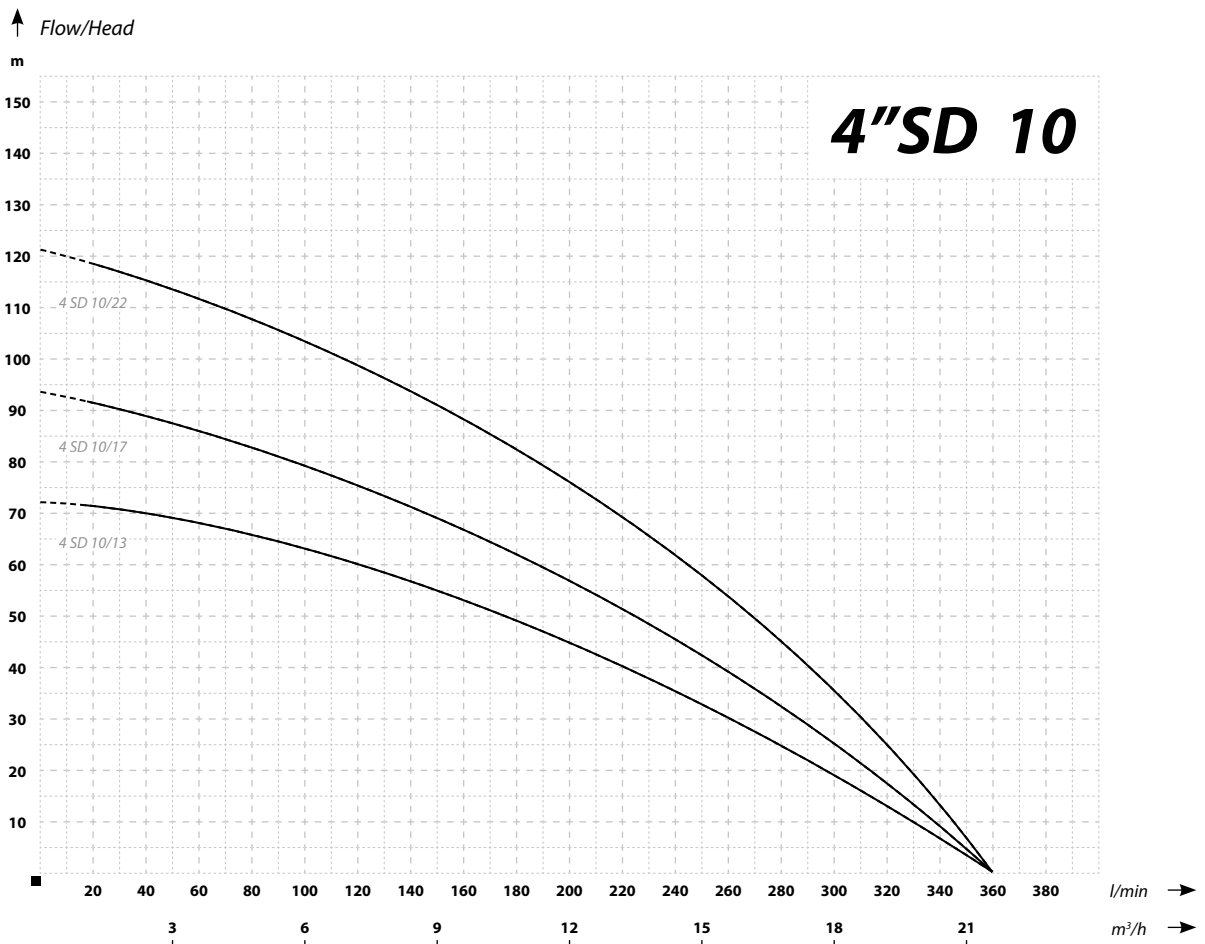
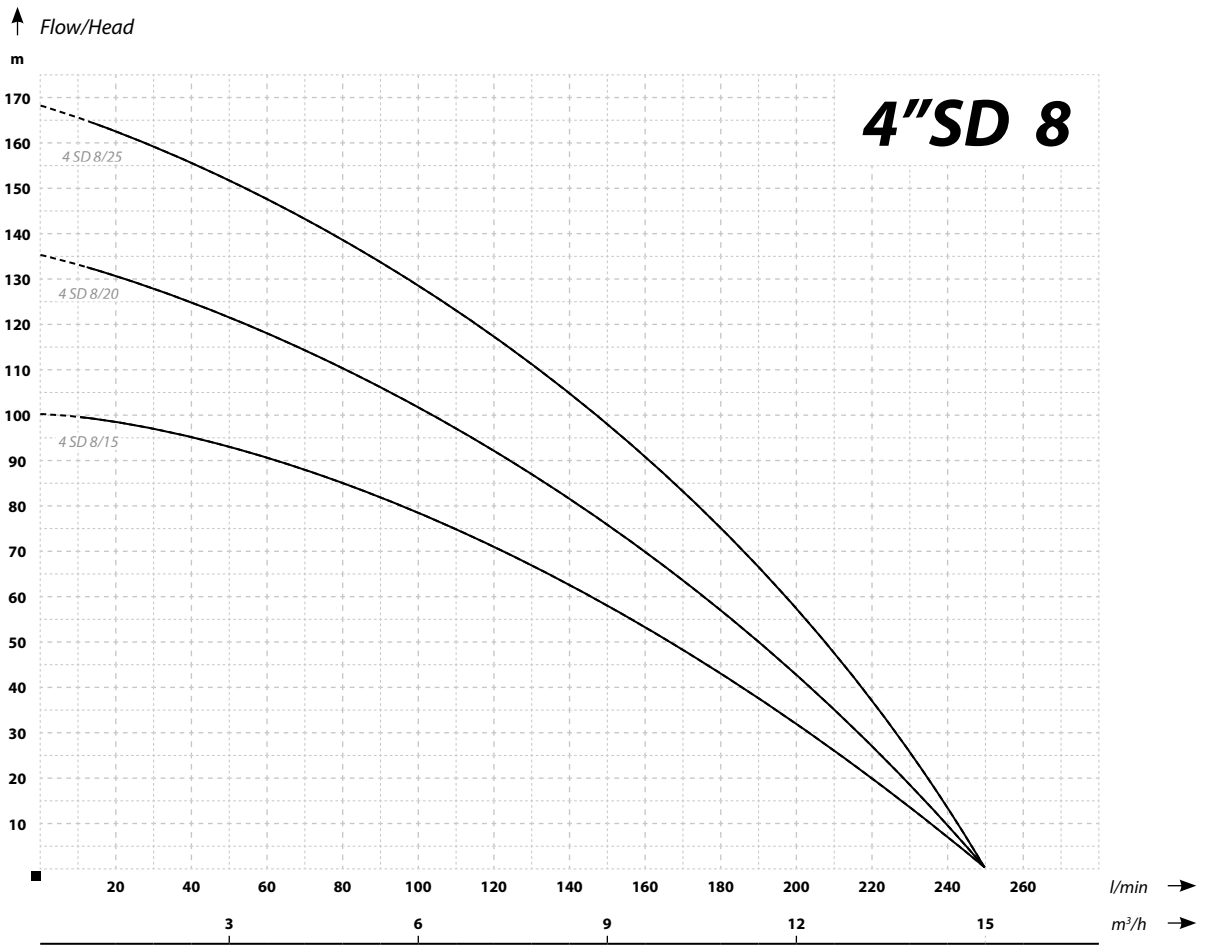
PARAMETERS

