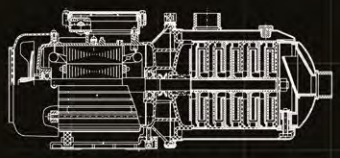
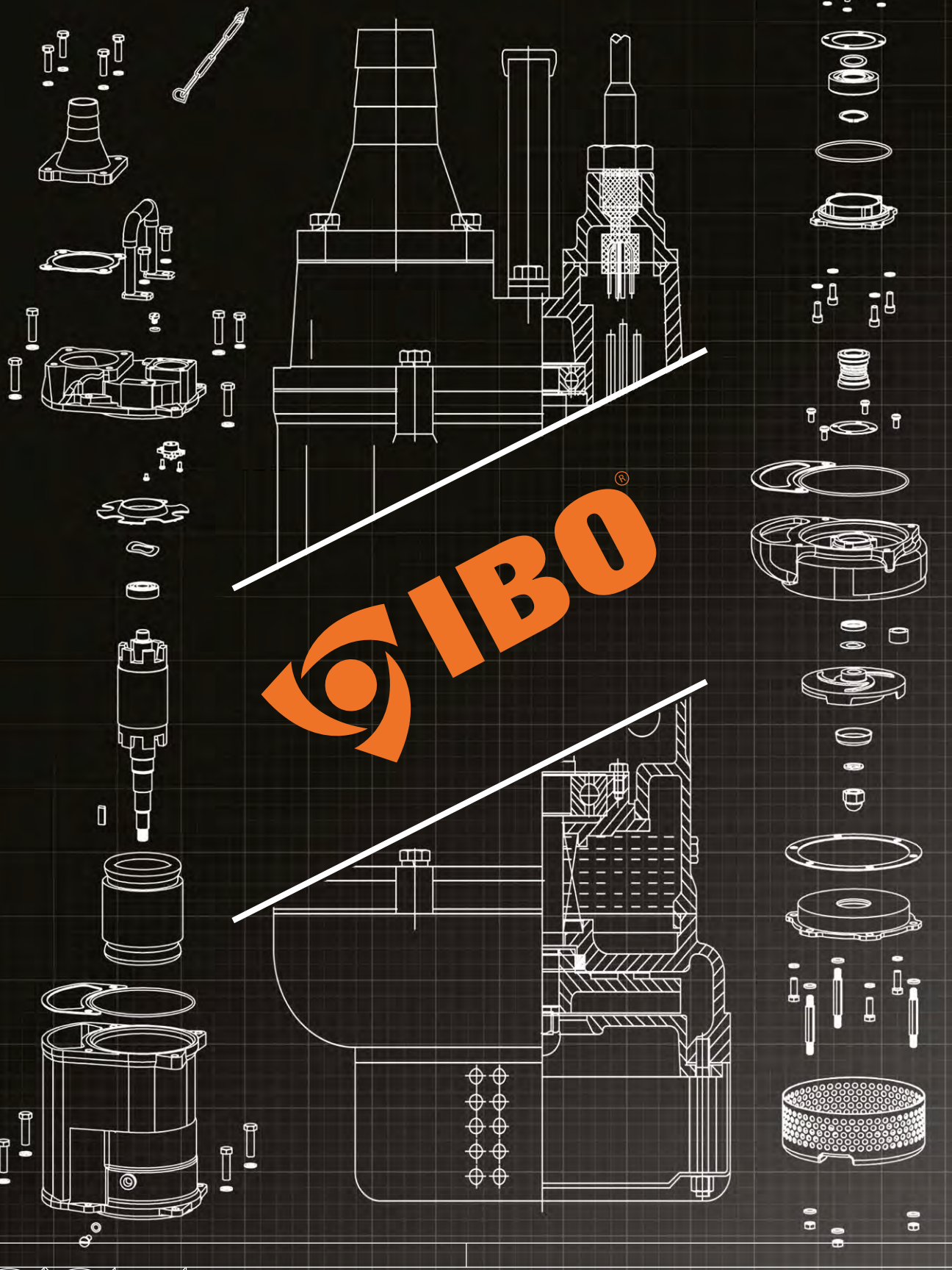
PRODUCT **CATALOGUE**

PUMPS, MOTORS, BOOSTER SETS, INVERTERS, CONTROLLERS





WWW.IBOPOMPEN.NL

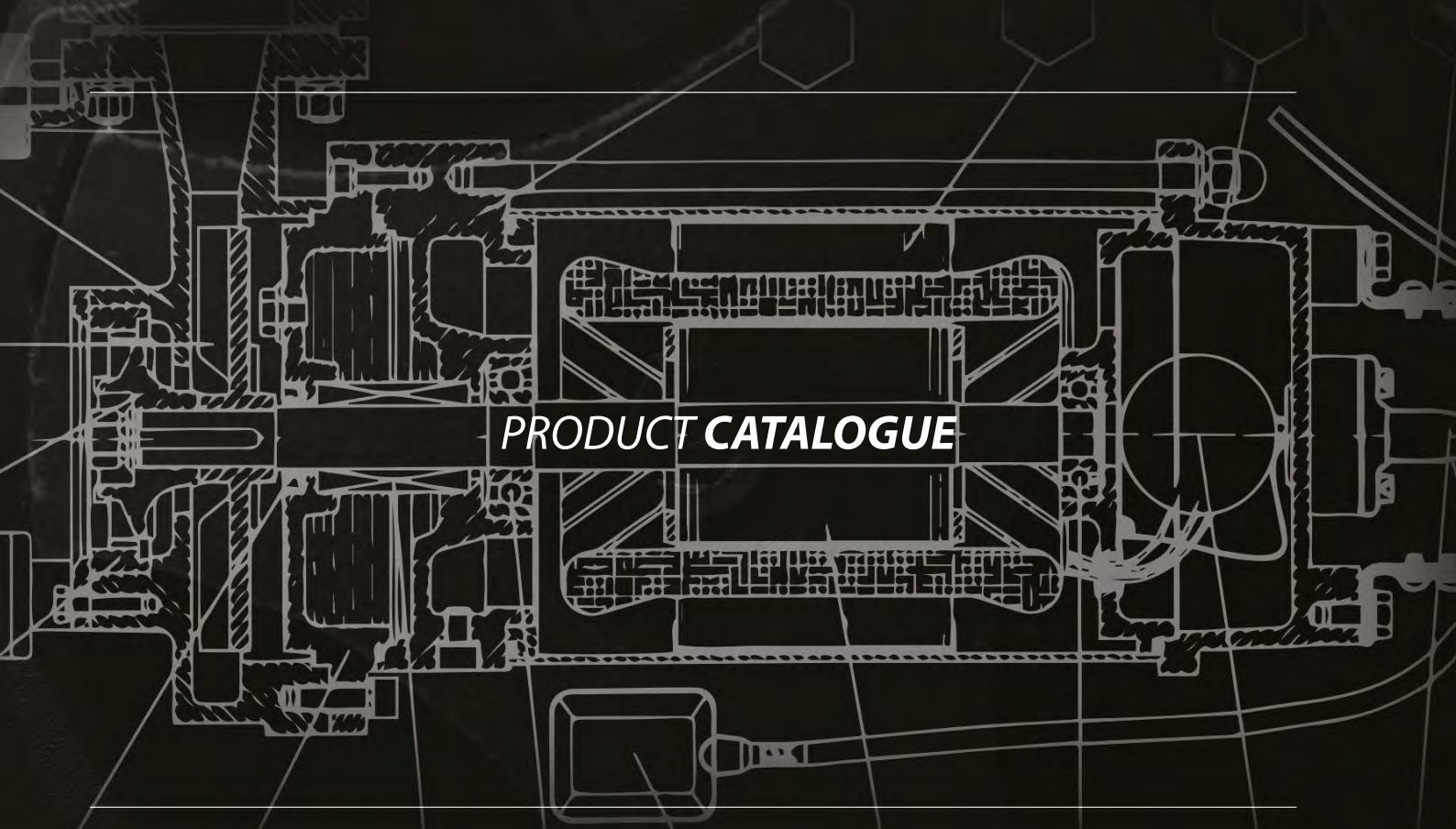
DAMBAT IS A DYNAMICALLY DEVELOPING POLISH MANUFACTURER OF WATER PUMPS AND FITTINGS SOLD UNDER IBO BRAND.

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 POMPEN

IN 'T HOF Bathmen
TEL.: +31 570 24 40 45
E-MAIL: info@inthofbathmen.nl

www.ibopompen.nl

TABLE OF CONTENTS:

About us 2
Table of contents. . . . . 3 - 4

SURFACE PUMPS

AJ 50/60 6
BJ 45/75 7
WZI 8
QB 60/80 8
JET 100A 9
JET 100 LONG 9
JSW 10
DP 11
PJ 65/45 12
GARDEN 12
MULTI 1300 INOX 13
MULTI - GARDEN 13
MHI 14
MH. 15
BJ 40/55 16
IWH2-03 17
HP INOX 18

SWIMMING POOL PUMPS

SWIM 20
JA 50 21
FON 22

BOOSTER SETS

HYDROPHORES . . . . . 23 - 28

INVERTERS

AUTOIBO 30
HOME 1 31
INVERTER SYSTEM - IVR02 32
INVERTER SYSTEM - IVR-10 34
INVERTER SYSTEM - IVR09T 36
MULTI SET - IVR02 38
MULTI SET - IVR09/11 39

MANIFOLDS

2-PUMP DELIVERY SIDE MANIFOLD 40
2-PUMP SUCTION SIDE MANIFOLD 40
SUCTION SIDE MANIFOLD FOR 3-PUMP SETS 41
DELIVERY SIDE MANIFOLD FOR 2-PUMP SETS 41
DELIVERY SIDE MANIFOLD FOR 3-PUMP GROUP 41
PUMP GROUP BASE PLATE 42

INDUSTRIAL PUMPS

CPM INOX 44
F- CPM / PMC INOX . . . . . 45 - 46
MCI . . . . . 47 - 59
VMH. . . . . 60 - 61
CV, CVF, CVL . . . . . 62 - 79
COLP 80

SUBMERSIBLE PUMPS

IP/IP INOX 82
IPE/IPK 83
IPC550 84
NEMO/ VM60 85
MULTI IP 800 INOX 86
MULTI IP AUTO 86
MULTI IP INOX 1200/1200 87
H-SWQ 88
SWQ. 89
F-SWQ 89
WQX 90
MAGNUM 91
WQF. 92
SN-450 93
SWQ SEPTIC. 94
BIG 95
SWQ 1500 PRO. 96
WQ 1500 PRO 97
WQ PROFESSIONAL 98

PUMPS WITH CUTTING SYSTEM

CTR 100
FURITATKA 101
V 102
SWQ. 103
WQI 104
KRAKEN 105
KRAKEN 1800 106
KRAKEN 1800 DF 107
UP 60/80. 108
UP-H 109
ZWQ 110-111
MWQ 112-113
GUIDE RAIL SYSTEM 114
KBFU 115-117
AREAT 118

DEEP WELL PUMPS

2" STING 120
3" SQIBO / 3"SCR / 3,5"SCR 121
GSK 4-16 / GSK 6-16 122
3" SKM / 4"SKM 123
OLA INOX / OLA AUTO 124
2,5" STM 125
3"TI 126
3" SDM 127
3" STM 128
3" ISPM 129
3,5" SCM / 3,5" SC 130
3,5" SDM 131
4"SD / 4"SDM. . . . . 132 - 136
4" ISP / 4" ISPM . . . . . 137 - 139
3" IBQ / 4"IBQ. . . . . 140 - 144
5" SD 145
6" SD . . . . . 146 - 147
6" ISP . . . . . 148 - 149

ITALIAN DEEP WELL PUMPS

IBO ITALY FP4 . . . 151 - 152
IBO ITALY FP4 A . . . 153
IBO ITALY FP4 B . . . 154
IBO ITALY FP4 D . . . 155
IBO ITALY FP4 E . . . 156
IBO ITALY FP4 F . . . 157
IBO ITALY FP4 H . . . 158
IBO ITALY FP4 L . . . 159
IBO ITALY FP4 Q . . . 160
IBO ITALY AP6 . . . 161
IBO ITALY AP6 E . . . 162
IBO ITALY AP6 F . . . 163
IBO ITALY AP6 H . . . 164
IBO ITALY AP6 L . . . 165
IBO ITALY FX"6 / FX"8 / FX"10 . . . 166
IBO ITALY FX"6 . . . 167
IBO ITALY FX"8 . . . 168
FX"8 70 . . . 169
FX"8 90 . . . 169
FX"8 110 . . . 170
FX"8 130 . . . 170
IBO ITALY FX"10 . . . 171
FX"10 150 . . . 172
FX"10 170 . . . 172
FX"10 190 . . . 173
FX"10 210 . . . 173

DEEP WELL MOTORS

SILNIKI IBO 3" / 4" / 6" . . . 175
4"IOM ITALY . . . 176
6"IOM ITALY . . . 177
6"IMW ITALY . . . 178
8"IMW ITALY . . . 179
10"IMW ITALY . . . 180

TANKS

Horizontal pressure tanks . . . 182
Vertical-horizontal pressure tanks with pressure gauge . . . 183
Stainless steel (INOX) horizontal pressure tanks . . . 184
Galvanized tanks . . . 185
IBO ITALY Pressure tanks . . . 186
IBO ITALY Fix membrane tanks . . . 187
CWU IBO ITALY Pressure vessels . . . 188
IBO ITALY Fix membrane pressure vessels . . . 189
CO IBO HEATS Pressure vessels . . . 190

CIRCULATING PUMPS

MAGI . . . 192
MAGI MAX . . . 193
MAGI-H . . . 194
NOVA . . . 195
BETA 2 . . . 196
OHI PRO . . . 197
OHI PRO MAX . . . 198
BETA ECO . . . 199
OHI / OHI PLUS+ . . . 200
OHI MAX . . . 201
STEROWNIK S-100 . . . 202
STEROWNIK S-130 . . . 203
NOVA-PG FOR GAS BOILERS . . . 204
W15-IH10 . . . 206
BETA BR / OHI BR CIRCULATING PUMPS . . . 207
CPI 15-15 . . . 208
E-IBO 15-14 . . . 209
IPML . . . 210

SPECIAL PUMPS

PR–50 . . . 213
PR – AUTO . . . 214
OIL PUMPS / AOP SETS . . . 215
PRO/PRN . . . 216
BZP/H-BZP . . . 217
GREEN / DECORATIVE ABYSSINIAN PUMP . . . 218
SBAW - FOOD GRADE PUMPS . . . 219

SANITARY PUMPS

CONIBO / CONAQUA . . . 221
AQUASAN MINI . . . 222
SANIBO MINI . . . 223
AQUASAN PRO . . . 224
SANIBO1 . . . 225
SANIBO4 . . . 226
SANIBO5 . . . 227

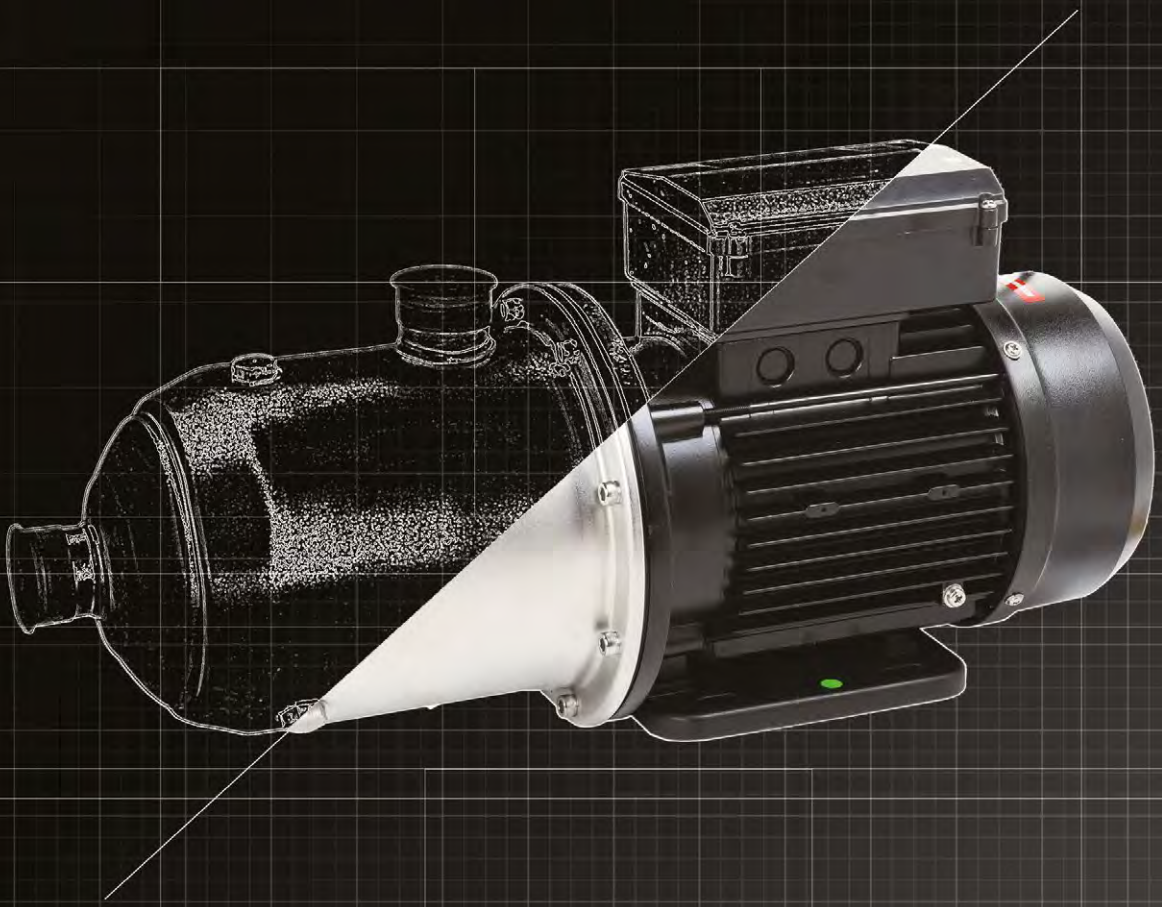
CONTROLLERS / PROTECTIONS

M121 / M131 . . . 229
IBOPRESS 10 . . . 230
DIG-IBO / HYDRO BLOCK . . . 231
AUTOMATIC PUMP CONTROLLERS . . . 232 - 233
PRESSURE SWITCHES . . . 234
ASSEMBLY ADHESIVE FOR FITTINGS . . . 235
FLOAT SWITCHES MEMBRANES . . . 235
FLANGES . . . 235
FAST CONNECTIONS / COUPLINGS . . . 235
CONTROL BOXES . . . 235
FILTERS - HOUSINGS / CARTRIDGES . . . 236
SAND FILTERS . . . 237
UV STERILIZERS . . . 238

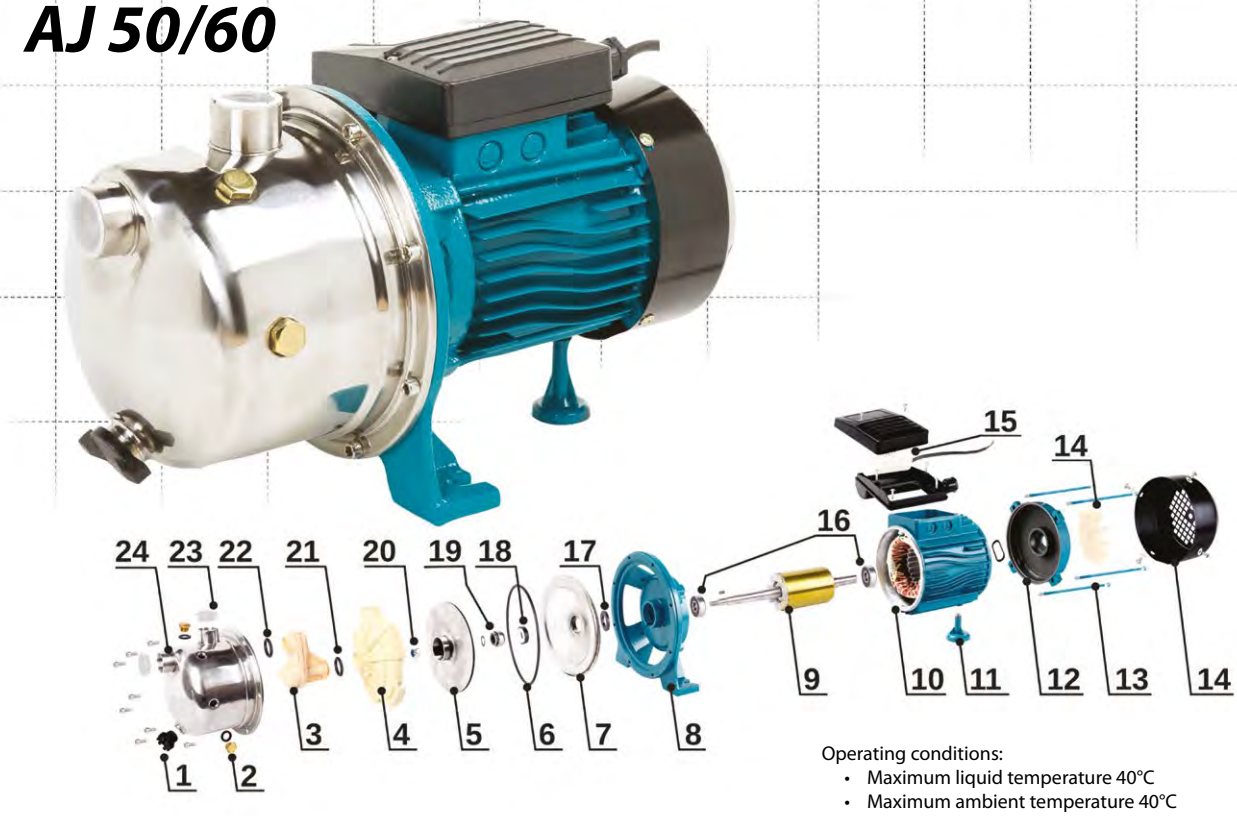
WELL PRODUCT RANGE

CABLE CONNECTION . . . 240
WELL ROPE . . . 240
WELL TOP COVERS . . . 241
WELL COUPLING . . . 242
CENTRALIZER . . . 242
PRESSURE REGULATORS . . . 243
NON-RETURN VALVES . . . 243
CENTRAL HEATING VALVES / OUTLETS . . . 243
PRESSURE GAUGES . . . 243
ELECTRICAL CABLES . . . 244
ANTI-VIBRATION HOSES/CONNECTORS . . . 245
SUCTION HOSES - REINFORCED . . . 246
SUCTION HOSES - HELIX . . . 247
DISCHARGE HOSES . . . 248
SWIMMING POOL HOSES . . . 249
USEFUL INFORMATION . . . 250 - 252
USEFUL INFORMATION . . . 252 - 258

SURFACE PUMPS
OBERFLÄCHENPUMPEN
POVRCHOVÁ ČERPADLA
POMPE DE SUPRAFAȚĂ
ПОВЕРХНОСТНЫЕ НАСОСЫ



AJ 50/60

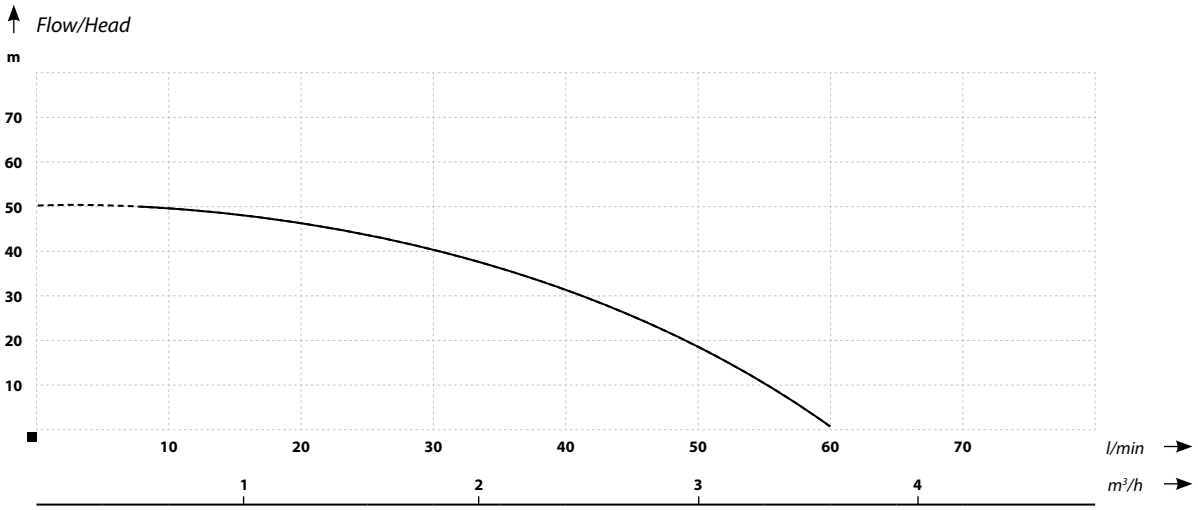


Single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity, designed for pumping of clean cold water from own intakes and
for increasing pressure. Sections of pump body and shaft that come in contact with water are made of stainless steel (INOX 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

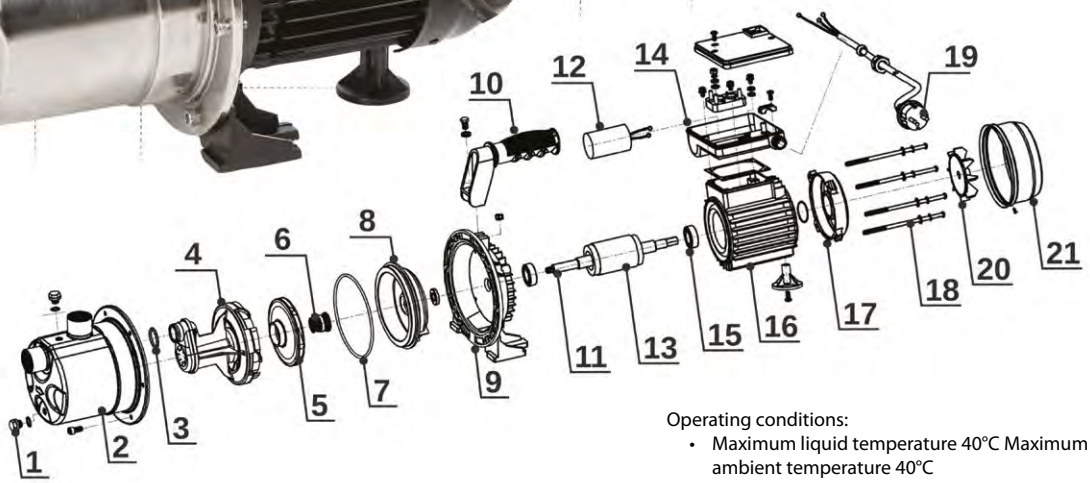


PARAMETERS

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

BJ 45/75





The pump for pumping of clean cold water from own intakes and for increasing pressure. BJ 45/75 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 coming in contact with water are made of stainless steel (INOX design). 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.

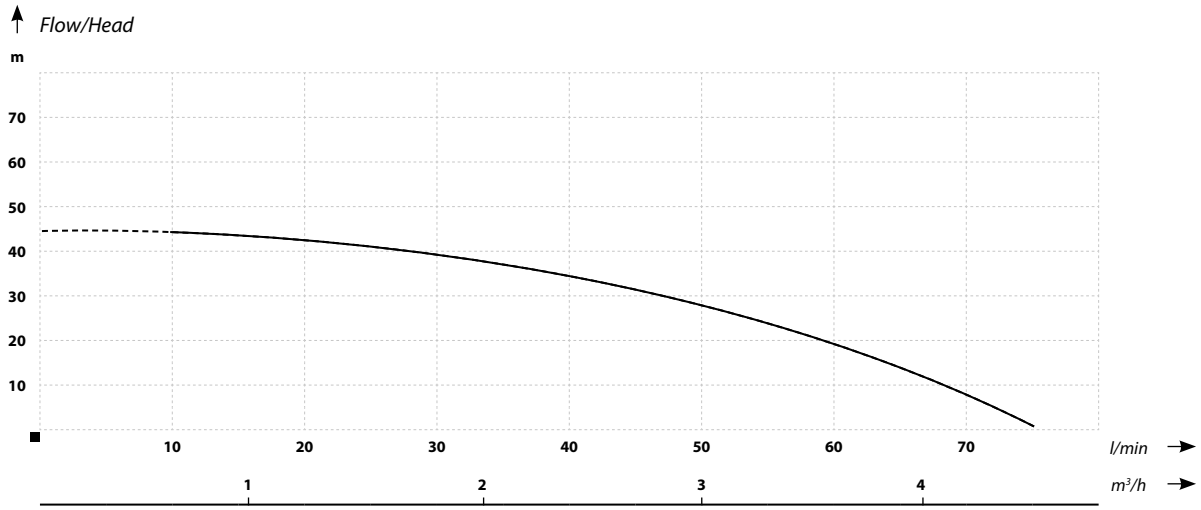
APPLICATION:
Supply of water to houses, holiday houses, allotments and gardens. When combined with pressure tanks, the pumps can be used for single- and multi-family residential housing and in industrial applications.

Operating conditions:

- Maximum liquid temperature 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
- Pump end plate / Frame:
- stainless steel AISI 304/cast iron/aluminium 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 (cale)	Dimensions L/H/W (cm)	Weight (kg)
BJ 45/75	45	75	1100	230	8	3,9	1¼ x 1	36/25/18	8,5

WZI / QB

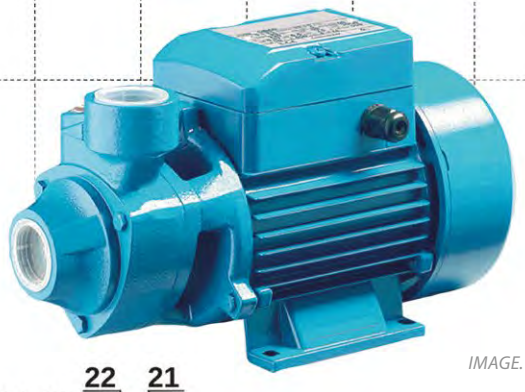
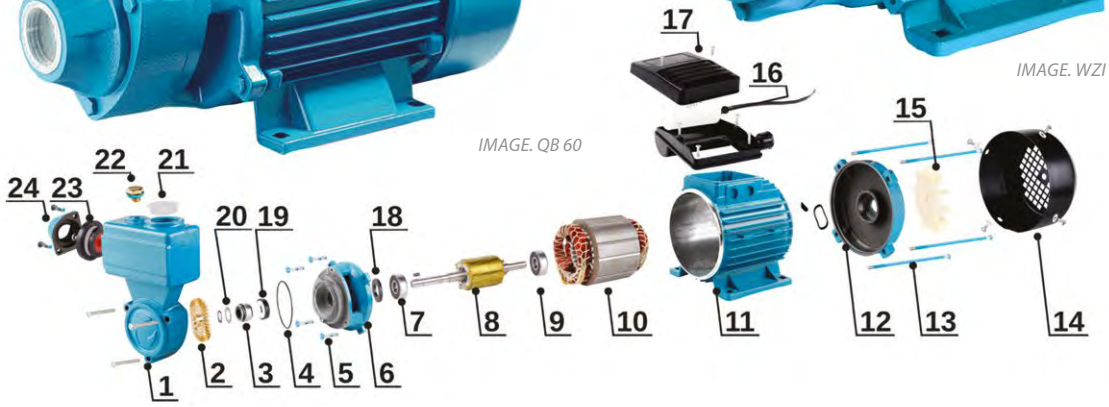


IMAGE. QB 60



IMAGE. WZI 750

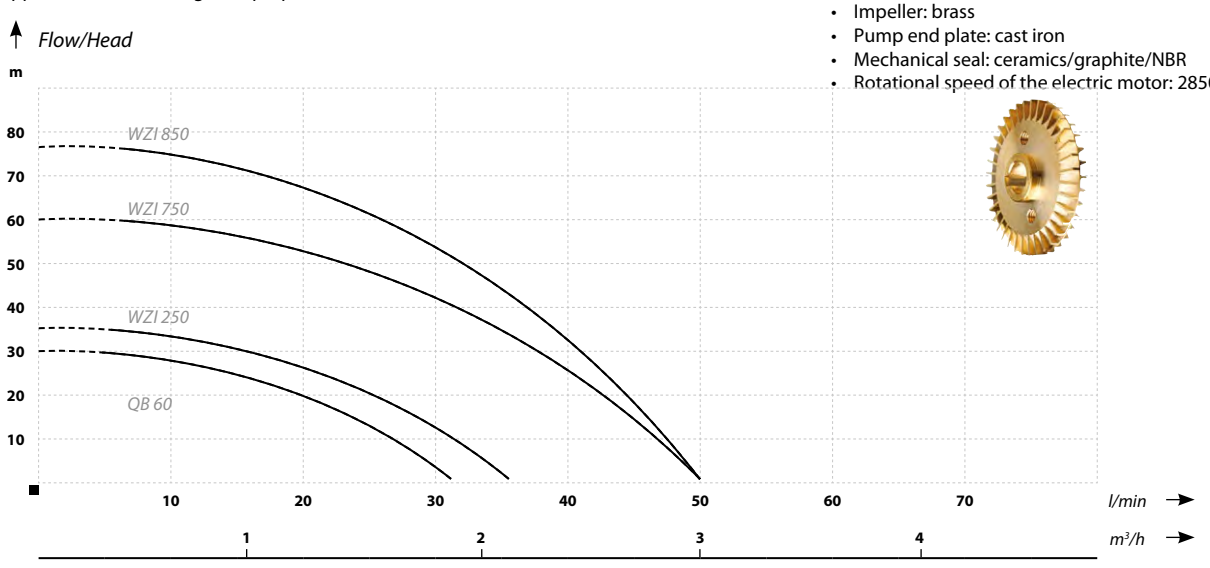


Single-stage self-priming peripheral surface pumps for pumping of clean cold water from own intakes and for increasing pressure. Pump impellers are made of brass. The pump body is made of durable cast iron with the built-in non-return valve. The pump motor is provided with thermal protection.
The pumps have a power cable with a plug.

APPLICATION:
Supply of water to holiday houses, allotments and 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: brass
- Pump end plate: cast iron
- 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)
QB 60	30	32	370	230	6	2,8	1 x 1	21/17/17	4
WZI 250	35	35	250	230	8	1,6	1 x 1	25/21/16	7,5
WZI 750	60	50	750	230	8	5	1 x 1	26/21/18	9,3
WZI 850	78	50	850	230	8	4	1 x 1	28/23/19	10,8

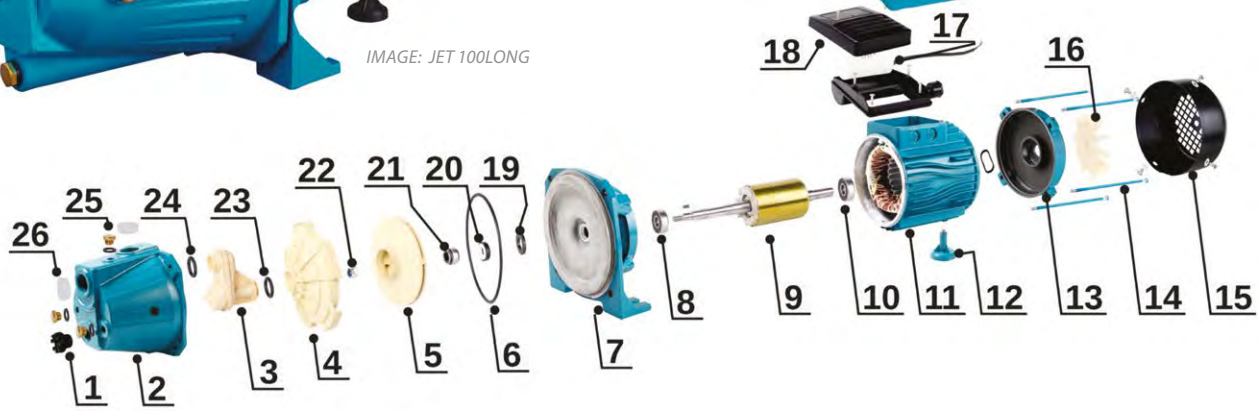
JET 100A / JET 100L



IMAGE: JET 100LONG



IMAGE: JET 100A

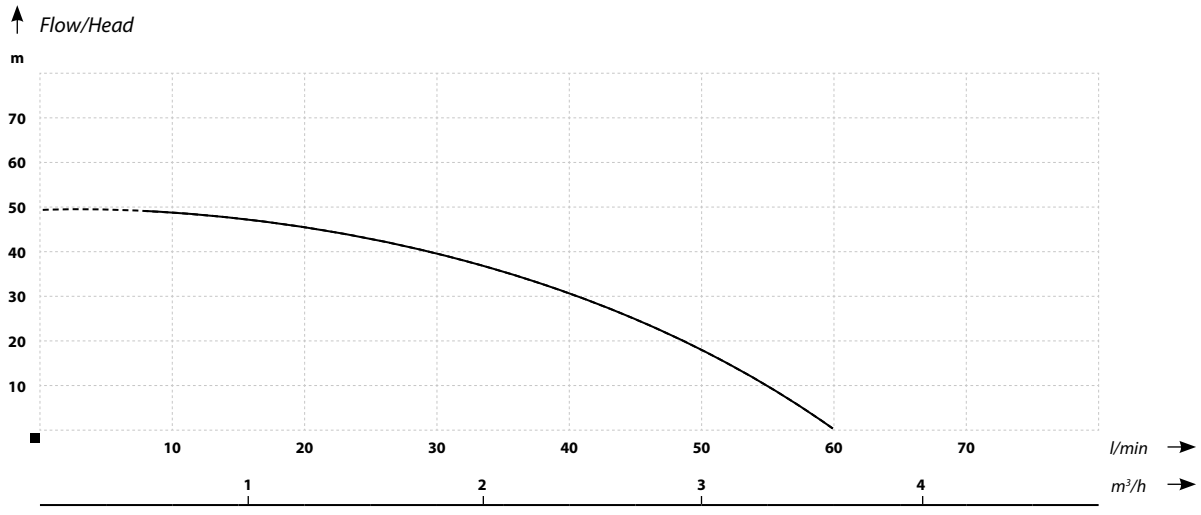


Single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity, designed for pumping of clean cold water from own intakes and for increasing pressure. The pump body is made of durable cast iron, and the pump motor is provided with thermal protection. The pump has a power cable with a plug. The pump is available with accessories or
in the booster set.

APPLICATION:
Supply of water to houses, holiday houses, allotments and 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

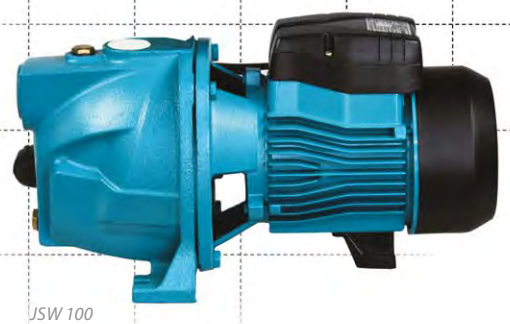
Materials:
- Housing: cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Pump end plate / Frame: cast iron
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



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)
JET 100A	50	60	1100	230	8	3,2	1x1	39/20/18	11,5
JET 100A LONG	50	60	1100	230	8	3,6	1x1	44/21/18	12,5

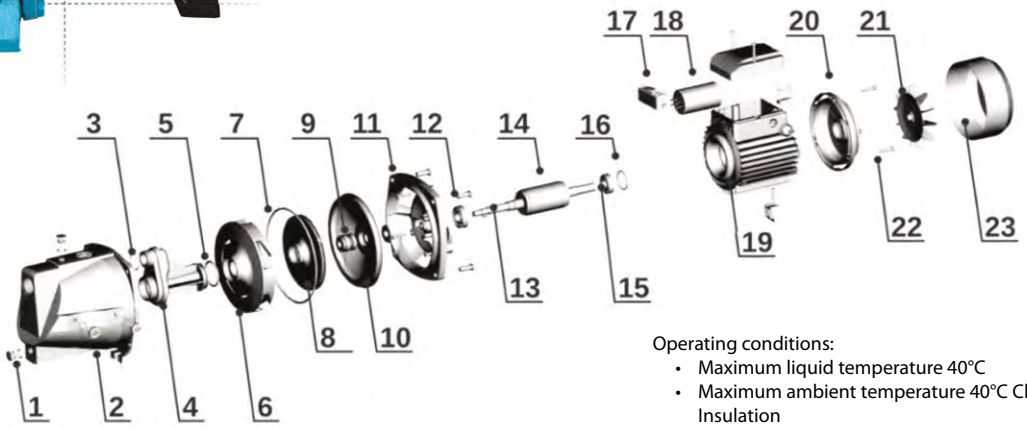
JSW



JSW 100



JSW 150



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.

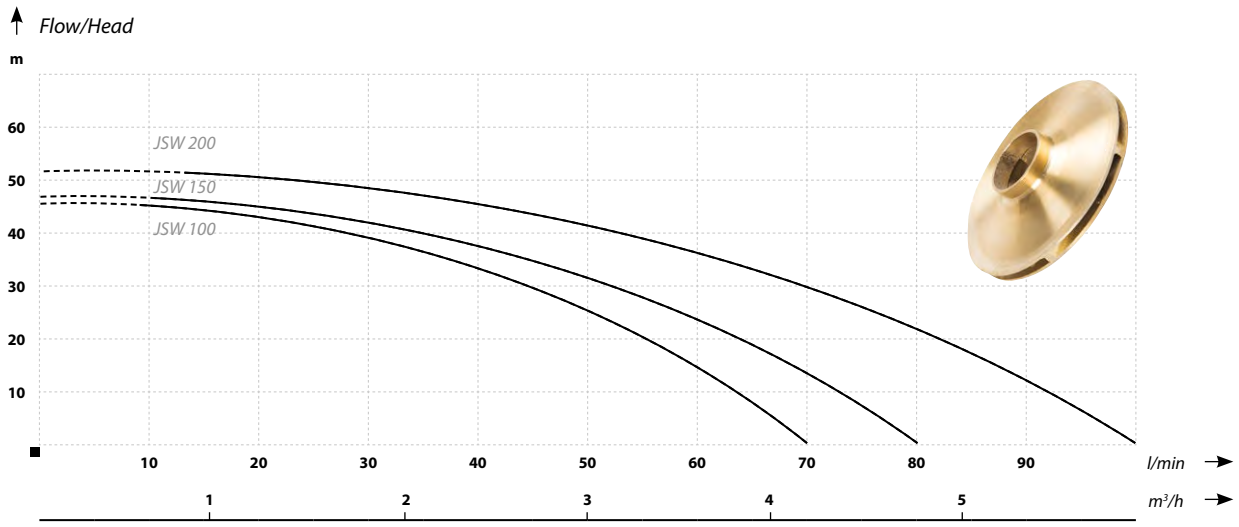
APPLICATION:
Supply of water to houses and agricultural holdings, as well as for irrigation of gardens. When combined with pressure tanks, the pumps can be used for single- and multi-family residential housing, in industrial applications and for irrigation purposes.

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



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

DP

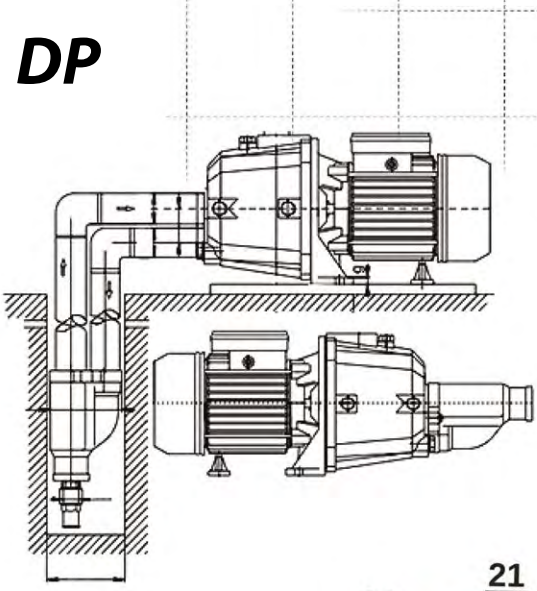
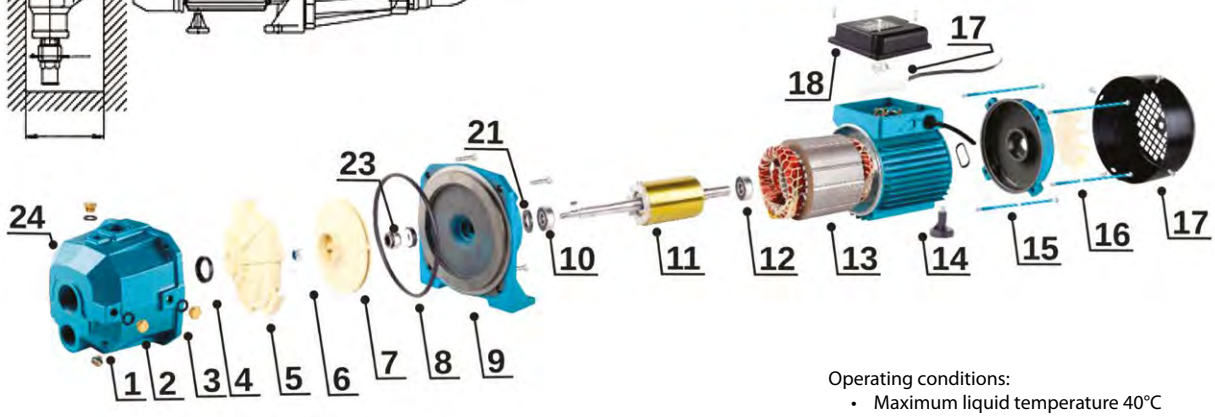




IMAGE: DP370



The pump for pumping of clean cold water from own intakes and for increasing pressure. DP355 is a single-stage self-priming centrifugal surface pump equipped with the Venturi tube system immersed directly into a well for increased suction capacity. DP355 is one of the few pumps that has a suction capacity of 23 m when using the Venturi tube system immersed into the well. Due to the high suction capacity, the pump can replace a submersible pump. The pump body is made of durable cast iron, and the pump motor is provided with thermal protection. The pump has a power cable with a plug.

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

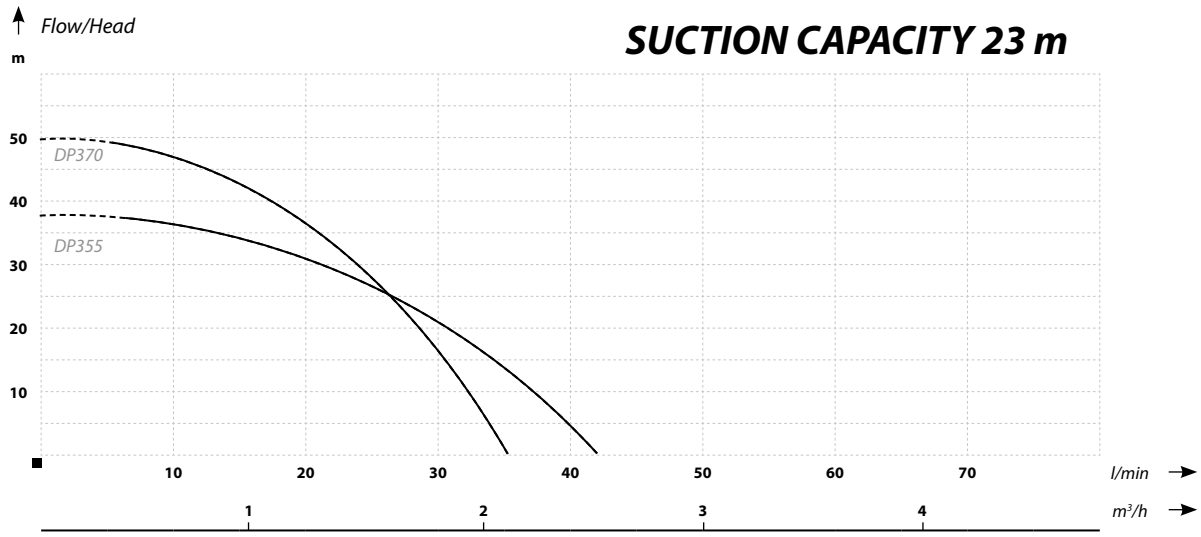
Operating conditions:

- 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
- Pump end plate / Frame: cast iron
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP

SUCTION CAPACITY 23 m



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)
DP355	38	42	1100	230	23	3,2	1 x 1	40/18/18	14,5
DP370	50	35	1100	230	23	3,6	1 x 1	39/21/19	15

PJ 65/45 GARDEN



PJ 65/45



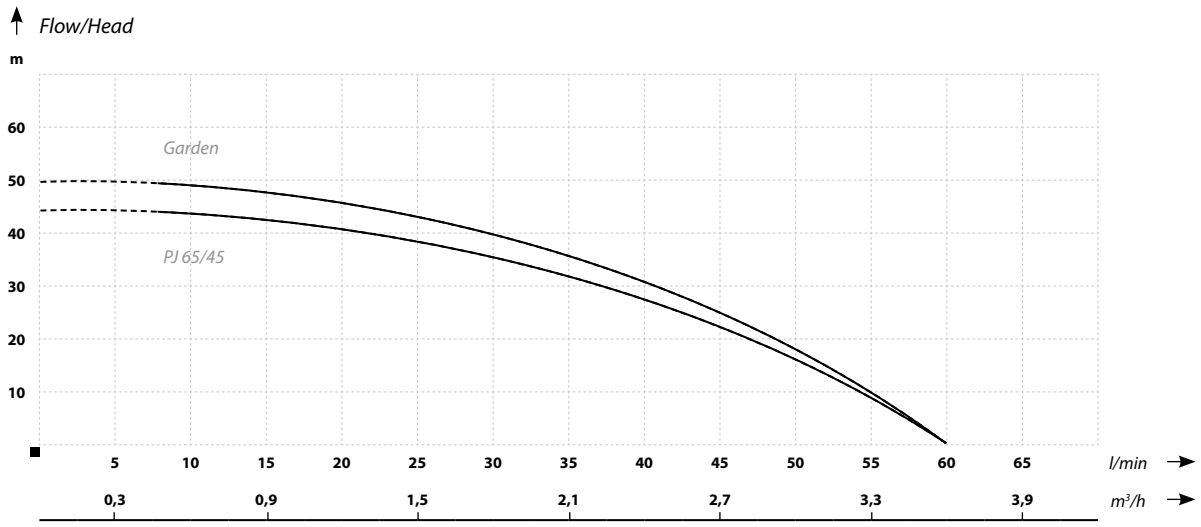
GARDEN

Self-priming centrifugal garden pumps equipped with the Venturi tube system for increased suction capacity. The pump body is made of a high quality material. Pumps are equipped with a switch integrated into the housing and a carrying handle. The pump motor is provided with thermal protection. The pump is available with fittings, booster sets and intelligent pump controllers.

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

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
- Pump end plate / Frame: polipropylene/aluminium
- 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)
PJ 65/45	45	60	1100	230	8	3,6	1x1	39/25/18	9,5
Garden	50	60	1100	230	8	3,8	1x1	39/27/19	10

MULTI1300 INOX
MULTI-GARDEN



MULTI1300 INOX

FILTER



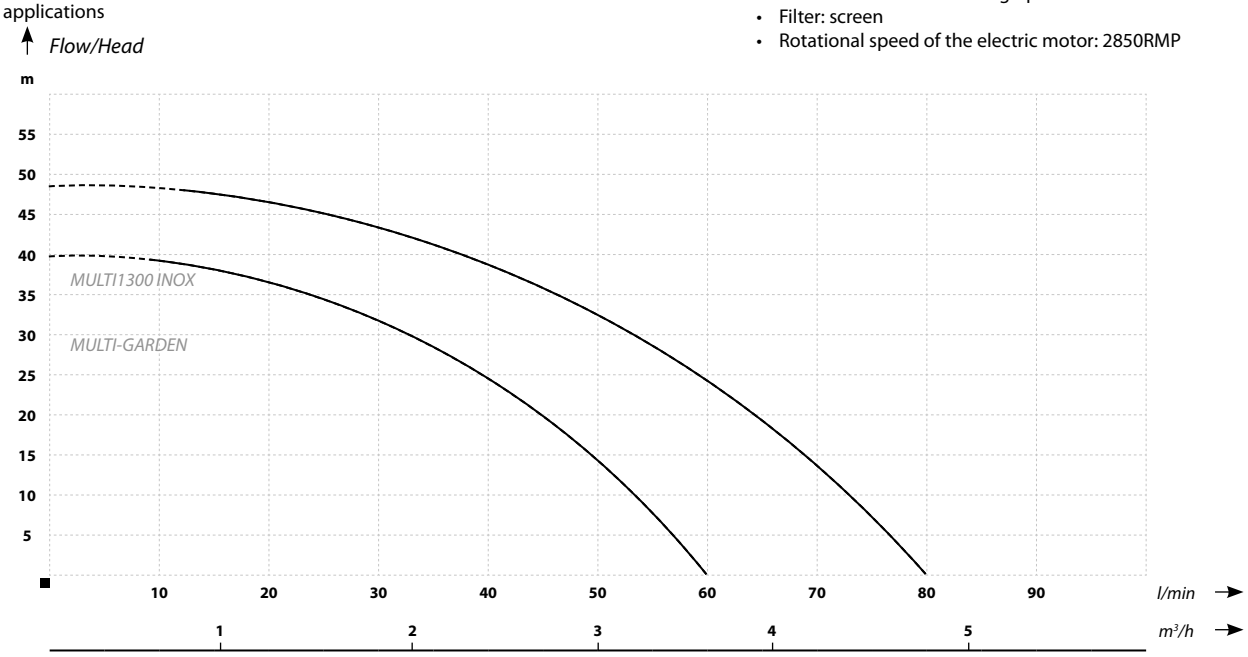
IMAGE: COMPLETE MULTI-GARDEN BOOSTER SET

Self-priming centrifugal pump with the built-in screen filter, equipped with the Venturi tube system for increased suction capacity.
The pump body is made of a high quality material and stainless steel. The pump is equipped with a switch integrated into the housing and a carrying handle. The pump motor is provided with thermal protection. The pump is available with fittings, booster sets and intelligent pump controllers.

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

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

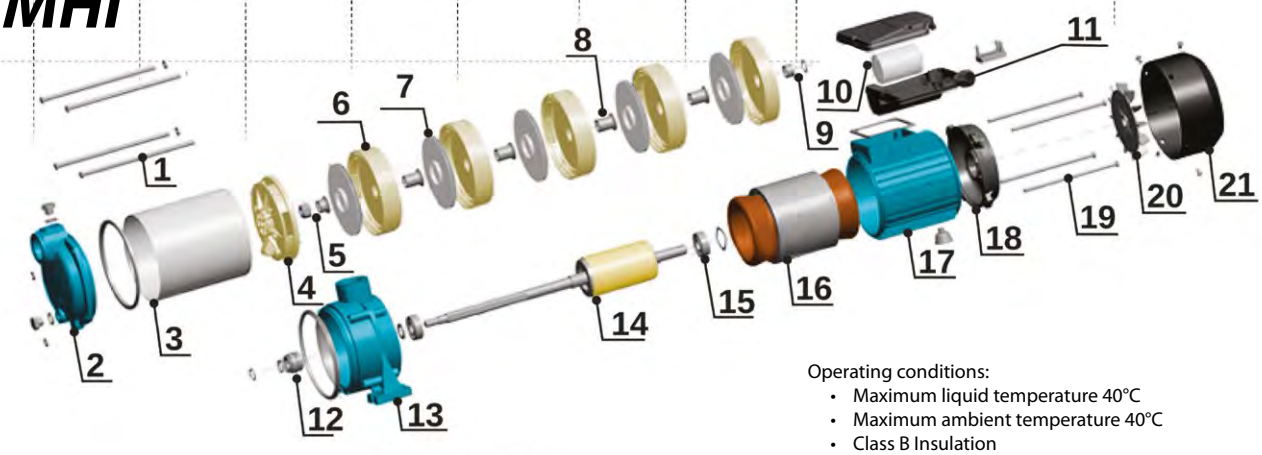
Materials:
- Housing: technopolymer/ stainless steel AISI 304
  Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Pump end plate / Frame: polipropylene/aluminium
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Filter: screen
- Rotational speed of the electric motor: 2850RMP



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)
MULTI1300 INOX	48	80	1300	230	8	6	1x1	44/28/23	11
MULTI-GARDEN	40	60	1100	230	8	3	1 x 1	65/55/30	19

MHI





MHI 1800

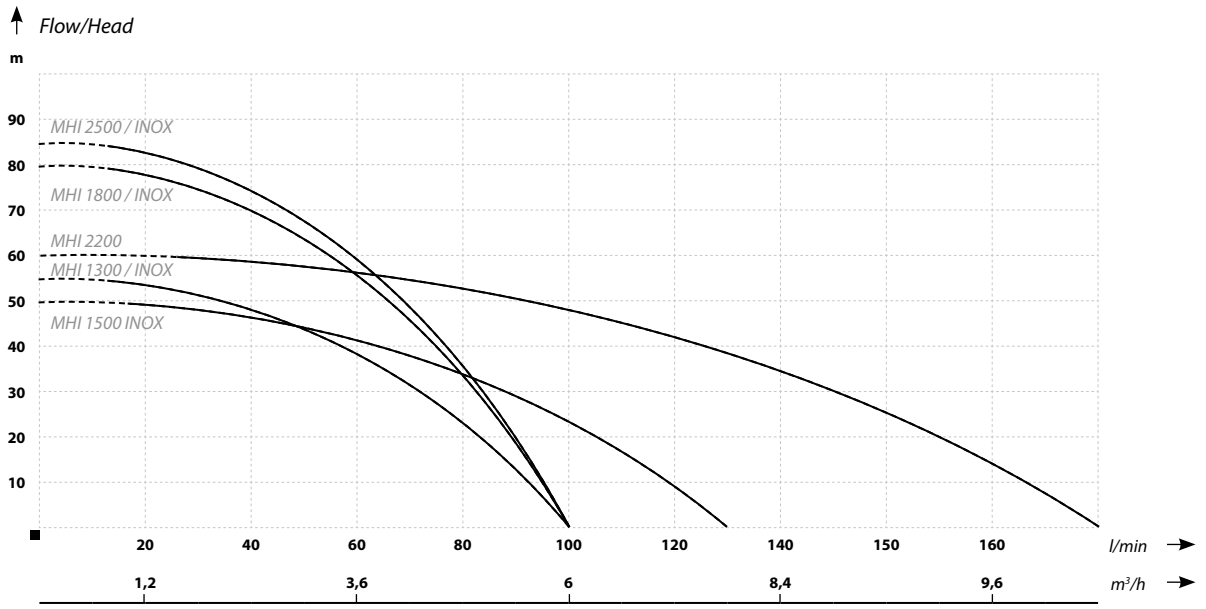
Operating conditions:

- 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
- Impeller: AISI 304 (INOX design)
- Pump end plate / Frame: cast iron
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP

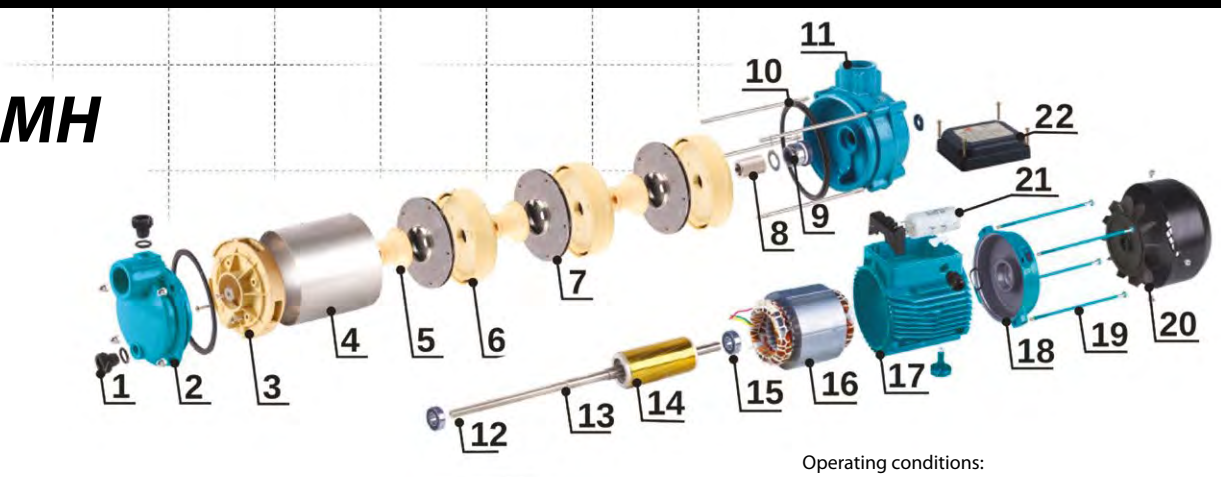
Group of multi-stage self-priming centrifugal pumps designed for pumping of clean cold water from own intakes and for increasing pressure. The pumps are equipped with the Venturi tube system for increased suction capacity. MHI pumps are available in two variants: with stainless steel impellers (INOX design) or with noryl impellers. All pumps have a stainless steel body. Due to low-noise operation, the pumps can be installed inside the houses. The pumps are equipped with thermal protection mounted in the motor winding.



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)
MHI 1300 / INOX	55	100	1300	230	8	7	1x1	42/15/19	13,5
MHI 1500 INOX	50	130	1500	230	8	7,5	1x1	44/16/20	15
MHI 1800 / INOX	80	100	1800	230	8	8,8	1x1	48/18/20	17
MHI 2200	60	180	2200	230	8	10,5	1x1¼	46/18/21	18,5
MHI 2500 / INOX	85	100	2500	230	8	11	1x1	55/21/18	24

MH





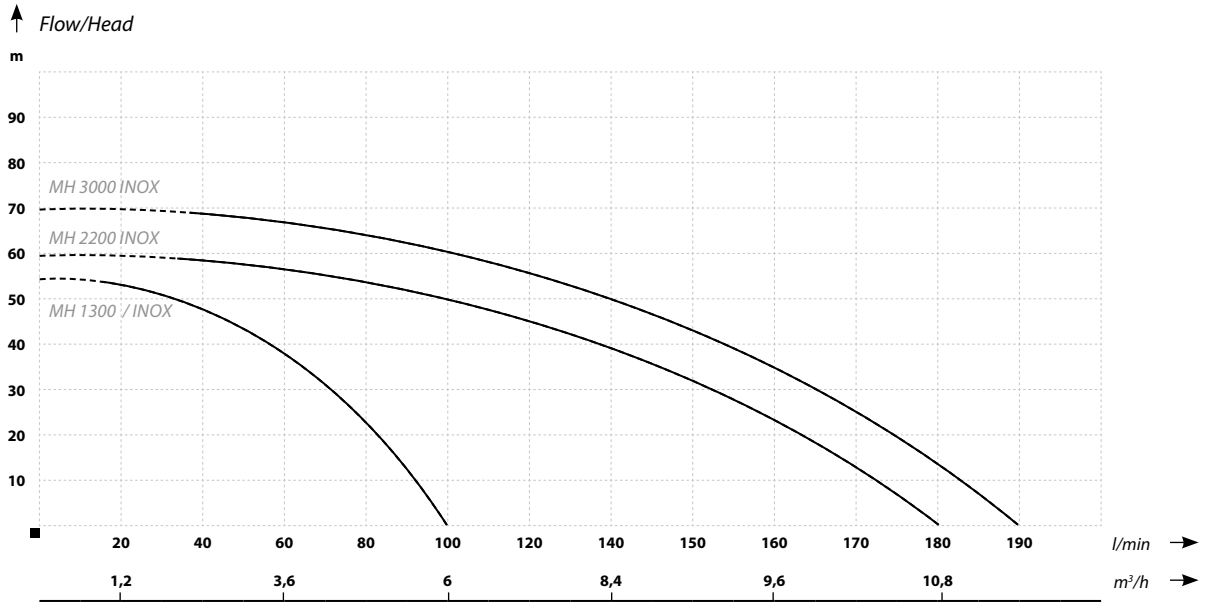
Operating conditions:

- 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
- Impeller: AISI 304 (INOX design)
- Pump end plate / Frame: cast iron
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP

Group of multi-stage self-priming centrifugal pumps designed for pumping of clean cold water from own intakes and for increasing pressure. The pumps are equipped with the Venturi tube system for increased suction capacity. MH pumps are available in two variants: with stainless steel impellers (INOX design) or with noryl impellers. All pumps have a stainless steel body. Due to their high performance, efficiency and parameters, the pumps are often used to supply water to houses and agricultural holdings. Due to low-noise operation, the pumps can be installed inside the houses. The pumps are equipped with thermal protection mounted in the motor winding. All MH pumps are available in 230 V ~ / 50 Hz version. MH 1300 / INOX and MH 2200 INOX pumps are additionally available in the 400 V ~ 3/50 Hz version. MH pumps are also available with booster sets and with PC intelligent pump controllers
(PC15, PC16, PC10P, PC59).

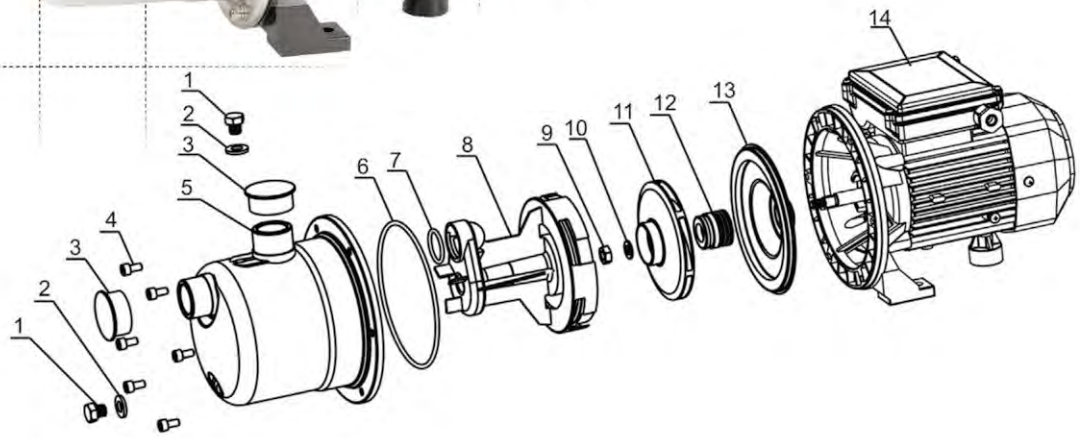


PARAMETERS

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)
MH 1300 / INOX	55	100	1300	230/400	8	6	1x1	43/15/18	13,5
MH 2200 INOX	60	180	2200	230/400	8	10	1x1¼	46/18/21	20
MH 3000 INOX	70	190	3000	230	8	12,5	1x1¼	47/19/22	26

BJ 40/55



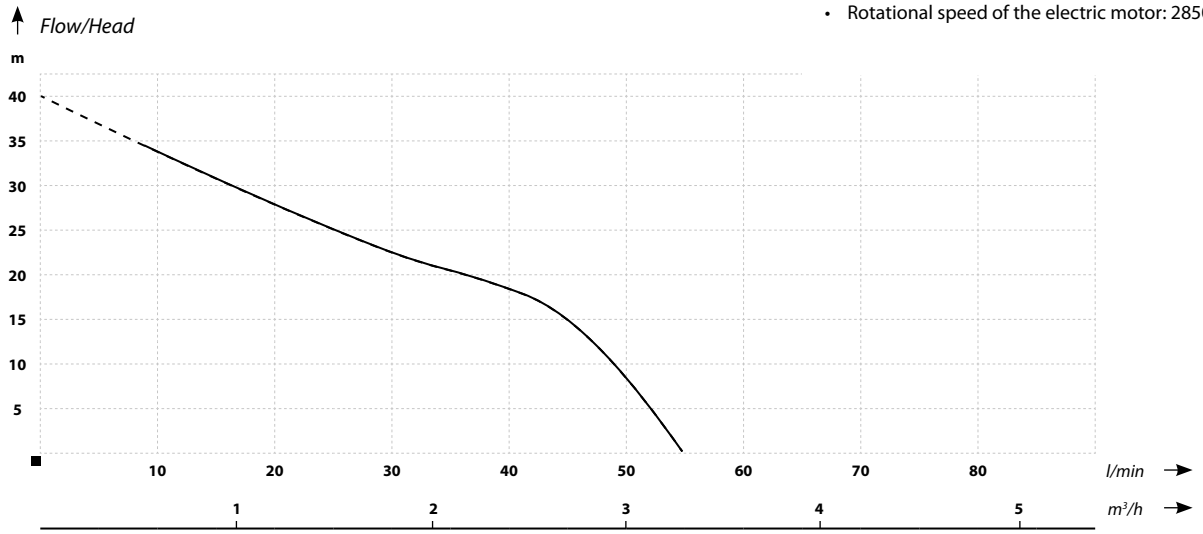


The pump for pumping of clean cold water from own intakes and for increasing pressure. BJ 40/55 is a single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity. Sections of pump body and shaft that come in contact with water are made of stainless 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

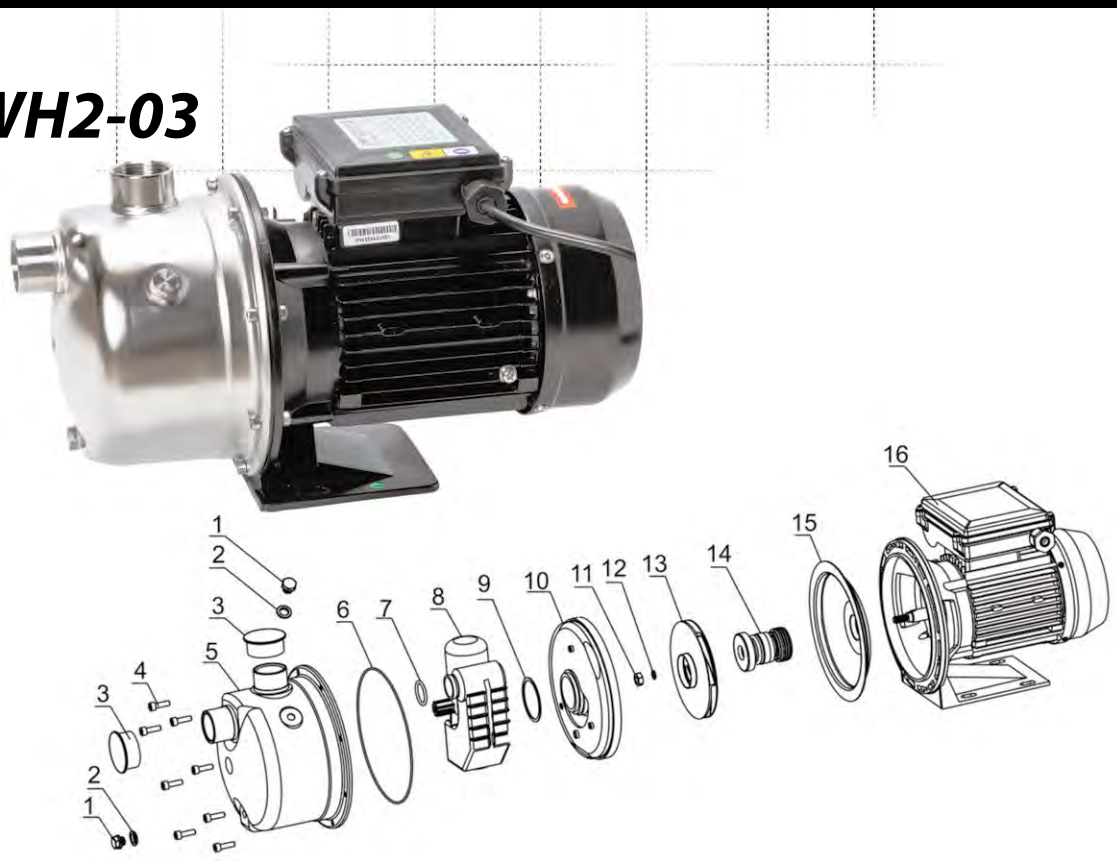
Materials:
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Pump end plate: stainless steel AISI 304
- Venturi tube: Noryl
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



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)
BJ 40/55	40	55	550	230	8	3.8	1x1	36/20/18,5	8.5

IWH2-03

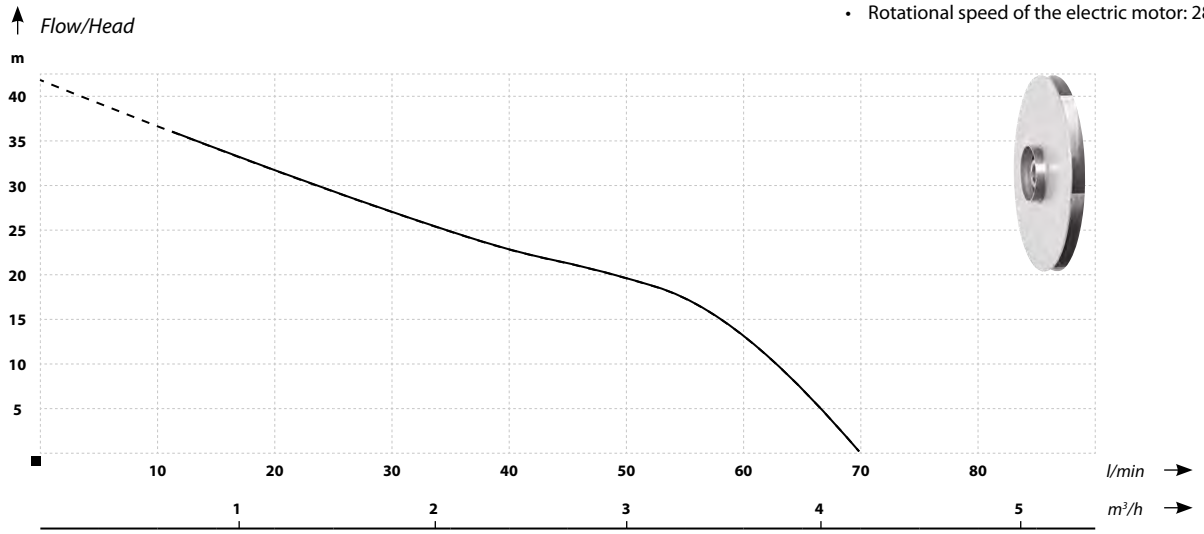


The pump for pumping of clean cold water from own intakes and for increasing pressure. IWH2-03 is a single-stage self-priming centrifugal surface pump equipped with the Venturi tube system for increased suction capacity. Sections of pump body
and shaft that come in contact with water are made of stainless 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

HP INOX



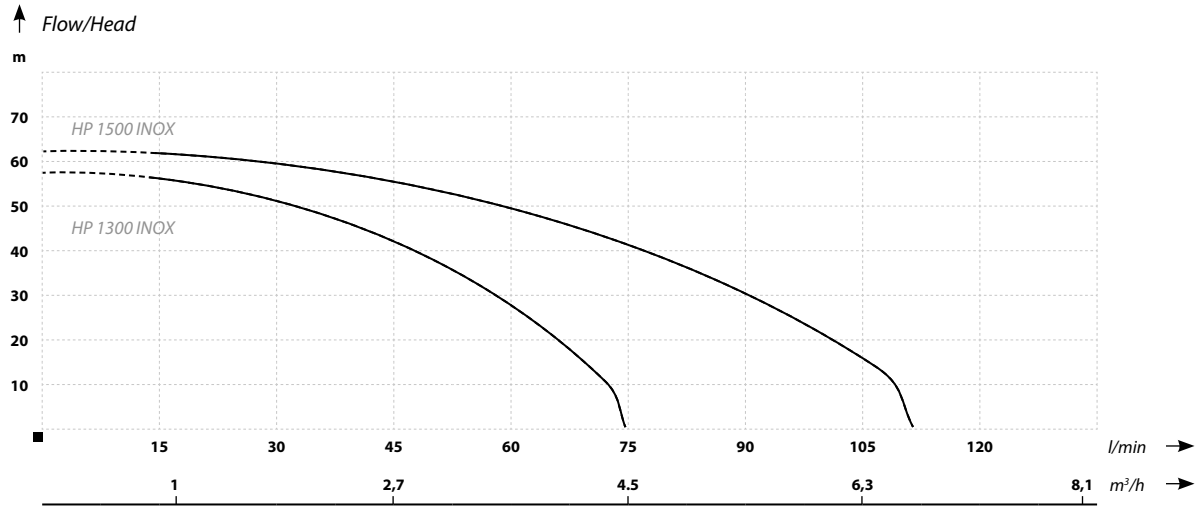


The pump for pumping of clean cold water from own intakes and for increasing pressure. HP Series are multi-stage self-priming centrifugal surface pumps equipped with the Venturi tube system for increased suction capacity. Sections of pump body and shaft that come in contact with water are made of stainless 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 70°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: Noryl
- Venturi tube: Noryl
- Pump end plate: stainless steel AISI 304
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP



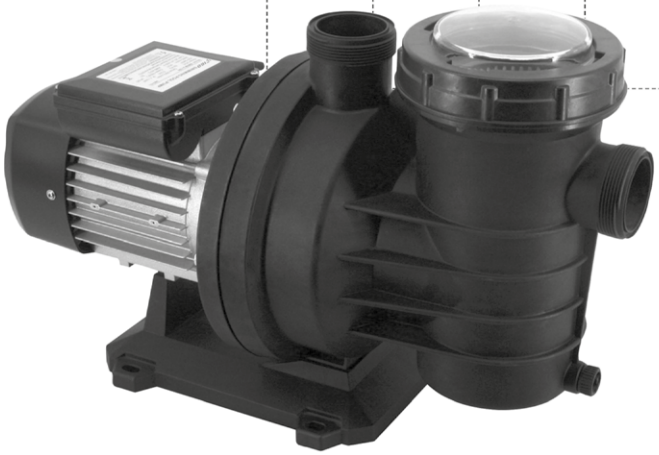
PARAMETERS

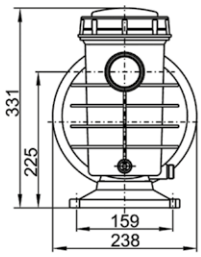
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Suction capacity (m)	Amperage (A)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
HP 1300 INOX	58	75	1300	230	8	6,2	1x1	47/27/20	13,1
HP 1500 INOX	62	110	1500	230	8	9,6	1x1	48/20/23	15,5

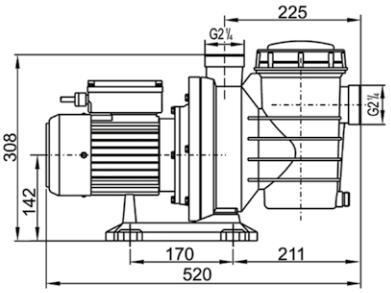
SWIMMING POOL PUMPS
POOLPUMPEN
BAZÉNOVÁ ČERPADLA
POMPE DE BAZIN
БАССЕЙНОВЫЕ НАСОСЫ



SWIM





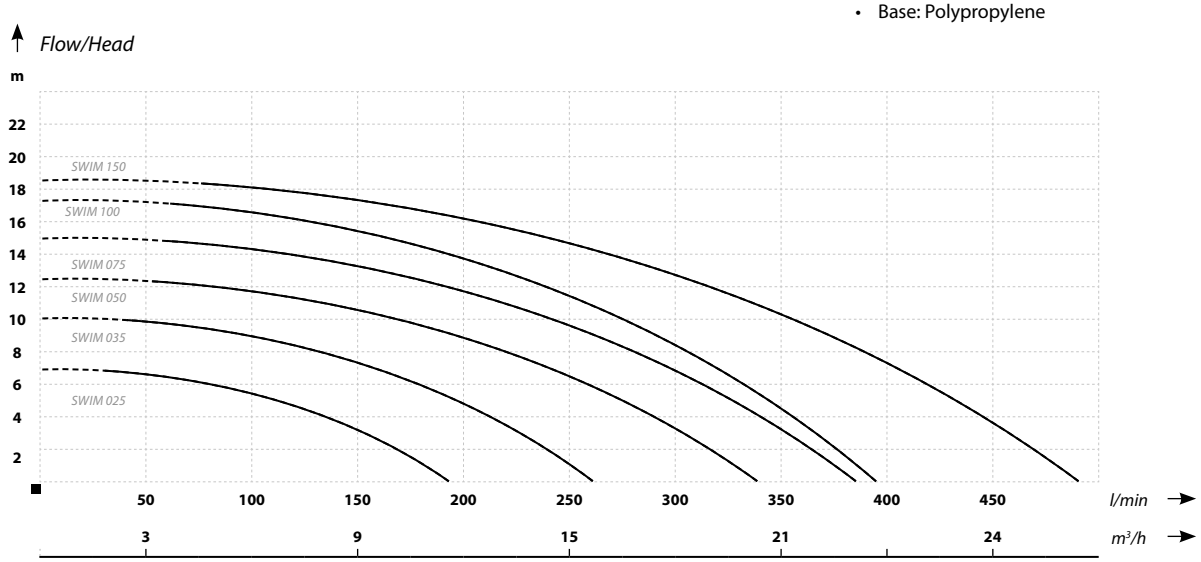


Self-priming swimming pool pump with pre-filter.
Designed for maximum efficiency of filtration and circulation of water with chlorine content. It can operate with sea water. The pump is made of plastic materials, with a catcher for leaves and larger impurities, including fibrous ones. Available with 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

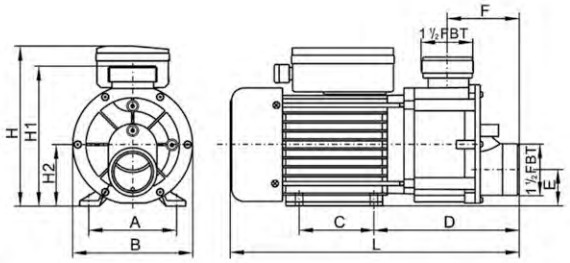


PARAMETERS

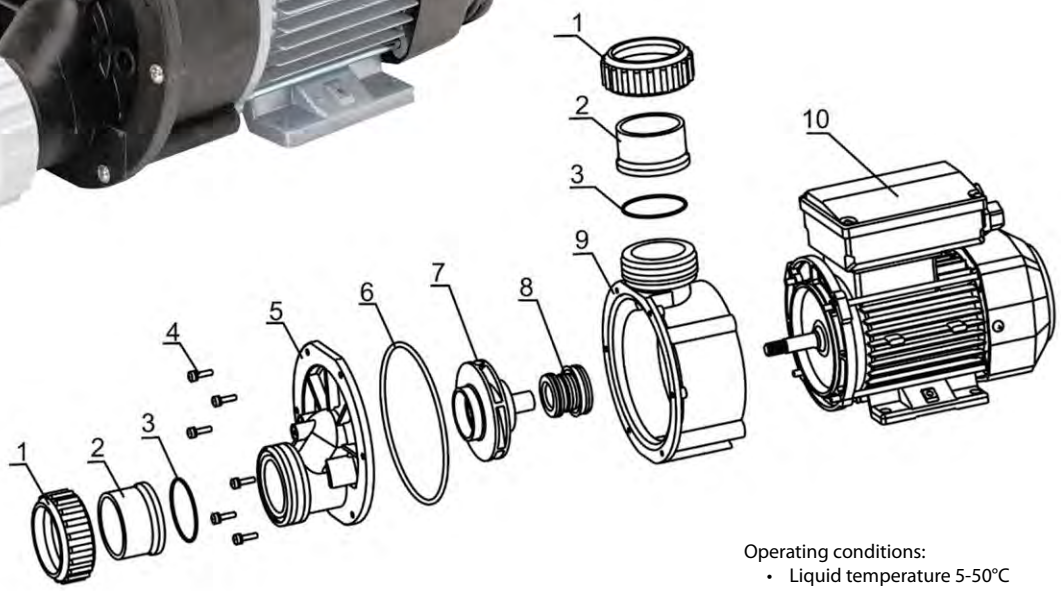
Name	Flow (l/min)	Head (m)	Motor power		Amperage (A)	Weight (kg)
			(kW)	(HP)		
SWIM 025	195	7	0,37	0,50	1,9	9,3
SWIM 035	255	10	0,50	0,75	2,7	9,5
SWIM 050	340	12,5	0,75	1,0	3,8	9,7
SWIM 075	370	15	0,9	1,2	4,6	10,5
SWIM 100	390	17,5	1,1	1,5	5,8	10,9
SWIM 150	470	18,5	1,5	2,0	7,0	11,5

JA50





Name	DIMENSIONS (mm)									
	A	B	C	D	E	F	G	H	H1	H2
JA50	100	153	80	164	33	89	317	191	168	63



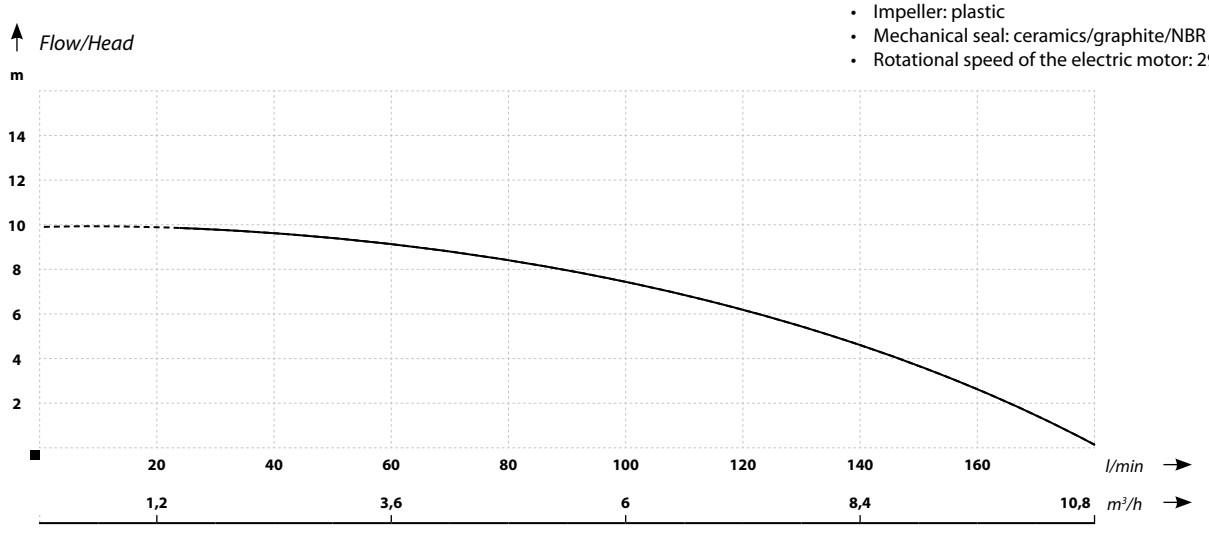
The SPA pump is designed for circulation or filtration of swimming pools, spas, whirlpool bathtubs and hot tub spas. The JA pump can also be used in pools containing sea water, e.g. fish farms. The pump motor is equipped with thermal protection and provides exceptionally low-noise operation and low vibrations. The JA50 pumps are widely used by SPA manufacturers.

Operating conditions:

- Liquid temperature 5-50°C
- Maximum ambient temperature ≤ 50°C
- Maximum humidity - 95%
- Class F Insulation
- Operating mode - continuous
- Protection - IP55

Materials:

- Housing: plastic
- Shaft and rotor: stainless steel AISI 304
- Impeller: plastic
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2900RMP

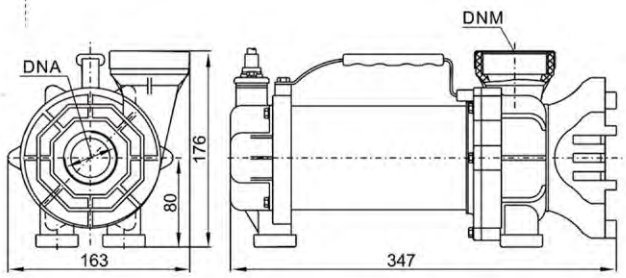


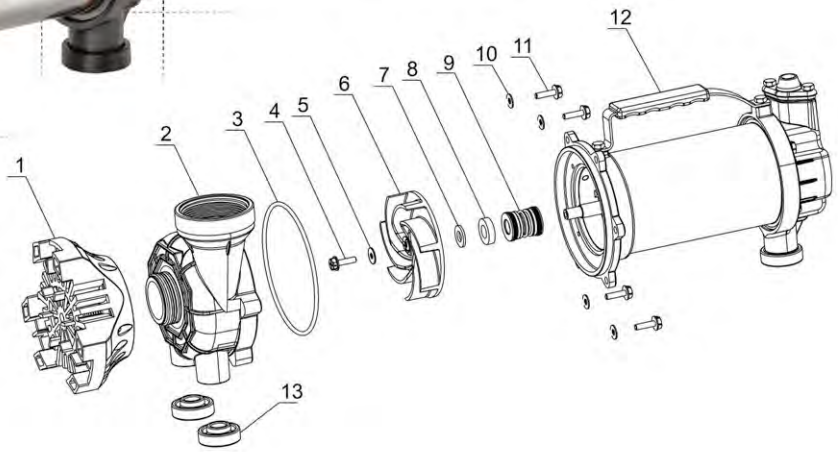
PARAMETERS

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)
JA50	10	180	370	230	8	2	48,5 lub 50	34/24/16	6

FON



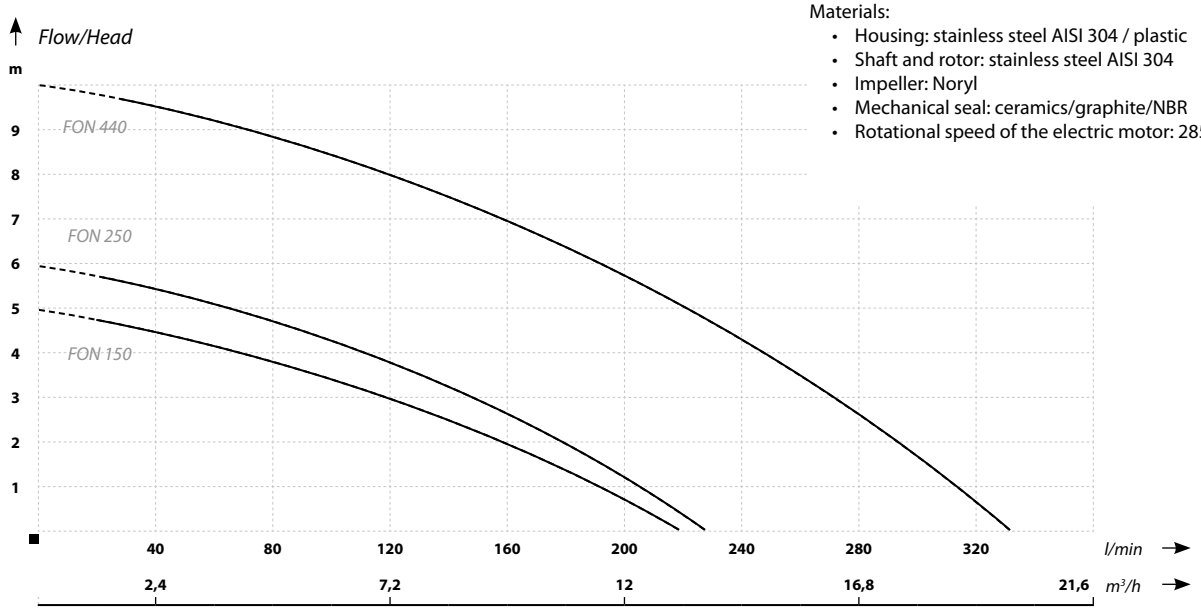




Submersible fountain pumps.
The pumps are used to supply water to fountains, waterfalls, streams, ponds, decorative parts and features that using the effect of flowing water, as well as
in food processing plants and agricultural production for draining ponds and fields. The pumps have a high efficiency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

BOOSTER SETS
WASSERVERSORGUNGSSÄTZE
DOMÁCÍ VODÁRNY
SETURI DE HIDROFOARE
ГИДРОФОРНЫЕ КОМПЛЕКТЫ



BOOSTER SETS

The booster set s a proven solution for automatic supply of water to households. Each of the IBO surface pumps can be combined in any booster set. The size of the tank is selected according to individual needs and requirements of clients.
In addition to the classic sets of pump + tank, it is possible to configure the pump with intelligent controllers such as: PC (PC-10P/ PC-13 / PC-15/PC-16/PC-59), SK(SK15) and IVR-02 frequency converters. The controllers are equipped with an additional dry-running protection. The set's operation is fully automatic - it starts the pump when the water is turned on and stops it when the water is turned off.
TANKS THAT CAN BE SELECTED: IBO POZIOM / IPO PION POZIOM / IBO INOX / IBO ITALY / IBO ITALY FIX.