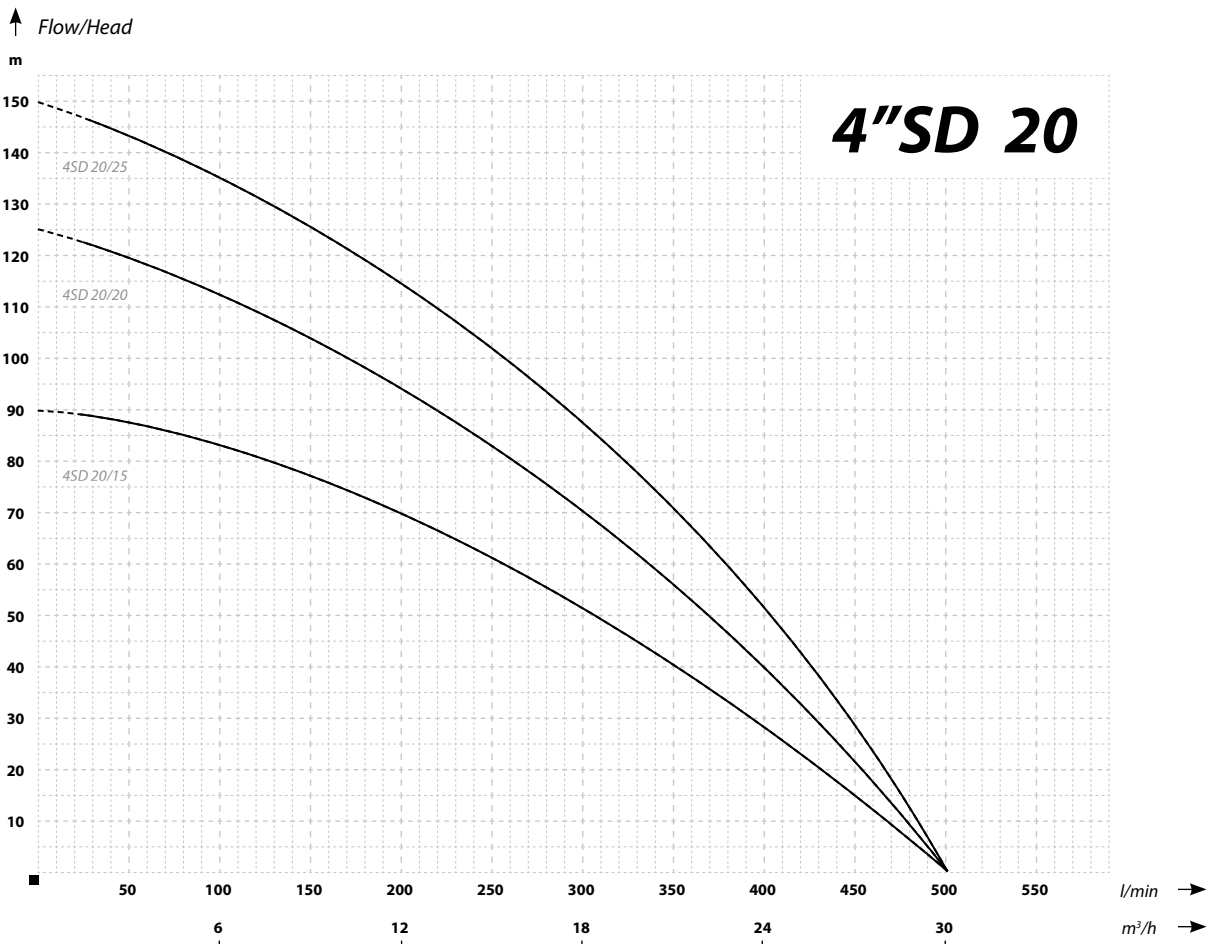
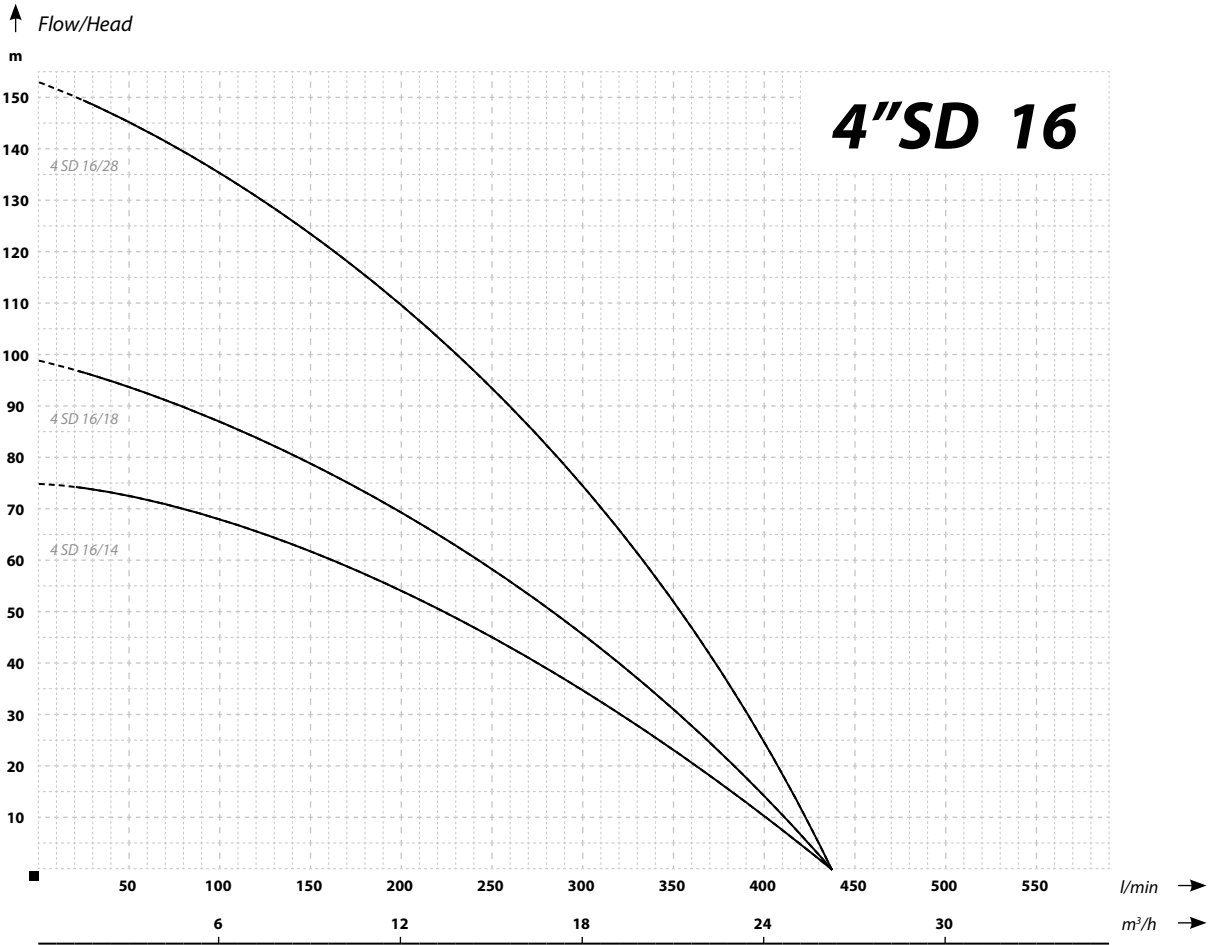
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
4SD 2/12	85	80	0,75	230	6,3	1¼	98/930	16
4SD 3/14	103	94	1,1	230/400	8,5/4,0	1½	98/1050	17
4SD 3/18	135	94	1,5	230/400	10,5/5,0	1½	98/1260	19
4SD 6/10	74	162	1,5	230/400	10,5/5,0	2	98/1100	18
4SD 6/14	103	162	2,2	230/400	15,5/6,3	2	98/1340	21
4SD 6/20	148	162	3	400	7,2	2	98/1580	23
4SD 8/15	100	250	3	400	7,2	2	98/1640	23
4SD 8/20	135	250	4	400	9,2	2	98/1970	30
4SD 8/25	169	250	5,5	400	12,9	2	98/2430	35
4SD 10/13	72	360	3	400	7,2	2	98/1650	26
4SD 10/17	94	360	4	400	9,2	2	98/2010	31
4SD 10/22	121	360	5,5	400	12,9	2	98/2460	38
4SD 16/14	75	435	4	400	9,2	2	98/1800	30
4SD 16/18	99	435	5,5	400	12,9	2	98/2250	37
4SD 16/28	153	435	7,5	400	18,5	2	98/3000	47
4SD 20/15	90	500	4	400	9,2	2	98/2120	29
4SD 20/20	125	500	5,5	400	12,9	2	98/2360	37
4SD 20/25	150	500	7,5	400	18,5	2	98/2840	46





4" MULTI-STAGE DEEP WELL SAND RESISTANT PUMPS





4" STAINLESS STEEL MULTI-STAGE DEEP WELL PUMPS



4"ISP / 4"ISPM

98 mm diameter stainless steel multi-stage deep well pumps intended for minimum 4" diameter wells. Maximum sand content in water is up to 0.3%.

Due to the materials used, the ISP pumps are among the most durable deep well pumps. Inlet, outlet, housing, shaft and impellers are made entirely of stainless steel.

4 ISPM pumps are available with IBO and IBO ITALY 230 V ~ / 50Hz motors. 4 ISP pumps are available with IBO and IBO ITALY 400 V ~ / 50Hz motors.

Pumps with 230 V ~ / 50 Hz motors are equipped with a control box with built-in capacitor and overcurrent protection.

Pumps with 0.75 kW to 2.2 kW motors are available with 1.5 m or 20 m long cable. Upon request, the cable can be extended by any length.

Application:

Supply of water to single-family houses and farms from deep well intakes. Irrigating gardens and orchards. Land drainage/dewatering. Water supply systems. Industrial applications.

Operating conditions:

- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B/F Insulation
- Operating mode - continuous
- Protection - IP68

Materials:

- Inlet/outlet: stainless steel AISI 304
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Venturi tube: stainless steel AISI 304
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP

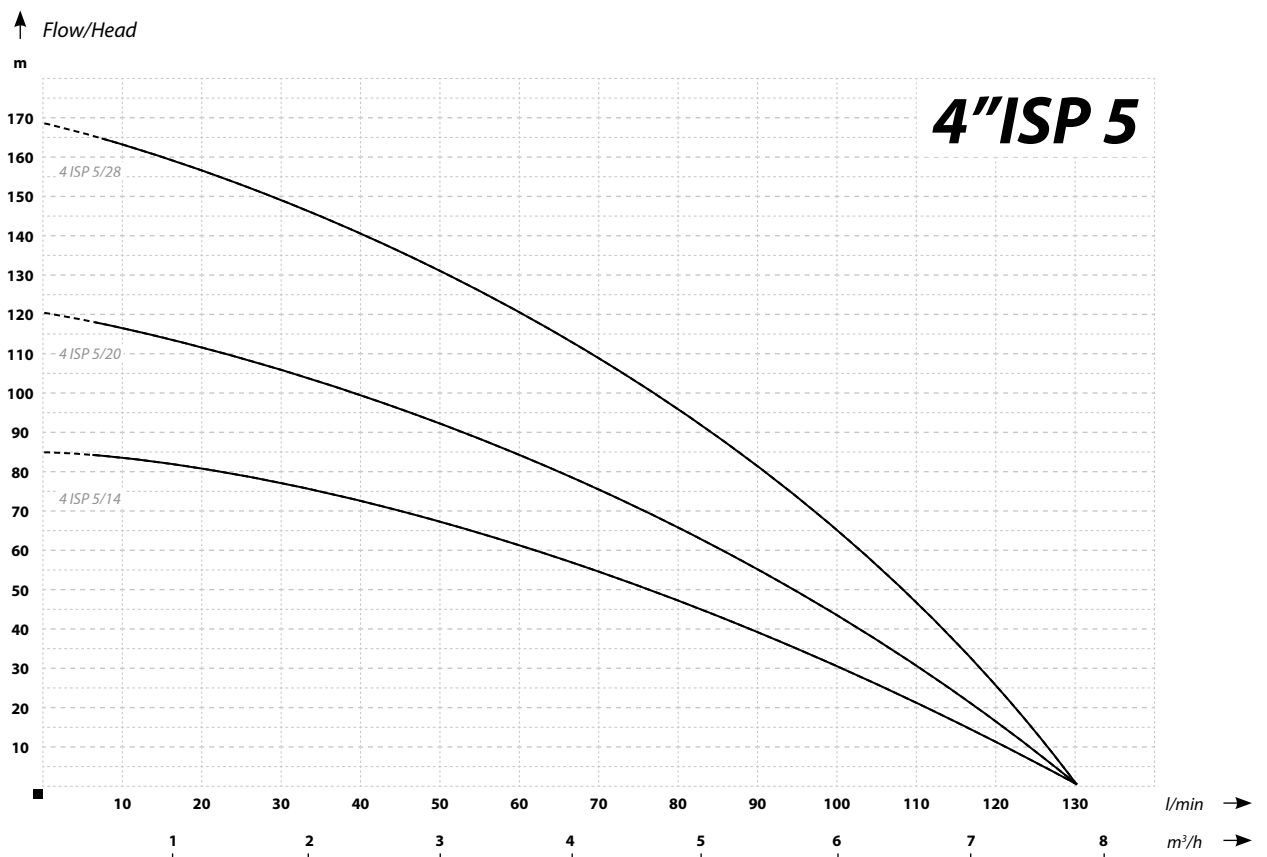
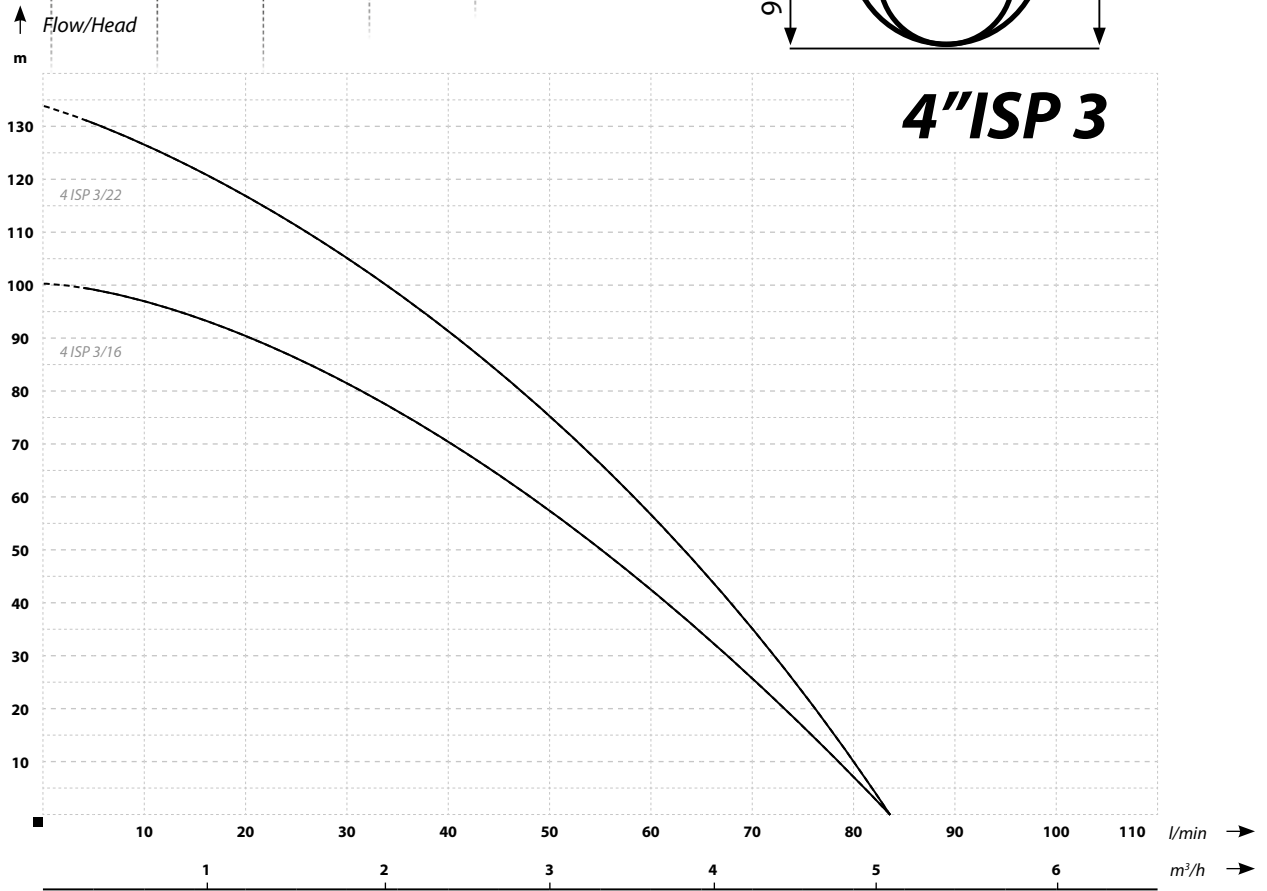
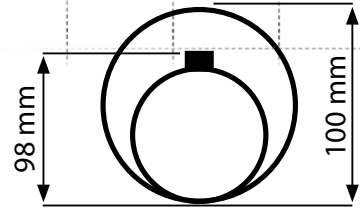