The set includes:

- pump,
- pressure tank,
- pressure switch,
- pressure gauge,
- five-way delivery outlet
- anti-vibration hose with elbow



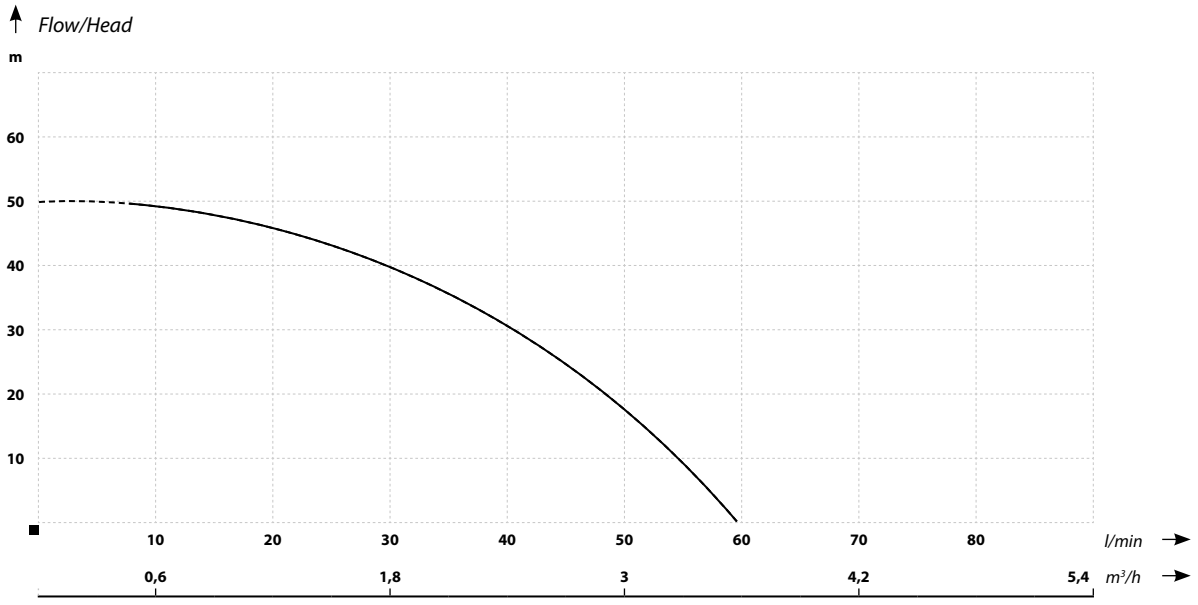
IMAGE: PUMP AJ50/60 WITH FITTINGS



IMAGE: PUMP AJ50/60 WITH FITTINGS + TANK 24



IMAGE: PUMP AJ50/60 WITH FITTINGS + TANK 24



PARAMETERS

Name	RECOMMENDED TANK MODEL	RECOMMENDED INTELLIGENT CONTROLLER MODEL
AJ 50/60	24 / 50 / 80 / 100L/ 150	PC15 / PC16 / PC59 / PC10P

BOOSTER SETS



IMAGE: WZI 250/750 PUMP WITH FITTINGS



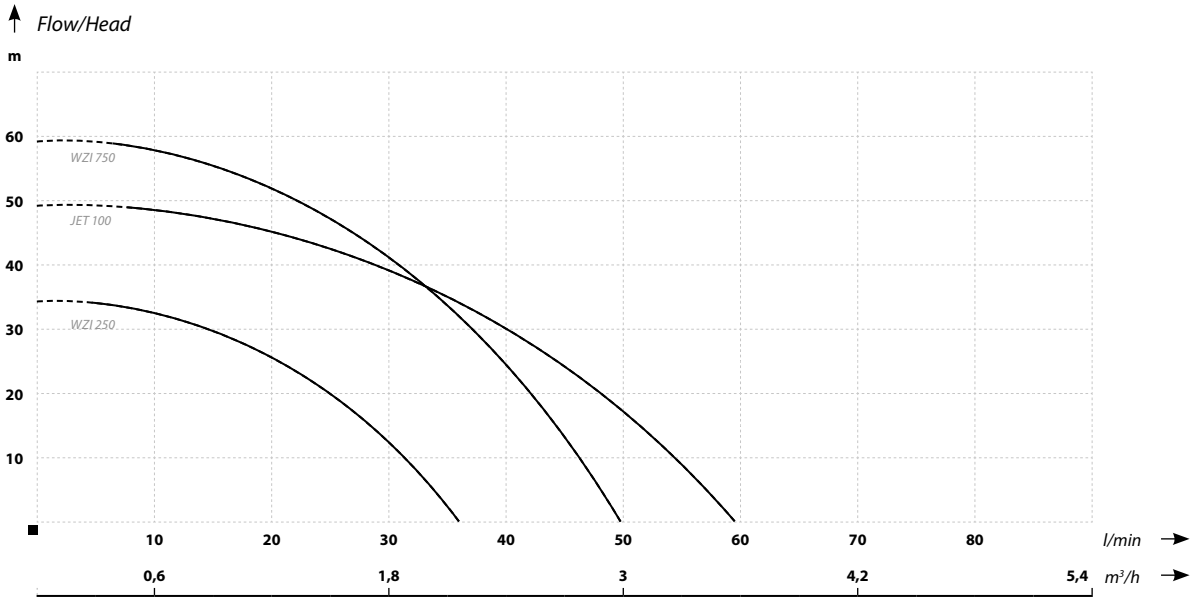
IMAGE: WZI 750/750 PUMP WITH FITTINGS + TANK 24



IMAGE: JET 100 PUMP WITH FITTINGS + TANK 24



IMAGE: JET 100 PUMP WITH FITTINGS + TANK 24



PARAMETERS

Name	RECOMMENDED TANK MODEL	RECOMMENDED INTELLIGENT CONTROLLER MODEL
JET 100	24 / 50 / 80 / 100 / 150	PC15 / PC16 / PC59 / PC10P
WZI 250	2 / 24 / 50 / 80 / 100	PC15 / PC16 / PC59 / PC10P
WZI 750	24 / 50 / 80 / 100 / 150	PC15 / PC16 / PC59 / PC10P

BOOSTER SETS



IMAGE: PDP 355 PUMP WITH FITTINGS



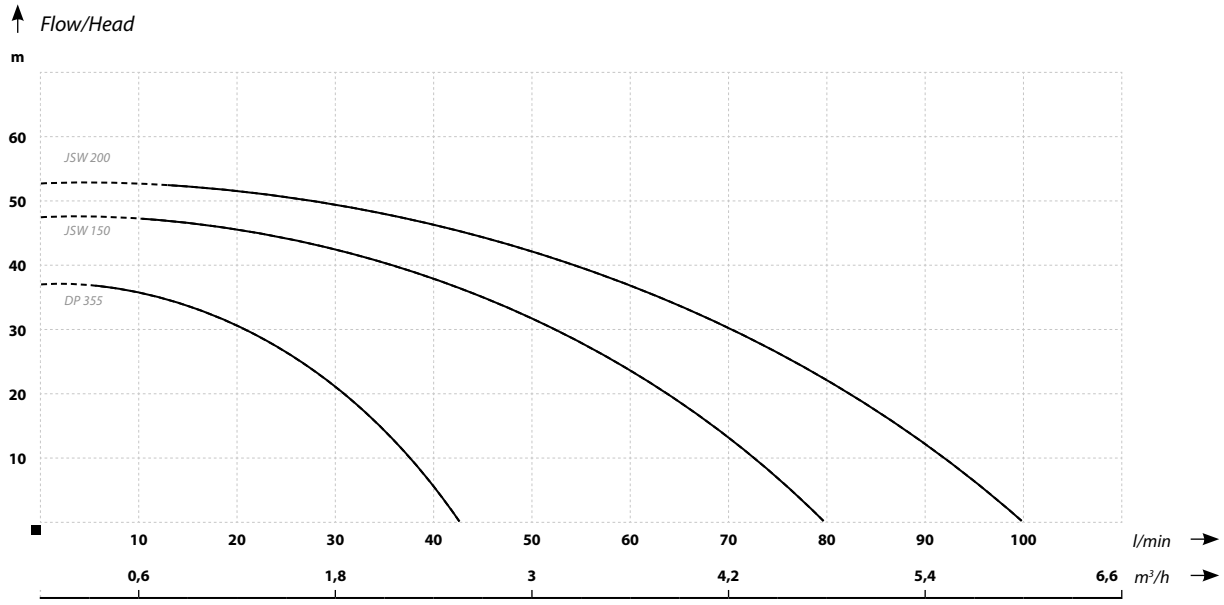
IMAGE: : JSW 150 ITALY PUMP WITH FITTINGS + TANK 50



IMAGE: JSW 150 ITALY PUMP WITH FITTINGS + TANK 24



IMAGE: MH1300 PUMP WITH FITTINGS + TANK 24



PARAMETERS

Name	RECOMMENDED TANK MODEL	RECOMMENDED INTELLIGENT CONTROLLER MODEL
DP 355	24 / 50 / 80 / 100 / 150	PC15 / PC16 / PC59 / PC10P
JSW 150	24 / 50 / 80 / 100 / 150	PC15 / PC16 / PC59 / PC10P
JSW 200	50 / 80 / 100 / 150	PC16 / PC10P

BOOSTER SETS



IMAGE: GARDEN PUMP WITH FITTINGS



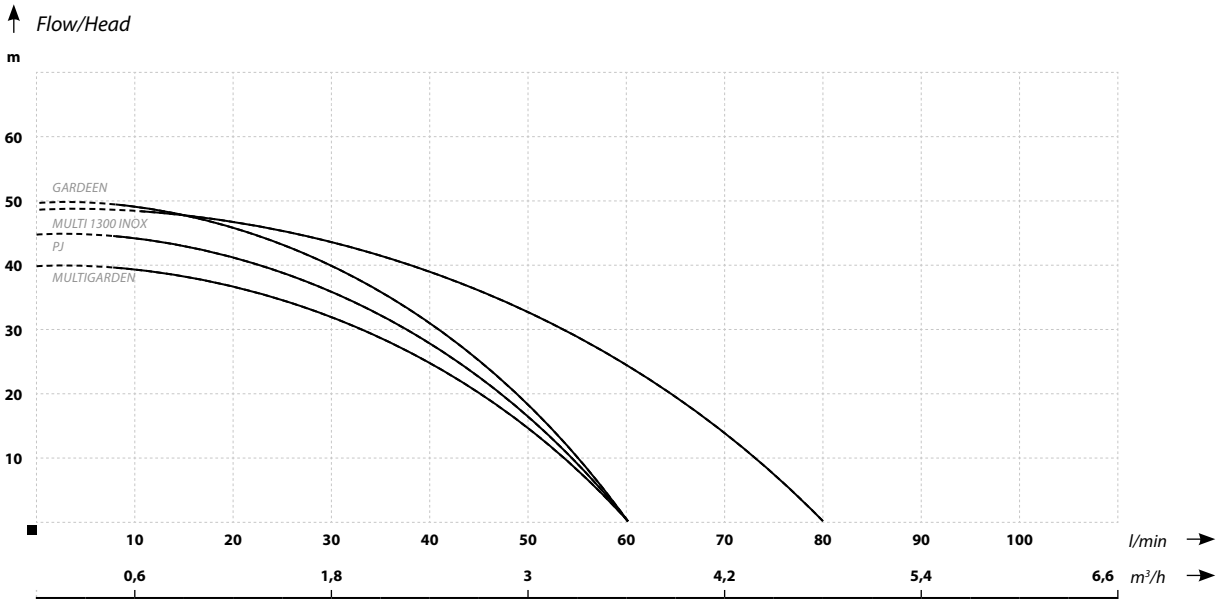
IMAGE: PJ PUMP WITH FITTINGS



IMAGE: MULTI 1300 PUMP WITH FITTINGS



IMAGE: MULTIGARDEN PUMP WITH FITTINGS



PARAMETERS

Name	RECOMMENDED TANK MODEL	RECOMMENDED INTELLIGENT CONTROLLER MODEL
GARDEN	24 /50	PC15 / PC59 / PC13
MULTI 1300 INOX	24 / 50 / 80 / 100 / 150	PC15 / PC16 / PC59 / PC10P
MULTIGARDEN	-	-
PJ	24 /50	PC15 / PC59 / PC13

BOOSTER SETS



BJ 75/45 WITH IBO TANK TYPE: 50



HP1500INOX WITH IBO TANK TYPE: 80



IWH2-03 WITH IBO TANK TYPE: 24



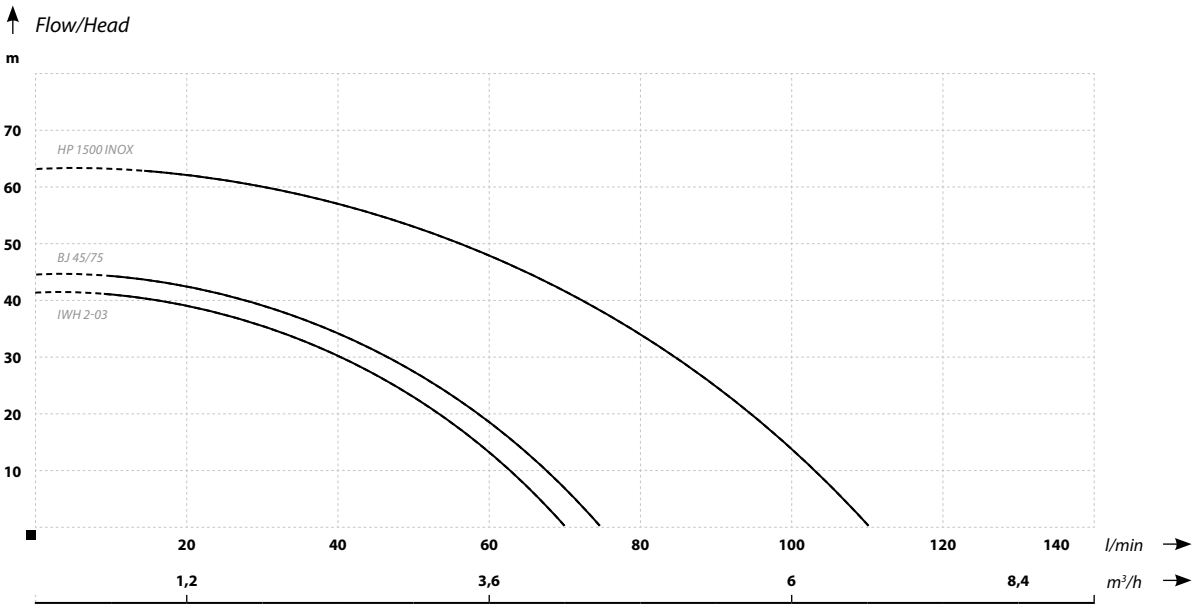
HP1500INOX WITH IITALY FIX 80L TANK



IWH2-03 WITH IITALY FIX 50L TANK



IWH2-03 WITH IITALY FIX 80L TANK



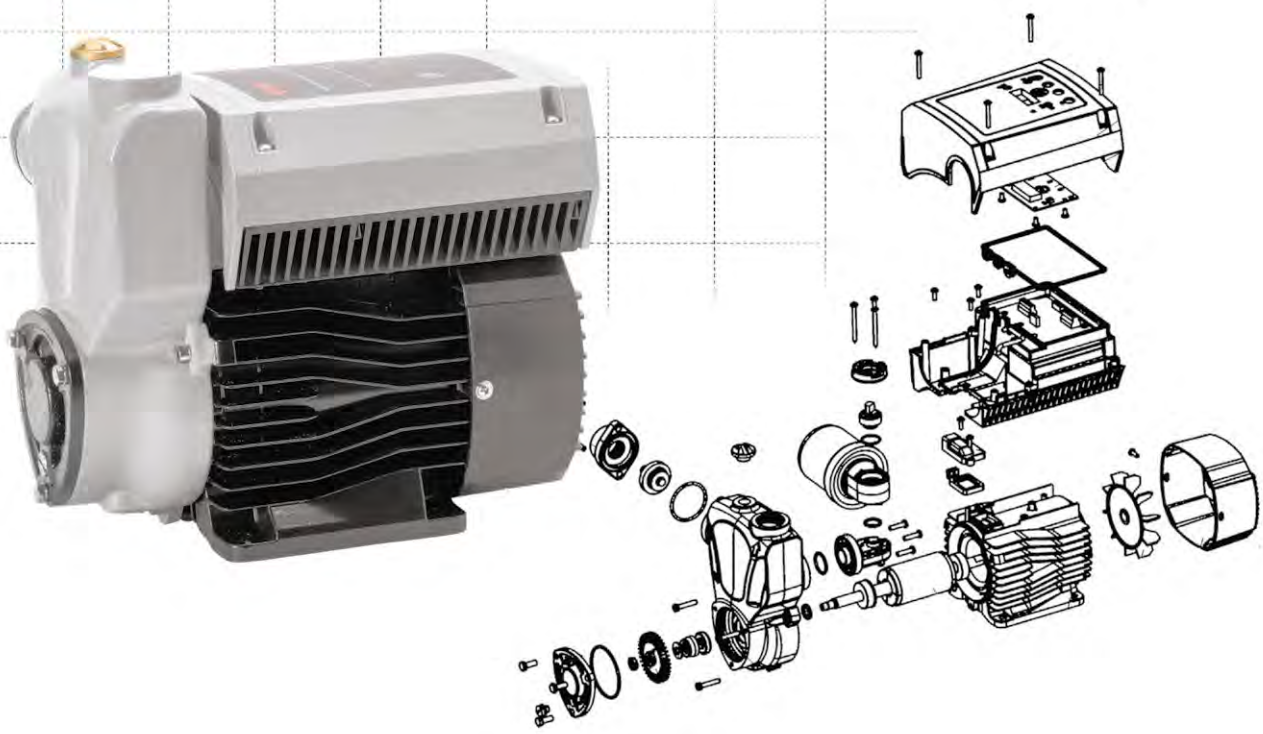
PARAMETERS

Name	RECOMMENDED TANK MODEL	RECOMMENDED INTELLIGENT CONTROLLER MODEL
HP1500 INOX	50 / 80 / 100/ 150	PC-16 / PC-59 / PC-10P
BJ 45/75	24 / 50 / 80 / 100/ 150	PC-16 / PC-59 / PC-10P /PC-13 / SK-15
IWH 2-03	24 / 50 / 80 / 100/ 150	PC-16 / PC-59 / PC-10P /PC-13 / SK-16

INWERTERS
WECHSELRICHTER / INVERTER
STŘÍDAČE / INVERTORY
ONDULOARE / INVERTOARE
ИНВЕРТОРЫ / ПРЕОБРАЗОВАТЕЛИ



AUTOIBO

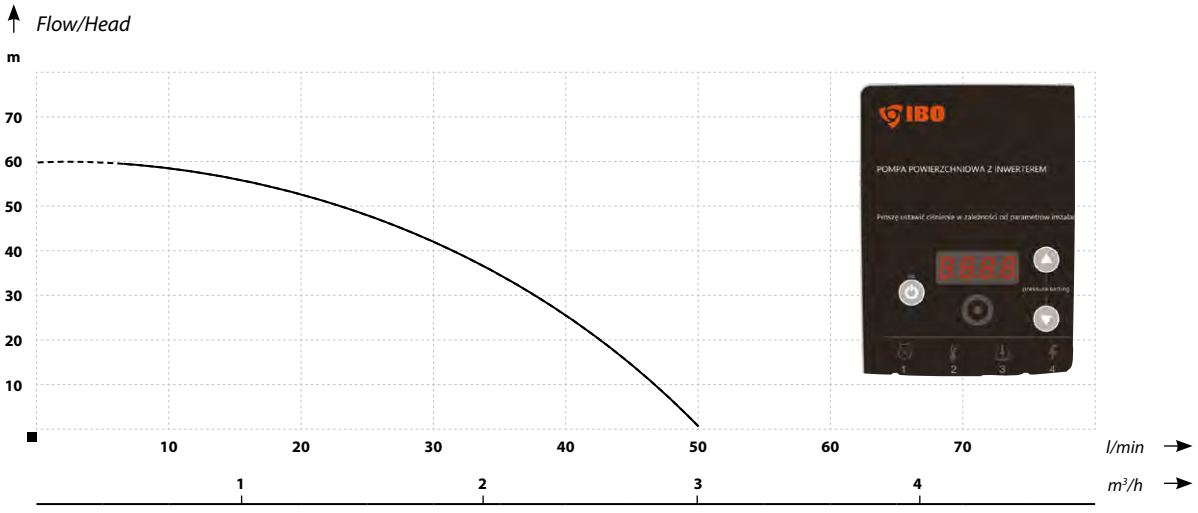


The AUTOIBO series pumps are equipped with a high performance frequency converter. Pumps equipped with frequency converters create seamless system to keep water supply system pressure constant regardless of the water demand. The frequency converter integrated into the pump will allow to reduce electricity 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.



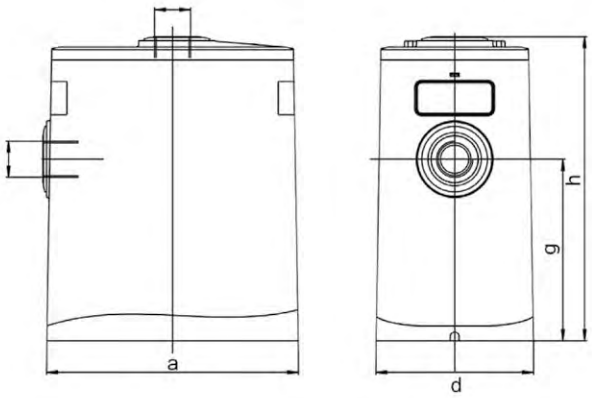
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Suction capacity (m.)	Rotational speed range (rpm)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
AUTOIBO	60	50	800	230	3,6	8	0-3000	1 x 1	31,5 x 21 x 30,5	14

HOME 1





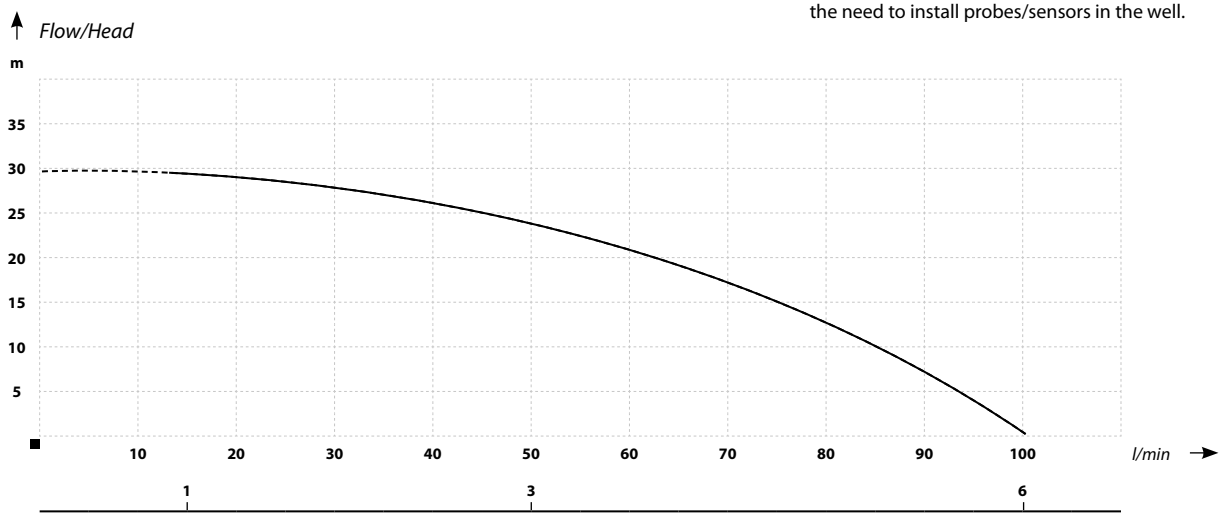


The HOME 1 series pumps are equipped with a high performance frequency converter. Pumps equipped with frequency converters create seamless system to keep water supply system pressure constant regardless of the water demand. The frequency converter integrated into the pump will allow to reduce electricity 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:

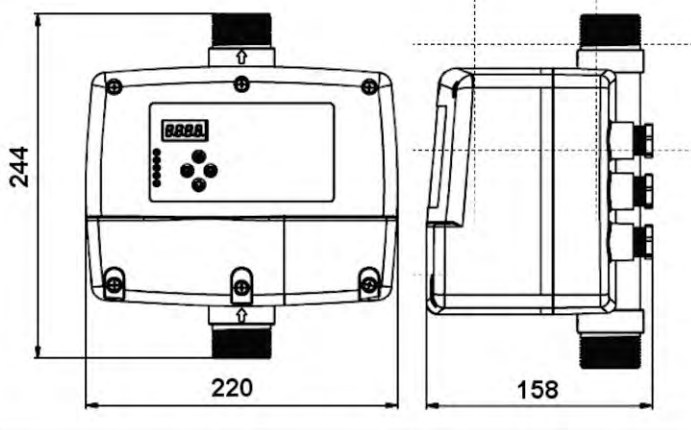
1. Low-noise operation: can be installed in the house.
2. Simple operation: easy to use, all functions can be terminated by pressing a button.
3. Long-term reliability of the co-operating pumps: the average torque and shaft wear are reduced due to decreasing the average rotational speed, which increases 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	
Rated output power	0,37 KW – 1,5 KW (0,5 HP – 2 HP)
Rated input voltage	AC160-250V/50-60HZ (single-phase)
Pump max. amp rating	12A
Rated output voltage	AC 230V / 20-60 Hz (single-phase)
Additional pump rated output voltage	AC 230V / 50 Hz (single-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	270V
Deactivation limit at undervoltage	100V
Horizontal distance	≤1000 m
Protections	Dry-run Short-circuit Overload Pump overloaded Voltage spike Undervoltage Overvoltage
Main Technical Specification	
Control specification	double flow control
	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

INVERTER SYSTEM - IVR -10 S/T

IVR-10 S/T Intelligent Pump Controller is an easy-to-use control and protection device for direct connection of 1.1 KW do 2.2 KW (from 1.5 HP to 2.5 HP) single-phase (IVR-10S) or 3-phase (IVR-10T) 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-10 S/T model provides many operating modes by adapting to various electrical systems.
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.







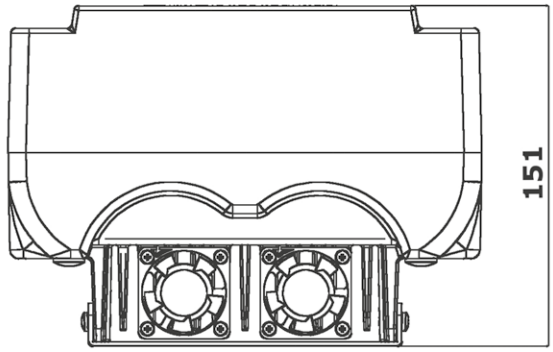
CAN BE ARRANGED IN PUMP GROUPS

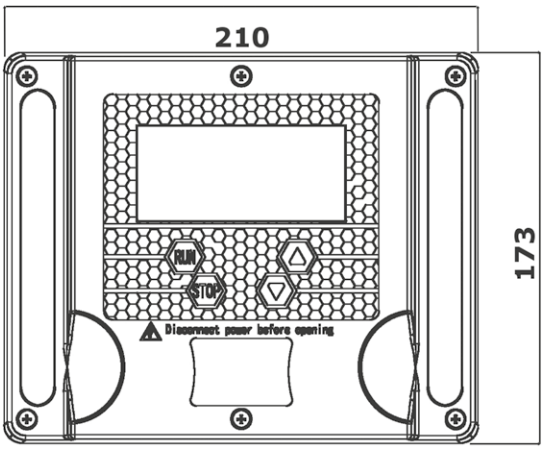
APPLICATION:
IVR-10S/T can be used in all applications where maintaining a constant water pressure in the system, as well as control and protection of a single pump that controls automatic switching on and off by various electrical systems is required.

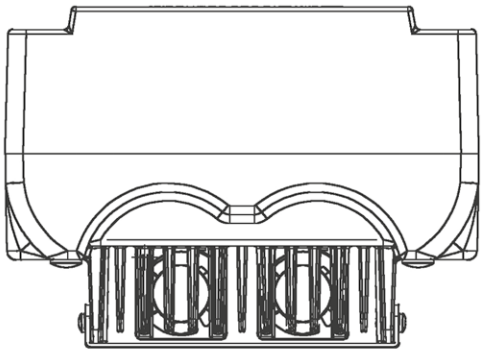
Typical application:
- houses / apartments / holiday houses,
- agricultural holdings,
- supply of water from the well,
- irrigation of growing houses, gardens, agricultural land,
- collecting and using rainwater,
- industrial equipment.

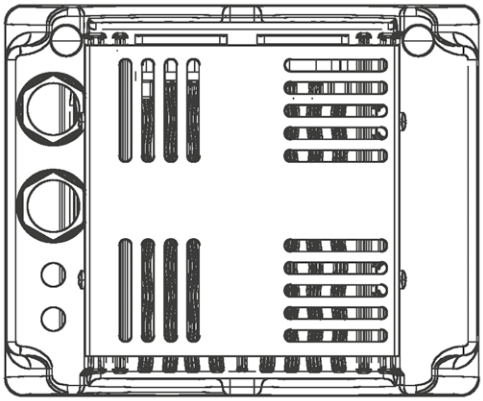


INVERTER SYSTEM - IVR-20/30/40







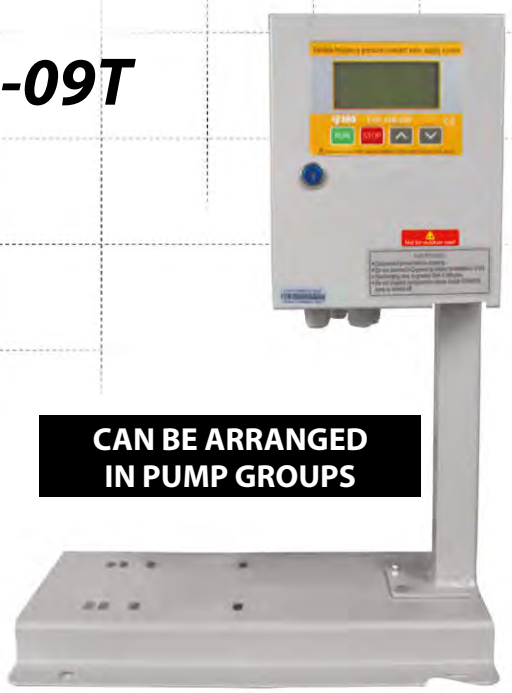


PARAMETERS

Name	Pump power (kW)	Dimensions (mm)	Pressure setting range (bar)	Operating current (A)	Input voltage (V)	Output voltage (V)	Input voltage frequency (Hz)	Output voltage frequency (Hz)	Pressure sensor
IVR-10S	1,1 kW	210 x 173 x 124 mm	0,5-9 bar	7A	1 x 230V (Permissible range 160-260V)	1 x 230V	50/60 Hz	20-50/60Hz	4÷20 mA +24V 10 bar
	1,5 kW			9,6A					
	2,2 kW			11,5A					
IVR-10T	1,1 kW			3,2A	3 x 400V (Permissible range 320-450V)	3 x 400V			
	1,5 kW			4,3A					
	2,2 kW			5A					

INVERTER SYSTEM – IVR-09T





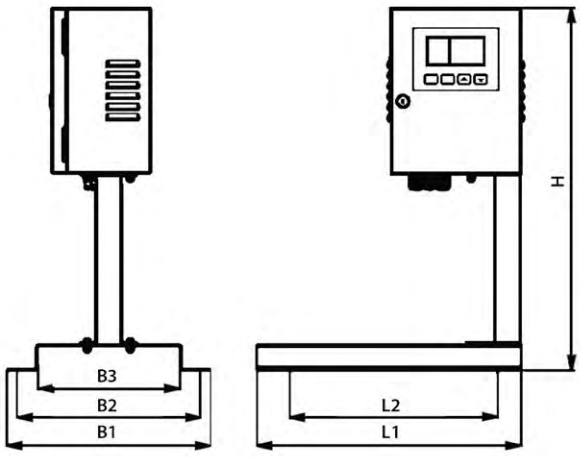
CAN BE ARRANGED IN PUMP GROUPS

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
	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

MULTI SET IVR-02



The set is equipped with the IVR-02 (230V) frequency converter and the set of HP 1500 INOX or MH 1300 INOX pumps. Multi-Set is an easy-to-use device designed for pumping of clean water in order to increase pressure in water supply systems, maintaining a constant, set water pressure by changing the rotational speed of the pump motor, with additional control and protection features.

Advantages:

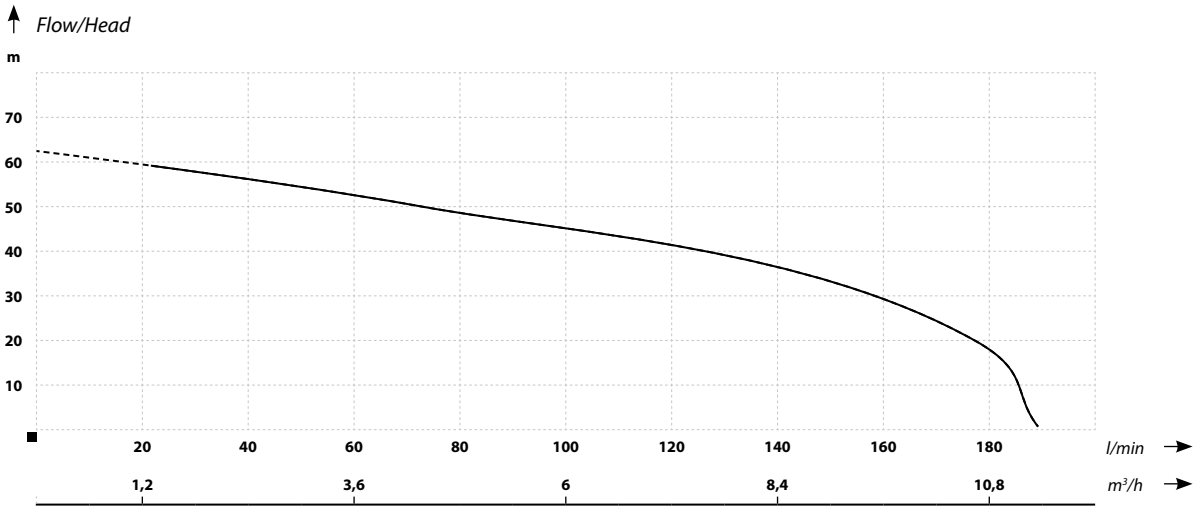
- Energy efficiency: reduction of energy consumption by 30%–60%..
- Simple operation: all functions can be terminated by pressing a button.
- Reliability: the average torque and shaft wear are reduced due to decreasing the average rotational speed, which increases the pump operational lifetime.
- Due to the built-in soft start and stop function, the device allows to eliminate the water hammer.
- Fully protected: the system incorporates the overcurrent, overvoltage, undervoltage, short-circuit, impeller blocking and dry-running protection technology without the need to install probes/sensors in the well.
- The ability to control the operation of two pumps that supply the system.
- Low-noise operation.

DESIGN

- Pumps x 2 - HP 1500INOX (MH 13000INOX)
- Frequency converter - IVR-02 (230V)
- IBO ITALY steel fittings
- Check and water stop valves and fittings
- 8L IBO ITALY pressure vessel

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



PARAMETERS

Name	Head (m)	Flow (l/min)	Pressure (bar)	Water temp. (°C)	Ambient temp. (°C)	Inlet (mm)	Outlet (mm)
MULTI SET IVR-02/HP	62(*55)	190 (*160)	9	+50	+40	40	40

*Details for MH pumps

MULTI SET IVR-09/11

The set is equipped with the IVR-09 (400V) / IVR-11(400V) frequency converter and the CV series pump/pumps. Multi-Set is an easy-to-use device designed for pumping of clean water in order to increase pressure in water supply systems, maintaining a constant, set water pressure by changing the rotational speed of the pump motor, with additional control and protection features.



Advantages:

- Energy efficiency: reduction of energy consumption by 30%–60%..
- Simple operation: all functions can be terminated by pressing a button.
- Reliability: 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.
- Fully protected: the system incorporates the overcurrent, overvoltage, undervoltage, short-circuit, impeller blocking and dry-running protection technology without the need to install probes/sensors in the well.
- The ability to control the operation of two pumps that supply the system.
- Low-noise operation.

DESIGN

- Pumps x 1/x 2/x 3/x 4/x 5/x 6 - (CV3 – Cv15)
- Frequency converter - IVR-09 (400V) / IVR-11 (400V)
- IBO ITALY steel fittings
- Check and water stop valves and fittings
- IBO ITALY pressure vessel

APPLICATION

- Houses
- Apartments
- Holiday houses
- Agricultural holdings
- Supply of water from the well
- Irrigation of growing houses, gardens, agricultural land
- Collecting and using rainwater

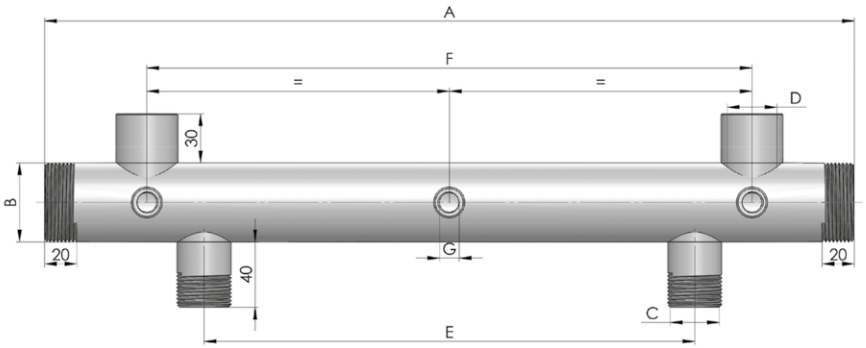


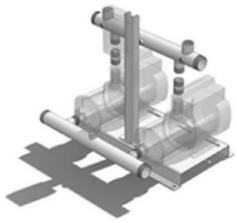
IMAGE: MULTI SET IVR-09/11

PARAMETERS

Name	Head (m)	Flow (m3/h)	Pressure (bar)	Water temp. (°C)	Ambient temp. (°C)	Inlet (mm)	Outlet (mm)
MULTI SET IVR-02	220	5 - 84	16	+90	+40	40 - 50	40 - 50

2-PUMP DELIVERY SIDE MANIFOLD

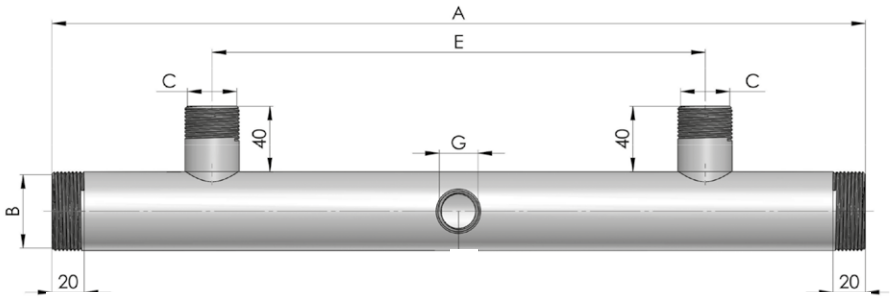


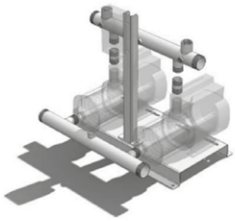


PARAMETERS

Name	A Length (mm)	B Main pipe (cale)	C Inlet/outlet (inch)	D Inlet/outlet (inch)	E Distance between pumps (mm)	F Spacing (mm)	G Outlet (cale)	Weight (kg)
2500	500	1 ½	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	1 ¼ M	1 F	300	370	¼ F	2,45
2510	700	2	1 ¼ M	1 F	360	370	¼ F	2,60
2505	500	2	1 ½ M	1 F	300	370	¼ F	1,50
2511	700	2	1 ½ M	1 F	360	390	¼ F	3,34
2502	500	2 ½	1 ¼ M	1 F	300	370	¼ F	3,00
2513	700	2 ½	1 ¼ M	1 F	360	390	¼ F	3,30
2506	500	2 ½	1 ½ M	1 F	300	370	¼ F	3,10
2512	700	2 ½	1 ½ M	1 F	360	390	¼ F	3,30
2504	700	3	2 M	1 F	360	390	¼ F	5,8
2514	700	DN100*	3 M	1 F	360	390	¼ F	6,00
*flange	Grubość kolektora: 3mm							

2-PUMP SUCTION SIDE MANIFOLD

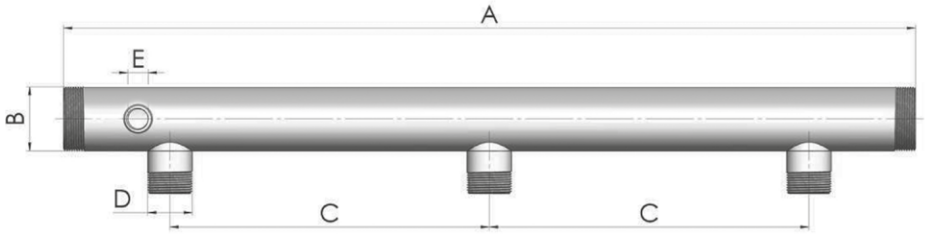


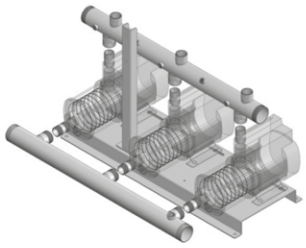


PARAMETERS

Name	A Length (mm)	B Main pipe (cale)	C Inlet/outlet (inch)	E Distance between pumps (mm)	G Outlet (cale)	Weight (kg)
2600	500	1 ½	1 M	300	½ F	1,80
2603	500	2	1 M	300	½ F	2,20
2601	500	2	1 ¼ M	300	½ F	2,22
2605	500	2	1 ½ M	300	½ F	2,22
2611	700	2	1 ½ M	360	½ F	3,10
2609	500	2 ½	1 ¼ M	300	½ F	2,80
2613	700	2 ½	1 ¼ M	360	½ F	3,00
2602	500	2 ½	1 ½ M	300	½ F	2,80
2612	700	2 ½	1 ½ M	360	½ F	3,00
2512	700	2 ½	1 ½ M	360	½ F	3,30
2604	500	3	2 M	300	½ F	3,50
2610	700	3	2 M	360	½ F	3,80
2614	700	DN100*	3 M	360	½ F	6,00
*flange	Manifold thickness: 3mm					

SUCTION SIDE MANIFOLD FOR 3-PUMP SETS

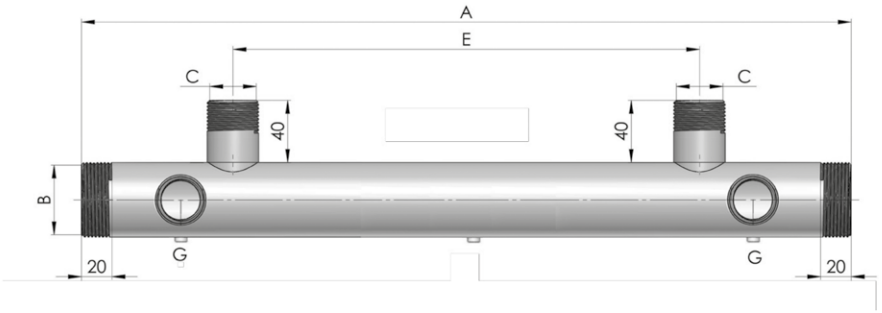


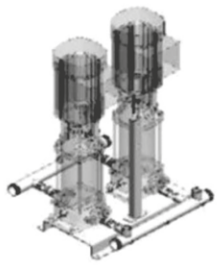


PARAMETERS

Name	A Length (mm)	B Main pipe (cale)	C Distance between pumps (mm)	D Inlet/outlet (inch)	E Outlet (cale)	Weight (kg)
3642	800	2	300	1 M	½ F	3,50
3640	800	2	300	1 ¼ M	½ F	3,70
3643	800	2 ½	300	1 ¼ M	½ F	4,40
3641	800	2 ½	300	1 ½ M	½ F	4,60
3644	800	3	300	2 M	½ F	5,50
3645	800	DN100*	300	3 M	½ F	9,00
*flange	Manifold thickness: 3mm					

DELIVERY SIDE MANIFOLD FOR 2-PUMP VERTICAL SETS



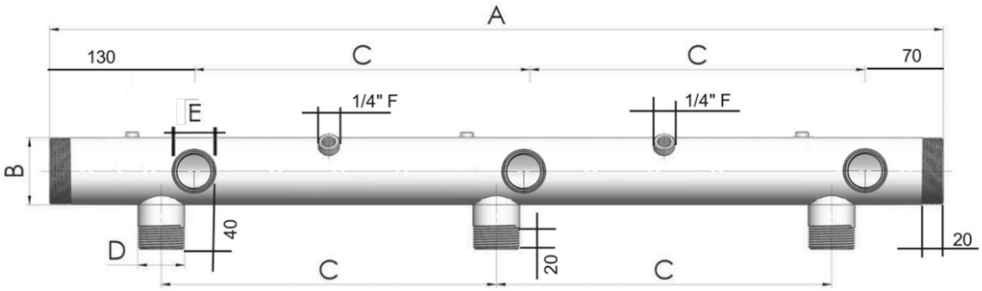


PARAMETERS

Name	A Length (mm)	B Main pipe (cale)	C Inlet/outlet (inch)	E Distance between pumps (mm)	G Outlet (cale)	Weight (kg)
2500 90	500	1 ½	1 M	300	½ F	1,80
2503 90	500	2	1 M	300	½ F	2,20
2501 90	500	2	1 ¼ M	300	½ F	2,22
2510 90	700	2	1 ¼ M	360	½ F	2,22
2505 90	500	2	1 ½ M	300	½ F	3,10
2511 90	700	2	1 ½ M	360	½ F	2,80
2502 90	500	2 ½	1 ¼ M	300	½ F	3,00
2513 90	700	2 ½	1 ¼ M	360	½ F	2,80
2506 90	500	2 ½	1 ½ M	300	½ F	3,00
2512 90	700	2 ½	1 ½ M	360	½ F	3,50
2504 90	700	3	2 M	360	½ F	3.80
	Manifold thickness: 3mm					

DELIVERY SIDE MANIFOLD FOR 3-PUMP VERTICAL SETS

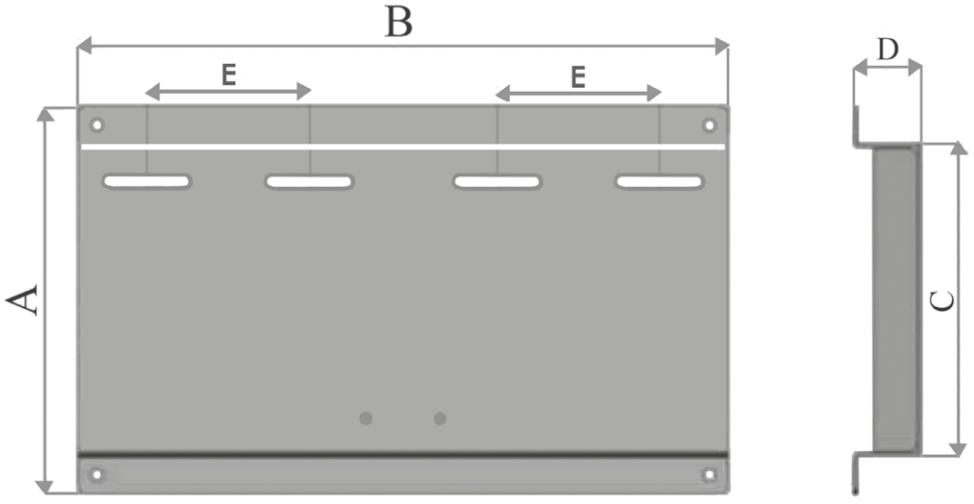




PARAMETERS

Name	A Length (mm)	B Main pipe (inch)	C Distance between pumps (mm)	D Inlet/outlet (inch)	E Inlet/outlet (inch)	F Outlet (cale)	Weight (kg)
2500	800	2	300	1 M	1 F	¼ F	4,00
2503	800	2	300	1 ¼ M	1 F	¼ F	4,30
2501	800	2 ½	300	1 ¼ M	1 F	¼ F	4,80
2510	800	2 ½	300	1 ½ M	1 F	¼ F	5,00
2505	800	3	300	2	1 F	¼ F	5,90
	Manifold thickness: 3mm						

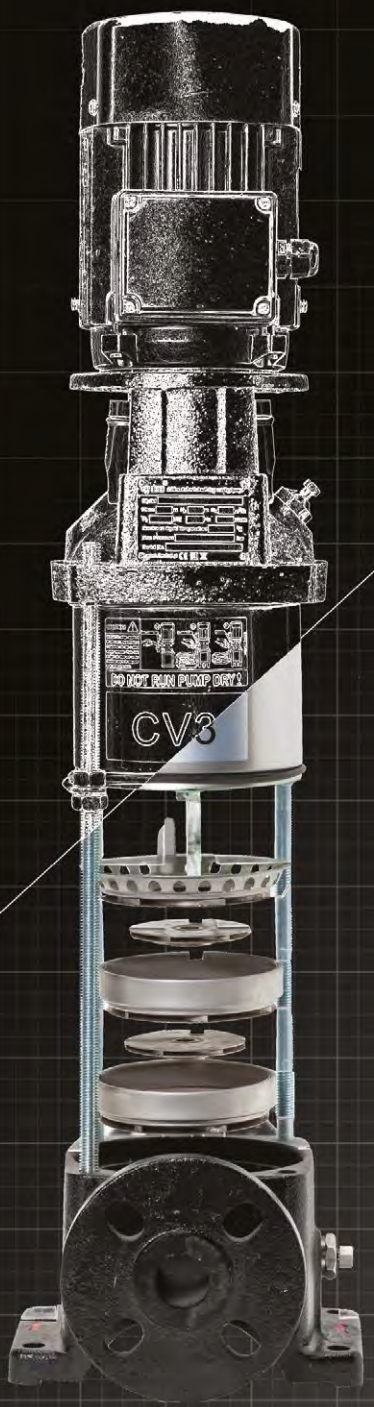
PUMP GROUP BASE PLATE



PARAMETERS

Name	Number of pumps	A (mm)	B (mm)	C (mm)
4805	1 Pump	310	260	250
4800	2 Pumps	310	520	250
4802	2 Pumps	350	620	290
4813	2 Pumps	400	720	340
4803	3 Pumps	310	800	250
4806	3 Pumps	400	900	340
4804	4 Pumps	310	1080	250
4807	4 Pumps	400	1200	340

INDUSTRIAL PUMPS
INDUSTRIEPUMPEN
PRŮMYSLOVÁ ČERPADLA
POMPE INDUSTRIALE
ПРОМЫШЛЕННЫЕ НАСОСЫ



CPM INOX



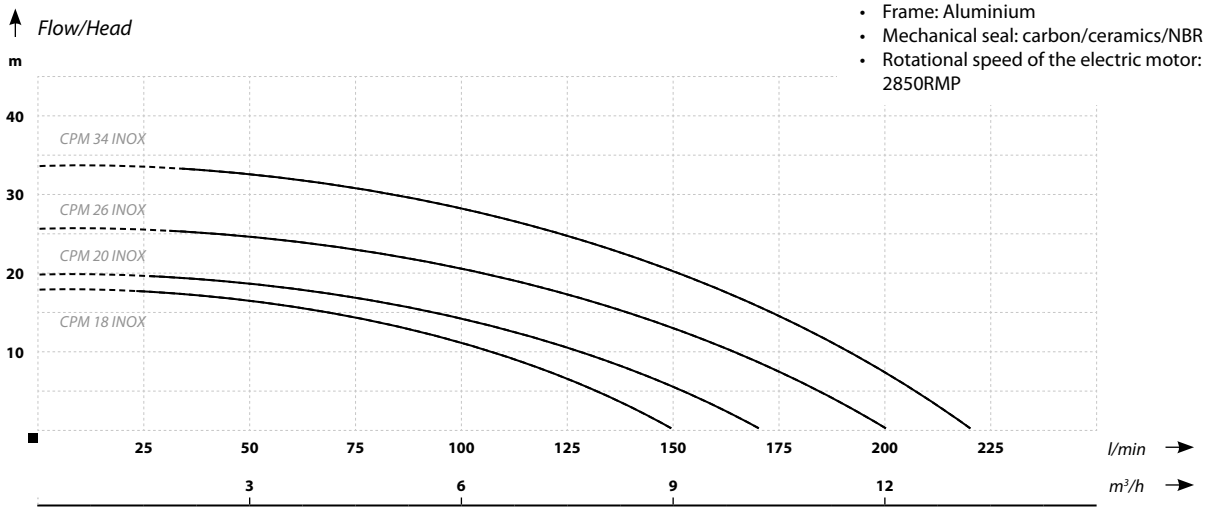


Single-stage non-self-priming centrifugal pumps designed for pumping non-aggressive liquids with non-abrasive and non-absorbent solids content of 0.27 kg/m^3. The maximum temperature of the pumped liquid is up to 60°C. The pump motor is provided with thermal protection mounted in the motor winding. Hydraulic 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, jest 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

F-CPM / PMC INOX

PMC INOX
CENTRIFUGAL SINGLE-STAGE OPEN IMPELLER PUMPS
The pumps are designed for pumping contaminated liquids and substances containing solids with maximum particle diameter of 18 mm. The pumps are used in industrial and agriculture applications.

F-CPM INOX
CENTRIFUGAL SINGLE-STAGE CLOSED IMPELLER PUMPS
The pumps are designed for pumping slightly contaminated liquids and substances containing solids with maximum particle diameter of 1 mm. The pump is designed for pumping water with a maximum non-absorbent free solid content of 0.26 kg/m^3, and
with a maximum dissolved solid content of 51 kg/m3, provided that the total gas content in the water does not exceed the saturation volume.

Application:

- Food industry: in washers and cleaning machines, for conveying food liquids, transferring suspended solids in food processing, fish farms
- Metalworking industry
- Textile industry: pumps are used in dye houses.
- Manufacturing industry: cleaning bottles, cans, glass
- Agriculture: pumps can be used for conveying moderately viscous slightly corrosive liquids, they can be used for pumping fertilizers. Pumps are also used for irrigation and drainage.
- Swimming pool systems
- HVAC industry: in air conditioning and heating systems

Operating conditions:

- Liquid temperature for PMC: 15-104oC
- Liquid temperature for F-PMC: 5-90oC
- Ambient temperature: up to 50oC
- Maximum pressure in the system: up to 10 bar
- Ingress Protection: IP55
- Winding insulation class: 155 (F)

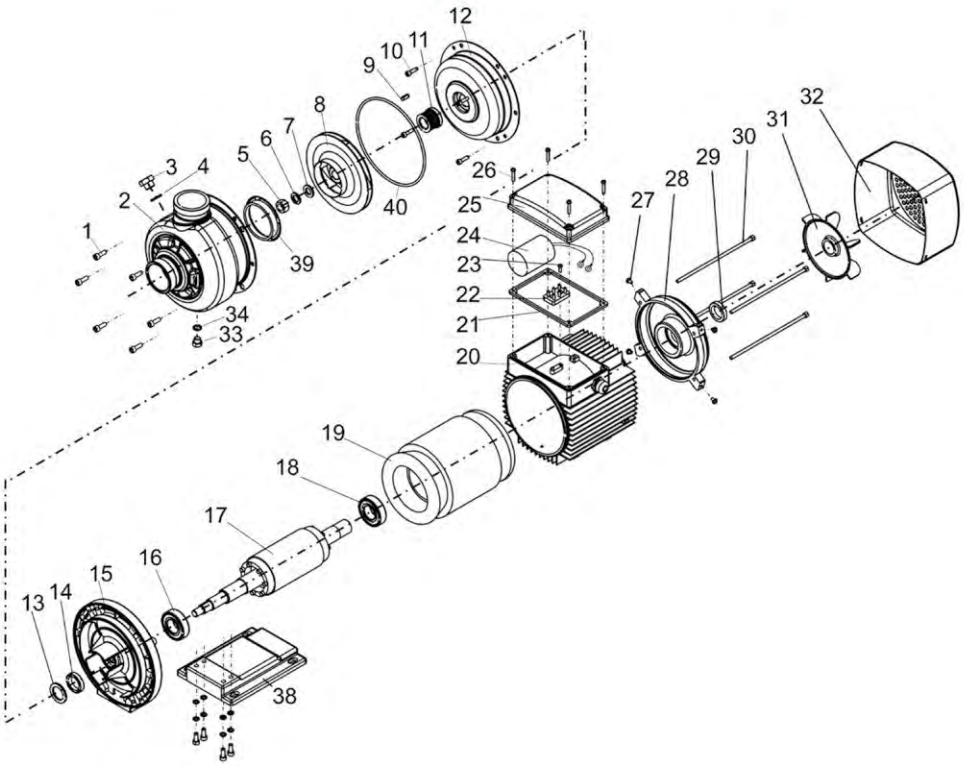
Materials:

- Motor: asynchronous enclosed squirrel-cage with aluminium housing and external cooling.
- Shaft: Stainless steel AISI 304
- Housing: Stainless steel AISI 304
- Impeller: Stainless steel AISI 304
- Pump end plate: Stainless steel AISI 304
- Mechanical seal: graphite/silicon carbide/ NBR.

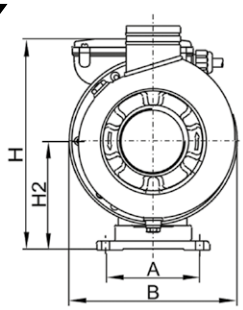


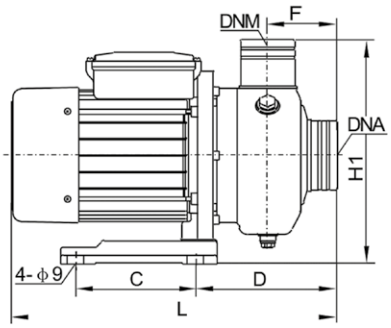
IMAGE: F-CPM INOX

IMAGE: PMC INOX

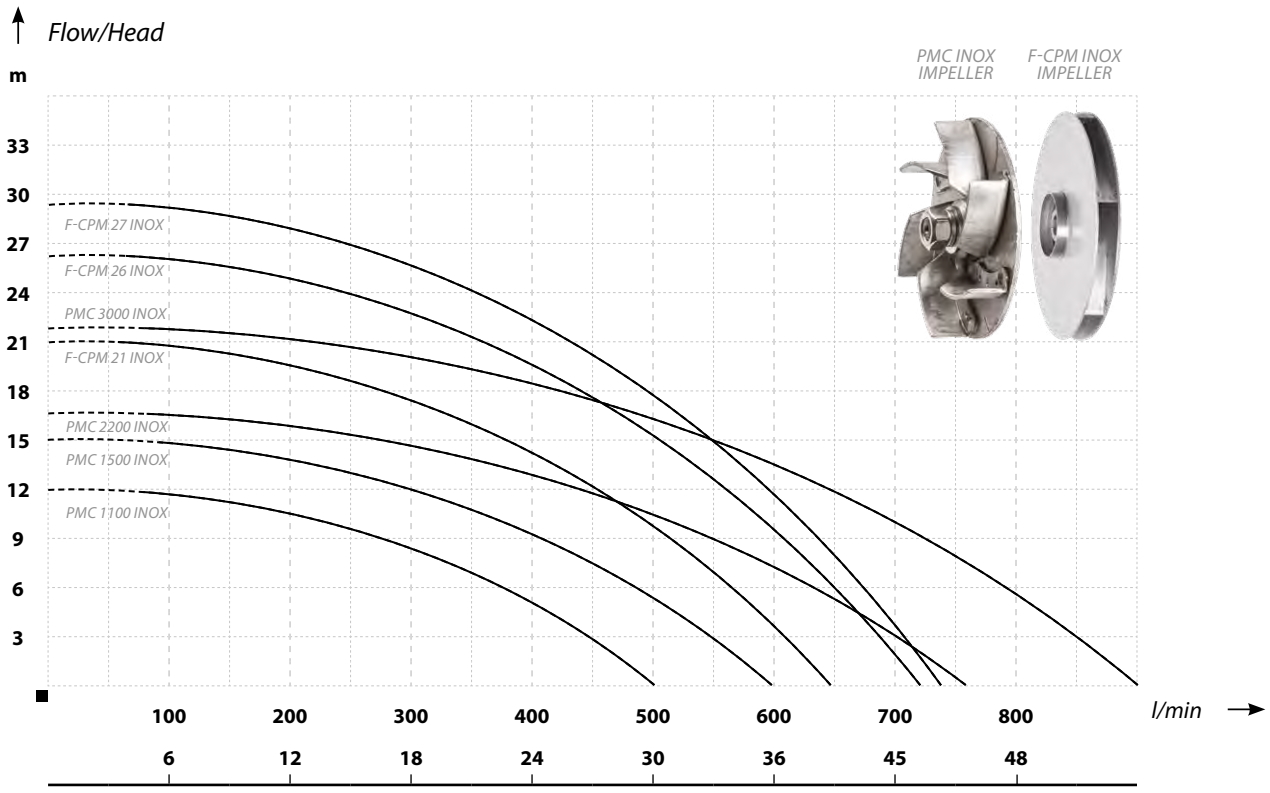


F-CPM / PMC INOX





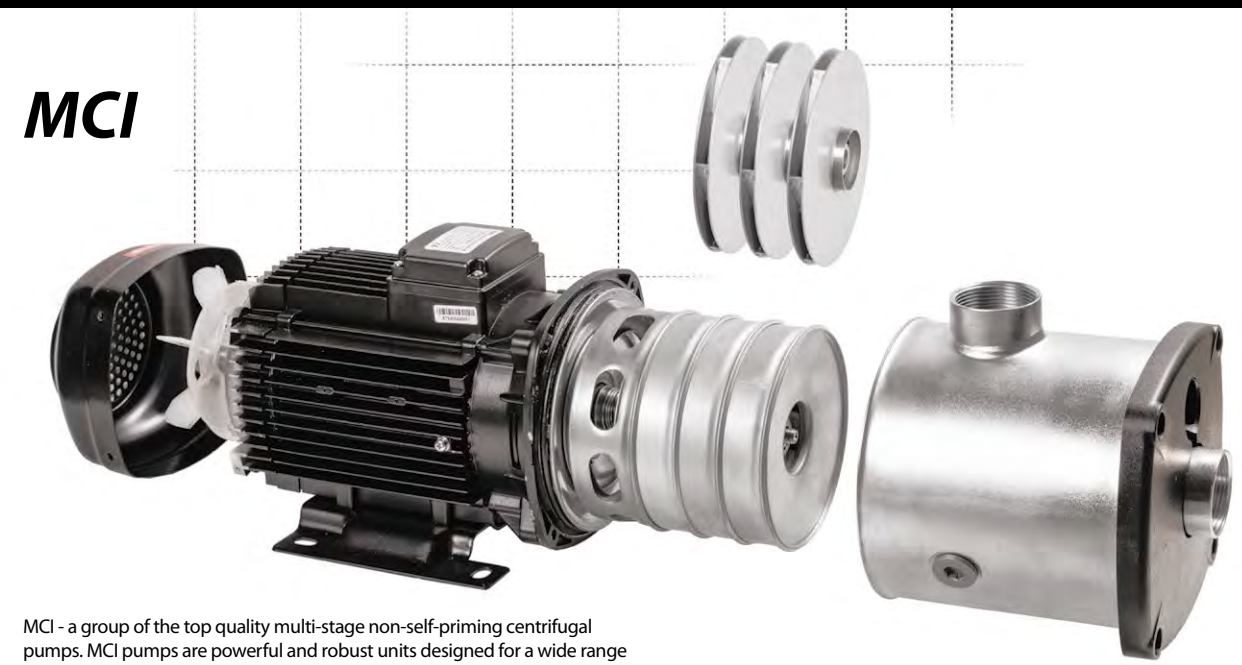
Name	A	B	C	D	F	L	H	H1	H2	DNM	DNA
F-CPM 21 INOX	108	193	138	165	82	378	243	258	125	G2	G2
F-CPM 26 INOX	108	193	138	165	82	415	242	258	125	G2	G2
F-CPM 27 INOX	108	193	138	165	82	432	242	258	125	G2	G2
PMC 1100 INOX	108	193	138	165	82	378	242	258	125	G2	G2
PMC 1500 INOX	108	193	138	165	82	378	242	258	125	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



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
F-CPM 21 INOX	21	650	1500	230	9,2	2 x 2	18
F-CPM 26 INOX	26	710	2200	230	14	2 x 2	22
F-CPM 27 INOX	29	740	3000	400	11,3/6,5	2 x 2	23,4
PMC 1100 INOX	12	500	1100	230	7	2 x 2	16
PMC 1500 INOX	15	600	1500	230	9,2	2 x 2	17,4
PMC 2200 INOX	17	770	2200	230	14	2½ x 2	22
PMC 3000 INOX	22	930	3000	230	10/6,3	2½ x 2	23

MCI



MCI - a group of the top quality multi-stage non-self-priming centrifugal pumps. MCI pumps are powerful and robust units designed for a wide range of applications, from small home installations to continuous operation in large industrial systems. Hydraulic components are entirely made of AISI 304 (DIN 1.4301) stainless steel and reinforced mechanical seal allows to use liquids with temperatures of up to 70 degrees. MCI pumps provide flow of 3 m3 to 30 m3 per hour, and as a result they can be used in a wide range of applications.

APPLICATION:

Households:
- supply of water
- irrigation (including cooperation with sprinklers)
- increasing pressure
- utilizing rainwater



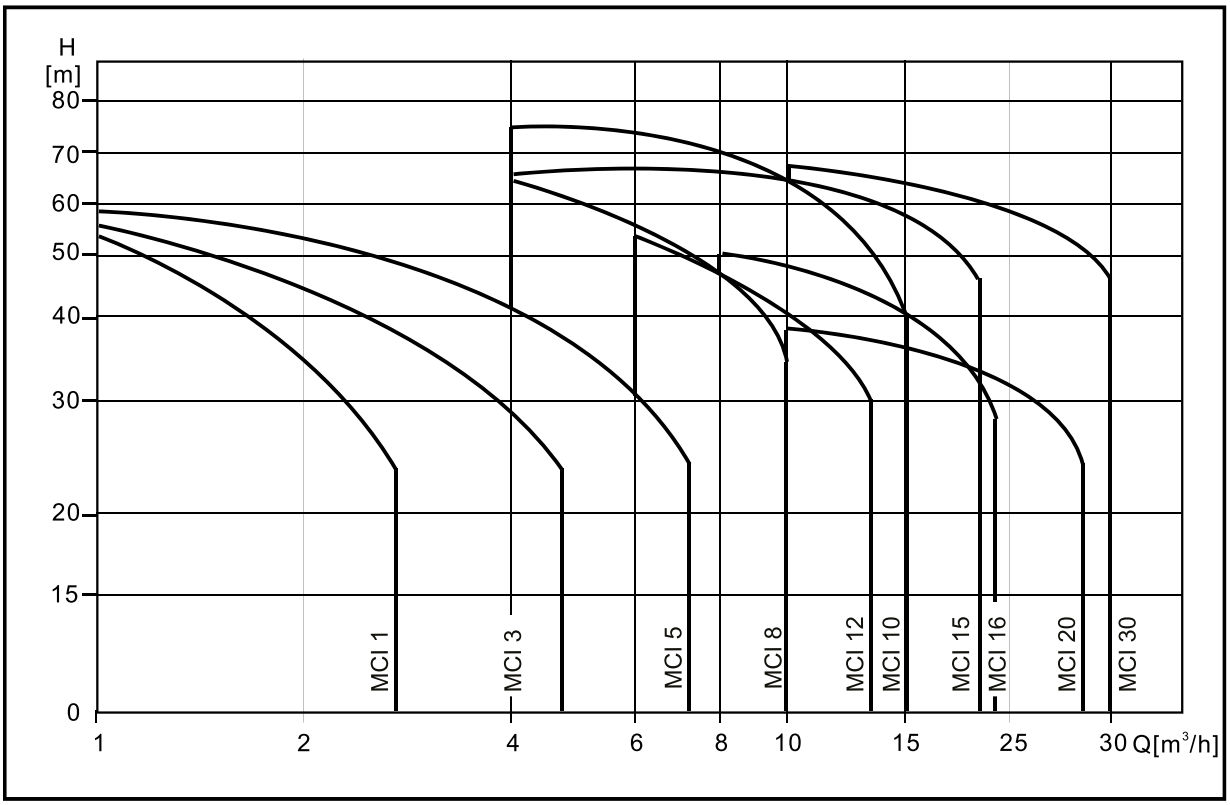
Industrial applications:
- Jet washers
- Air conditioning systems
- Cooling systems: refrigerant pumping
- Heating systems: hot water and glycol pumping
- Maintaining pressure in livestock buildings
- Systems increasing humidity and temperature
- Increasing pressure in building utility systems
- Pumping of moderately viscous slightly corrosive liquids
- Food industry: in washers and cleaning machines, for conveying food liquids

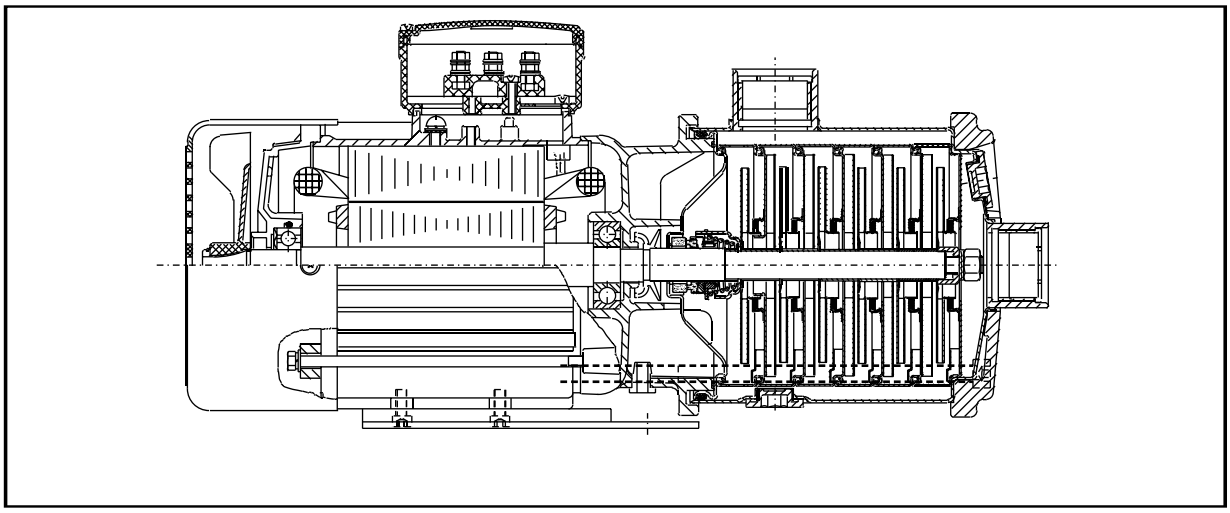
Agriculture:
- Agriculture:
- pumping and dosing fertilizers (not corrosive to AISI 304 steel)
- Maintaining pressure in livestock buildings

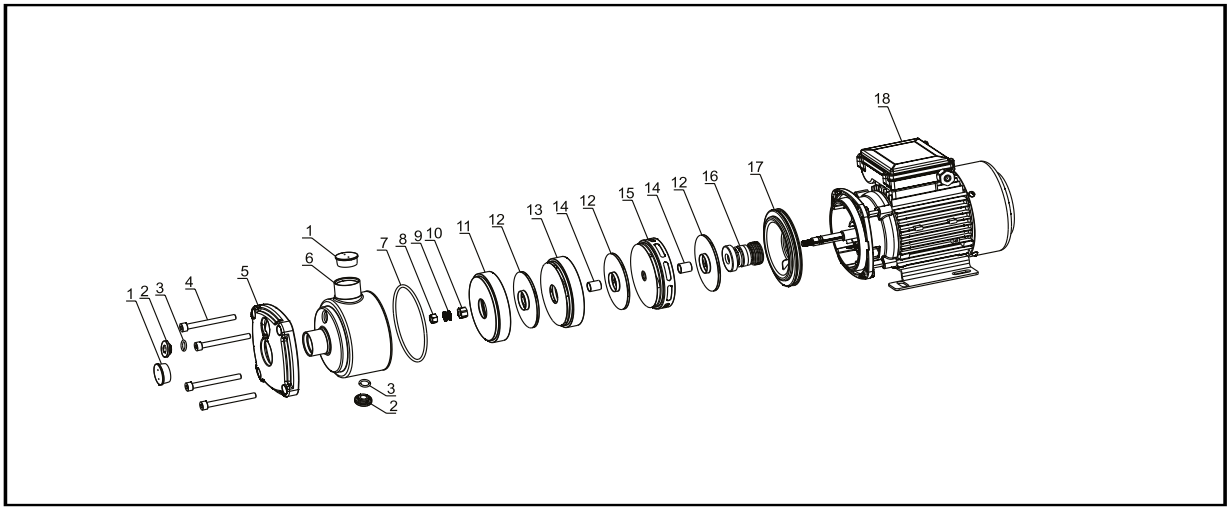


Operating conditions:
- Liquid temperature: ≤70°C
- Ambient temperature: ≤50°C
- Maximum pressure in the system: up to 8 bar
- Ingress Protection: IP55
- Insulation class: F

Materials:
- Body - Stainless steel AISI 304.
- Shaft - Stainless steel AISI 304.
- Mechanical seal – SIC/SIC/EPDM
- Inlet/outlet: Stainless steel AISI 304
- Impellers, Venturi tubes, Venturi tube coverplates
- – Stainless steel AISI 304.
- Pump end plate: Stainless steel AISI 304
- Base plate: Steel
- Motor: asynchronous enclosed squirrel-cage with aluminium housing and external cooling


H
[m]
80
70
60
50
40
30
20
15
0
1
2
4
6
8
10
15
25
30 Q[m³/h]
MCI 1
MCI 3
MCI 5
MCI 8
MCI 12
MCI 10
MCI 15
MCI 16
MCI 20
MCI 30




1 2 3 4 5 6 1 7 8 9 10 11 12 13 14 12 15 14 12 16 17 18 3 2

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

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

Model	Power		Ampe-rage	Flow l/min	17	25	33	41	50	58	67	75	83	91	100
	kW	Hp	A	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	2,4	H (m)	18,5	18	17,5	17	16	15,5	15	13,5	13	11	10
MCI 5-3	0,55	0,75	3,8		29	28,5	28	27	26,5	25,5	25	23	22	20	18
MCI 5-4	0,75	1	5,2		38	37	36	34	35,5	32	30	28	27	24	20
MCI 5-5	1	1,35	6,2		47	46	45	44	42,5	41	40	36	35	32	27
MCI 5-6	1,3	1,7	8,4		56,5	55	54	53	52,5	51	49	45	44	42	36
MCI 5-7	1,5	2	9,2		67	65	64	61	59	57	55	51	49	44	38

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

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

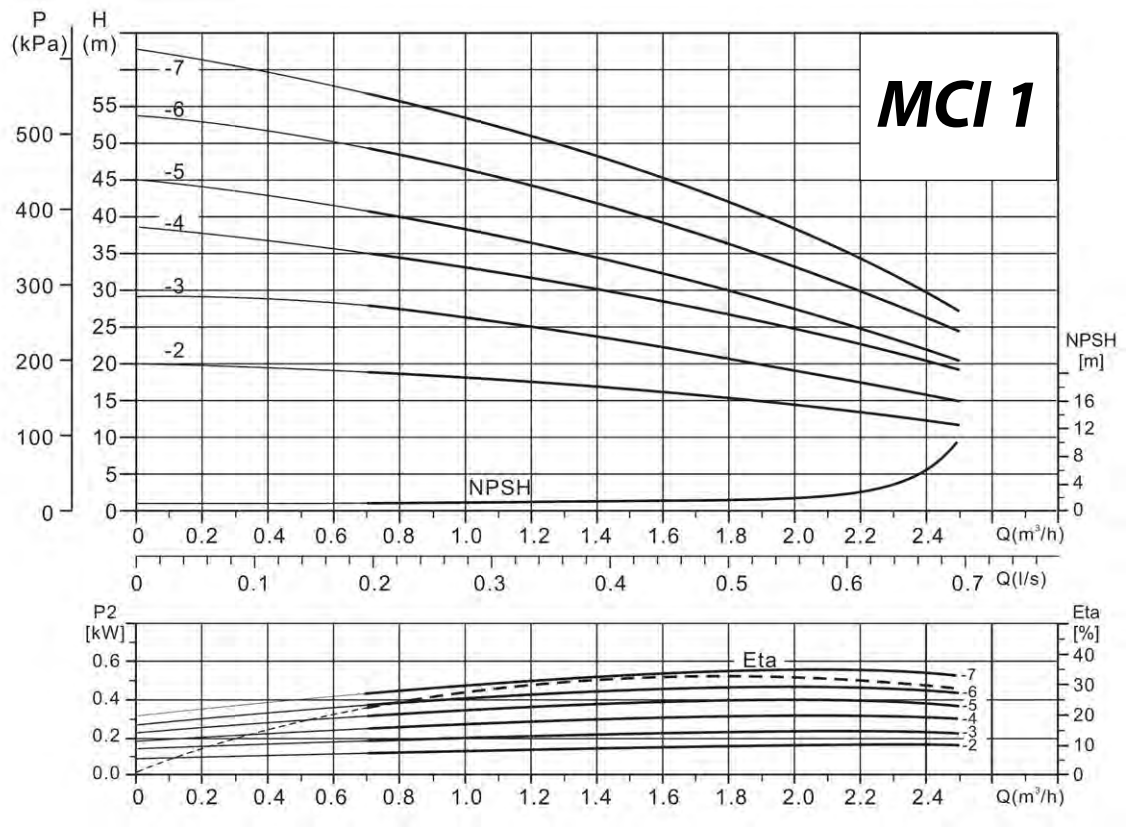
Model	Power		Ampe-rage	Flow l/min	100	117	134	150	167	184	200	217	234
	kW	Hp	A	m3/h	6	7	8	9	10	11	12	13	14
MCI 12-10	1	1,35	6,2	H (m)	19	18	17,5	16	15,5	14	13,5	12	10,5
MCI 12-15	1,5	2	9,2		28	27	26	25	24	22	19	18	15
MCI 12-20	1,85	2,5	4,1		34	36	32	32	29	29	26	24	22
MCI 12-25	2,2	3	4,9		47	45	43	41,5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

Model	Power		Ampe-rage	Flow l/min	100	134	167	200	234	250	267	284	300	317	334
	kW	Hp	A	m3/h	6	8	10	12	14	15	16	17	18	19	20
MCI 15-1	1,2	1,65	8,2	H (m)	15,5	15	14,5	14	13	12	11,5	11	11	10,5	10
MCI 15-2	2,2	3	14		32	31,5	31	30,2	29,5	29	28	27	26	24	22
MCI 15-3	4	5,5	9,6		49	48	47,5	47	46	44	43	42	40	37	36
MCI 15-4	5,5	7,5	11,1		67	66	65	64	62	61	57	56	54	52	49

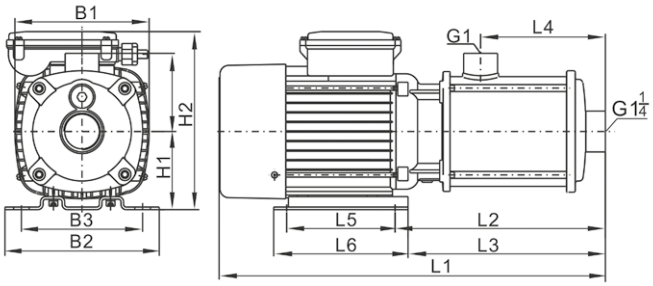
Model	Power		Ampe-rage	Flow l/min	134	167	200	234	267	300	334	367	400
	kW	Hp	A	m3/h	8	10	12	14	16	18	20	22	24
MCI 16-10	1	1,35	6,2	H (m)	12	11,5	11	10,5	10	9	8	7	6
MCI 16-20	1,5	2	9,2		24	23	22	21	20	19	16	14	12
MCI 16-30	2,2	3	4,9		38	36	34	33	30	28	26	23	20
MCI 16-40	3	4	6,3		50	48	46	44	40	38	36	32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

Model	Power		Ampe-rage	Flow l/min	167	200	234	267	300	334	367	400	434	467
	kW	Hp	A	m3/h	10	12	14	16	18	20	22	24	26	28
MCI 20-10	1	1,35	2,4	H (m)	13	12,5	12	11,5	11	8	10	9	8,5	7,5
MCI 20-20	1,85	2,5	4,1		25	24	23	22	21	18	18	16	14	12
MCI 20-30	3000	4	6,3		39	38	36	35	33	28	30	27	24	21
MCI 20-40	4000	5,5	9,6		52	50	48	47	44	42	39	35	31	27

Model	Power		Ampe-rage	Flow l/min	134	167	200	234	267	300	334	367	400	434	467
	kW	Hp	A	m3/h	8	10	12	14	16	18	20	22	24	26	28
MCI 30-1	2,2	3	2,4	H (m)	15,5	15	15	14,5	14	13,5	13	12	11,5	11	10
MCI 30-2	4	5,5	3,5		33	32,5	32	31,5	31	30,5	30	28	27	26	24
MCI 30-3	5,5	7,5	4,9		50	50	50	49	48	47	46	45	43	41	38
MCI 30-4	7,5	10	6,3		66	66	66	66	66	65	64	62	58	56	52

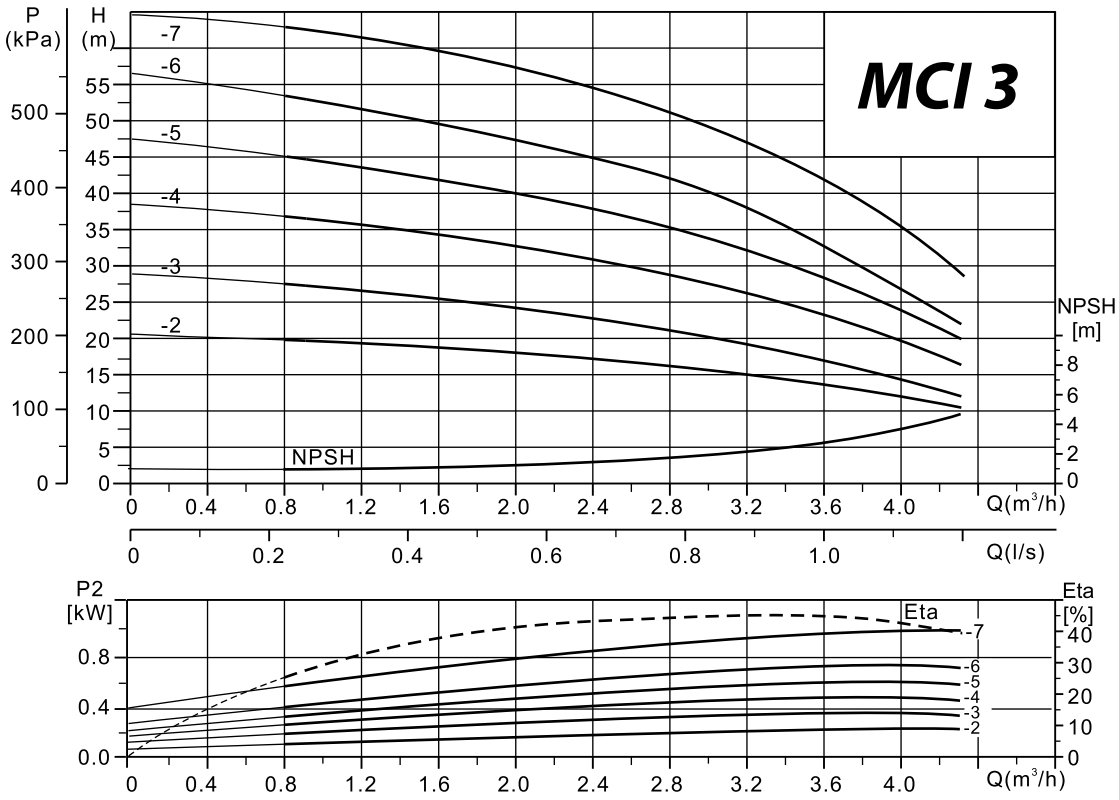


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L3	L4
MCI 1-2	158	125	75	170	318	131	72	96
MCI 1-3	158	125	75	170	318	131	72	96
MCI 1-4	158	125	75	170	336	149	90	96
MCI 1-5	158	125	75	170	354	167	108	96
MCI 1-6	158	125	75	170	390	203	144	96
MCI 1-7	158	125	75	170	390	203	144	96

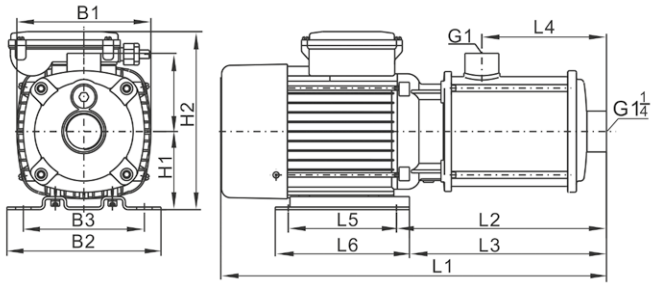


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 1-2	20	50	250	230 / 50	1,6	1 x 1	7,6
MCI 1-3	29	50	250	230 / 50	1,6	1 x 1	8
MCI 1-4	38	50	370	230 / 50	2,4	1 x 1	8,3
MCI 1-5	45	50	370	230 / 50	2,4	1 x 1	8,6
MCI 1-6	54	50	370	230 / 50	2,4	1 x 1	9
MCI 1-7	63	50	550	230 / 50	3,8	1 x 1	10

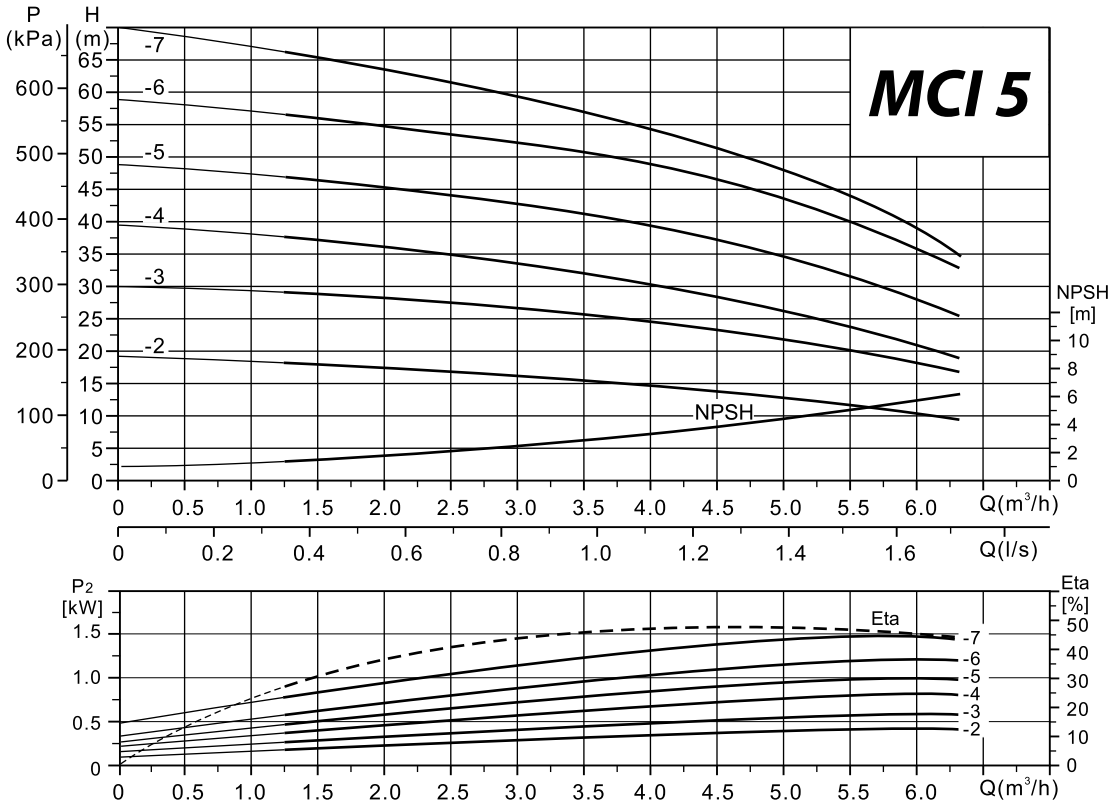


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 3-2	158	125	75	170	318	131	72	96
MCI 3-3	158	125	75	170	318	131	72	96
MCI 3-4	158	125	75	170	336	149	90	96
MCI 3-5	158	125	75	170	383	167	108	96
MCI 3-6	158	125	75	170	416	203	144	96
MCI 3-7	158	125	75	170	416	203	144	96

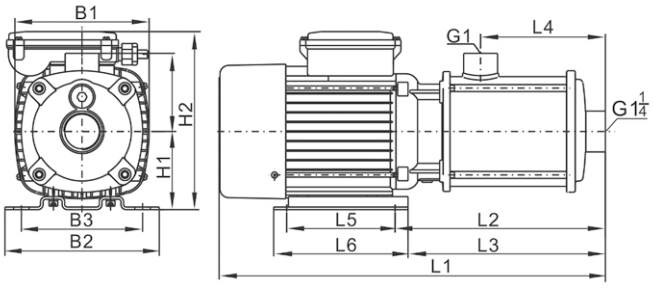


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 3-2	21	85	250	230 / 50	1,6	1 x 1	7,4
MCI 3-3	28,5	85	370	230 / 50	2,4	1 x 1	7,5
MCI 3-4	38	85	550	230 / 50	3,8	1 x 1	10
MCI 3-5	47,5	85	550	230 / 50	3,8	1 x 1	10,5
MCI 3-6	56,5	85	750	230 / 50	5,2	1 x 1	12
MCI 3-7	67	85	100	230 / 50	6,2	1 x 1	13

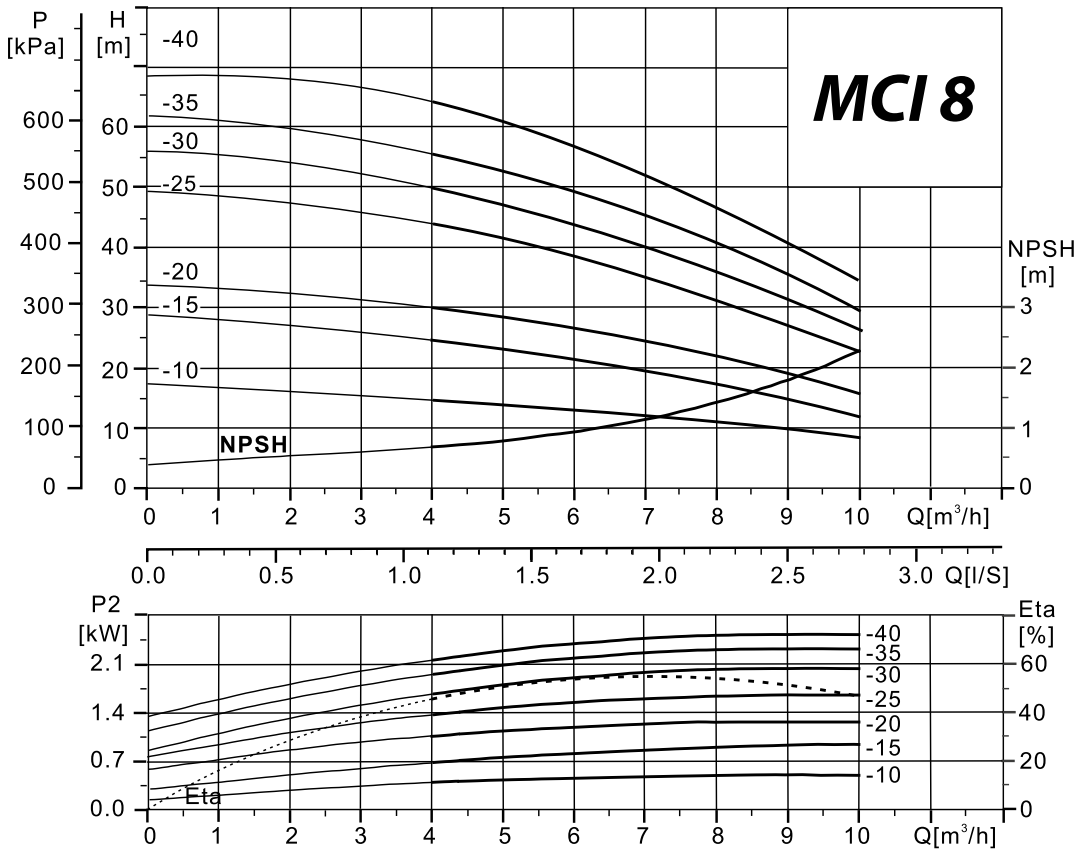


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 5-2	158	125	75	170	318	131	72	96
MCI 5-3	158	125	75	170	347	131	72	96
MCI 5-4	158	125	75	182	362	149	90	96
MCI 5-5	158	125	75	182	380	167	108	96
MCI 5-6	178	140	90	209	446	243	144	125
MCI 5-7	178	140	90	224	446	243	144	125

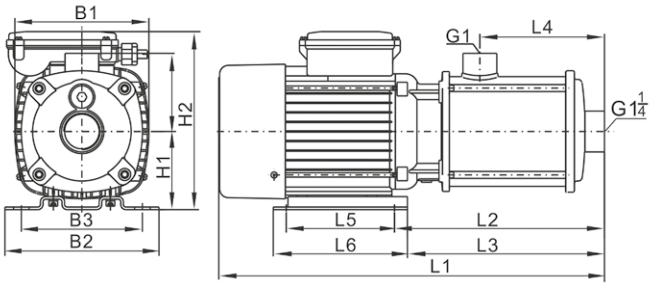


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 4-2	19,5	130	370	230 / 50	2,4	1 1/4 x 1	8
MCI 5-3	30	130	550	230 / 50	3,8	1 1/4 x 1	10
MCI 5-4	39,5	130	750	230 / 50	5,2	1 1/4 x 1	11,5
MCI 5-5	48	130	1000	230 / 50	6,2	1 1/4 x 1	12,5
MCI 5-6	58,5	130	1300	230 / 50	8,8	1 1/4 x 1	15
MCI 5-7	70	130	1500	230 / 50	9,2	1 1/4 x 1	17

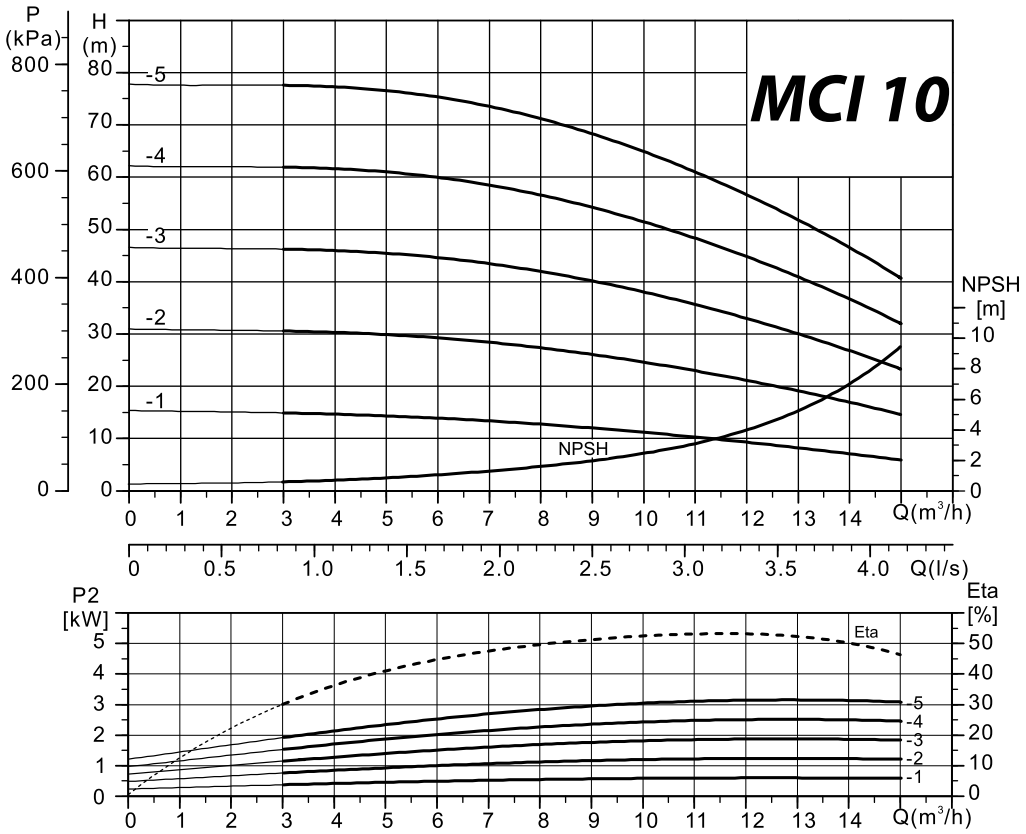


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 8-10	158	125	100	206	377	185	100	96
MCI 8-15	158	125	100	206	377	185	100	96
MCI 8-20	158	125	100	206	377	185	100	96
MCI 8-25	158	125	100	232	408	200	100	96
MCI 8-30	199	160	100	244	449	200	100	140
MCI 8-35	199	160	100	244	479	230	130	140
MCI 8-40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

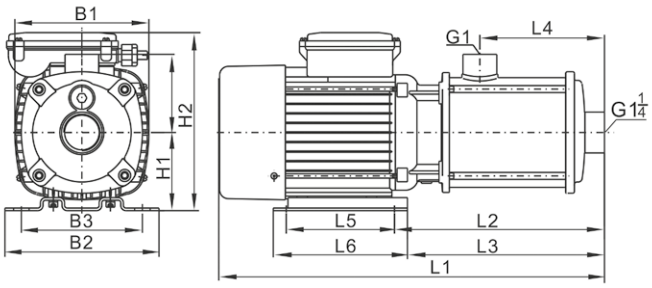


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 8-10	4	200	550	230 / 50	3,8	1 ½ x 1 ½	10
MCI 8-15	17,5	200	750	230 / 50	5,2	1 ½ x 1 ½	11
MCI 8-20	29	200	1000	230 / 50	6,2	1 ½ x 1 ½	13
MCI 8-25	34,5	200	1500	230 / 50	9,2	1 ½ x 1 ½	16
MCI 8-30	54	200	1850	230 / 50	12,2	1 ½ x 1 ½	21
MCI 8-35	62	200	2200	230 / 50	14	1 ½ x 1 ½	22
MCI 8-40	70	200	2200	230 / 50	14	1 ½ x 1 ½	23

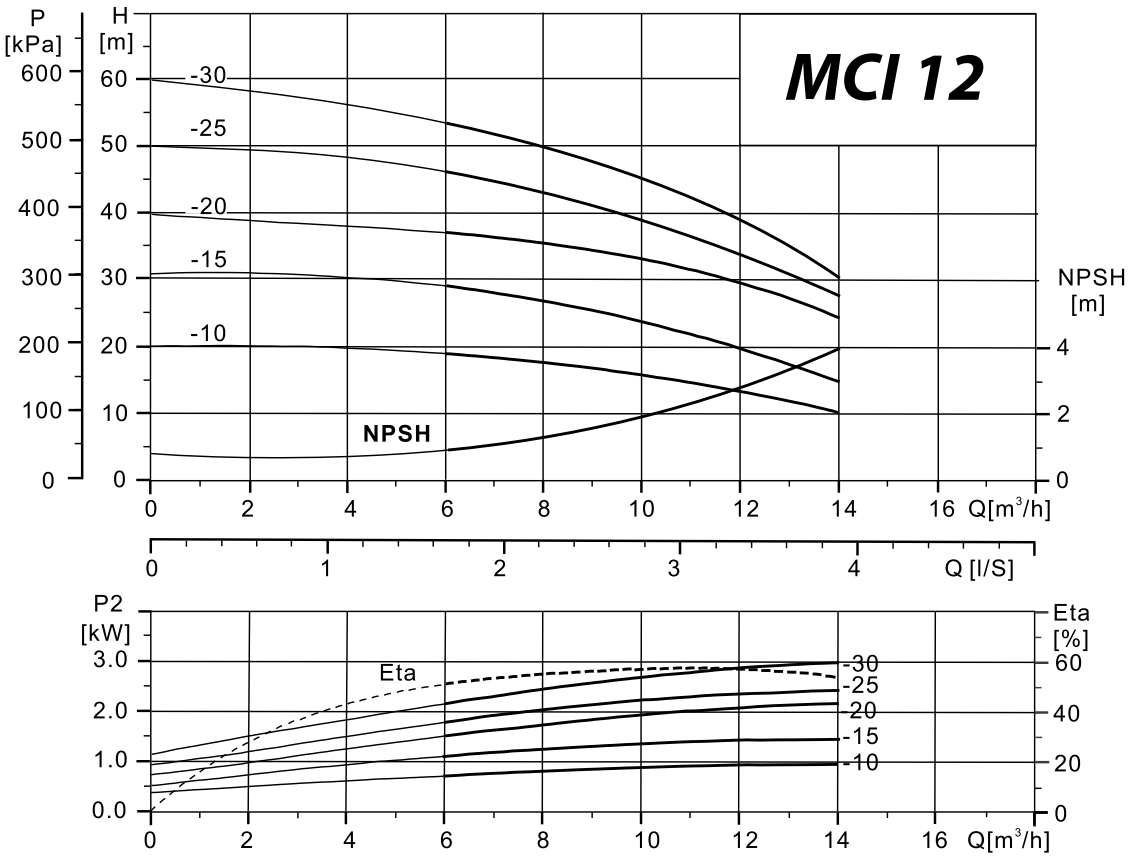


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 10-1	158	125	100	206	383	185	100	96
MCI 10-2	158	125	100	214	412	200	100	96
MCI 10-3	199	160	100	244	448	200	100	140
MCI 10-4	199	160	100	212	498	230	130	140
MCI 10-5	199	160	100	212	558	290	190	140