Depending on the production batch, the device parameters may differ from the data provided in the table

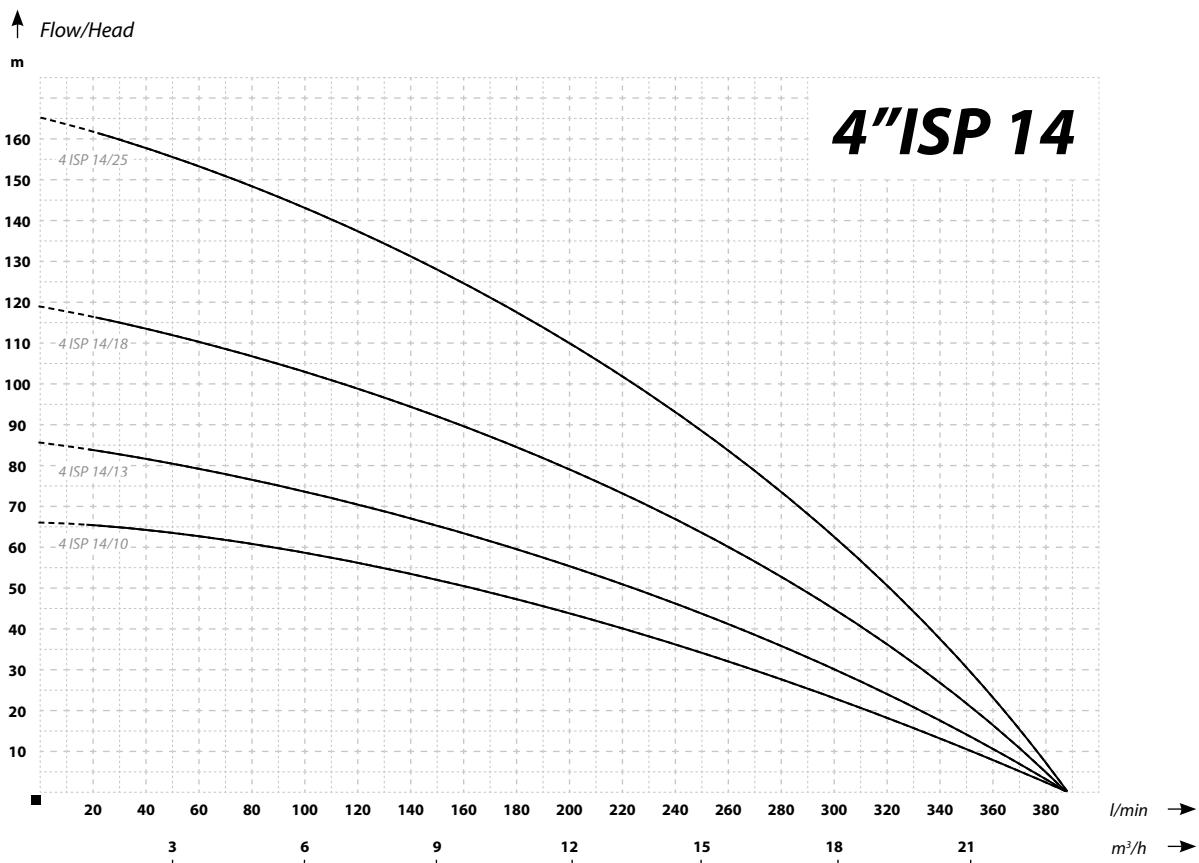
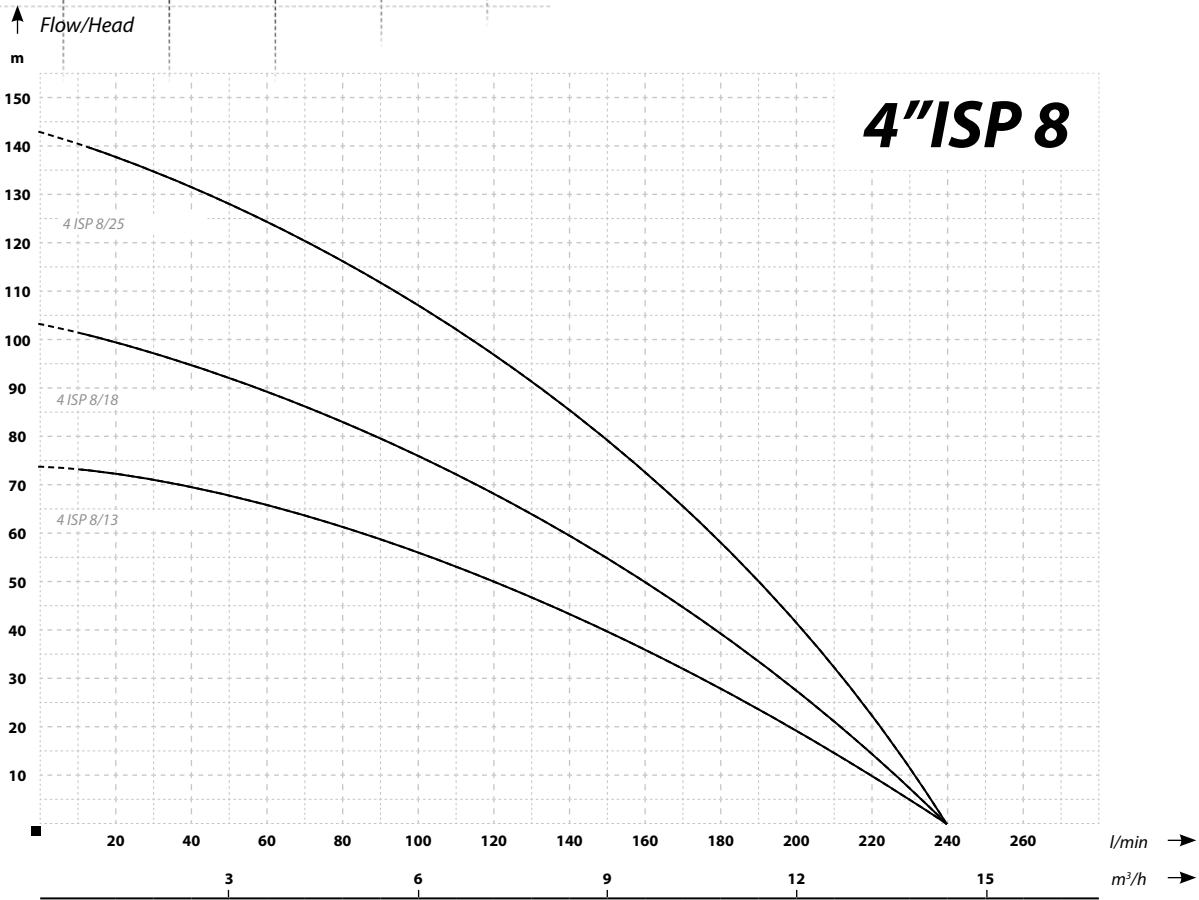
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
4 ISP 3/16	100	83	1,1	230/400	8,5/4,0	1¼	98/950	16
4 ISP 3/22	134	83	1,5	230/400	10,5/5,0	1¼	98/1100	20
4 ISP 5/14	85	130	1,5	230/400	10,5/5,0	1½	98/950	19
4 ISP 5/20	120	130	2,2	230/400	15,5/6,3	1½	98/1140	22
4 ISP 5/28	169	130	3	400	7,2	1½	98/1340	25
4 ISP 8/13	74	240	2,2	230/400	15,5/6,3	2	98/1150	23
4 ISP 8/18	103	240	3	400	7,2	2	98/1400	26
4 ISP 8/25	143	240	4	400	9,2	2	98/1780	32
4 ISP 14/10	66	383	3	400	7,2	2	98/1150	22
4 ISP 14/13	86	383	4	400	9,2	2	98/1350	27
4 ISP 14/18	119	383	5,5	400	12,9	2	98/1670	33
4 ISP 14/25	165	383	7,5	400	18,5	2	98/2160	44