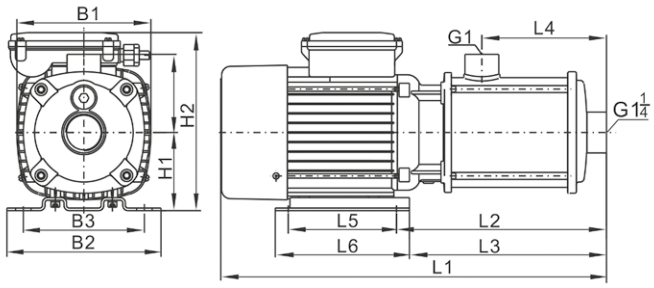


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 10-1	15,5	300	650	230 / 50	4,4	1 ½ x 1 ½	10
MCI 10-2	31,5	300	1200	230 / 50	8,1	1 ½ x 1 ½	12
MCI 10-3	46,5	300	2200	230 / 50	14	1 ½ x 1 ½	22
MCI 10-4	62,5	300	3000	400 / 50	6,3	1 ½ x 1 ½	25
MCI 10-5	78	300	3000	400 / 50	6,3	1 ½ x 1 ½	26

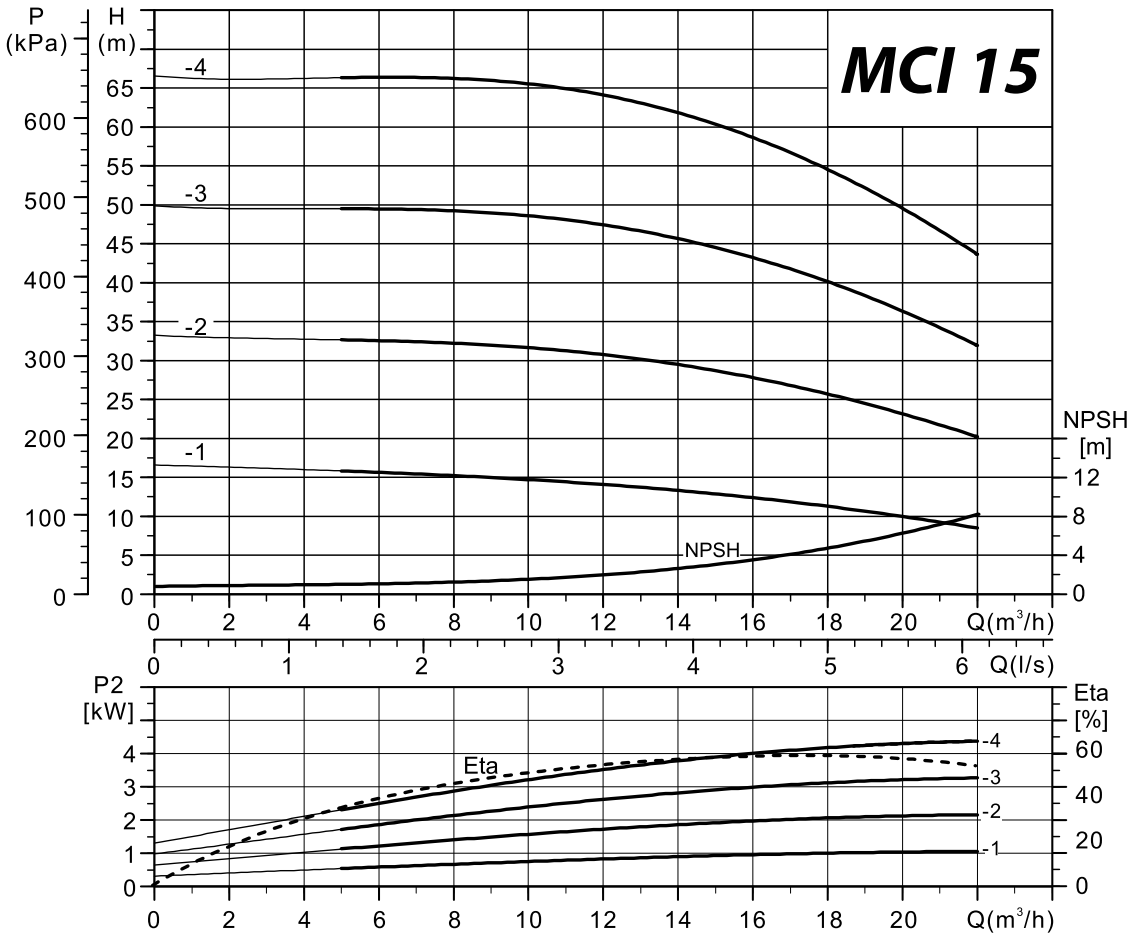


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 12-10	158	125	100	206	377	185	100	96
MCI 12-15	158	125	100	232	408	200	100	96
MCI 12-20	158	160	100	244	449	200	100	140
MCI 12-25	158	125	100	212	409	200	100	96
MCI 12-30	199	160	100	212	469	200	100	140

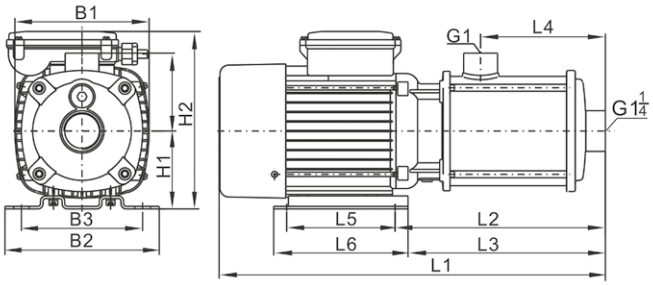


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 12-10	20	285	1000	230 / 50	6,2	1 ½ x 1 ½	11
MCI 12-15	31	285	1500	230 / 50	9,2	1 ½ x 1 ½	13
MCI 12-20	40	285	1850	400 / 50	4,1	1 ½ x 1 ½	20
MCI 12-25	50	285	2200	400 / 50	4,9	1 ½ x 1 ½	23
MCI 12-30	60	285	3000	400 / 50	6,3	1 ½ x 1 ½	26

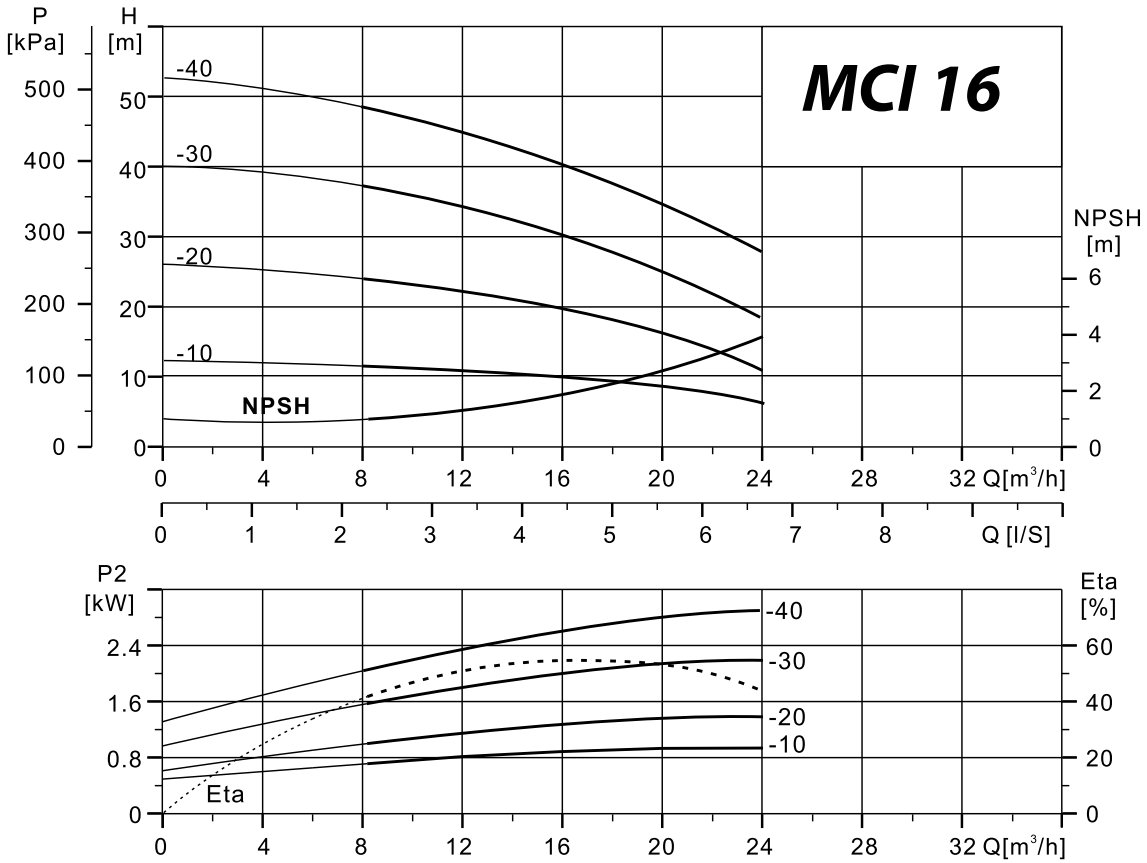


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 15-1	158	125	100	214	412	200	100	96
MCI 15-2	199	160	100	212	448	200	100	140
MCI 15-3	199	160	100	260	510	235	100	140
MCI 15-4	228	190	100	296	590	288	130	140

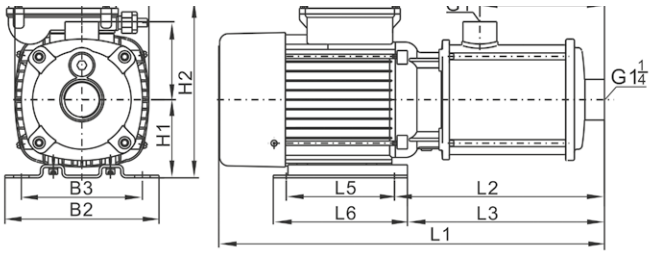


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 15-1	16,5	400	1200	230 / 50	8,2	2 x 2	12
MCI 15-2	33	400	2200	230 / 50	14	2 x 2	21
MCI 15-3	50	400	4000	400 / 50	9,6	2 x 2	29
MCI 15-4	67	400	5500	400 / 50	11,1	2 x 2	35

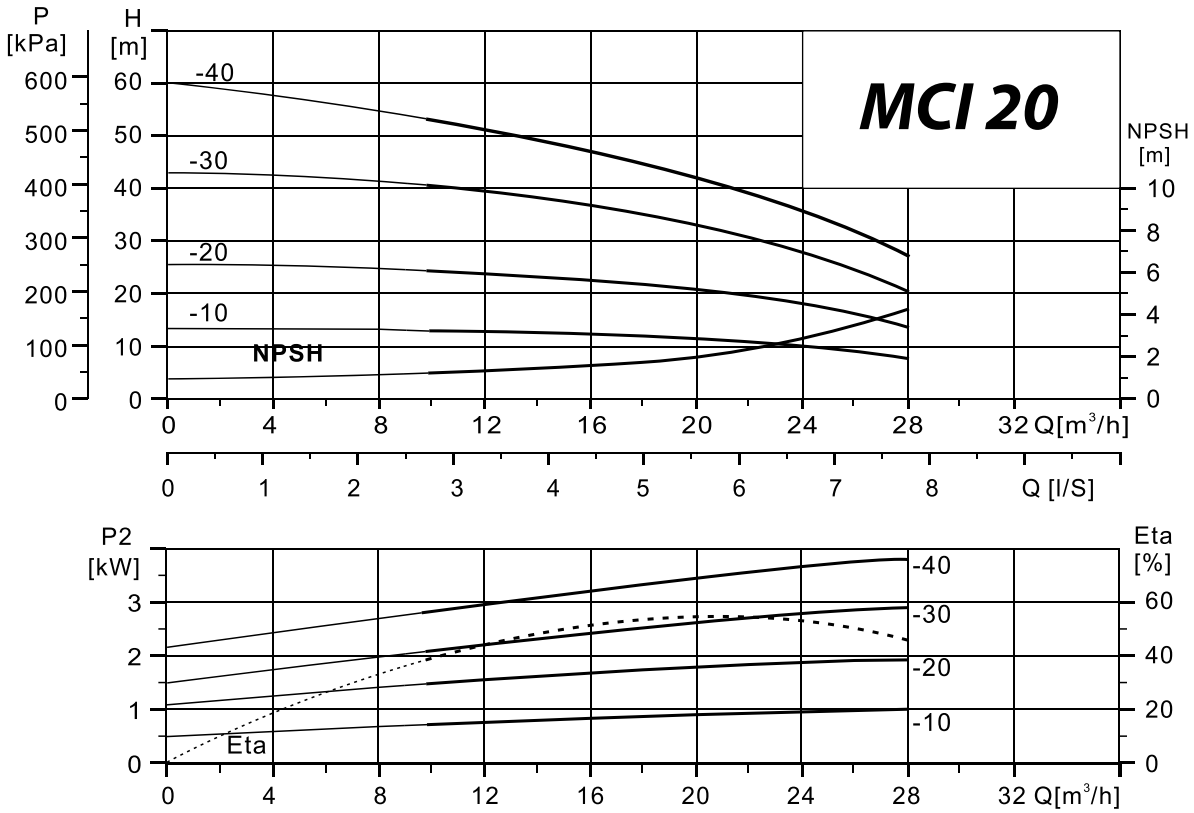


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 16-10	158	125	100	212	408	215	130	96
MCI 16-20	158	125	100	217	439	230	130	96
MCI 16-30	199	160	100	212	580	230	130	140
MCI 16-40	199	160	100	212	545	275	175	140

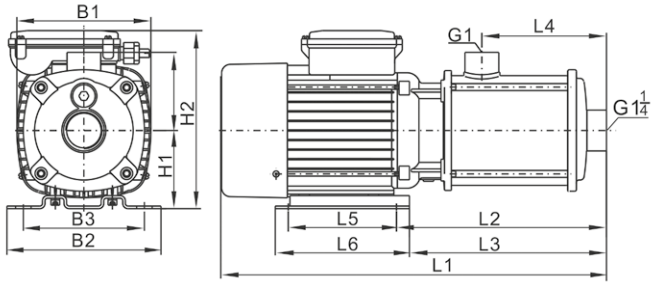


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 16-10	12,5	450	1000	400 / 50	2,4	2 x 2	13
MCI 16-20	27	450	1500	230 / 50	3,5	2 x 2	16
MCI 16-30	40	450	2200	400 / 50	4,9	2 x 2	22
MCI 16-40	53	450	3000	400 / 50	6,3	2 x 2	27

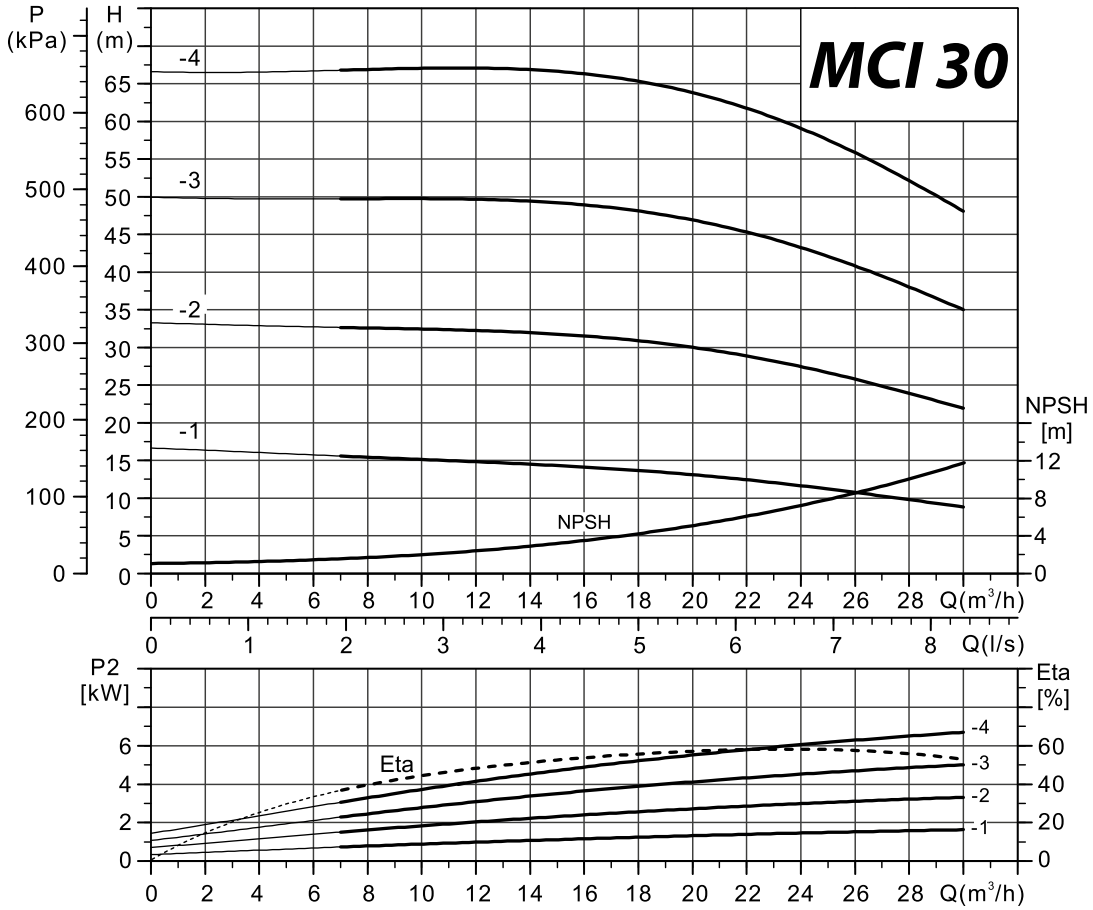


Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 20-10	158	125	100	212	408	215	130	96
MCI 20-20	158	125	100	217	439	230	130	96
MCI 20-30	199	160	100	212	500	230	130	140
MCI 20-40	199	160	100	252	561	297	175	140

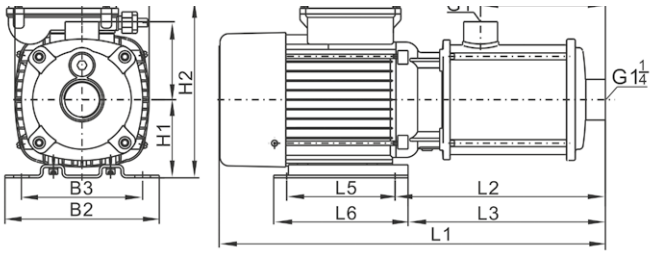


PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 20-10	14	500	1000	400 / 50	2,4	2 x 2	19
MCI 20-20	26	500	1850	400 / 50	4,1	2 x 2	21
MCI 20-30	43	500	3000	400 / 50	6,3	2 x 2	24
MCI 20-40	60	500	4000	400 / 50	9,6	2 x 2	28



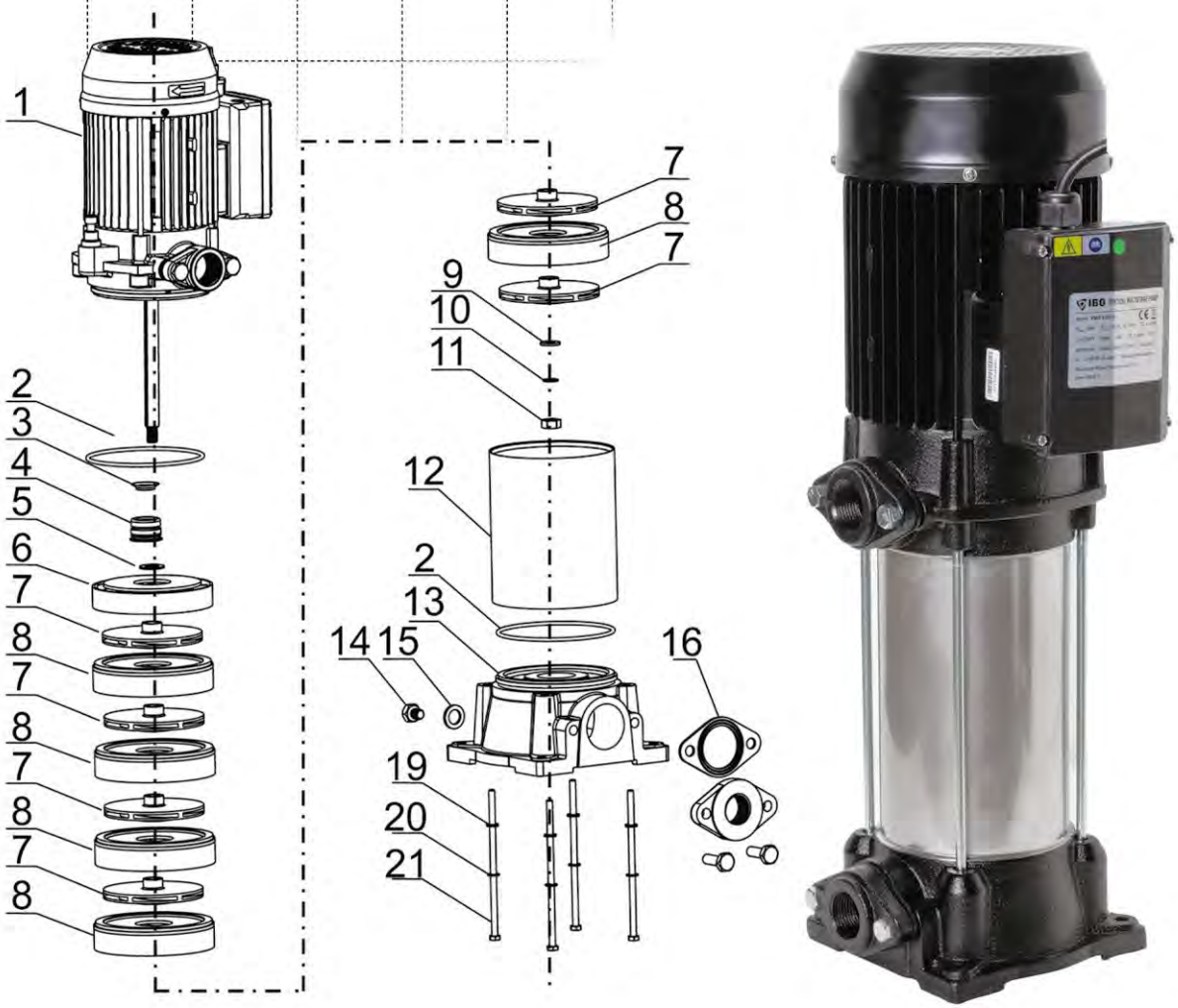
Model	Dimensions (mm)							
	B2	B3	H1	H2	L1	L2	L4	L5
MCI 30-1	199	160	100	217	448	200	100	140
MCI 30-2	199	160	100	260	510	235	100	140
MCI 30-3	228	190	100	295	560	235	100	140
MCI 30-4	228	190	100	295	620	288	130	140



PARAMETERS

	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
MCI 30-1	16,5	600	2200	400 / 50	4,9	2 x 2	10
MCI 30-2	33	600	4000	400 / 50	9,6	2 x 2	24
MCI 30-3	50	600	5500	400 / 50	11,1	2 x 2	38
MCI 30-4	62	600	7500	400 / 50	14,9	2 x 2	52

VMH



The pumps are designed to work in pressure boosting systems in civil engineering, industrial applications and agriculture. They are designed for pumping clean water or other non-corrosive, non-flammable and non-explosive liquids of consistency similar to water. Due to compact design, the pump to be installed in various machines that require high pressure water supply. High temperature resistant and reinforced hydraulic components, mechanical seal and thrust bearing allow to pump liquids with temperatures of up to 70oC, as well as to operate in high pressure systems.

APPLICATION:
Industrial applications:

- Air conditioning systems
- Cooling systems
- Heating systems
- Industrial washing facilities
- Fire extinguishing system
- Water treatment (purification)
- Increasing pressure in building utility systems
- Fish-keeping

Households:

- supply of water
- irrigation (including cooperation with sprinklers)

Agriculture:

- Irrigation
- Maintaining pressure in livestock buildings

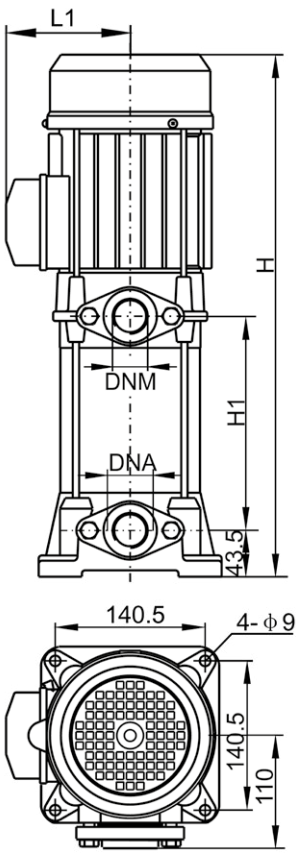
Operating conditions:

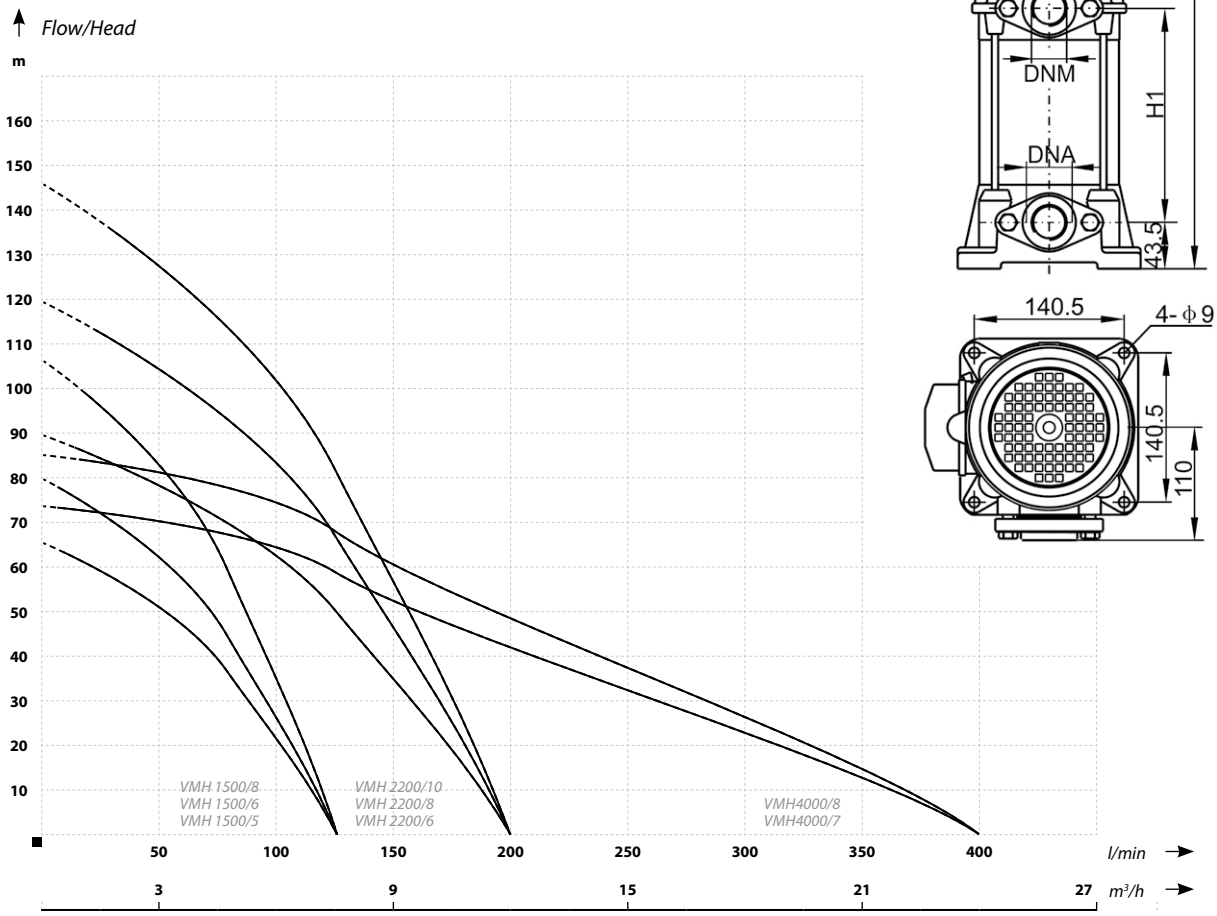
- Liquid temperature: 0-70°C
- Ambient temperature: up to 50°C
- Maximum pressure in the system: up to 1.5 MPa
- Ingress Protection: IP55
- Winding insulation class: 155 (F)

Materials:

- Motor: asynchronous enclosed squirrel-cage with aluminium housing and external cooling. Motors of 3-phase pumps can operate in star (3x400V) or delta (3x230V) connection. Single-phase motors are equipped with a thermal protection mounted in the motor winding.
- Shaft: Stainless steel AISI 304
- Housing: Stainless steel AISI 304
- Impeller: Noryl with increased fibre content in the polymer / Stainless steel AISI 304
- Inlet/outlet Grey cast iron
- Mechanical seal: graphite/silicon carbide/NBR

VMH





PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions (mm)			Weight (kg)
							L1	H	H1	
VMH 1500/5	66	125	1500	230	9,2	1 x 1	140	490	201	20
VMH 1500/6	80	125	1500	230	9,2	1 x 1	140	514	225	23
VMH 1500/8	106	125	2200	230	14	1 x 1	140	562	273	26
VMH2200/6	90	200	2200	230	14	1½ x 1¼	116	555	239	20
VMH2200/8	120	200	3000	400	10,5/6	1½ x 1¼	142	668	288	30
VMH2200/10	148	200	4000	400	15,9/9,2	1½ x 1¼	142	718	337	32
VMH4000/7	74	400	4000	400	13,6/7,8	1½ x 1¼	148	720	350	32
VMH4000/8	85	400	4700	400	15,9/9,2	1½ x 1¼	148	760	410	33

CV, CVF, CVL

STAINLESS STEEL VERTICAL MULTI-STAGE CENTRIFUGAL IN-LINE PUMPS





CV

The high performance, low noise CV series with reliable sealing has been designed for a wide range of applications.
For pumping clean non-aggressive liquids APPLICATION:
1. Drinking and tap/utility water supply systems, including:
   - water supply networks
   - pumping stations
   - booster sets and systems

2. Industrial applications, including:
   - industrial cleaning systems: washing / rinsing systems,
   - high pressure circulation systems
   - boiler rooms
   - air conditioning systems
   - cooling systems
   - fire extinguishing systems
   - machine lubrication systems
   - water supply systems in tall buildings
   - transmission of oil, glycol and coolants
   - golf courses

3. Agriculture, including:
   - watering systems
   - hose reel irrigation machines
   - irrigation systems
   - fish farms

4. Services:
   - laundry rooms
   - car washes



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
3,0	59
4,0	66
5,5	73
7,5	73
11	75
15	70
18,5	70
22	69
30	73
37	73
45	73

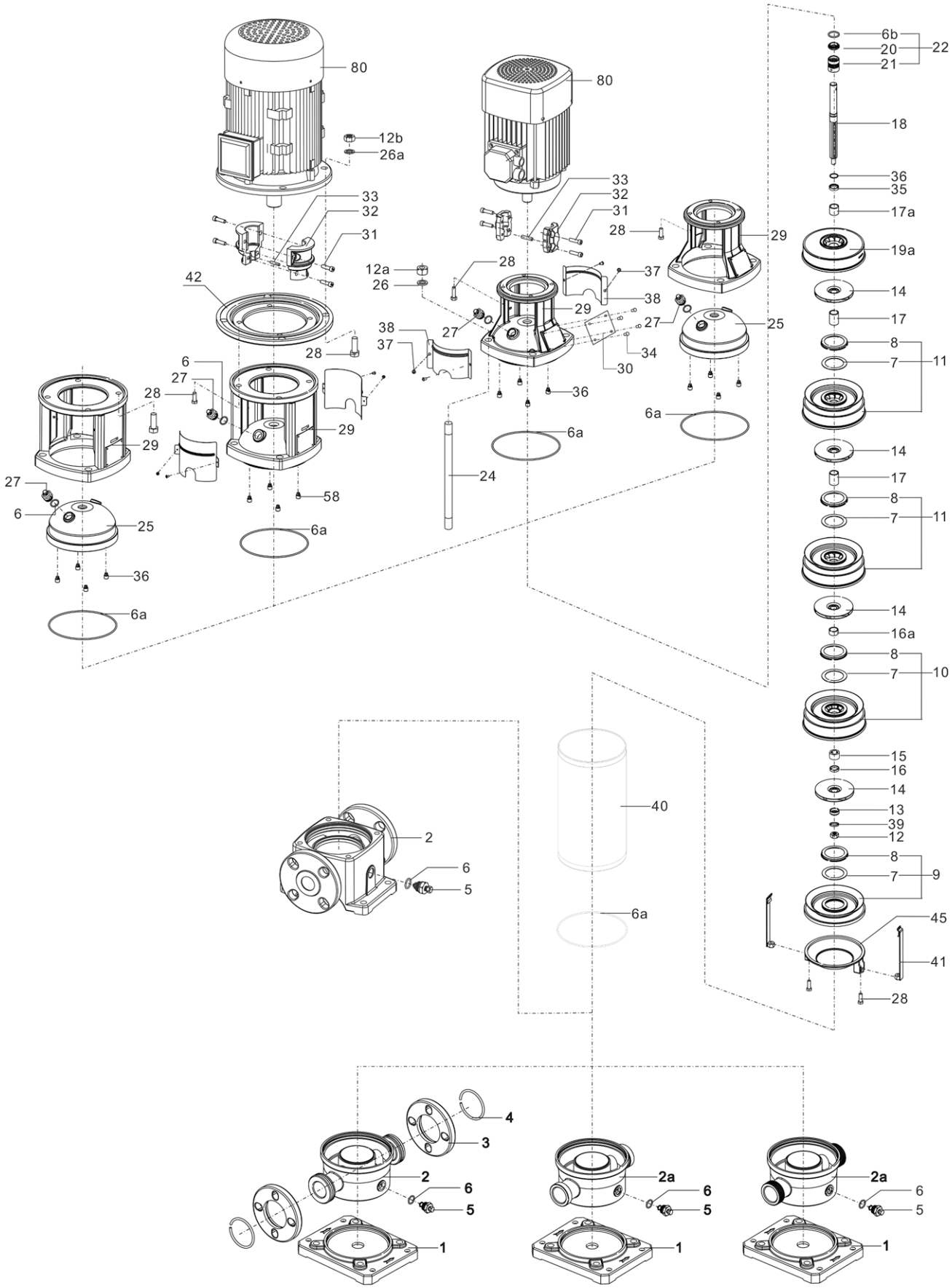


Operating conditions:
- Flow: 0.7-120 m3/h
- Maximum pressure: 32 bar
- Liquid temperature: -20°C / +104°C
- Ambient temperature: +40°C
- Flow range: 0,4~120m3/h
- PH range: PH3~9

Materials:
- 2-phase, 2-pole, asynchronous squirrel-cage motor
- Class F Insulation
- IP55 Ingress Protection
- Impellers – stainless steel AISI304 (EN/DIN 1.4301)
- Venturi tubes – stainless steel AISI304 (EN/DIN 1.4301)
- Pump shaft - stainless steel: AISI420 for CV pumps, AISI431 (EN/DIN 1.4057) for CVF and CVL pumps
- Pump housing - stainless steel AISI304 (EN/DIN 1.4301)
- pump inlet/outlet casting - for CV pumps: ASTM25B cast iron (EN/DIN EN-JL1030) , for CVF pumps: AISI304 cast (EN/DIN 1.4301), for CVL pumps: AISI304 pressed metal sheet (EN/DIN 1.4301)
- mechanical package seal for standard versions from + 10oC to + 90oC: silicon carbide / tungsten carbide / EPDM

Number of start and stop operations:
- Motor of up to 4kW: Maximum 100 times per 24 hours.
- Motors of 5.5kW and higher: Maximum 20 times per 24 hours

Technical drawing



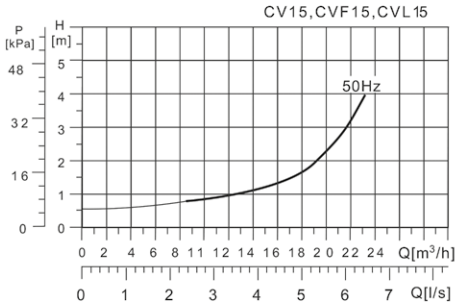
NR	DESCRIPTION	MATERIAL
1	Base plate	Cast iron
2	Pump housing	Cast iron
2a	Pump housing	SUS304
3	Flange	Cast iron
4	Circlip	SUS201
5	Drainage	SUS304
6	O-ring seal	NBR
6a	O-ring seal	NBR
6b	O-ring seal	NBR
7	Sealing	PTFE
7a	Sealing	PTFE
8	Sealing plate	SUS304
9	Inlet section	SUS304
9a	Inlet section	SUS304
10	Supporting Venturi tube	SUS304
10a	Supporting Venturi tube	SUS304
11	Venturi tube	SUS304
11a	Venturi tube	SUS304
12	Nut	Zinc
12a	Nut	Zinc
12b	Nut	Zinc
13	Driven impeller sleeve	SUS304
14	Driven impeller	SUS304
15	Bearing sleeve	Tungsten carbide
15a	Bearing sleeve	Tungsten carbide
16	Short sleeve I	SUS304
16a	Short sleeve II	SUS304
17	Long sleeve	SUS304
17a	Long sleeve	SUS304
18	Shaft	SUS431
19	Outlet section	SUS304
19a	Outlet section	SUS304
19b	Outlet section	SUS304
20	Fixed sealing ring	Carbon
21	Rotating ring	Tungsten carbide
22	Mechanical seal	Carbon/Tungsten carbide/Viton
23	Flexible ring	SUS304
24	Stud bolt	Zinc
25	Pump cover	SUS304
26	Washer	SUS304

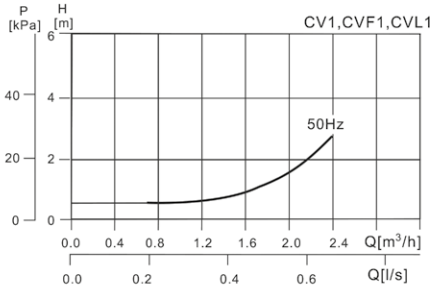
NR	DESCRIPTION	MATERIAL
27	Air plug	SUS304
28	Bolt	Zinc
28a	Bolt	Zinc
29	Motor frame	HT200
30	Nameplate	Aluminium
31	Threaded pin	Zinc
31a	Threaded pin	Zinc
31b	Threaded pin	Zinc
31c	Threaded pin	Zinc
31d	Threaded pin	Zinc
31e	Threaded pin	Zinc
32	Shaft coupling	QT450-10
33	Screw	Zinc
34	Pin	H62
35	Clip sleeve	SUS304
36	Clip ring	SUS304
37	Screw	SUS304
38	Coupling guard	SUS304
39	Spring pad	SUS304
40	Outer sleeve	SUS304
41	C-link set	SUS304
42	Motor flange	Cast iron
43	Seal	NBR
44	Oval flange	Cast iron
45	Mounting cover	SUS304
46	Neck ring	SUS304
47	Liner	PTFE
48	Support ring	SUS304
49	Nut	SUS304
50	Cone	SUS304
51	Wear ring for driven impeller	SUS304
52	Clip sleeve	SUS304
53	Plain bearing	Tungsten carbide
54	Gland cover	Cast steel
55	Drain	SUS304
56	Bearing sleeve	Tungsten carbide SUS304
57	Plain bearing	Tungsten carbide
58	Rubber foot	Viton
80	Motor	SUS304

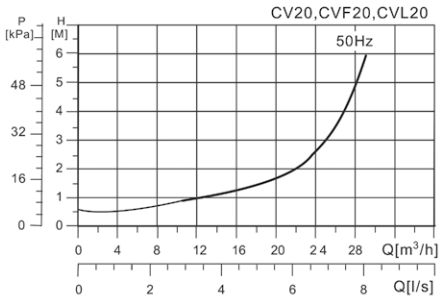
MAXIMUM SYSTEM PRESSURE		MAXIMUM INLET PRESSURE	
CV, CVF, CVL 1 / 2 / 3 / 4 / 5	**25 bar**	**CV, CVF, CVL 1** CV, CVF, CVL 1 - 2 > CV, CVF, CVL 1 - 36	10 bar
		CV, CVF, CVL 2 CV, CVF, CVL 2 - 2 > CV, CVF, CVL 2 - 26	10 bar
		CV, CVF, CVL 3 CV, CVF, CVL 3 - 2 > CV, CVF, CVL 3 - 29 CV, CVF, CVL 3 - 31 > CV, CVF, CVL 3 - 36	10 bar 15 bar
		CV, CVF, CVL 4 CV, CVF, CVL 4 - 2 > CV, CVF, CVL 4 - 22	15 bar
		CV, CVF, CVL 5 CV, CVF, CVL 5 - 2 > CV, CVF, CVL 5 - 16 CV, CVF, CVL 5 - 18 > CV, CVF, CVL 5 - 36	10 bar 15 bar
CV, CVF, CVL 10 - 1 > CV, CVF, CVL 10 - 12 CV, CVF, CVL 10 - 14 > CV, CVF, CVL 10 - 22	16 bar 25 bar	**CV, CVF, CVL 10** CV, CVF, CVL 10 - 1 > CV, CVF, CVL 10 - 6 CV, CVF, CVL 10 - 7 > CV, CVF, CVL 10 - 22	8 bar 10 bar
CV, CVF, CVL 15 - 1 > CV, CVF, CVL 15 - 10 CV, CVF, CVL 15 - 12 > CV, CVF, CVL 15 - 17	16 bar 25 bar	**CV, CVF, CVL 15** CV, CVF, CVL 15 - 1 > CV, CVF, CVL 15 - 3 CV, CVF, CVL 15 - 4 > CV, CVF, CVL 15 - 17	8 bar 10 bar
CV, CVF, CVL 20 - 1 > CV, CVF, CVL 20 - 10 CV, CVF, CVL 20 - 12 > CV, CVF, CVL 20 - 17	16 bar 25 bar	**CV, CVF, CVL 20** CV, CVF, CVL 20 - 1 > CV, CVF, CVL 20 - 3 CV, CVF, CVL 20 - 4 > CV, CVF, CVL 20 - 17	8 bar 10 bar
CV, CVF 32 - 1 - 1> CV, CVF 32 - 7 CV, CVF 32 - 8 - 2 > CV, CVF 32 - 12 CV, CVF 32 - 13 - 2 > CV, CVF 32 - 14	16 bar 25 bar 30 bar	**CV, CVF, CVL 32** CV, CVF 32 - 1 - 1> CV, CVF 32 - 4 CV, CVF 32 - 5 - 2 > CV, CVF 32 - 10 CV, CVF 32 - 11 - 2 > CV, CVF 32 - 14	4 bar 10 bar 15 bar
CV, CVF 45 - 1 - 1> CV, CVF 45 - 5 CV, CVF 45 - 6 - 2 > CV, CVF 45 - 9 CV, CVF 45 - 10 - 2 > CV, CVF 32 - 13 - 2	16 bar 25 bar 33 bar	**CV, CVF, CVL 45** CV, CVF 45 - 1 - 1> CV, CVF 45 - 2 CV, CVF 45 - 3 - 2 > CV, CVF 45 - 5 CV, CVF 45 - 6 - 2 > CV, CVF 45 - 13 - 2	4 bar 10 bar 15 bar
CV, CVF 64 - 1 - 1> CV, CVF 64 - 5 CV, CVF 64 - 6 - 2 > CV, CVF 64 - 8 - 1	16 bar 25 bar	**CV, CVF, CVL 64** CV, CVF 64 - 1 - 1> CV, CVF 64 - 2 - 2 CV, CVF 64 - 2 - 1 > CV, CVF 64 - 4 - 2 CV, CVF 64 - 4 - 1 > CV, CVF 64 - 8 - 1	4 bar 10 bar 15 bar
CV, CVF 90 - 1 - 1> CV, CVF 90 - 4 CV, CVF 90 - 5 - 2 > CV, CVF 90 - 6	16 bar 25 bar	**CV, CVF, CVL 90** CV, CVF 90 - 1 - 1> CV, CVF 90 - 1 CV, CVF 90 - 2 - 2 > CV, CVF 90 - 2 - 3 CV, CVF 90 - 3 > CV, CVF 90 - 6	4 bar 10 bar 15 bar

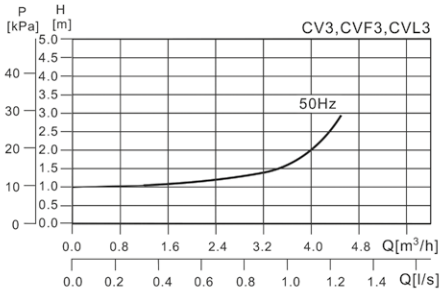
CV, CVF, CVL

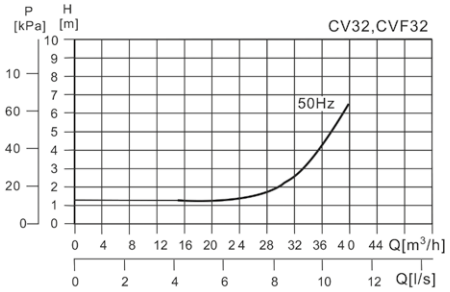
NPSH

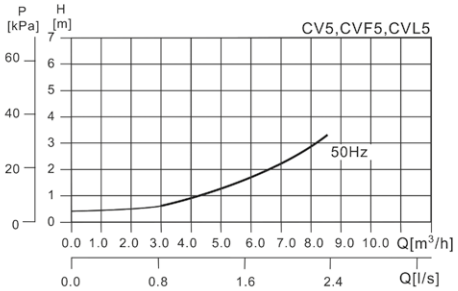


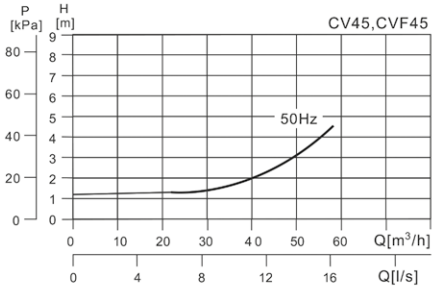


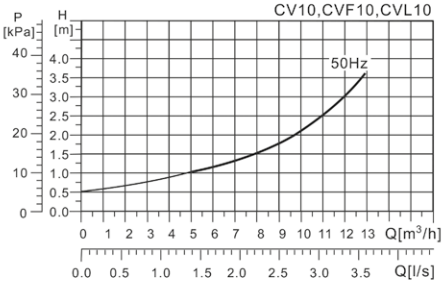


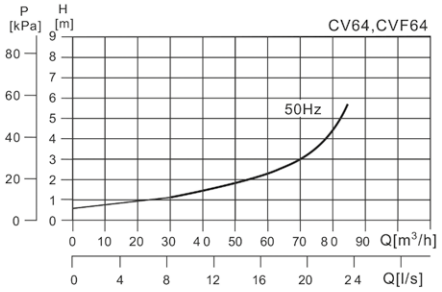


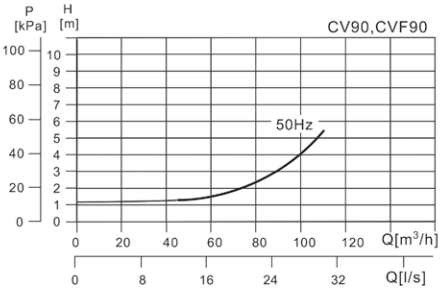




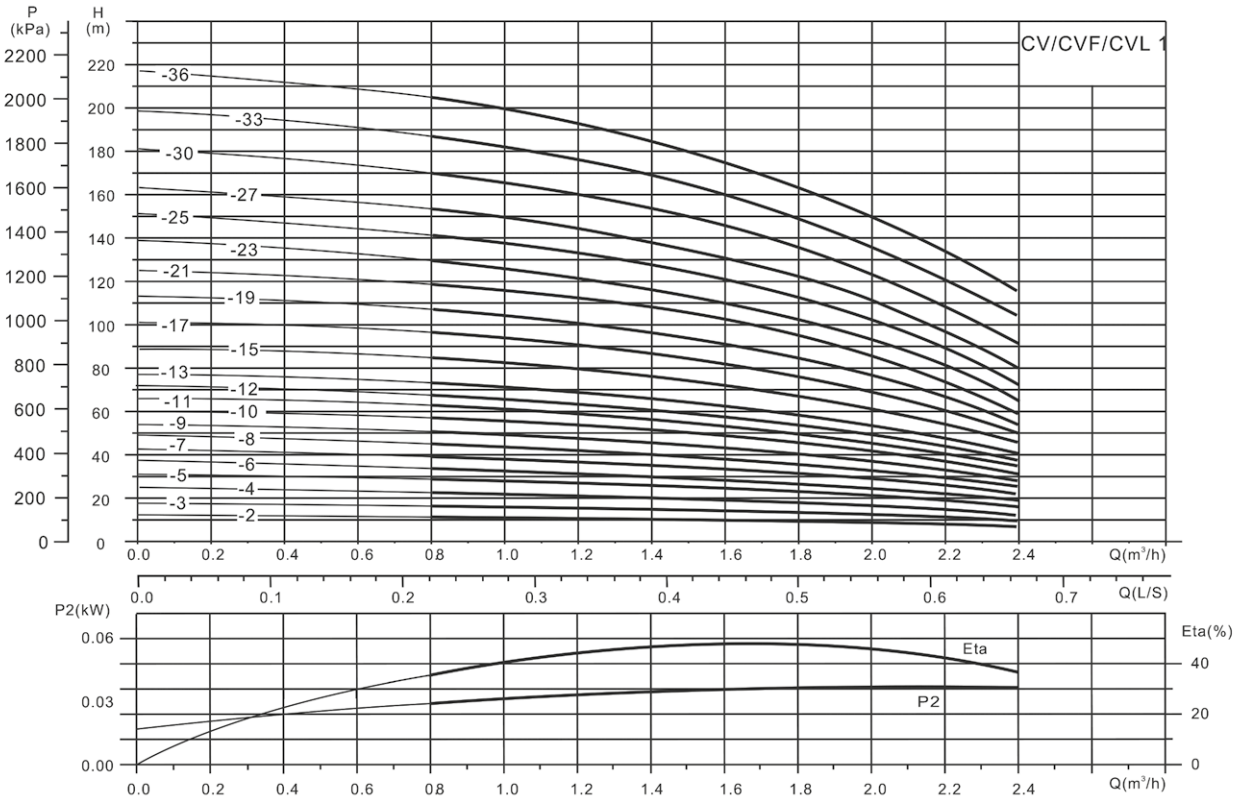


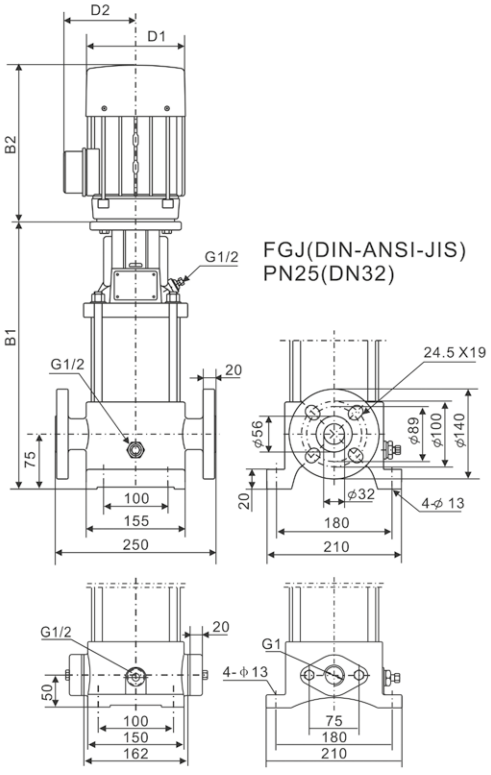






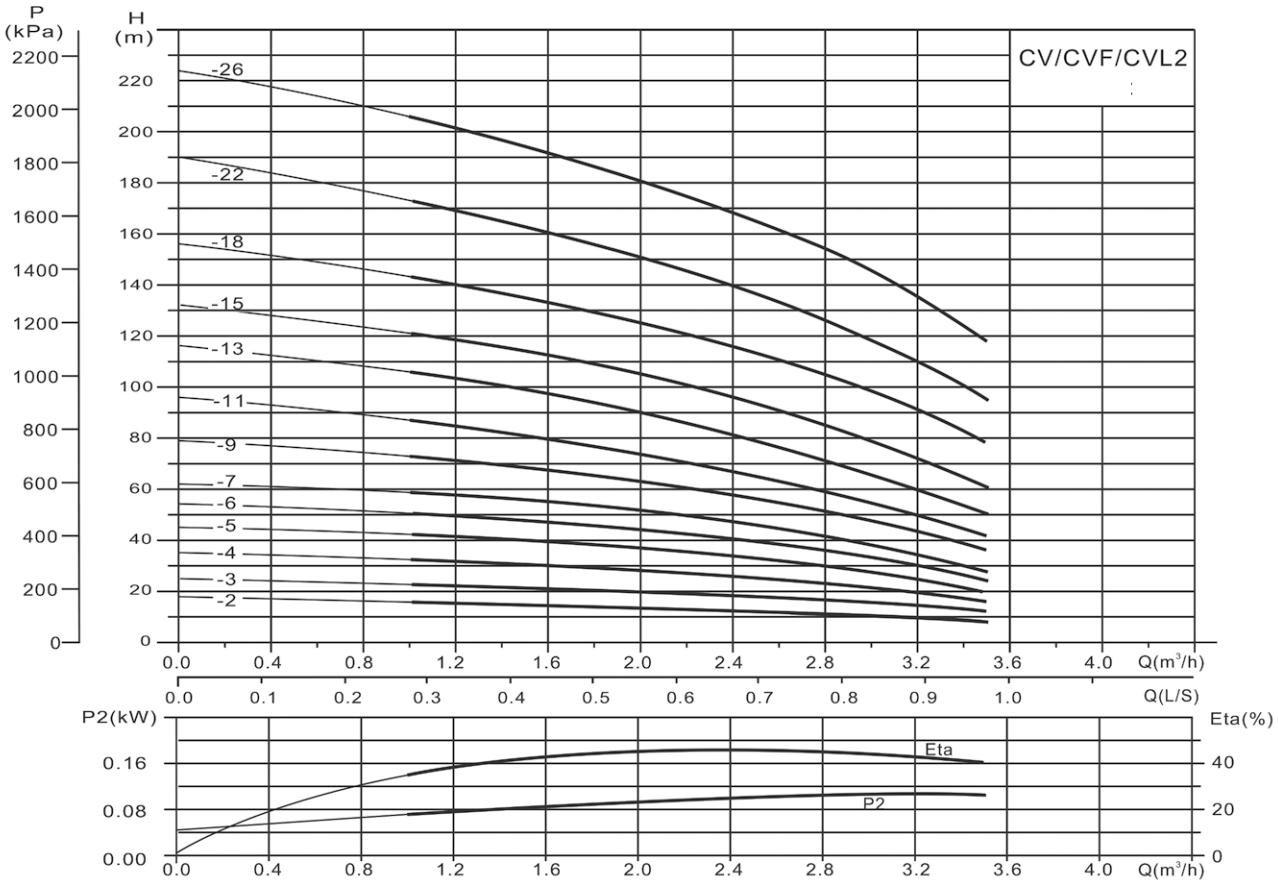
CV, CVF, CVL 1

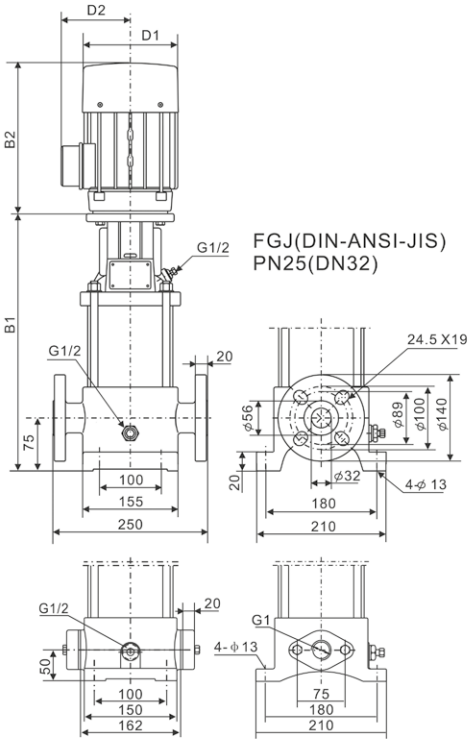




Name	Power (kW)	Dimensions (mm)					Weight (kg)
		B1	B2	B1+B2	D1	D2	
CV1-2	0,37	262	205	467	133	102/124	23
CV1-3	0,37	280	205	485	133	102/124	23
CV1-4	0,37	298	205	503	133	102/124	23
CV1-5	0,37	316	205	521	133	102/124	23
CV1-6	0,37	334	205	539	133	102/124	24
CV1-7	0,37	352	205	557	133	102/124	25
CV1-8	0,37	370	205	575	133	102/124	25
CV1-9	0,55	388	205	593	133	102/124	26
CV1-10	0,55	406	205	611	133	102/124	26
CV1-11	0,55	424	205	629	133	102/124	27
CV1-12	0,75	442	205	647	133	102/124	28
CV1-13	0,75	460	205	665	133	102/124	29
CV1-15	0,75	496	205	701	133	102/124	30
CV1-17	1,1	538	241	779	154	111/133	32
CV1-19	1,1	574	241	815	154	111/133	33
CV1-21	1,1	610	241	851	154	111/133	34
CV1-23	1,1	646	241	887	154	111/133	36
CV1-25	1,5	682/690	241/293	923/983	154/177	111/144,5	43
CV1-27	1,5	718/726	241/293	959/1019	154/177	111/144,5	44
CV1-30	1,5	772/780	241/293	1013/1073	154/177	111/144,5	46
CV1-33	2,2	834	275/293	1109/1127	177	116/144,5	49
CV1-36	2,2	888	275/293	1163/1181	177	116/144,5	50

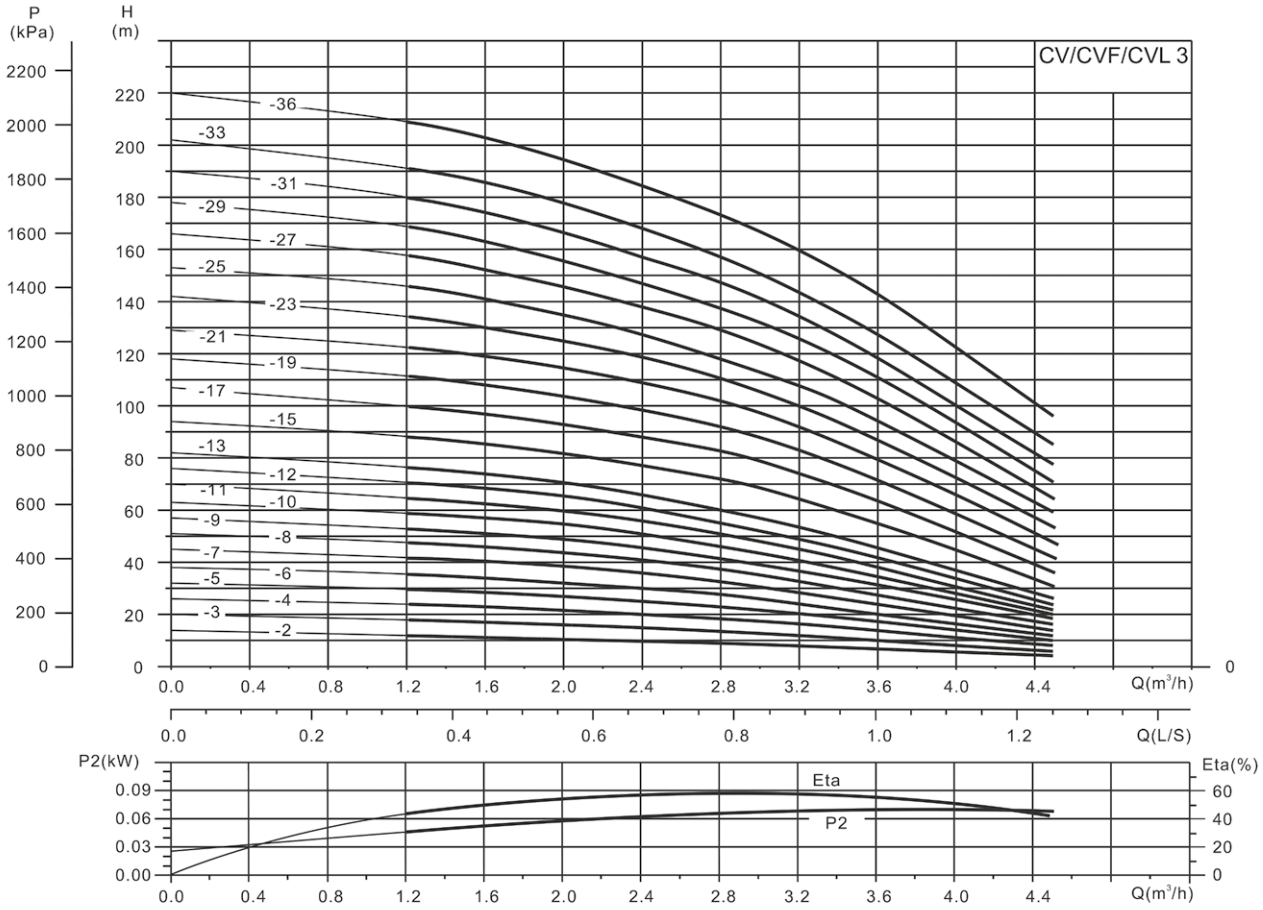
CV, CVF, CVL 2

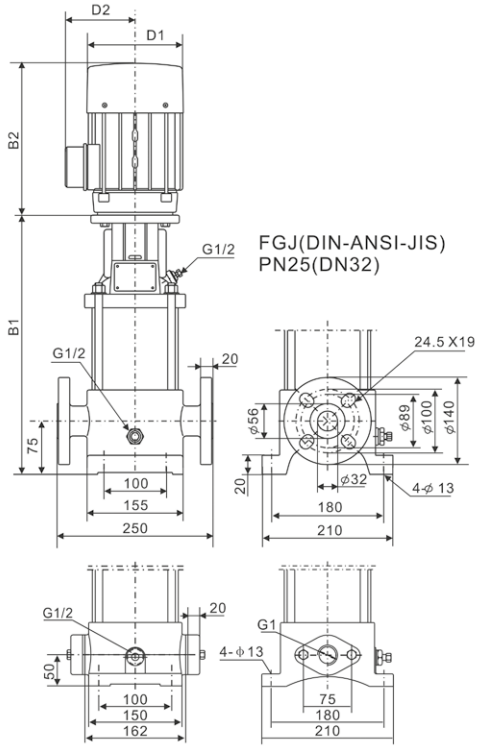




Name	Power (kW)	Dimensions (mm)					Weight (kg)
		B1	B2	B1+B2	D1	D2	
CV2-2	0,37	262	205	467	133	102	22
CV2-3	0,37	280	205	485	133	102	22
CV2-4	0,55	298	205	503	133	102	25
CV2-5	0,55	316	205	521	133	102	25
CV2-6	0,75	334	205	539	133	102	27
CV2-7	0,75	352	205	557	133	102	27
CV2-9	1,1	394	241	635	154	111	29
CV2-11	1,1	430	241	671	154	111	29
CV2-13	1,5	466	241/293	707/759	154	111	32
CV2-15	1,5	502	241/293	743/795	154	111	32
CV2-18	2,2	558	275/293	833/851	177	116	38
CV2-22	2,2	630	275/293	905/923	177	116	43
CV2-26	3,0	702	293	977	177	116	48

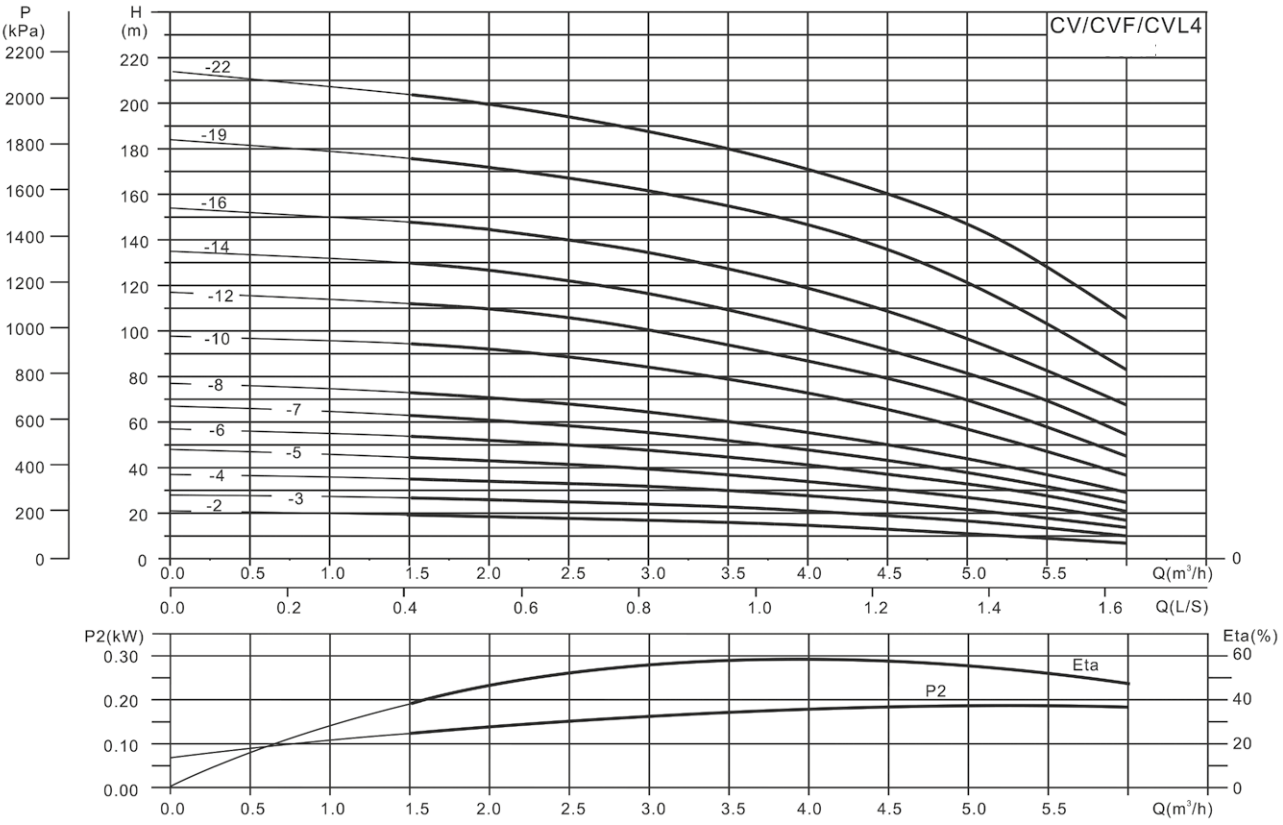
CV, CVF, CVL 3

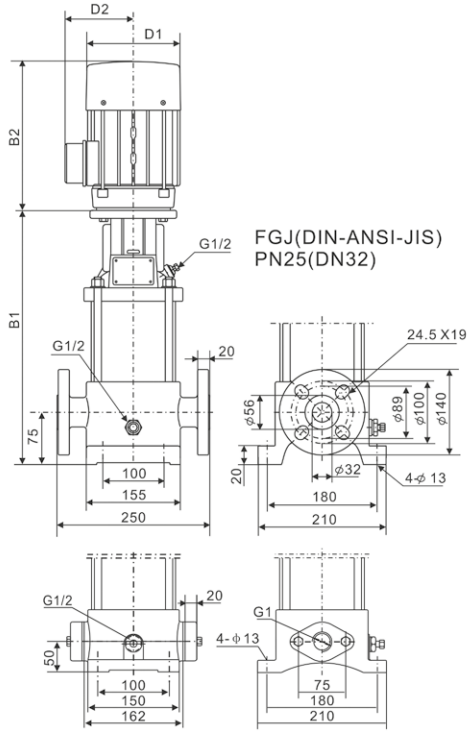




Name	Power (kW)	Dimensions (mm)					Weight (kg)
		B1	B2	B1+B2	D1	D2	
CV3-2	0,37	262	205	467	133	102	23
CV3-3	0,37	280	205	485	133	102	23
CV3-4	0,37	298	205	503	133	102	24
CV3-5	0,37	316	205	521	133	102	24
CV3-6	0,55	334	205	539	133	102	26
CV3-7	0,55	352	205	557	133	102	26
CV3-8	0,75	370	205	575	133	102	27
CV3-9	0,75	388	205	593	133	102	27
CV3-10	0,75	406	205	611	133	102	28
CV3-11	1,1	430	241	671	154	111	30
CV3-12	1,1	448	241	689	154	111	30
CV3-13	1,1	466	241	707	154	111	32
CV3-15	1,1	502	241	743	154	111	32
CV3-17	1,5	538	241/293	779/831	154	111	36
CV3-19	1,5	574	241/293	818/675	154	111	37
CV3-21	2,2	618	275/293	893/911	177	116	40
CV3-23	2,2	654	275/293	929/947	177	116	42
CV3-25	2,2	690	275/293	965/983	177	116	44
CV3-27	2,2	726	275/293	1001/1019	177	116	45
CV3-29	2,2	762	293	1037	177	116	46
CV3-31	3,0	798	293	1073	177	116	50
CV3-33	3,0	834	293	1109	177	116	52
CV3-36	3,0	888	293	1163	177	116	54

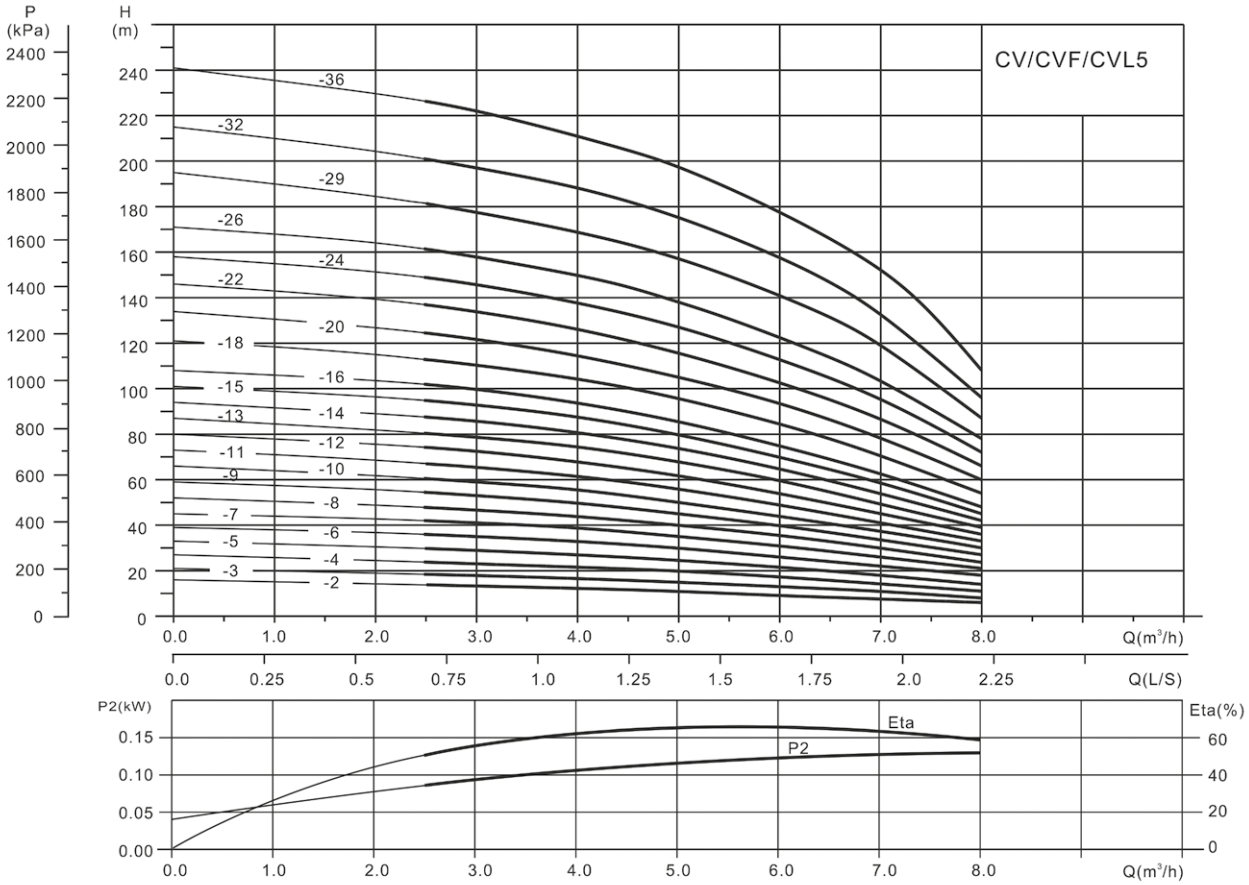
CV, CVF, CVL 4

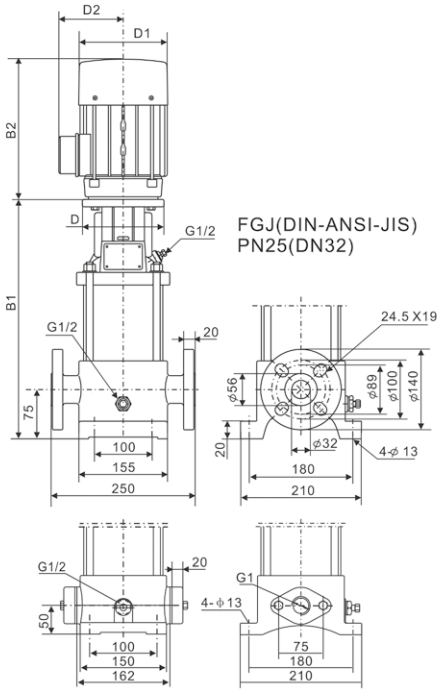




Name	Power (kW)	Dimensions (mm)					Weight (kg)
		B1	B2	B1+B2	D1	D2	
CV4-2	0,37	262	205	467	133	102	25
CV4-3	0,37	280	205	485	133	102	25
CV4-4	0,55	298	205	504	133	102	26
CV4-5	1,1	322	241	563	154	111	26
CV4-6	1,1	340	241	581	154	111	28
CV4-7	1,5	358	241/293	599/651	154	111	33
CV4-8	1,5	376	241/293	617/669	154	111	33
CV4-10	2,2	420	275/293	695/713	177	116	35
CV4-12	2,2	456	275/293	731/749	177	116	35
CV4-14	3,0	492	275/293	767/785	177	116	38
CV4-16	3,0	528	275/293	803/821	197	116	38
CV4-19	4,0	602	305	907	197	148	48
CV4-22	4,0	656	305	961	197	148	53

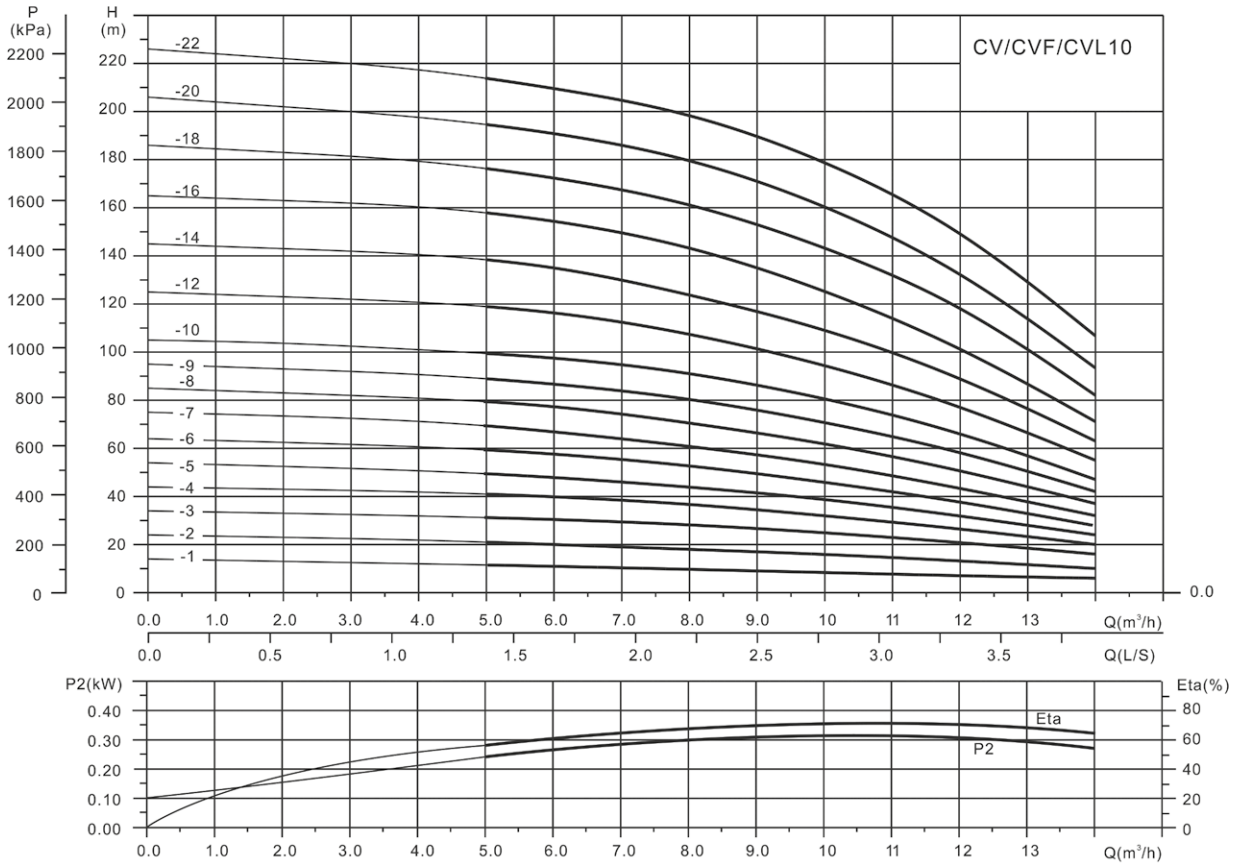
CV, CVF, CVL 5

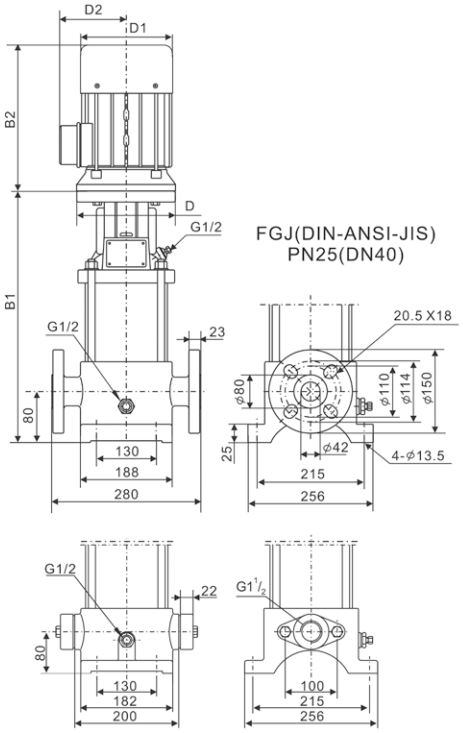




Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV5-2	0,37	280	205	485	-	133	102	23
CV5-3	0,55	307	205	512	-	133	102	23
CV5-4	0,55	334	205	539	-	133	102	25
CV5-5	0,75	361	205	566	-	133	102	25
CV5-6	1,1	394	241	635	-	154	111	29
CV5-7	1,1	421	241	662	-	154	111	31
CV5-8	1,1	448	241	689	-	154	111/144,5	38
CV5-9	1,5	475/483	241/292	716/776	-	154/177	111/144,5	27
CV5-10	1,5	502/510	241/293	743/803	-	154/177	111/144,5	39
CV5-11	2,2	537	275/293	812/830	-	177	116/144,5	40
CV5-12	2,2	564	275/293	839/857	-	177	116/144,5	41
CV5-13	2,2	591	275/293	866/884	-	177	116/144,5	42
CV5-14	2,2	618	275/293	893/911	-	177	116/144,5	43
CV5-15	2,2	645	275/293	920/938	-	177	116/144,5	44
CV5-16	2,2	672	275/293	947/965	-	177	116/144,5	45
CV5-18	3,0	726	293	1019	-	177	116	48
CV5-20	3,0	780	293	1073	-	197	116	49
CV5-22	4,0	854	305	1155	-	197	148	61
CV5-25	4,0	908	305	1213	-	197	148	62
CV5-26	4,0	962	305	1267	-	197	148	64
CV5-29	4,0	1043	305	1348	-	197	148	67
CV5-32	5,5	1145	390	1535	300	275	210	82
CV5-36	5,5	1253	390	1643	300	275	210	85

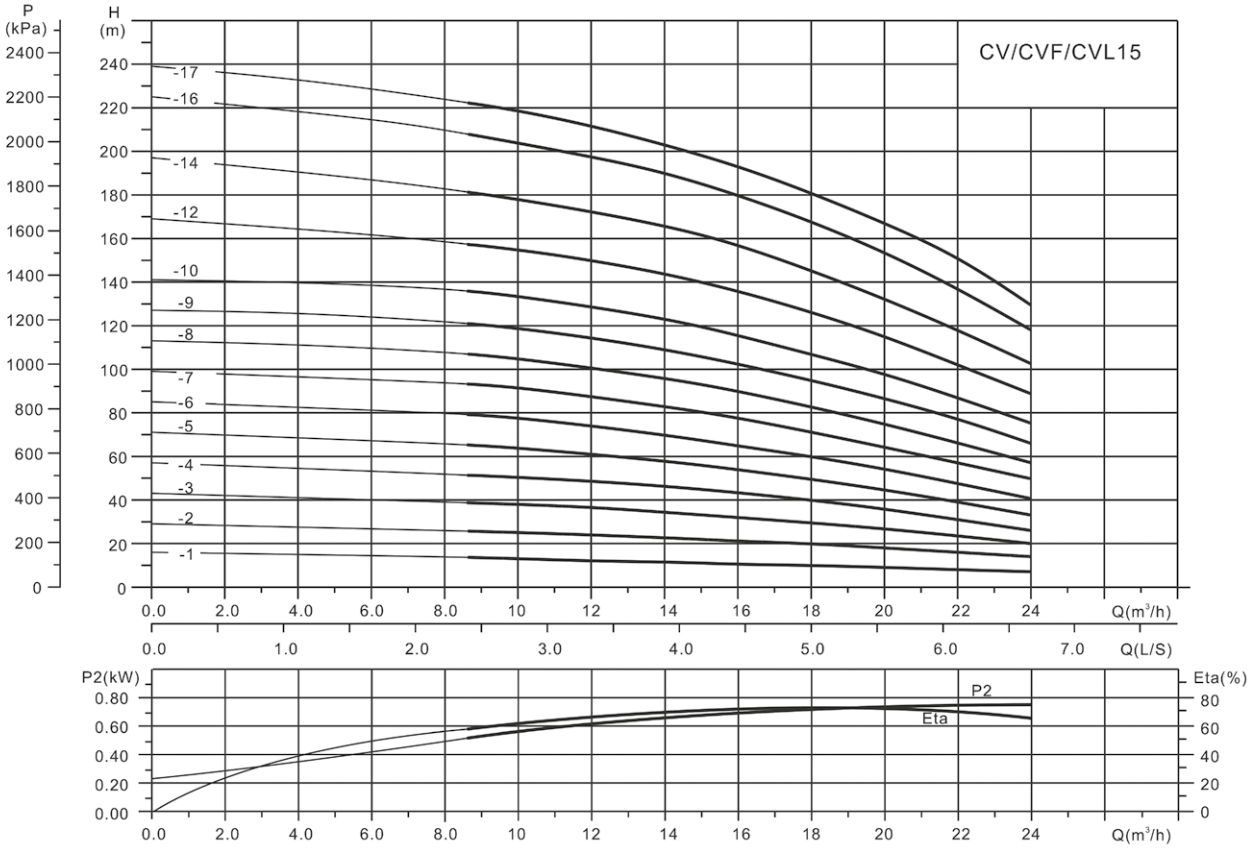
CV, CVF, CVL 10

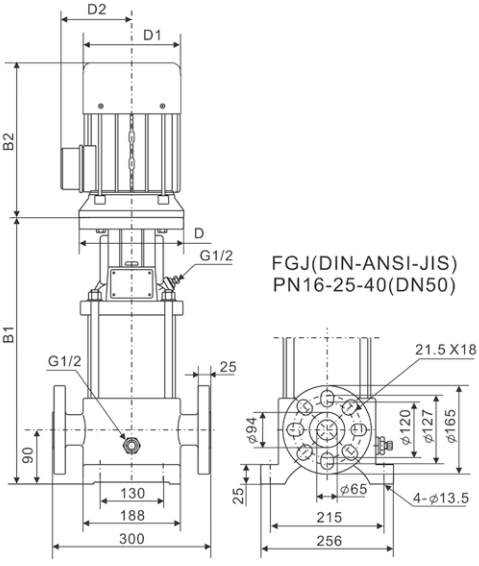




Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV10-1	0,37	322	205	527	-	133	102	38
CV10-3	0,75	352	205	557	-	133	102	40
CV10-3	1,1	388	241	629	-	154	111	43
CV10-4	1,5	418	241/293	569/711	-	154	111	50
DC10-5	2,2	456	275/293	731/749	-	177	116	53
CV10-6	2,2	486	275/293	761/779	-	177	116	55
CV10-7	3,0	516	293	791	-	177	116	60
CV10-8	3,0	546	293	818	-	177	116	61
CV10-9	3,0	576	293	848	-	177	116	63
CV10-10	4,0	626	305	931	-	197	148	65
CV10-12	4,4	686	305	991	-	197	148	68
CV10-14	5,5	761	390	1151	300	275	210	98
CV10-16	5,5	821	390	1211	300	275	210	100
CV10-18	7,5	881	390	1271	300	275	210	125
CV10-20	7,5	941	390	1331	300	275	210	128
CV10-22	7,5	1001	390	1361	300	275	210	130

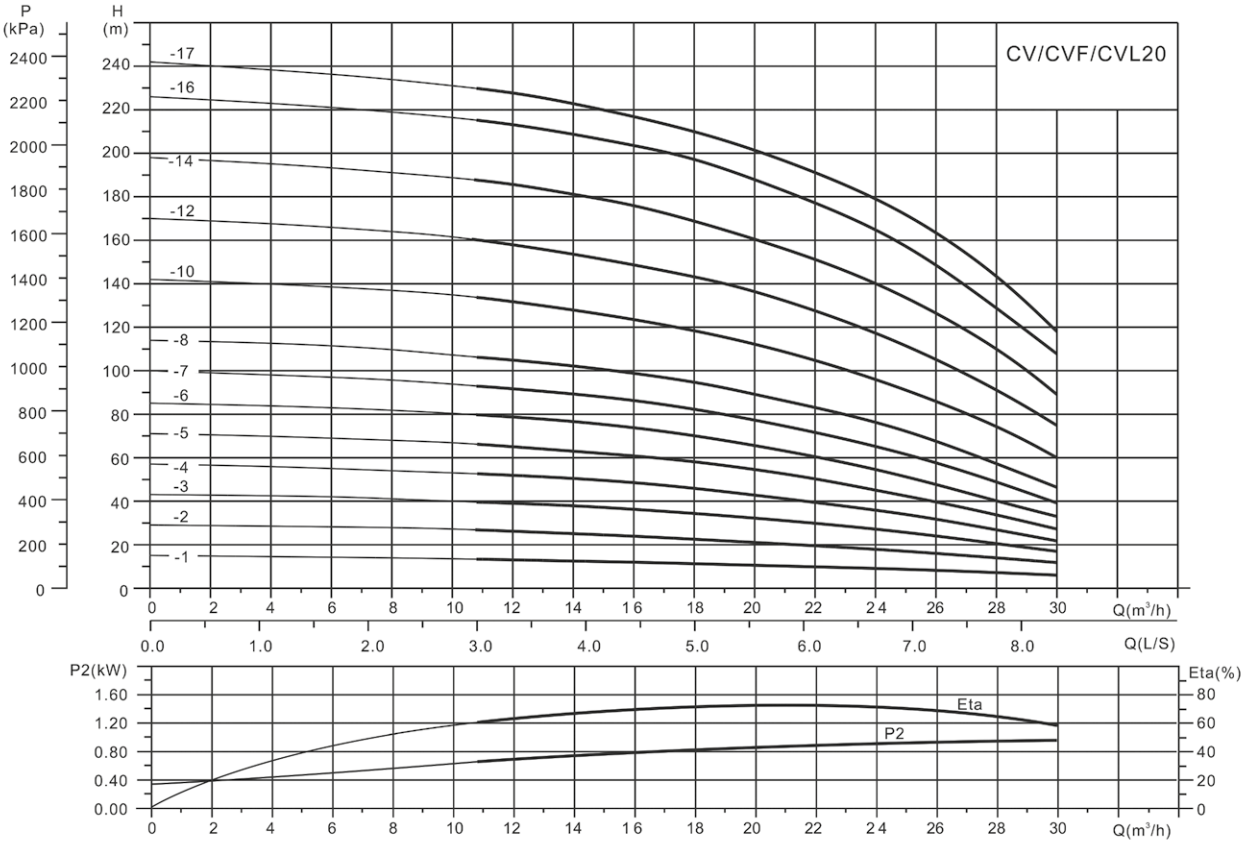
CV, CVF, CVL 15

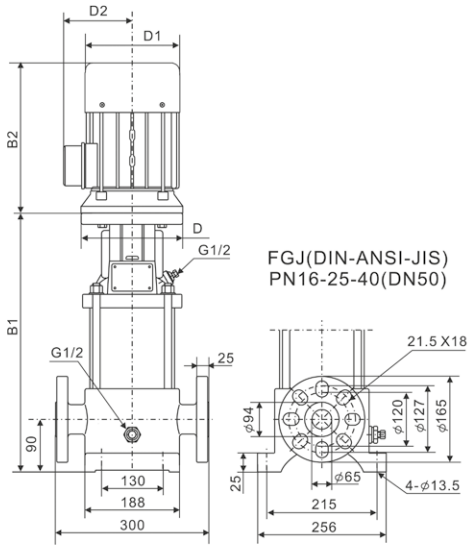




Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV15-1	1,1	353	241	594	-	154	111	45
CV15-2	2,2	406	275/293	681/699	-	177	116	50
CV15-3	3,0	451	293	726	-	177	116	55
CV15-4	4,0	516	305	771	-	197	148	60
CV15-5	4,0	561	305	866	-	197	148	63
CV15-6	5,5	627	390	1017	300	275	210	93
CV15-7	5,5	672	390	1062	300	275	210	97
CV15-8	7,5	717	390	1107	300	275	210	100
CV15-9	7,5	762	390	1152	300	275	210	102
CV15-10	11	827	505	1328	350	330	255	145
CV15-12	11	917	505	1418	350	330	255	150
CV15-14	11	1007	505	1508	350	330	255	152
CV15-16	15	1097	505	1598	350	330	255	153
CV15-17	15	1142	505	1643	350	330	255	165

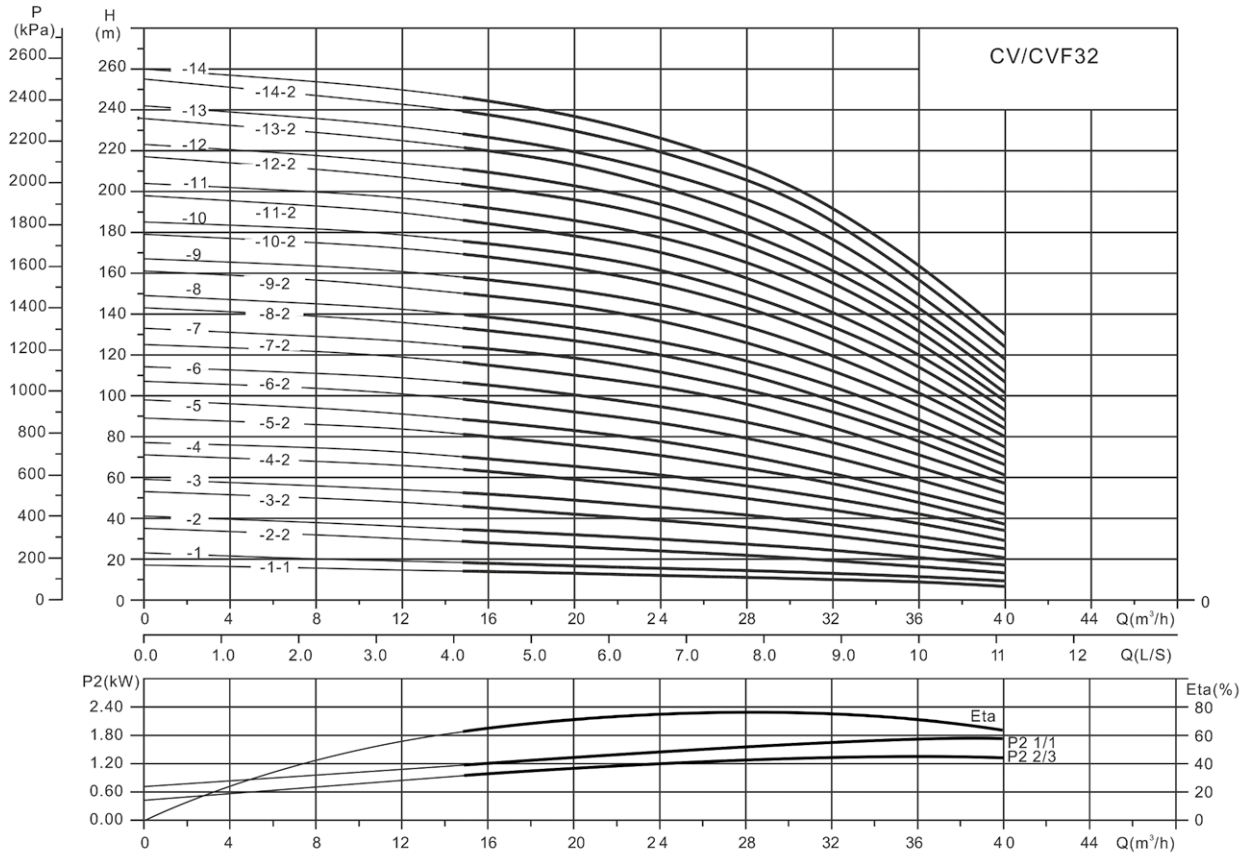
CV, CVF, CVL 20

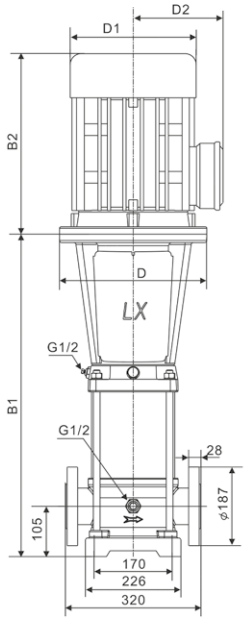


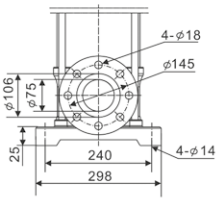


Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV20-1	1,1	353	241	594	-	154	111	45
CV20-2	2,2	406	275/293	681/699	-	177	116	50
CV20-3	4,0	471	305	776	300	197	148	60
CV20-4	5,5	537	305	842	300	197	148	85
CV20-5	5,5	582	390	972	300	275	210	88
CV20-6	7,5	627	390	1017	300	275	210	92
CV20-7	7,5	672	390	1062	300	275	210	95
CV20-8	11	737	505	1242	350	330	255	135
CV20-10	11	827	505	1332	350	330	255	141
CV20-12	15	917	505	1422	350	330	255	148
CV20-14	15	1007	505	1512	350	330	255	153
CV20-16	18,5	1097	560	1657	350	330	255	173
CV20-17	18,5	1142	560	1702	350	330	255	176

CV, CVF, CVL 32

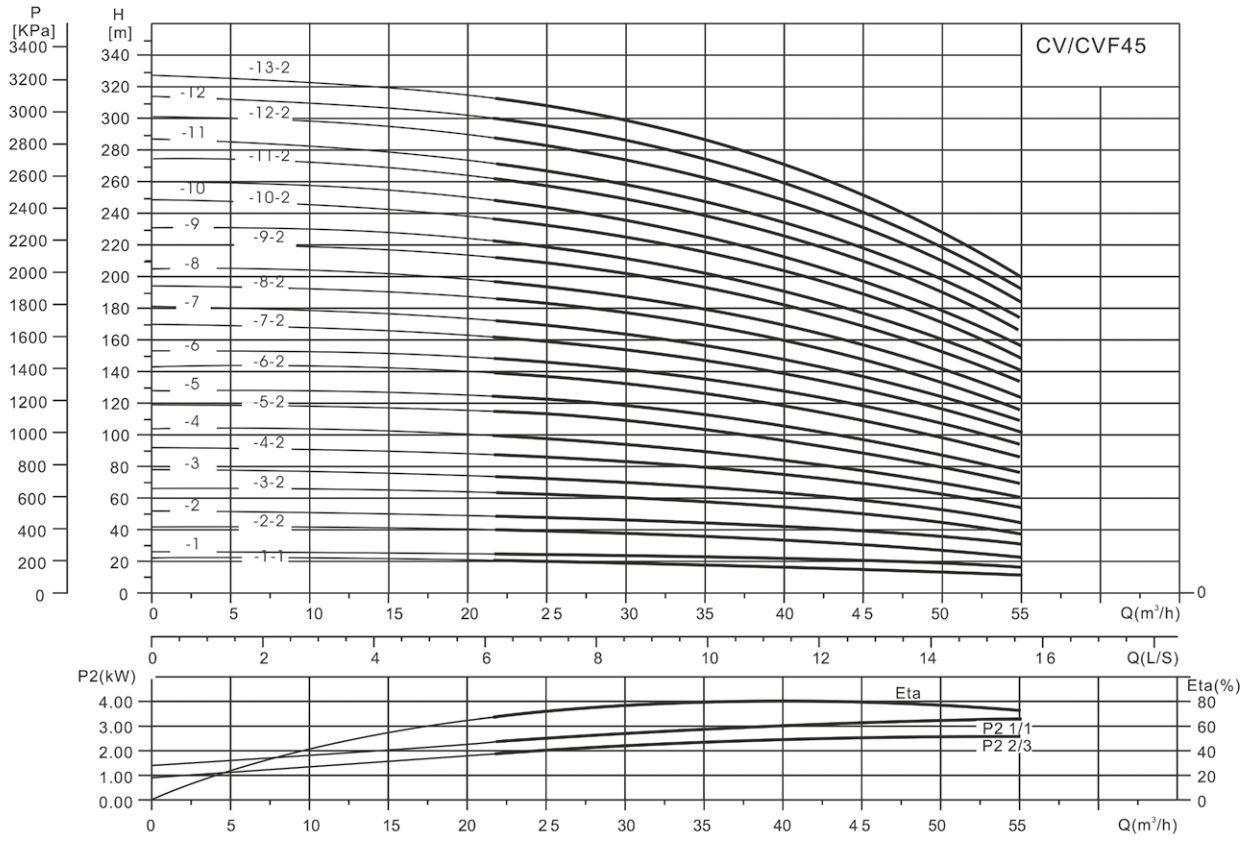


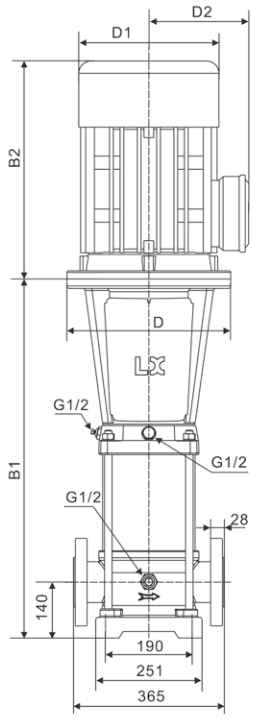


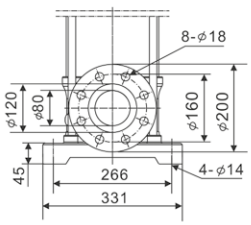


Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV32-1-1	1,5	455	241/293	696/784	-	154	111	62
CV32-1	2,2	455	275/293	730/748	-	177	116	63
CV32-2-2	3,0	525	293	800	-	177	116	77
CV32-2	4,0	525	305	830	-	197	148	88
CV32-3-2	4,0	595	305	900	-	197	148	107
CV32-3	5,5	620	390	1010	300	275	210	107
CV32-4-2	7,5	690	390	1080	300	275	210	119
CV32-4	7,5	690	390	1080	300	275	210	120
CV32-5-2	11	915	505	1420	350	330	255	173
CV32-5	11	915	505	1420	350	330	255	174
CV36-6-2	11	985	505	1490	350	330	255	180
CV36-6	11	985	505	1490	350	330	255	181
CV32-7-2	15	1055	505	1560	350	330	255	210
CV32-7	15	1055	505	1560	350	330	255	211
CV32-8-2	15	1125	505	1630	350	330	255	213
CV32-8	15	1125	505	1630	350	330	255	214
CV32-9-2	18,5	1195	560	1750	350	330	255	230
CV32-9	18,5	1195	560	1750	350	330	255	230
CV32-10-2	18,5	1265	560	1820	350	330	255	235
CV32-10	18,5	1265	560	1820	350	330	255	236
CV32-11-2	22	1335	590	1925	350	380	280	275
CV32-11	22	1335	590	1925	350	380	280	276
CV32-12-2	22	1405	590	1995	350	380	280	280
CV32-12	22	1405	590	1995	350	380	280	281
CV32-13-2	30	1475	660	2135	400	420	305	400
CV32-13	30	1475	660	2135	400	420	305	400
CV32-14-2	30	1525	660	2185	400	420	305	405
CV32-14	30	1525	660	2185	400	420	305	405

CV, CVF, CVL 45

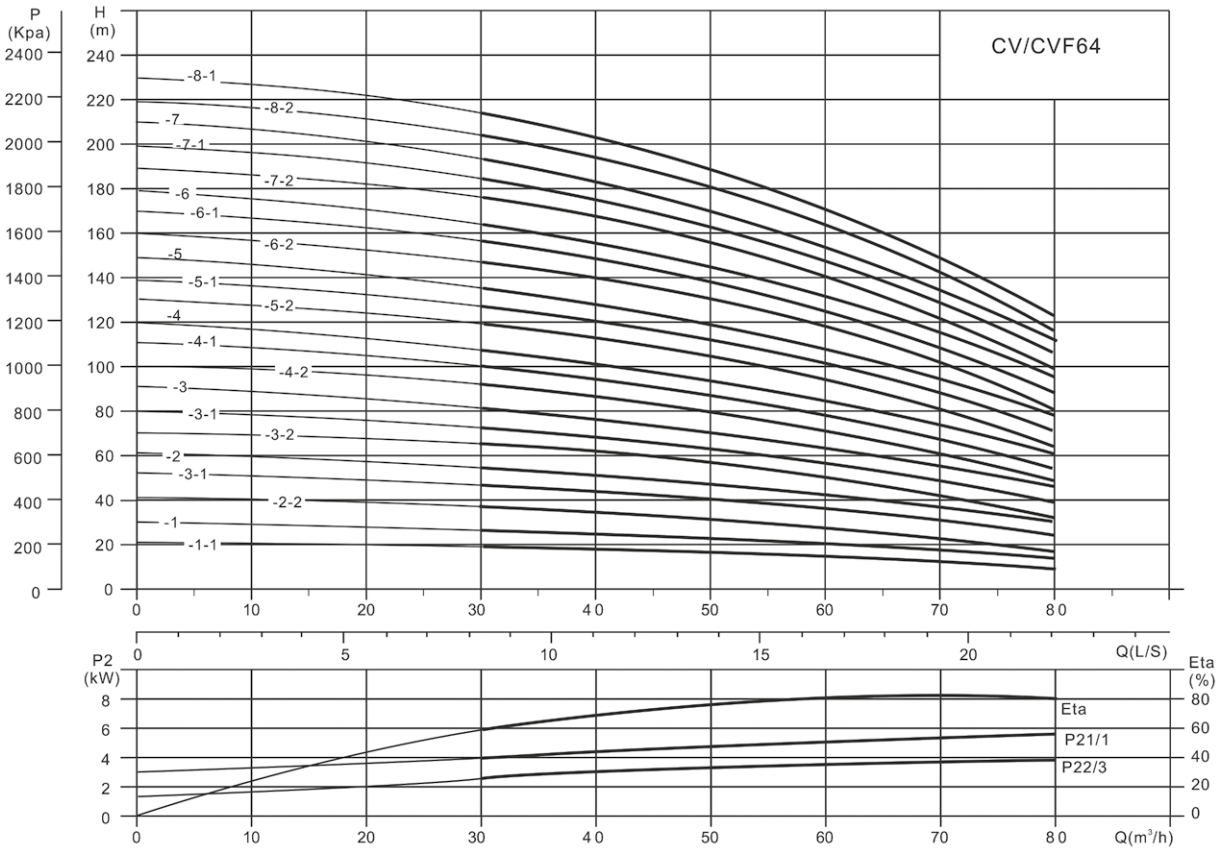


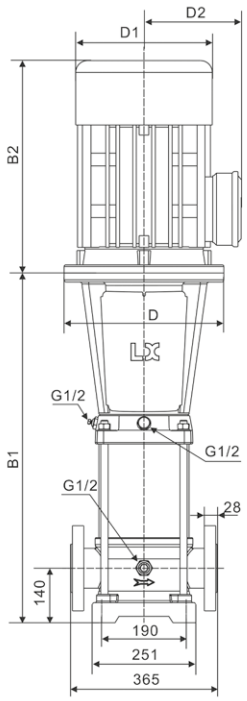


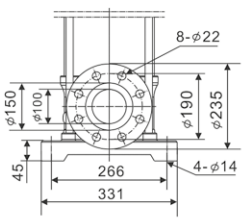


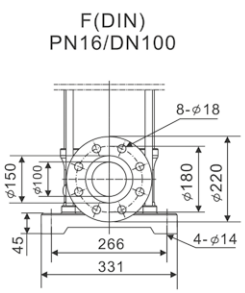
Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV45-1-1	3,0	561	293	876	-	197	165	86
CV45-1	4,0	561	315	876	-	260	165	86
CV45-2-2	5,5	641	430	1071	300	260	208	102
CV45-2	7,5	641	430	1071	300	260	208	102
CV45-3-2	11	826	490	1316	350	330	255	175
CV45-3	11	826	490	1316	350	330	255	175
CV45-4-2	15	906	490	1396	350	330	255	187
CV45-4	15	906	490	1396	350	330	255	187
CV45-5-2	18,5	986	550	1536	350	330	255	208
CV45-5	18,5	986	550	1536	350	330	255	208
CV45-6-2	22	1066	590	1656	350	360	285	251
CV45-6	22	1066	590	1656	350	360	285	251
CV45-7-2	30	1146	660	1806	400	420	310	315
CV45-7	30	1146	660	1806	400	420	310	315
CV45-8-2	30	1226	660	1886	400	420	310	319
CV45-8	30	1226	660	1886	400	420	310	319
CV45-9-2	30	1306	660	1966	400	420	310	323
CV45-9	37	1306	660	1966	400	420	310	323
CV45-10-2	37	1386	660	2046	400	420	310	347
CV45-10	37	1386	660	2046	400	420	310	347
CV45-11-2	45	1466	700	2166	450	470	345	413
CV45-11	45	1466	700	2166	450	470	345	413
CV45-12-2	45	1546	700	2246	450	470	345	417
CV45-12	45	1546	700	2246	450	470	345	417
CV45-13-2	45	1626	700	3226	450	470	345	421

CV, CVF, CVL 64



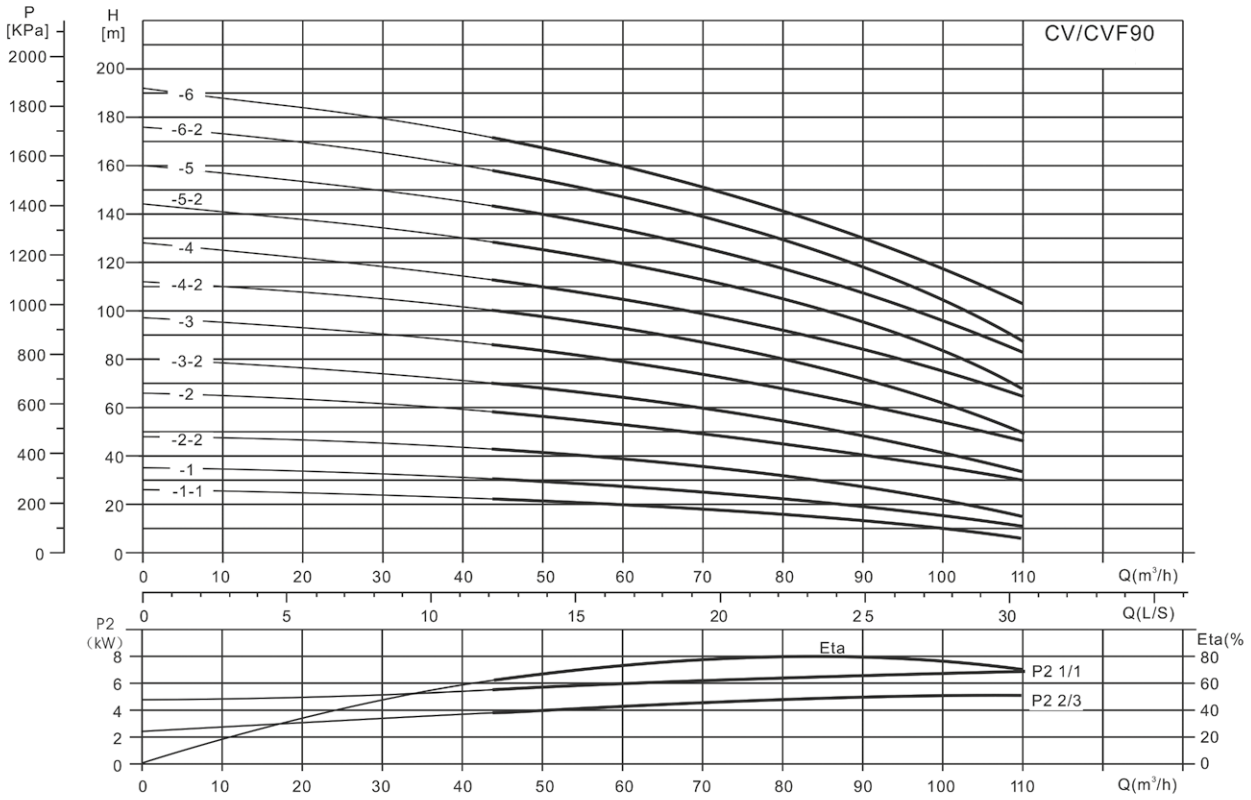


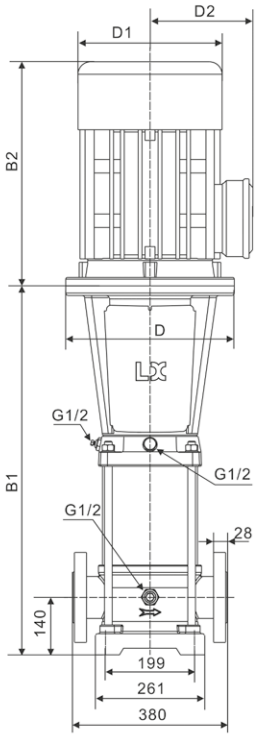




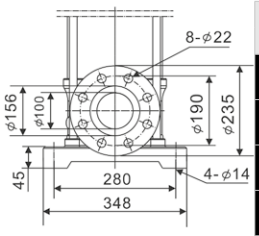
Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV64-1-1	4,0	561	335	896	-	230	188	105
CV64-1	5,5	561	430	991	300	260	208	110
CV64-2-2	7,5	644	430	1074	300	260	208	120
CV64-2-1	11	754	490	1244	350	330	255	155
CV64-2	11	754	490	1244	350	330	255	155
CV64-3-2	15	836	490	1326	350	330	255	195
CV64-3-1	15	836	490	1326	350	330	255	195
CV64-3	18,5	836	550	1386	350	330	255	205
CV64-4-2	18,5	919	550	1469	350	330	255	208
CV64-4-1	22	919	590	1509	350	360	285	260
CV64-4	22	919	590	1509	350	360	285	260
CV64-5-2	30	1001	660	1661	400	420	310	345
CV64-5-1	30	1001	660	1661	400	420	310	345
CV64-5	30	1001	660	1661	400	420	310	345
CV64-6-2	30	1084	660	1744	400	420	310	350
CV64-6-1	37	1084	660	1744	400	420	310	370
CV64-6	37	1084	660	1744	400	420	310	370
CV64-7-2	37	1166	660	1826	400	420	310	375
CV64-7-1	37	1166	660	1826	400	420	310	375
CV64-7	45	1166	700	1866	450	420	310	435
CV64-8-2	45	1248	700	1948	450	470	345	440
CV64-8-1	45	1248	700	1948	450	470	345	440

CV, CVF, CVL 90

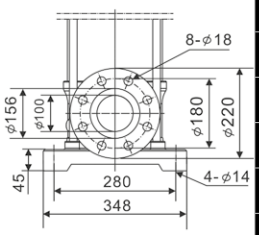




F(DIN)
PN25-40/DN100



F(DIN)
PN16/DN100



Name	Power (kW)	Dimensions (mm)						Weight (kg)
		B1	B2	B1+B2	D	D1	D2	
CV90-1-1	5,5	571	430	1001	300	260	208	120
CV90-1	7,5	571	430	1001	300	260	208	122
CV90-2-2	11	773	490	1263	350	330	255	165
CV90-2	15	773	490	1263	350	330	255	198
CV90-3-2	18,5	865	550	1415	350	330	255	212
CV90-3	22	865	590	1455	350	360	285	265
CV90-4-2	30	957	660	1417	400	420	310	348
CV90-4	30	957	660	1617	400	420	310	348
CV90-5-2	37	1049	660	1709	400	420	310	375
CV90-5	37	1049	660	1709	400	420	310	375
CV90-6-2	45	1141	700	1841	450	470	345	438
CV90-6	45	1141	700	1841	450	470	345	438

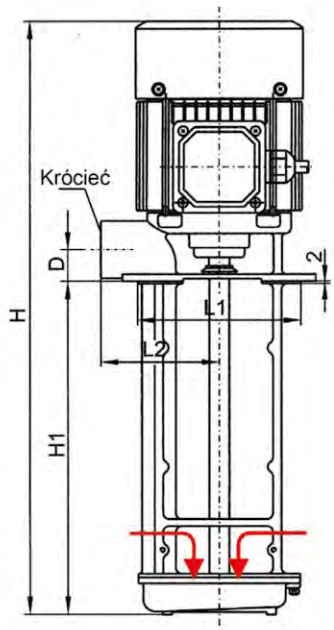
COLP

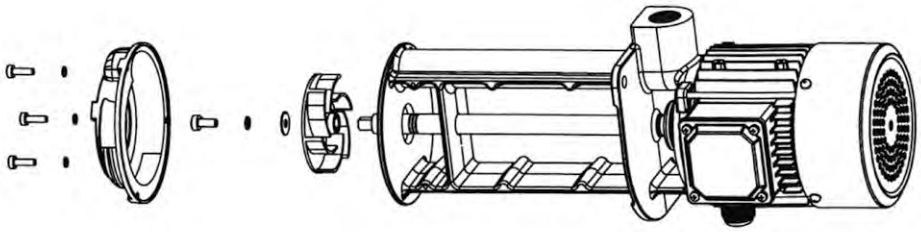
Submersible pumps for pumping coolants. Extended shaft design makes the pumps suitable for pumping liquids, coolants and oils that could have a negative impact on engine sealing in conventional pumps. The pump impeller and shaft are made of stainless steel. The top quality materials used make the pumps suitable for mediums with temperatures of 0 to 90°C and a maximum viscosity of 150mm^2 s^{-1}, at the maximum ambient temperature of 50°C. The maximum operating pressure of the pump is 0.3 MPa. The maximum diameter of impurities is 0.5 mm.

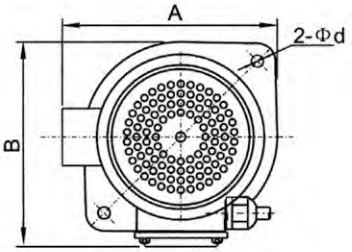
APPLICATION:
Pumping coolants, cutting fluids, oils in machine tools and all machines that require circulation of coolant

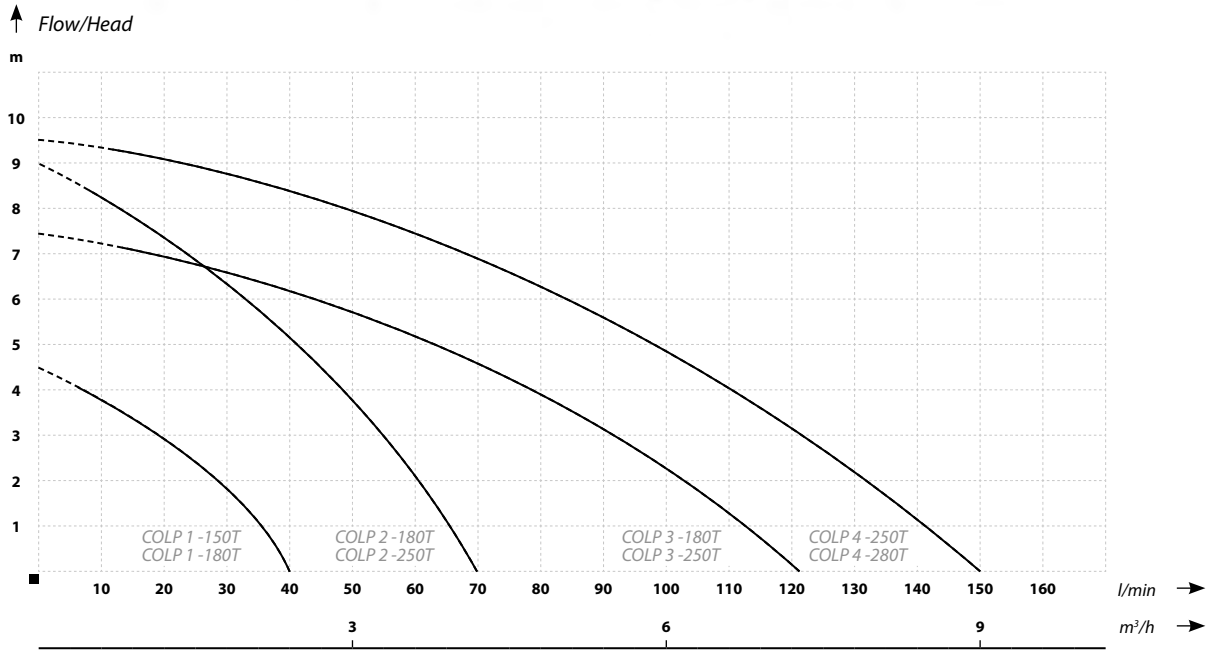


IMAGE. COLP





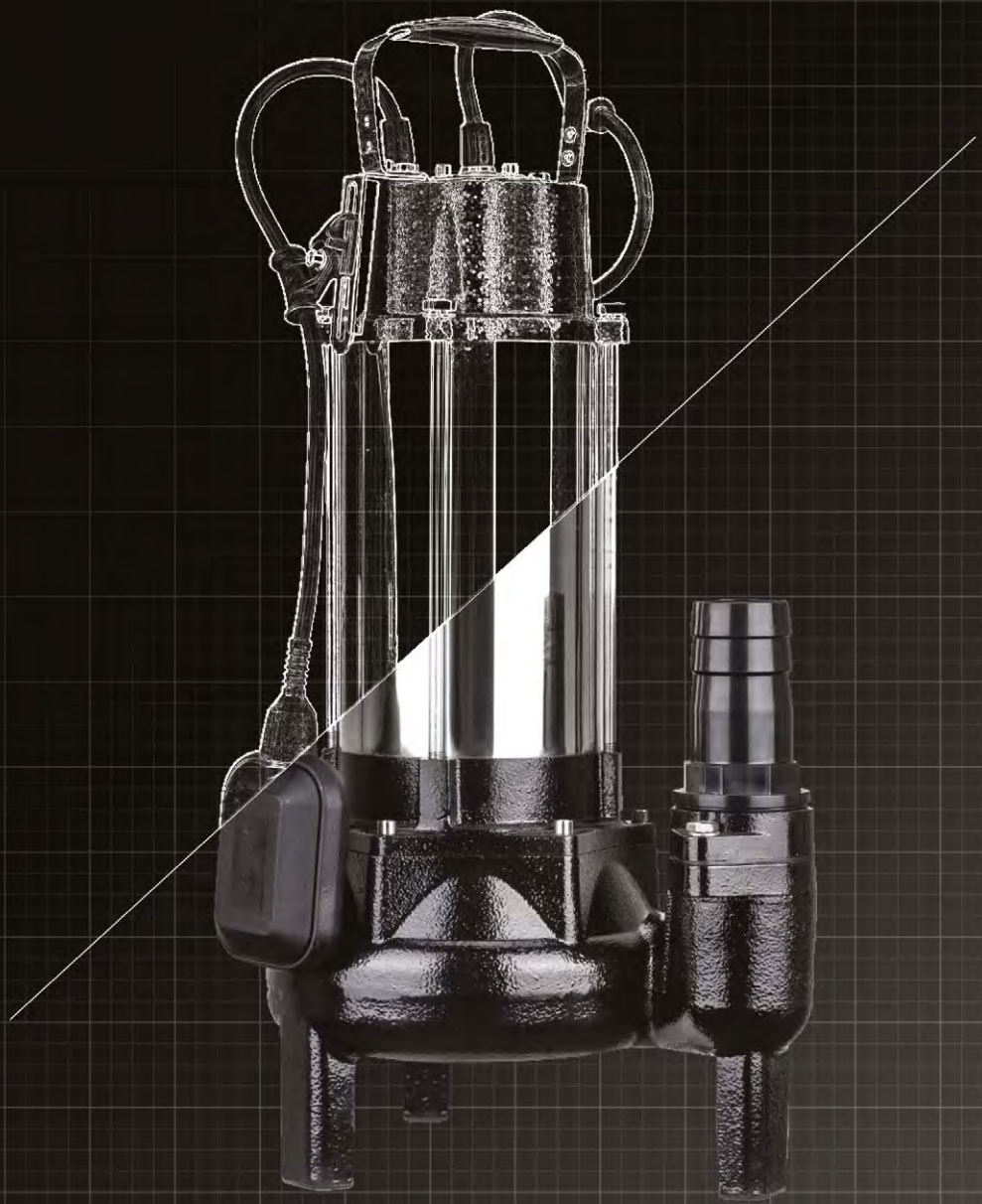




PARAMETERS

Name	Power (W)	Amperage (A)	Head (m)	Flow (m³/h)	Inlet/outlet	Voltage	DIMENSIONS							
							A	B	D	L1	L2	H	H1	d
COLP 1 -150T	60	0,3	4,5	2,5	G ½	400V/50Hz	139	161	20	ø 90	70	369	153	ø 8
COLP 1 -180T	60	0,3	4,5	2,5	G ½	400V/50Hz	139	161	20	ø 90	70	399	183	ø 8
COLP 2 -180T	100	0,4	9	4	G ½	400V/50Hz	150	162	20	ø 115	80	398	182	ø 10
COLP 2 -250T	100	0,4	9	4	G ½	400V/50Hz	150	162	20	ø 115	80	468	252	ø 10
COLP 3 -180T	150	0,5	7,5	7	G ¾	400V/50Hz	178	172	26,5	ø 135	98	398	180	ø 10
COLP 3 -250T	150	0,5	7,5	7	G ¾	400V/50Hz	178	172	26,5	ø 135	98	468	250	ø 10
COLP 4 -250T	250	0,7	9,5	9	G 1	400V/50Hz	178	172	26,5	ø 135	98	468	250	ø 10
COLP 4 -280T	250	0,7	9,5	9	G 1	400V/50Hz	178	172	26,5	ø 135	98	498	280	ø 10

SUBMERSIBLE PUMPS
TAUCHPUMPEN
PONOŘITELNÁ ČERPADLA
POMPE INUNDABILE
ПОГРУЖНЫЕ НАСОСЫ



IP



IP INOX IP



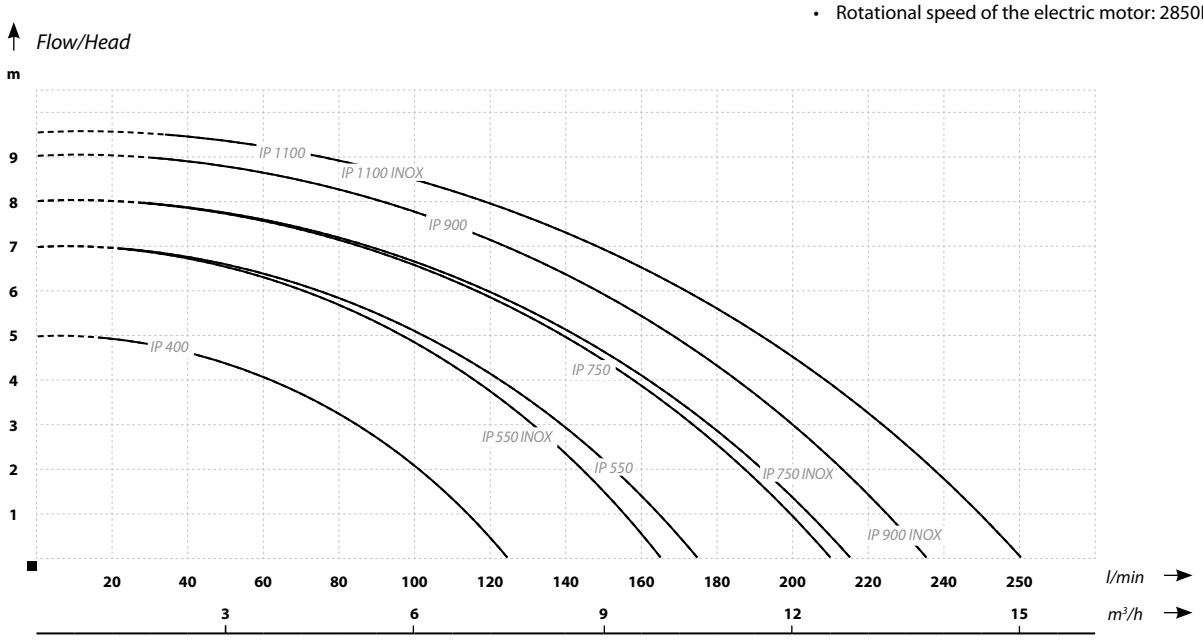
IP submersible plastic pumps designed for pumping clean and slightly contaminated water. The pumps have an outlet connection to which discharge hoses of different diameters can be connected depending on the user's requirements. Small size and light weight make the pumps exceptionally easy to operate 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

IPE
IPK



IPE 400 IPK 400



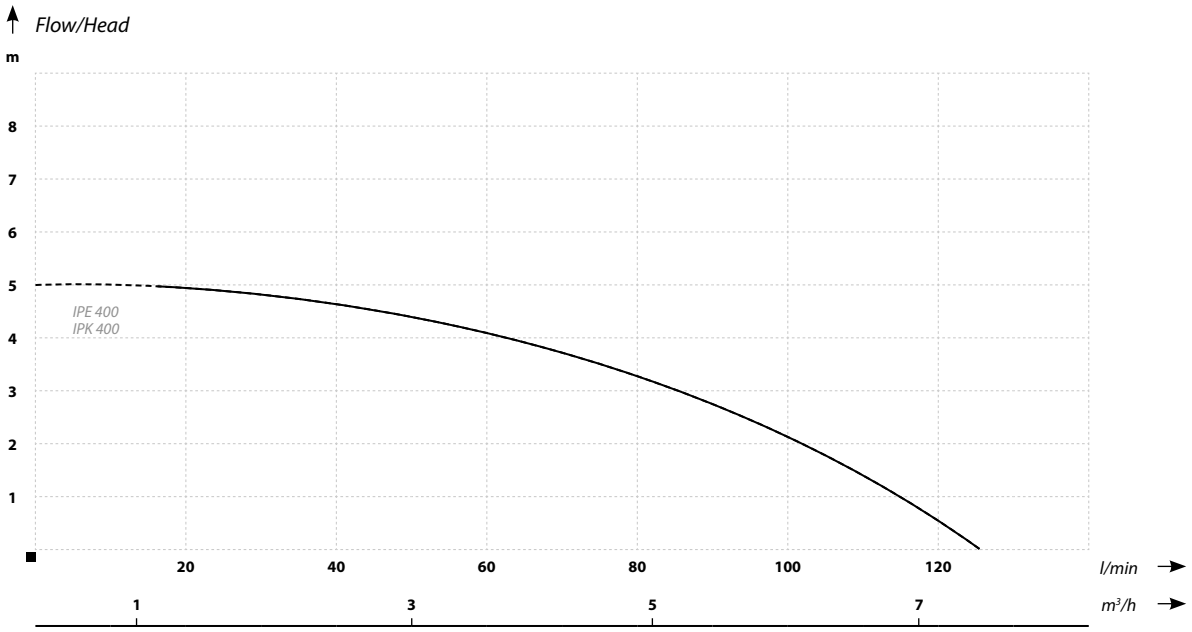
IPE 400 - a submersible plastic pump designed for pumping clean and slightly contaminated water. The pumps have an outlet connection to which discharge hoses of different diameters can be connected. IPE400 is equipped with an electronic float/probe so the pump can be used in narrow wells. Small size and light weight make the pumps exceptionally easy to operate and maintain. All pumps are supplied with thermal protection mounted in the motor winding.

IPK 400 - the pump has a similar design to IPE pumps but the switch is not based on the probes but on the float operating in a vertical position inside a special channel. Like IPE pump, it can be placed in a narrow well, which may not be possible with IP pumps due to a float switch connected with a 30 cm cable, which increases the diameter of the pump.

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:
- IPE / IPK
- Housing: Technopolymer
- 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)
IPE 400	5	125	400	230	30	3	1 - 1½	23/39	4
IPK 400	5	125	400	230	30	3	1 - 1½	26/39	4,5

IPC 550



Adapter 1



Adapter 2



Adapter 3

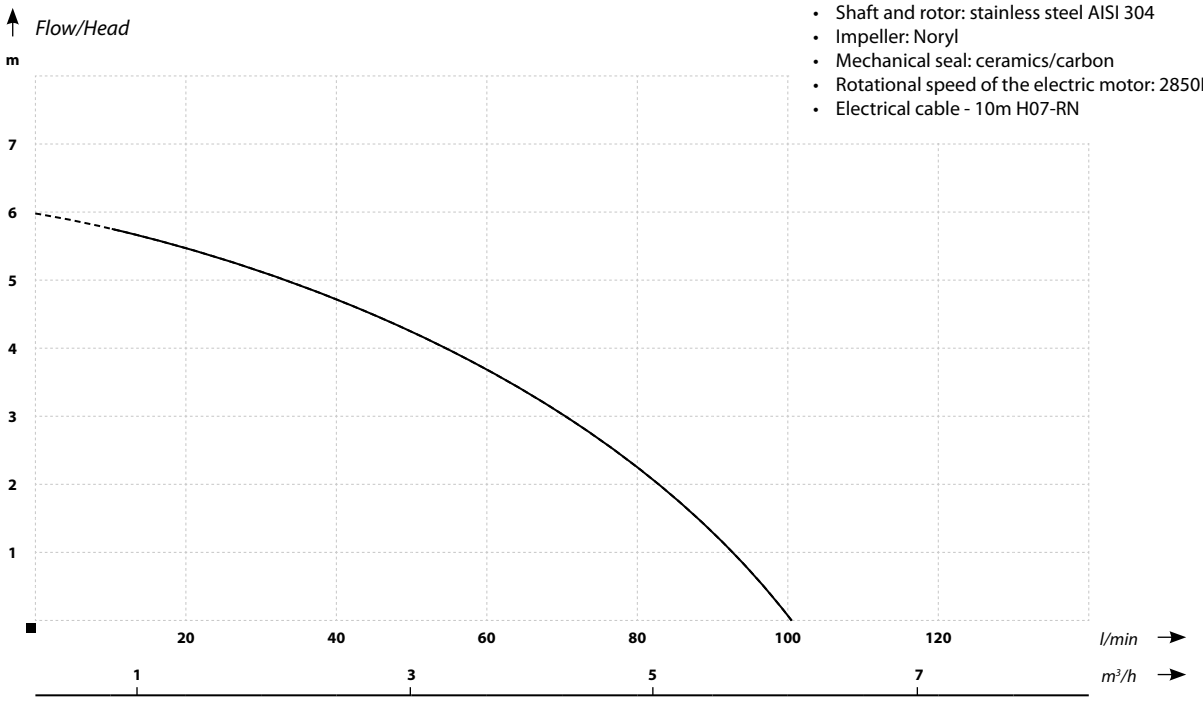


A submersible plastic pump designed for pumping clean and slightly contaminated water. IPC 550 pump has a threaded outlet connection with a built-in non-return valve to which 3 different adapters can be attached in order to adapt the outlet diameter to individual requirements. The pumps have a cooling 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

NEMO/ VM60

VIBRATION PUMPS



VM60



NEMO

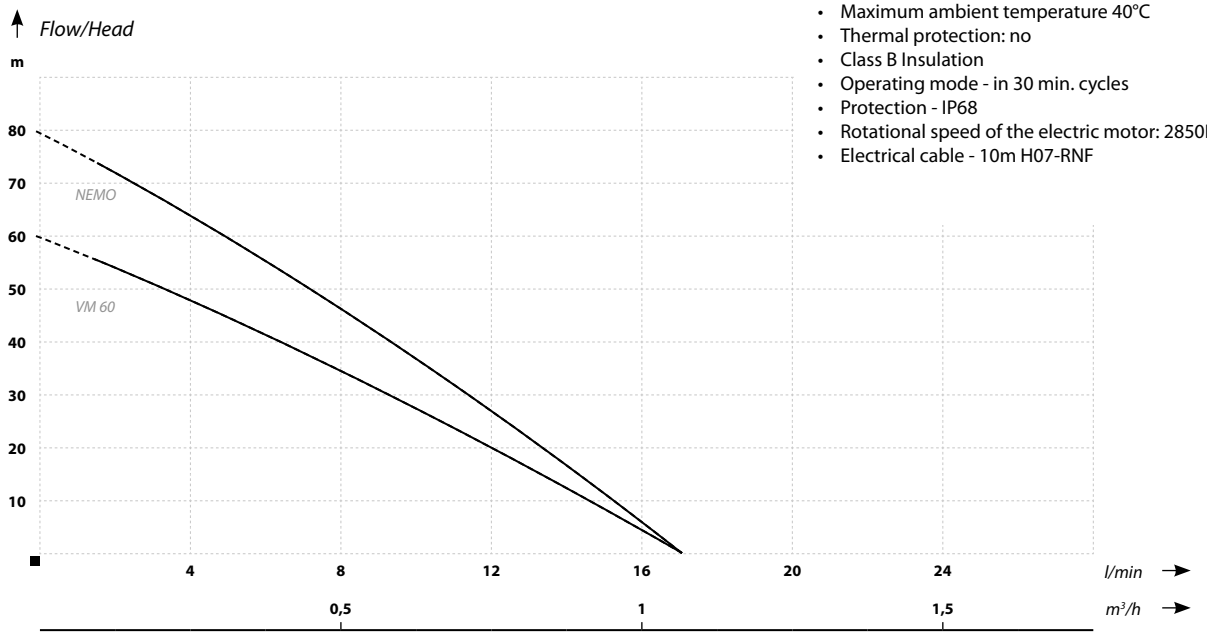


105 mm diameter vibration pumps for irrigation. Due to their high efficiency, NEMO and VM60 submersible vibration pumps are perfect for irrigation with clean water. Despite the small size, the pump design based on solenoids allows creating high pressure required for irrigation. Due to their compact size and low weight, vibration pumps are very popular among allotment gardeners. Pumps are equipped with a 10 m power cable. Pump housing is made of aluminium. Compact-size Nemo and VM60 pumps can operate even in small wells. The minimum diameter of a drilled well in which the pump can be used is 120 mm.

APPLICATION:
Supply of water to small holiday houses and irrigation of gardens.

Operating conditions:

- Maximum liquid temperature 20°C
- Maximum ambient temperature 40°C
- Thermal protection: no
- Class B Insulation
- Operating mode - in 30 min. cycles
- Protection - IP68
- Rotational speed of the electric motor: 2850RMP
- Electrical cable - 10m H07-RNF



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
VM 60	60	17	250	230	3,5	3/8	105/180	4
NEMO	80	17	250	230	3,5	½	105/180	4

MULTI IP 800 INOX
MULTI IP AUTO



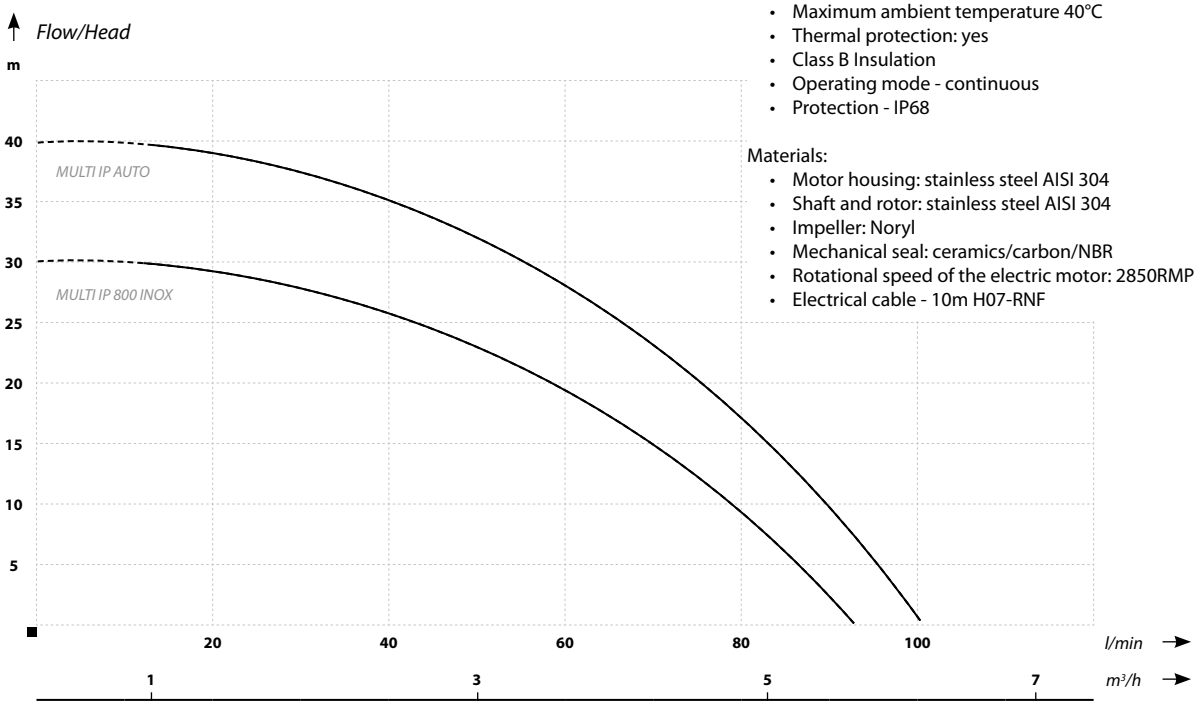
Multi IP 800 INOX
High pressure submersible pumps designed for irrigation. The pumps have a stainless steel housing and multi-stage hydraulics. The pumps have a cooling jacket so they do not have to be fully submerged. A filter screen fitted in the bottom of the pump allows water to be pumped down to 5cm. Multi IP 800 INOX is equipped with a float switch for automatic pump control. Like IPE and IPK pumps, all pumps are supplied with thermal protection mounted

Multi IP 1000 AUTO
Pumps with the same hydraulic components as Multi IP 800 INOX but with the the built-in pump operation controller instead of the float switch. When the outlet valve is closed, the pump is stopped and goes into standby mode maintaining a constant pressure in the system. When the outlet valve is opened, the pump will automatically start.

APPLICATION:
Supplying houses with water from ring wells and for garden irrigation systems. The pumps can be used in waterholes and for obtaining water from intakes with water surface close to the ground level.

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

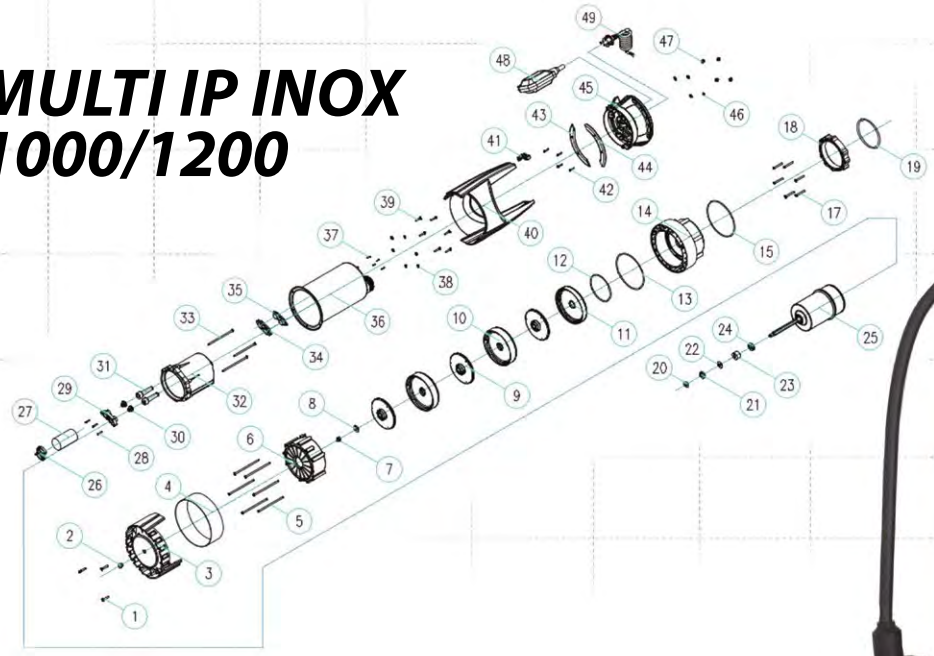
Materials:
- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Electrical cable - 10m H07-RNF



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)
MULTI IP 800 INOX	30	92	800	230	0,5	3,5	1 / 1 ½	17/36	8,25
MULTI IP AUTO	40	100	1000	230	0,5	5,2	1 / 1 ½	17/53	10

MULTI IP INOX 1000/1200





A series of high pressure submersible pumps for irrigation. The pumps have a stainless steel housing and multi-stage hydraulics. The pumps have a cooling jacket so that they do not have to be fully submerged. A filter screen fitted in the bottom of the pump allows water to be pumped down to 10 cm. Both Multi IP INOX pumps are equipped with a float switch for automatic pump control. Like IPE and IPK pumps, all pumps are supplied with thermal protection mounted in the motor winding.

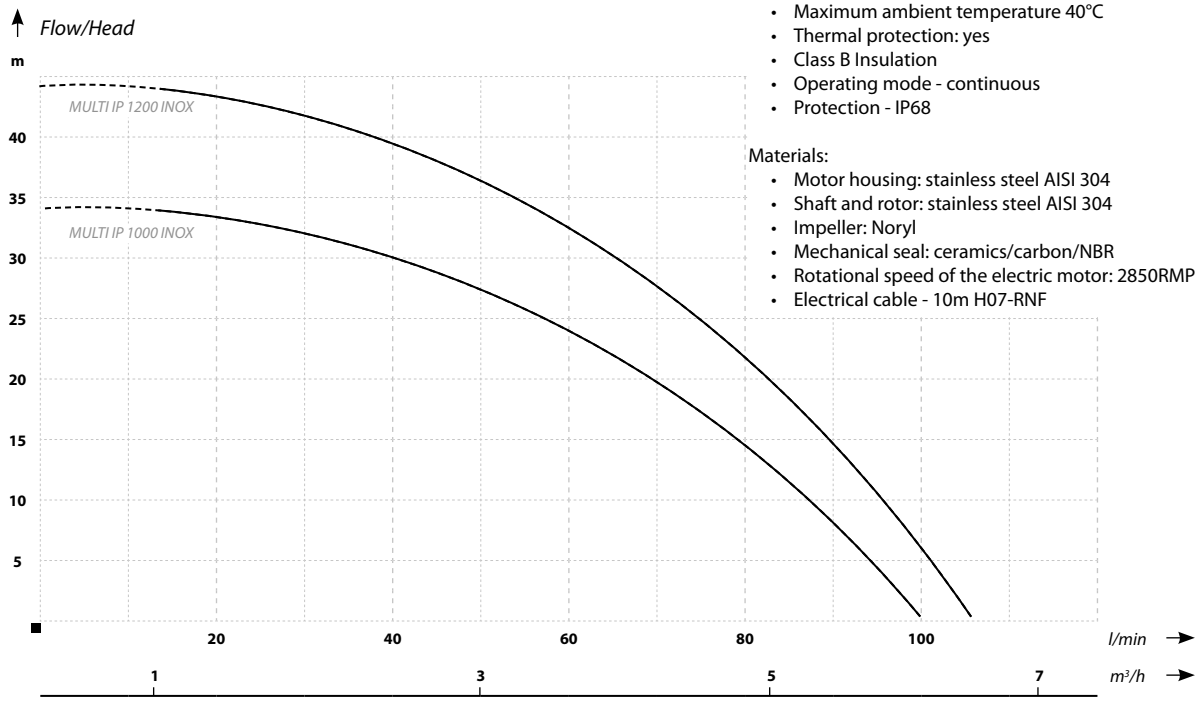
APPLICATION:
Supplying houses with water from ring wells and for garden irrigation systems.
The pumps can be used in waterholes and for obtaining water from intakes with water surface close to the ground level.

Operating conditions:

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

Materials:

- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: Noryl
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Electrical cable - 10m H07-RNF



PARAMETERS

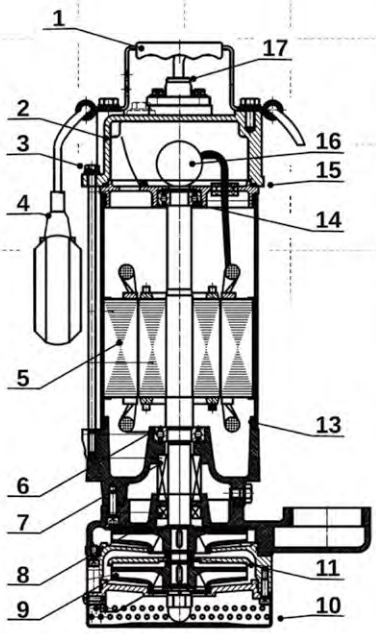
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
MULTI IP 1000 INOX	34	100	1000	230	0,5	3,7	1½	18/41	10
MULTI IP 1200 INOX	44	105	1200	230	0,5	4,8	1½	18/41	11

H-SWQ


H-SWQ 1500


H-SWQ 2200


H-SWQ 1800



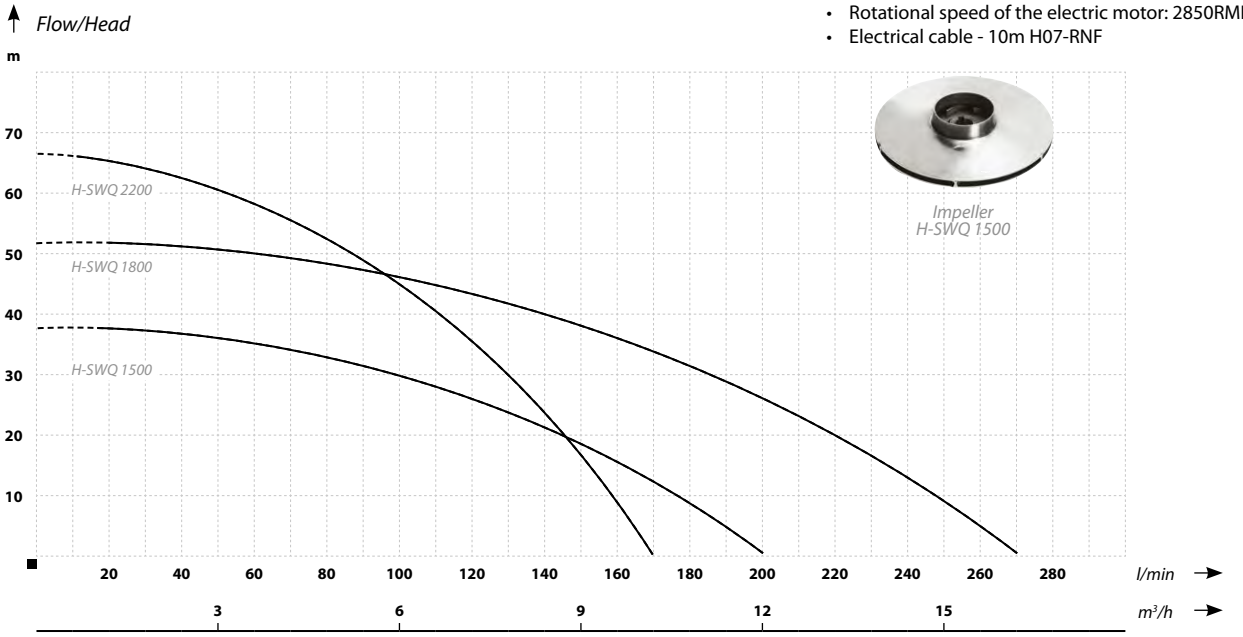
H-SWQ 1800

High-pressure submersible pumps designed for pumping clean and slightly contaminated water. Due to the high head, the pumps are used in agriculture, for irrigation. Design and materials used allow pumping water that contain small amounts of mechanical impurities with maximum particle diameter of 1 mm. The pumps should not pump water with sand. H-SWQ 1500 and H-SWQ 1800 pumps are equipped with a float switch for automatic pump control. The H-SWQ 1800 pump impellers are made of durable plastic, H-SWQ 1500 and H-SWQ 2200 pumps impellers are made of stainless steel. All pumps are equipped with thermal protection mounted in the motor winding.

APPLICATION:
Irrigation and drainage in agriculture, supply of water to households and agricultural holdings from ring wells, lakes and rivers, irrigation of gardens. Draining flooded rooms, houses, garages and premises.

Operating conditions:
- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation (F: H-SWQ 1800)
- Operating mode - continuous
- Protection - IP68

Materials:
- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- H-SWQ 1800 impeller: Noryl
- H-SWQ 1,5 Impeller: stainless steel AISI 304
- H-SWQ 2,2 Impeller: stainless steel AISI 304
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Electrical cable - 10m H07-RNF



Impeller
H-SWQ 1500

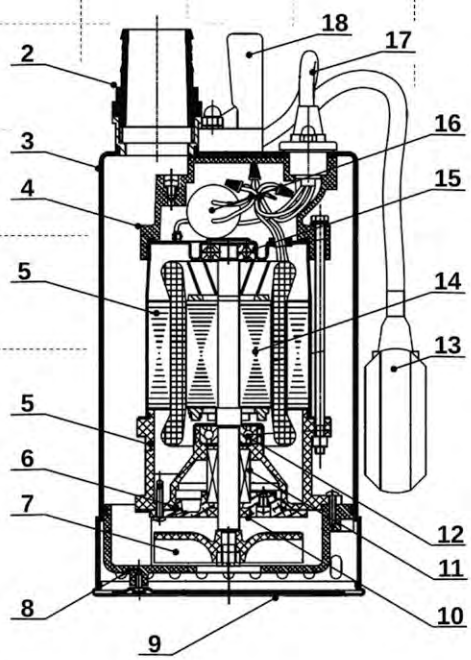
PARAMETERS

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)
H-SWQ 1500	38	200	1500	230	5	7,7	1½	18/47	15,5
H-SWQ 1800	53	270	1800	230	2	12	2	27/66	27
H-SWQ 2200	66	170	2200	230	2	15,5	2	19,5/74	29

SWQ / F-SWQ



SWQ F-SWQ

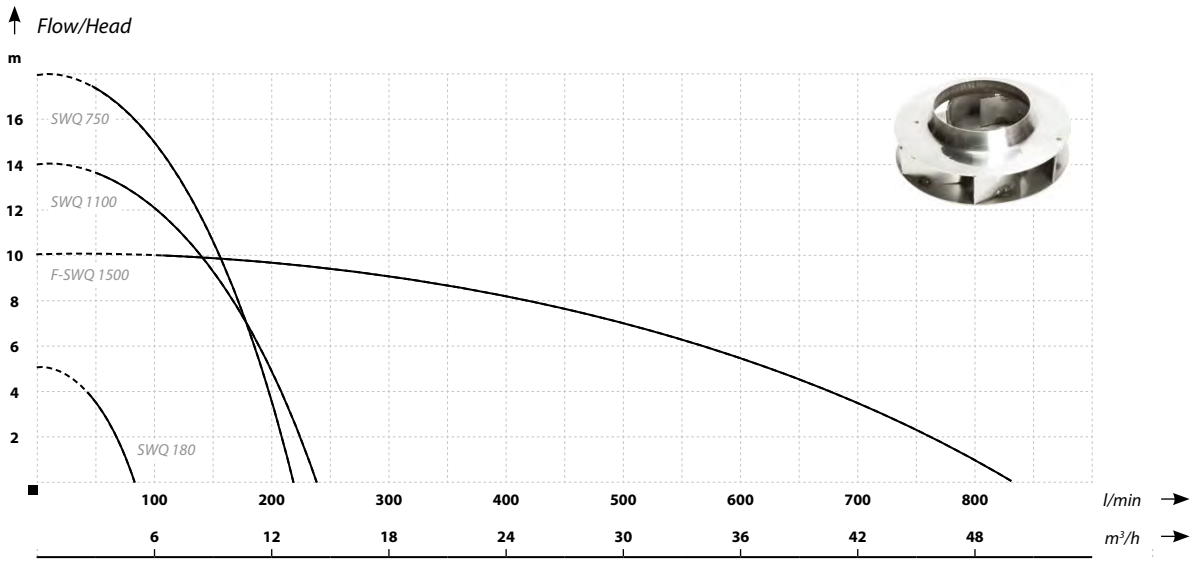


Submersible pumps designed for pumping clean and slightly contaminated water. Due to the top quality stainless steel design, the pumps ensure long-term and reliable operation. The motor is equipped with thermal protection mounted in the winding. The pumps have a cooling jacket so that they do not have to be fully submerged. Compared to other SWQ pumps, the F marked pump provides a very high flow of up to 830 l/min. All pumps except the SWQ180 have impellers made of stainless steel and are equipped with float switches for operation control. Due to small size (12 cm diameter), the SWQ180 pumps can be used to extract water from small, narrow wells. The pumps do not have a float.

APPLICATION:
Pumping rainwater and surface water from ponds, lakes and rivers, supply of water to waterholes. Draining flooded rooms, houses, garages and premises, management of fish farms.

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

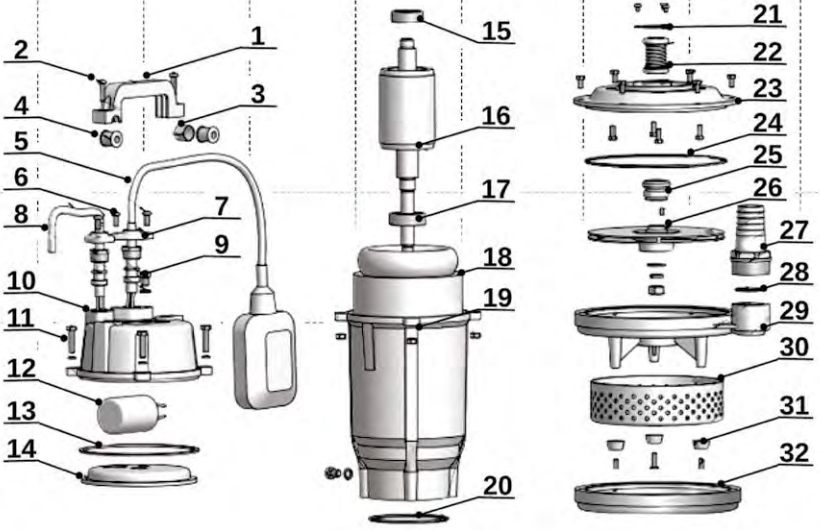
Materials:
- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP



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)
SWQ 180	5,5	70	180	230	2	0,7	¾	12/16	3,5
SWQ 750	18	220	750	230	5	4,6	2	18/38	12,5
SWQ 1100	14	235	1100	230	5	6	2	17/40	13
F-SWQ 1500	10	830	1500	230	5	7,7	2	19/41	15

WQX



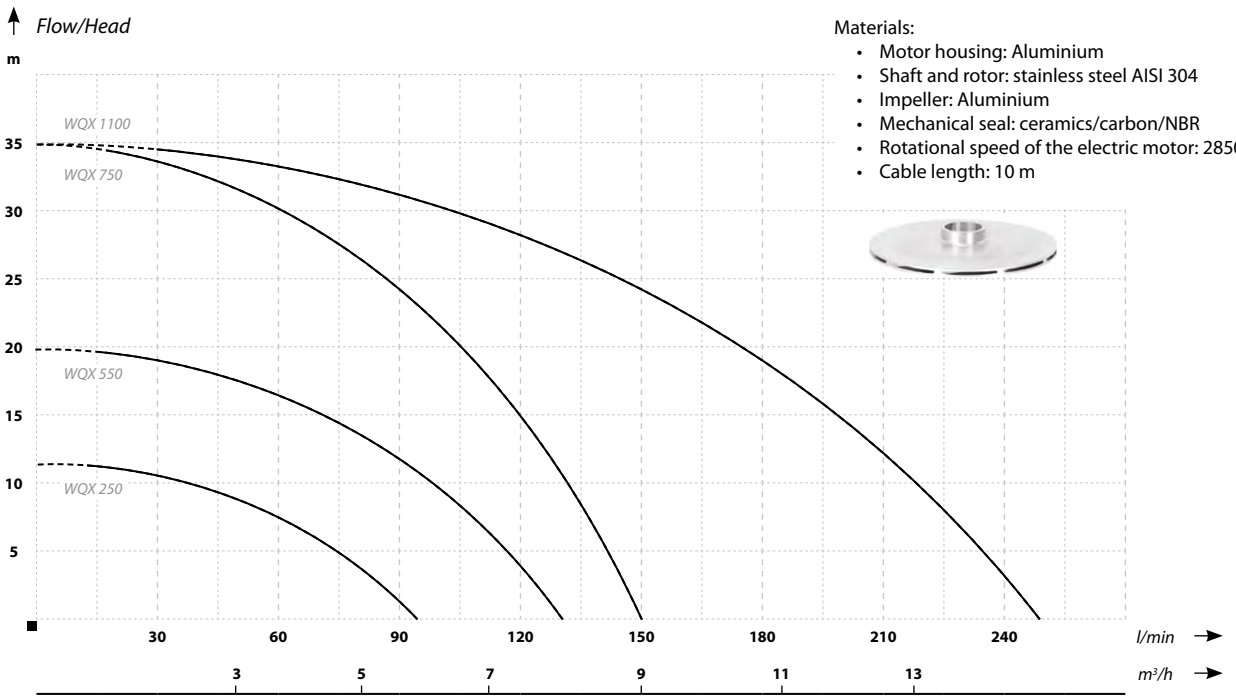


Submersible pumps designed for pumping clean and slightly contaminated water.
The motor housing is made of aluminium and the motor is equipped with thermal protection mounted in the winding. High pressure is a special feature of the WQX series pumps. Pump operation is controlled by a float switch. The WQX 250 are available with and without the float switch.

APPLICATION:
Pumping rainwater and surface water from ponds, lakes and rivers, supply of water to waterholes. Draining flooded rooms, houses, garages and premises.

Operating conditions:
- Maximum liquid temperature 30°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-8

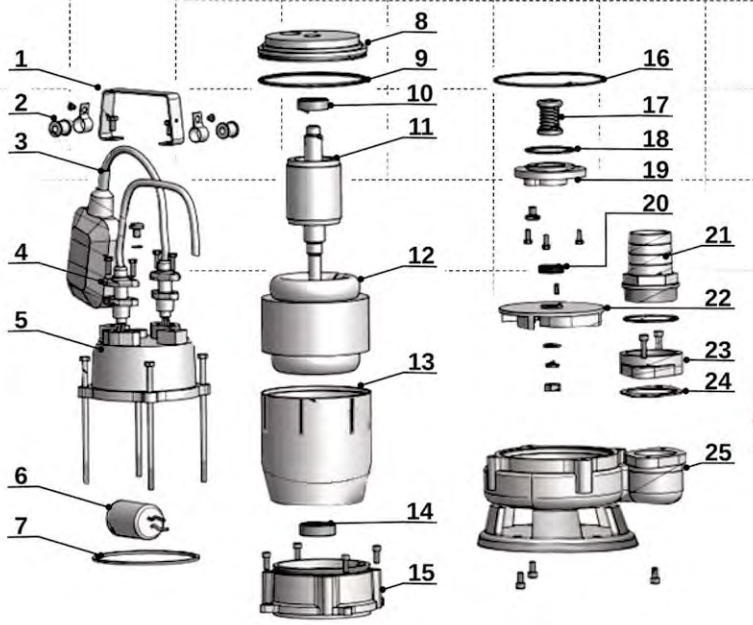
Materials:
- Motor housing: Aluminium
- Shaft and rotor: stainless steel AISI 304
- Impeller: Aluminium
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Impeller passage (mm)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
WQX 250	12	100	250	230	3	2	1	19/38	6
WQX 550	20	130	550	230	3	3,8	1	20/40	8,5
WQX 750	35	150	750	230	3	5,2	1	24/40	10
WQX 1100	35	250	1100	230	3	6,4	1½	26/45	13

MAGNUM



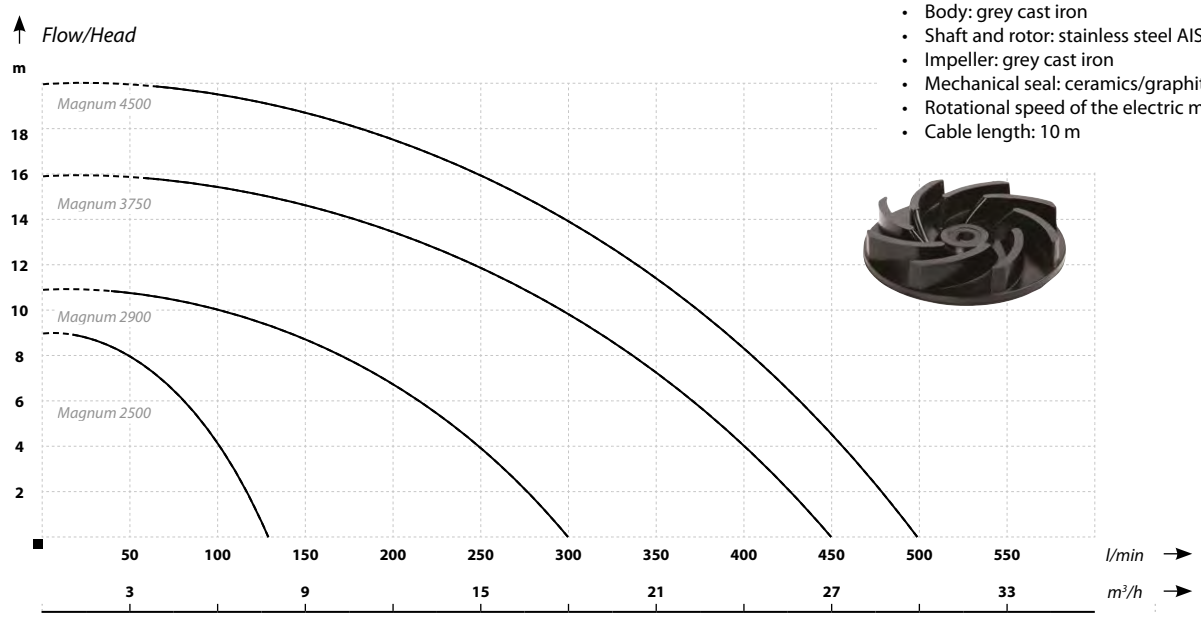


Submersible pumps designed for pumping sewage and water from flooded premises. The pump is available with a float switch for automatic operation control or without the float switch. Threaded outlet connection and a set of adapters provide connection of the discharge hose with a hose clamp or fast-connection 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

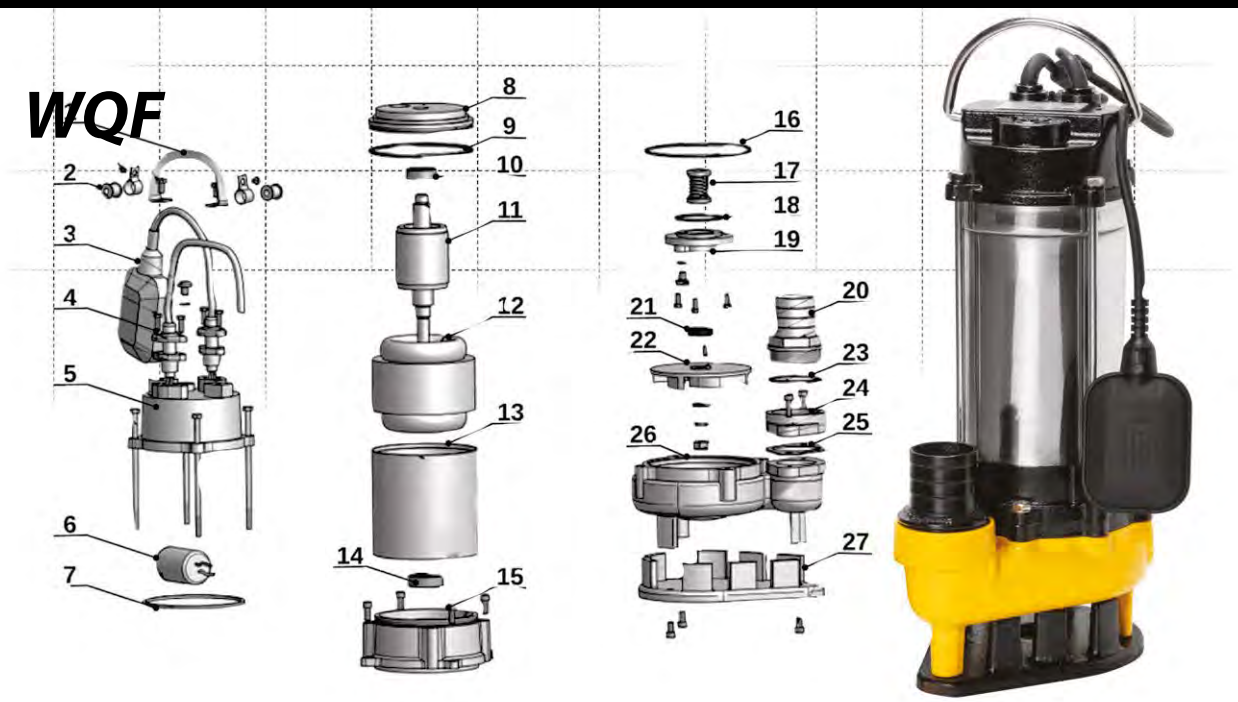
Operating conditions:
- Maximum liquid temperature 35°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-8

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

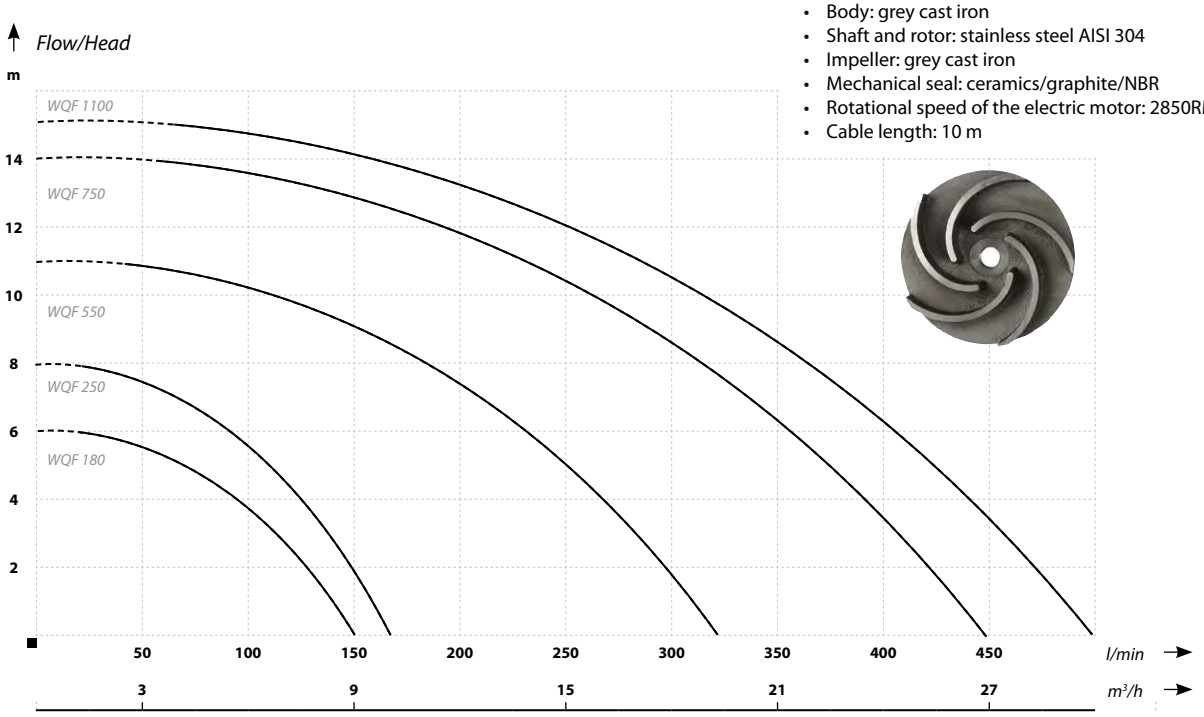


Submersible pumps designed for pumping sewage, dirty water, and water from flooded premises. The pumps are equipped with float switches for automatic pump control. Threaded outlet connection and a set of adapters provide connection of the discharge hose with a hose clamp or fast-connection coupling. 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



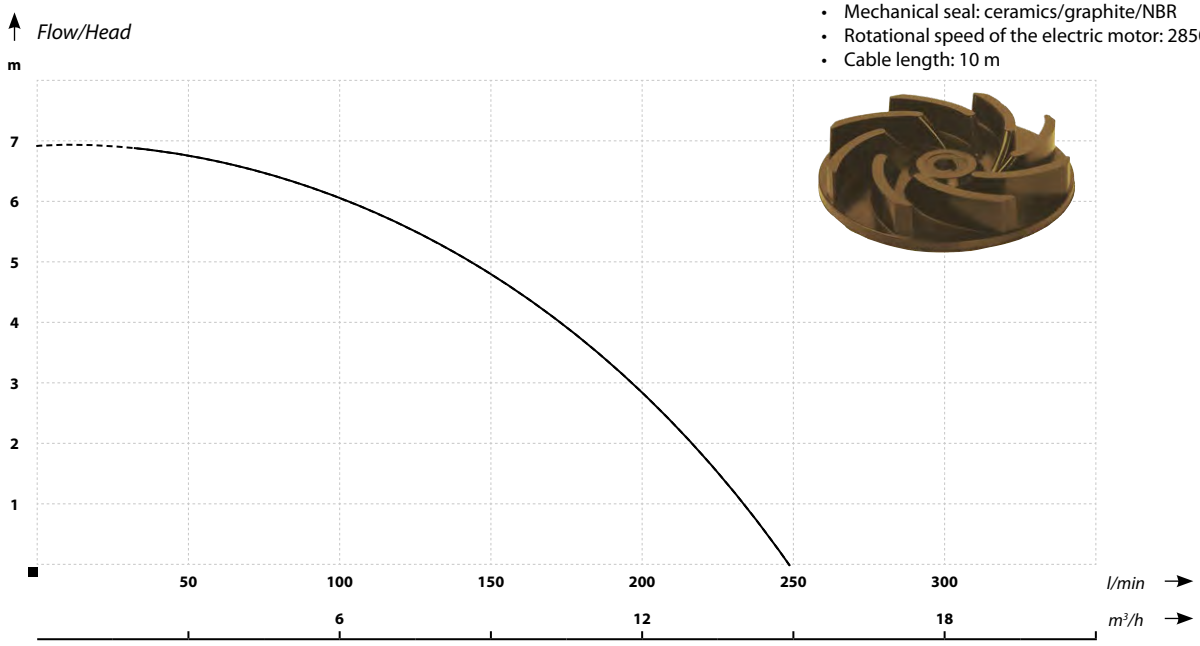


Submersible pumps designed for pumping sewage, dirty water, and water from flooded premises. SN-450 pump is made of cast iron with VORTEX-type impeller. It can pump water with mechanical impurities with particle diameter of up to 20 mm. The pump is equipped with a vertical float switch for easy automatic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

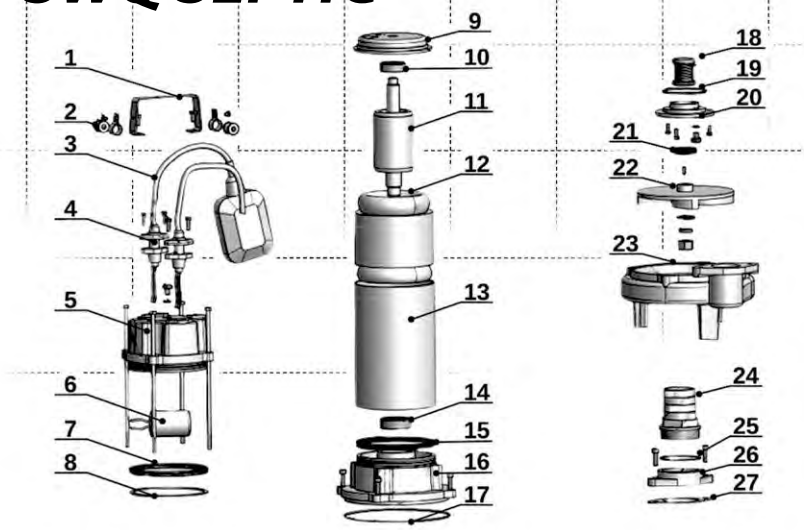
Materials:
- Motor housing: grey cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



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



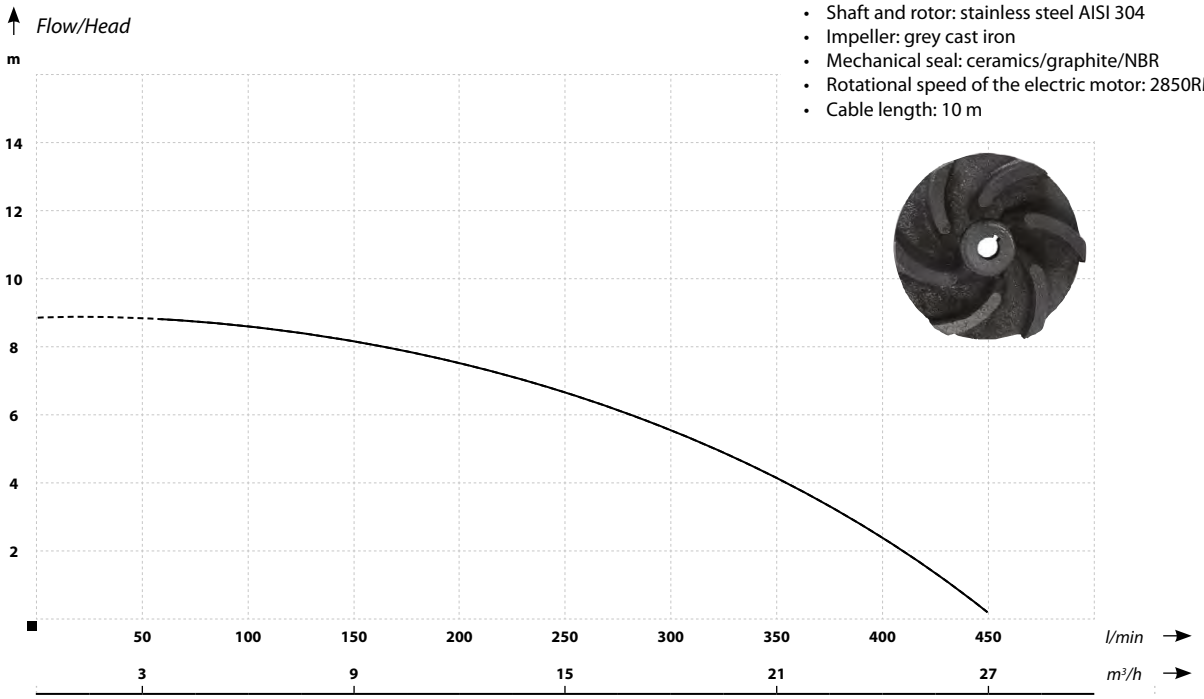


Submersible pump with a 40mm passage Vortex impeller for pumping sewage, dirty water and water from flooded rooms. SWQ SEPTIC pumps are made of stainless steel and cast iron in order to withstand the adverse sewage environment. Pump outlet connection provides connection of the discharge hose with a hose 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

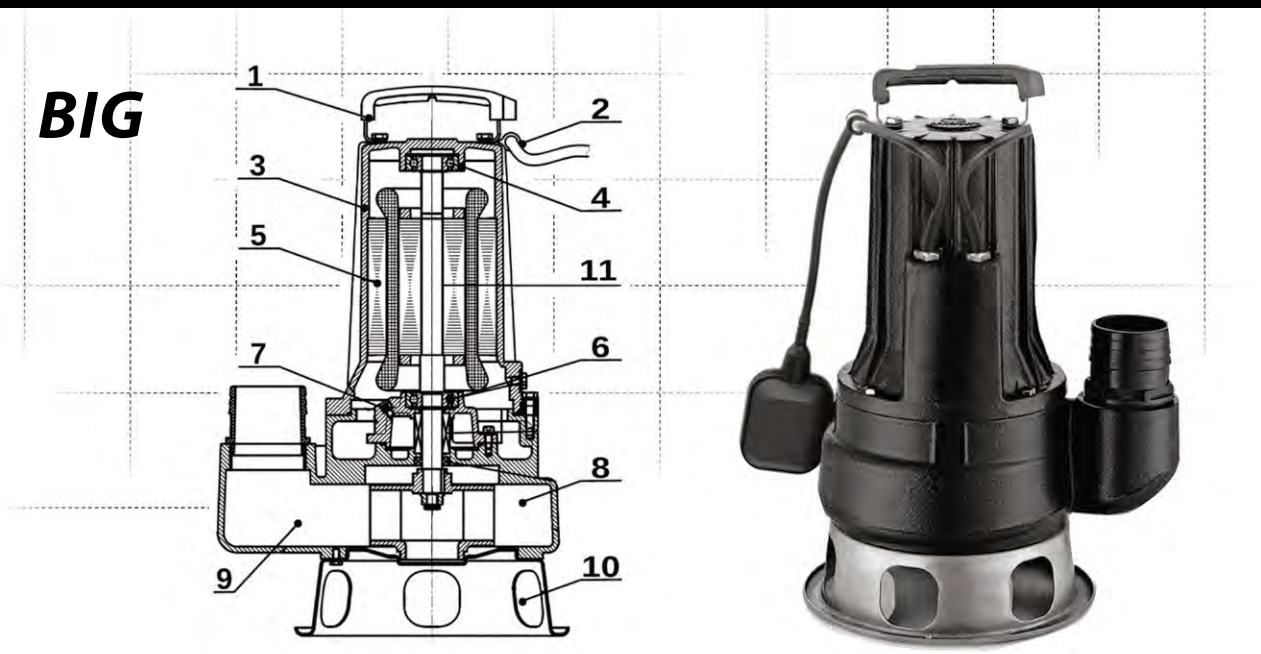
Materials:
- Motor housing: stainless steel AISI 304
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



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

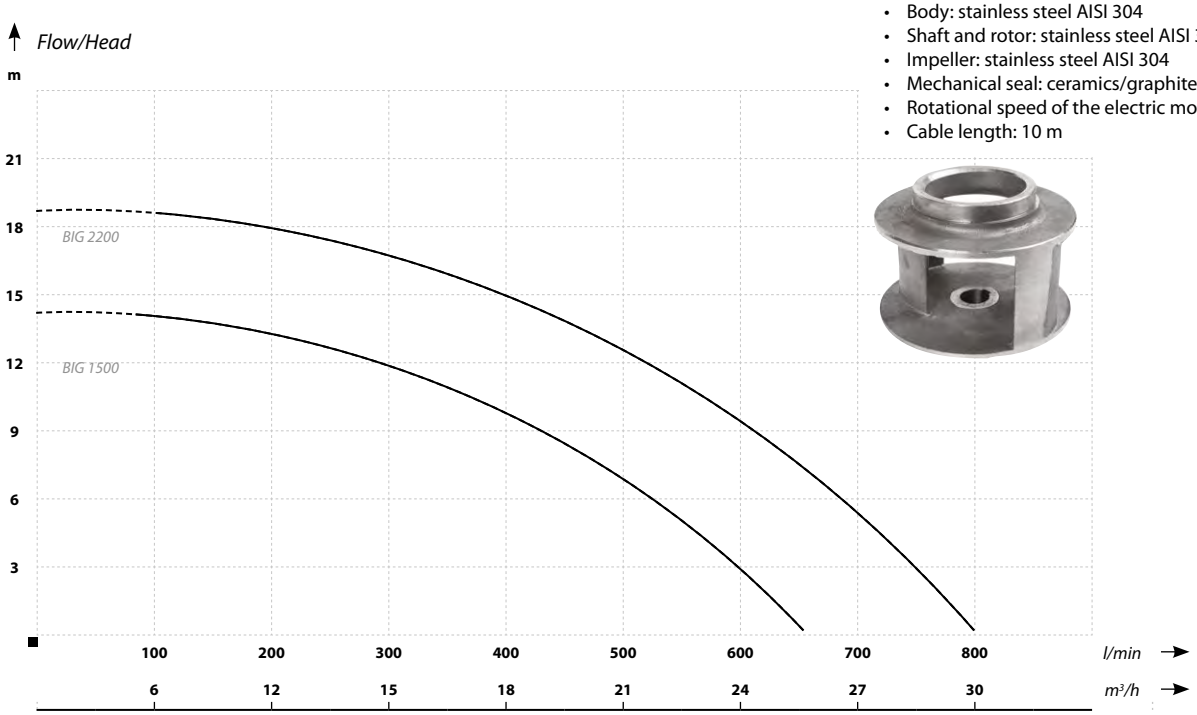


Professional submersible sewage pumps with two-channel impeller. The BIG 1500 pump is available as 230 V ~/50 Hz version, BIG 2200 - as 400 V ~ 3 / 50 Hz. The impeller design reduces the risk of its clogging and ensures pumping of medium containing solids with maximum particle diameter of 50 mm. The 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: 1.2x10^3kg/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

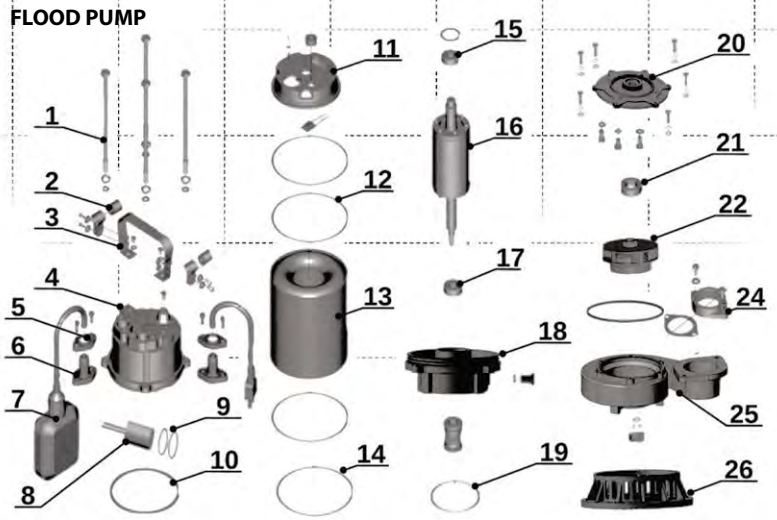


PARAMETERS

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

SWQ PRO

FLOOD PUMP



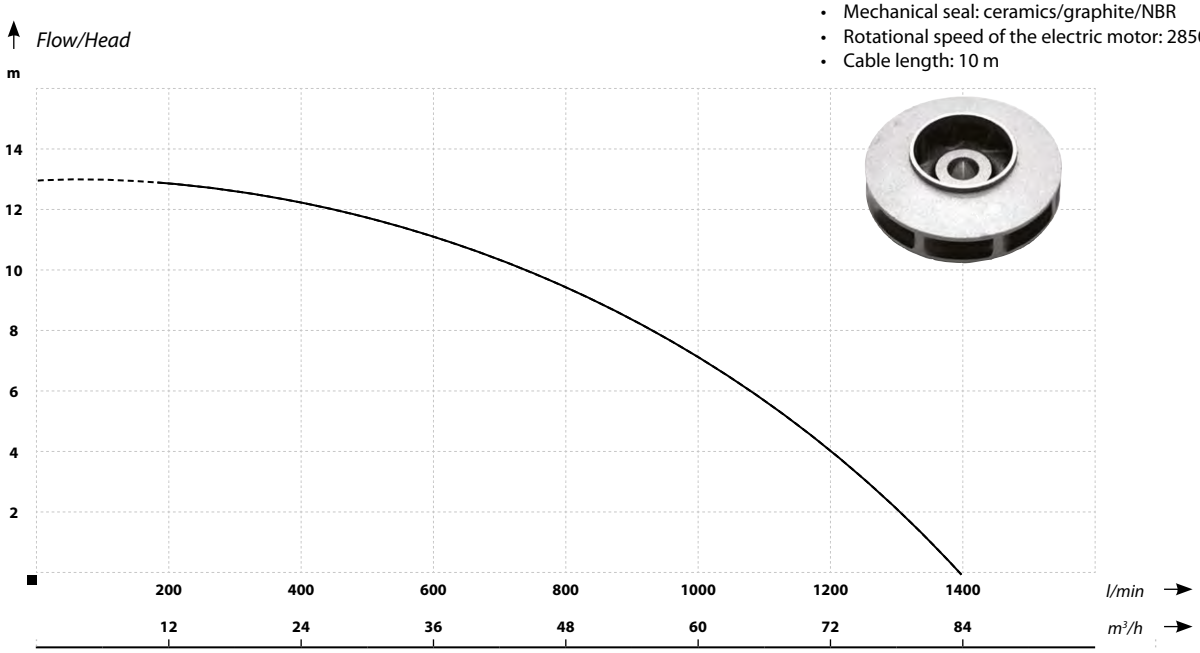


FLOOD PUMP
Professional submersible pump compliant with the most demanding European standards, intended for customers using drainage pumps in their professional work. Due to the use of a closed impeller, the pump can pump clean and slightly contaminated water.
With its 1500 W motor, 3-inch outlet, and maximum flow of up to 1400l/min, as well as a relatively low weight, the pump can be used to drain flooded houses, premises and garages during minor and major flooding. The pump is equipped with a float switch for operation control and thermal protection mounted in the motor winding.

APPLICATION:
Pumping rainwater and surface water. Drainage of flooded households, agriculture farms, premises and garages. Pumping cooling or process water in industrial systems. Used in agriculture for draining and irrigation. The pump can be used in fish farms.

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: 5-9
- Liquid density: 1.2x10^3kg/m^3

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

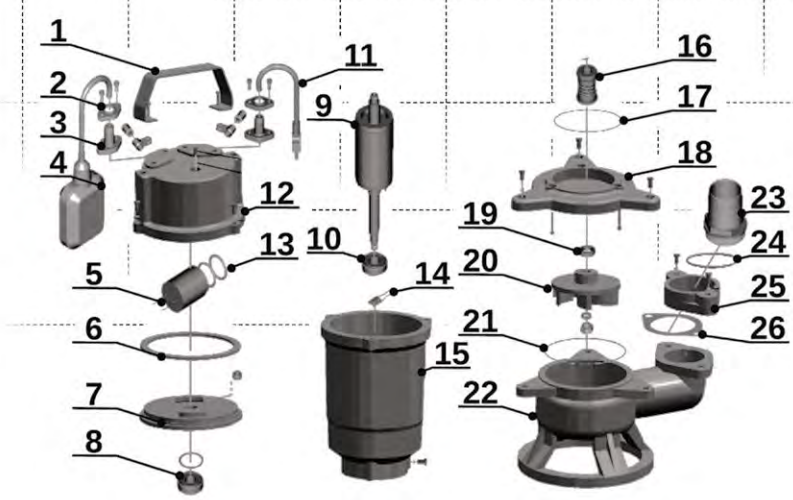


PARAMETERS

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 1500 PRO	13,5	1400	1500	230	3	9,5	3	29/54	25

WQ PRO

CONSTRUCTION PUMP





Submersible pump with a 40mm passage Vortex impeller for pumping sewage, dirty water and water from flooded rooms. The pump is compliant with the most demanding European standards, therefore it is intended for customers using such products in their professional work. WQ PRO pumps are made of 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 WQ PRO pump is equipped with thermal protection mounted in the motor winding and a float switch for operation control. The WQ 1500 PRO pump is mainly intended for customers in the civil engineering industry, where the top quality and high performance is required. It can also be used in industrial applications.