4"ISP / 4"ISPM



4"ISP / 4"ISPM





MAGI

Energy-saving electronic circulation pumps with A energy-efficiency rating.



Energy Efficiency Index for MAGI pumps is

$$EEI \leq 0,20$$

which according to Commission Regulation (EU) No. 622/2012 is the reference criterion for: the most energy-efficient circulation pumps.

The MAGI circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user.

Current power consumption is displayed on its panel. The pump is supplied with union joints and cable adapter.

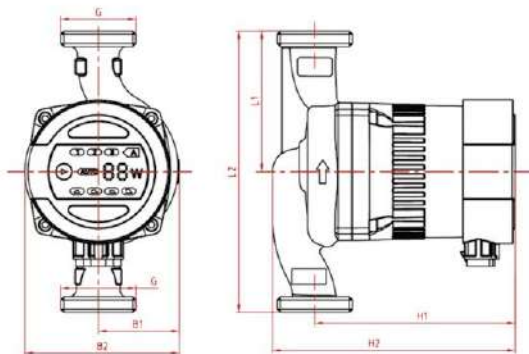
The pump provides 8 operating modes:

- **AUTO (factory setting)**
 - From highest to lowest proportional pressure characteristic curve
- **BL1 / BL2**
 - Proportional pressure curves
- **HD1 / HD2**
 - Constant pressure curves
- **HS1/HS2/HS3**
 - Constant rotational speed curves.

APPLICATION:

Magi circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system.



TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	
	≤ 85 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 110 °C	0.100 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF110	
Maximum pump surface temperature	≤ 125°C	
Pumped liquid temperature range	2~+110°C	

PARAMETERS

Name	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)	Dimensions						
							L1	L2	B1	B2	H1	H2	G
MAGI 25-40/180	8	4	50	5-22	1½ x 1	180	90	180	52	99	128	156	11/2"
MAGI 25-60/130 MAGI 25-60/180	8	6	55	5-45	1½ x 1	130	65	130	52	99	128	156	11/2"
						180	90	180	52	99	128	156	
MAGI 25-80/180	8	8	90	5-70	1½ x 1	180	90	180	52	99	128	156	11/2"
MAGI 32-80/180	8	8	90	5-70	2 x 1½	180	90	180	52	99	128	156	2"

BETA 2

Energy-saving electronic circulation pumps with A energy-efficiency rating



Energy Efficiency Index for BETA 2 pumps is

$$EEI \leq 0,23$$

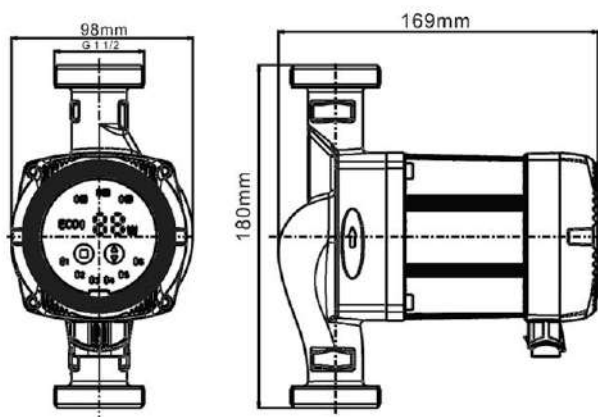
The pumps are designed for forcing circulation in central heating systems and solar systems. The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings. The processor provides 11 operating modes depending on the system requirements. The power consumption is from 1/10 to 1/3 of conventional pumps. The pump is supplied with union joints and power cable.



APPLICATION:

BETA 2 circulation pump is intended for the following systems:

- Constant temperature variable flow heating system
- Variable pipe temperature heating system
- Heating system with night mode
- Air conditioning system
- Industrial circulation system
- Domestic central heating system and domestic hot water system.



TECHNICAL DATA

Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	≤ 85 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 110 °C	0.100 MPa
Compliance with the EMC standard	EN61000-6-1; EN61000-6-3	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF 110	
Maximum pump surface temperature	≤ 125°C	
Pumped liquid temperature range	2~+110°C	

PARAMETERS

MODEL	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)	Weight (kg)
BETA 25-40/180	11	4,5	48	22	1½ x 1	180	3,1
BETA 25-60/130	11	6	55	45	1½ x 1	130	3,1
BETA 25-60/180	11	6	55	45	1½ x 1	180	3,0

OHI

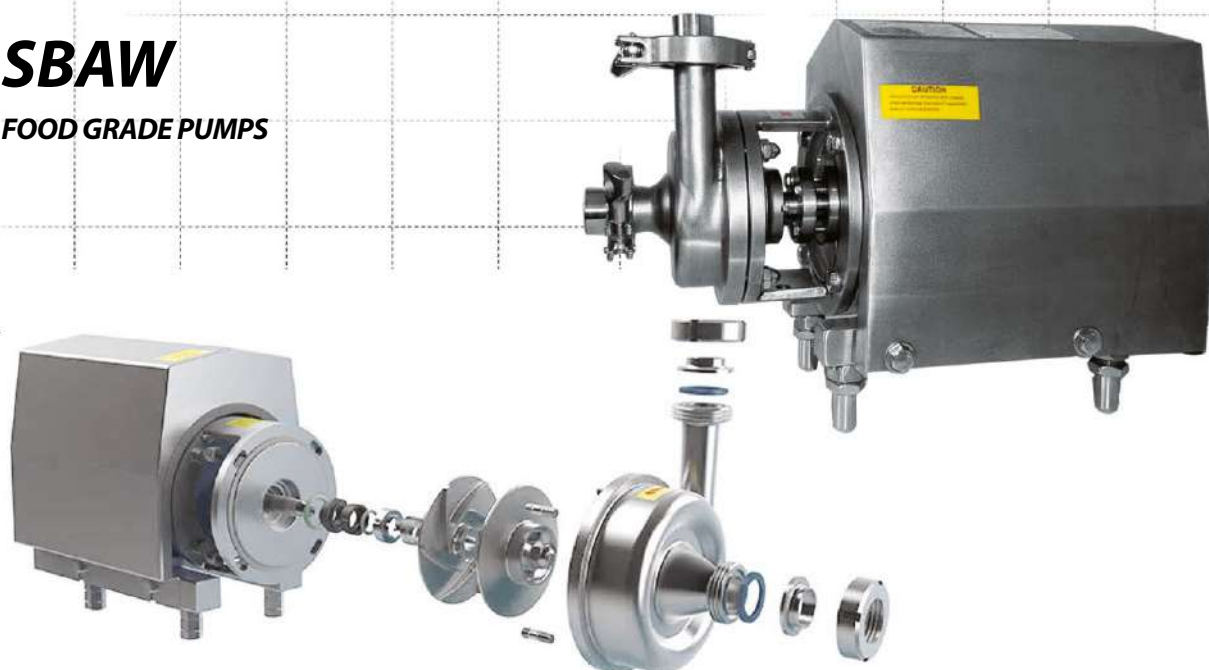


The pumps have 3-speed motors for adjusting operating parameters depending on the user's requirements. The pumps are available with bodies made of bronze or cast iron. Due to the design and high quality materials used, the pumps are very quiet during operation. **All OHI pumps have PZH (National Institute of Hygiene) approval.**