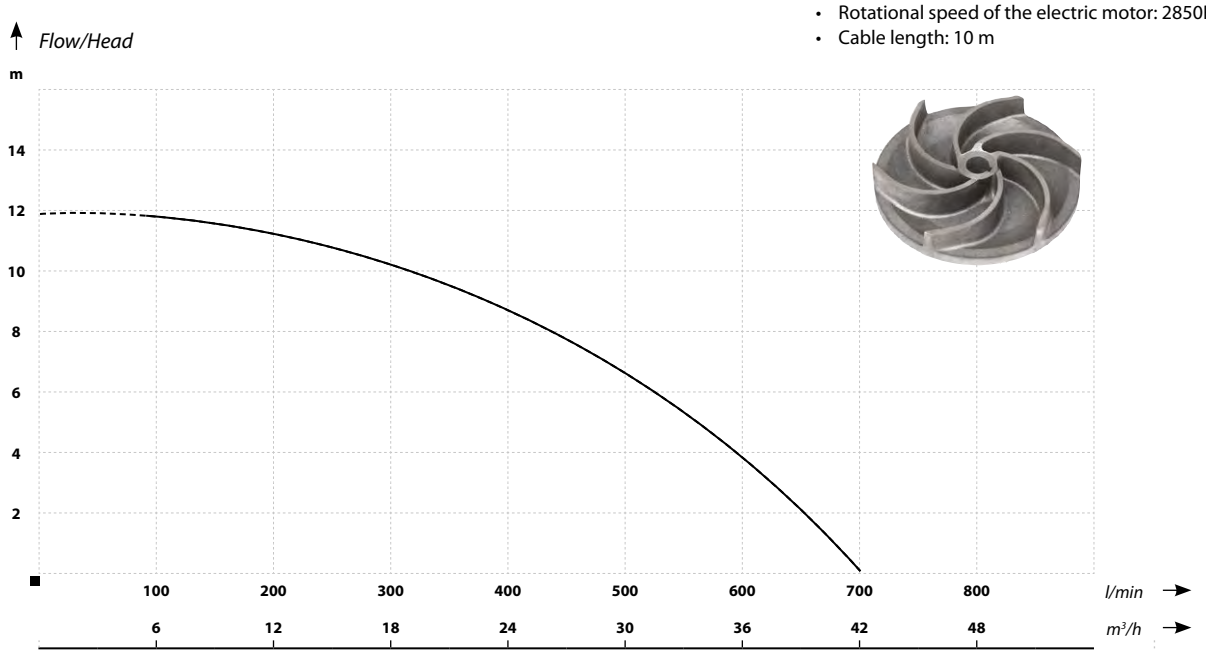
APPLICATION:
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

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: 5-9

Materials:

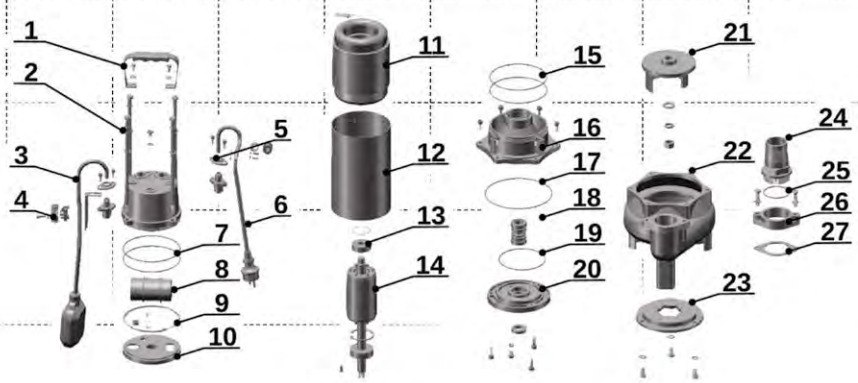
- Motor housing: stainless steel AISI 304
- Body: alloy
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



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)
WQ 1500 PRO	12	700	1500	230	30	7,8	3	32/50	27

WQ PROFESSIONAL



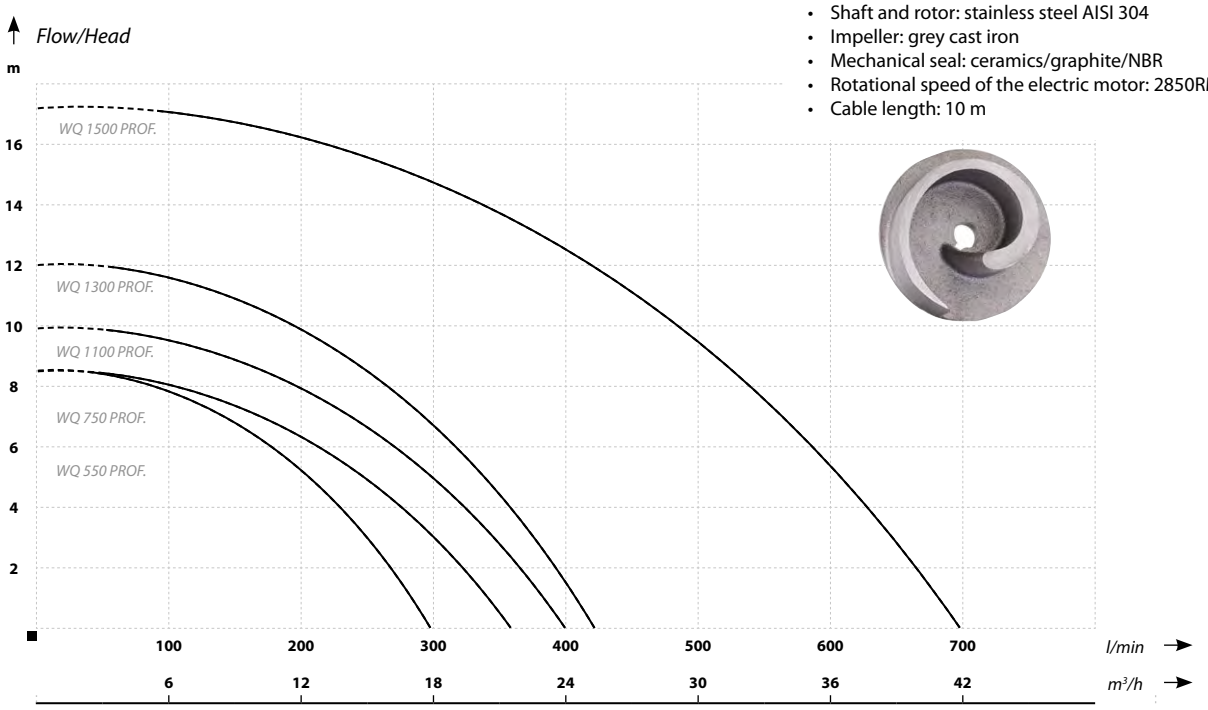


Professional submersible pumps intended for customers who need strong and durable product in their professional work. Due to the top quality materials used, such as stainless steel and cast iron, and very high performance, WQ PROFESSIONAL pumps can operate in demanding conditions and withstand the adverse sewage environment. The pumps are widely used in sewage pumping stations. All pumps feature a factory-mounted float switch for operation control and thermal protection mounted in the motor winding. Additionally, the WQ Professional 1500 pump is equipped with a cutting impeller with 50 mm passage. Discharge hose can be connected to the pump outlet with a hose clamp or fast-connection coupling.

APPLICATION:
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Sewage treatment plants. Occasional renovation works. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

Operating conditions:
- Maximum liquid temperature 400C
- Maximum ambient temperature 400C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 4-10
- Liquid density: 1.2x10^3kg/m^3

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

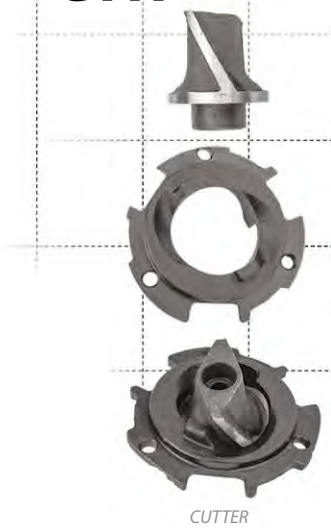
Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Impeller passage (mm)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
WQ 550 PROFESSIONAL	8,5	300	550	230	2	35	2	24/42	15
WQ 750 PROFESSIONAL	8,5	350	750	230	4	35	2	26/52	25,2
WQ 1100 PROFESSIONAL	10	400	1100	230	5,2	35	2	26/54	26,9
WQ 1300 PROFESSIONAL	12	420	1300	230	7	35	2	27/55	29,3
WQ 1500 PROFESSIONAL	17	700	1500	230	9,4	50	2	31/57	32,6

SUBMERSIBLE PUMPS
WITH CUTTING SYSTEM
BRAK NIEMIECKIEGO
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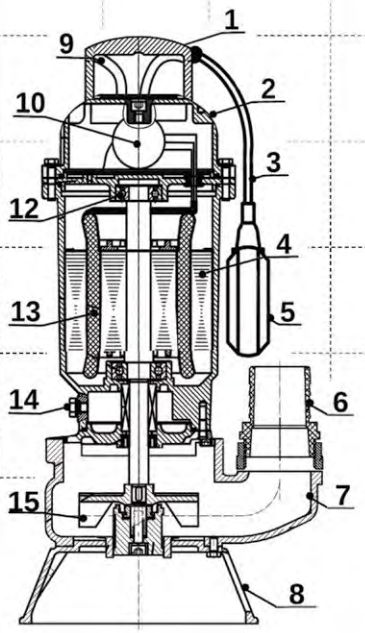
BRAK NIEMIECKIEGO



CTR



CUTTER



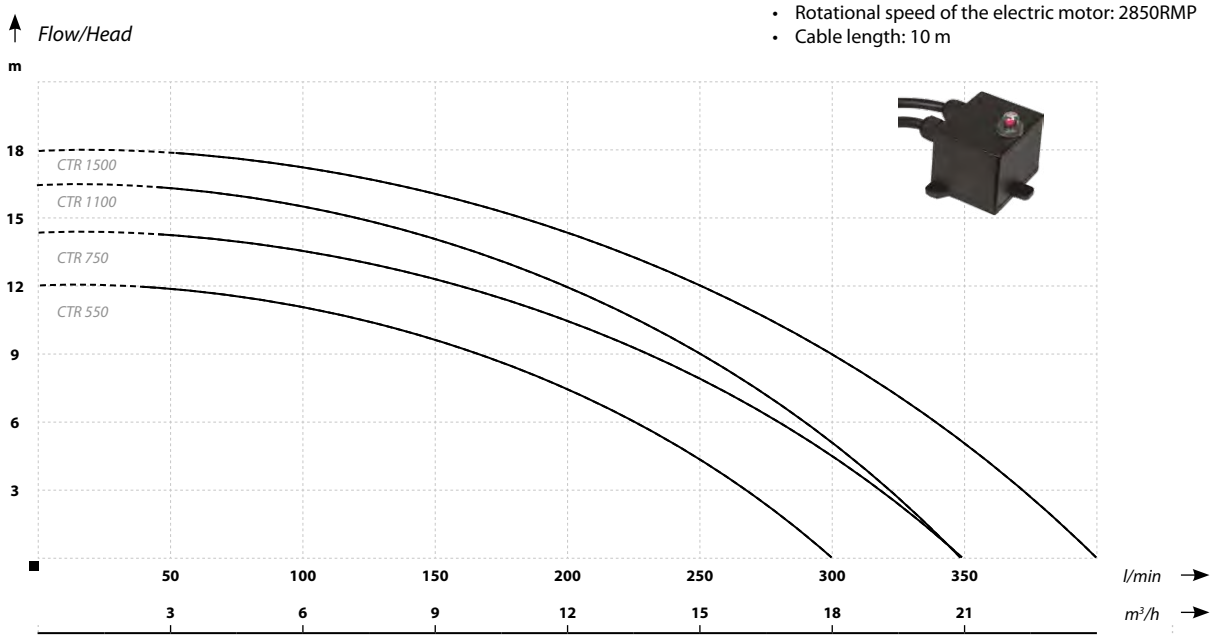


A series of submersible pumps with cutting system designed for pumping domestic sewage. In case of flooding, they can be used for draining rooms. The robust construction of the pump made of durable cast iron, the cutting system with a cutting knife and very reasonable price have made the pumps very popular among individual customers. The pumps are equipped with a float switch for automatic operation. To ensure reliable operation, the pumps are equipped with overload protection mounted on the cable. Pump outlet provides connection of the discharge hose with a hose clamp or fast-connection.

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 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



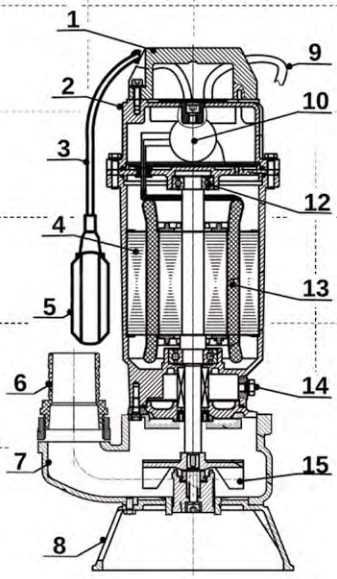
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
CTR 550	12	300	550	230	4,8	2	25/42	17
CTR 750	14	350	750	230	6,4	2	25/44	18
CTR 1100	16	350	1100	230	9	2	26/44	20
CTR 1500	18	400	1500	230	11	2	26/46	22

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/25uq0YBIw78

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:

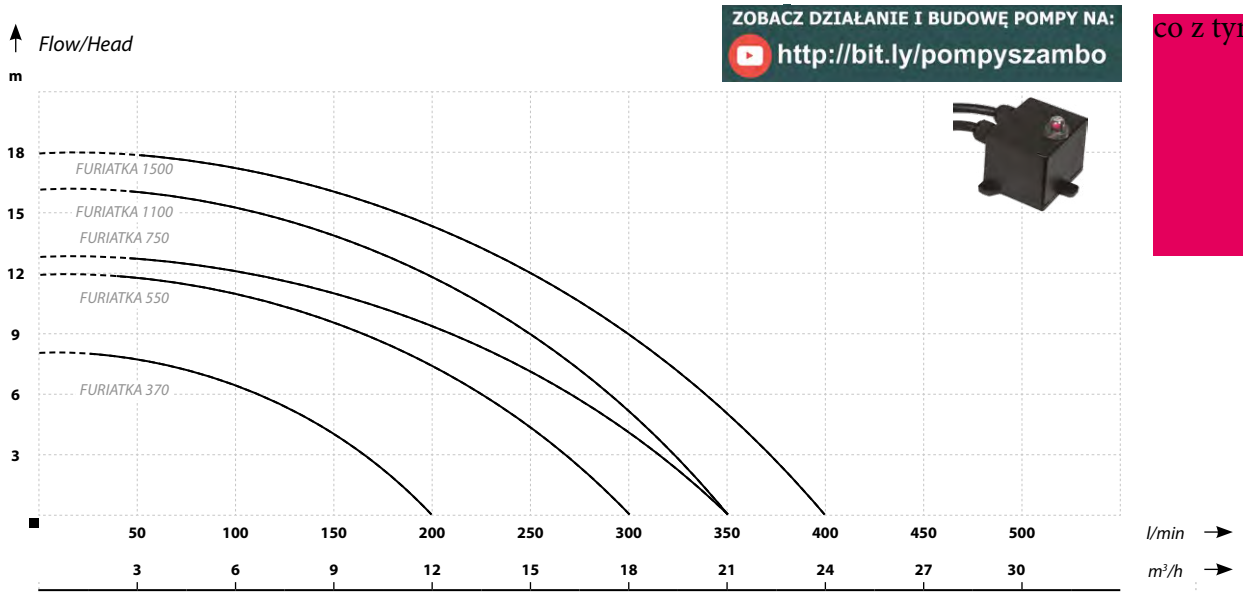
- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class B Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-9

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

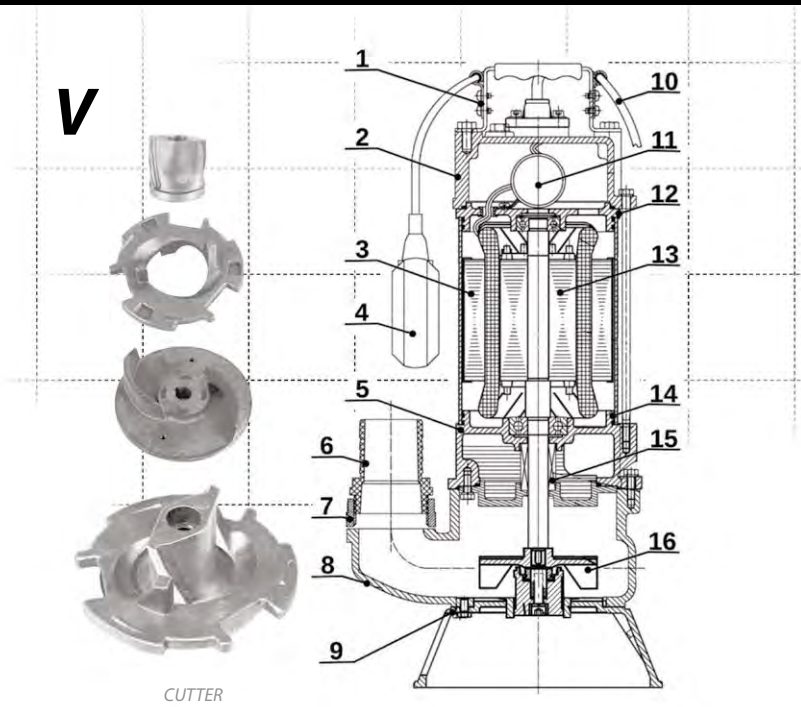
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PARAMETERS

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



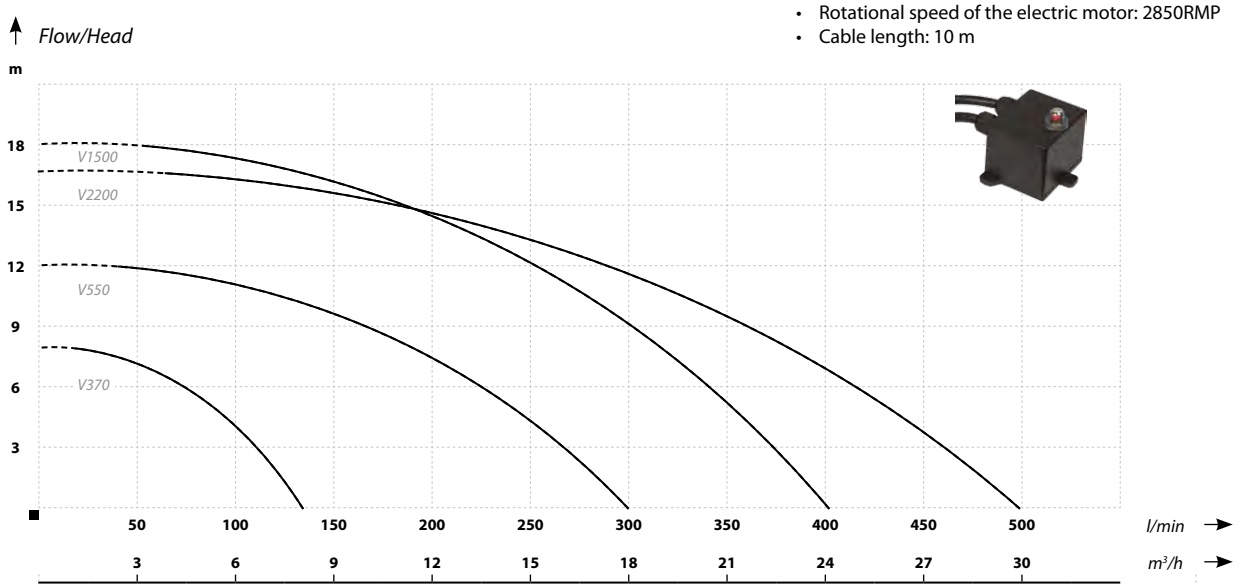


Submersible pumps with cutting system designed for pumping domestic sewage. In case of flooding, they can be used for draining rooms. Their robust design and quality materials used (stainless steel, cast iron), the cutting system with a cutting knife, and very reasonable price have made the pumps very popular among individual customers.
The pumps are equipped with a float switch for automatic operation. To ensure reliable operation, the pumps have overload protection mounted on the cable. V 550, V1500 and V2200 pumps incorporate the high efficiency "screw" cutting system. Pump outlet provides connection of the discharge hose with a hose clamp or fast-connection.

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 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
- 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

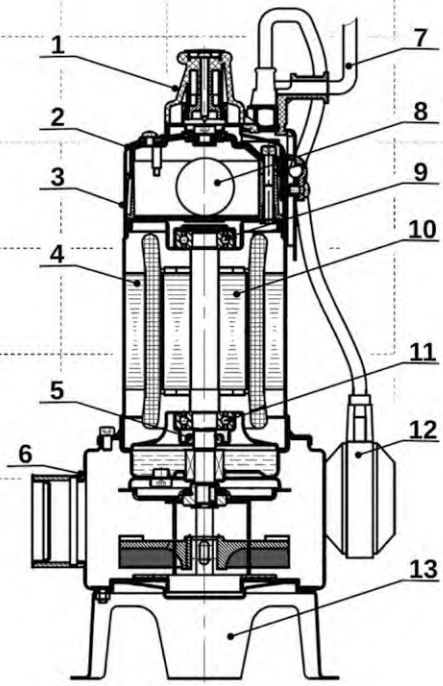


PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
V370	7,5	130	370	230	3,8	1¼	17/40	10,8
V550	12	300	550	230	5,7	2	25/44	17,5
V1500	18	400	1500	230	12,5	2	26/50	23
V 2200	16	500	1500	230	12	2	26/50	25,2

SWQ





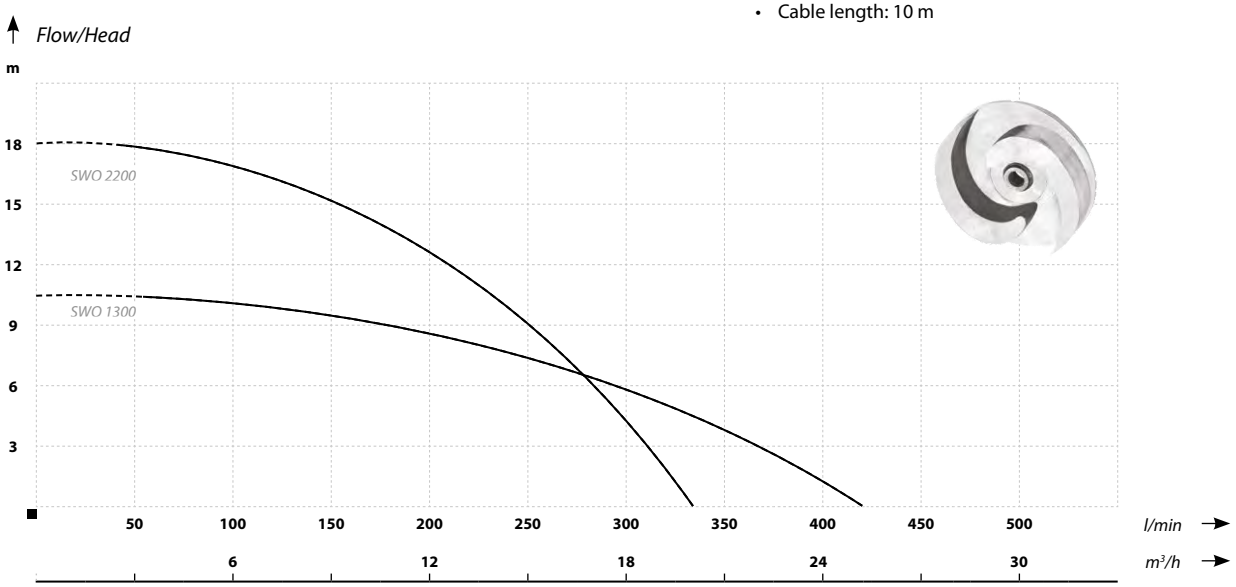


Stainless steel submersible pumps with cutting system Designed for pumping dirty water and domestic sewage. The risk of clogging has been minimized due to open cutting system. The top quality stainless steel design ensures long-term and reliable operation of the pumps. The motor is equipped with thermal 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

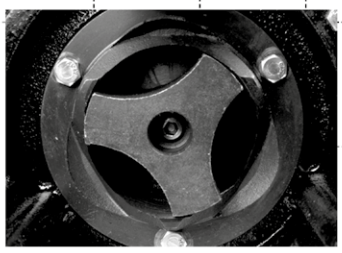
Materials:
- Motor housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller/cutting system: stainless steel AISI 304
- Mechanical seal: ceramics/carbon/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



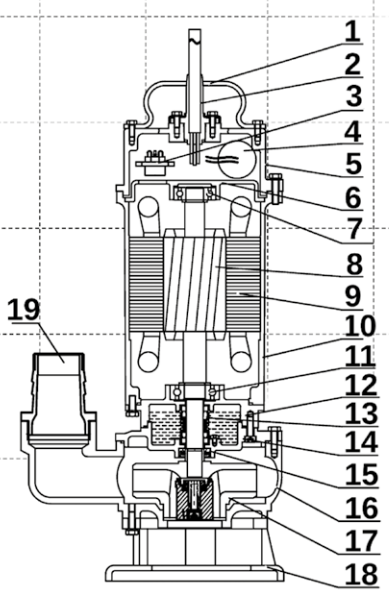
PARAMETERS

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

WQI



CUTTER



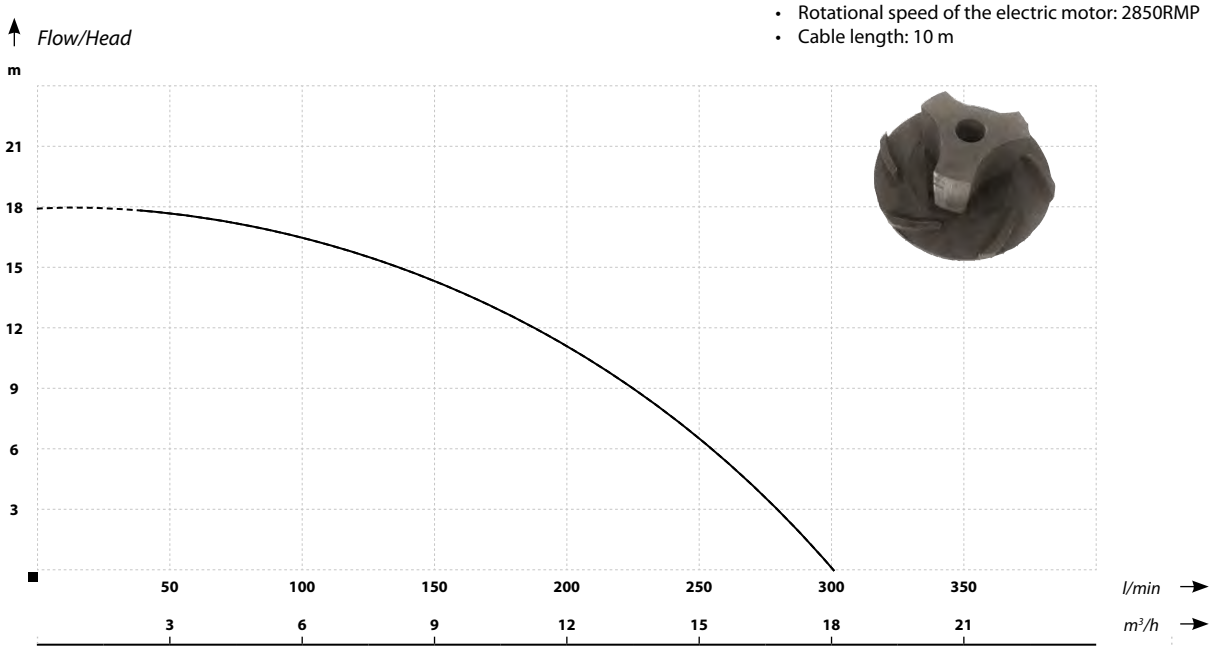


Professional submersible pump with cutting system. The pumps are designed for pumping domestic sewage and draining flooded rooms. In order to minimize the risk of clogging, the pumps are equipped with an exceptionally effective three-channel "screw" cutting system. To ensure reliable operation, the pumps have overload protection mounted in the motor winding. To prevent motor overloading, the protection will stop the pump. The construction made of cast iron, alloy and stainless steel 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.

APPLICATION:
Pumping sewage from domestic and agricultural septic tanks, and draining flooded rooms, houses, garages and premises. 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

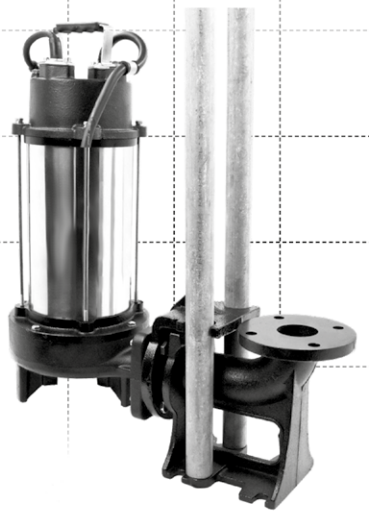
Materials:
- Motor housing: cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Cutting knife: grey cast iron/stainless steel AISI 304
- Mechanical seal: ceramics/graphite/NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (cm)	Weight (kg)
WQI 15-7-1,1	18	300	1100	230	6	2	27/51	23,7

KRAKEN



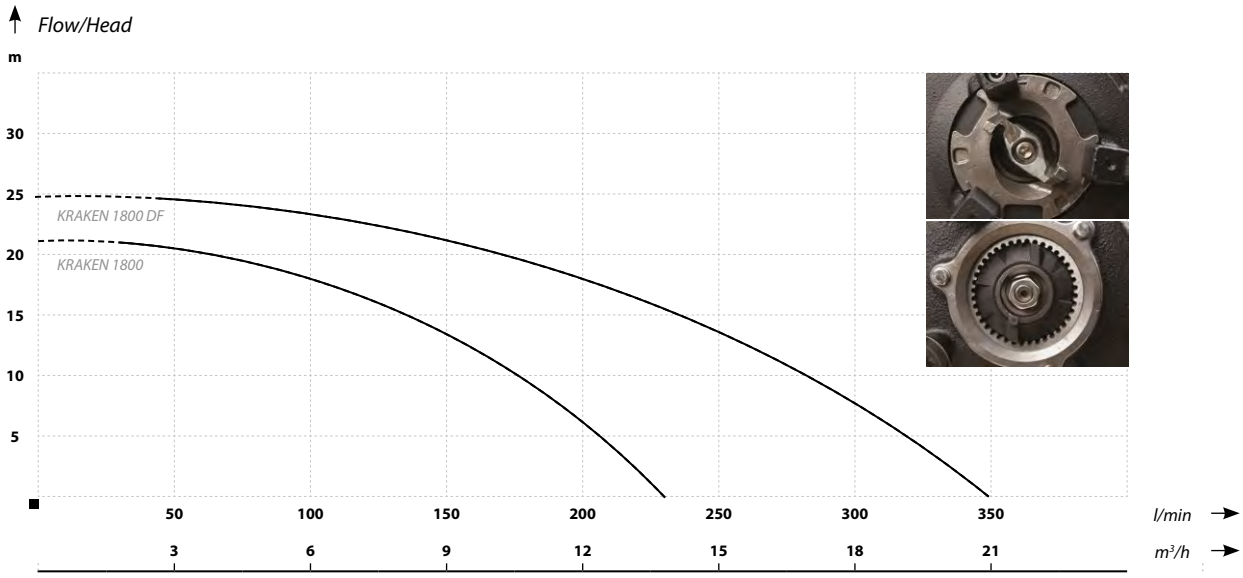


A series of professional submersible pumps with cutting system designed for customers who need a strong and reliable product in their professional work. The top quality materials used and very high performance makes KRAKEN 1800 pumps suitable for operation in harsh conditions - stainless steel and cast iron design ensures the pumps withstand the adverse sewage environment. These pumps are widely used in sewage pumping stations. Pump operation is controlled by the factory-mounted float switch. KRAKEN 1800 is equipped with a multi-channel disk cutting system in order to minimize the risk of clogging. KRAKEN 1800 DF has an exceptionally effective two-channel screw cutting system. The motors with Class F winding insulation are additionally equipped with thermal protection mounted in the winding. Both models are supplied with flanges for connecting pipes or fast-connection, and an adapter for connecting 2" discharge hose with a hose clamp. The pumps are available as single-phase 230V ~/ 50Hz versions, with a float switch, and 3-phase 400V ~ 3 / 50Hz version.

KRAKEN DF can be supplied with a guide rail system for installation in pump stations. The guide rail system is sold separately.

PUMP TEST: https://youtu.be/srPLsalKsqM

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

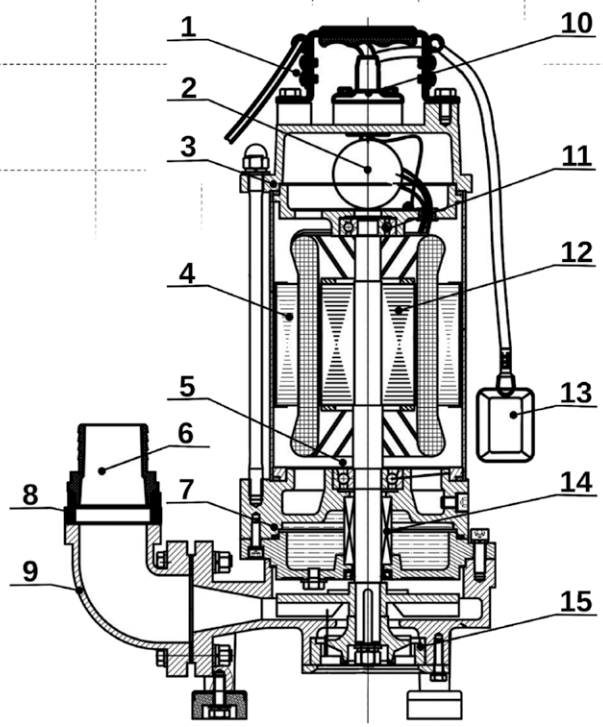


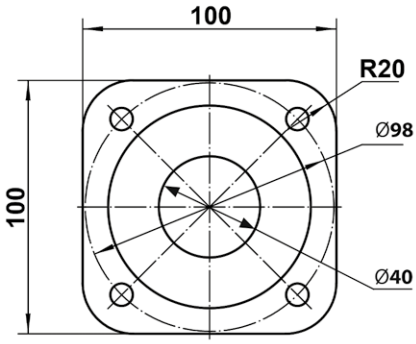
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch))	Dimensions (cm)			Weight (kg)
							Głębokość	Szerokość	Height	
KRAKEN 1800	21	233	1800	230/400	9,5/4,2	2	317	190	513	34
KRAKEN 1800 DF	25	350	1800	230/400	9,5/4,2	2	343	198	500	35

KRAKEN 1800

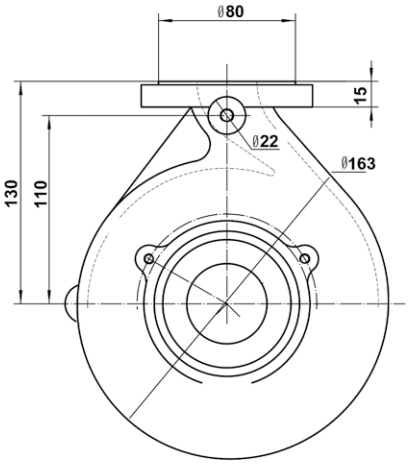












Operating conditions:

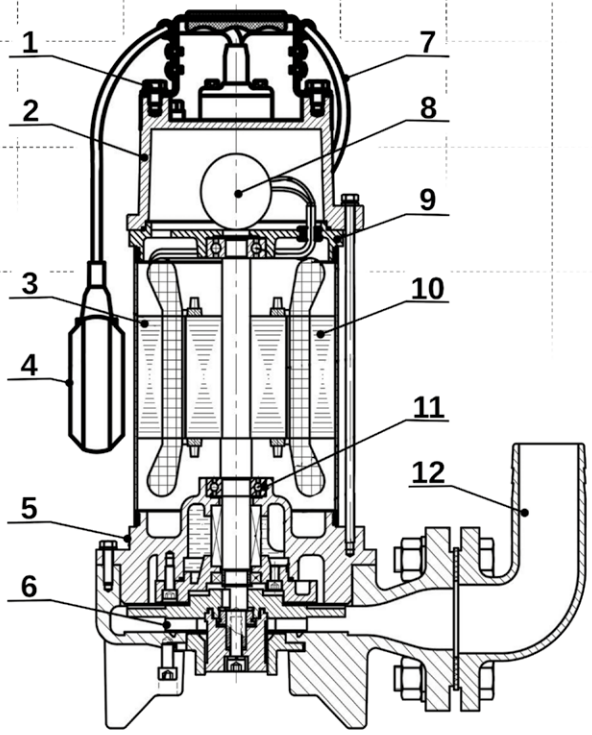
- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 4-10
- Liquid density: 1.2x10^3kg/m^3

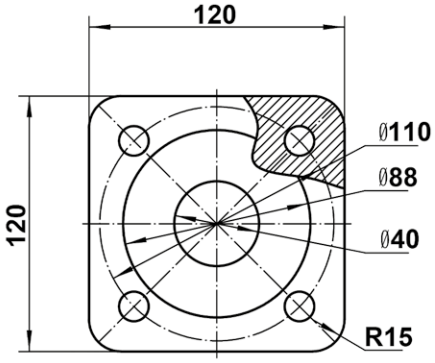
Materials:

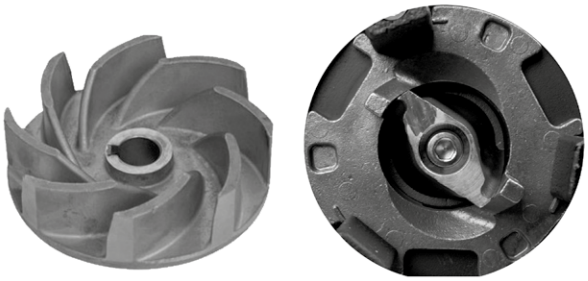
- Motor housing: stainless steel AISI 304
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron
- Mechanical seal: ceramics/graphite/NBR
- Cutting knives: grey cast iron/stainless steel AISI 304
- Rotational speed of the electric motor: 2850RMP
- Cable length: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

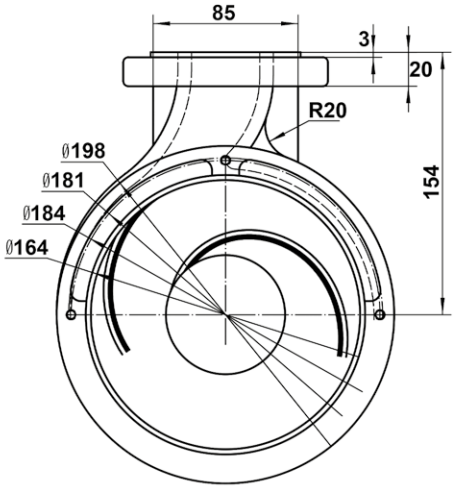
KRAKEN 1800 DF











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
- Liquid density: 1.2x10^3kg/m^3

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
- Cutting knifes: grey cast iron/stainless steel AISI 304
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m

UP 60/80

HIGH-PRESSURE SUBMERSIBLE SEWAGE PUMP WITH CUTTING SYSTEM



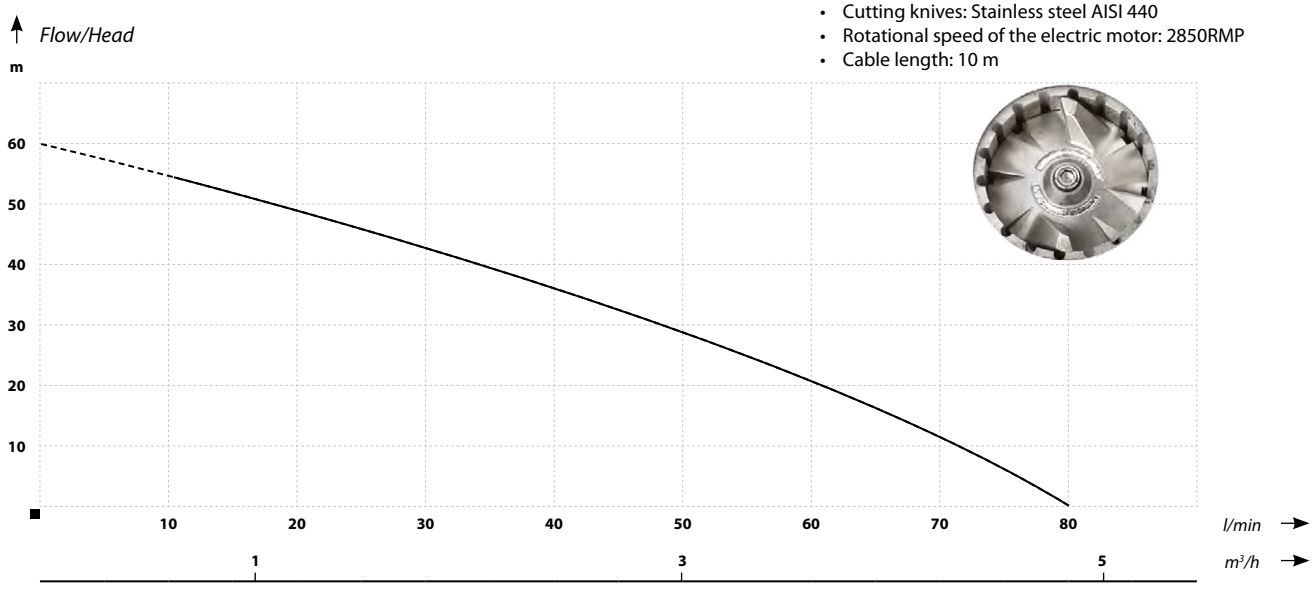


The UP60/80 pumps are equipped with a two-stage hydraulics to increase the maximum pressure. An important feature of KRAKEN 1800 is a multi-channel disk cutting system designed to minimize the risk of clogging. In addition, the outlet is threaded in order to connect a pipeline or fast connection. The pump is supplied with thermal protection mounted in the motor winding.

APPLICATION:
The pump is designed for operating in pressure sewage systems.

Operating conditions:
- Maximum liquid temperature 50°C (60)
- Maximum ambient temperature 40°C
- Thermal protection: yes
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 4-10
- Liquid density: 1.2x103kg/m3

Materials:
- Motor housing: stainless steel AISI 304
- Body: ASTM cast iron
- Shaft and rotor: stainless steel AISI 420
- Impeller: Stainless steel AISI 440
- Mechanical seal: SiC-SiC
- Cutting knives: Stainless steel AISI 440
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch))	Dimensions (mm)		Weight (kg)
							HEIGHT	BASE-PLATE	
UP 60/80	60	80	1500	230	12	1¼	550	250	31,5

UP-H



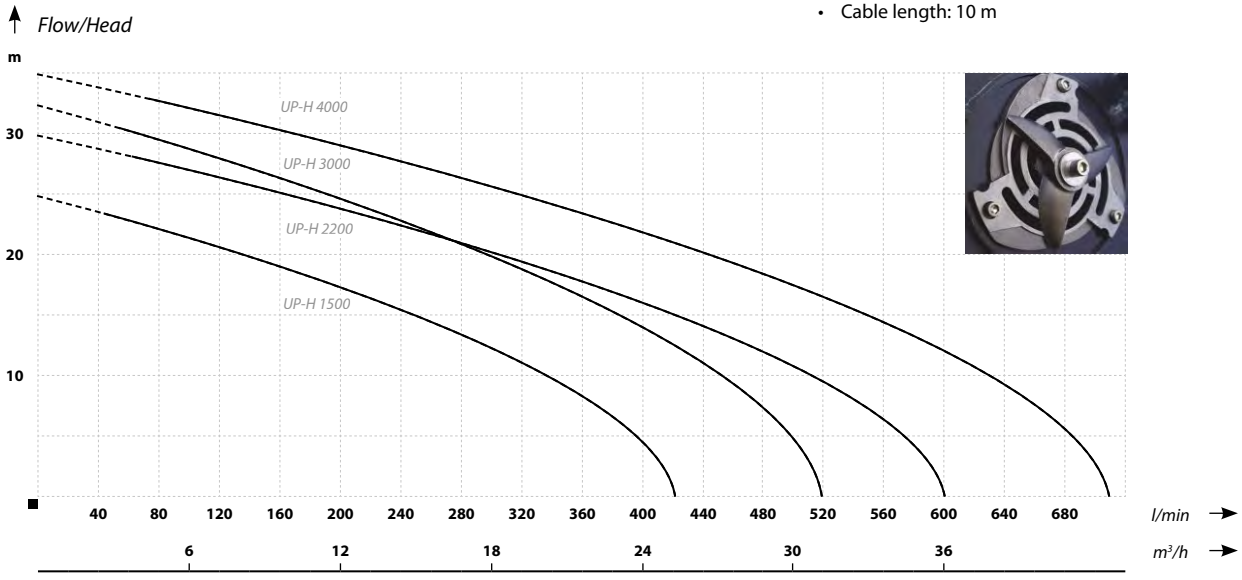


The pumps have an additional chamber in the hydraulic section to increase the maximum pressure generated by the pump. UP-H pumps come with a multi-channel cutting system. In addition, the outlet is threaded in order to connect a pipeline or fast connection. The pumps are available as 3-phase 400V ~ 3 / 50Hz version. The pumps have overload protection on the cable.

APPLICATION:
The pumps are designed to operate in pressure sewage systems, for pumping sewage from domestic waste tanks and draining flooded rooms, houses, garages and premises.
Sewage treatment plants.

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
- Liquid density: 1.2x103kg/m3

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
- Cutting knives: grey cast iron/stainless steel AISI 304
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch))	Dimensions (mm)		Weight (kg)
							BASE-PLATE	HEIGHT	
UP-H 1500	25	420	1,5	230/400	3,5	2	260	520	25
UP-H 2200	32	520	2,2	400	4,7	2½	270	560	31
UP-H 3000	30	600	3,0	400	7,5	2½	385	650	50
UP-H 4000	35	700	4,0	400	11	3	385	650	55

PROFESSIONAL SUBMERSIBLE PUMPS WITH CUTTING SYSTEM

ZWQ









A series of professional submersible pumps with cutting system, designed for customers who need a strong and reliable product in their professional work. The top quality materials used and very high performance makes ZWQ pumps suitable for operation in harsh conditions. These pumps are widely used in sewage pumping stations. Single-phase pumps have a float switch for operation control. All pumps are equipped with a three-channel cutting system integrated with the impeller in order to minimize the risk of clogging. All ZWQ pumps are suitable for installation with a guide rail system. The motors have Class F winding insulation and single-phase versions are additionally equipped with thermal protection mounted in the winding. Flanges for connecting pipes or fast-connection. The pumps are available as single-phase 230V ~/ 50Hz versions with a float switch, and 3-phase 400V ~ 3 / 50Hz version.
The pumps have bearings manufactured by NSK in Japan.

The pumps can be supplied with guide rail systems for installation in pump stations. The guide rail system is sold separately.

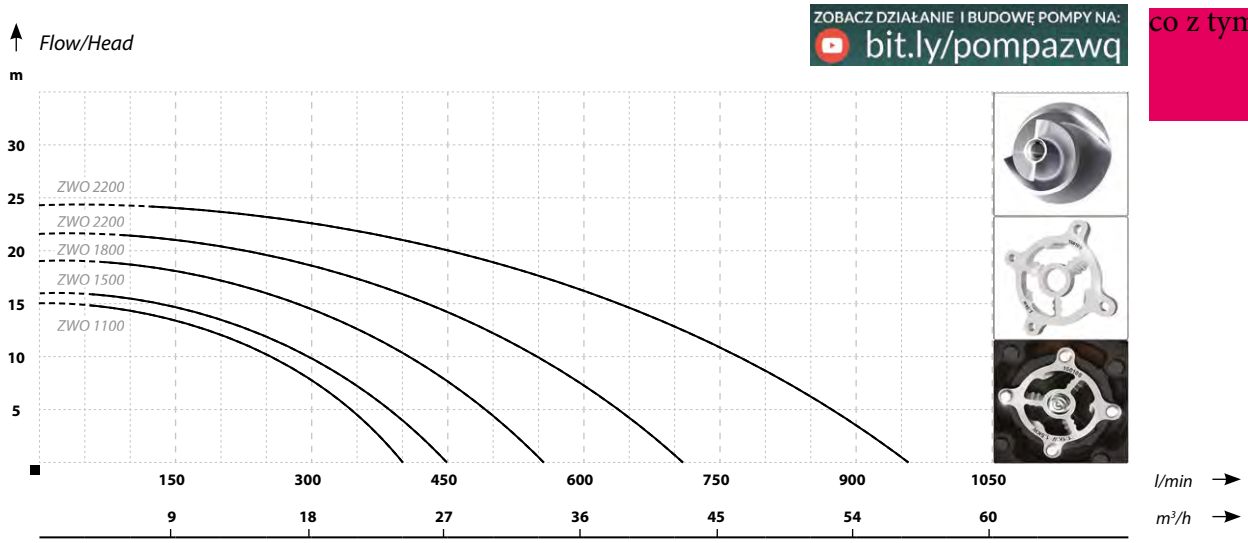
APPLICATION:
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Sewage treatment plants. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

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
- Liquid density: 1.2x103kg/m3

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

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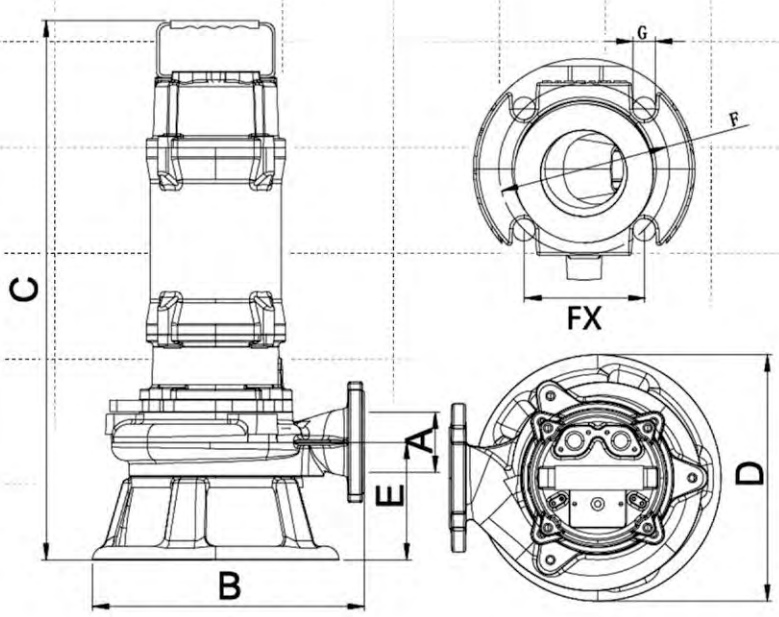


PARAMETERS

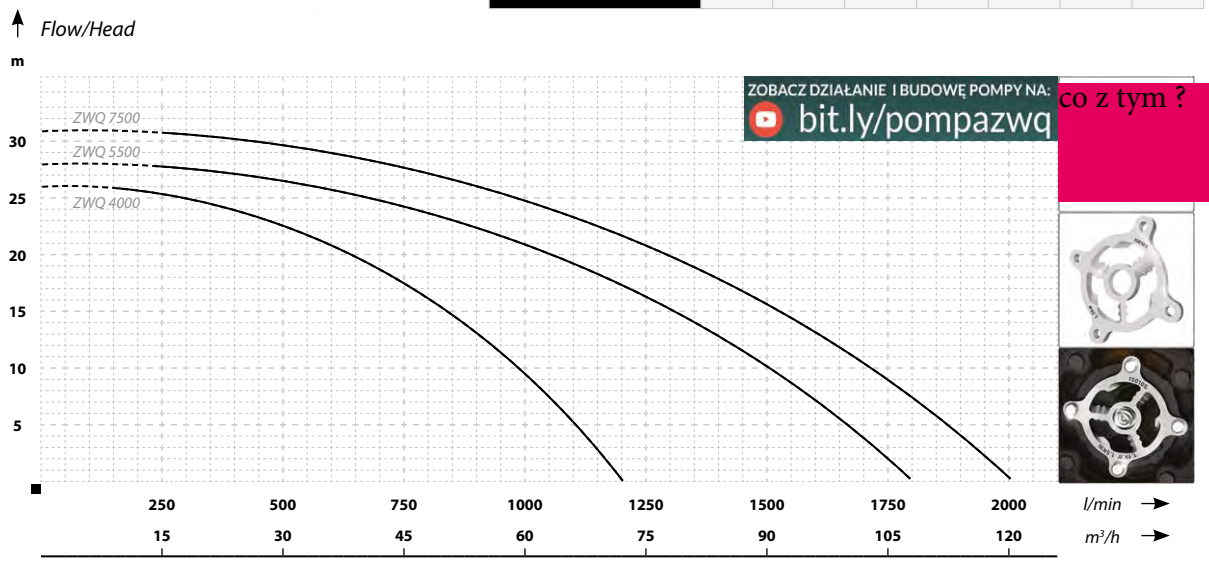
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
ZWQ 1500	15	400	1,1	230	6,5	2	23
ZWQ 1500	16	450	1,5	230/400	8,5/3,8	2	26
ZWQ 1800	18	550	1,8	230/400	8,6/3,9	2½	27
ZWQ 2200	22	700	2,2	400	4,5	2½	38
ZWQ 3000	24	950	3,0	400	6,3	3	49

ZWQ





Name	Dimensions (mm)						
	A	B	C	D	E	F	G
ZWQ 1500	50	250	568	240	117	110	15
ZWQ 1800	65	250	568	240	117	110	15
ZWQ 2200	65	295	585	265	127	130	15
ZWQ 3000	80	280	575	240	123	110	15
ZWQ 4000	80	315	590	265	127	130	15
ZWQ 5500	100	325	650	268	131	160	18
ZWQ 7500	100	335	660	285	137	160	18



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PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
ZWQ 4000	26	1200	4,0	400	8,5	3	54
ZWQ 5500	28	1800	5,5	400	11	4	70
ZWQ 7500	31	2000	7,5	400	14,8	4	77

PROFESSIONAL SUBMERSIBLE PUMPS WITH MIXING SYSTEM

MWQ

SUBMERSIBLE SEWAGE PUMPS WITH AGITATOR (MIXER)







A series of professional submersible pumps with mixing system, designed for customers who need a strong and reliable product in their professional work. These pumps are widely used in sewage pumping stations. MWQ pumps are designed for pumping raw sewage from pumping stations where dense sludge may be deposited. The pumps have a special additional external rotor (agitator) for mixing and splitting heavy sludge. Materials used guarantee long-term and faultless operation. Motor shaft is made of stainless steel. Motor chamber is sealed with a double SiC/ SiC mechanical seal. The pump uses a multi-channel impeller for pumping large diameter impurities. All MWQ pumps are suitable for installation with a guide rail system. The motors have Class F winding insulation and single-phase versions are additionally equipped with thermal protection mounted in the winding. The pumps have bearings manufactured by NSK in Japan. Flanges for connecting pipes or fast-connection. The pumps are available as single-phase 230V ~/ 50Hz versions with a float switch, and 3-phase 400V ~ 3 / 50Hz version. The pumps can be supplied with guide rail systems for installation in pump stations. The guide rail system is sold separately.

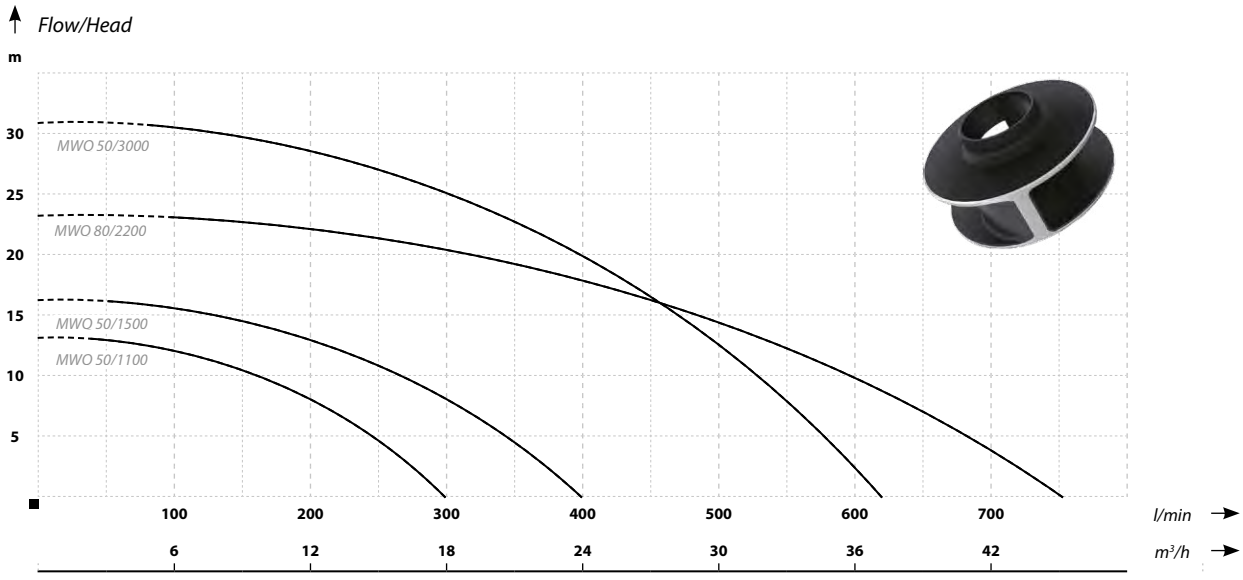
APPLICATION:
Pumping sewage from domestic septic tanks and draining flooded rooms, houses, garages and premises. Sewage treatment plants. Pumping rainwater and surface water from ponds, lakes and rivers, supplying water to waterholes.

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: 5-10
- Liquid density: 1.2x10^3kg/m^3

Materials:

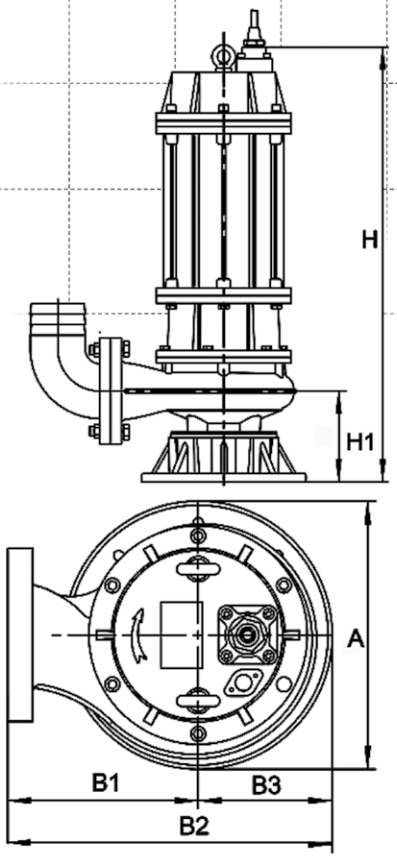
- Motor housing: grey cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Agitator: Grey cast iron
- Bearings: NSK
- Mechanical seal: Double, ceramics/graphite/ NBR
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m

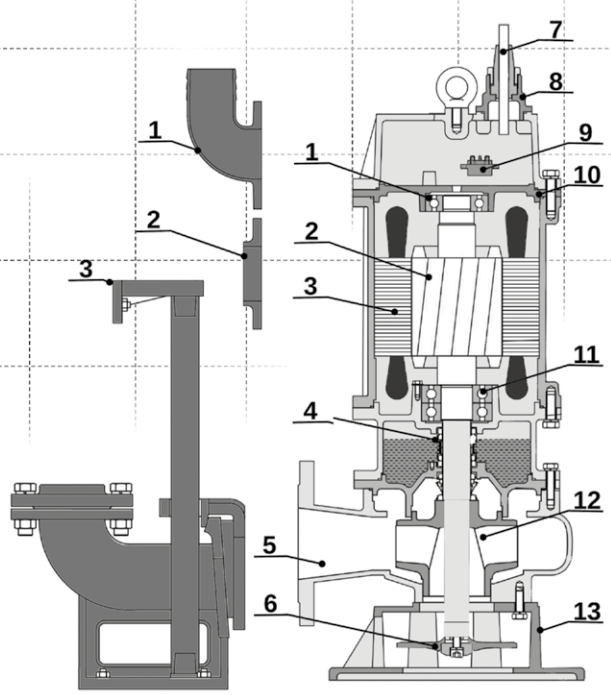


PARAMETERS

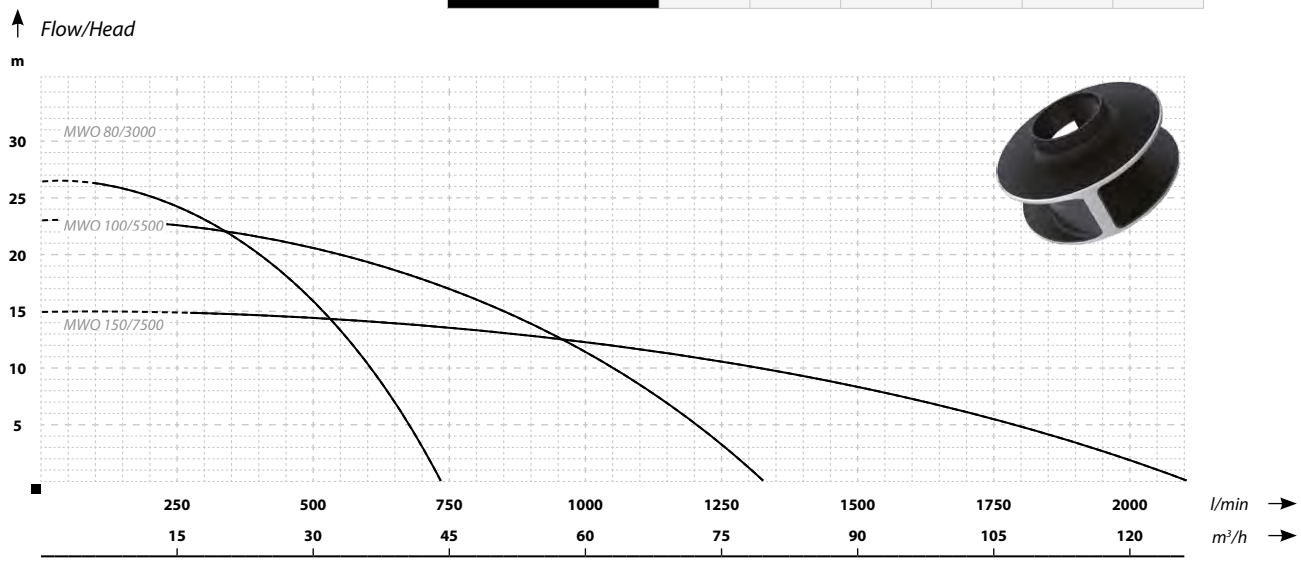
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Voltage (A)	Inlet/outlet DN	Agitator working range (mm)	Weight (kg)
MWQ 50/1100	13	300	1,1	230/400	6,5/2,2	50	1200	23
MWQ 50/1500	16	400	1,5	230/400	7,5/2,5	50	1200	27
MWQ 80/2200	22,5	750	2,2	400	4,5	80	1600	37
MWQ 50/3000	31	620	3,0	400	6,1	50	1200	43

MWQ





Name	Dimensions (mm)					
	H	H1	A	B1	B2	B3
MWQ 50/1100	471	104	187	137	230	190
MWQ 50/1500	491	117	208	143	238	230
MWQ 80/2200	551/544	128	230	167	278	230
MWQ 50/3000	556/559	120	215	151	258	230
MWQ 80/3000	559/562	122	220	152	260	230
MWQ 100/5500	660	146	258	180	310	260
MWQ 150/7500	730	175	300	198	330	320



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Voltage (A)	Inlet/outlet DN	Agitator working range (mm)	Weight (kg)
MWQ 80/3000	26,5	740	3,0	400	6,1	80	1600	43
MWQ 100/5500	23	1320	5,5	400	9,5	100	2000	73
MWQ 150/7500	15	2100	7,5	400	15,4	150	2500	105

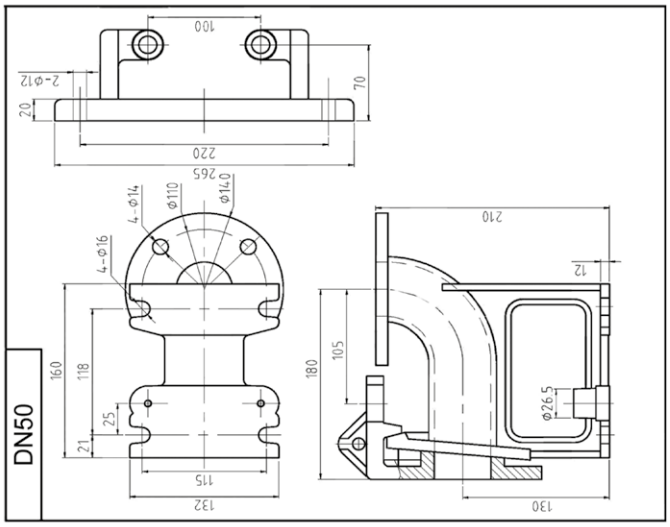
GUIDE RAIL SYSTEM

It is a device for mounting submersible pumps in sewage treatment plants on a so-called "rail". In order to mount the pump, it must be equipped with a horizontal flange.

The set includes:
1. Adapter
2. Guide rail saddle
3. Upper guide rail bracket

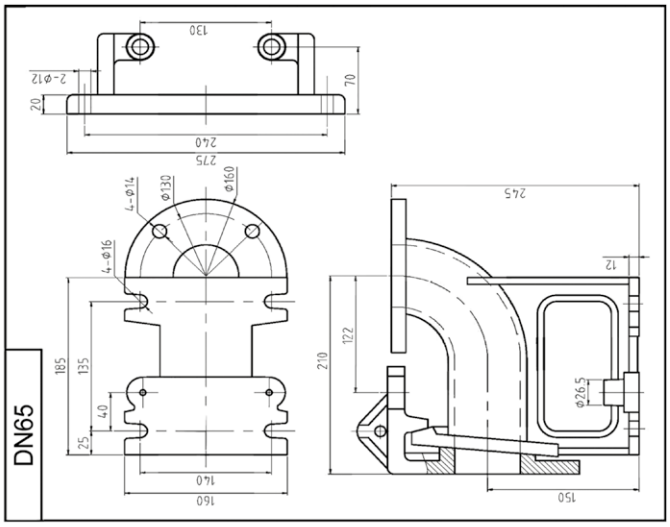
Using guide rail system connection - the lifting system allows to remove the pump without disassembling the entire pipeline.
It is particularly important in case of heavy pumps, such as ZWQ or MWQ.

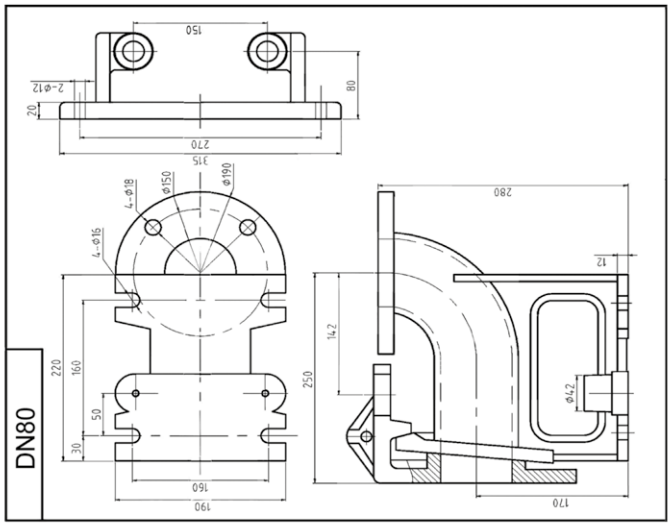
Suitable for:
- ZWQ
- MWQ
- Kraken 1800 DF

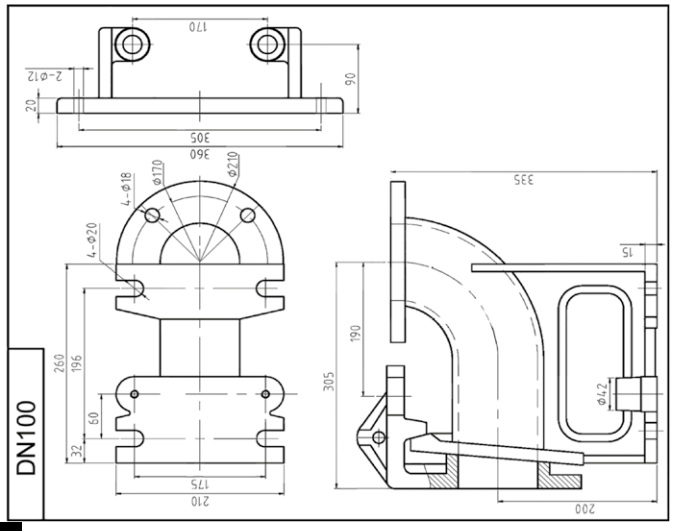


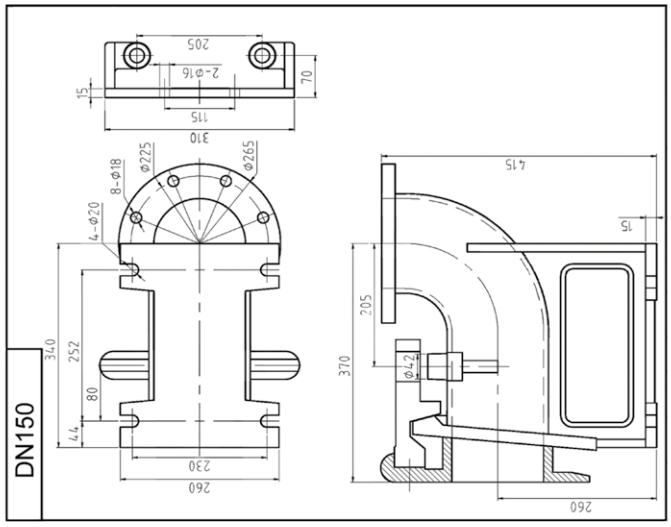


Guide rail system









KBFU

The KBFU submersible pumps are intended for professional drainage works. Used mainly in civil engineering for draining excavations. The pumps have a durable and solid design. They are suitable for pumping water with sand. The pumps have a cooling jacket in the housing so they do not have to be fully submerged. The top quality materials used and very high performance makes KBFU pumps suitable for operation in harsh environment, such as mines. Double mechanical seal is used to guarantee tightness. 0.45-2.2 kW single-phase pumps are equipped with thermal protection mounted in the winding. The 50-KBFU-0.45 pump has a float switch for automatic pump control.
The 25-KBFU-0.45 pump can pump water down to 3 mm level. KBFU pumps have motors with Class F winding insulation and bearings manufactured by NSK in Japan.

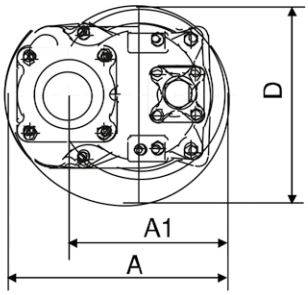
APPLICATION:
Draining flooded rooms, houses, garages and premises. Irrigation. Draining construction sites. Pumping rainwater and surface water from ponds, lakes and rivers. Civil engineering. Mines and quarries. Anywhere there is a risk of high sand content in the pumped water.



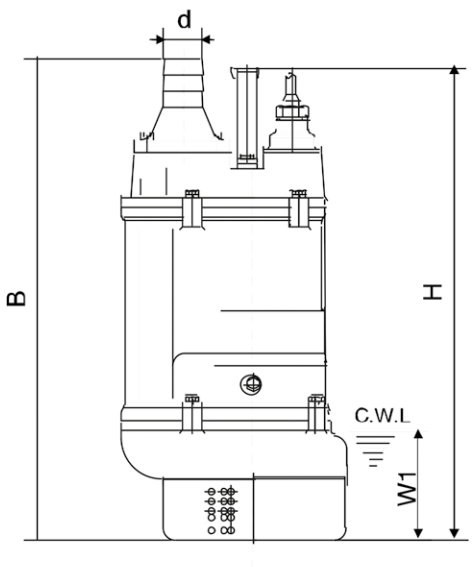
Name	Dimensions (mm)						
	d	A	A1	B	D	H	W1
25-KBFU-0,45	25	230		340	220	340	60
50-KBFU-0,45	50	230		360	220	340	60
50-KBFU-0,75	50	273	225	508	220	488	150
50-KBFU-1,5	50	273	225	533	220	513	150
50-KBFU-2,2	50	273	225	558	220	538	150
80-KBFU-1,5	80	235	173	535	216	505	120
80-KBFU-2,2	50	235	173	535	216	505	120
100-KBFU-3,7	100	283	208	642	252	629	150
80-KBFU-5,5	80	283	208	671	252	590	150
150-KBFU-7,5	150	330	240	790	314	676	190

Operating conditions:
- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Thermal protection: 230V-yes/400V-no
- Class F Insulation
- Operating mode - continuous
- Protection - IP68
- Water PH: 5-9
- Liquid density: 1.2x10^3kg/m^3

Materials:
- Motor housing: alloy/grey cast iron
- Body: grey cast iron
- Shaft and rotor: stainless steel AISI 304
- Impeller: grey cast iron with wear-resistant coating / chromium alloy
- Bearings: NSK
- Mechanical seal:
- ≤ 2.2kW: Sic-Sic / Carbon-Sic
- ≥ 3.7kW: Sic-Sic / Sic-Sic
- Rotational speed of the electric motor: 2850RMP
- Cable length: 10 m

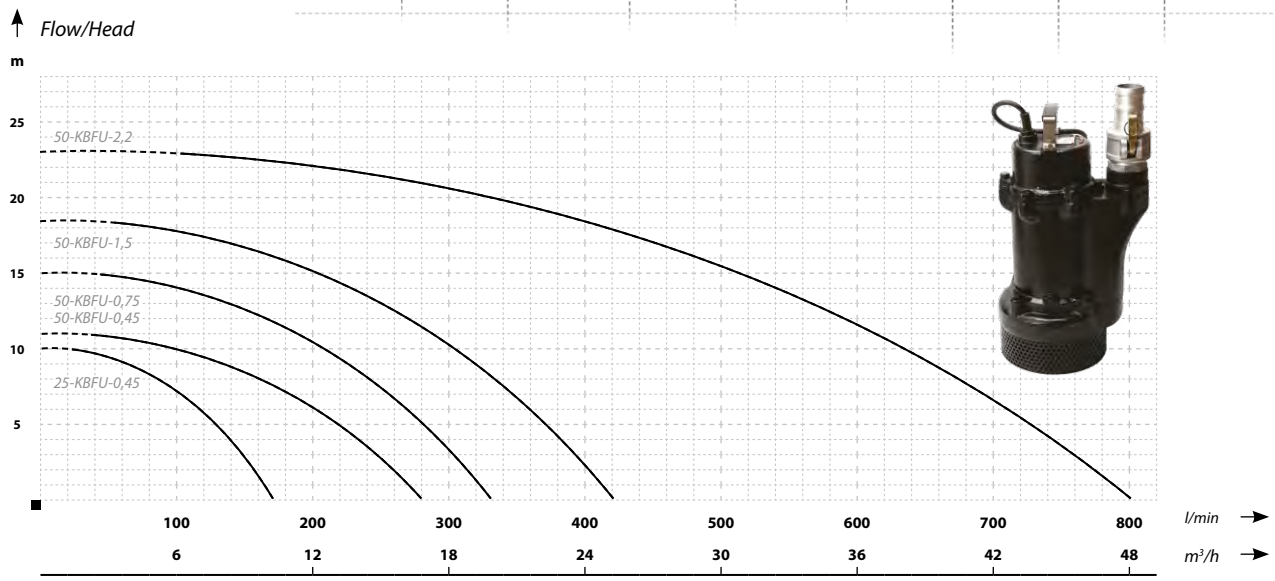






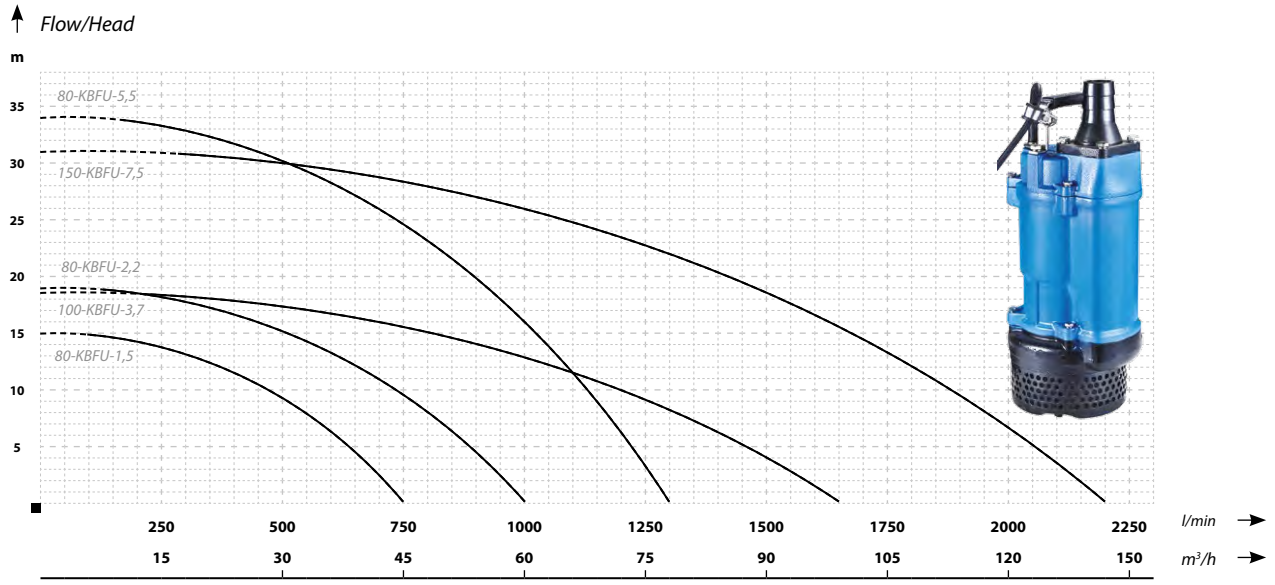


KBFU



PARAMETERS

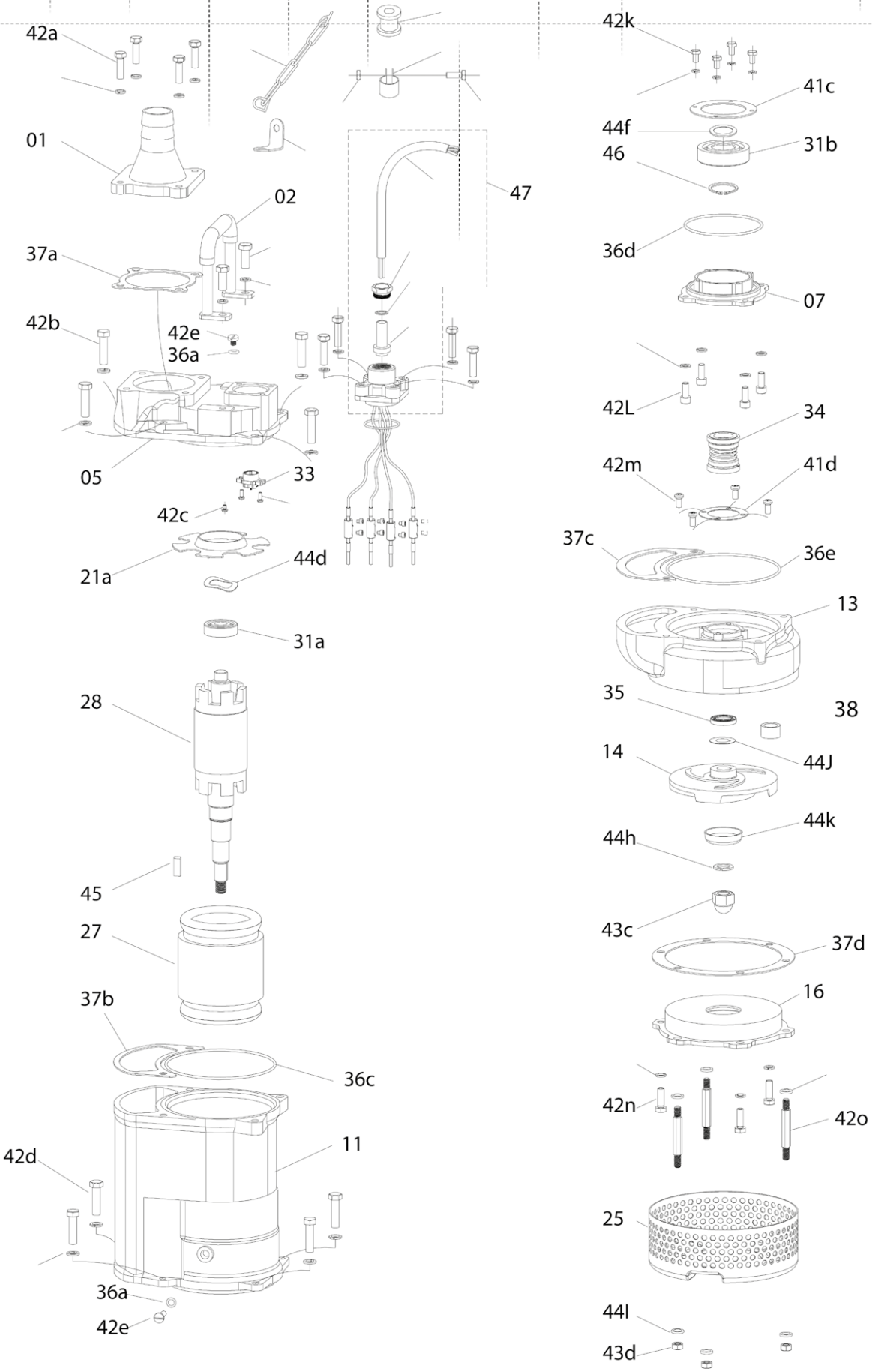
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
25-KBFU-0,45	10	170	0,45	230	2,3	1	11,8
50-KBFU-0,45	11	280	0,45	230	2,3	2	12
50-KBFU-0,75	15	330	0,75	230	5,8	2	39
50-KBFU-1,5	18,5	420	1,5	230	11,4	2	44
50-KBFU-2,2	23	800	2,2	230	14	2	46



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Weight (kg)
80-KBFU-1,5	15	750	1,5	400	3,5	3	37
80-KBFU-2,2	19	1000	2,2	400	5,0	3	39
100-KBFU-3,7	18,5	1650	3,7	400	7,7	4	67
80-KBFU-5,5	34	1300	5,5	400	11,4	3	84
150-KBFU-7,5	31	2200	7,5	400	15	6	114

KBFU


42a
01
02
37a
42b
42e
36a
05
33
42c
21a
44d
31a
28
45
27
37b
36c
42d
11
36a
42e
47
42k
41c
44f
31b
46
36d
07
42L
34
42m
41d
37c
36e
13
35
38
14
44J
44k
44h
43c
37d
16
42n
42o
25
44l
43d

AREAT 1

Hydrotechnical device - Aerator is mainly used in professional aeration applications for marine and freshwater aquaculture. It creates mixtures with a high percentage of dissolved oxygen and has a large area of oxygen aeration, which improves water quality on agriculture farms and supports growth. The device consists of a motor with impeller and a triangular baseplate.

Areat 1 is designed for clean water from ponds, lakes and other bodies of water without the content of abrasive solids.

Description:

- Advanced technology: a unique air intake chamber and a star-shaped impeller design provide high oxidation capacity and accurate gas and water mixing. Compared to other devices, the amount of oxygen supplied is up to 30% higher, which translates into lower farming costs.
- Many small air bubbles are created on the contact surface of the impeller and the surrounding water. A rotating impeller creates water flow extending horizontally at a certain speed and flowing
- upwards, stirring the water below and thus increasing the range of oxygenation. This solution eliminates a dead angle effect creating a large gas-water intersection area, which increases the oxygen dissolution.
- A large number of small air bubbles increases the contact surface of water and gas as well as the rate of oxygen dissolution, and as a result, water is more effectively saturated with dissolved oxygen and many harmful substances are removed. Improving water quality directly affects the health of cultured organisms and accelerates the growth rate.
- The equipment is compact, flexible, easy to install and use, which saves installation time and costs.

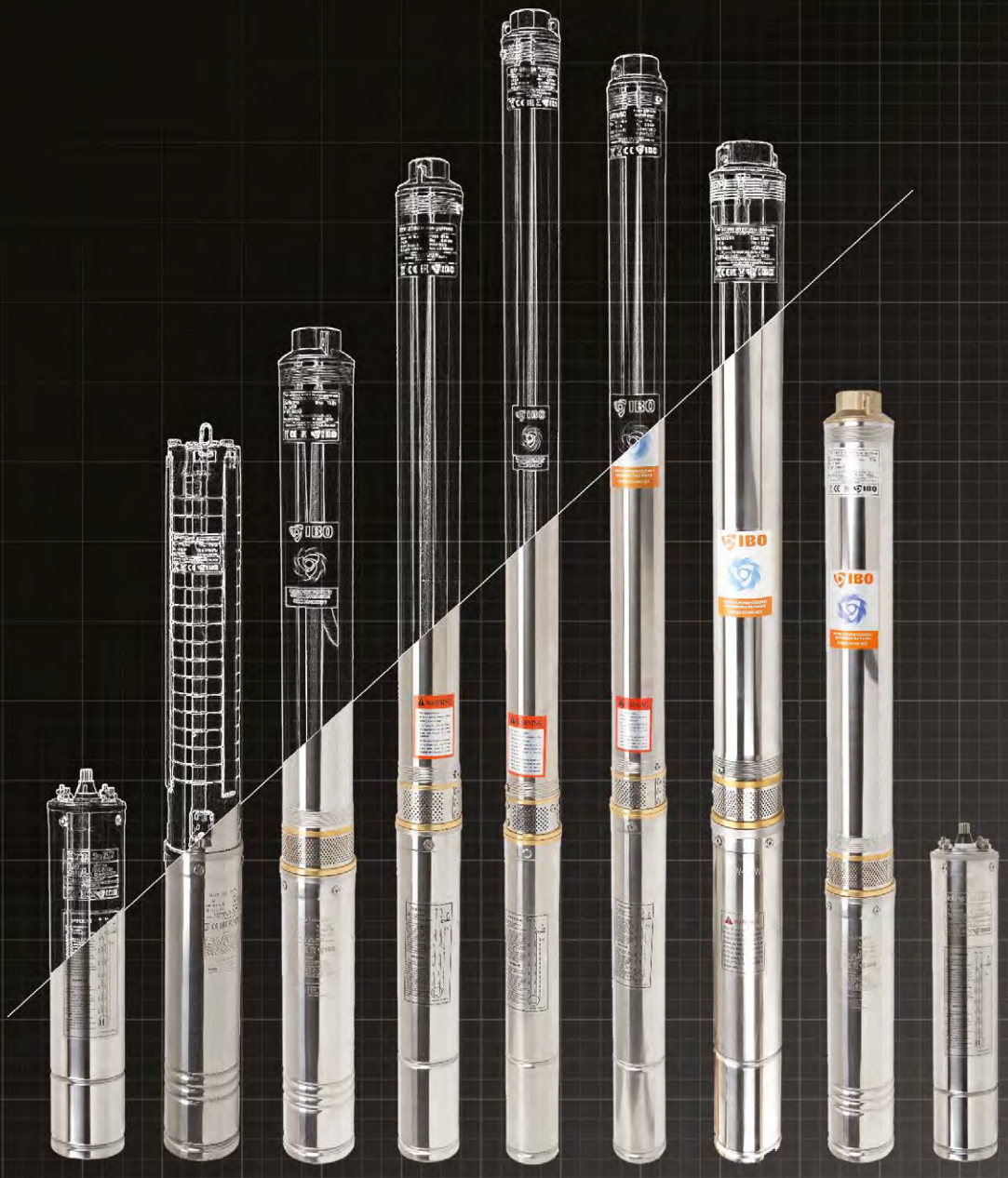




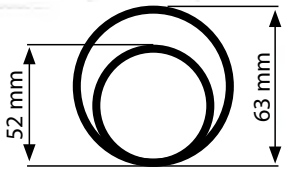
PARAMETERS

Model	Voltage (V)	Power (kW)	Aeration (m^3/h)	Oxygenation (kg (O_2) /h)	Max. temperature (°C)	Immersion depth (m)	Active operating area (m^2)
AREAT 1	400	1,5	10 - 320	2,5	35	3 - 5	2000 - 4000

DEEP WELL PUMPS
TIEFBRUNNENPUMPEN
PONORNÁ ČERPADLA
POMPE SUBMERSIBILE
ГЛУБИННЫЕ НАСОСЫ



2" STING



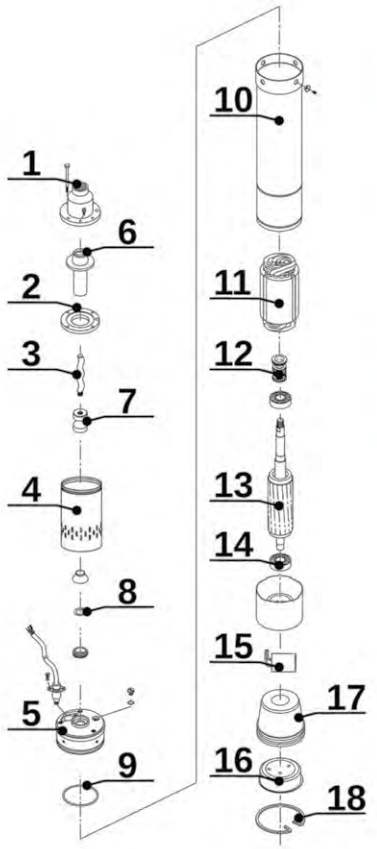


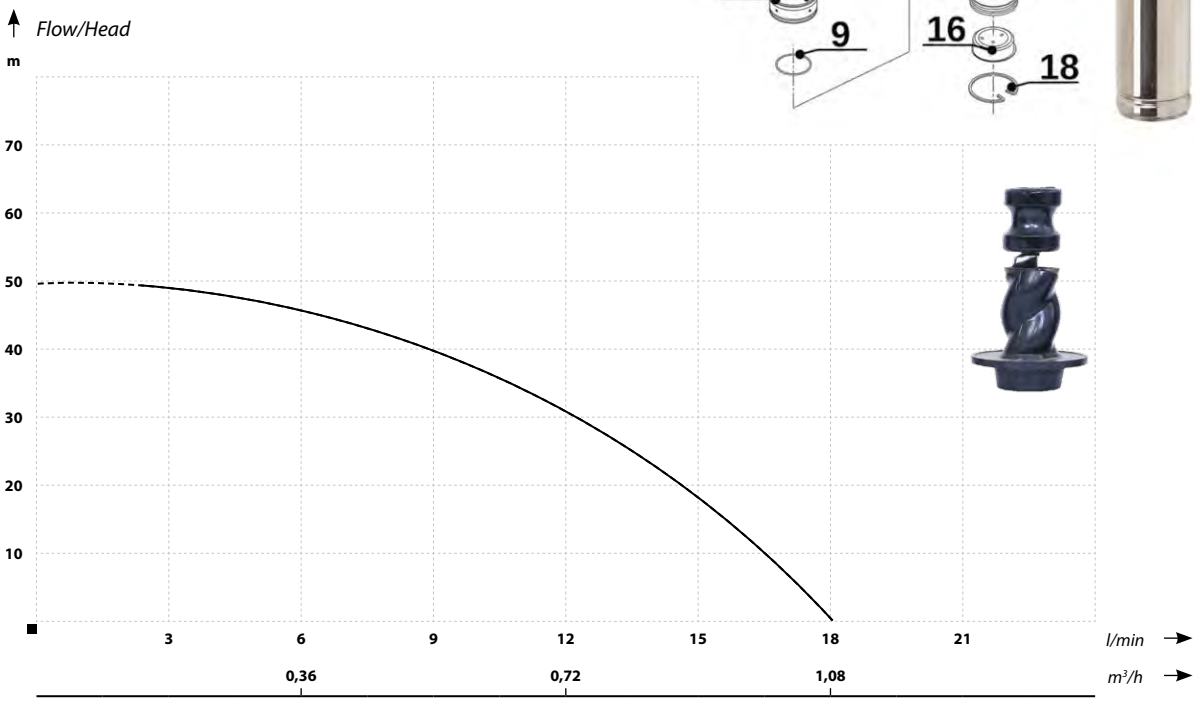
2 "STING is the first and at the moment the only IBO 2" deep well displacement pump. The diameter of the pump does not exceed 53 mm and the hydraulic section consists of the stator, rotor and clutch. The pump is mainly made of stainless steel. The pump is equipped with a 14 m cable terminated with a plug and the capacitor is built into the motor so that pump is ready for installation immediately after unpacking. The pump is equipped with thermal protection mounted in the motor winding.

APPLICATION:
Supply of water from deep wells to small single-family houses and recreational plots. The pump can be used by companies providing hydro-geological services.

Operating conditions:
- Maximum liquid temperature 40°C Maximum ambient temperature 40°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Screw: stainless steel AISI 304
- Stator: NBR
- Motor: oil cooling
- Mechanical seal: ceramics/Sic
- 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)
2"STING	50	18	370	230	1,8	½	52/690	11

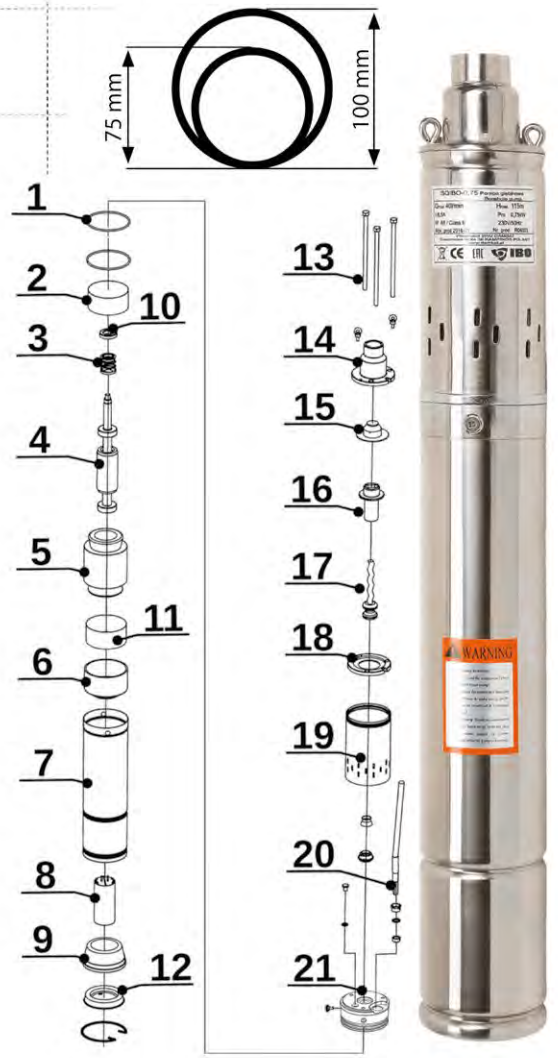
3"SQIBO / SCR

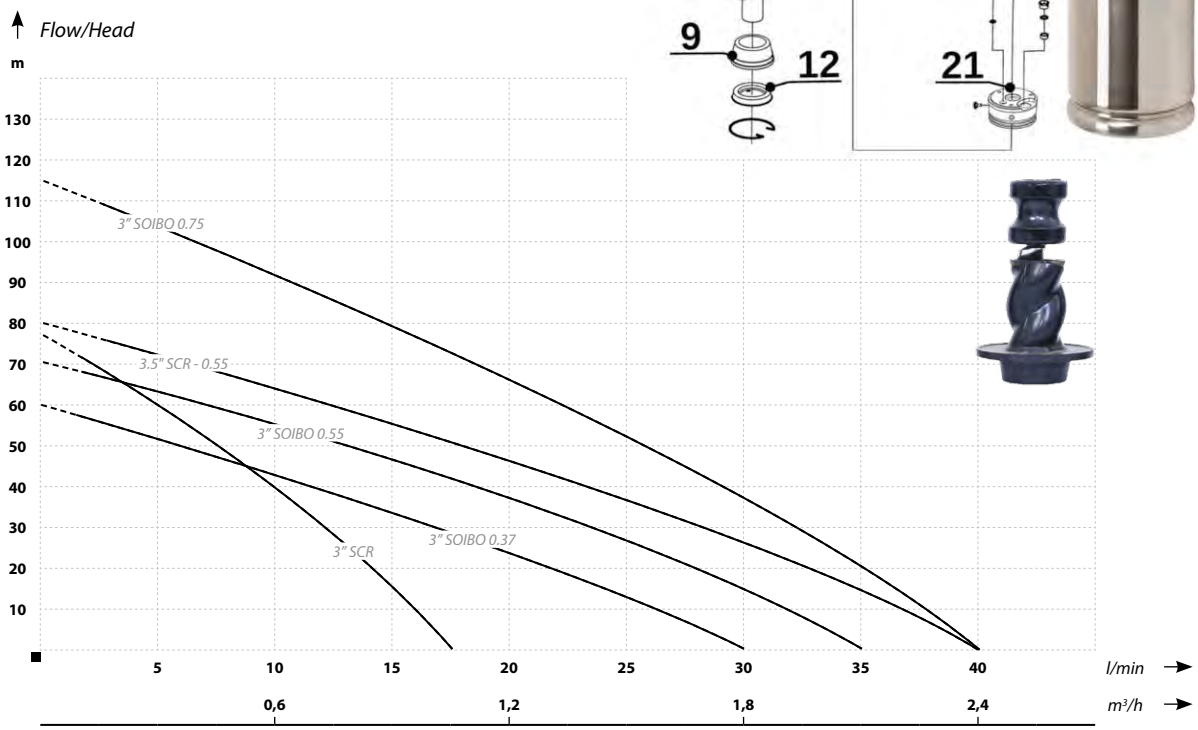
75mm deep well displacement pumps (SQIBO/3"SCR). The pump is mainly made of stainless steel, e.g. housing, bolts, inlet/outlet and rotor. Depending on the customer's requirements, the pumps are equipped with power cables of varying lengths terminated with a plug.
Due to the capacitor built into the motor, the pump is ready for installation immediately after unpacking. The pump is equipped with thermal protection mounted in the motor winding. SQIBO and SCR pumps are among the most popular screw pumps available on the Polish market. The pumps are recognized by customers for their robust design and attractive price.

APPLICATION:
Supply of water to single-family houses and holiday houses.

Operating conditions:
- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

Materials:
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Screw: stainless steel AISI 304
- Stator: NBR
- Motor: oil cooling
- Mechanical seal: ceramics/Sic
- Rotational speed of the electric motor: 2850RMP





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)
3" SCR	77	17	250	230	2,5	¾	14	75/550	10
3" SQIBO 0,37	60	30	370	230	3,4	1	15	75/580	7,5
3" SQIBO 0,55	70	35	550	230	4	1	15/20	75/610	9
3" SQIBO 0,75	115	40	750	230	6,5	1	15/25	75/650	10,5
3,5" SCR - 0,55	80	40	550	230	5,2	1	14	88/600	11

GSK 4-16 / GSK 6-16



Top quality 4"and 6" deep well displacement pumps. The GSK pumps are designed for pumping clean cold water from own intakes. In addition, the 1" GSK 6-16 pump can also be used in ring wells due to its water-cooled engine. 1" GSK 4 - 16 pumps are available with IBO 400 V ~ 3/50 Hz three-phase motors with 20 m stock cable and with IBO ITALY 400 V ~ 3/50 Hz motors.

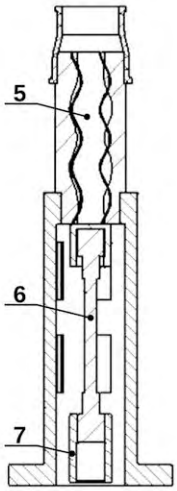
APPLICATION:
Supply of water to single-family houses and farms from deep well intakes. The pump can be used for irrigating gardens.