PARAMETERS

Name	Speed level	Head (m)	Flow (l/min)	Motor power (W)	Pump inlet/outlet diameter/ Union joint diameter (inch)	Inlet/outlet spacing (mm)
OHI 15-60/130	1	3	22	46	1 x ¾	130
	2	5	38	63		
	3	6	55	93		
OHI 25-40/130	1	3	18	38	1½ x 1	130
	2	4	36	53		
	3	4,5	48	71		
OHI 25-40/180	1	3	18	38	1½ x 1	180
	2	4	36	53		
	3	4,5	48	71		
OHI 25-60/130 OHI 25-60/180	1	3	22	46	1½ x 1	130 180
	2	5	38	63		
	3	6	55	93		
OHI 25-80/180	1	6,5	43	150	1½ x 1	130
	2	7,5	103	220		
	3	8	160	270		
OHI 32-60/180	1	3	22	46	2 x 1¼	180
	2	5	38	63		
	3	6	55	93		
OHI 32-80/180	1	6,5	43	150	2 x 1¼	180
	2	7,5	103	220		
	3	8	160	270		

SBAW FOOD GRADE PUMPS



Pumps designed for transporting concentrated or non-concentrated food liquids with up to 50% dry matter content or other food products with a temperature up to 75°C. Centrifugal pumps with open impeller, enclosed motor, and distanced hydraulic body. Inlet/outlet are complete with connections for easy installation. The device has four adjustable legs. SIC/WC (EPDM) mechanical seal. VMQ body seal/

APPLICATION:

- dairy production sector (fresh and pasteurized milk, whey, ice mixtures),
- fruit processing (nectar juices, clarified juices, fruit and vegetable drinks, wines and fruit liquors),
- alcohol production (mashes, spirits),
- transport of cleaning liquids in CIP systems.

Certificate of Health Quality has been issued for the device by
THE NATIONAL INSTITUTE OF PUBLIC HEALTH – NATIONAL INSTITUTE OF HYGIENE - FOOD SAFETY DEPARTMENT (PZH).

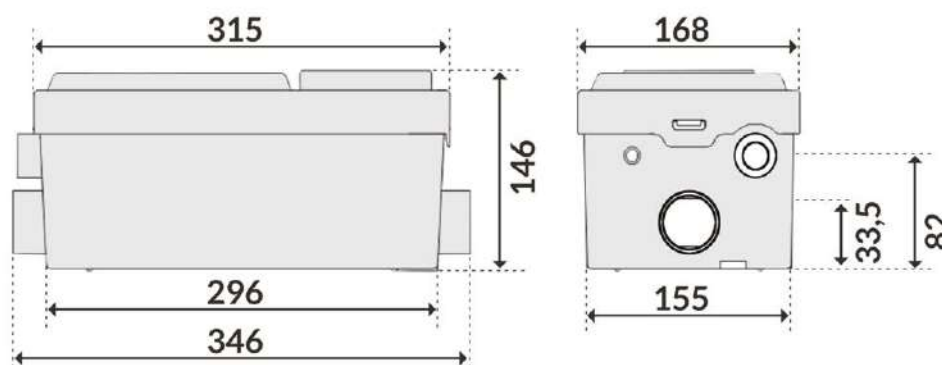
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Wlot/wylot (mm)
SBAW 1 - 10	10	120	370	32/25
SBAW 15 - 24	24	250	2200	50/38

Models available on request subject to arrangements with the sales department

Name	Motor power (W)	Max Head (m)	Max wydajność (m ³ /h)	Wlot/wylot (mm)
SBAW 3 - 16	750	18	3	38/32
SBAW 5 - 24	1500	24	5	38/38
SBAW 5 - 32	2200	32	5	38/38
SBAW 10 - 36	3000	36	10	50/40
SBAW 15 - 24	2200	24	15	50/50
SBAW 20 - 24	3000	24	20	50/50
SBAW 20 - 25	4000	25	20	50/50
SBAW 30 - 25	5500	25	30	50/50
SBAW 20 - 36	5500	36	20	50/50
SBAW 40 - 24	5500	24	40	65/50
SBAW 40 - 24	5500	24	40	80/65
SBAW 30 - 36	7500	36	30	65/50
SBAW 40 - 36	7500	36	40	80/65
SBAW 80 - 30	15000	30	80	100/100
SBAW 80 - 40	18500	40	80	100/100

SANIBO MINI



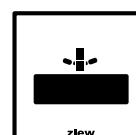
Sanibo mini is a sanitary pump designed for bathrooms and kitchens. The pumping station has one of the most advanced and reliable design available on the market. The pump is fully automatic and intended for use in bathrooms to drain water from wash basins, shower cabins or from washing machines or sinks installed in kitchens. The pump will automatically start when the liquid level is 55mm and stop when it falls to 25mm. It is an excellent solution for bathrooms where the wash basins or shower bases are installed outside the stack and riser or below the sewage discharge level. Bathtubs, washing machines, wash basins, shower bases, sinks, and even bidets can be connected to the pumping station. Its compact size and low-noise makes the pump operation discreet and suitable for installation e.g. in under-sink cabinets. The pump has two inlets for connecting for example shower base and sink.

The pump is supplied with:

- End plugs: 40mm
- 28mm/32mm elbow non-return valve
- Stainless steel clamping rings

Application:

Domestic premises without technical means to connect sanitary facilities to gravity sanitary sewage system - basements, attics and other rooms converted for sanitary purposes.

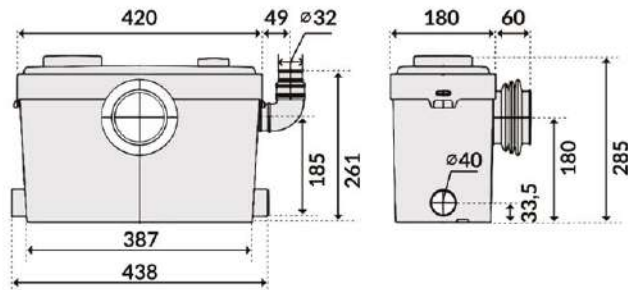


Brak tłumaczenia piktogramów

PARAMETERS

Name	Head (m)	Flow (l/min)	Voltage (V)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)	Max. temperature (°C)	Liquid PH
AQUASAN MINI	6,5	100	230	300	35/15/16	4,5	45	4-10

SANIBO 5



Bathroom sewage pumping station. Many years of experience allowed us to design a top quality device for a wide range of applications. The main application of the pump is to remove sewage from toilets, however use of three inlets allows to collect sewage from, e.g. bath, washing machine and toilet - one main 100 mm inlet for toilets, 40mm for shower bases or wash basins, and one 40mm outlet. The pump is exceptionally quiet so it is an ideal solution for domestic applications. SANIBO 5 is equipped with end caps to cover unused inlets. The pump can also be used in kitchens or laundry rooms, without connecting to the toilet. It has a float switch for automatic pump control - the pump automatically stops after filling the device. Additionally, the pump can be started manually. An additional advantage of the device is the ability to pump liquids of up to 40°C (short-term 60°C) for up to 2 minutes. Due to the 9.5 metre head vertically and 100 metre horizontally, there is no need for gravity sewage disposal. Its operating cycle is approx. 8 seconds. Sanibo 5, as the only branded pump available on the market has stainless steel motor housing, strainer and cutting system providing for guaranteed reliability, and a powerful pump motor is provided with built-in thermal protection. The device is designed according to the most demanding European standards.