Operating conditions:
- Maximum liquid temperature 40°C
- Maximum ambient temperature 40°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

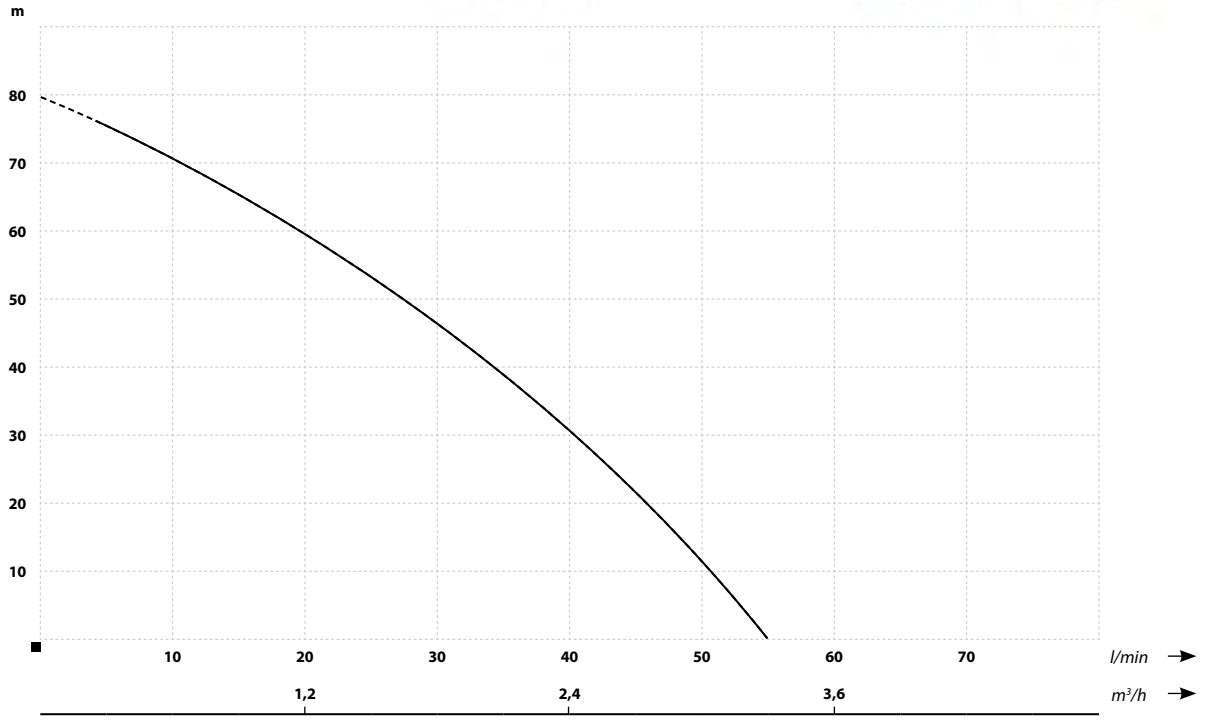
Materials:
- Screw: stainless steel AISI 304
- Stator:

NBR Motor: 6"
GSK:
- Shaft and rotor: stainless steel AISI 304
- Motor: water cooling
- Mechanical seal: ceramics/Sic 4"

GSK:
- Housing: Stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Motor: oil cooling
- Mechanical seal: ceramics/Sic
- Rotational speed of the electric motor: 2850RMP



Flow/Head



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
GSK 4-16	80	54	1100	400	4,8	1	98/750	15,5
GSK 6-16	80	54	1100	400	3,5	1	142/670	20,6

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

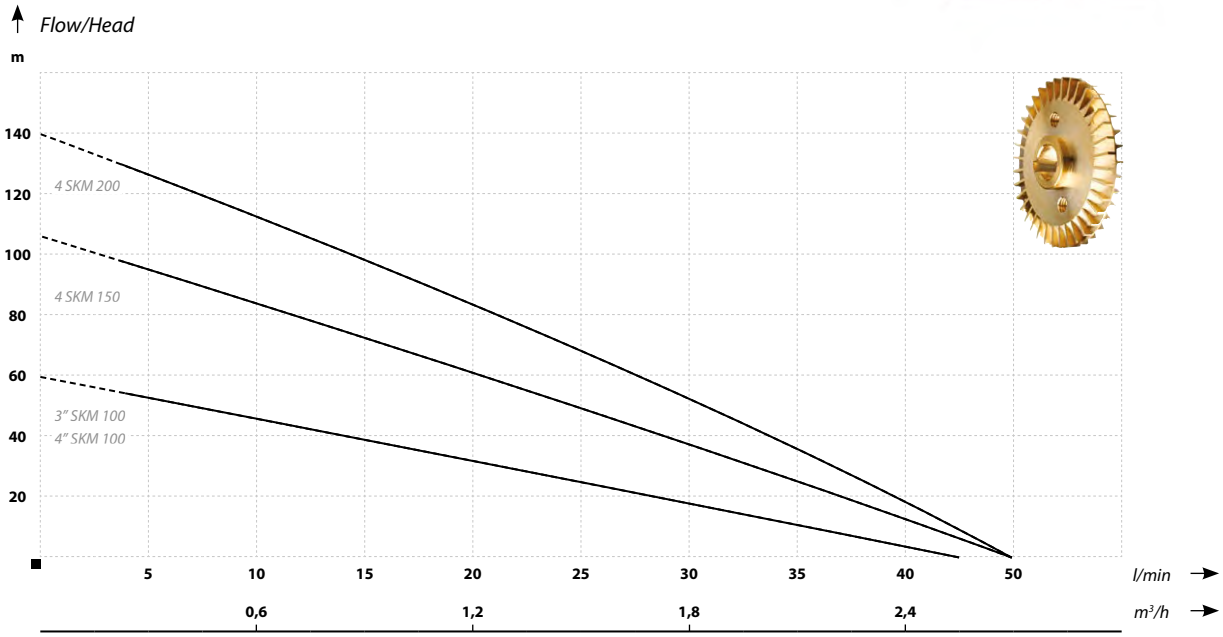
Depending on the version, the 4"SKM pumps have thermal protection mounted in the motor winding or in the control box. The pumps are available as single-phase 230 V ~ /50 Hz versions - 4 SKM, and 3-phase
400 V ~ 3/50 Hz versions - 4 SKT.

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.

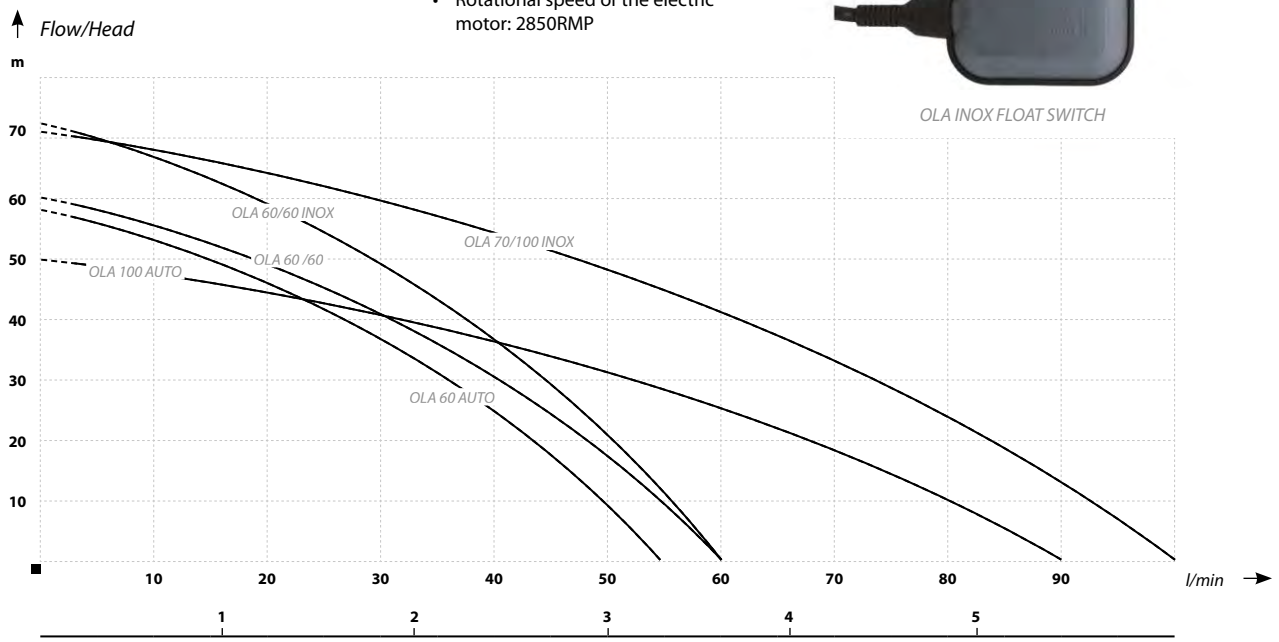
APPLICATION:
Pumping water from ring wells, deep water wells, lakes and rivers. Supply of utility (tap) water to holiday houses and single-family houses. Irrigating gardens.

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 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" 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.

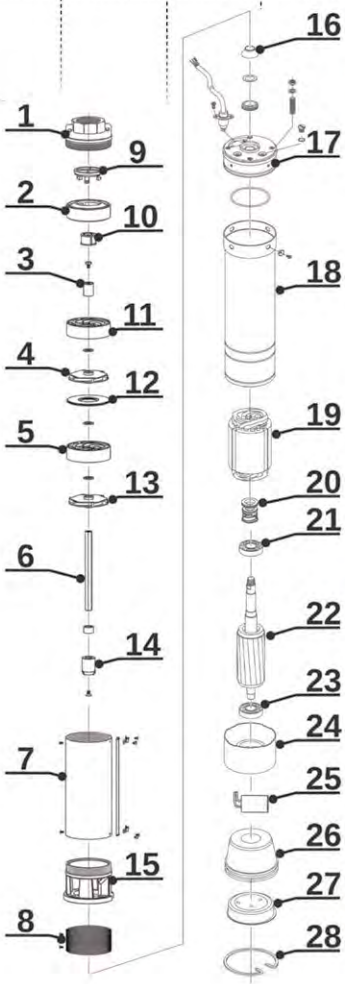
APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating small gardens.

Operating conditions:

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

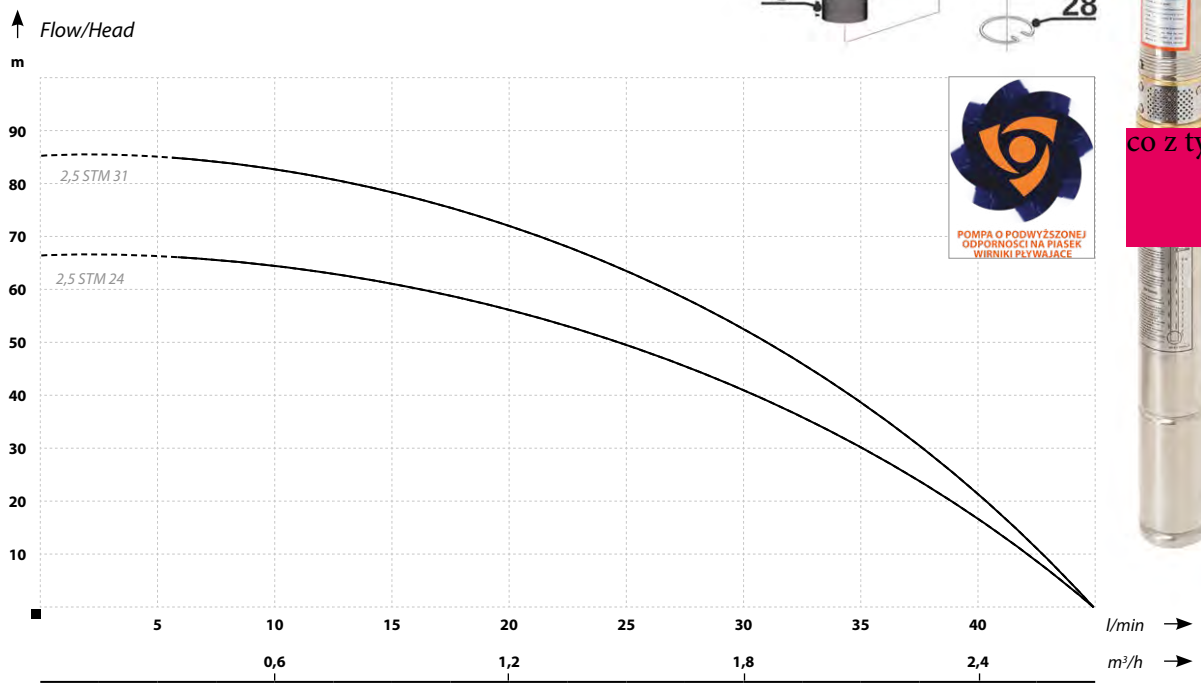
Materials:

- 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





co z tym ?



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" Ti

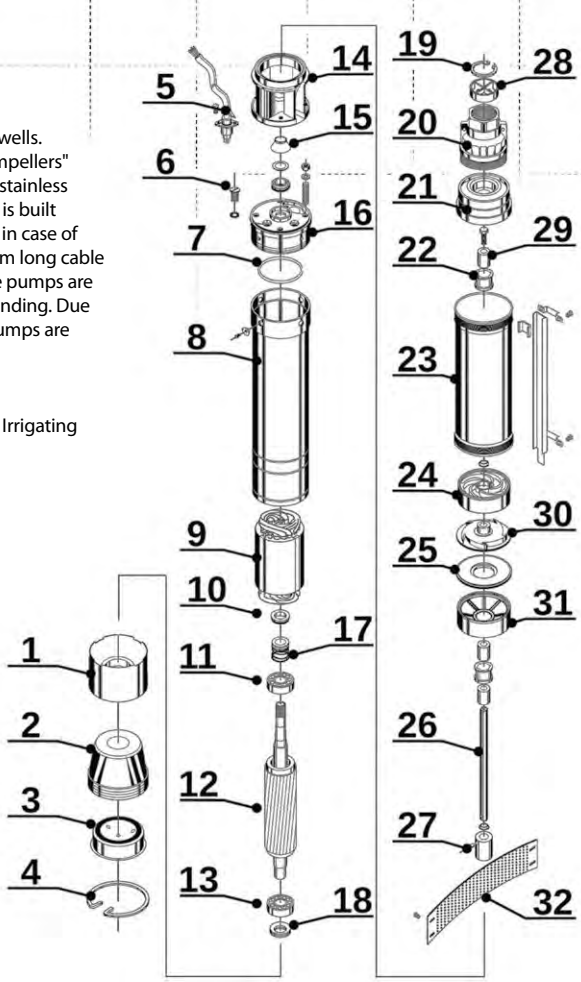
INCREASED RESISTANCE TO SAND

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: brass, AISI 304 stainless steel, and high quality plastic 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. Due to their reliable operation and high performance, the 3"Ti pumps are among the most often installed 3" pumps in Poland.

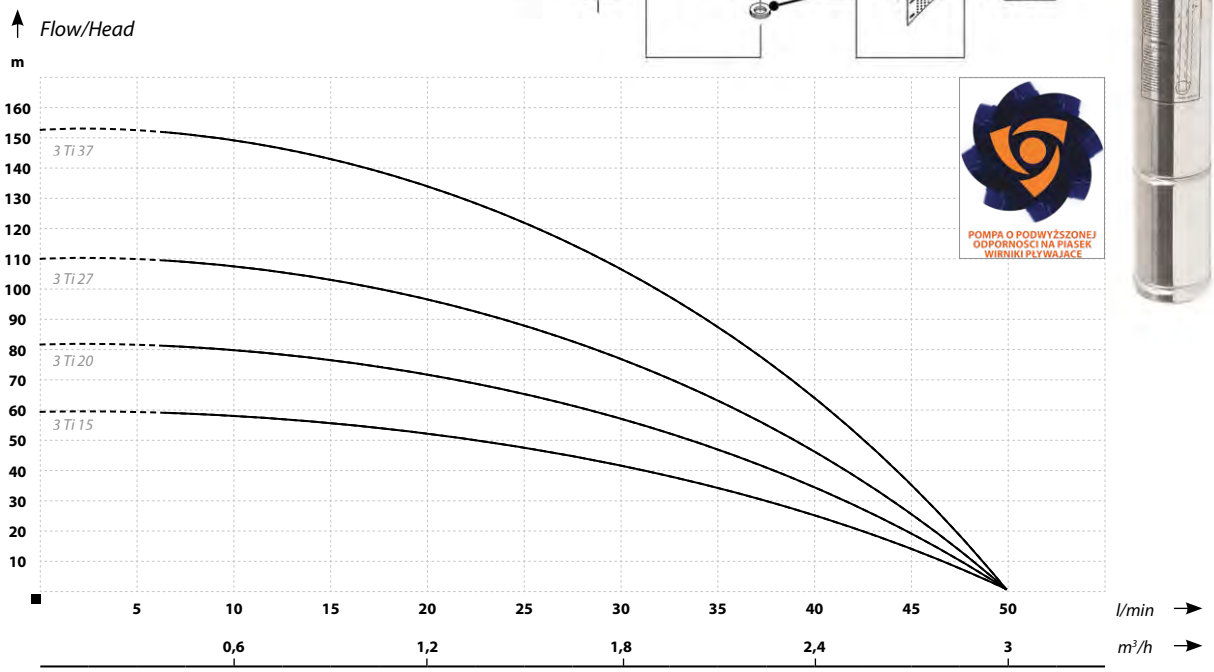
APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating gardens.

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

Materials:
- 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 Ti 15	60	50	370	230	3,2	1	74/1035	10
3 Ti 20	82	50	550	230	4,2	1	74/1210	12
3 Ti 27	110	50	750	230	5,2	1	74/1470	14
3 Ti 37	152	50	1100	230	6,7	1	74/1810	18

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.

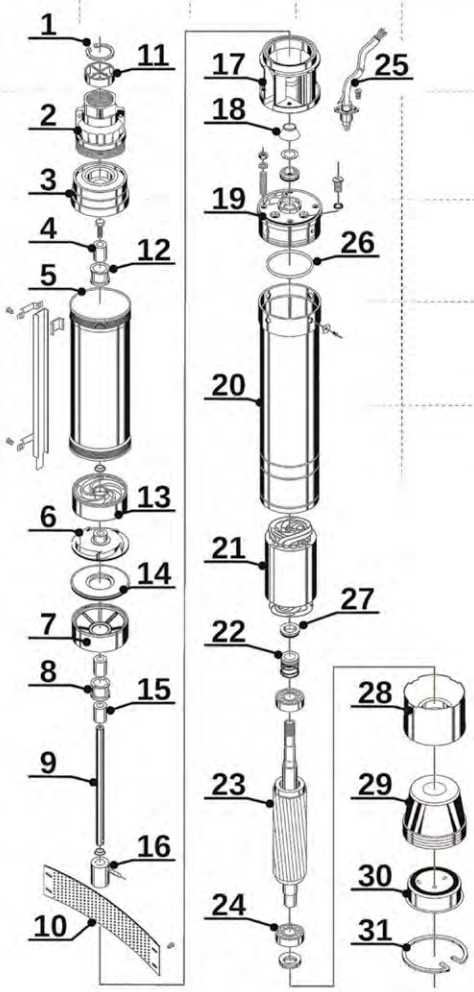
APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating gardens. Drainage/dewatering.

Operating conditions:

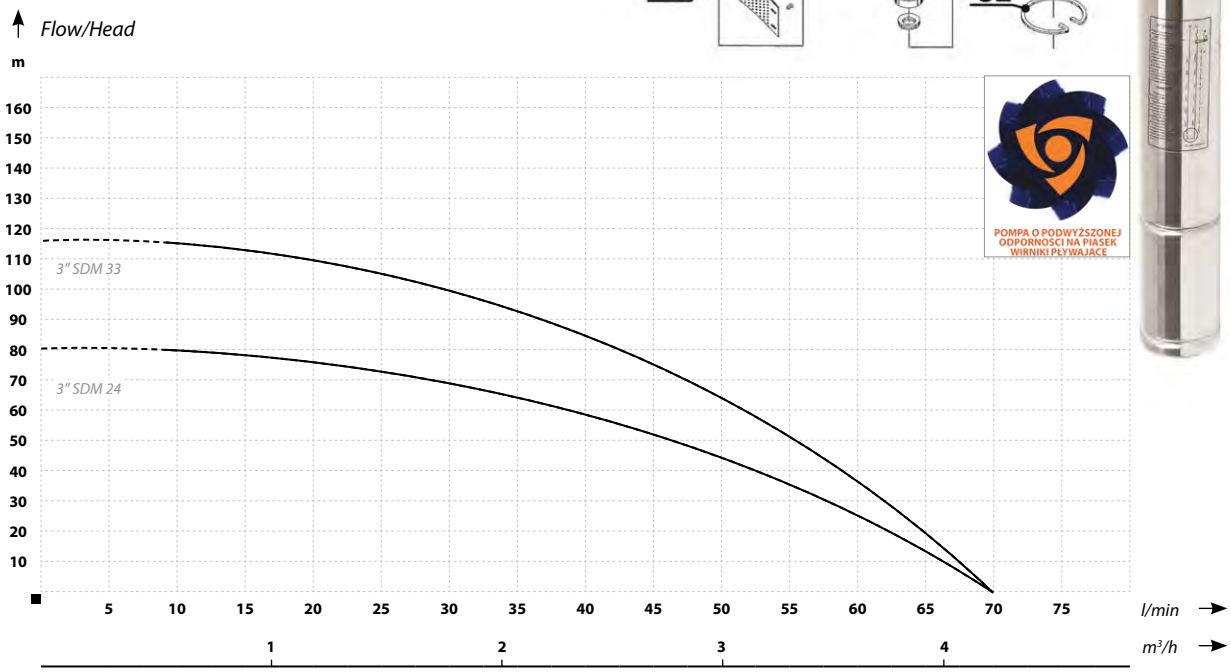
- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B Insulation
- Operating mode - continuous
- Protection - IP68

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

3" STM

INCREASED RESISTANCE TO SAND

75 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 equipped with thermal protection mounted in the motor winding. The pumps are available with 1.5 m long cable section or 20 m long stock cable terminated with a plug.

The main advantage of the 3STM pumps is their up to 100l/min. flow, exceptionally high as for 3" pumps.

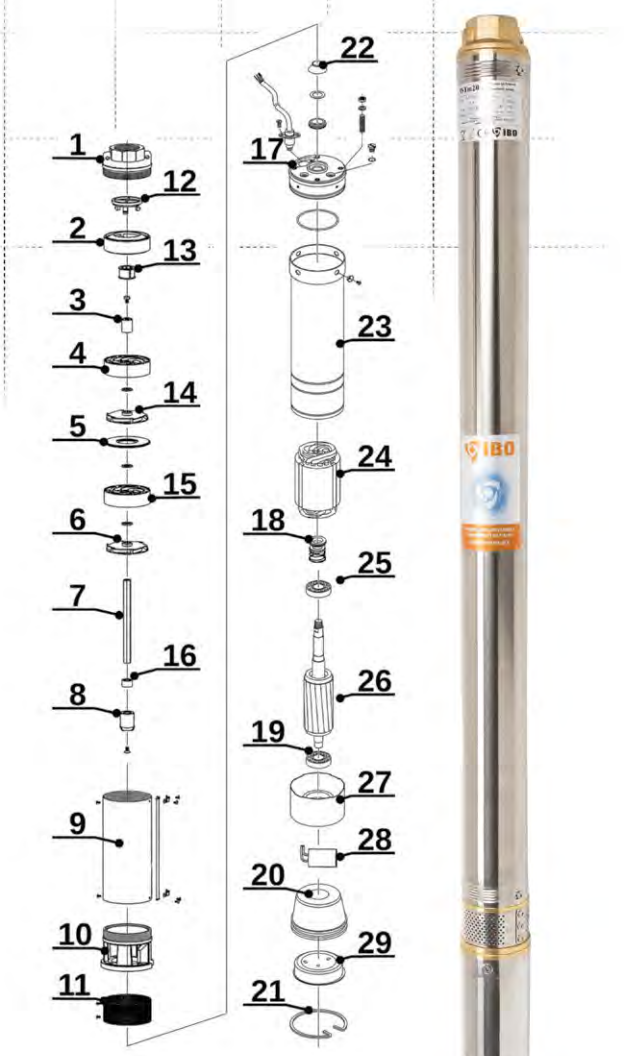
APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating gardens. Drainage/dewatering.

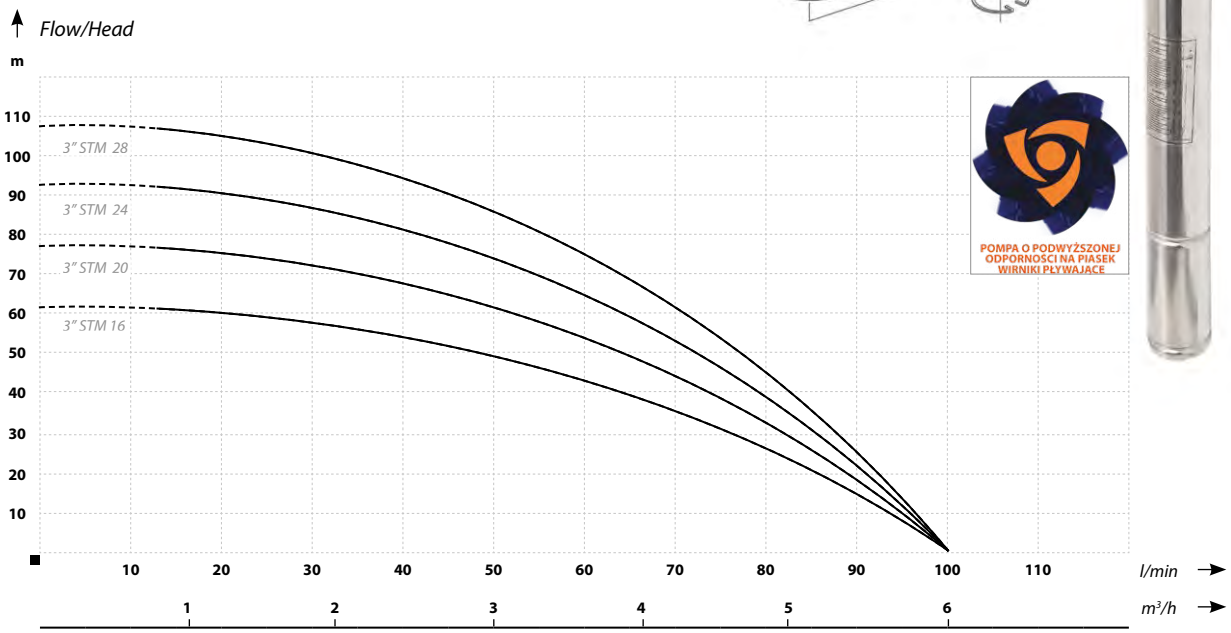
Operating conditions:

- 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" STM 16	62	100	750	230	5,5	1¼	75/1260	10
3" STM 20	77	100	1100	230	6,7	1¼	75/1480	12
3" STM 24	93	100	1100	230	6,7	1¼	75/1580	14
3" STM 28	108	100	1500	230	9,7	1¼	75/1760	16

3"ISP

MADE ENTIRELY OF STAINLESS STEEL



76 mm diameter stainless steel multi-stage deep well pumps intended for wells with 4" minimum diameter. Maximum sand content in water is up to 3%. Due to the materials used, the ISP pumps are among the most durable deep well pumps. Inlet, outlet, housing, shaft and impeller are made entirely of stainless steel. The pumps are supplied with 3" oil-cooled motors.

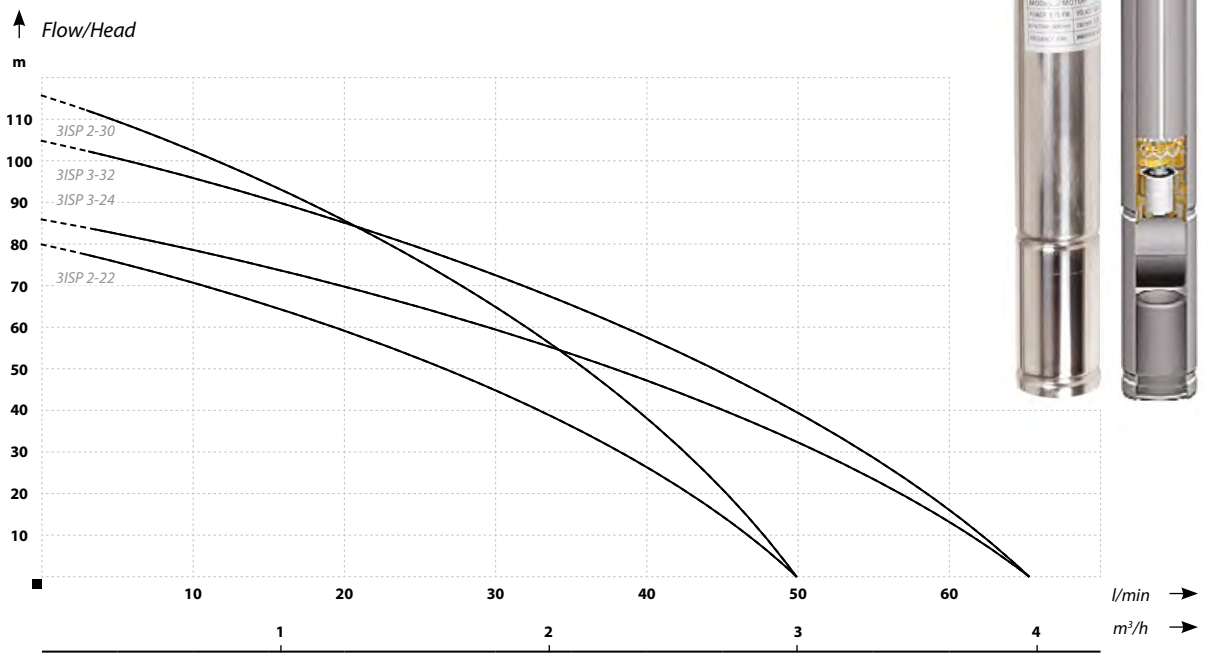
The 3" ISP series are the first pumps made entirely of stainless steel available on the Polish market.
The pumps have a 2 m long power cable that can be extended.
Upon request, the cable can be extended by any length. APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating 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: 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



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
3ISP 2-22	80	50	550	230	5,7	1 1/4"	76/1150	12
3ISP 2-30	115	50	750	230	7,3	1 1/4"	76/1350	14
3ISP 3-24	85	65	750	230	7,9	1 1/4"	76/1290	16
3ISP 3-32	105	65	1100	230	9,7	1 1/4"	76/1630	18

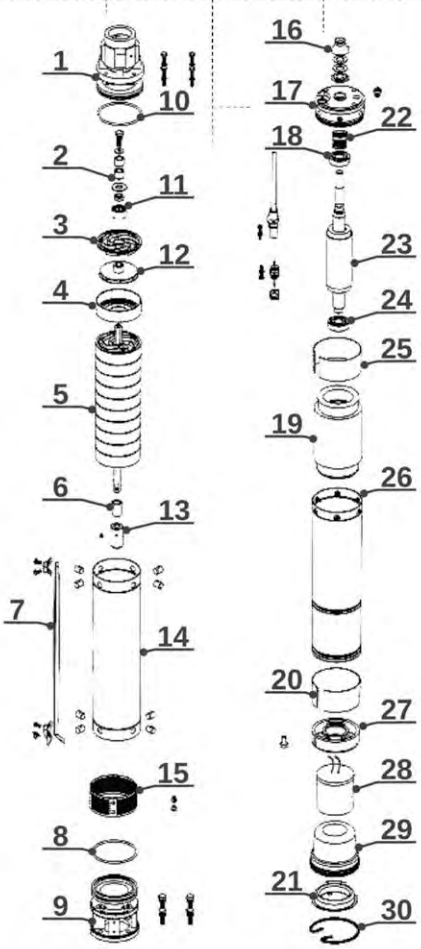
3,5"SCM / 3,5"SC

90 mm diameter multi-stage deep well pumps. Due to the proven design, it is the most economical solution for single-family houses and farms. With its small diameter, the capacitor built into the motor and the factory-mounted 18 m long cable, the pump is ready for installation immediately after unpacking.
Pumps are available as 230 V ~ /50 Hz and 400 V ~ 3/50 Hz versions. Single-phase pumps are equipped with thermal protection mounted in the motor winding.

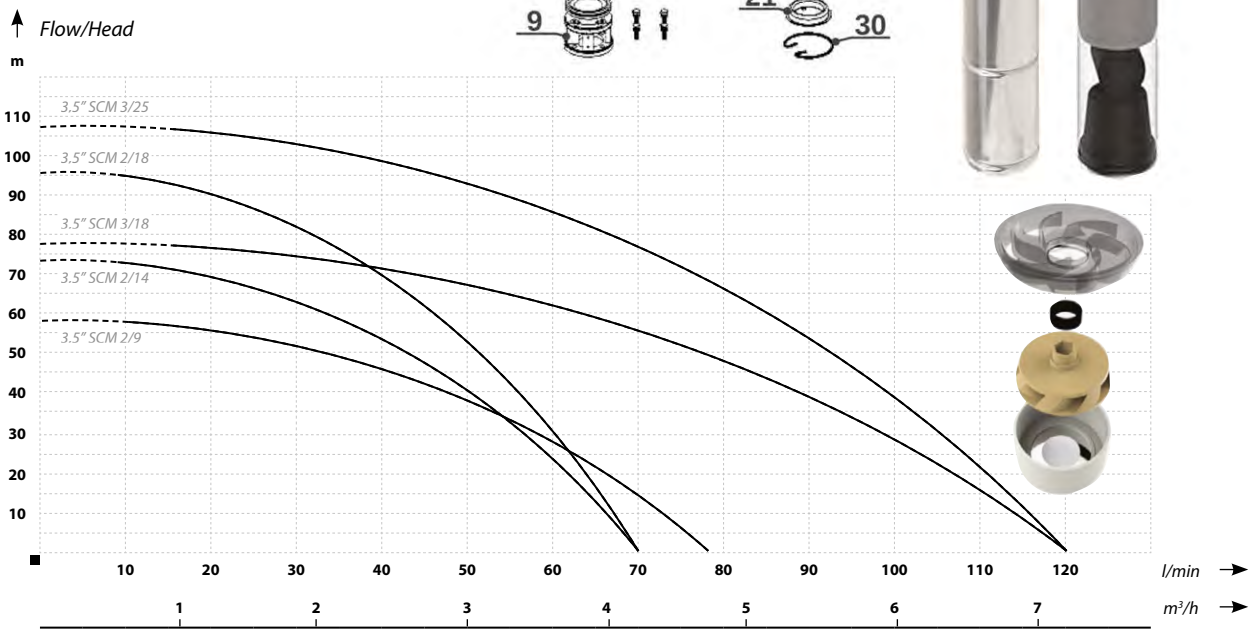
APPLICATION:
Supply of water to single-family houses and holiday houses. Irrigating gardens. Drainage/dewatering.

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

Materials:
- Inlet/outlet: grey cast iron
- 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)
3,5" SCM 2/9	58	78	550	230	4	1 ½	90/790	13
3,5" SCM 2/14	74	70	1100	230/400	5,8 / 2,8	1½	90/1010	16
3,5" SCM 2/18	95	70	1500	230/400	7,3 / 3,5	1½	90/1160	18
3,5" SCM 3/18	78	120	1500	230/400	7,3 / 3,5	1½	90/1410	19
3,5" SCM 3/25	108	120	1800	230/400	10 / 4,2	1½	90/1780	27

3,5" SDM

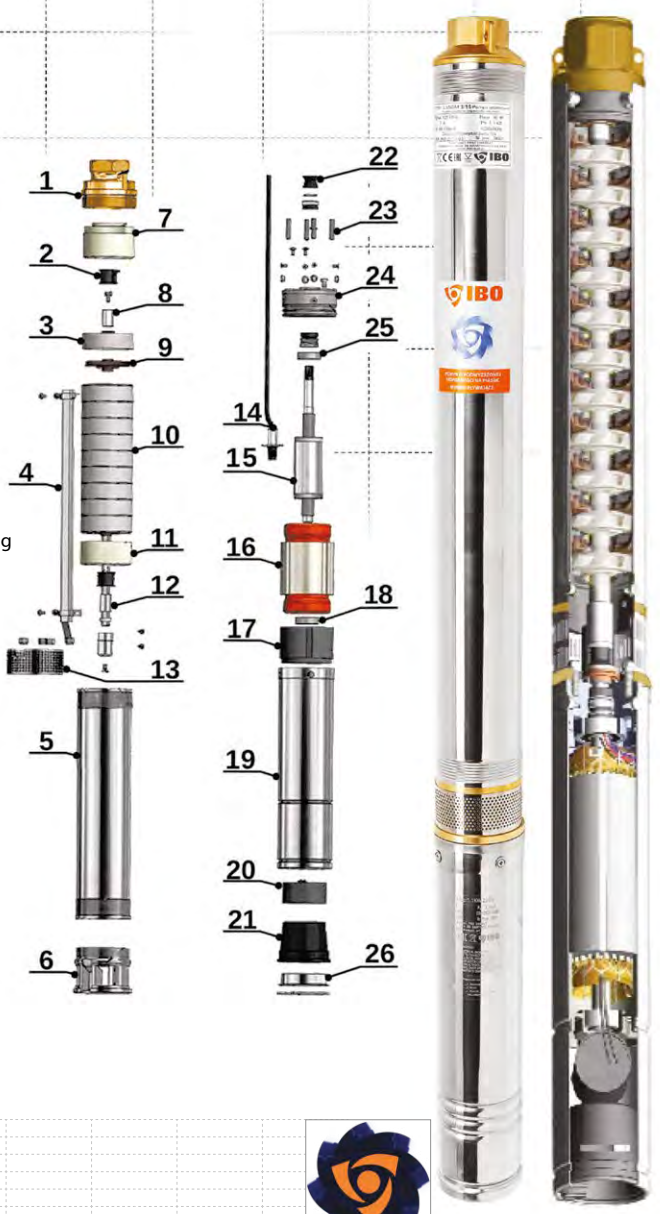
INCREASED RESISTANCE TO SAND

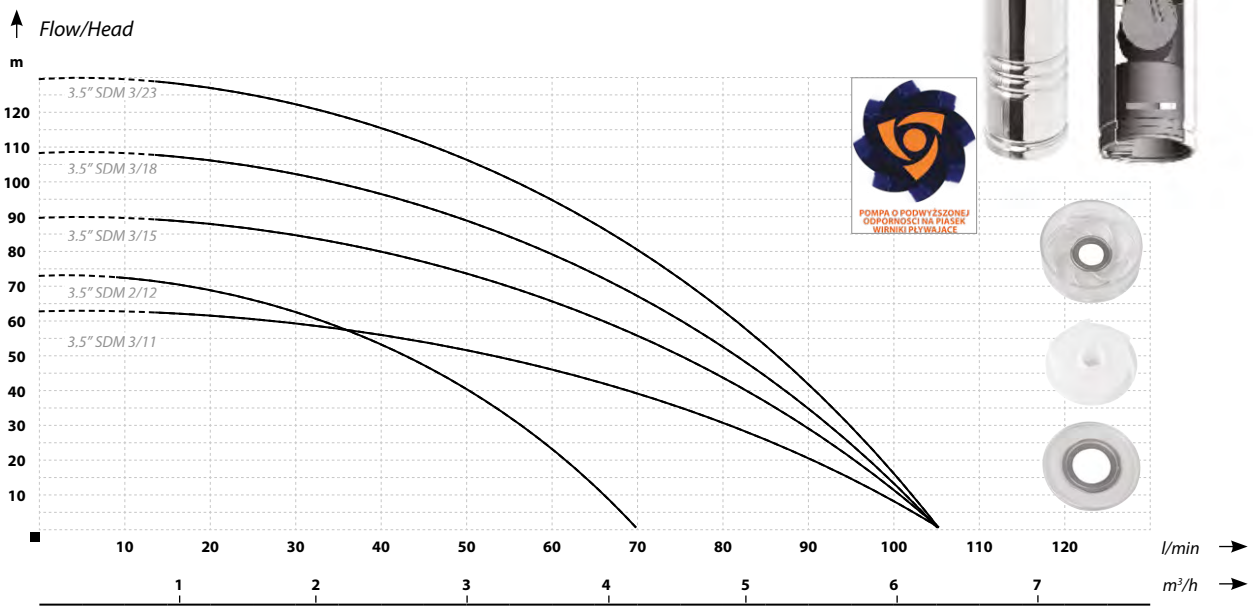
90 mm diameter multi-stage deep well pumps with increased resistance to sand. Power supply 230 V~ /50 Hz. The IBO SDM series were the first pumps on the market to be known as "sand resistant". Increased resistance to sand is achieved by using "floating impellers" and the selection of wear-resistant materials: brass, AISI 304 stainless steel, and high quality plastic materials. The pumps are equipped with thermal protection mounted in the motor winding. With its small diameter, the capacitor built into the motor and the factory-mounted 20 m long cable, the pump is ready for installation immediately after unpacking.
The 3.5SDM pumps were the first 90 mm diameter pumps in Poland and are currently among the most often installed pumps by installation services.

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)
3,5" SDM 2/12	73	70	800	230	5,5	1 ¼	90/920	11,5
3,5" SDM 3/11	63	105	800	230	5,5	1½	90/1020	11
3,5" SDM 3/15	90	105	1100	230	7,5	1½	90/1260	17
3,5" SDM 3/18	109	105	1500	230	9,9	1½	90/1410	18
3,5" SDM 3/23	130	105	1800	230	11,9	1½	90/1670	23

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 diamater wells.

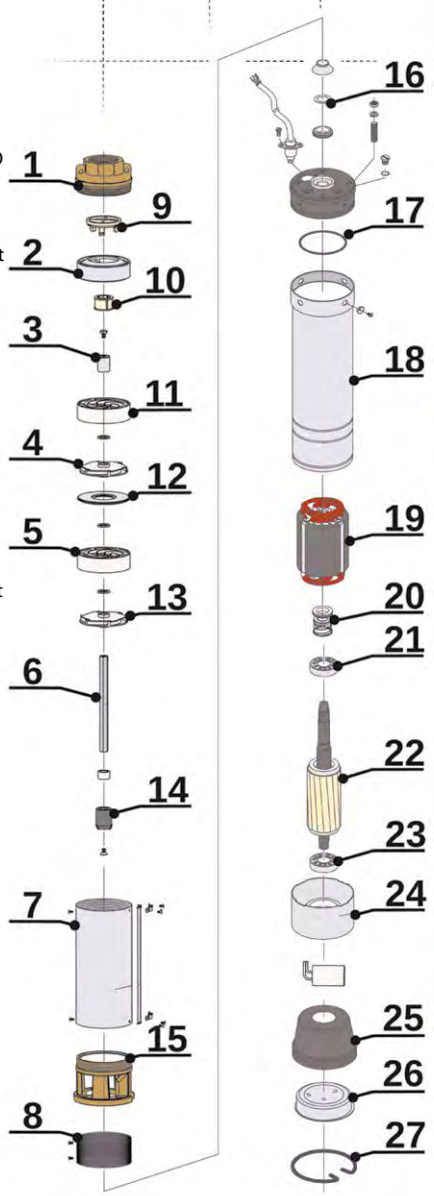
All SD pumps have PZH (National Institute of Hygiene) approval. 4SD/4SDM pumps are available with IBO and IBO ITALY motors as 400V~3 /50Hz and 230V / 50Hz versions. Increased resistance to sand is achieved by using "floating impellers" and the selection of wear-resistant materials: brass inlet and outlet, 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.

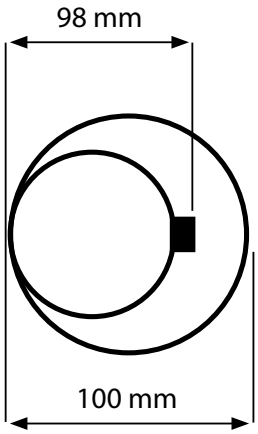
Operating conditions:
- Maximum liquid temperature 35°C
- Maximum ambient temperature 35°C
- Class B/F Insulation
- Operating mode - continuous
- Protection - IP68

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





POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE

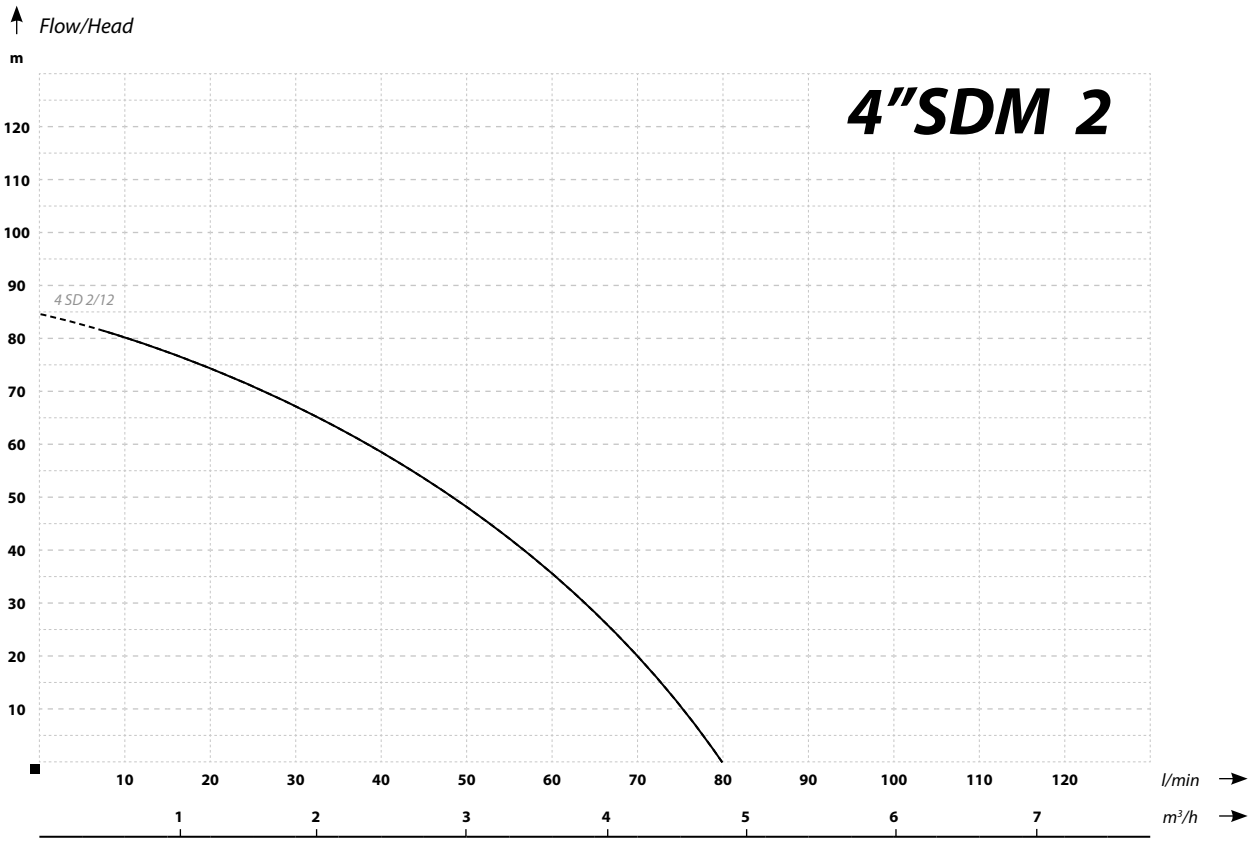


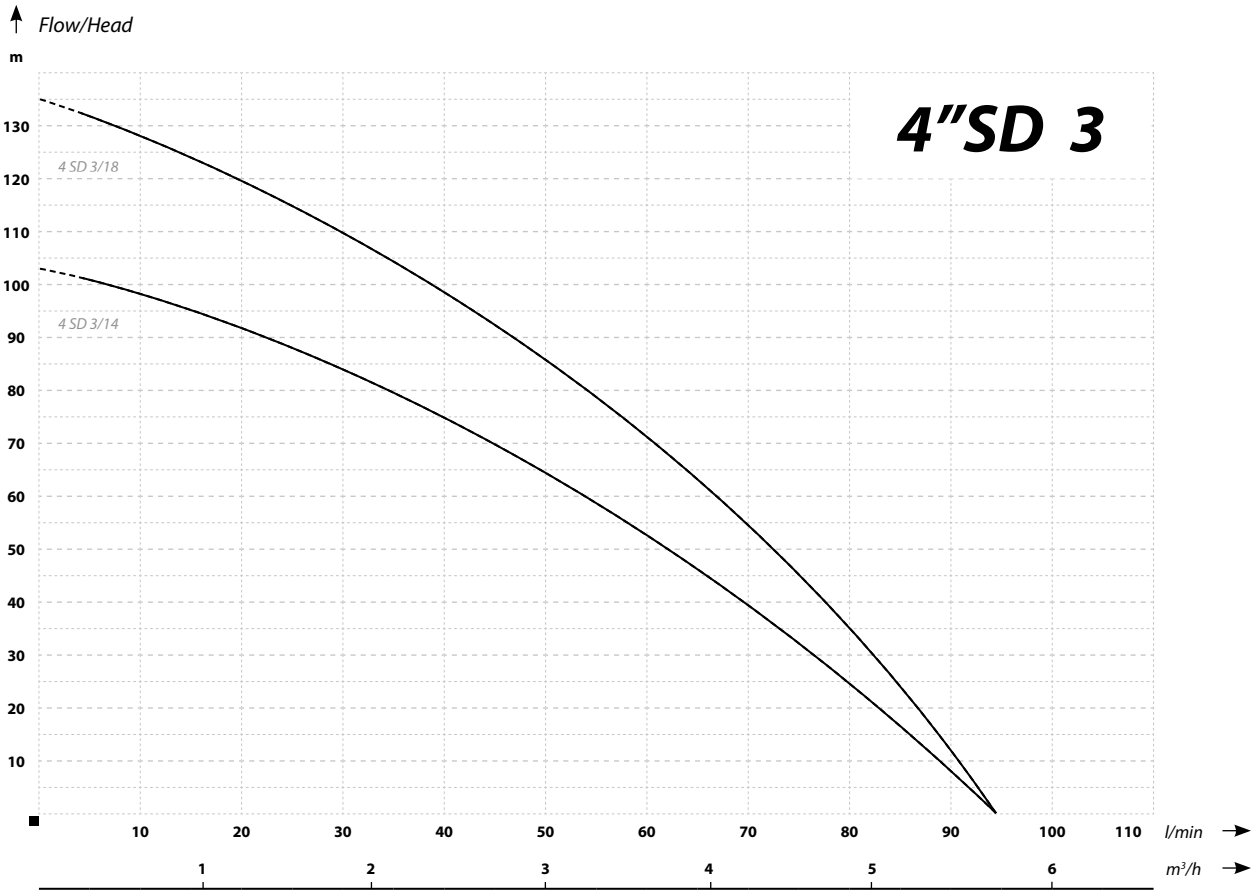


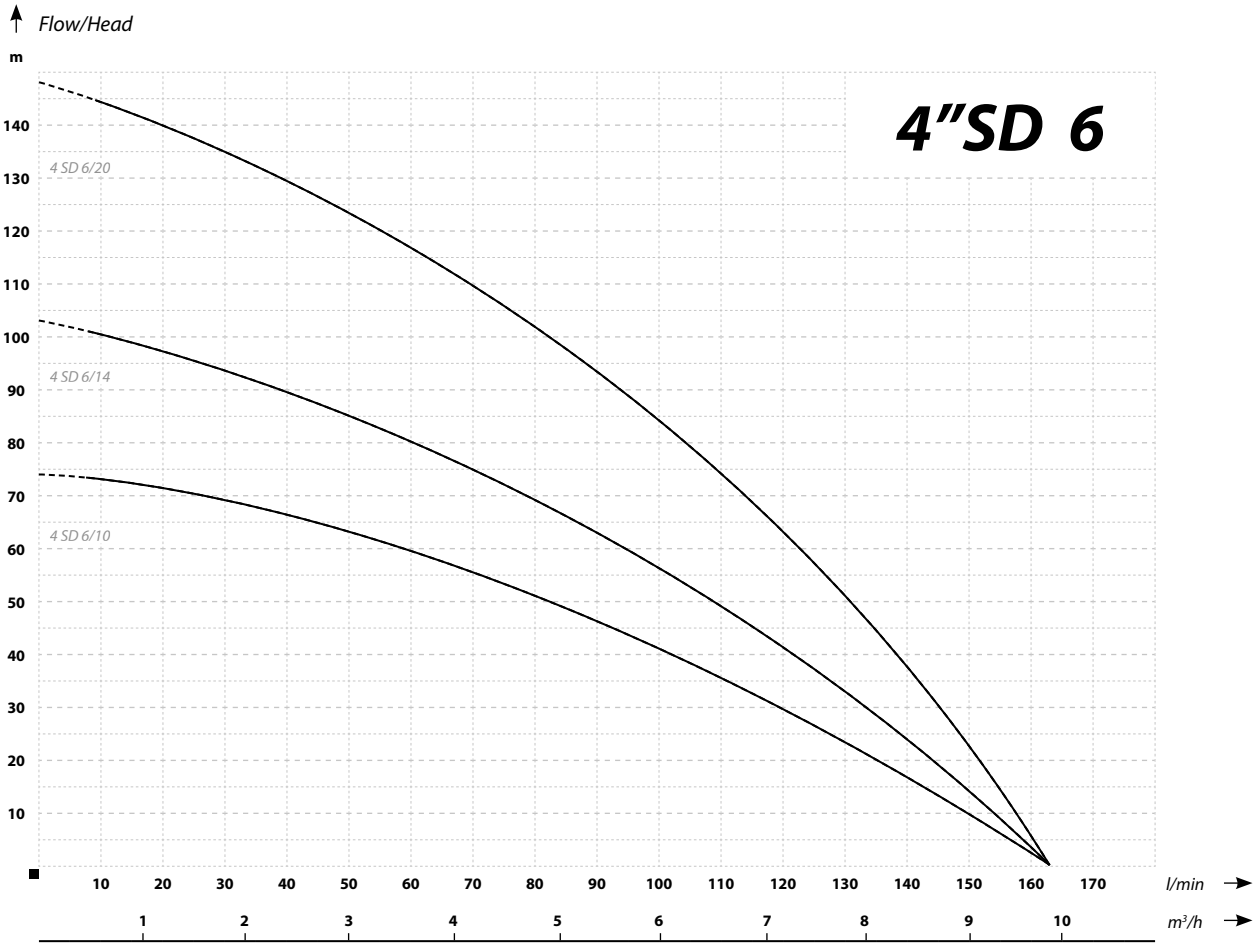
Depending on the production batch, the device parameters may differ from the data provided in the table

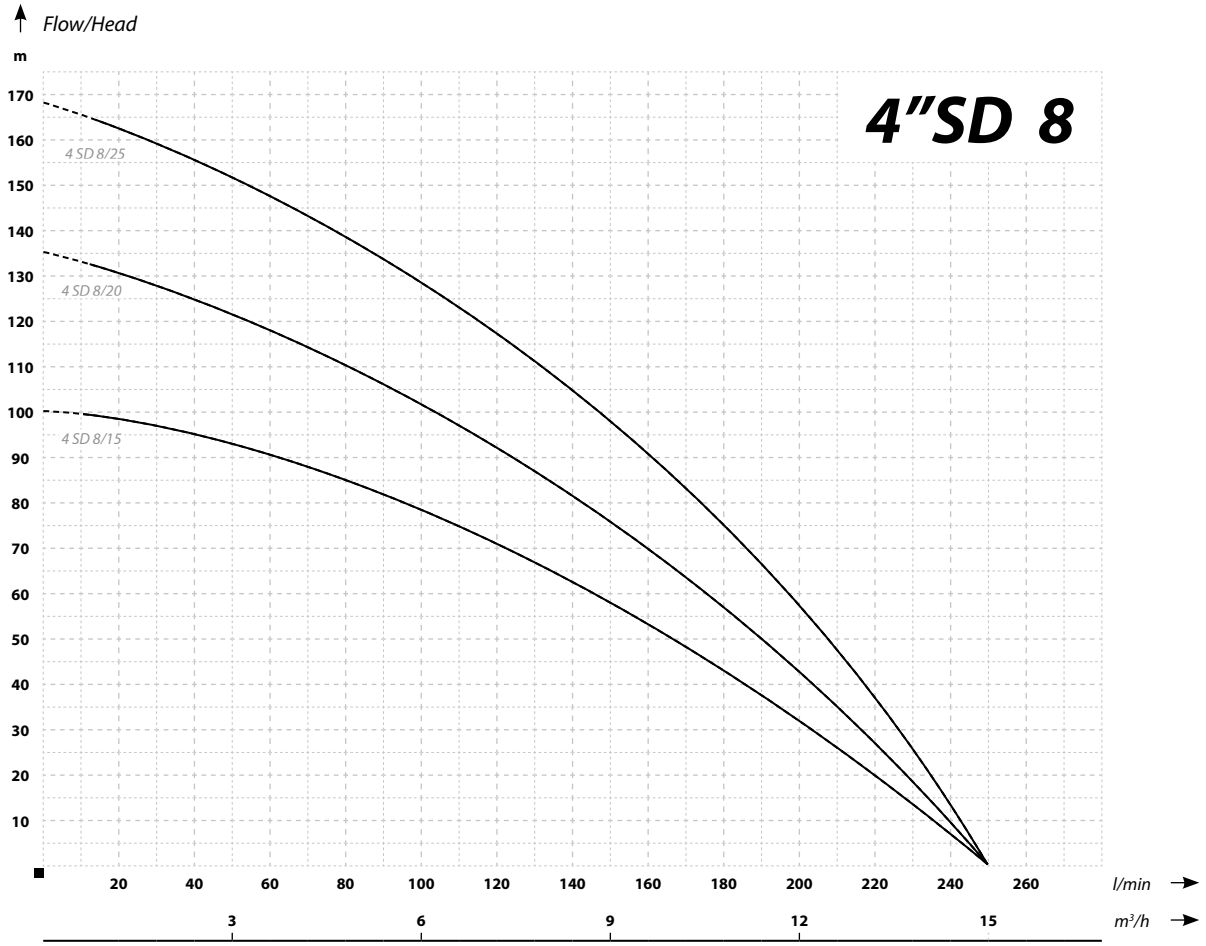
PARAMETERS

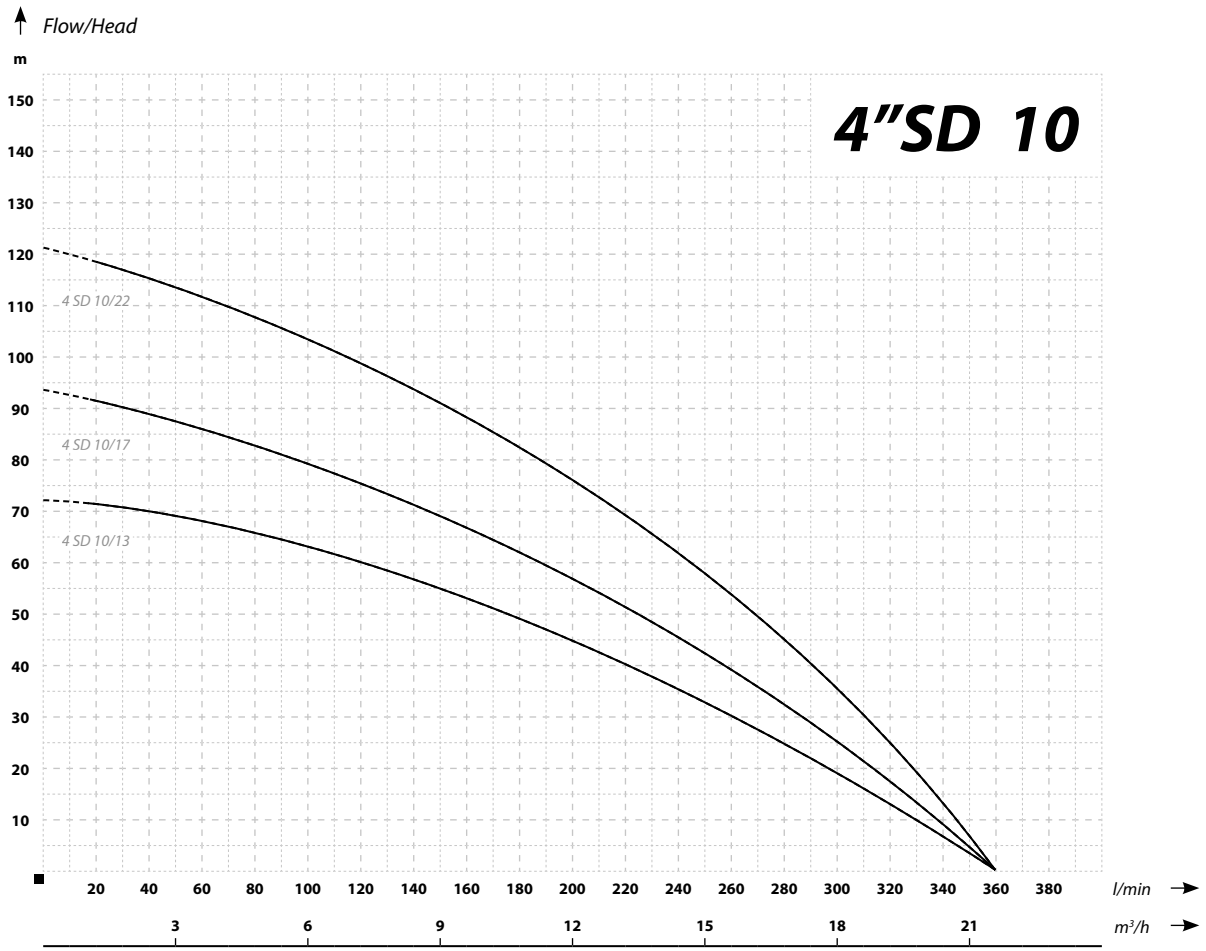
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
4 SD 2/12	85	80	0,75	230	6,3	1¼	98/930	16
4 SD 3/14	103	94	1,1	230/400	8,5/4,0	1½	98/1050	17
4 SD 3/18	135	94	1,5	230/400	10,5/5,0	1½	98/1260	19
4 SD 6/10	74	162	1,5	230/400	10,5/5,0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

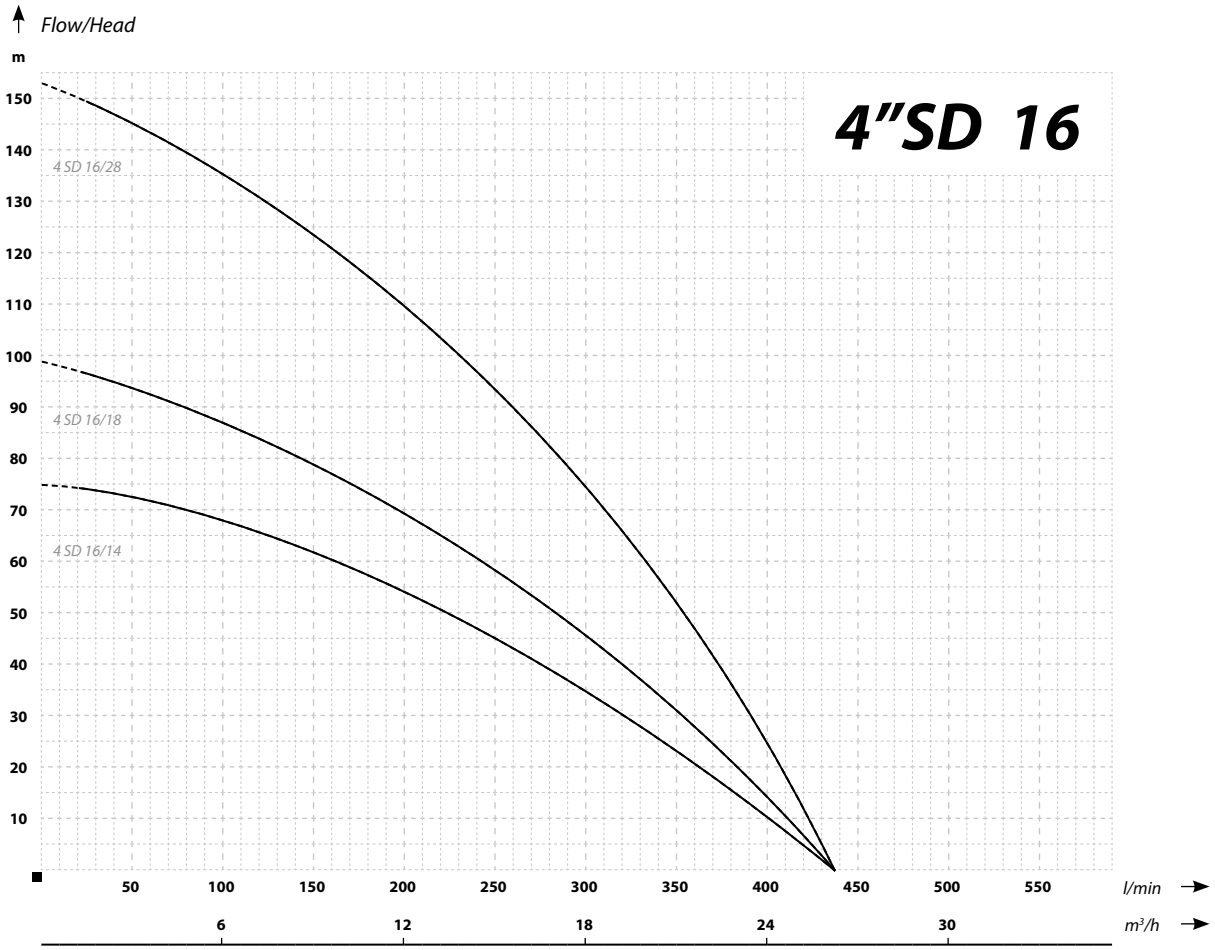


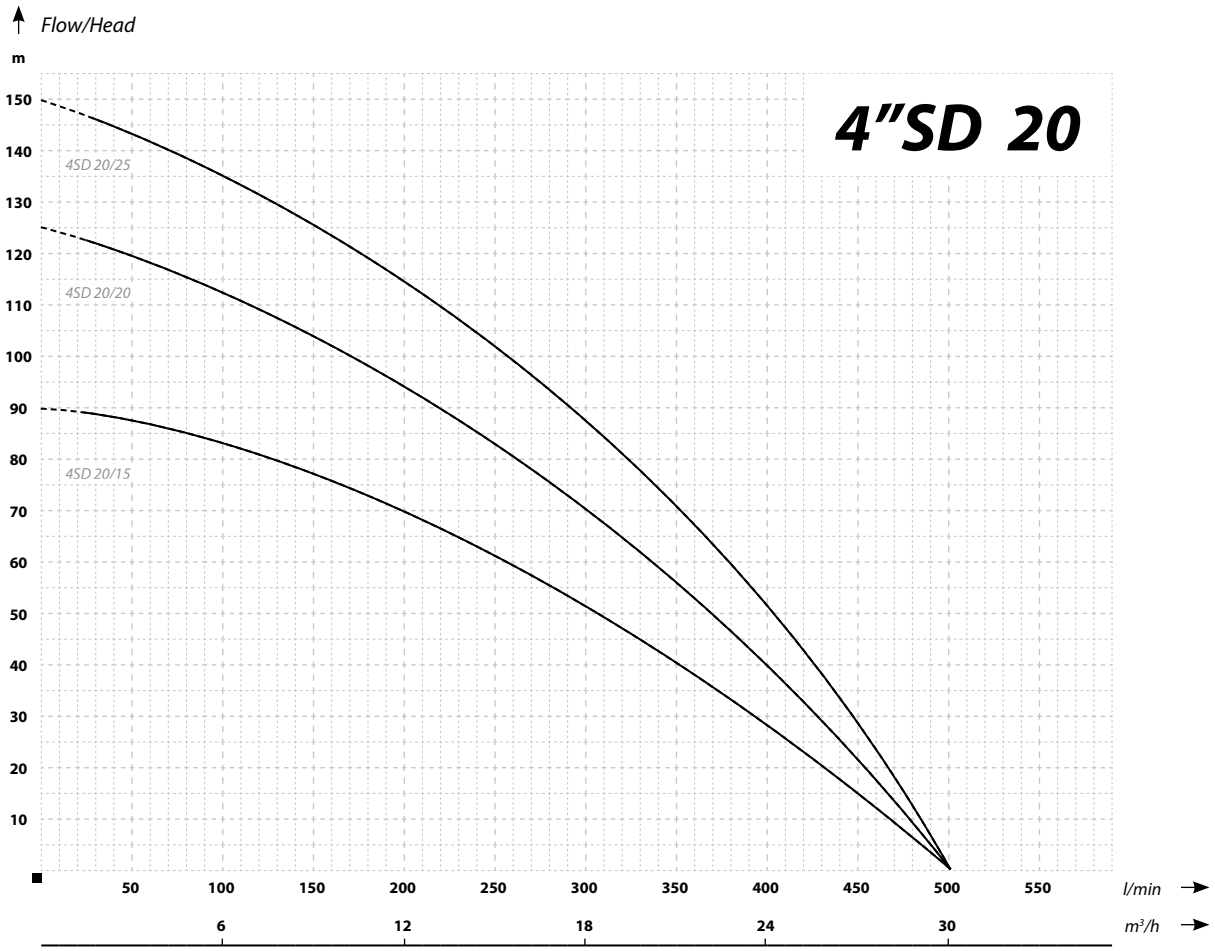

Flow/Head
m
4"SD 3
4 SD 3/18
4 SD 3/14
130
120
110
100
90
80
70
60
50
40
30
20
10
10 20 30 40 50 60 70 80 90 100 110 l/min
1 2 3 4 5 6 m³/h


Flow/Head
m
4"SD 6
4 SD 6/20
4 SD 6/14
4 SD 6/10
140
130
120
110
100
90
80
70
60
50
40
30
20
10
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 l/min
1 2 3 4 5 6 7 8 9 10 m³/h


Flow/Head
m
4"SD 8
4 SD 8/25
4 SD 8/20
4 SD 8/15
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
20 40 60 80 100 120 140 160 180 200 220 240 260
l/min
3 6 9 12 15
m³/h


Flow/Head
m
4"SD 10
4 SD 10/22
4 SD 10/17
4 SD 10/13
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380
l/min
3 6 9 12 15 18 21
m³/h


Flow/Head
m
4"SD 16
4 SD 16/28
4 SD 16/18
4 SD 16/14
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
50
100
150
200
250
300
350
400
450
500
550
l/min
6
12
18
24
30
m³/h


Flow/Head
m
4"SD 20
4SD 20/25
4SD 20/20
4SD 20/15
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
50
100
150
200
250
300
350
400
450
500
550
l/min
6
12
18
24
30
m³/h

4"ISP / 4"ISPM

98 mm diameter stainless steel multi-stage deep well pumps intended for minimum 4" diamater 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.

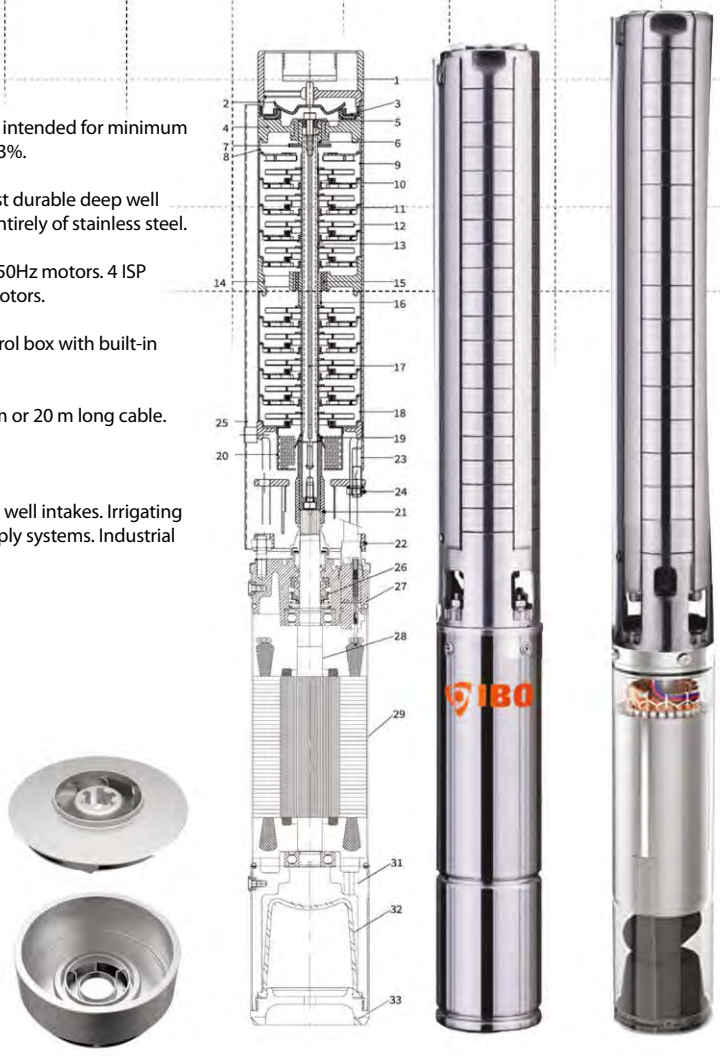
Pumps with 230 V ~ / 50 Hz motors are equipped with a control box with built-in capacitor and overcurrent protection.

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

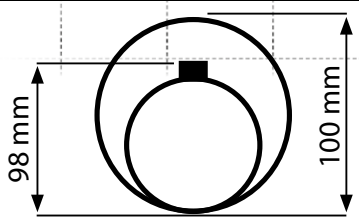


Depending on the production batch, the device parameters may differ from the data provided in the table

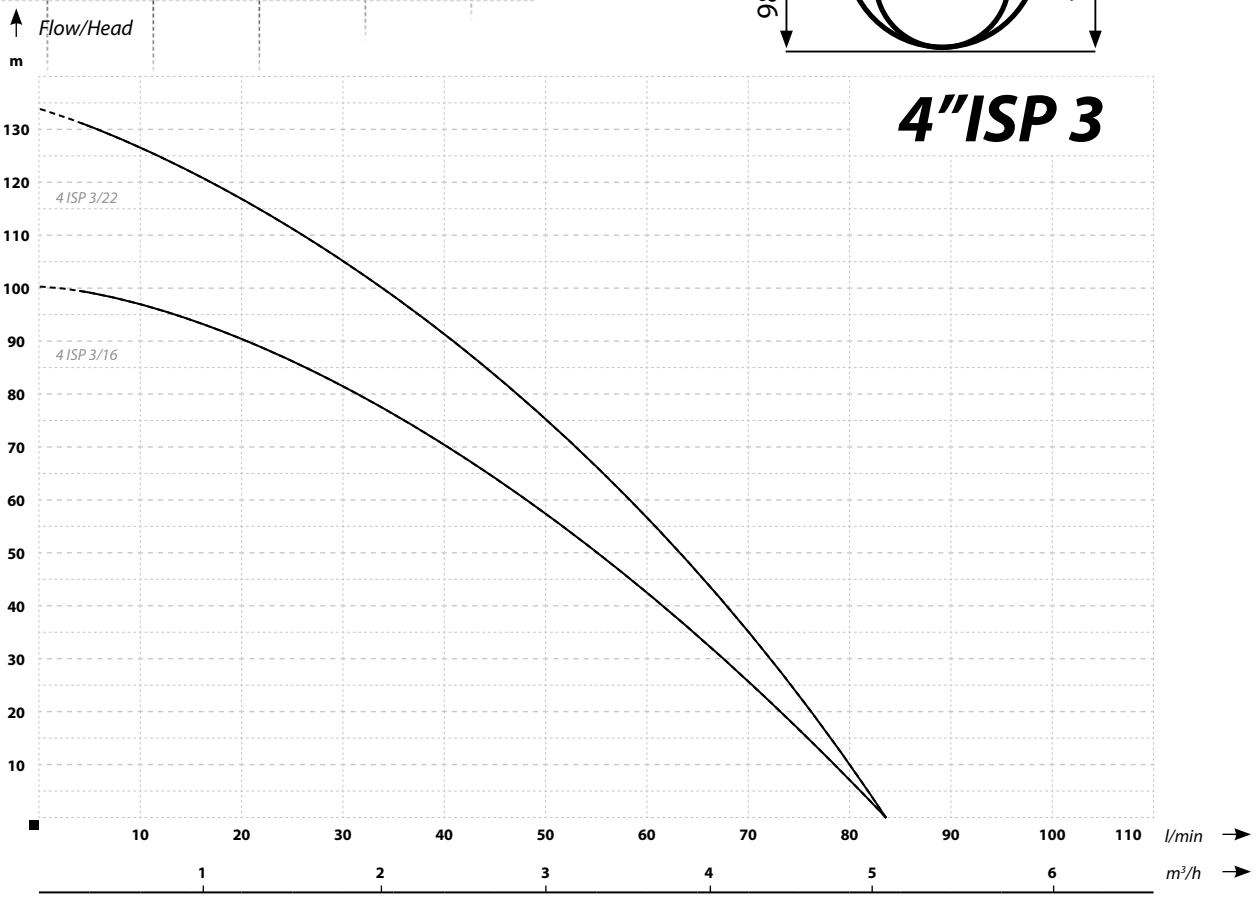
PARAMETERS

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

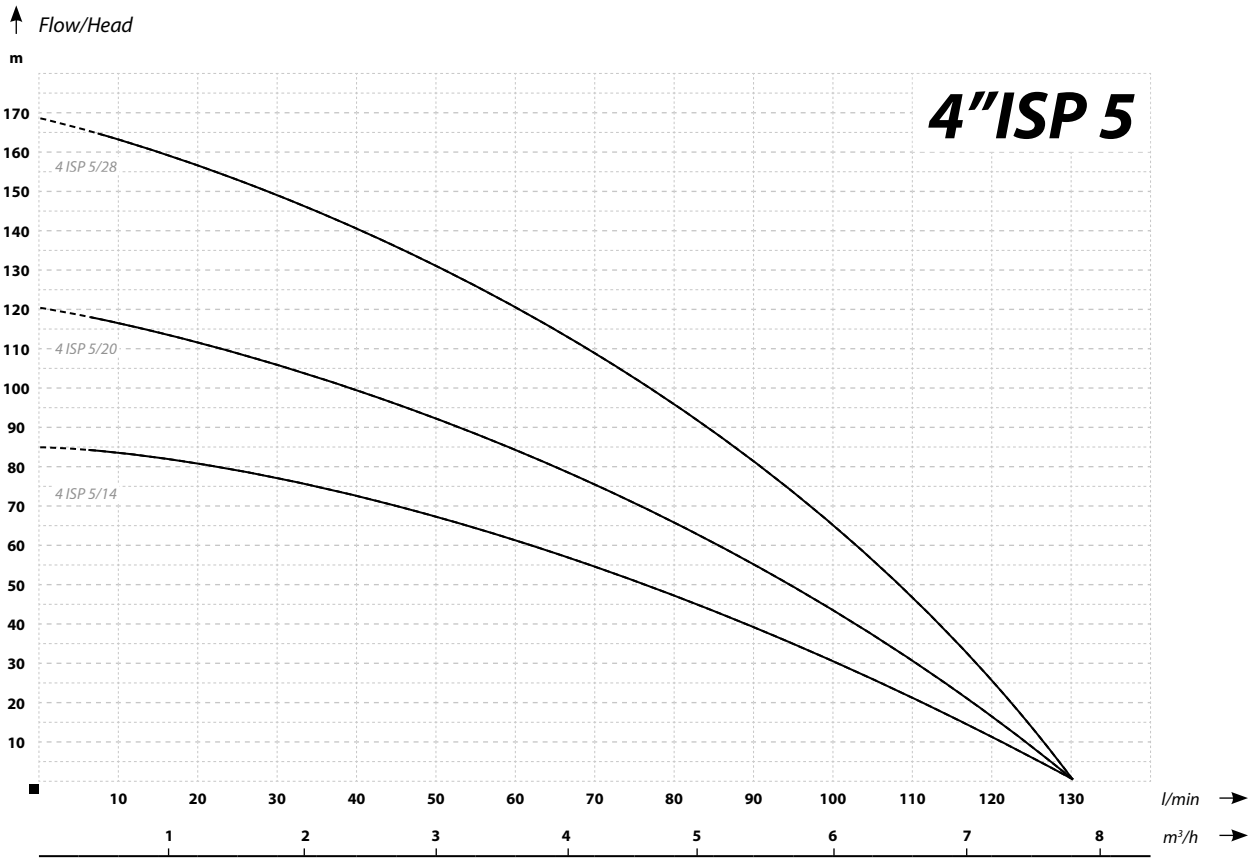
4"ISP / 4"ISPM



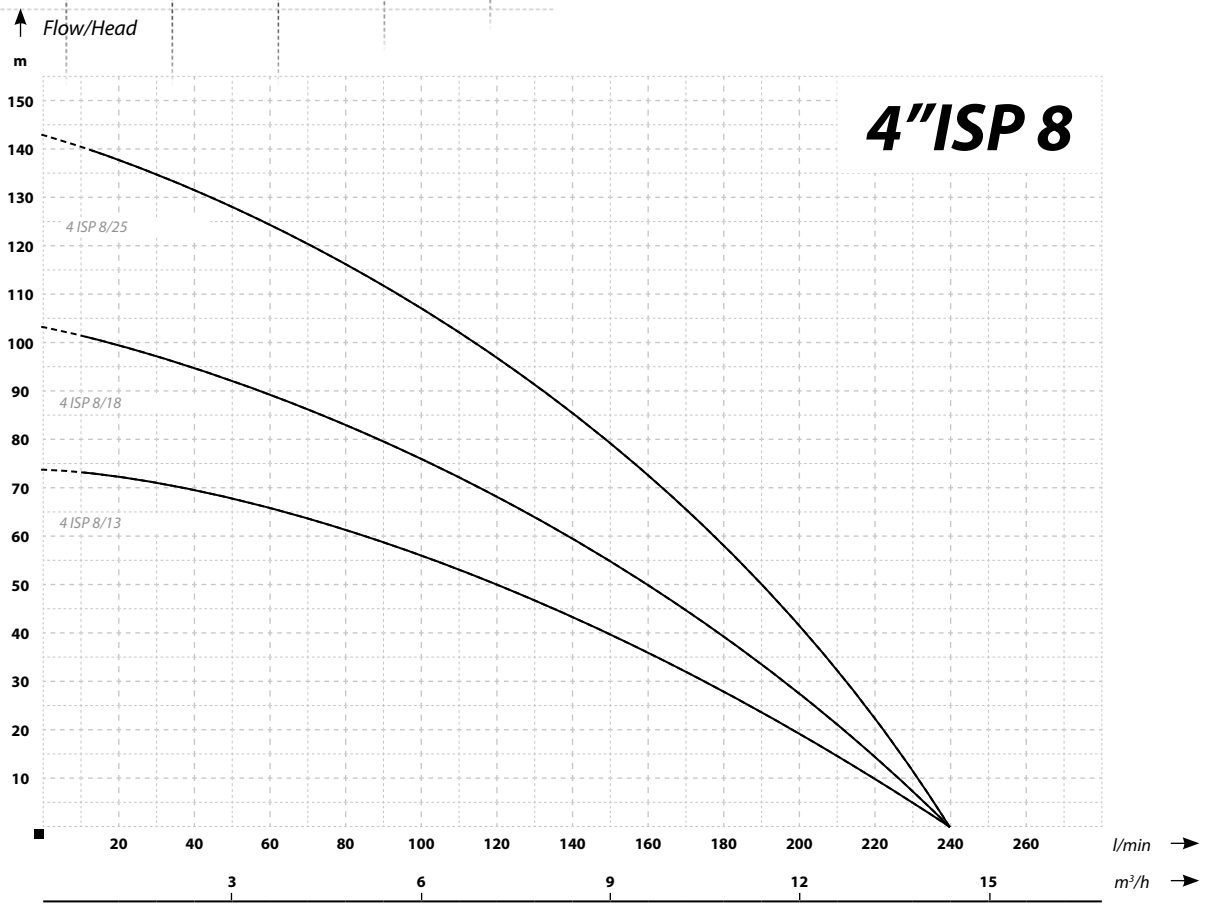
4"ISP 3

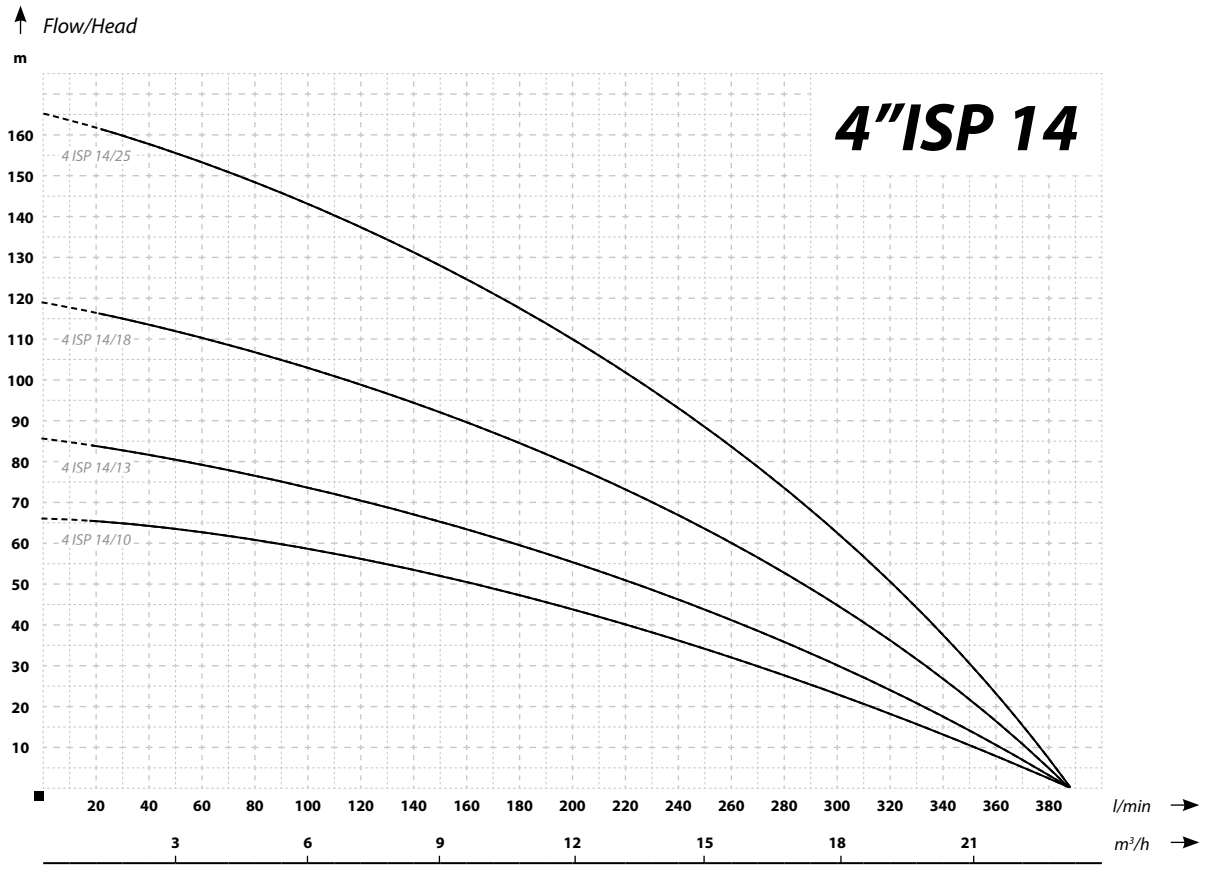


4"ISP 5



4"ISP / 4"ISPM


Flow/Head
m
4"ISP 8
4 ISP 8/25
4 ISP 8/18
4 ISP 8/13
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
20 40 60 80 100 120 140 160 180 200 220 240 260
l/min
3 6 9 12 15
m³/h


Flow/Head
m
4"ISP 14
4 ISP 14/25
4 ISP 14/18
4 ISP 14/13
4 ISP 14/10
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380
l/min
3 6 9 12 15 18 21
m³/h

IBQ HIGH SPEED DEEP WELL PUMPS

IBQ multi-stage centrifugal deep well pumps are designed for operation in drilled wells and open water reservoirs. Unlike other deep well pumps, the IBQ have advanced energy-saving motors with permanent magnets and a frequency converter. As a result, the motor achieves 6000 rpm and a very high performance.

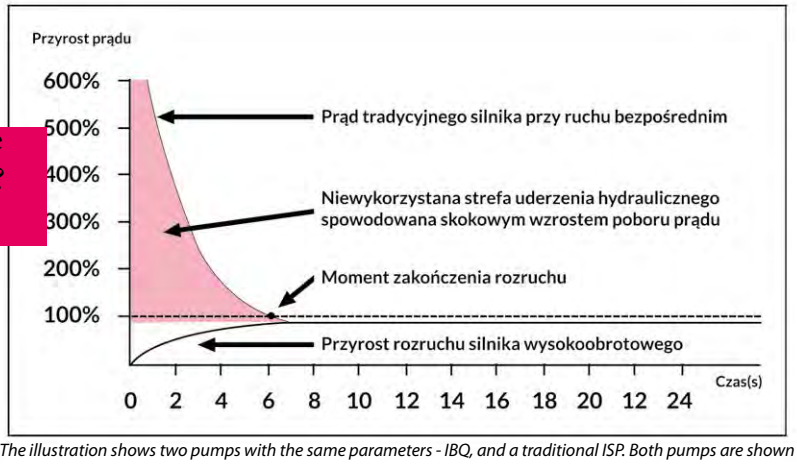
Motor design with permanent magnets and an inverter has many advantages over traditional pumps. These include:

- Energy saving due to high performance of the motor and pump. By achieving the same hydraulic parameters of pressure and performance, the IBQ pumps can be used with motor that are approximately 15-20% smaller than motors used in traditional pumps.
- Dry-running protection. The inverter electronics control the motor current draw. When dry run specific draw is detected, the motor is stopped. After a certain period of time, the pump tries to automatically restart, and its operation will continue after inflow is restored.
- Soft start resulting in no negative effect of hydraulic shock on the hydraulic system, significantly reduced mechanical wear of the motor and pump, no impact of inrush current on the electricity network.
- In traditional solutions, in order to achieve constant motor operating parameters, rapid starting is required. During starting, the motor draws a multiple of normal operating current during the first few seconds of operation (inrush current). This may result in voltage fluctuations in the electricity network affecting operation of other devices connected to this network, blown fuses, and burning of electrical connections in control units. Usually, hydraulic parameters of the pump are during starting instantaneously higher than nominal, which means that in the first seconds of operation water with higher parameters (pressure, flow) than nominal, designed for a given network is pumped into the system. This is called hydraulic shock. Repeated hydraulic shock leads to excessive wear of hydraulic components of the water supply system. Another disadvantage eliminated by soft start is the wear and tear of motor's mechanical and electrical components. Hydraulic shocks increase the mechanical load on the motor and pump, and the high inrush current weakens the internal insulation of the motor.
- The motors can operate with relatively high voltage fluctuations 160-250V for single-phase motors, 320-450V for three-phase motors.
- Due to the smaller size of IBQ pumps compared to traditional pumps, drilling and installation costs are considerably lower.

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 F Insulation
- Operating mode - continuous
- Protection - IP68

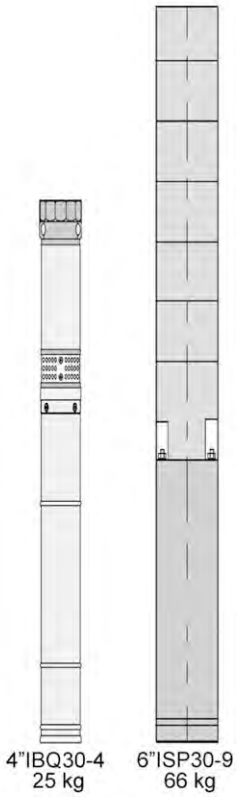
Materials:
- Inlet/outlet: stainless steel AISI 304
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Impeller: stainless steel AISI 304
- Venturi tube: stainless steel AISI 304
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling / with inverter
- Rotational speed of the electric motor: 6000RMP



a rysunku nie tłumaczymy ?

The illustration shows two pumps with the same parameters - IBQ, and a traditional ISP. Both pumps are shown in the same scale.