The set includes:

- WC pumps with cutting system
- End caps: x 2 (40mm), x 1 (100mm).
- Non-return valves x 1
- Clamping rings x 8

ZOBACZ DZIAŁANIE I BUDOWĘ POMPY NA:

 <http://bit.ly/sanibo>

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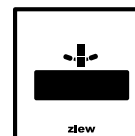
Application:

Domestic premises without technical means to connect sanitary facilities to gravity sanitary sewage system

- basements, attics and other rooms converted for sanitary purposes. Water and sewage pumping in places where toilets, wash basins or shower bases are installed outside the stack and riser or below the sewage discharge level.

Link to the video:

<https://www.youtube.com/watch?v=dofSLSY6tns>



PARAMETERS

Name	Head (m)	Flow (l/min)	Tank capacity (l)	Voltage (V)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)	Max. temp (°C)	Ingress Protection	Liquid PH
SANIBO 5	9,5	150	6	230	600	44x29x24	8,5	40 (60)*	IP 44	4 - 10

M121/M131

Professional pump protections

The M121 and M131 Intelligent Pump Controller is an easy-to-use control and protection device for direct connection of deep well pumps, submersible pumps and surface pumps:

- M-121 for single-phase pumps from 0.75 kW to 2.2 kW (from 1 HP to 3 HP)
- M-131 for 3-phase pumps from 0.75 kW to 4kW (from 1HP to 5 HP)
5.5 kW - 7.5 kW (from 7.5 HP do 10 HP).

CONTROLLER OPERATING FUNCTIONS

- Automatic re-start attempt after emergency stop enforced by one of the protection functions. Different self-activation timers for different emergency conditions.
- Possibility to calibrate the controller and change its calibration to match the pump parameters.
- Activating and deactivating the pump depending on:
 - water levels in the tank from which water is pumped,
 - water levels in the tank to which water is pumped,
 - pressure in the tank to which water is pumped.
- Manual or automatic operating mode.



IMAGE: M31

CONTROLLER PROTECTION FUNCTIONS

- Double dry run protection by means of:
 - Liquid level probes/ sensors
 - Analysis of current consumption during pump operation
- Overload protection
- Phase failure protection (M31)
- Voltage drop protection
- Voltage surge protection
- High voltage protection
- Short circuit protection
- Overvoltage protection

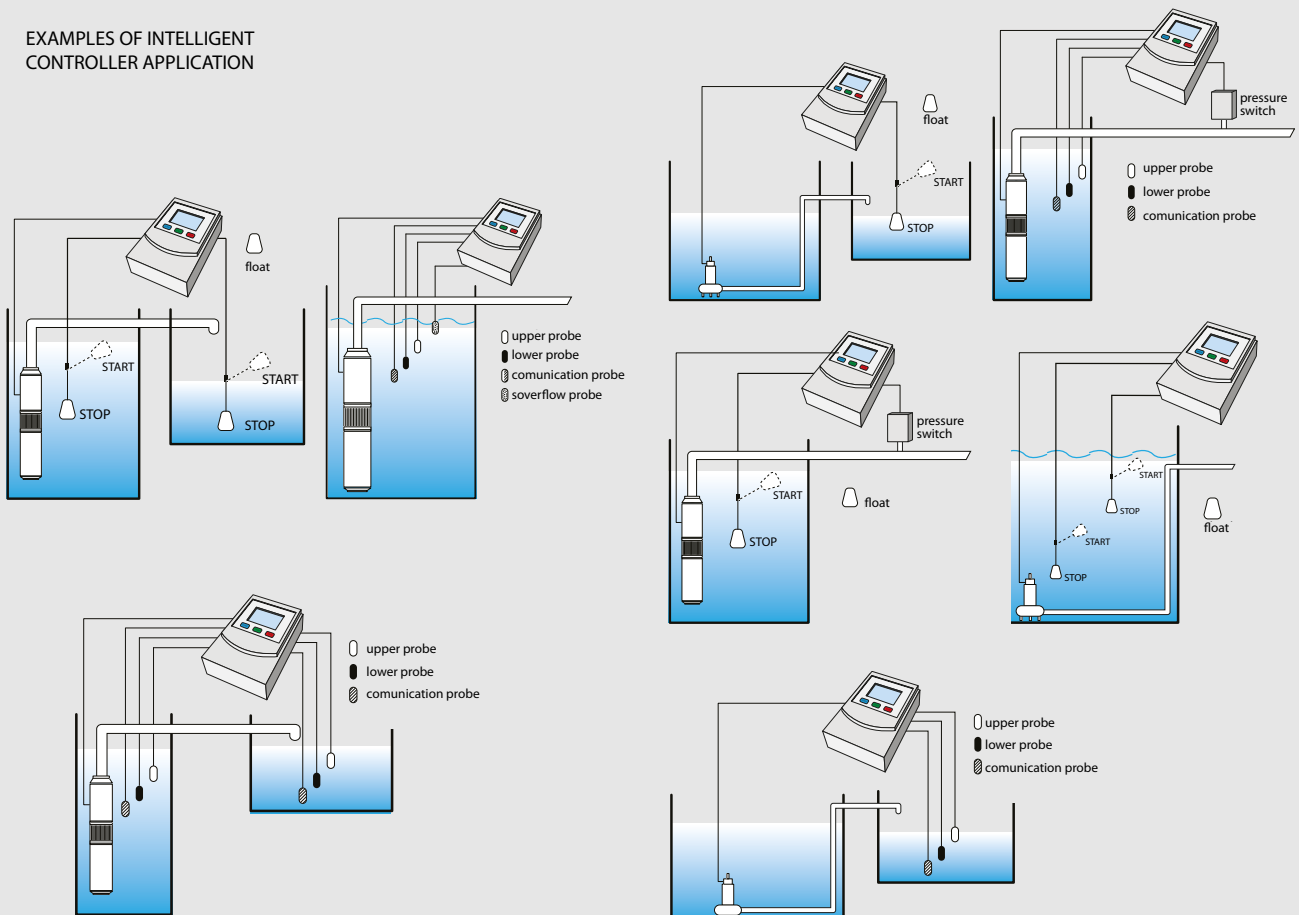
M21/M31

OPTIONS:

In addition to the M121 and M131 controller, M-21 and M-31 controllers are available with additional features, such as:

- Displaying of total pump operation time
- Displaying history of the last five failures when the protections have been activated
- Dynamic LCD screen displaying the current status of the pump.

EXAMPLES OF INTELLIGENT CONTROLLER APPLICATION



IBOPRESS 10

Electronic pressure switch with overload and dry running protection.

IBOPRESS 10 is a device designed to control the operation of all types of pumps depending on the system pressure. It starts or stops the pump depending on the pressure.

IBOPRESS 10 is a modern electronic controller based on a ceramic pressure sensor.

Cut-in and cut-out pressure can be programmed with the device.

IBOPRESS 10 provides protection features - it allows to set the maximum permissible current draw of the pump and protects the pump against dry running.

After an emergency stop, the device can automatically resume its operation after the set timer.

The IBOPRESS switch is supplied with a cable and a mains plug, and a second cable with an electric socket, for hassle-free connection to the electric pump's power supply.

Due to the high measurement accuracy, the device can be installed in systems where constant, unchanging operating conditions are required.

Due to its stainless steel design, the IBOPRESS 10 switch is protected against corrosion and mechanical damage, and the measurement and operation is very precise.



<i>Pressure range in controlled system</i>	0-10 Bar
<i>Reading accuracy</i>	0,01 Bar
<i>Units display depending on user choice</i>	Bar, kg/cm ² , PSI
<i>Inlet/outlet</i>	1/4"
<i>Measured medium max. temperature</i>	85oC
<i>Max. ambient temperature</i>	40oC
<i>Supply voltage</i>	Single-phase AC 60/60 Hz
<i>Supply voltage</i>	220-240V
<i>Connected pump max. power</i>	1,5 kW
<i>Max. current draw</i>	10A
<i>Ingress Protection</i>	IP 55
<i>Protections</i>	Dry run protection
	Stalled motor overload protection
	Low flow protection - when the pump does not reach the set cut-out pressure and runs for more than 30 minutes, its stop function can be activated.
	Hydraulic shock protection - so-called soft stop
<i>Display</i>	Colour, LCD
<i>Life-span</i>	1 000 000 cycles



DIG-IBO 1



HYDRO-BLOCK (SK-13)

DIG-IBO 1

Intelligent pressure switch for pump operation control. DIG - IBO is an electronic device with two main functions:

- PUMP OPERATION CONTROL (cut-in and cut-out pressure can be set from an electronic display panel)
- DRY RUN PROTECTION AGAINST (if the function is active and the pump operates without water for more than 20 seconds, the device will stop the pump. Dry run protection is active by default - if for any reason, the user does not want to leave this function active, it can be disabled by pressing and holding buttons 2 and 4 together for 3 seconds - "F0" (function disabled) or F1 (function enabled by default) will be displayed on the panel. If no operation is performed within 3 seconds, data will be automatically saved and the device will return to the operating mode.