3″IBQ

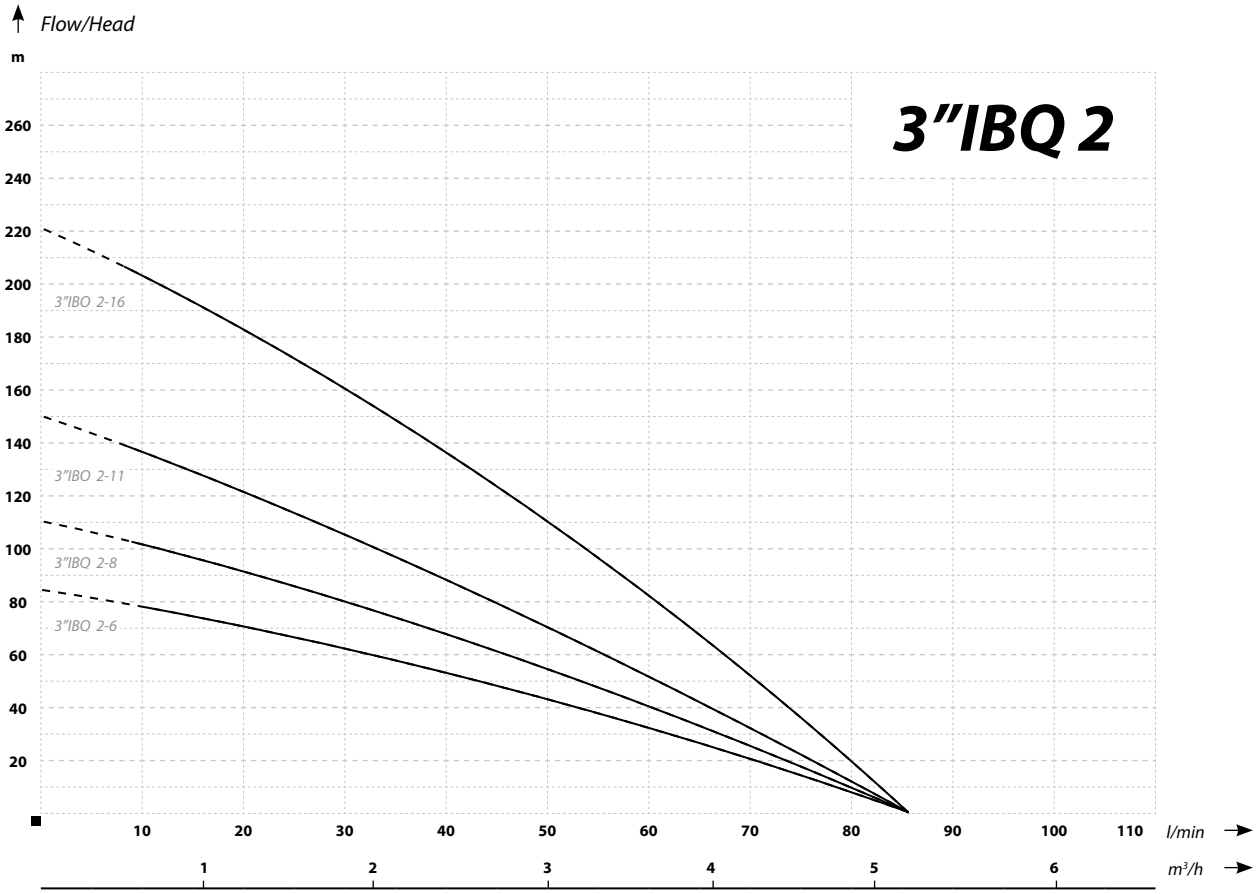
Maximum pump diameter 78 mm

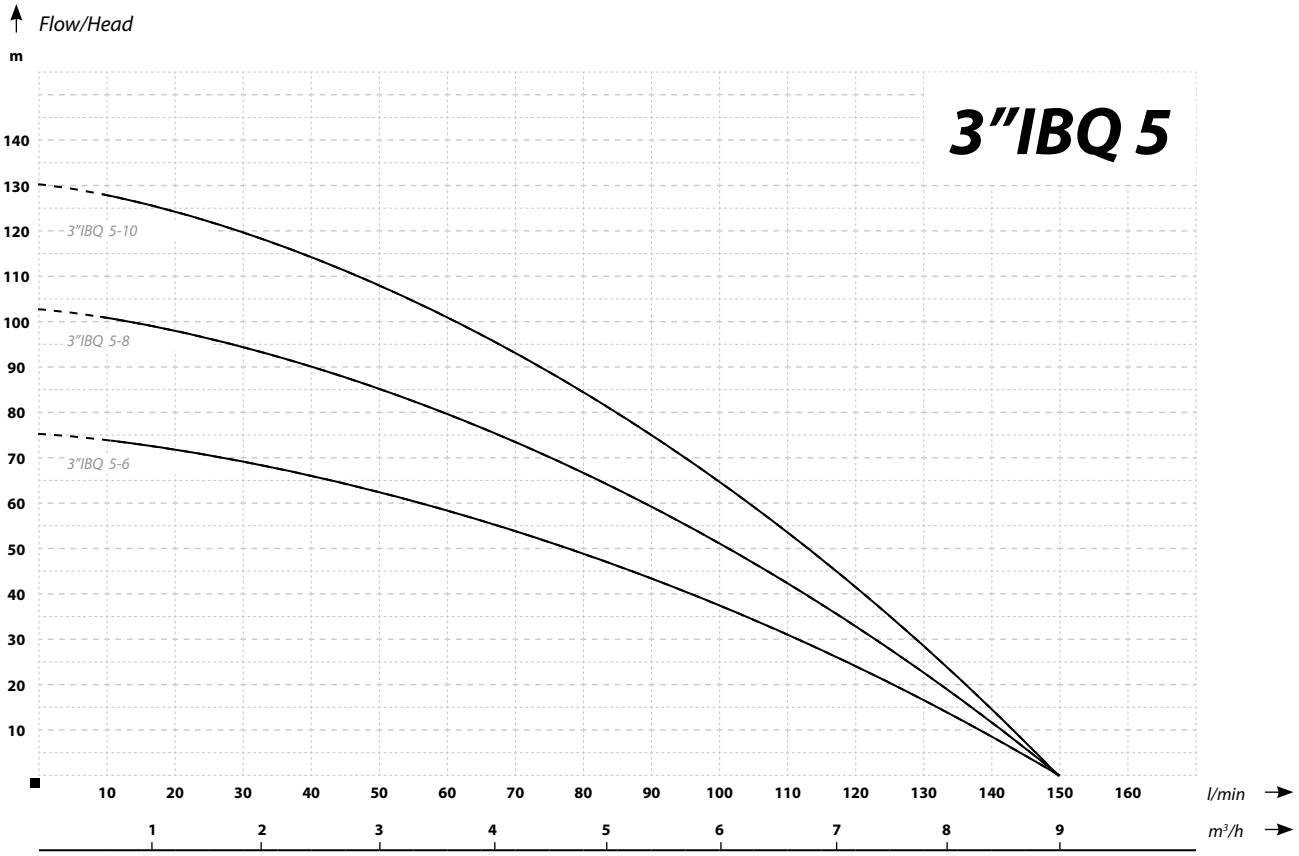
PARAMETERS

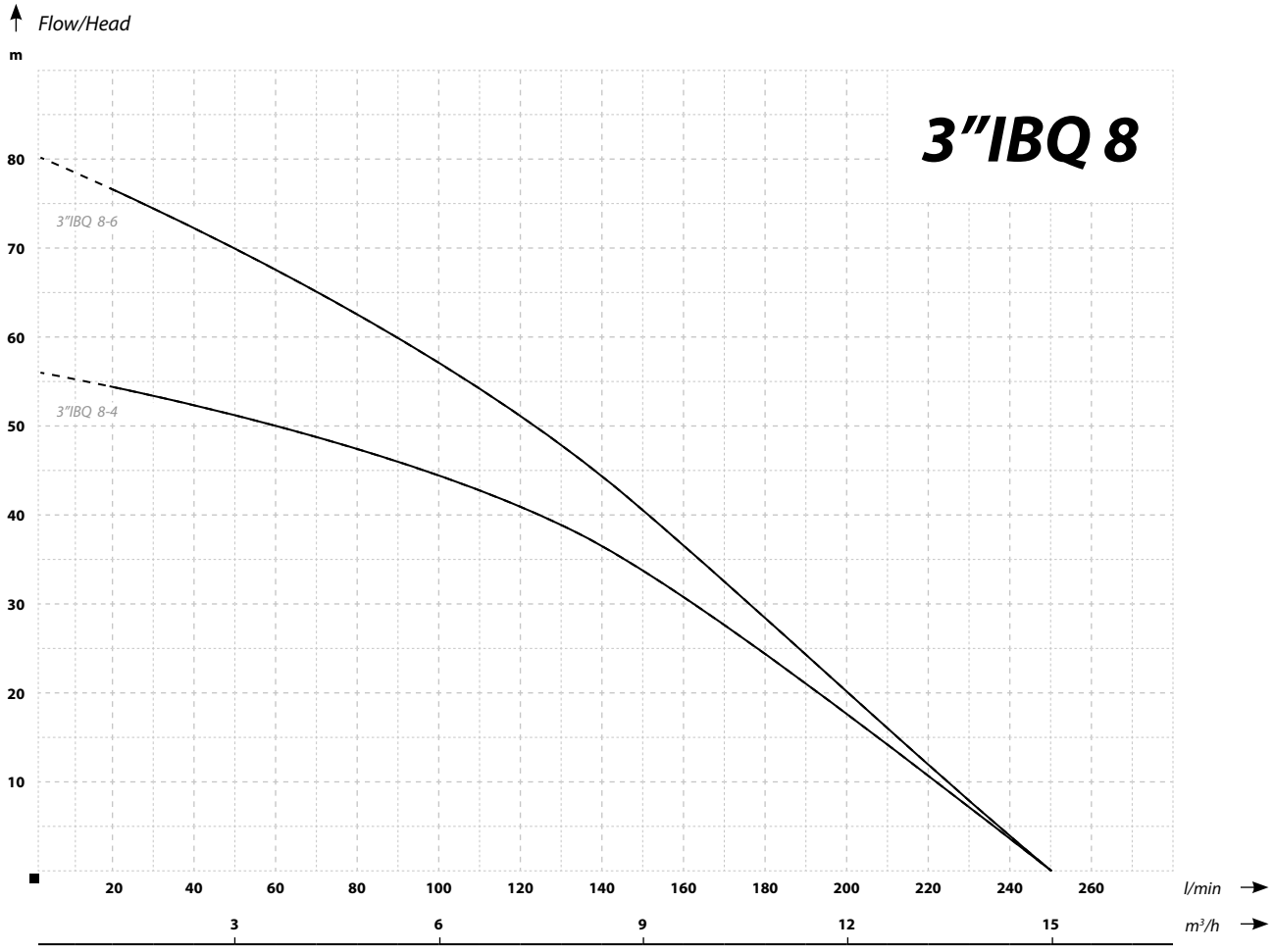
Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
3″IBQ 2-6	0,8	1¼	160 - 250	109	85	85	9,3
3″IBQ 2-8	1,1	1¼	160 - 250	112	85	110	10,3
3″IBQ 2-11	1,5	1¼	160 - 250	117	85	150	12,5
3″IBQ 2-16	2,2	1¼	160 - 250	130	85	220	14,2

Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
3″IBQ 5-6	1,1	1¼	160 - 250	108	150	75	10,3
3″IBQ 5-8	1,5	1¼	160 - 250	120	150	102	13,3
3″IBQ 5-10	2,2	1¼	160 - 250	131	150	130	13,8

Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
3″IBQ 8-4	1,5	1½	160 - 250	101	250	56	12,1
3″IBQ 8-6	2,2	1½	160 - 250	113	250	80	13,6




Flow/Head
m
3"IBQ 5
3"IBQ 5-10
3"IBQ 5-8
3"IBQ 5-6
140
130
120
110
100
90
80
70
60
50
40
30
20
10
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160
l/min
1 2 3 4 5 6 7 8 9
m³/h


Flow/Head
m
3"IBQ 8
3"IBQ 8-6
3"IBQ 8-4
80
70
60
50
40
30
20
10
20 40 60 80 100 120 140 160 180 200 220 240 260
l/min
3 6 9 12 15
m³/h

4"IBQ

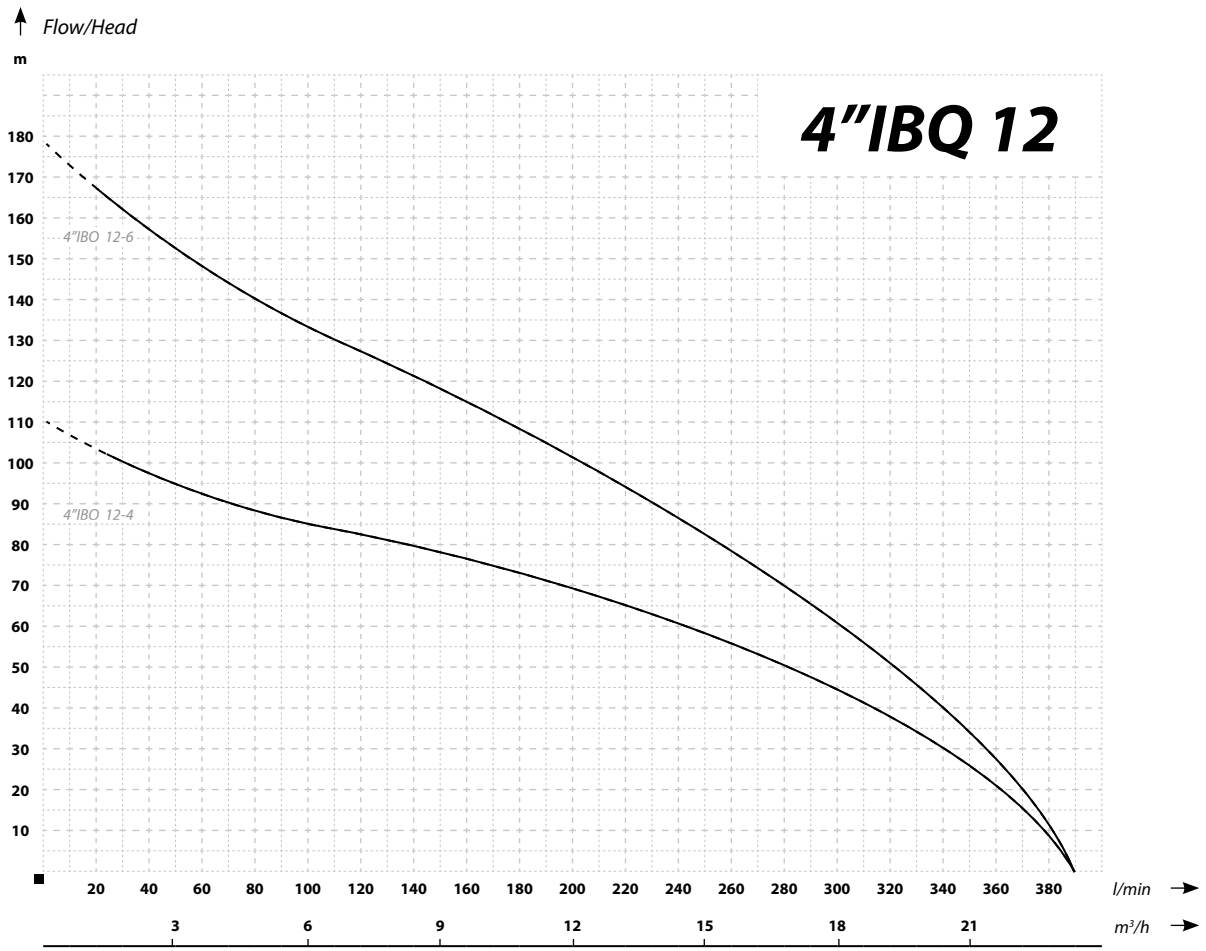
Maximum pump diameter 98 mm

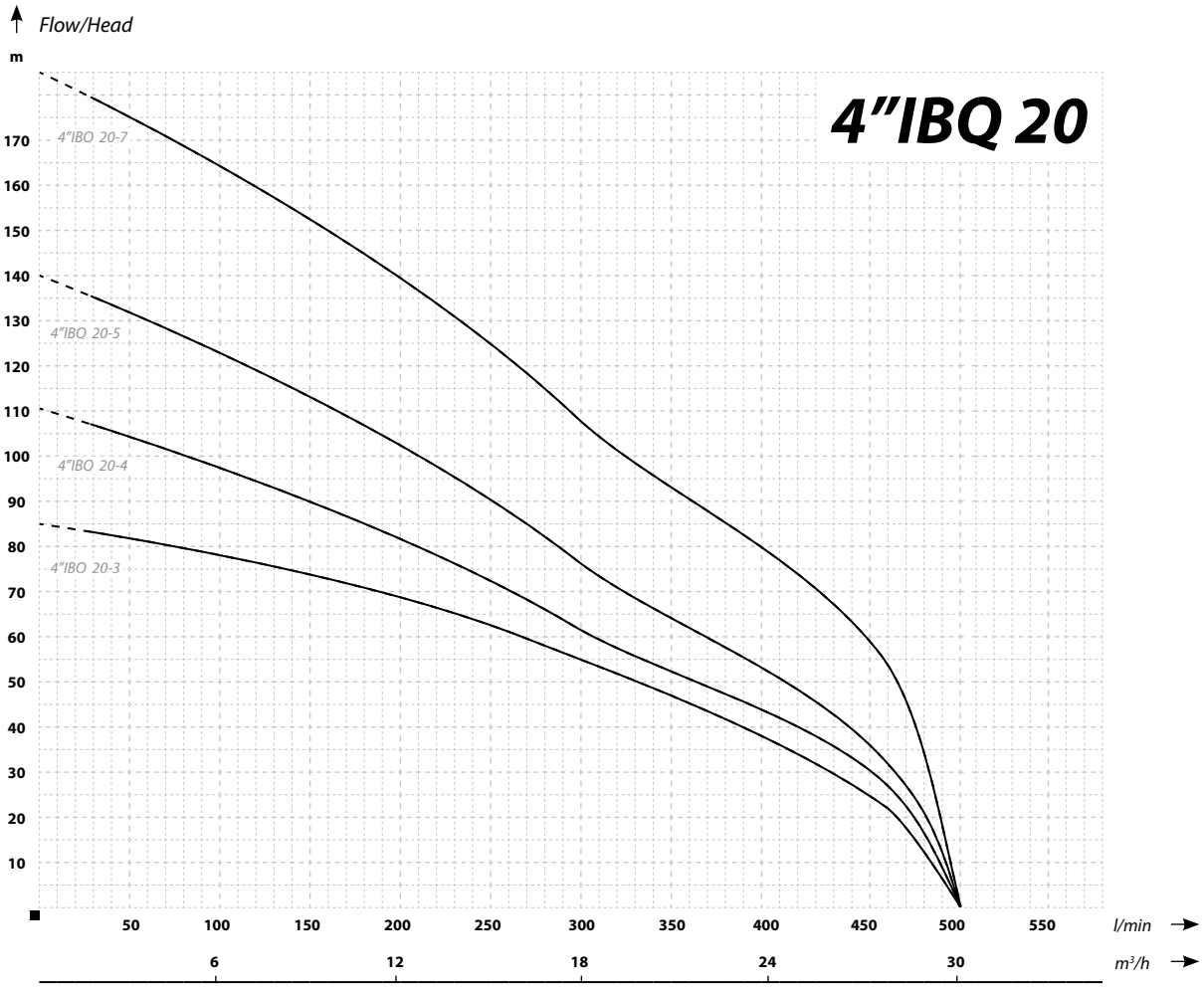
PARAMETERS

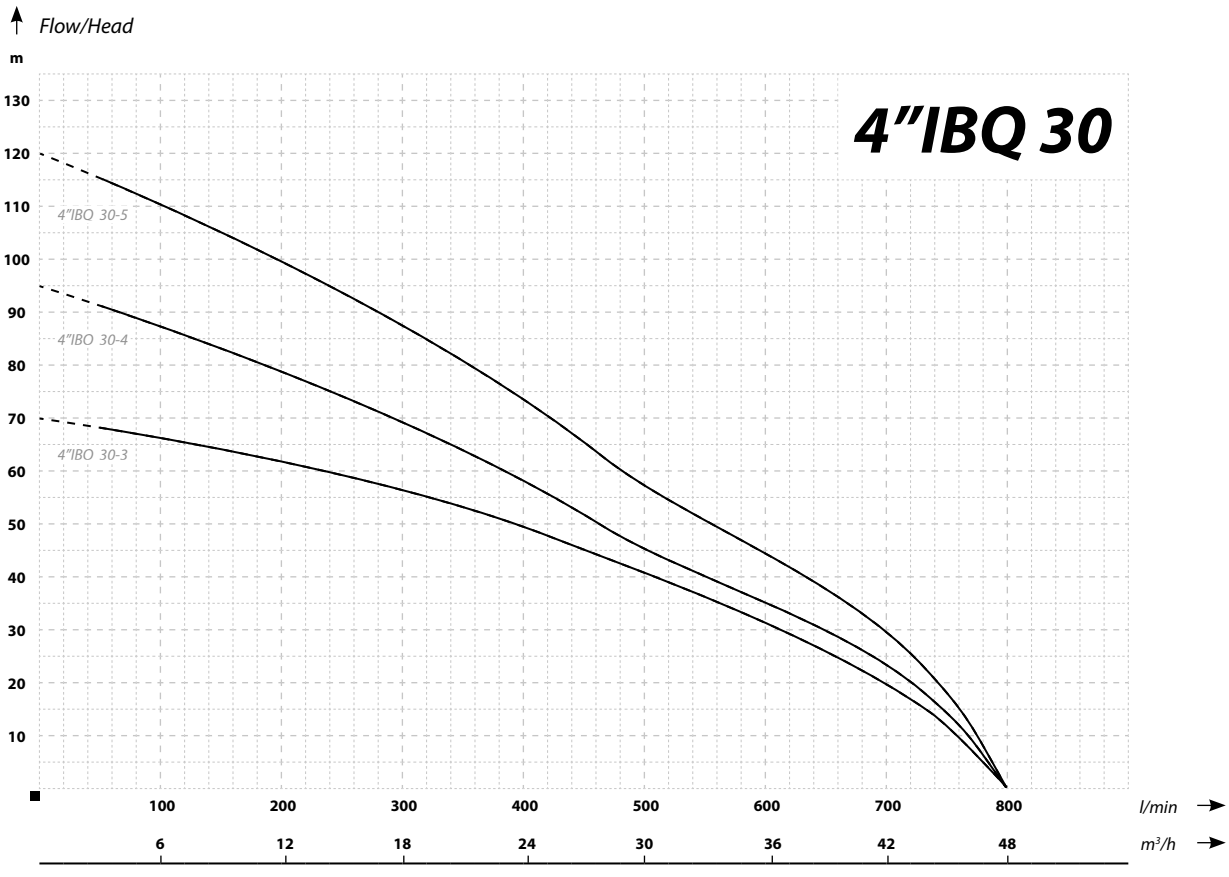
Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
4"IBQ 12-4	4	2	320-450	104	390	110	20,2
4"IBQ 12-6	5,5	2	320-450	114	390	178	22,2

Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
4"IBQ 20-3	4	2	320-450	104	500	85	20,2
4"IBQ 20-4	5,5	2	320-450	114	500	110	20,7
4"IBQ 20-5	7,5	2	320-450	124	500	140	25,1
4"IBQ 20-7	11	2	320-450	144	500	185	29

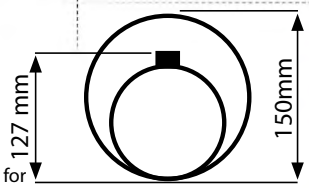
Name	Motor (kW)	Outlet (inch)	Voltage (V) single phase	Pump height (cm)	Max. flow (l/min)	Max. head (m)	Weight (kg) (without cable)
4"IBQ 30-3	5,5	3	320-450	115	800	70	22,5
4"IBQ 30-4	7,5	3	320-450	126	800	95	25,3
4"IBQ 30-5	11	3	320-450	140	800	120	28,7




Flow/Head
m
4"IBQ 20
4"IBO 20-7
4"IBO 20-5
4"IBO 20-4
4"IBO 20-3
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
50
100
150
200
250
300
350
400
450
500
550
l/min
6
12
18
24
30
m³/h


Flow/Head
m
4"IBQ 30
4"IBO 30-5
4"IBO 30-4
4"IBO 30-3
130
120
110
100
90
80
70
60
50
40
30
20
10
100
200
300
400
500
600
700
800
l/min
6
12
18
24
30
36
42
48
m³/h

5" SD
INCREASED RESISTANCE TO SAND





127 mm diameter multi-stage deep well pumps with increased resistance to sand, intended for minimum 5" wells. The IBO SD series were the first pumps on the market to be known as "sand resistant". The "sand resistance" is the unquestionable advantage of IBO pumps over competing products due their innovative and rare design
with increased resistance to sand, unusual in 3-inch pumps. For 5SD 25 pumps, the maximum sand content in water is 5%. Increased resistance to sand is achieved by using "floating impellers".

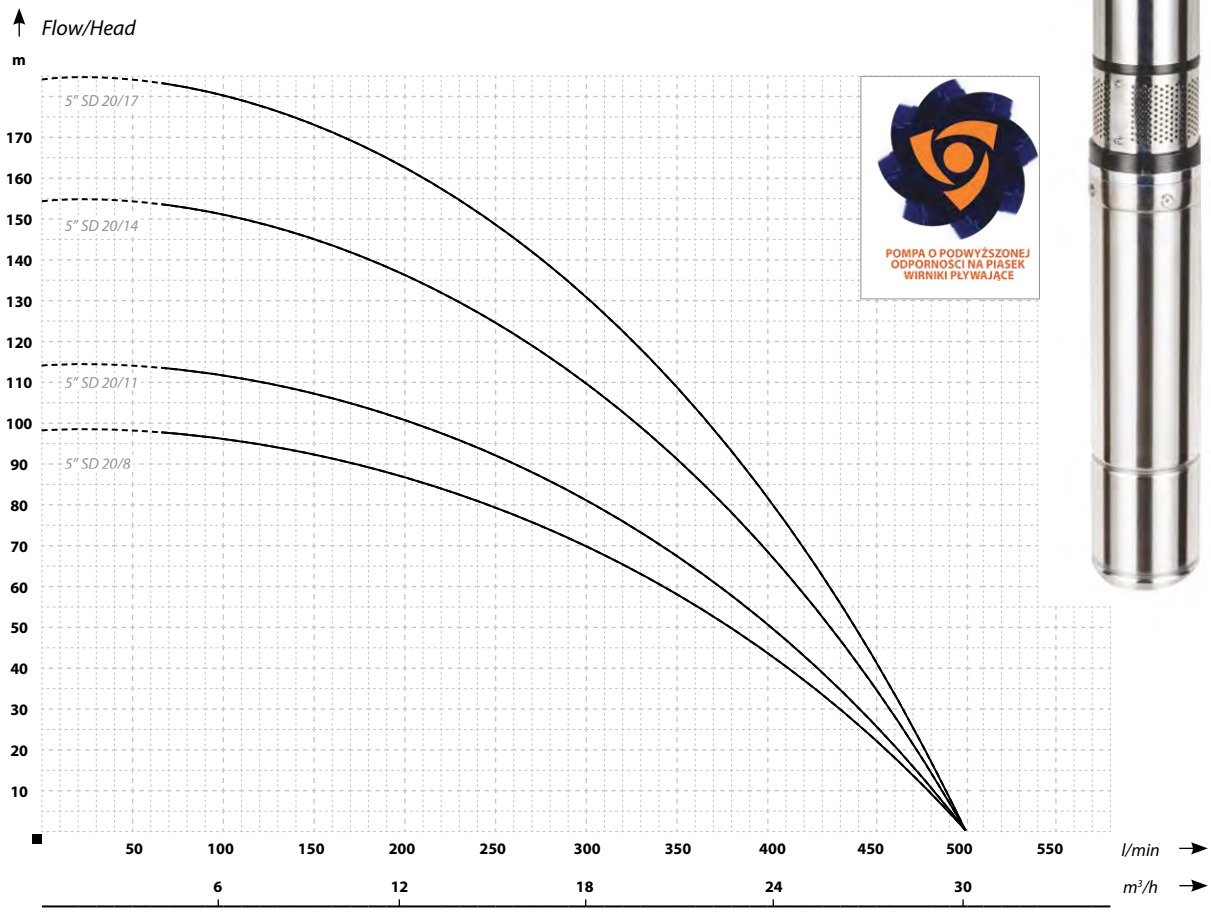
Increased resistance to sand is achieved by using "floating impellers".
Upon request, the cable of any length can be installed.

APPLICATION:
Supply of water to large farms from deep water intakes, garden and orchard irrigation, shrubs and tree nurseries, land drainage/dewatering. Water supply systems, industrial applications.

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

Materials:
- Inlet/outlet: grey cast iron
- 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

Flow/Head



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
5" SD 20/8	99	500	4	400	10,4	3	127/1440	34
5" SD 20/11	115	500	5,5	400	14	3	127/1640	42
5" SD 20/14	155	500	7,5	400	17,5	3	127/1880	50
5" SD 20/17	185	500	9,2	400	21,5	3	127/2040	58

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

6" SD

INCREASED RESISTANCE TO SAND

146 mm multi-stage deep well pumps with increased resistance to sand, intended for minimum 6" wells. The IBO SD series were the first pumps on the market to be known as "sand resistant".

The "sand resistance" is the unquestionable advantage of IBO pumps over competing products due their innovative and rare design with increased resistance to sand, unusual in 6-inch pumps.

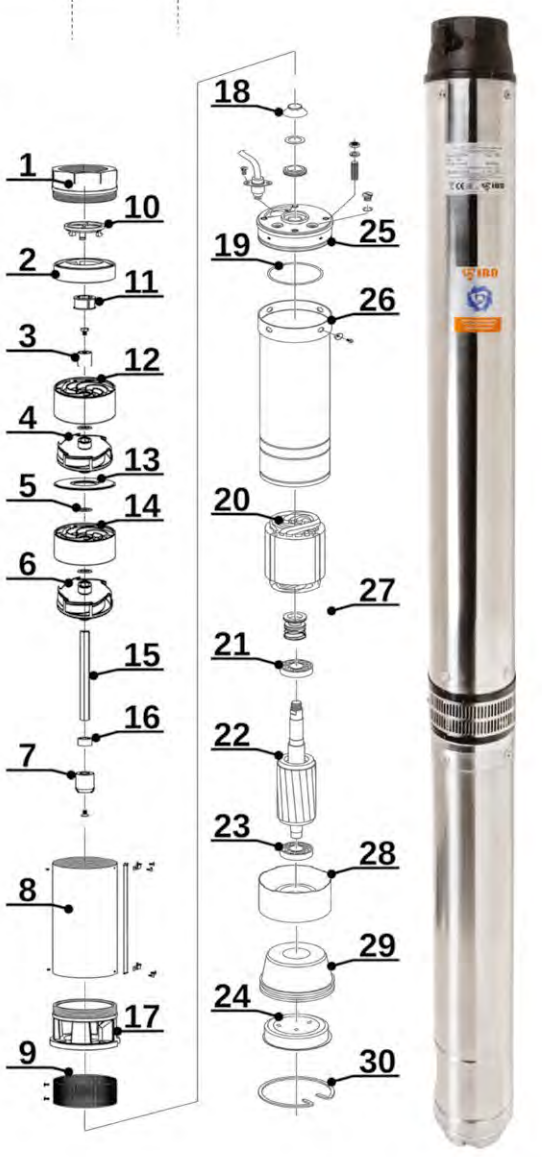
For 6SD 25 pumps, the maximum sand content in water is 5%. Increased resistance to sand is achieved by using "floating impellers". The pumps are available with 6 inch IBO or IBO ITALY motors.

Upon request, the cable of any length can be installed.

APPLICATION:
Supply of water to large farms from deep water intakes, garden and orchard irrigation, shrubs and tree nurseries, land drainage/dewatering. water supply systems, industrial applications.

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

Materials:
- Inlet/outlet: grey cast iron
- 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



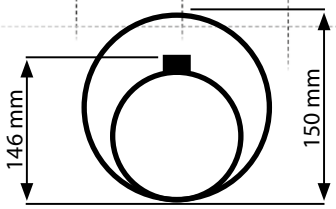
PARAMETERS

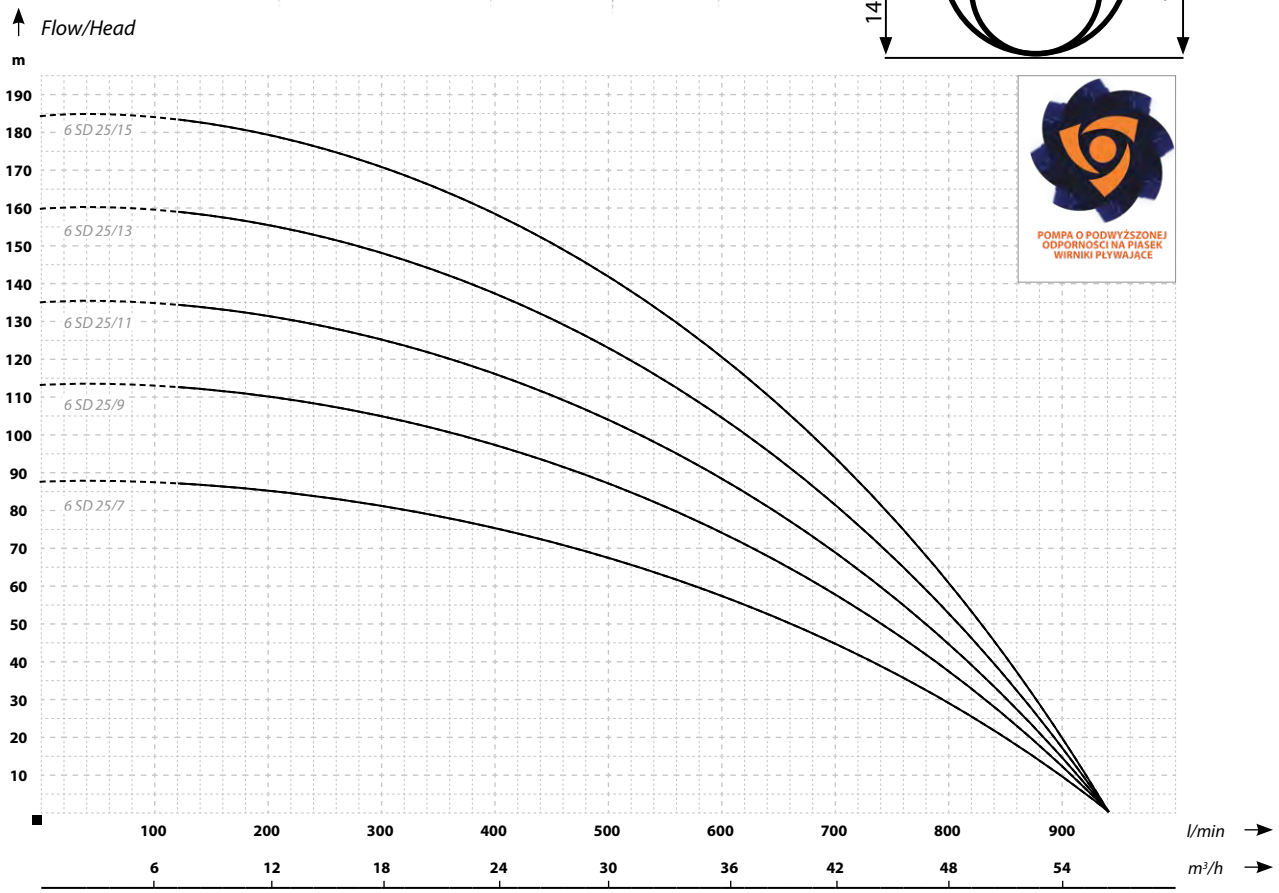
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
6 SD 25/7	89	920	7,5	400	17,5	3	146/1440	52
6 SD 25/9	113	920	9,2	400	21,5	3	146/1650	59
6 SD 25/11	135	920	11	400	24,5	3	146/1880	67
6 SD 25/13	160	920	13	400	27,5	3	146/2090	73
6 SD 25/15	185	920	15	400	31,5	3	146/2300	82
6 SD 30/13	183	650	13	400	27,5	3	146/2150	73
6 SD 30/15	211	650	15	400	31,5	3	146/2400	83
6 SD 45/9	112	1150	15	400	31,5	3	146/1818	81
6 SD 60/7	85	1300	15	400	31,5	3	146/1784	83

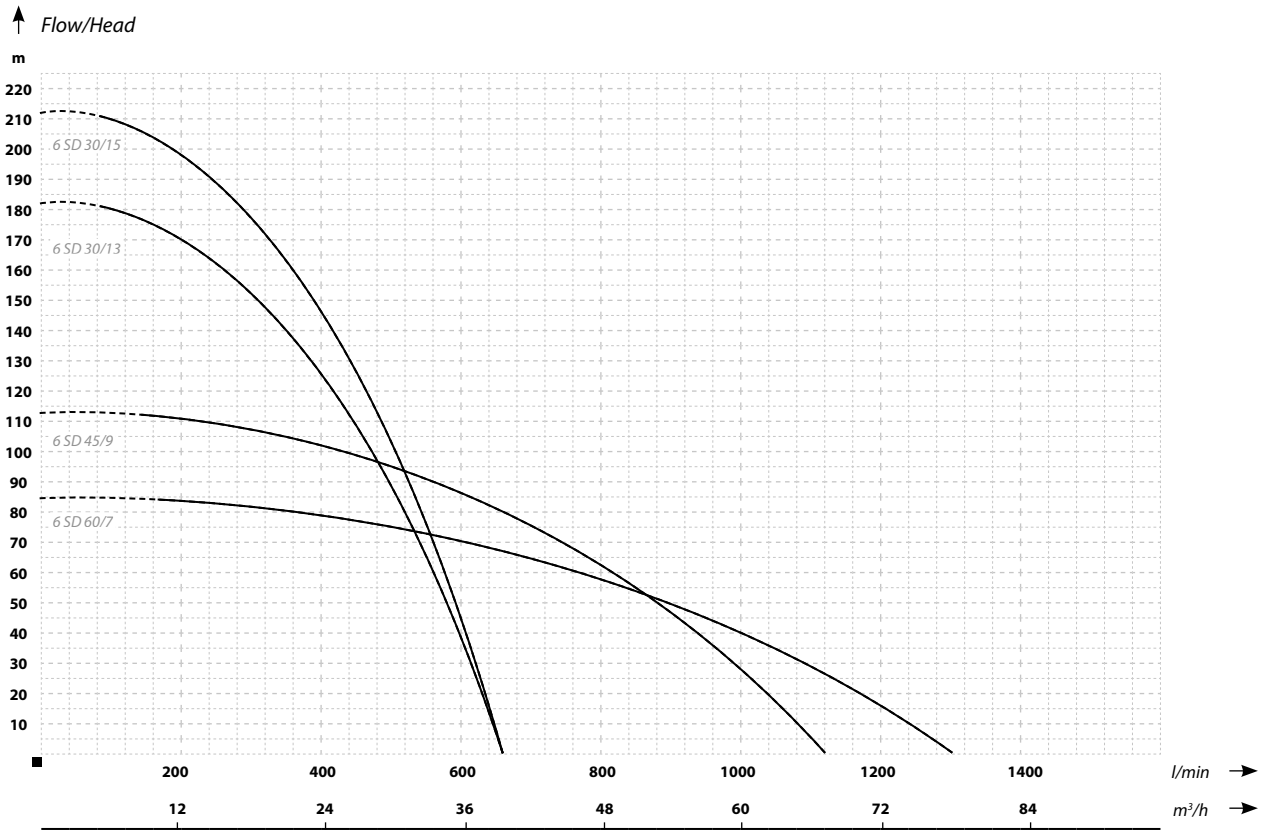
Depending on the production batch, the device parameters may differ from the data provided in the table

6" SD

INCREASED RESISTANCE TO SAND







6" ISP
STAINLESS STEEL PUMPS

Stainless steel multi-stage deep well pumps with diameters of up to 145 mm, designed for pumping water with up to 0.3% sand content from a minimum 6"(150 mm) wells. Robust stainless steel design provides long-term and reliable operation.

The pumps are available with 4 and 6 inch IBO or IBO ITALY motors.
Depending on customer requirements, connected IBO ITALY motors can be oil- or water-cooled.

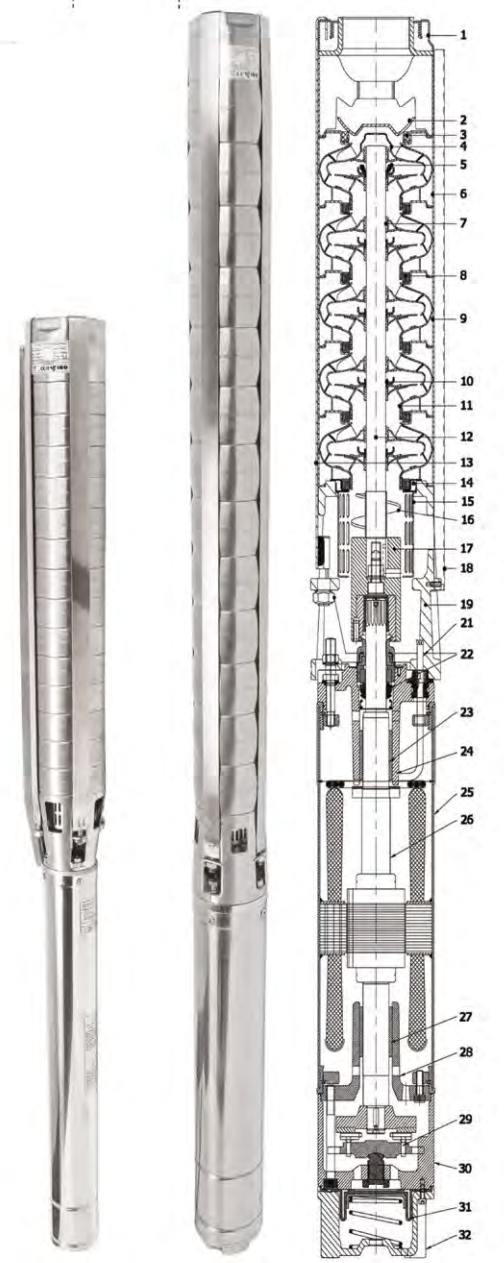
Due to the proven design and very high parameters compared to the diameter of the pumps, they can be used in a very wide range of applications, from supplying water to large farms to industrial solutions.

APPLICATION:
Supply of water to large farms from deep water intakes, garden and orchard irrigation, shrubs and tree nurseries, 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
- Clutch, tie rods and cable protector: 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/water cooling
- Rotational speed of the electric motor: 2850RMP



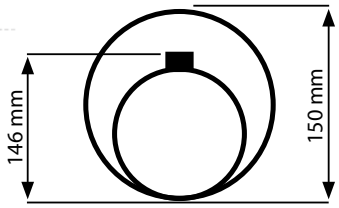


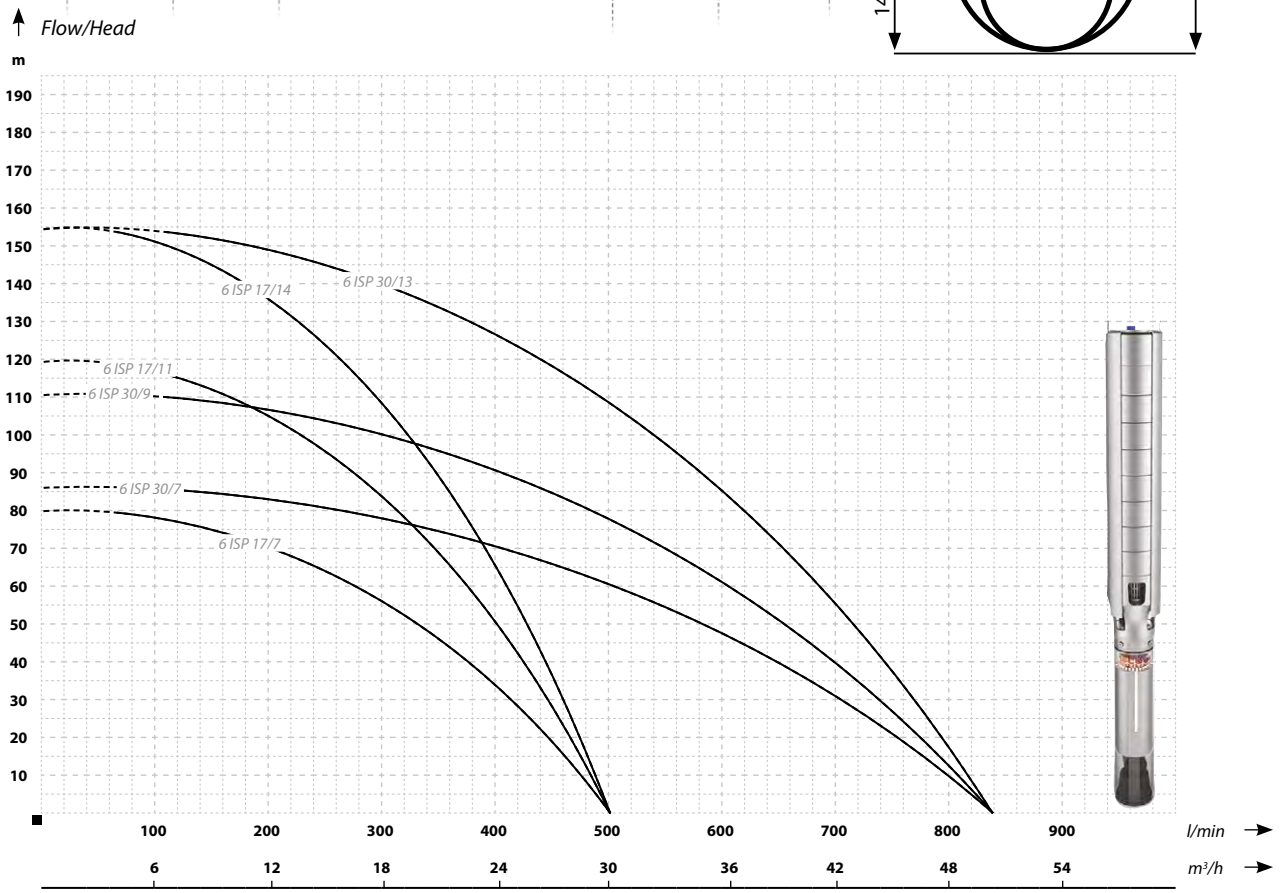
PARAMETERS

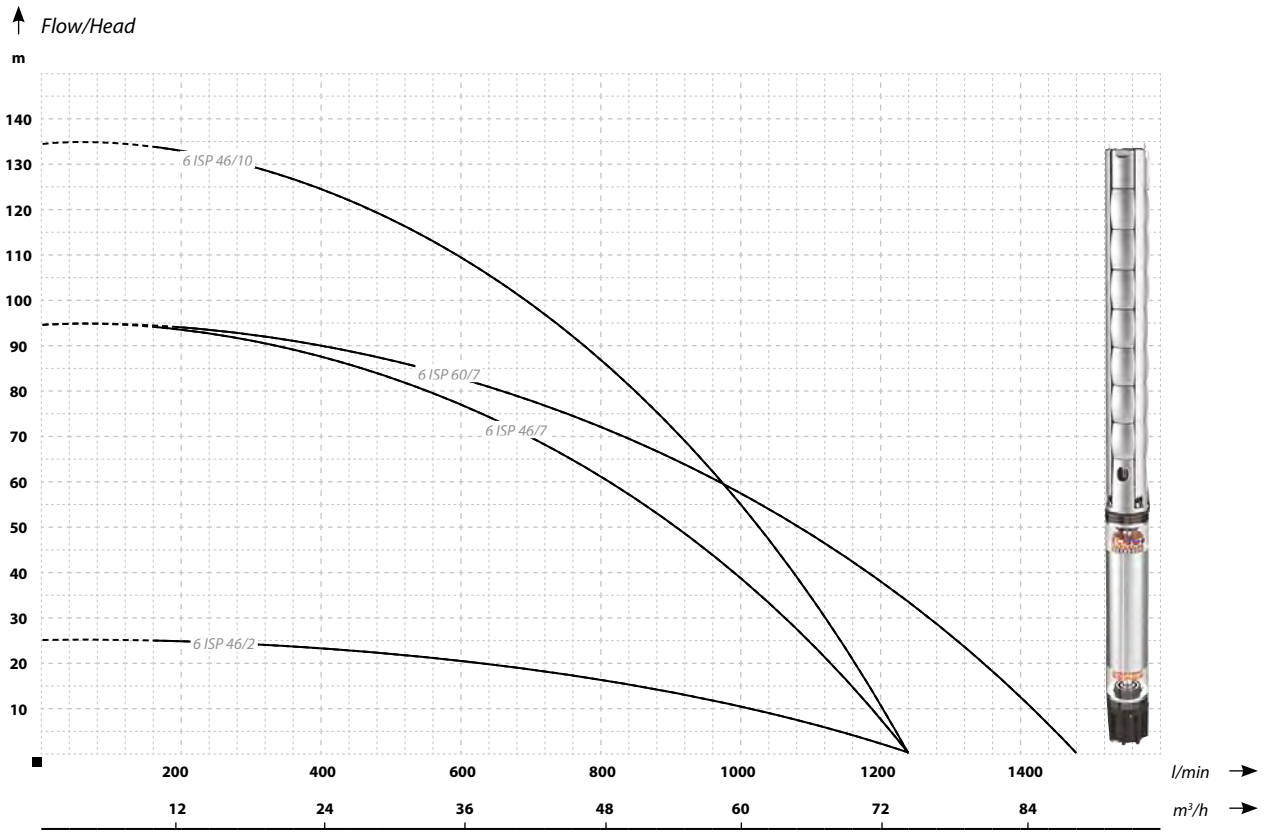
Name	Head (m)	Flow (l/min)	Motor power (kW)	Motor diameter (inch)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Dimensions Dia/H (mm)	Weight (kg)
6 ISP 17/7	80	500	4	4	400	10,2	2½	145/1220	29
6 ISP 17/11	120	500	5,5	4	400	14	2½	145/1480	37
6 ISP 17/14	155	500	7,5	4	400	17,5	2½	145/1770	47
6 ISP 30/7	85	833	7,5	4/6	400	17,5	3	145/1500	56
6 ISP 30/9	110	833	9,2	6	400	21,5	3	145/1720	66
6 ISP 30/13	155	833	13	6	400	27,5	3	145/1920	70
6 ISP 46/2	25	1250	3	4	400	8,2	3	145/960	22
6 ISP 46/7	95	1250	11	6	400	24,5	3	145/1950	65
6 ISP 46/10	135	1250	15	6	400	31,5	3	145/2380	83
6 ISP 60/7	95	1420	15	6	400	31,5	3	145/2040	75

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

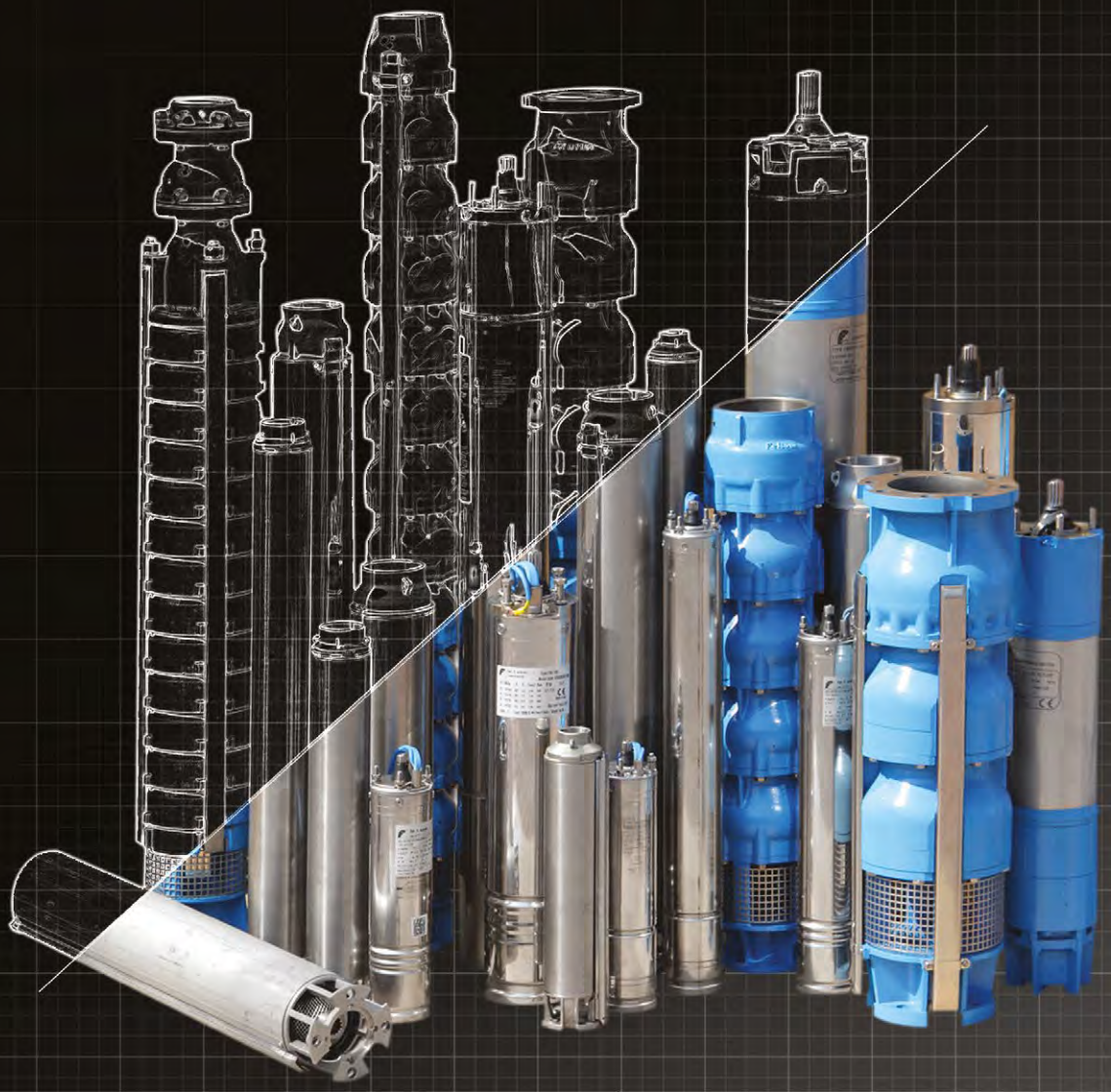
6" ISP
STAINLESS STEEL PUMPS







ITALIAN DEEP WELL PUMPS
ITALIENISCHE TIEFBRUNNENPUMPEN
ITALSKÁ PONORNÁ ČERPADLA
POMPE SUBMERSIBILE ITALIENE
ИТАЛЬЯНСКИЕ ГЛУБИННЫЕ НАСОСЫ



3 LATA GWARANCJI

IBO ITALY FP4

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

WITH DRY RUN PRO TECHNOLOGY

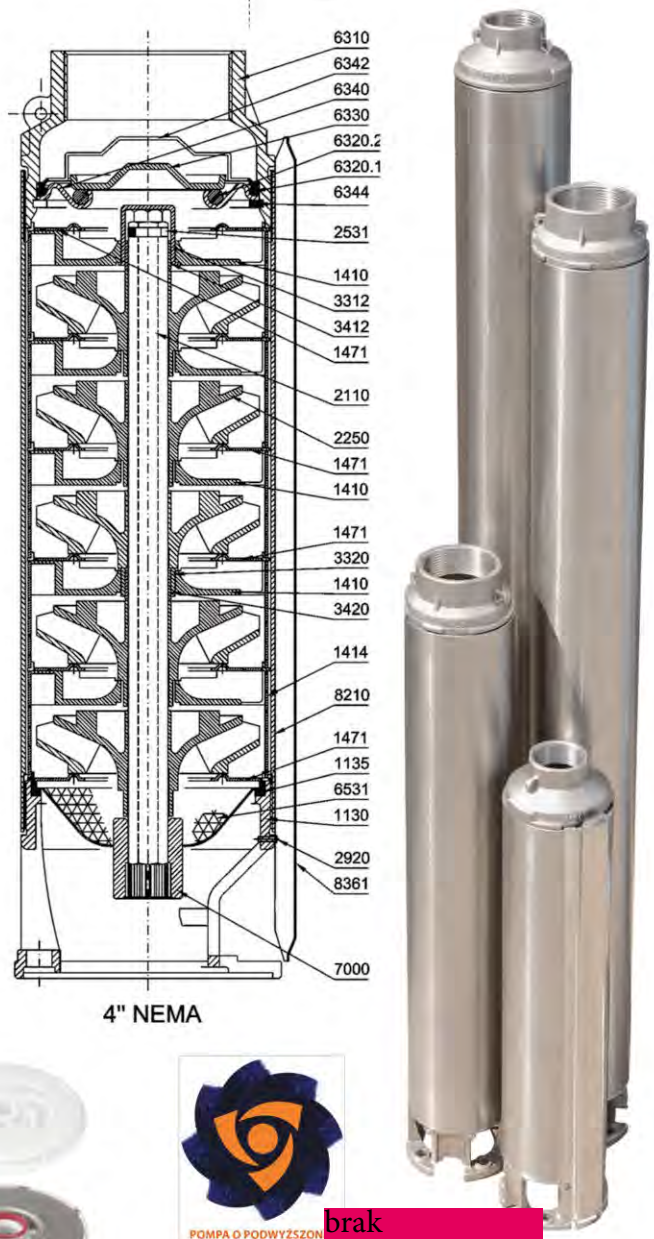
Due to the DRY RUN PRO technology, the FP4 pumps have increased resistance to seizure in case of dry running operation. The design and materials
used make the pump suitable for pumping water for food processing purposes. The pump has been properly certified. Pumps in A, B, D, E
sizes are equipped with radial impellers and 1¼ " outlets while pumps in F, H, L sizes have semi-axial impellers and 2" outlets.

All pumps are supplied with built-in check valves. The maximum outer diameter of the pump including cable protector is 98 mm. The pump is suitable for vertical and horizontal operation.

The FP4 pumps can be used in households and on farms, in water supply systems, irrigation systems, fire extinguishing systems and industrial applications.

The FP4 deep well pumps has been manufactured in the innovative DRY RUN PRO technology by the leading Italian manufacturer of deep well pumps. They are very robust, compact and reliable. The inlet and outlet body
sections are made of AISI 304 stainless steel made by lost-wax technique, which guarantees high chemical resistance in contact with water, as well as product reliability. The pumps design is based on floating rotors moving independently in the Venturi tube chambers.

Due to the innovative design, it is protected by a European patent. This solution guarantees that pumps have unique properties, such as reliable operation in dry running conditions.



4" NEMA

Operating conditions:

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

Materials:

- Inlet/outlet: stainless steel AISI 304
- Non-return valve: stainless steel AISI 304
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Venturi tube cover: stainless steel AISI 304
- Venturi tube: PA
- Impeller: PA
- Sliding sleeve: AI203
- Clutch: stainless steel AISI 316L
- Mechanical seal: Ceramics/Sic/NBR
- Motor: oil cooling
- Rotational speed of the electric motor: 2850RMP



POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK WIRNIKI PŁYWAJĄCE

brak tłumaczenia

technologia DRYRUN PRO

brak tłumaczenia

BACZ DZIAŁANIE I BUDOWĘ POMPY NA:
http://bit.ly/Pompyglebinowe

DANE UŻYTKOWE:

max. wydajność:	30 m³/h
max. wysokość podnoszenia:	340 m
max. moc silnika:	7,5 kW
max. zawartość piasku:	185 g/m³
max. temperatura wody:	35°C
max. ilość cykli włącz / wyłącz na godzinę:	30

możliwość pracy w pozycji poziomej.

brak tłumaczenia

PARAMETERS FP4

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

WITH DRY RUN PRO TECHNOLOGY

3 LATA GWARANCJI

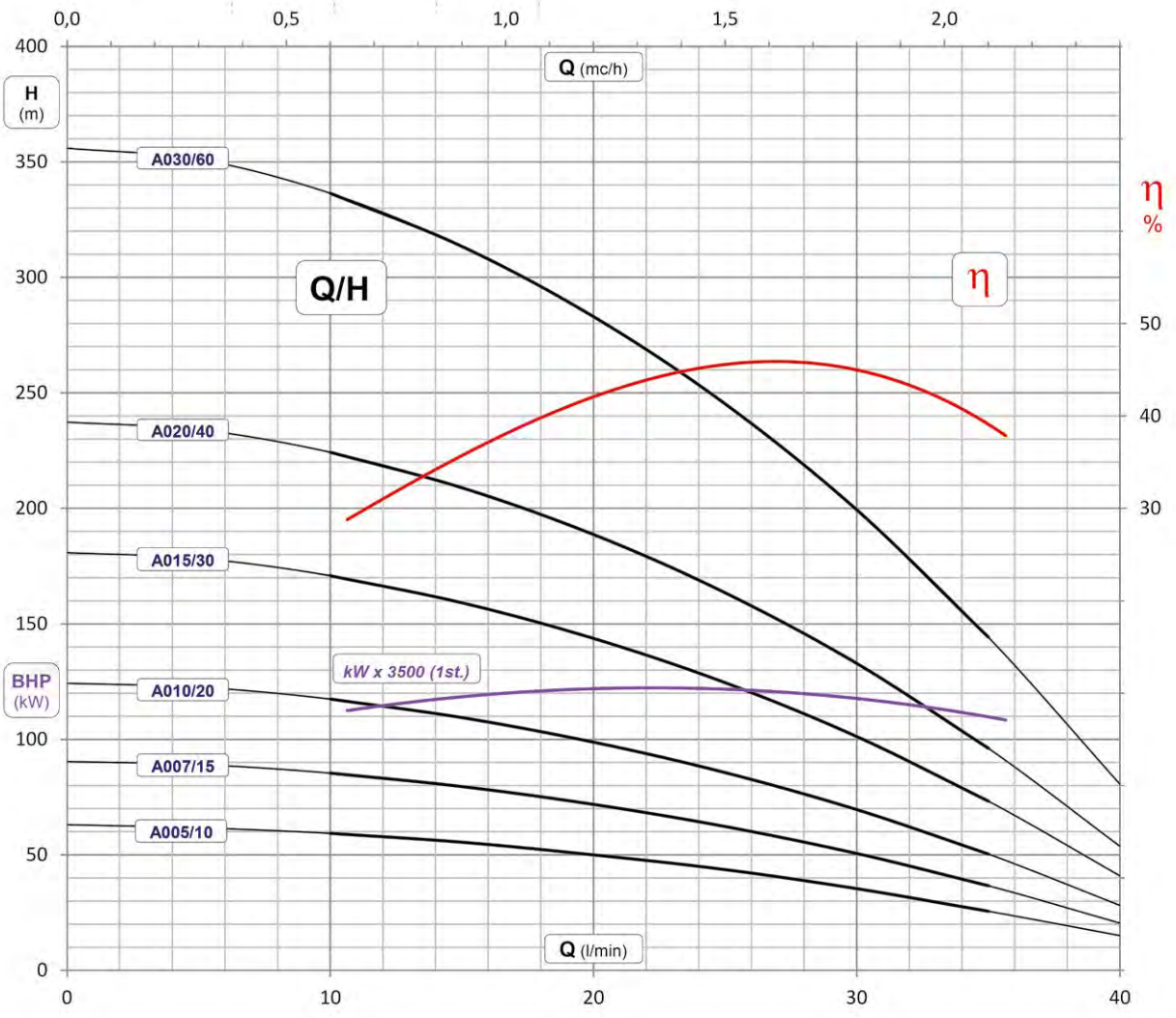
Tolerance in accordance with ISO 9906 Annex A Gr. 2

TYPE	kW		m3/h	0	0,6	0,9	1,2	1,5	1,8	2,1	2,4	2,7	3	3,6	4,2	4,8	5,4	6	6,6	7,2	8,4	9,6	10,8	12	13,5	15	16,5	18	19,5	21	22,5	24	25,5	27
			l/min	0	10	15	20	25	30	35	40	45	50	60	70	80	90	100	110	120	140	160	180	200	225	250	275	300	325	350	375	400	425	450
			l/sec	0	0,17	0,25	0,33	0,42	0,50	0,58	0,67	0,75	0,83	1,00	1,17	1,33	1,50	1,67	1,83	2,00	2,33	2,67	3,00	3,33	3,75	4,17	4,58	5,00	5,42	5,83	6,25	6,67	5,83	6,25
FP4 A005	0,37			63	59	55	50	43	35	26	15																						
FP4 A007	0,55			90	85	80	72	62	51	37	20																						
FP4 A010	0,75			124	117	109	99	86	70	50	28																						
FP4 A015	1,1			181	171	159	144	125	101	73	41																						
FP4 A020	1,5			237	224	209	189	163	133	96	54																						
FP4 A030	2,2			356	336	313	283	245	199	144	81																						
FP4 B005	0,37			47		44	42	39	36	33	28	23	18																				
FP4 B007	0,55			70		65	63	59	54	49	43	35	27																				
FP4 B010	0,75			96		89	85	80	74	67	58	48	37																				
FP4 B015	1,1			140		129	124	117	107	96	83	68	50																				
FP4 B020	1,5			187		174	166	155	142	126	109	87	64																				
FP4 B030	2,2			274		254	243	227	208	185	159	128	94																				
FP4 B040	3			373		346	331	310	284	253	217	175	128																				
FP4 D005	0,37			33				31	30	30	29	27	26	23	18	13																	
FP4 D007	0,55			46				44	43	42	40	38	36	32	25	18																	
FP4 D010	0,75			65				62	61	59	57	55	52	45	36	25																	
FP4 D015	1,1			97				91	89	87	83	80	76	65	52	36																	
FP4 D020	1,5			129				121	119	116	111	106	101	87	69	48																	
FP4 D030	2,2			193				182	178	173	167	160	151	130	103	71																	
FP4 D040	3			257				241	235	228	220	209	198	170	134	90																	
FP4 D055	4			346				325	318	307	296	282	267	229	181	122																	
FP4 E005	0,37			27						26	25	25	24	22	20	17	13	9	5	1													
FP4 E007	0,55			41						38	38	37	36	33	30	25	20	14	8	2													
FP4 E010	0,75			54						51	50	49	48	44	40	33	26	19	11	2													
FP4 E015	1,1			82						77	75	74	72	67	60	50	39	28	16	4													
FP4 E020	1,5			109						102	101	98	96	89	79	67	53	38	22	5													
FP4 E030	2,2			163						154	151	148	144	133	119	100	79	56	32	7													
FP4 E040	3			218						205	201	197	191	178	159	134	105	75	43	10													
FP4 E055	4			299						282	277	271	263	245	218	184	145	103	59	13													
FP4 F007	0,55		H (m)	27								23	22	22	21	20	19	18	17	16	12	8	4										
FP4 F010	0,75			40								34	34	33	32	30	29	28	26	24	18	12	6										
FP4 F015	1,1			60								51	51	49	47	46	44	41	39	35	28	19	9										
FP4 F020	1,5			77								67	66	64	63	60	58	55	52	47	37	25	12										
FP4 F030	2,2			116								101	100	97	94	91	87	83	77	71	55	37	18										
FP4 F040	3			154								135	133	129	125	121	115	110	103	95	74	50	24										
FP4 F055	4			210								187	184	178	173	166	159	150	140	129	101	67	27										
FP4 F075	5,5			266								241	238	232	224	215	203	190	176	160	124	79	31										
FP4 F100	7,5			370								330	325	315	305	294	280	265	248	227	179	118	47										
FP4 H010	0,75			26												24	23	23	22	21	20	18	15	12	8	4							
FP4 H015	1,1			39												35	35	34	33	32	30	27	23	18	12	5							
FP4 H020	1,5			52												47	46	45	44	43	40	36	30	24	16	7							
FP4 H030	2,2			78												71	69	68	67	64	60	53	46	37	23	11							
FP4 H040	3			104												94	93	91	89	86	80	71	61	49	31	14							
FP4 H055	4			144												129	127	125	123	121	113	102	88	69	44	16							
FP4 H075	5,5			197												176	174	171	168	164	154	139	120	94	60	22							
FP4 H100	7,5			262												235	231	228	224	219	206	185	159	126	80	30							
FP4 L020	1,5			36																30	28	27	25	23	21	18	16	13	11	8	4	1		
FP4 L030	2,2			50																42	40	37	35	33	29	25	22	19	15	11	6	1		
FP4 L040	3			72																59	57	53	50	47	42	35	32	27	21	15	9	2		
FP4 L055	4			101																83	79	75	70	65	59	49	45	37	29	21	12	3		
FP4 L075	5,5			137																112	107	101	95	88	80	67	61	50	40	29	17	4		
FP4 L100	7,5			180																148	142	133	125	116	105	88	80	66	53	38	22	5		
FP4 Q015	1,1			24																	20	19	18	17	16	15	14	13	11	10	8	7	5	3
FP4 Q020	1,5			30																	25	24	23	22	20	19	17	16	14	12	10	8	6	4
FP4 Q030	2,2			48																	39	38	36	35	33	30	28	25	22	19	16	13	10	7
FP4 Q040	3			65																	54	52	50	48	45	42	38	35	31	27	23	18	14	9
FP4 Q055	4			89																	74	71	68	65	61	57	52	47	42	36	31	25	19	13
FP4 Q075	5,5			119																	98	95	91	87	82	76	70	63	56	49	41	33	25	17
FP4 Q100	7,5			161																	133	128	123	117	110	102	94	85	76	66	55	45	34	23

IBO ITALY FP4 A

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK WIRNIKI PŁYWAJĄCE



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

PARAMETERS

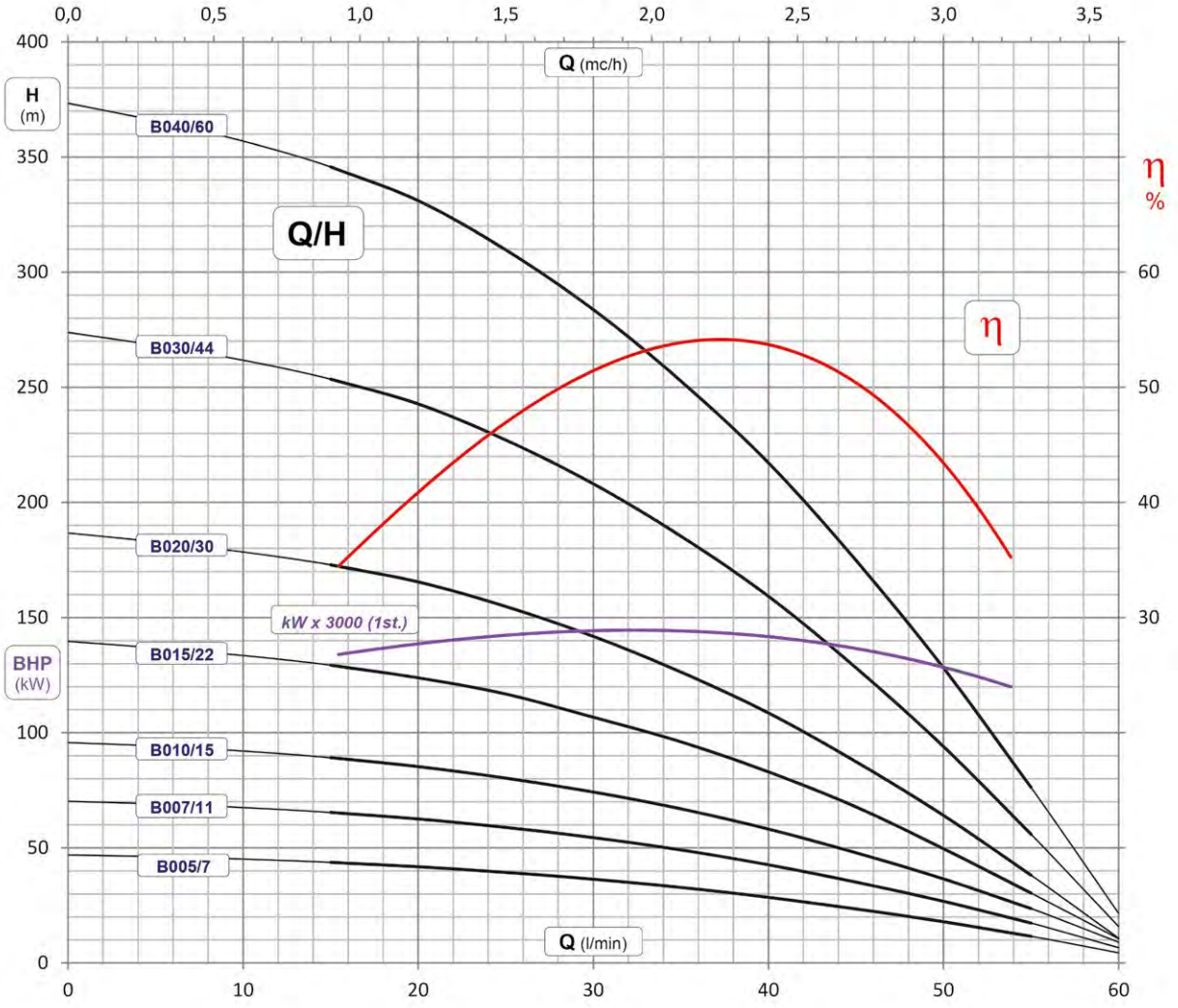
Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
A 005	63	40	0,37	230/400	1¼	3,5	1,36	98/710	11,5	10,8
A 007	91	40	0,55	230/400	1¼	4,7	1,85	98/835	13,6	12,4
A 010	128	40	0,75	230/400	1¼	5,9	2,20	98/977	15,9	14,4
A 015	185	40	1,1	230/400	1¼	8,6	3,00	98/1231	19,3	18,5
A 020	240	40	1,5	230/400	1¼	10,7	4,10	98/1464	22,7	20,7
A 030	348	40	2,2	230/400	1¼	14,8	5,6	98/2013	31,8	26,9

IBO ITALY FP4 B

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK WIRNIKI PŁYWAJĄCE

brak tłumaczenia



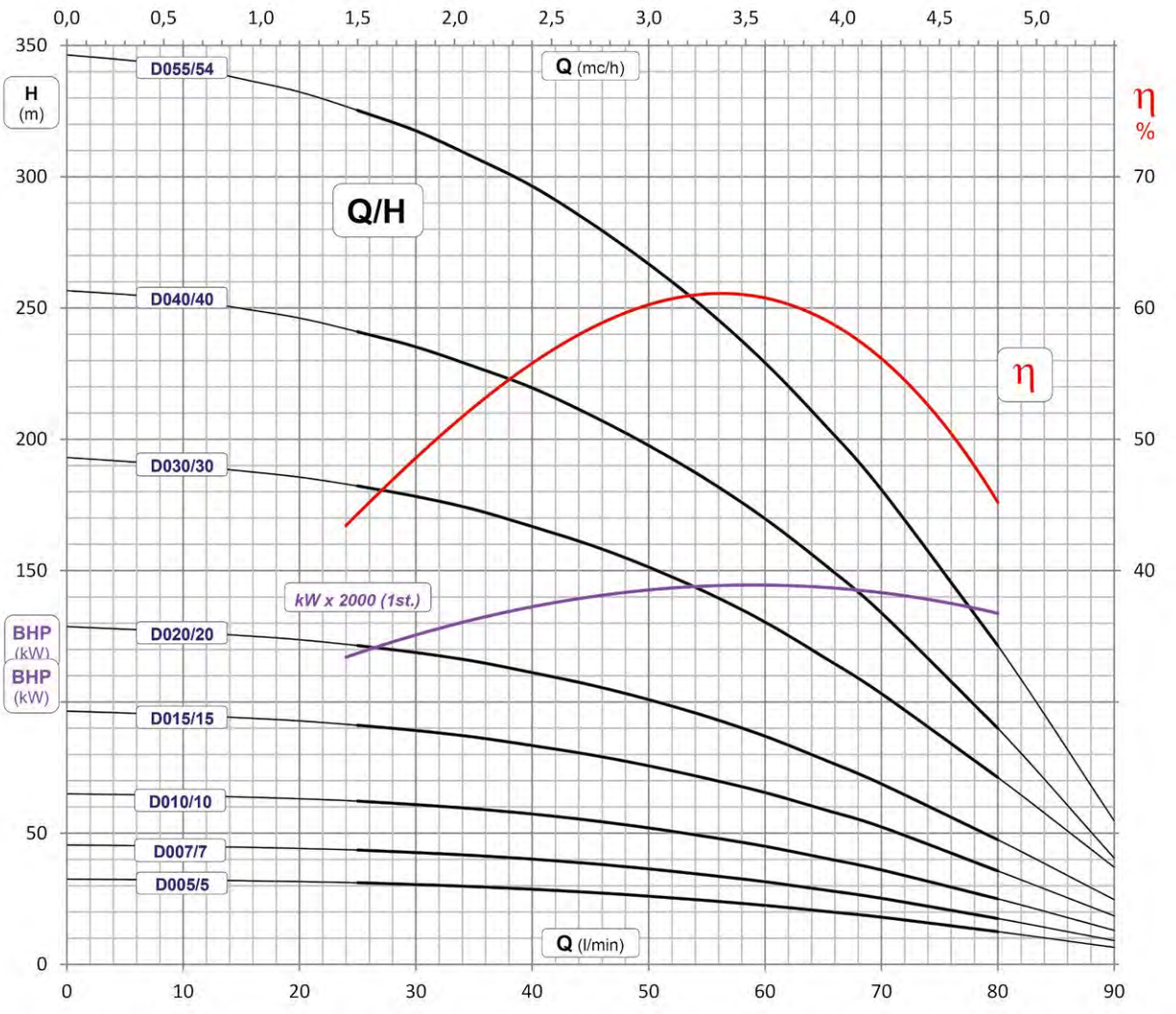
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (cm)	Weight (kg) 230V/400V	
B 005	43	60	0,37	230/400	1¼	3,5	1,5	98/631	10,8	10,1
B 007	70	60	0,55	230/400	1¼	4,7	1,85	98/735	12,7	11,5
B 010	95	60	0,75	230/400	1¼	5,9	2,20	98/838	14,7	13,2
B 015	139	60	1,1	230/400	1¼	8,6	3,00	98/1000	17,2	16,4
B 020	182	60	1,5	230/400	1¼	10,7	4,10	98/1192	20,2	18,2
B 030	260	60	2,2	230/400	1¼	14,8	5,60	98/1602	28,1	23,2
B 040	342	60	3	400	1¼	-	7,50	98/1910	-	7,5

IBO ITALY FP4 D

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE



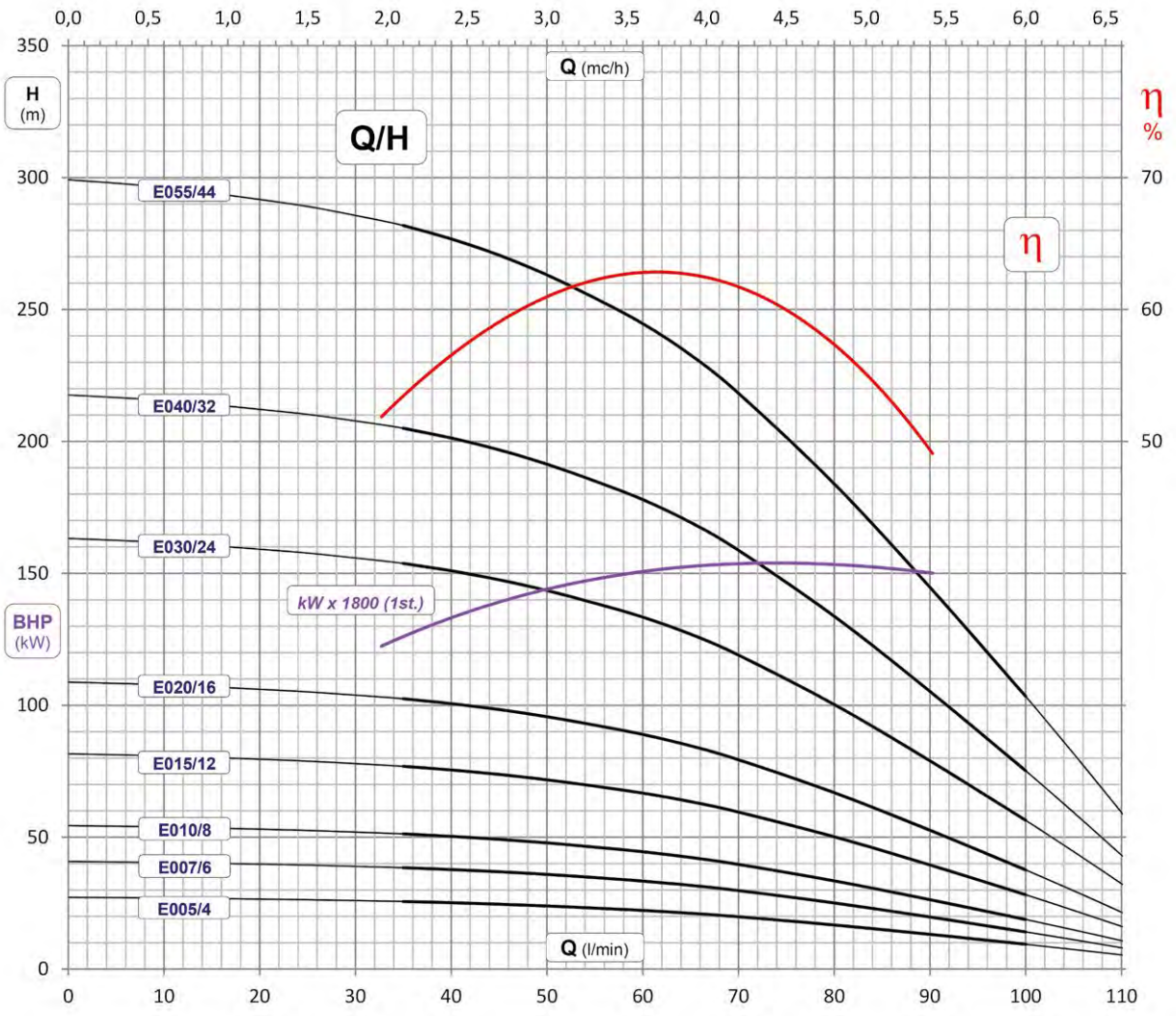
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (cm)	Weight (kg) 230V/400V	
D 005	33	90	0,37	230/400	1¼	3,5	1,35	98/591	10,4	9,7
D 007	46	90	0,55	230/400	1¼	4,7	1,85	98/656	11,9	10,7
D 010	68	90	0,75	230/400	1¼	5,9	2,20	98/738	13,6	12,1
D 015	100	90	1,1	230/400	1¼	8,6	3,00	98/861	15,7	14,9
D 020	133	90	1,5	230/400	1¼	10,7	4,10	98/993	18,1	16,1
D 030	194	90	2,2	230/400	1¼	14,8	5,60	98/1290	24,7	19,8
D 040	261	90	3	400	1¼	-	7,50	98/1479	-	24,8
D 055	338	90	4	400	1¼	-	9,80	98/1824	-	30,9

IBO ITALY FP4 E

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE



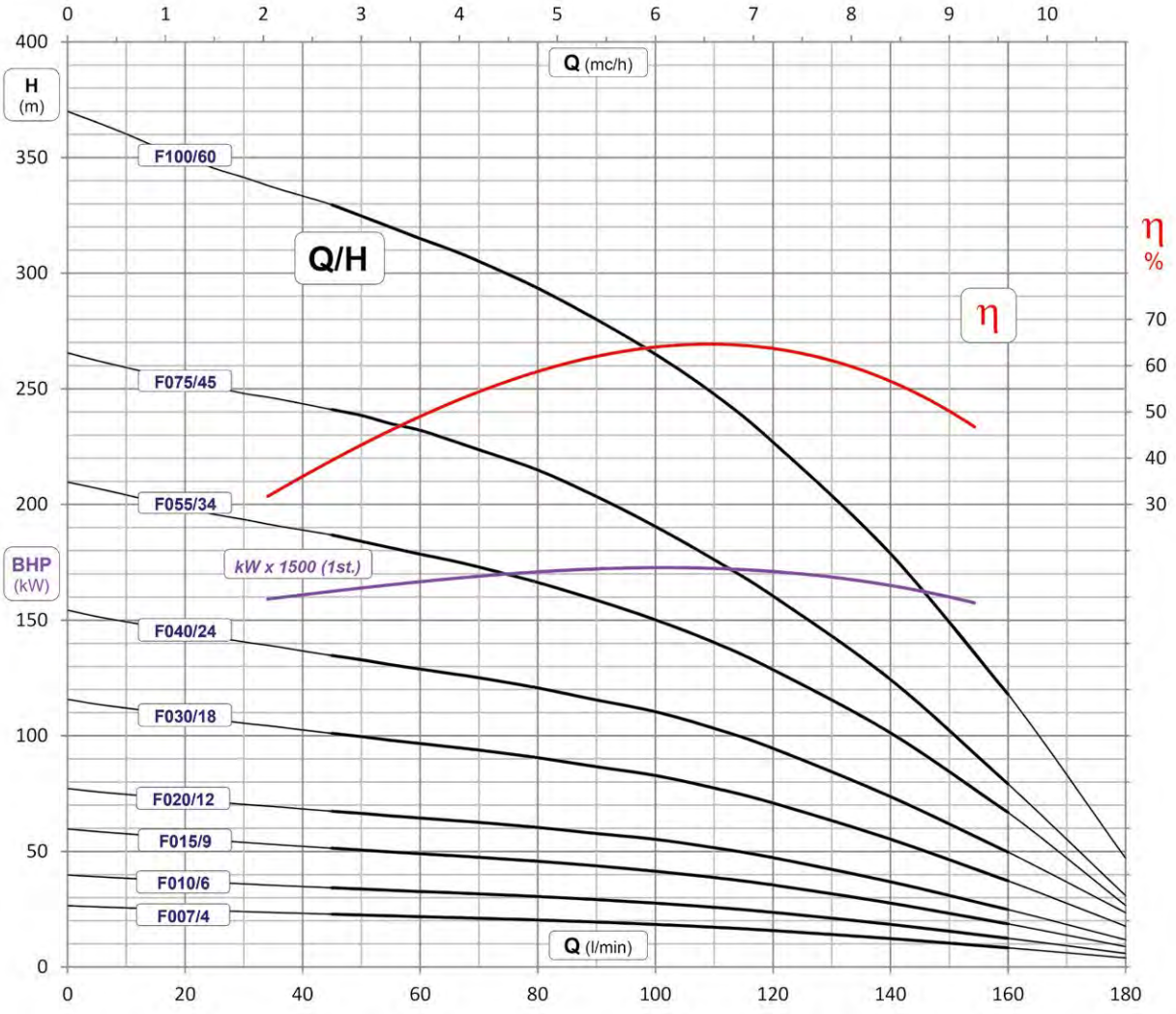
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
E005	29	110	0,37	230/400	1¼	3,5	1,35	98/579	10,3	9,6
E007	44	110	0,55	230/400	1¼	4,7	1,85	98/648	11,8	10,6
E010	58	110	0,75	230/400	1¼	5,9	2,20	98/714	13,3	11,8
E015	85	110	1,1	230/400	1¼	8,6	3,00	98/824	15,2	14,4
E020	114	110	1,5	230/400	1¼	10,7	4,10	98/945	17,5	15,5
E030	170	110	2,2	230/400	1¼	14,8	5,60	98/1219	23,8	18,9
E040	225	110	3	400	1¼	-	7,50	98/1383	-	23,5
E055	303	110	4	400	1¼	-	9,80	98/1712	-	29,3

IBO ITALY FP4 F

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK WIRNIKI PŁYWAJĄCE



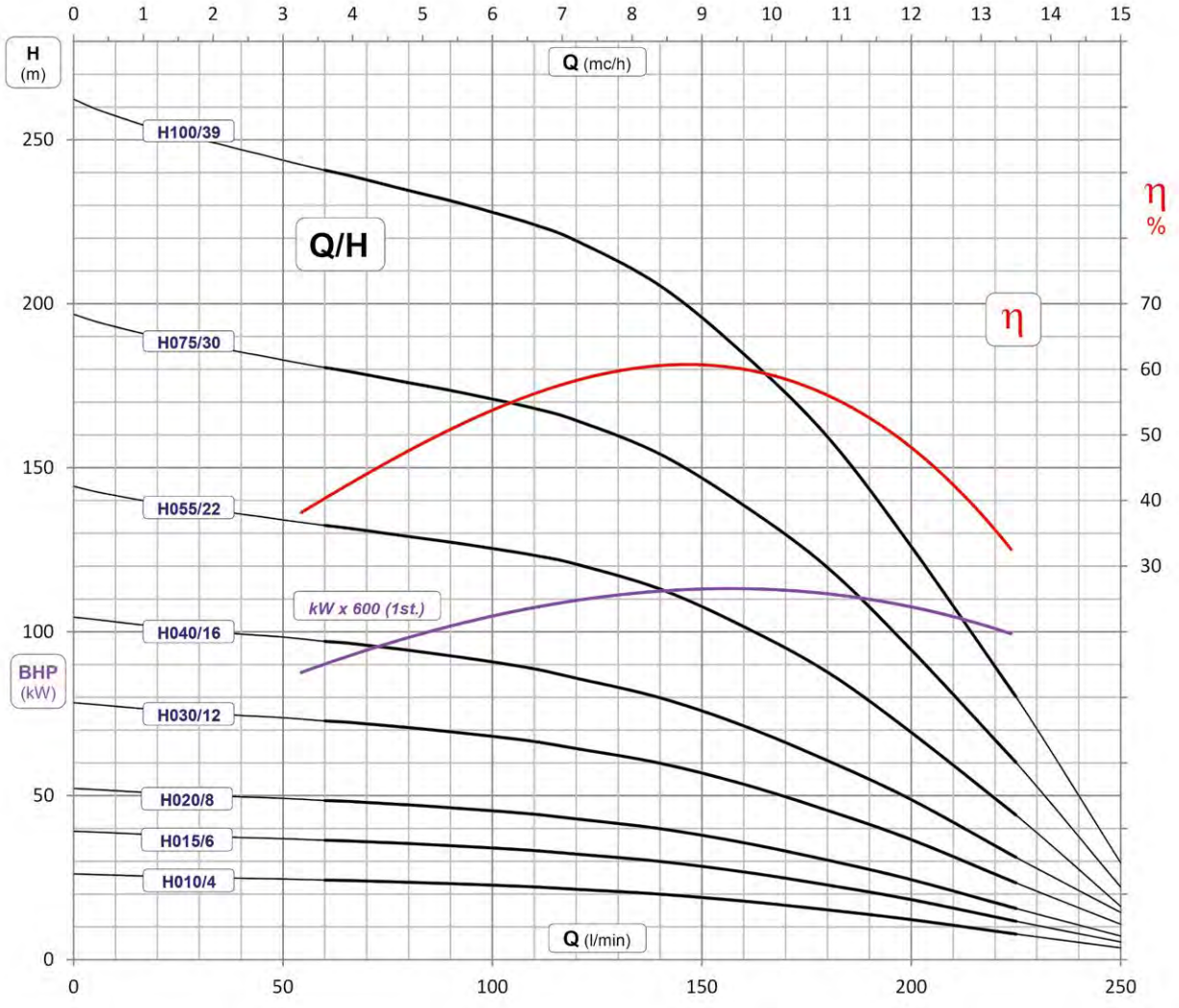
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
F 007	27	180	0,55	230/400	2	4,7	1,85	98/664	11,9	10,7
F 010	40	180	0,75	230/400	2	5,9	2,20	98/760	13,6	12,1
F 015	60	180	1,1	230/400	2	8,6	3,00	98/894	15,7	14,9
F 020	77	180	1,5	230/400	2	10,7	4,10	98/1037	18,1	16,1
F 030	116	180	2,2	230/400	2	14,8	5,60	98/1356	24,7	19,8
F 040	154	180	3	400	2	-	7,50	98/1567	-	24,8
F 055	210	180	4	400	2	-	9,80	98/2000	-	31,4
F 075	266	180	5,5	400	2	-	12,7	98/2537	-	41,5
F 100	370	180	7,5	400	2	-	16,9	98/3176	-	50,5

IBO ITALY FP4 H

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE



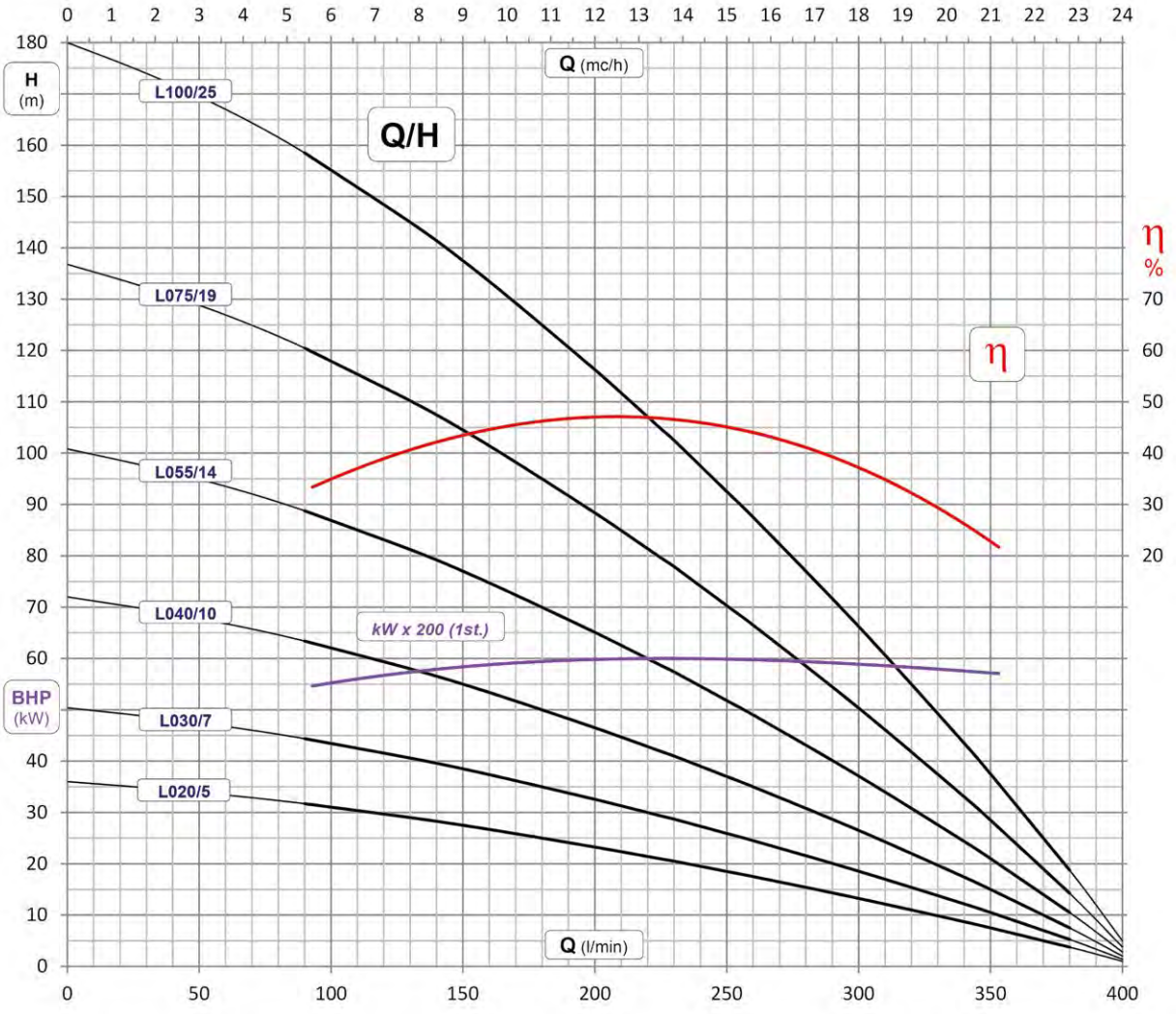
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
H 010	21	250	0,75	230/400	2	5,9	2,20	98/698	13,0	11,5
H 015	35	250	1,1	230/400	2	8,6	3,00	98/801	14,8	14,0
H 020	50	250	1,5	230/400	2	10,7	4,10	98/914	16,9	14,9
H 030	71	250	2,2	230/400	2	14,8	5,60	98/1171	22,9	18,8
H 040	100	250	3	400	2	-	7,50	98/1288	-	21,9
H 055	135	250	4	400	2	-	9,80	98/1624	-	27,7
H 075	192	250	5,5	400	2	-	12,7	98/2044	-	36,4
H 100	251	250	7,5	400	2	-	16,9	98/2523	-	43,9

IBO ITALY FP4 L

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE



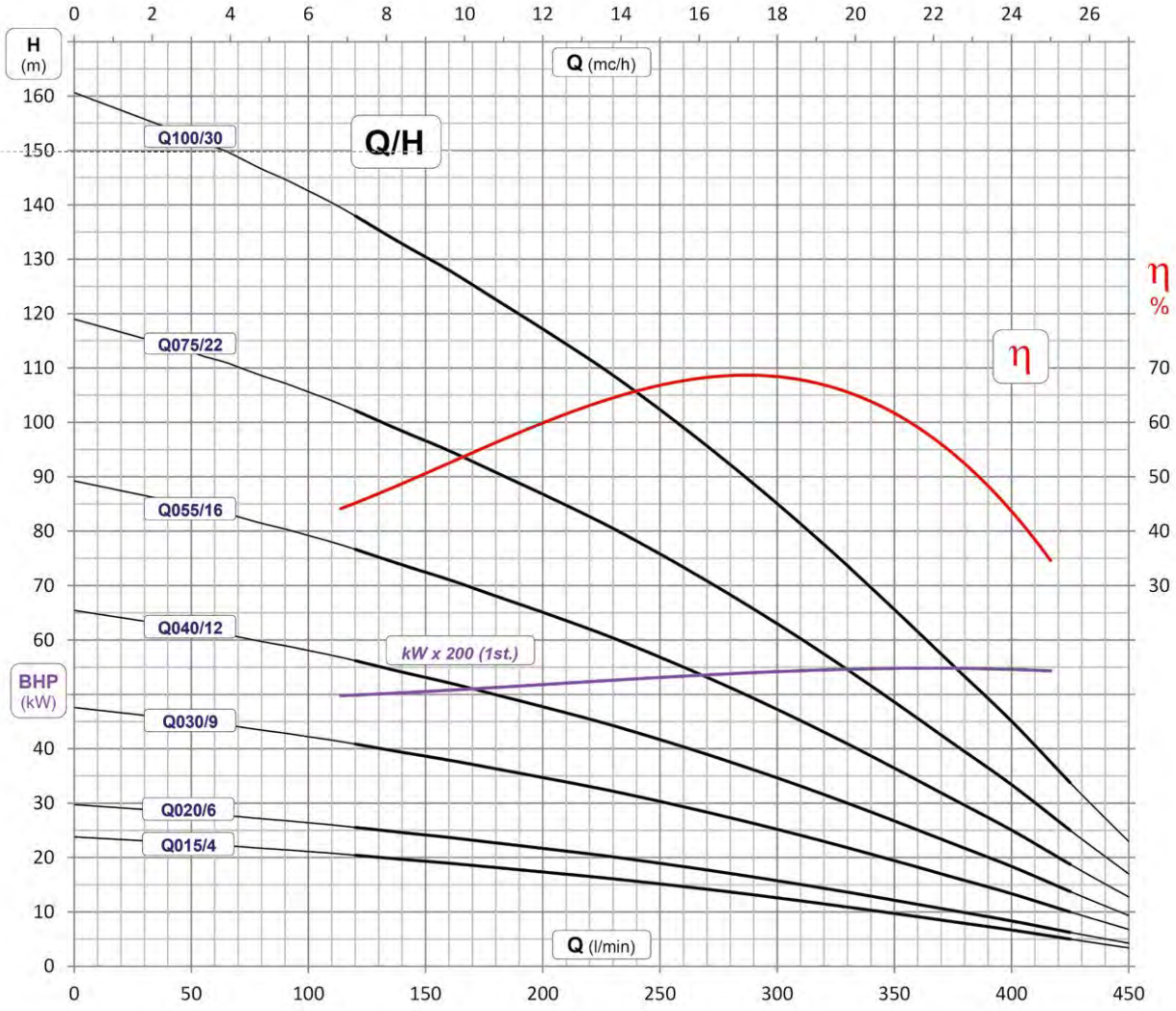
PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
L 020	36	400	1,5	230/400	2	10,7	4,10	98/889	16,3	14,3
L 030	50	400	2,2	230/400	2	14,8	5,60	98/1119	21,8	16,9
L 040	72	400	3	400	2	-	7,50	98/1259	-	20,7
L 055	100	400	4	400	2	-	9,80	98/1567	-	25,8
L 075	137	400	5,5	400	2	-	12,7	98/1971	-	34,0
L 100	180	400	7,5	400	2	-	16,9	98/2417	-	40,7

IBO ITALY FP4 Q

ITALIAN STAINLESS STEEL DEEP WELL PUMPS
WITH DRY RUN PRO TECHNOLOGY

POMPA O PODWYŻSZONEJ ODPORNOŚCI NA PIASEK
WIRNIKI PŁYWAJĄCE



PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (kW)	Voltage (V)	Inlet/outlet (inch)	Amperage (A) 230V/400V		Dimensions Dia/H (mm)	Weight (kg) 230V/400V	
Q15	24	500	1,1	230/400	2	8,6	3,00	98/833	14,8	14,0
Q20	30	500	1,5	230/400	2	10,7	4,10	98/934	16,7	14,7
Q30	48	500	2,2	230/400	2	14,8	5,60	98/1236	22,8	17,9
Q40	65	500	3	230/400	2	-	7,50	98/1396	-	22,0
Q55	89	500	4	400	2	-	9,80	98/1766	-	27,8
Q75	119	500	5,5	400	2	-	12,7	98/2204	-	36,3
Q100	161	500	7,5	400	2	-	16,9	98/2693	-	43,4

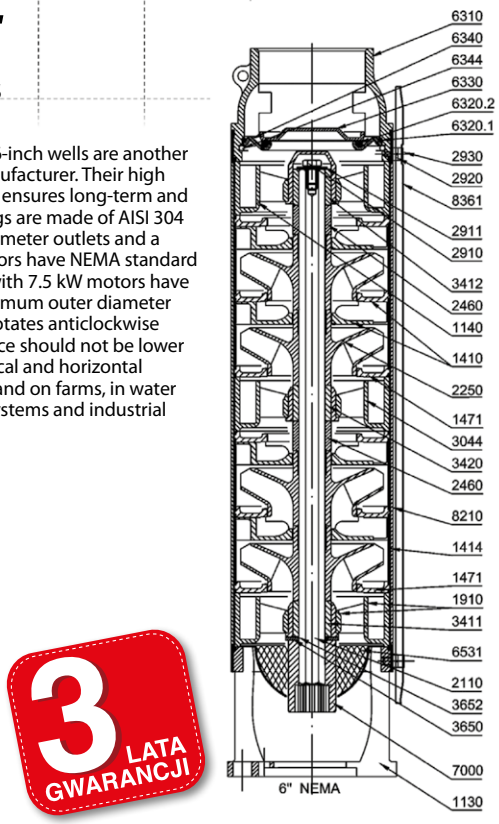
IBO ITALY AP6 F

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

Following the FP4 series, the AP6 pumps intended for 6-inch wells are another very successful design of the leading Italian pump manufacturer. Their high quality and reliable design created by Italian engineers ensures long-term and faultless operation. High quality inlet and outlet castings are made of AISI 304 stainless steel. The pumps are equipped with 3 inch diameter outlets and a built-in check valve. Pumps with dedicated 5.5 kW motors have NEMA standard inlets designed for connecting 4-inch motors. Pumps with 7.5 kW motors have inlets designed for connecting 6-inch motors. The maximum outer diameter including cable protector is 144 mm. The pump shaft rotates anticlockwise when viewed at the outlet from above. The water surface should not be lower than 1 m above the inlet. The pump is suitable for vertical and horizontal operation. The AP6 pumps can be used in households and on farms, in water supply systems, irrigation systems, fire extinguishing systems and industrial applications.