The controller activates the pump when water pressure in the water system drops below the minimum pressure set on the display, and water starts flowing in the pipe on which the controller is installed. When no flow is detected by the controller, the pump will be stopped.

TECHNICAL DATA

- Operating range 0-10 bar
- Supply voltage: 230V, 50Hz
- Ingress Protection: IP66
- Maximum pump power: 1.5kW
- Maximum water temperature: 80 °C

Cut-out pressure setting - H Cut-in pressure setting - L

Use the buttons (arrow) to set the limit, the up arrow - to increase, the down arrow - to decrease. When finished, the switch will save the settings automatically and return to the operating mode.

HYDRO-BLOCK (SK-13)

Devices protecting the pump against damage caused by dry running. The device will automatically stop the pump if the water pressure in the system drops below the cut-out level - 0.7 bar. The device has the RESET button. The pump is first activated by pressing the RESET button. When the system pressure exceeds 1.1 bar, the device will start operating in automatic mode. The device should operate in water supply systems with a pressure tank. The device can be directly connected to single-phase motor pumps. It can be connected three-phase motor pumps via a contactor. The device is suitable for surface pumps only. Warning!!! The HYDRO-BLOCK pressure controller cannot be used instead of a pressure switch.

AUTOMATIC PUMP CONTROLLERS



PC-13



PC-15



PC-59

PC-13

The PC-13 automatic pump controller provides start and stop control functions. The automatic pump controller starts the pump when water pressure in the water system drops below the minimum pressure set on the automatic pump controller, and when water starts flowing in the pipe on which the PC-13 is installed. The controller stops when water flow in the pipe on which the PC controller is installed is stopped. The controller starts the pump when a tap or sprinklers are opened, and stops the pump when they are closed. The controller has a dry-run protection function (pump operation without water). If no water is detected, the controller will stop the pump to protect it against damage. The controller can be connected directly to pumps with motor electrical demand not greater than 10 A (16 A at starting). The controller protects the system against flooding resulting from minor leaks. Leaks cause pressure drops in the system, but the controller will not start because it does not detect water flow (with small leaks, the water flow is insignificant). The device is supplied with a 1 m long cable with a plug and a 60 cm long cable with a socket.

PC-15

Automatic pump controller for up to 1300 W surface and deep well pumps. It can be used instead of a pressure switch and pressure tank. When the tap is opened, a signal is sent to the PC-15 controller and it starts the pump. When the tap is closed, the PC-15 controller stops the pump. The automatic pump controller can operate with single-phase pumps with current draw not exceeding 10A during operation. The device is supplied with dry run protection. When no water is detected in the well, the device will stop the pump. The device is equipped with a 60 cm long cable for connection with the pump and a 1 m long power cable with a plug. The PC-15 automatic pump controller is equipped with 1" inlet and outlet.

PC-59

The PC-59 controller is an electronic device for pump control. It controls the pump operation by monitoring pressure changes in the pipeline and the water flow through the pipeline. With user-adjustable cut-in and cut-out pressure, the device can be used instead of traditional pressure switches. It also protects against dry running. A built-in non-return valve prevents water backflow to the pump. The pressure gauge with marked cut-in and cut-out pressure levels provides accurate and easy adjustment of the device according to user requirements. The device can operate with and without a pressure tank. The PC-59 automatic pump controller is equipped with 1" inlet and outlet. The device is supplied with a 60 cm long cable for connection with the pump and a 1 m long power cable with a plug.

PC-59	PC-15P	PC-13	Functions / Construction Characteristics:	Technical Data:
X	X	X	Inlet (suction) connection: 1"	<ul style="list-style-type: none"> • Power supply voltage ~ 220/240V • Protection class: IP 65 • Maximum water temperature: 40oC • Cut-in pressure: 1.5 - 3 bar • Maximum permissible pressure in the system 10 bar • Maximum current 16(10) A
X	X	X	Outlet (pressure) connection: 1"	
X	X	X	Built-in check valve	
X	X	X	Dry-running protection system	
X	X	X	Built-in pressure gauge	
X	X	X	Manual start button - RESET	
X	X	X	POWER ON LED	
X	X	X	Pump operation ON LED	
X	X		Pump failure LED	
X			Operation with pressure tank	
			Automatic restart	

AUTOMATIC PUMP CONTROLLERS



SK-15

SK-15

Automatic pump controller for surface and deep well pumps. It can be used instead of a pressure switch and pressure tank. When the tap is opened, a signal is sent to the SK-15 controller and it starts the pump. When the tap is closed, the SK-15 controller stops the pump. The automatic pump controller can operate with up to 1300 W single-phase pumps with current draw not exceeding 10A during operation. The device is supplied with dry run protection. When no water is detected in the well, the device will stop the pump. The SK-15 automatic pump controller is equipped with 1" inlet and outlet. The device is supplied with a 1 m long cable with a plug and a 60 cm cable with a socket.



PC-10P

PC-10P

Automatic pump controller for surface and deep well pumps. It can be used instead of a pressure switch and pressure tank. When the tap is opened, a signal is sent to the PC-10P controller and it starts the pump. When the tap is closed, the PC-10P controller stops the pump. Compared to the other device, this automatic pump controller can operate with up to 2200 W single-phase pumps with current draw not exceeding 16 A during operation. The device is supplied with dry run protection. When no water is detected in the well, the device will stop the pump. The PC-10P automatic pump controller is equipped with 1" inlet and outlet. The device is supplied with a 1 m long power cable with a plug and a 60 cm long cable with a socket for connection with the pump.



PC-16

PC-16

Automatic pump controller for surface and deep well pumps. It can be used instead of a pressure switch and pressure tank. When the tap is opened, a signal is sent to the PC-16 controller and it starts the pump. When the tap is closed, the PC-16 controller stops the pump. The automatic pump controller can operate with up to 1300 W single-phase pumps with current draw not exceeding 10A during operation. The device is supplied with dry run protection. When no water is detected in the well the device will stop the pump. Compared to other controllers, the PC-16 has the restart function. The PC-16 has an automatic restart function. The device makes attempt to automatically restart the pump after stopping caused by dry running. If no water flows into the well, the device will stop the pump again. The cycle will be repeated several times a day from the first activation of the pump. This solution is best suited for automatic irrigation. Easy-to-install. Supplied with a 1 m long power cable with a plug and a socket for connecting the pump. The PC-16 automatic pump controller is equipped with 1" inlet and outlet.

SK-15	PC-10P	PC-16	Functions / Construction Characteristics:	Technical Data:
X	X	X	Inlet (suction) connection: 1"	<ul style="list-style-type: none"> Power supply voltage ~ 220/240V Protection class: IP 65 Maximum water temperature: 40oC Start pressure: 1,5 - 3 bar Maximum operating system pressure: 10 bar Max. current draw for SK-15 i PC-16: 16(10)A Max. current draw for PC-10P: 16A
X	X	X	Outlet (pressure) connection: 1"	
X	X	X	Built-in check valve	
X	X	X	Dry-running protection system	
X		X	Built-in pressure gauge	
X	X	X	Manual start button - RESET	
X	X	X	POWER ON LED	
X	X	X	Pump operation ON LED	
X	X	X	Pump failure LED	
			Operation with pressure tank	
		X	Automatic restart	