Operating conditions:
- Maximum liquid temperature 350C
- Maximum ambient temperature 350C
- Class F Insulation
- Operating mode - continuous
- Protection - IP68

Materials:
- Inlet/outlet: stainless steel AISI 304
- Non-return valve: stainless steel AISI 304
- Housing: stainless steel AISI 304
- Shaft and rotor: stainless steel AISI 304
- Venturi tube cover: stainless steel AISI 304
- Venturi tube: PA

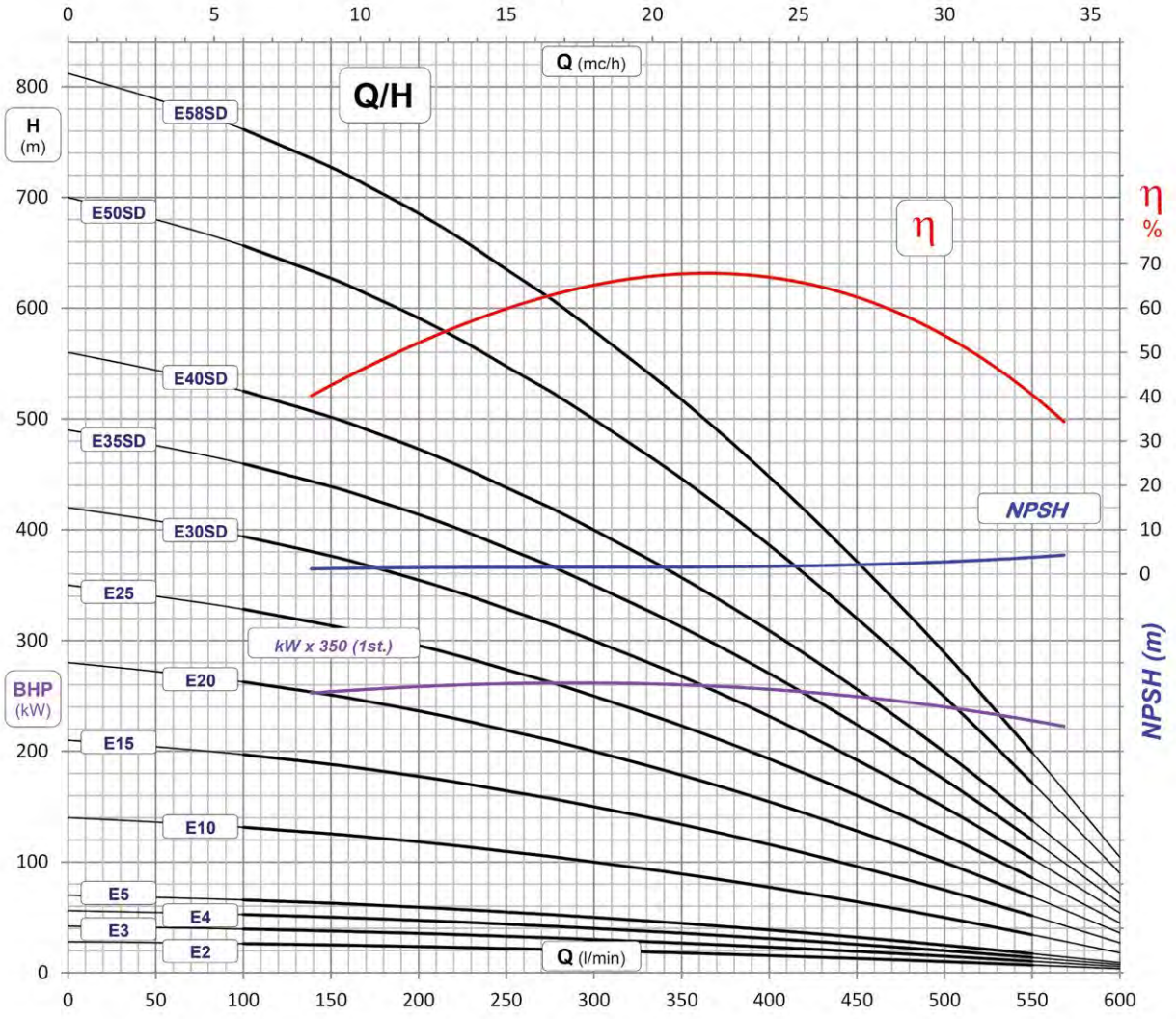




TYP	kW	m3/h	3	4,5	6	7,5	9	10,5	12	13,5	15	16,5	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66
		l/min	50	75	100	125	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
		l/sec	0,83	1,25	1,67	2,08	2,50	2,92	3,33	3,75	4,17	4,58	5,00	5,83	6,67	7,50	8,33	9,17	10,0	10,8	11,7	12,5	13,3	14,2	15,0	15,8	16,7	17,5	18,3
AP6 E2	1,5						25	24	24	23	22	21	20	18	15	13	10	7	4										
AP6 E3	2,2						38	37	35	34	33	32	30	27	23	19	15	10	5										
AP6 E4	3						50	49	47	46	44	42	40	36	31	26	20	14	7										
AP6 E5	4						63	61	59	57	55	53	50	45	39	32	25	17	9										
AP6 E10	7,5						125	122	118	114	110	105	100	89	77	64	50	34	18										
AP6 E15	11						188	183	177	171	164	158	150	134	116	96	75	51	27										
AP6 E20	15						251	244	236	228	219	210	200	178	154	128	100	69	36										
AP6 E25	18,5						314	305	296	285	274	263	250	223	193	160	125	86	45										
AP6 E30SD	22						376	366	355	342	329	315	300	268	232	192	149	103	54										
AP6 E35SD	26						439	427	414	399	383	368	350	312	270	224	174	120	63										
AP6 E40SD	30						502	488	473	456	438	420	400	357	309	256	199	137	72										
AP6 E50SD	37						627	610	591	571	548	525	500	446	386	320	249	172	90										
AP6 E58ST	45						727	707	686	662	635	609	579	517	448	371	289	199	104										
AP6 F3	3								40	39	38	36	35	32	29	25	21	16	10	4									
AP6 F4	4								53	52	50	49	47	43	39	33	27	21	13	5									
AP6 F6	5,5								79	77	75	73	70	65	58	50	41	31	20	8									
AP6 F8	7,5								106	103	100	97	94	86	77	67	55	42	27	11									
AP6 F10	9,2								132	129	125	121	117	108	97	84	69	52	34	14									
AP6 F12	11								159	155	150	146	141	129	116	100	82	63	40	16									
AP6 F14	13								185	180	175	170	164	151	135	117	96	73	47	19									
AP6 F16	15								212	206	200	194	187	172	154	134	110	83	54	22									
AP6 F20	18,5								264	258	251	243	234	215	193	167	137	104	67	27									
AP6 F24	22								317	309	301	291	281	258	232	200	164	125	81	32									
AP6 F28SD	26								370	361	351	340	328	301	270	234	192	146	94	38									
AP6 F32SD	30								423	412	401	388	375	344	309	267	219	167	108	43									
AP6 F40SD	37	H							529	515	501	486	468	430	386	334	274	208	134	54									
AP6 F46SD	45	(m)							608	592	576	558	539	495	444	384	315	240	155	62									
AP6 H2	3												28	27	26	25	23	21	19	16	13	10	7	3					
AP6 H3	4												42	40	39	37	35	32	28	24	20	15	10	4					
AP6 H4	5,5												55	54	52	49	46	42	38	32	26	20	13	6					
AP6 H5	7,5												69	67	65	62	58	53	47	40	33	25	17	7					
AP6 H6	9,2												83	81	78	74	70	64	57	48	39	30	20	8					
AP6 H8	11												111	108	104	99	93	85	76	65	53	40	26	11					
AP6 H9	13												125	121	117	111	104	96	85	73	59	45	30	13					
AP6 H10	15												139	135	130	124	116	106	95	81	66	50	33	14					
AP6 H13	18,5												180	175	169	161	151	138	123	105	86	64	43	18					
AP6 H16	22												222	216	208	198	186	170	151	129	105	79	53	22					
AP6 H19	26												264	256	246	235	220	202	180	154	125	94	63	27					
AP6 H22	30												305	296	285	272	255	234	208	178	145	109	73	31					
AP6 H27SD	37												374	364	350	334	313	287	255	218	178	134	89	38					
AP6 H32SD	45												444	431	415	396	371	340	302	259	211	158	106	45					
AP6 L4	7,5														47	45	42	39	36	33	31	28	26	24	21	18	14	9	4
AP6 L6	9,2														70	68	63	58	54	50	46	43	39	36	32	27	21	14	6
AP6 L7	11														82	79	74	68	63	58	54	50	46	42	37	32	25	16	7
AP6 L8	13														93	90	84	78	72	66	61	57	53	48	43	36	28	18	8
AP6 L9	15														105	101	95	88	81	75	69	64	59	54	48	41	32	21	9
AP6 L12	18,5														140	135	126	117	107	99	92	85	79	72	64	54	42	28	12
AP6 L14	22														163	158	147	136	125	116	108	100	92	84	74	63	49	32	14
AP6 L17	26														198	191	179	165	152	141	131	121	112	102	90	77	60	39	17
AP6 L19	30														221	214	200	185	170	157	146	135	125	114	101	86	67	44	19
AP6 L24S	37														280	270	252	234	215	199	184	171	158	144	128	108	84	55	24
AP6 L28SD	45														326	315	294	272	251	232	215	199	184	168	149	126	98	64	28

IBO ITALY AP6 E

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

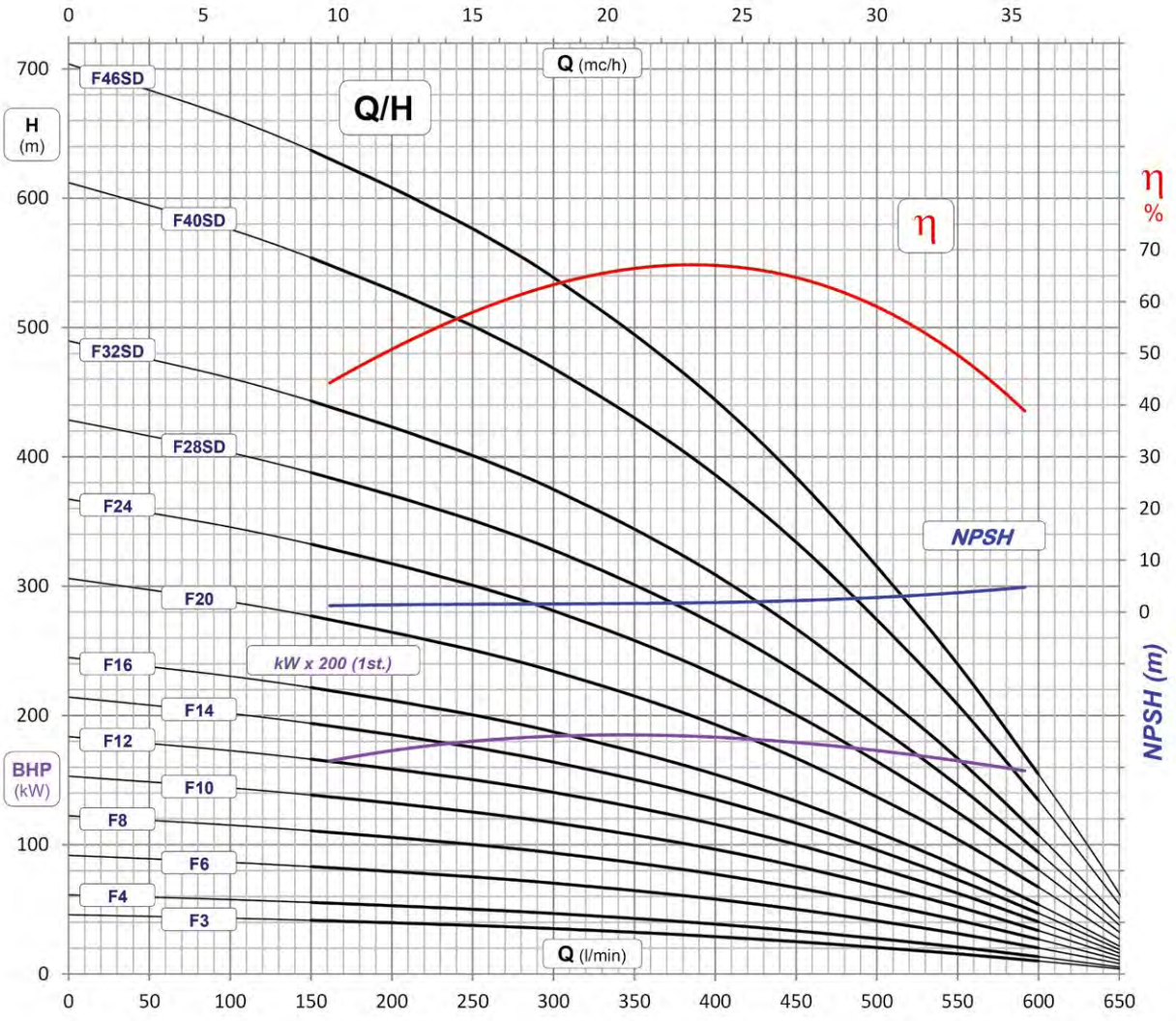


PARAMETERS

Name	Flow (l/min)	Head (m)	Motor power (kW)	Inlet/outlet (inch)	Motor diameter (inch)	L1 (mm)	Weight (kg)	Amperage (A) 400V
AP6 E2	600	28	1,5	3	4	787	19	4,6
AP6 E3	600	42	2,2	3	4	879	22	6,2
AP6 E4	600	56	3	3	4	934	24	7,8
AP6 E5	600	70	3,7	3	4	1.041	26	9,8
AP6 E10	600	140	7,5	3	6	1.542	74	18
AP6 E15	600	210	11	3	6	1.912	90	26
AP6 E20	600	280	15	3	6	2.339	99	34
AP6 E25	600	350	18,5	3	6	2.713	120	41
AP6 E30SD	600	420	22	3	6	3.221	145	49
AP6 E35SD	600	490	26	3	6	3.601	161	57
AP6 E40SD	600	560	30	3	6	4.030	173	67
AP6 E50SD	600	700	37	3	6	4.632	190	74
AP6 E58SD	600	812	45	3	6	5.048	196	95

IBO ITALY AP6 F

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

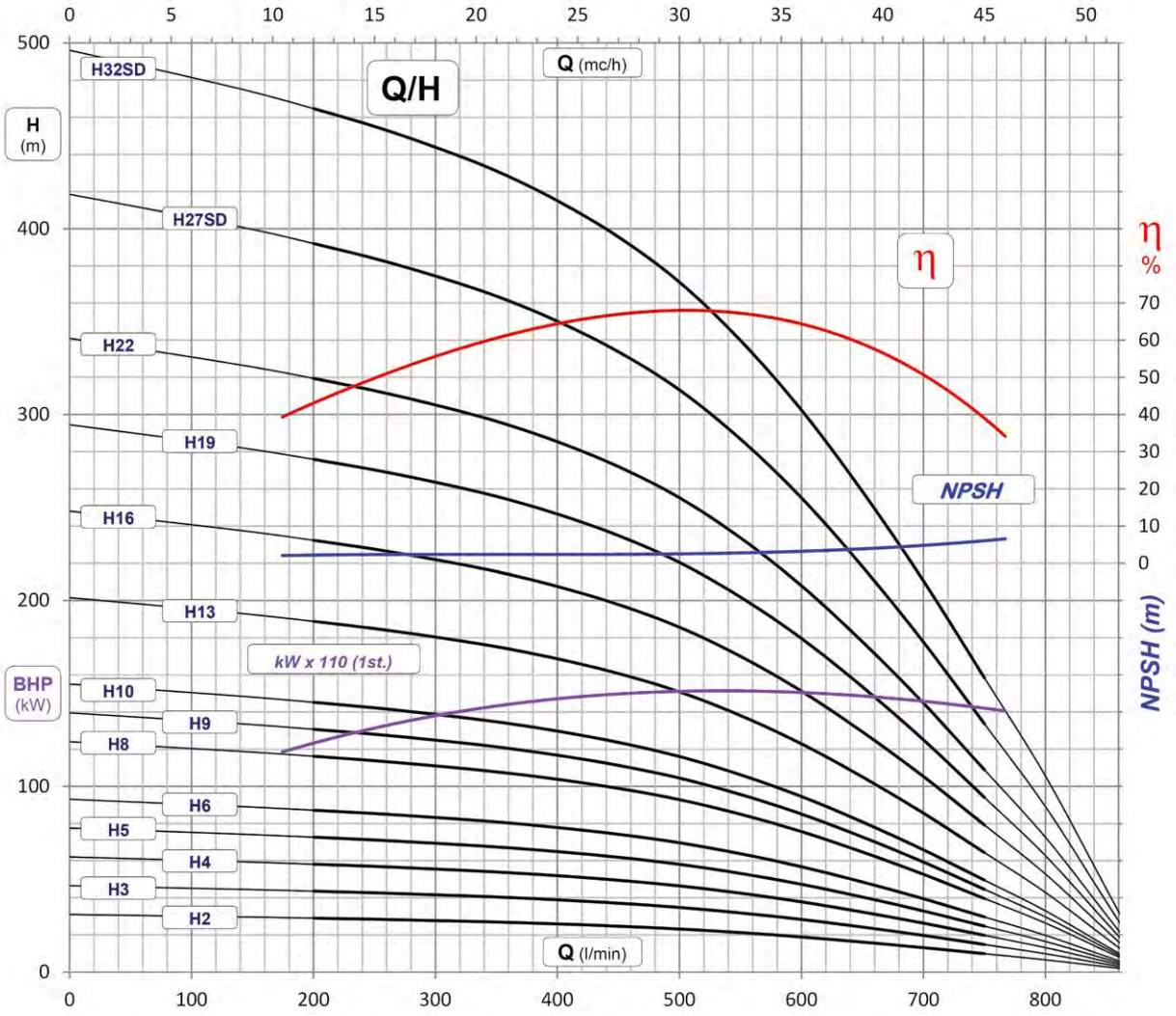


PARAMETERS

Name	Flow (l/min)	Head (m)	Motor power (kW)	Inlet/outlet (inch)	Motor diameter (inch)	L1 (mm)	Weight (kg)	Amperage (A) 400V
AP6 F3	650	46	3	3	4"	879	23	7,8
AP6 F4	650	61	4	3	4"	984	26	9,8
AP6 F6	650	92	5,5	3	4"	1.168	32	13,8
AP6 F8	650	122	7,5	3	6"	1.428	72	18
AP6 F10	650	153	9,2	3	6"	1.582	79	22
AP6 F12	650	184	11	3	6"	1.741	86	26
AP6 F14	650	214	13	3	6"	1.900	93	30
AP6 F16	650	245	15	3	6"	2.059	99	34
AP6 E20	650	306	18,5	3	6"	2.429	115	41
AP6 E24	650	367	22	3	6"	2.741	128	49
AP6 F28SD	650	428	26	3	6"	3.202	153	57
AP6 F32SD	650	490	30	3	6"	3.470	161	67
AP6 F40SD	650	612	37	3	6"	3.958	196	74
AP6 F46SD	650	704	45	3	6"	4.374	182	95

IBO ITALY AP6 H

ITALIAN STAINLESS STEEL DEEP WELL PUMPS

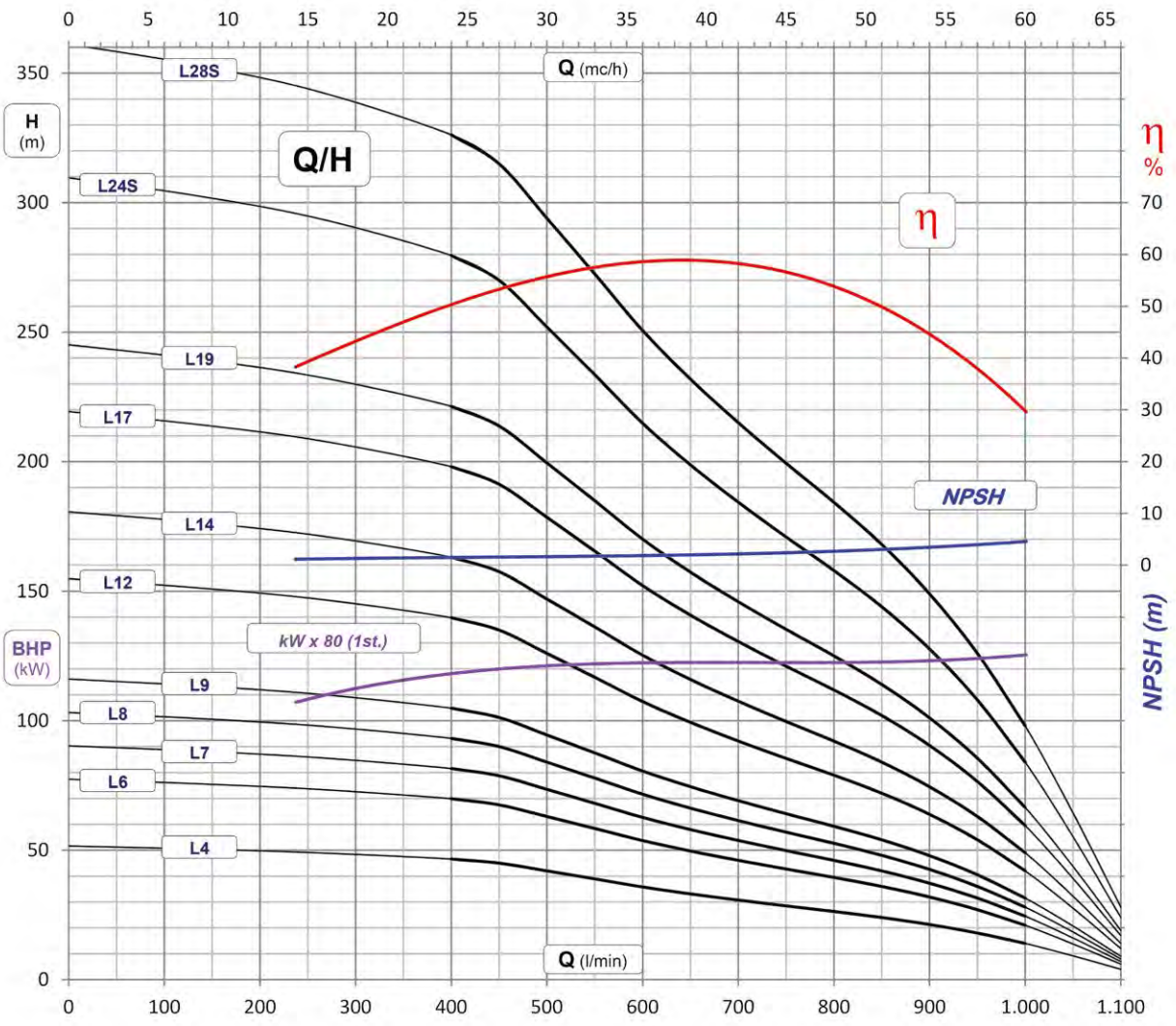


PARAMETERS

Name	Flow (l/min)	Head (m)	Motor power (kW)	Inlet/outlet (inch)	Motor diameter (inch)	L1 (mm)	Weight (kg)	Amperage (A) 400V
AP6 H2	850	31	3	3	4	828	21	7,8
AP6 H3	850	47	4	3	4	936	25	9,8
AP6 H4	850	62	5,5	3	4	1.066	29	13,8
AP6 H5	850	78	7,5	3	6	1.272	68	18
AP6 H6	850	93	9,2	3	6	1.372	74	22
AP6 H8	850	124	11	3	6	1.537	81	26
AP6 H9	850	140	13	3	6	1.642	87	30
AP6 H10	850	155	15	3	6	1.747	92	34
AP6 H13	850	202	18,5	3	6	2.017	106	41
AP6 H16	850	248	22	3	6	2.282	118	49
AP6 H19	850	295	26	3	6	2.609	134	57
AP6 H22	850	341	30	3	6	2.829	141	67
AP6 H27S	850	419	37	3	6	3.160	157	74
AP6 H32SD	850	496	45	3	6	3.672	169	95

IBO ITALY AP6 L

ITALIAN STAINLESS STEEL DEEP WELL PUMPS



PARAMETERS

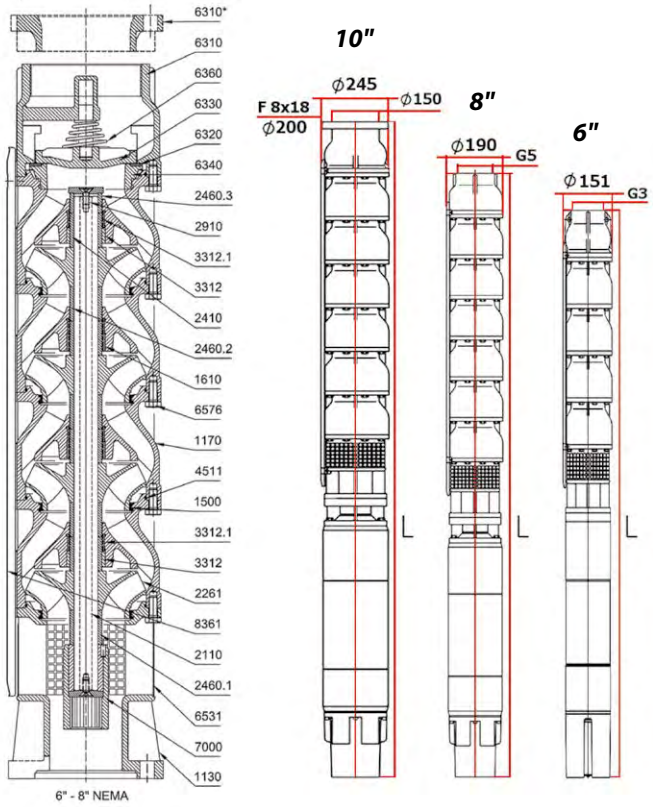
Name	Flow (l/min)	Head (m)	Motor power (kW)	L1 (mm)	Weight (kg)	N	Motor diameter (inch)	Weight (kg)	Amperage (A) 400V
AP6 L4	1100	52	7,5	528	10,2	1.760	6	67	18
AP6 L6	1100	77	9,2	648	12,2	2.640	6	74	22
AP6 L7	1100	90	11	708	12,9	3.070	6	80	26
AP6 L8	1100	103	13	768	13,8	3.510	6	86	30
AP6 L9	1100	116	15	828	14,8	3.950	6	91	34
AP6 L12	1100	155	18,5	1.008	15,7	5.270	6	103	41
AP6 L14	1100	181	22	1.128	17,8	6.140	6	114	49
AP6 L17	1100	219	26	1.308	21,9	7.460	6	128	57
AP6 L19	1100	245	30	1.480	26,8	8.340	6	137	67
AP6 L245	1100	310	37	1.779	37,1	10.530	6	153	74
AP6 L285	1100	361	45	1.959	41,7	12.290	6	158	95

IBO ITALY FX6 / FX8 / FX10

Top quality cast iron deep well pumps made in Italy. Pump hydraulic components are made of cast iron, and upon customer's request brass impellers can be installed. The pump has 5"diameter outlet (DN 125), and depending on the user's requirements, it can be threaded or flanged. For pumps up to 26 kW, 6 "(144 mm) motors are mounted, for 8" pumps over 26 kW, 8 "(193 mm) motors are mounted. Maximum pump diameter including cable protector is: for 6" pumps – 153mm, 8" pumps - 193 mm, 10" pumps – 245mm. Pumps are available on request, delivery time from 7 to 21 days.

APPLICATION:

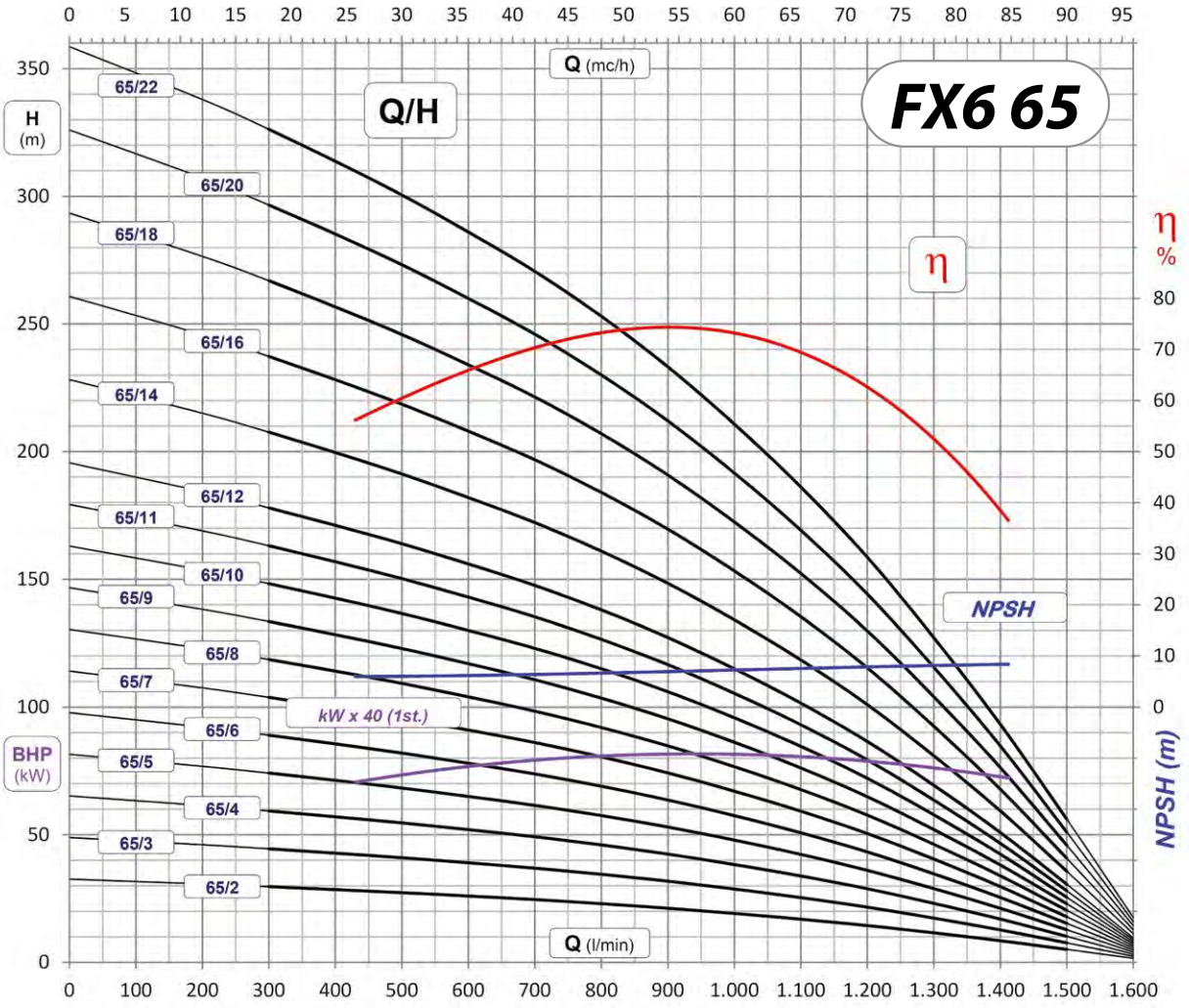
- farms,
- water supply systems,
- irrigation systems,
- fire extinguishing systems,
- industrial applications.





Item	PART NAME	MATERIAL
1130	Inlet	G25 cast iron
1170	Venturi tube	G25 cast iron
1500	Sealing ring II	PU 45 shD / (FX10 bz.B8)
1610	Venturi tube sleeve	PU 45 shD
2110	Shaft	AISI 420
2261	Impeller	G25 cast iron / B.0 bronze
2410	Sliding sleeve	OT58 chrome
2460.1	Bottom bearing retainer	AISI 316
2460.2	Spacing sleeve	AISI 316
2460.3	Upper bearing retainer	AISI 316
2460.4	Spacer	AISI 316
2910	Shaft bolt+washer	AISI 304-420
3312	Bronze sleeve	B8 bronze
3312.1	Sliding sleeve	PU 45 shD
4511	O-ring	NBR
6310	Threaded outlet	G25 cast iron
6310*(FX8)	Flanged outlet	G25 cast iron
6320	Valve sealing	NBR
6330	Non-return valve	G25 cast iron / AISI 304
6340	Valve support	G25 cast iron
6360	Spring	AISI 302
6531	Filter mesh	AISI 304
6576	Bolt	AISI 304
7000	Clutch	AISI 420
8361	Cable protector	AISI 304

IBO ITALY FX 6



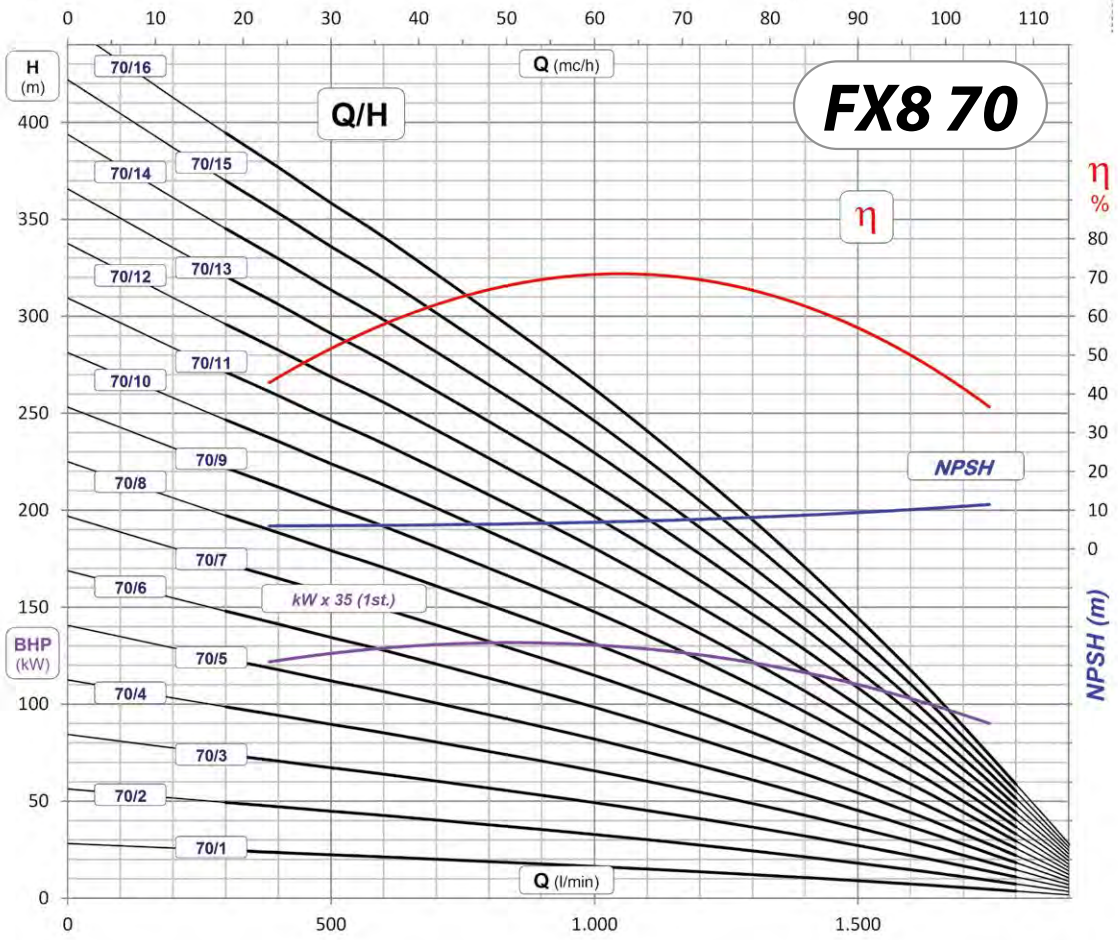
PARAMETERS

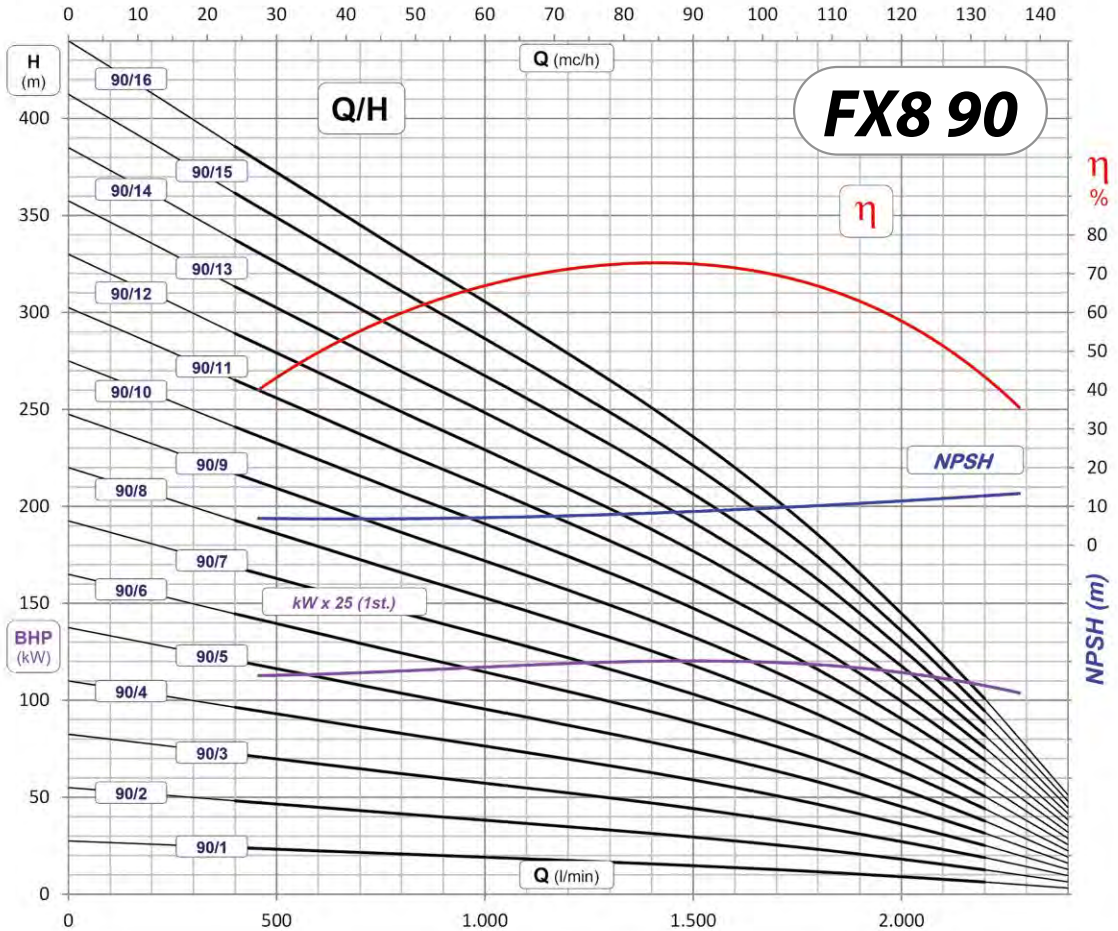
TYPE	kW	Motor diameter	Length L(mm)	Weight (kg)	Ampe-rage (A)		m3/h	0	30	33	36	39	42	45	48	51	54	60	66	72	78	84	90	96
							l/min	0	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1600
							l/sec	0	8,33	9,17	10,0	10,8	11,7	12,5	13,3	14,2	15,0	16,7	18,3	20,0	21,7	23,3	25,0	26,7
FX6 65/2	4	6"	1076	68	11			33	27	27	26	25	25	24	23	22	21	19	17	14	12	8	5	2
FX6 65/3	7,5	6"	1274	86	18			49	41	40	39	38	37	36	35	33	32	29	25	22	17	13	8	2
FX6 65/4	9,2	6"	1422	97	22			65	55	53	52	51	49	48	46	44	42	38	34	29	23	17	10	3
FX6 65/5	11	6"	1575	108	26			82	68	67	65	63	62	60	58	55	53	48	42	36	29	21	13	4
FX6 65/6	13	6"	1728	119	29			98	82	80	78	76	74	72	69	66	64	57	51	43	35	25	15	5
FX6 65/7	15	6"	1881	129	33			114	96	93	91	89	86	83	81	78	74	67	59	50	40	30	18	6
FX6 65/8	18,5	6"	2079,0	146,0	41,0			130	109	107	104	101	98	95	92	89	85	77	68	58	46	34	20	6
FX6 65/9	18,5	6"	2187,0	152,0	41,0		H	147	123	120	117	114	111	107	104	100	95	86	76	65	52	38	23	7
FX6 65/10	22	6"	2380	167	49		(m)	163	137	133	130	127	123	119	115	111	106	96	85	72	58	42	26	8
FX6 65/11	22	6"	2488	173	49			179	150	147	143	139	135	131	127	122	117	105	93	79	64	47	28	9
FX6 65/12	26	6"	2691	189	57			196	164	160	156	152	148	143	138	133	127	115	102	87	69	51	31	10
FX6 65/14	30	6"	2947	205	67			228	191	187	182	177	172	167	161	155	148	134	118	101	81	59	36	11
FX6 65/16	37	6"	3195	223	74			261	219	213	208	202	197	191	184	177	170	153	135	115	92	68	41	13
FX6 65/18	37	6"	3411	235	74			293	246	240	234	228	221	215	207	199	191	172	152	130	104	76	46	14
FX6 65/20	45	6"	3701	247	95			326	273	267	260	253	246	238	230	222	212	192	169	144	116	85	51	16
FX6 65/22	45	6"	3917	259	95			359	301	293	286	278	271	262	253	244	233	211	186	159	127	93	56	18

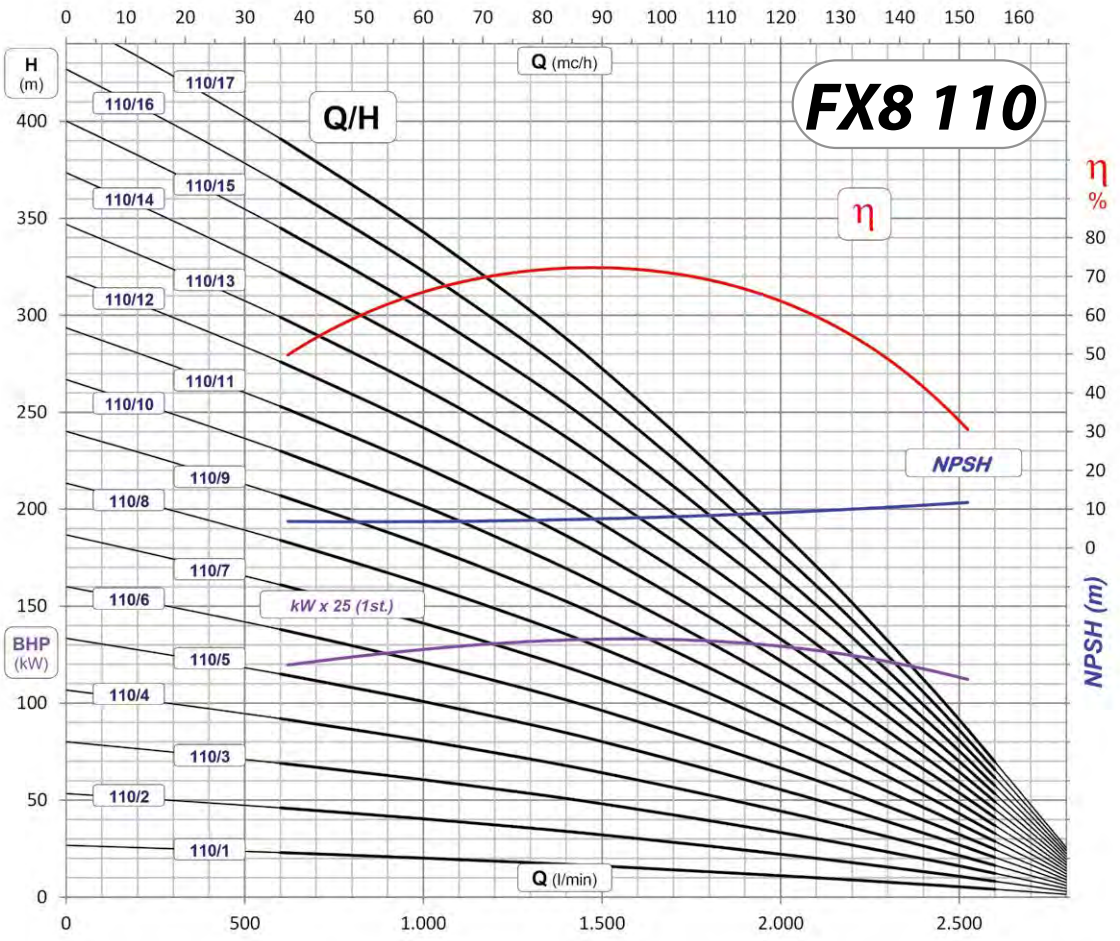
IBO ITALY FX 8

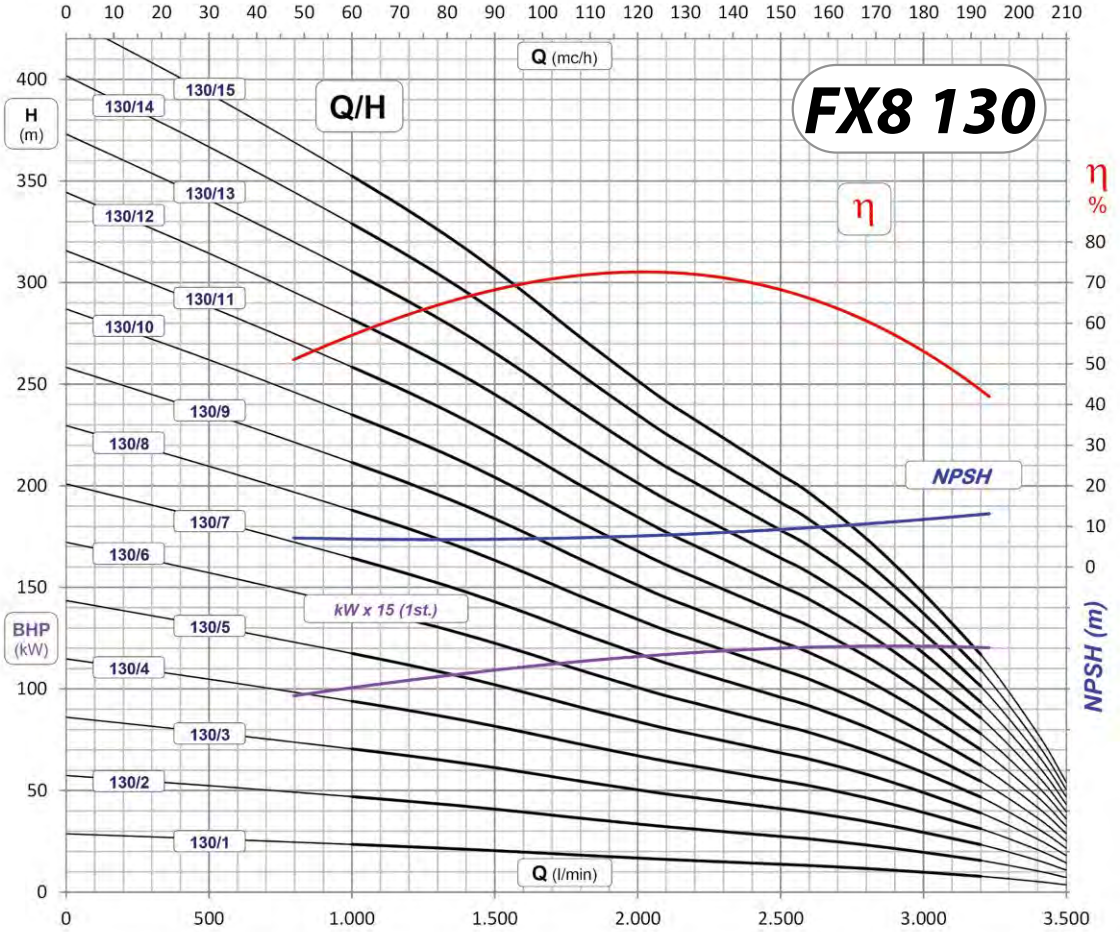
TYP	kW	Ampe-rage (A)	Height L (mm)	Weight (kg)		m3/h	0	36	42	48	54	60	66	72	78	84	90	96	108	120	132	144	156	168	180	192	210
						l/min	0	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400	2600	2800	3000	3200	3500
						l/sec	0	10,0	11,7	13,3	15,0	16,7	18,3	20,0	21,7	23,3	25,0	26,7	30,0	33,3	36,7	40,0	43,3	46,7	50,0	53,3	58,3
FX8 70/1 (6")	4	11	1,052	77			28	21	20	19	18	16	15	14	12	11	9	7	4								
FX8 70/2 (6")	7,5	18	1,276	101			56	43	40	38	35	33	30	27	24	21	18	15	7								
FX8 70/3 (6")	11	26	1,495	122			84	64	60	57	53	49	45	41	37	32	27	22	11								
FX8 70/4 (6")	15	33	1,719	143			113	85	80	76	71	66	60	55	49	43	36	29	15								
FX8 70/5 (6")	18,5	41	1,943	165			141	107	101	95	89	82	76	68	61	53	46	37	18								
FX8 70/6 (6")	22	49	2,162	186			169	128	121	113	106	98	91	82	73	64	55	44	22								
FX8 70/7 (6")	26	57	2,391	207			197	149	141	132	124	115	106	96	85	75	64	51	26								
FX8 70/8	30	62	2,471	257			225	170	161	151	142	131	121	109	98	85	73	59	29								
FX8 70/9	37	77	2,632	274			253	192	181	170	159	148	136	123	110	96	82	66	33								
FX8 70/10	45	87	2,824	297			281	213	201	189	177	164	151	137	122	107	91	74	37								
FX8 70/11	45	87	2,958	308			309	234	221	208	195	180	166	150	134	117	100	81	40								
FX8 70/12	52	100	3,084	339			338	256	241	227	212	197	181	164	146	128	109	88	44								
FX8 70/13	52	100	3,218	350			366	277	261	246	230	213	196	177	159	139	118	96	48								
FX8 70/14	56	110	3,482	367			394	298	282	265	248	230	211	191	171	149	127	103	51								
FX8 70/15	60	113	3,649	383			422	320	302	284	266	246	227	205	183	160	137	110	55								
FX8 70/16	67	130	3,861	410			450	341	322	302	283	262	242	218	195	171	146	118	59								
FX8 90/1	5,5	15	1,092	83			28	22	22	21	20	19	18	17	17	16	15	14	12	9	6						
FX8 90/2	9,2	22	1,316	106			55	45	43	41	40	38	37	35	33	31	30	28	23	18	13						
FX8 90/3	15	33	1,585	131			83	67	65	62	60	57	55	52	50	47	44	41	35	27	19						
FX8 90/4	18,5	41	1,809	154			110	90	86	83	80	76	73	70	66	63	59	55	46	36	25						
FX8 90/5	26	57	2,123	184			138	112	108	104	100	96	91	87	83	78	74	69	58	45	32						
FX8 90/6	30	62	2,203	234			165	135	129	124	119	115	110	105	99	94	89	83	69	54	38						
FX8 90/7	37	77	2,364	253			193	157	151	145	139	134	128	122	116	110	103	96	81	63	44						
FX8 90/8	45	81	2,556	278			220	179	172	166	159	153	146	139	132	125	118	110	93	72	50						
FX8 90/9	45	87	2,69	291			248	202	194	187	179	172	164	157	149	141	133	124	104	81	57						
FX8 90/10	52	100	2,816	324			275	224	216	207	199	191	183	174	166	157	148	138	116	91	63						
FX8 90/11	56	110	3,08	342			303	247	237	228	219	210	201	192	182	172	162	151	127	100	69						
FX8 90/12	60	113	3,247	361			330	269	259	249	239	229	219	209	199	188	177	165	139	109	76						
FX8 90/13	67	130	3,459	389			358	291	280	269	259	248	237	226	215	204	192	179	151	118	82						
FX8 90/14	75	138	3,664	417			385	314	302	290	279	267	256	244	232	220	207	193	162	127	88						
FX8 90/15	75	143	3,798	430			413	336	323	311	299	287	274	261	248	235	221	206	174	136	95						
FX8 90/16	82	158	4,003	459		H (m)	440	359	345	332	318	306	292	279	265	251	236	220	185	145	101						
FX8 110/1	5,5	15	1,092	83			27			22	21	20	19	19	18	17	16	15	13	11	9	7	4				
FX8 110/2	11	26	1,361	111			53			43	42	40	39	37	36	34	32	30	26	22	18	13	8				
FX8 110/3	18,5	41	1,675	142			80			65	63	61	58	56	53	51	48	45	39	33	27	20	12				
FX8 110/4	22	49	1,894	163			107			86	84	81	78	74	71	68	64	60	53	44	36	26	16				
FX8 110/5	26	57	2,123	184			133			108	105	101	97	93	89	85	80	75	66	55	45	33	21				
FX8 110/6	37	77	2,23	240			160			130	125	121	116	112	107	102	96	91	79	67	54	40	25				
FX8 110/7	45	87	2,422	262			187			151	146	141	136	130	125	119	112	106	92	78	63	46	29				
FX8 110/8	45	87	2,556	274			213			173	167	161	155	149	142	136	128	121	105	89	71	53	33				
FX8 110/9	52	100	2,682	304			240			194	188	182	175	167	160	152	144	136	118	100	80	59	37				
FX8 110/10	56	110	2,946	321			267			216	209	202	194	186	178	169	160	151	131	111	89	66	41				
FX8 110/11	60	113	3,113	337			293			238	230	222	213	205	196	186	176	166	144	122	98	73	45				
FX8 110/12	67	130	3,325	364			320			259	251	242	233	223	214	203	192	181	158	133	107	79	49				
FX8 110/13	75	143	3,53	389			347			281	272	262	252	242	231	220	208	196	171	144	116	86	53				
FX8 110/14	82	158	3,735	416			374			303	293	282	272	260	249	237	224	211	184	155	125	92	57				
FX8 110/15	82	158	3,869	427			400			324	314	303	291	279	267	254	240	226	197	166	134	99	62				
FX8 110/16	93	184	4,118	463			427			346	334	323	310	298	285	271	256	241	210	177	143	106	66				
FX8 110/17	93	184	4,252	483			453,56			367,4	355,3	342,9	329,8	316,2	302,6	288	272,3	256	223,3	188,4	151,8	112	70				
FX8 130/1	9,2	22	1,182	94			29					24	23	22	22	21	21	20	18	17	16	14	13	12	10	8	4
FX8 130/2	18,5	41	1,541	131			57					47	46	45	44	42	40	39	36	34	31	29	26	23	20	16	7
FX8 130/3	26,0	57,0	1,9	161,0			86					71	69	67	65	63	61	59	55	50	47	43	39	35	29	23	11
FX8 130/4	37,0	77,0	2,0	215,0			115					94	92	89	87	84	82	79	73	67	62	57	52	46	39	31	14
FX8 130/5	45	87	2,154	237			144					118	115	112	109	106	103	99	91	84	78	72	66	58	49	39	18
FX8 130/6	52	100	2,28	270			172					141	138	134	131	127	123	118	109	101	93	86	79	70	59	47	22
FX8 130/7	60	113	2,577	291			201					165	161	156	152	148	143	138	127	117	109	100	92	81	69	55	25
FX8 130/8	67	130	2,789	318			230					188	184	179	174	169	164	158	146	134	124	114	105	93	78	62	29
FX8 130/9	75	143	2,994	343			258					212	207	201	196	190	184	177	164	151	140	129	118	104	88	70	32
FX8 130/10	82	158	3,199	370			287					235	230	224	218	211	204	197	182	168	155	143	131	116	98	78	36
FX8 130/11	93	184	3,448	405			316					259	253	246	239	232	225	217	200	185	171	157	144	128	108	86	40
FX8 130/12	110	212	3,777	456			344					282	276	268	261	253	245	236	218	201	186	172	157	139	118	94	43
FX8 130/13	110	212	3,911	467			373					306	299	291	283	274	265	256	237	218	202	186	170	151	127	101	47
FX8 130/14	130	242	4,015	623			402					329	321	313	304	295	286	276	255	235	217	200	183	162	137	109	50
FX8 130/15	130	242	4,149	634			431					353	344	335	326	317	307	296	273	252	233	215	197	174	147	117	54




FX8 70
Q/H
η
NPSH
kW x 35 (1st.)
H (m)
BHP (kW)
Q (mc/h)
Q (l/min)
NPSH (m)
η %
70/16
70/15
70/14
70/13
70/12
70/11
70/10
70/9
70/8
70/7
70/6
70/5
70/4
70/3
70/2
70/1
0 10 20 30 40 50 60 70 80 90 100 110
0 500 1.000 1.500
0 50 100 150 200 250 300 350 400
0 10 20 30 40 50 60 70 80


FX8 90
Q/H
η
NPSH
kW x 25 (1st.)
H (m)
BHP (kW)
Q (mc/h)
Q (l/min)
NPSH (m)
η %
90/16
90/15
90/14
90/13
90/12
90/11
90/10
90/9
90/8
90/7
90/6
90/5
90/4
90/3
90/2
90/1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140
0 500 1.000 1.500 2.000
0 50 100 150 200 250 300 350 400
0 10 20 30 40 50 60 70 80


FX8 110
Q/H
η
NPSH
kW x 25 (1st.)
H (m)
BHP (kW)
Q (mc/h)
Q (l/min)
NPSH (m)
η %
110/17
110/16
110/15
110/14
110/13
110/12
110/11
110/10
110/9
110/8
110/7
110/6
110/5
110/4
110/3
110/2
110/1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160
0 50 100 150 200 250 300 350 400
0 500 1.000 1.500 2.000 2.500
0 10 20 30 40 50 60 70 80

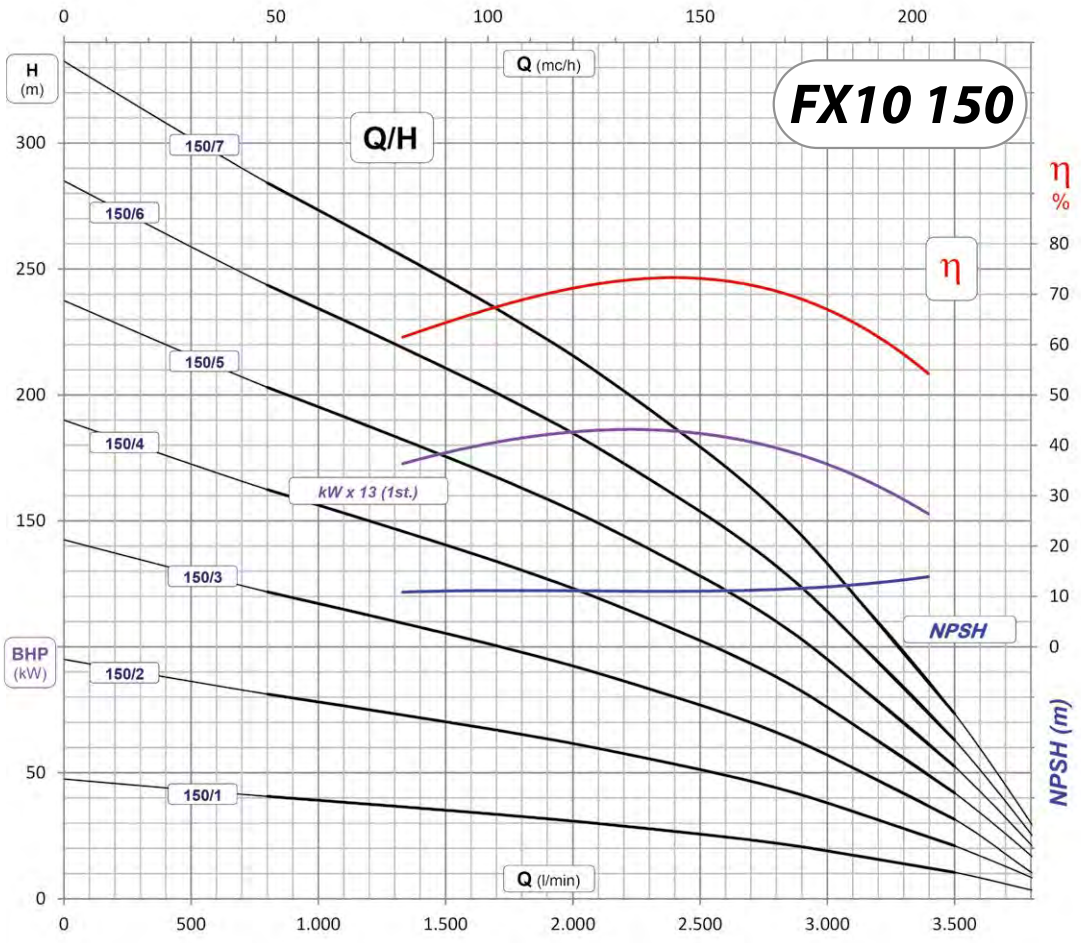

FX8 130
Q/H
η
NPSH
kW x 15 (1st.)
H (m)
BHP (kW)
Q (mc/h)
Q (l/min)
NPSH (m)
η %
130/15
130/14
130/13
130/12
130/11
130/10
130/9
130/8
130/7
130/6
130/5
130/4
130/3
130/2
130/1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210
0 50 100 150 200 250 300 350 400
0 500 1.000 1.500 2.000 2.500 3.000 3.500
0 10 20 30 40 50 60 70 80

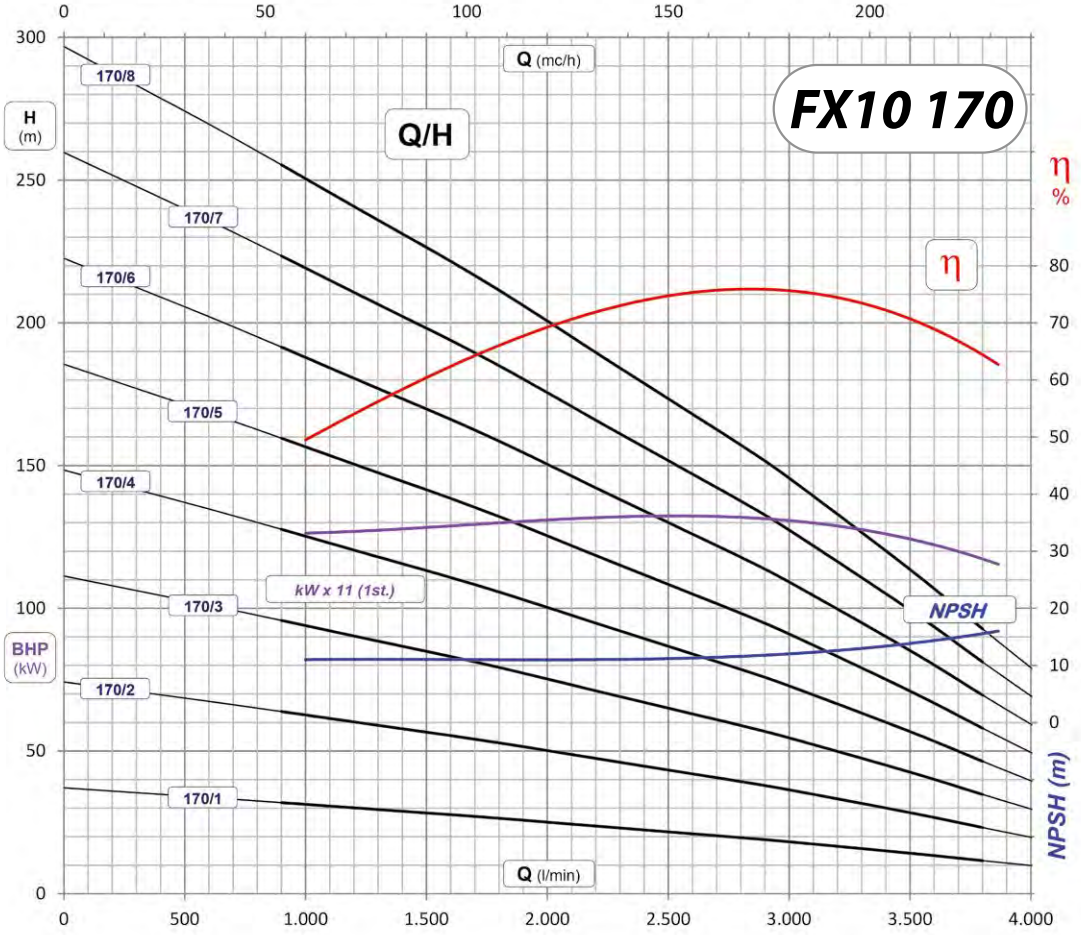
IBO ITALY FX"10

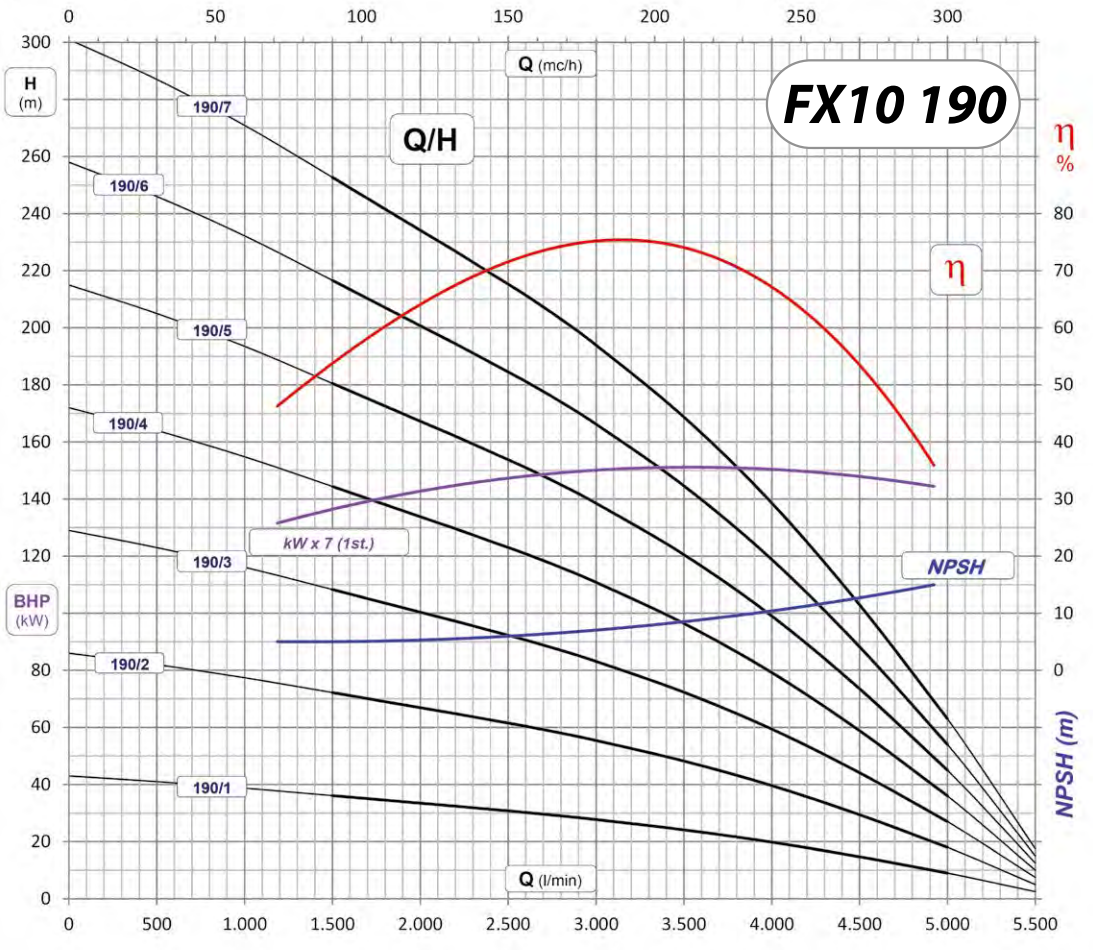
TYP	Power (kW)	Power (hp)	Stages	Amperage (A)	Thrust load (N)	Motor diameter	Height L(mm)	Weight (kg)
FX10 150/1	15	20	1	34	6200	6"	1730	135
FX10 150/2	30	40	2	62	12400	8"	2115	222
FX10 150/3	45	60	3	87	18600	8"	2370	260
FX10 150/4	60	80	4	113	24700	8"	2695	310
FX10 150/5	75	100	5	143	30900	8"	3014	360
FX10 150/6	92	125	6	184	37100	8"	3370	420
FX10 150/7	110	150	7	220	43300	10"	3505	565
FX10 170/1	13	17,5	1	30	4900	6"	1685	131
FX10 170/2	26	35	2	57	9700	6"	2170	186
FX10 170/3	37	50	3	77	14500	8"	2310	249
FX10 170/4	52	70	4	100	19300	8"	2530	300
FX10 170/5	67	90	5	130	24200	8"	2940	346
FX10 170/6	82	110	6	158	29000	8"	3255	396
FX10 170/7	92	125	7	184	33800	8"	3540	441
FX10 170/8	110	150	8	219	38600	10"	3670	586
FX10 190/1	18,5	25	1	41	5600	6"	1820	146
FX10 190/2	45	60	2	87	11200	8"	2200	239
FX10 190/3	59	80	3	130	16800	8"	2610	304
FX10 190/4	81	110	4	184	22400	8"	3030	378
FX10 190/5	110	150	5	219	28000	10"	3165	523
FX10 190/6	132	180	6	260	33600	10"	3535	603
FX10 190/7	147	200	7	295	39200	10"	3780	645
FX10 210/1	22	30	1	49	5600	6"	1900	155
FX10 210/2	45	60	2	87	11100	8"	2200	239
FX10 210/3	67	90	3	113	16600	8"	2525	289
FX10 210/4	92	125	4	158	22100	8"	2915	354
FX10 210/5	110	150	5	219	27700	10"	3165	523
FX10 210/6	132	180	6	260	33200	10"	3535	603
FX10 210/7	150	200	7	295	38700	10"	3780	645

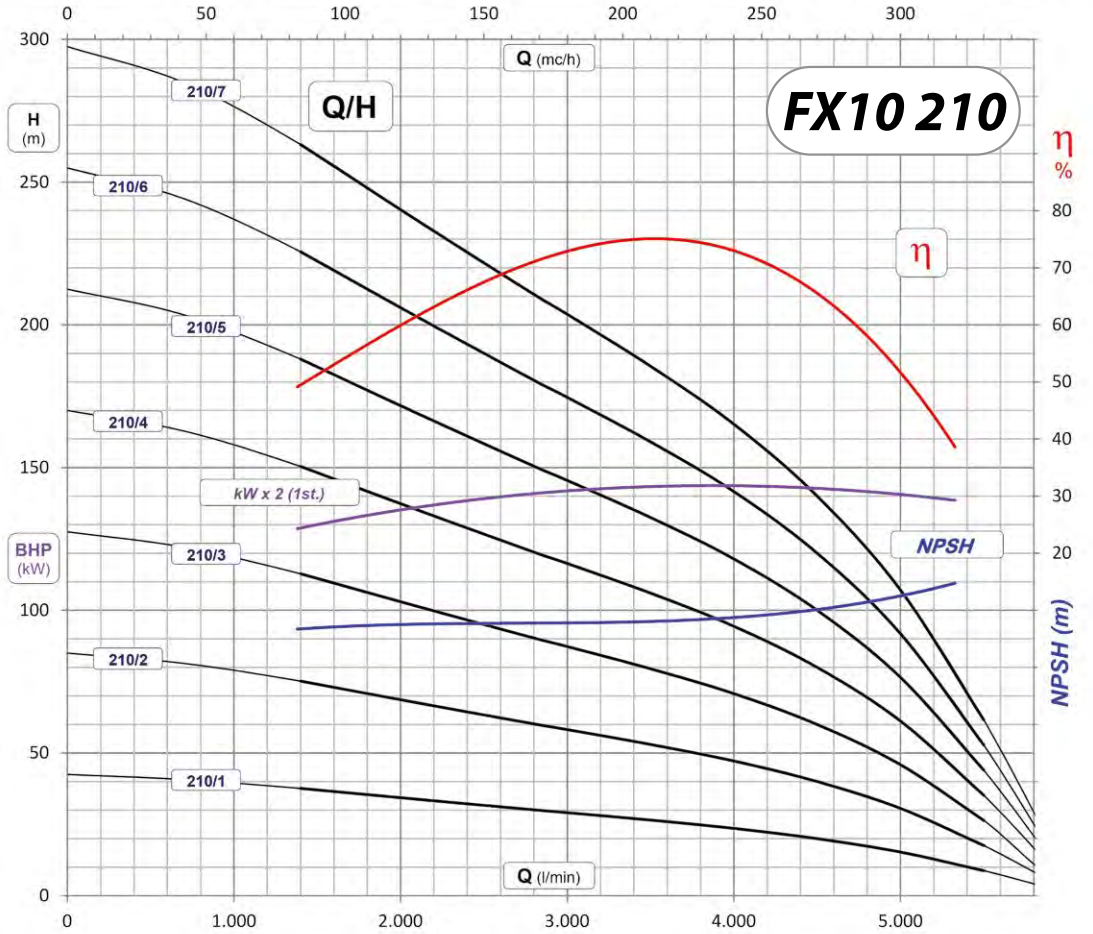


TYP	HP	kW	m3/h	0	72	84	96	108	120	132	144	156	168	180	210	240	270	300	330
			l/min	0	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3500	4000	4500	5000	5500
			l/sec	0	20,0	23,3	26,7	30,0	33,3	36,7	40,0	43,3	46,7	50,0	58,3	66,7	75,0	83,3	91,7
FX10 150/1	20	15		48	38	36	34	33	31	29	27	25	22	19	11				
FX10 150/2	40	30		95	75	72	69	65	62	58	53	49	44	38	21				
FX10 150/3	60	45		143	113	108	103	98	92	86	80	74	66	57	32				
FX10 150/4	80	59		190	150	142	137	130	123	115	107	98	88	76	42				
FX10 150/5	100	75		238	188	180	172	163	154	144	134	123	110	95	53				
FX10 150/6	125	92		285	225	216	206	196	185	173	160	147	132	114	63				
FX10 150/7	150	110		333	263	251	240	228	216	202	187	172	154	133	74				
FX10 170/1	17,5	13		37			28	26	25	24	22	21	20	18	14	10	6		
FX10 170/2	35	26		74			55	53	50	47	45	42	39	36	28	20	11		
FX10 170/3	50	37		111			83	79	75	71	67	63	59	55	43	30	17		
FX10 170/4	70	52		148			111	106	100	95	89	84	79	73	57	40	23		
FX10 170/5	90	67		186			139	132	125	119	112	105	98	91	71	50	29		
FX10 170/6	110	82		223			166	159	150	142	134	126	118	109	85	59	34		
FX10 170/7	125	92		260			194	185	176	166	156	147	138	127	99	69	40		
FX10 170/8	150	110	H (m)	297			222	211	201	190	179	168	157	146	114	79	46		
FX10 190/1	25	18,5		43				35	33	32	31	30	29	28	24	20	15	9	
FX10 190/2	60	45		86				69	67	65	63	60	58	55	48	40	29	18	
FX10 190/3	80	59		129				103	100	97	94	91	87	83	72	59	44	27	
FX10 190/4	110	81		172				138	134	130	125	121	116	111	96	79	59	36	
FX10 190/5	150	110		215				172	167	162	157	151	145	139	121	99	74	45	
FX10 190/6	180	132		258				207	201	194	188	181	174	166	145	119	88	54	
FX10 190/7	200	147		301				241	234	227	219	211	203	194	169	139	103	63	
FX10 210/1	30	22		43					34	33	32	31	30	29	27	24	20	15	9
FX10 210/2	60	45		85					69	67	65	62	60	58	53	47	40	31	18
FX10 210/3	90	67		128					103	100	97	94	90	87	80	71	60	46	26
FX10 210/4	125	92		170					137	132	128	125	120	116	106	94	80	61	35
FX10 210/5	150	110		213					172	166	161	156	151	146	133	118	100	77	44
FX10 210/6	180	132		255					206	200	193	187	181	175	159	142	120	92	53
FX10 210/7	200	147		298					241	233	226	218	211	204	186	165	140	107	62

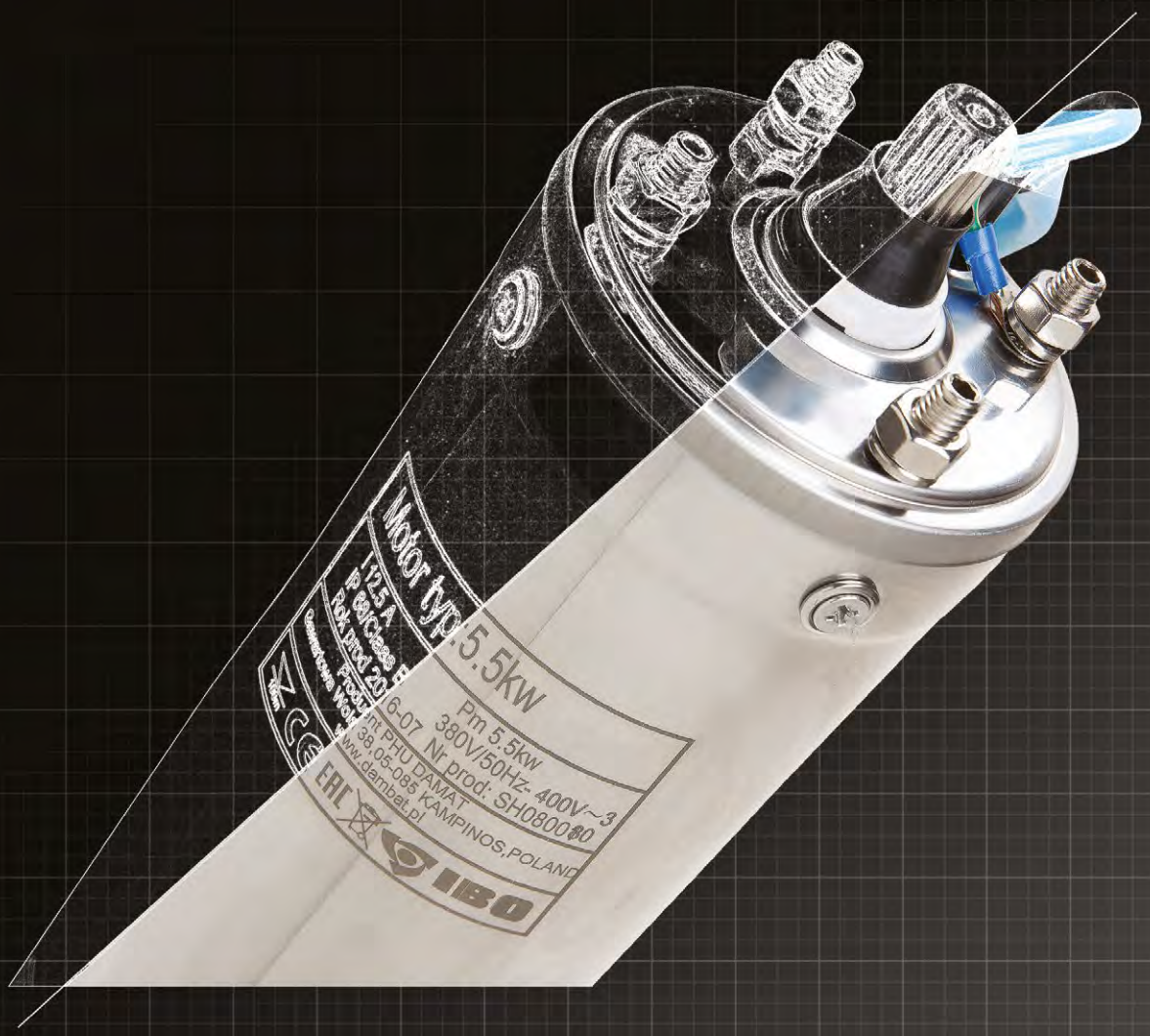

FX10 150
Q/H
H (m)
Q (mc/h)
Q (l/min)
η %
η
BHP (kW)
NPSH
NPSH (m)
kW x 13 (1st.)
150/7
150/6
150/5
150/4
150/3
150/2
150/1
0
50
100
150
200
300
250
200
150
50
0
500
1.000
1.500
2.000
2.500
3.000
3.500


FX10 170
Q/H
H (m)
Q (mc/h)
Q (l/min)
η %
η
BHP (kW)
NPSH
NPSH (m)
kW x 11 (1st.)
170/8
170/7
170/6
170/5
170/4
170/3
170/2
170/1
0
50
100
150
200
250
300
500
1.000
1.500
2.000
2.500
3.000
3.500
4.000


FX10 190
Q/H
H (m)
Q (mc/h)
190/7
190/6
190/5
190/4
190/3
190/2
190/1
η
η %
kW x 7 (1st.)
NPSH
BHP (kW)
NPSH (m)
Q (l/min)
0 50 100 150 200 250 300
0 500 1.000 1.500 2.000 2.500 3.000 3.500 4.000 4.500 5.000 5.500


FX10 210
Q/H
H (m)
Q (mc/h)
210/7
210/6
210/5
210/4
210/3
210/2
210/1
η
η %
kW x 2 (1st.)
NPSH
BHP (kW)
NPSH (m)
Q (l/min)
0 50 100 150 200 250 300
0 1.000 2.000 3.000 4.000 5.000

DEEP WELL MOTORS
TIEFBRUNNENMOTORE
PONORNÉ MOTORY
MOTOARE SUBMERSIBILE
ГЛУБИННЫЕ ДВИГАТЕЛИ



3”/ 4” / 6” IBO DEEP WELL OIL-FILLED MOTORS

High-quality, 3, 4, 6 inch diameter deep well oil-filled motors manufactured to NEMA standard.

Top quality materials used to manufacture the motors guarantee their long-term and reliable operation. High mechanical resistance and very good electrical properties.
Maximum diameter of motors: 3” - 75 mm / 4” – 98 mm / 6” – 145 mm.

OUTER CASING AND BASEPLATE:
Made of AISI 304 stainless steel.

UPPER BEARING RETAINER:
Durable cast iron protected with AISI 304 stainless steel cover. The outer tube is secured by 4 bolts.

MECHANICAL SEAL:
Graphite/ceramics.

BALL BEARINGS:
Properly sized to ensure the motor’s long lifespan.

STATOR:
The design provides maximum electrical efficiency. Filled with white, highly refined mineral oil.

SHAFT:
The outer part of the shaft and the splines are made of AISI 304 stainless steel, which provides excellent corrosion resistance and high mechanical resistance required under high dynamic loads.

CABLE GLAND:
The design of the gland prevents the ingress of motor oil into the cable's outer sheath.

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

TECHNICAL DATA:

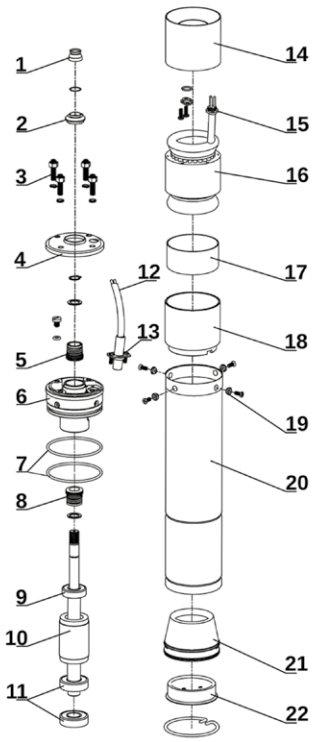
- Rotational speed: **2850 RPM**
- Ingress Protection: **IP 68**
- Winding insulation class: **B / F**
- Maximum immersion depth: **100 m**
- Maximum number of motor starts: **20 times per hour**
- Permissible voltage fluctuation: **+ 6 % / - 10 %**
- Maximum water temperature: **35°C**
- Cooling oil used: **non-toxic oil**



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

PARAMETERS

Name	Power (kW)	Voltage (V/Hz)	Thrust load (N)	Weight (kg)	Amperage (A)
3" 0,55	0,55	1 ~ 230/50	1000	8	4,2
3" 0,75	0,75	1 ~ 230/50	1500	8,5	5,4
3" 1,1	1,1	1 ~ 230/50	1500	9,5	7,7
4" 0,75	0,75	1 ~ 230/50 lub 3 ~ 400/50	1500	9,5	6,5/3,1
4" 1,1	1,1	1 ~ 230/50 lub 3 ~ 400/50	1500	10,8	8,5/4,0
4" 1,5	1,5	1 ~ 230/50 lub 3 ~ 400/50	1500	12,5	10,5/5,0
4" 2,2	2,2	1 ~ 230/50 lub 3 ~ 400/50	1500	13,9	15,5/6,3
4" 3	3	3 ~ 400/50	2500	14,8	7,2
4" 4	4	3 ~ 400/50	2500	18	9,2
4" 5,5	5,5	3 ~ 400/50	2500	22	12,9
4" 7,5	7,5	3 ~ 400/50	2500	28	18,5
6" 7,5	7,5	3 ~ 400/50	5500	38	17,5
6" 9,2	9,2	3 ~ 400/50	5500	42	21,5
6" 11	11	3 ~ 400/50	10000	47	24,5
6" 13	13	3 ~ 400/50	10000	52	27,5
6" 15	15	3 ~ 400/50	10000	58	31,5



4" ITALIAN DEEP WELL MOTORS
4IOM ITALY - OIL

4" diameter Italian deep well oil-filled motors. High-quality original Italian materials, demanding tests at every stage of manufacturing process, and the expertise of Italian engineers guarantee high mechanical resistance and very good electrical properties of the product. Power cable terminated with removable cable gland provides excellent tightness. Motors diameter: 4" - 95 mm.

OUTER CASING AND BASEPLATE: Made of AISI 304 stainless steel. Outer tube made of AISI 304L (low carbon) steel for greater corrosion protection at the welded joints.

UPPER BEARING RETAINER: Cast iron treated by means of cataphoresis (4 inch motors are additionally protected with AISI 304 stainless steel cover).

MECHANICAL SEAL: Graphite/ceramics standard version or SIC-SIC (silicon carbide/silicon carbide)

BALL BEARINGS: Properly sized to ensure the motor's long lifespan.

STATOR: Special design for maximum electrical efficiency. Filled with white, highly refined mineral oil approved for use in contact with drinking water (F.F.A. approval)

SHAFT: The inner part of the rotor is made of carbon steel alloy in order to improve the electrical properties of the motor. The outer part of the shaft and the splines are made of DUPLEX stainless steel. Such combination provides excellent corrosion resistance and high mechanical resistance
required under high dynamic loads.

REMOVABLE CABLE GLAND: It provides perfect sealing under the toughest conditions and makes it easier to remove cable for maintenance purposes. Power cable is terminated with a removable cable gland for perfect sealing. Power cable is compliant with main drinking water quality standards (KTW, ACS, WRAS)

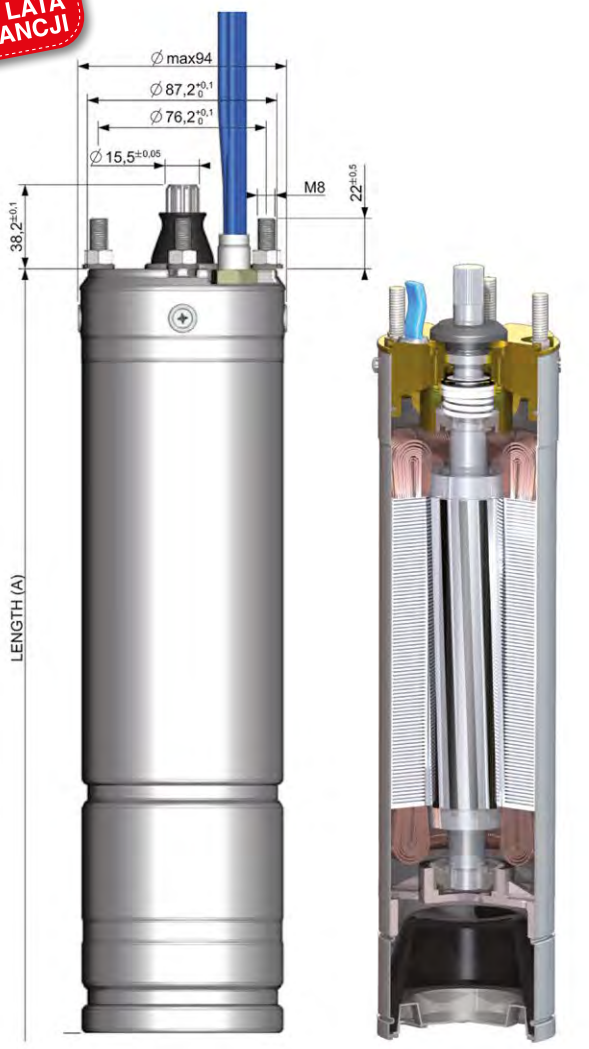
100% TESTED: All motors are tested at the end of the manufacturing process. Tests include electrical and mechanical properties, and tightness tests.



TECHNICAL DATA:

- Rotational speed: **2850 RPM**
- Ingress Protection: **IP 68**
- Winding insulation class: **F**
- Maximum immersion depth: **200 m**
- Maximum number of motor starts: 3**0 times per hour**
- Permissible voltage fluctuation: + 10 % / - 10 %
- Maximum water temperature: 35°C
- Cooling oil used: non-toxic oil
- Installation: horizontal / vertical
- Can be used with inverters.

3 LATA GWARANCJI



PARAMETERS

Name	Power (kW)	Voltage (V/Hz)	Thrust load (N)	Height (mm)	Weight (kg)	In[A] 230V/400V	
4 IOM-S/T 050	0,37	1 ~ 230/50 lub 3 ~ 400/50	2000	311,3	6,45	3,6	1,8
4 IOM-S/T 075	0,55	1 ~ 230/50 lub 3 ~ 400/50	2000	331,3	7,2	4,7	2
4 IOM-S/T 100	0,75	1 ~ 230/50 lub 3 ~ 400/50	2000	356,3	8,45	5,9	2,5
4 IOM-S/T 150	1,1	1 ~ 230/50 lub 3 ~ 400/50	2000	386,3/371,1	10,2/9,35	8,3	3,4
4 IOM-S/T 200	1,5	1 ~ 230/50 lub 3 ~ 400/50	2000	436,3/386,3	11,65	10,7	4,8
4 IOM-S/T 300*	2,2	1 ~ 230/50 lub 3 ~ 400/50	2000	481,3/436,3	14,9/11,65	15,2	6,1
4 IOM-S/T 400	3	3 ~ 400/50	3000	481,3	14,9	-	7,1
4 IOM-S/T 550	4	3 ~ 400/50	5000	609,5	20,05	-	9,2
4 IOM-S/T 750	5,5	3 ~ 400/50	5000	699,5	24,65	-	11,7
4 IOM-S/T 1000	7,5	3 ~ 400/50	5000	799,5	28,95	-	16,4

6" ITALIAN DEEP WELL MOTORS
6IOM ITALY - OIL

3 LATA GWARANCJI

MOTORS FOR 6" WELLS OR LARGER.
High-quality original Italian materials, demanding tests at every stage of manufacturing process, and the expertise of Italian engineers guarantee high mechanical resistance and very good electrical properties of the product. All components that coin contact with water are made of AISI 304 stainless steel. Power cable terminated with removable cable gland provides excellent tightness.
PRODUCT FEATURES:
OUTER CASING AND BASEPLATE: made of AISI 304 stainless steel Outer tube made of AISI 304L (low carbon) steel for greater corrosion protection at the welded joints.
UPPER BEARING RETAINER: cast iron treated by means of cataphoresis, protected with AISI 304 stainless steel cover. Secured to the outer tube with 8 bolts.
MECHANICAL SEAL: graphite/ceramics standard version: SIC-SIC (silicon carbide/silicon carbide). Special versions on request.
BALL BEARINGS: properly sized to ensure the motor's long lifespan.
STATOR: Special design for maximum electrical efficiency. Filled with white, highly refined mineral oil approved for use in contact with drinking water
(F.F.A. approval).
REMOVABLE CABLE GLAND: it provides perfect sealing under the toughest conditions and makes it easier to remove cable for maintenance purposes. The design of the gland prevents the ingress of motor oil into the cable's outer sheath. Power cable is compliant with main drinking water quality standards (KTW, ACS, WRAS).
SHAFT: the inner part of the rotor is made of carbon steel alloy to improve the electrical properties of the motor. The outer part of the shaft and the splines are made of DUPLEX stainless steel. Such combination provides excellent corrosion resistance and high mechanical resistance required under high holding torque.
100% TESTED: all motors are tested at the end of the manufacturing process. Tests include electrical and mechanical properties, and tightness tests.





TECHNICAL DATA:
- Rotational speed: 2850 RPM
- Ingress Protection: IP 68
- Winding insulation class: F
- Maximum immersion depth: 200 m
- Maximum number of motor starts: 30 times per hour
- Permissible voltage fluctuation: + 10 % / - 10 %
- Maximum water temperature: 35°C
- Cooling oil used: non-toxic oil
- Installation: horizontal / vertical
- Can be used with inverters.

Upon request, 6" 6IOM motors are also available as Y-Δ versions.

PARAMETERS

Name	Power (kW)	Voltage (V/Hz)	Thrust load (N)	Height (mm)	Weight (kg)	I_n (A)	η%	rpm	cos φ	Cable diameter (mm^2)	Cable length (m)
6 IOM-750	5,5	3 ~ 400/50	10000	698	41	9,1	74	2840	0,86	4x4	3
6 IOM-1000	7,5	3 ~ 400/50	10000	733	46	12,8	78	2850	0,83	4x4	3
6 IOM-1250	9,2	3 ~ 400/50	10000	773	48	16,8	81	2880	0,77	4x4	3
6 IOM-1500	11	3 ~ 400/50	10000	832	52	21,2	85	2850	0,82	4x4	3
6 IOM-1750	13	3 ~ 400/50	10000	893	57	22,9	84	2860	0,80	4x4	3
6 IOM-2000	15	3 ~ 400/50	10000	893	64	27,6	82	2840	0,86	4x8	4
6 IOM-2500	18,5	3 ~ 400/50	20000	956	64	30,7	84	2850	0,84	4x8	4
6 IOM-3000	22	3 ~ 400/50	20000	1023	79	38	84	2850	0,83	4x8	4
6 IOM-3500	26	3 ~ 400/50	20000	1091	79	52	85	2850	0,85	4x8	3
6 IOM-4000	30	3 ~ 400/50	20000	1171	87	61,5	85	2860	0,83	4x8	4
6 IOM-5000	37	3 ~ 400/50	20000	1306	99	76	84	2840	0,84	4x8	4

6" ITALIAN WATER-COOLED DEEP WELL MOTORS

MOTORS FOR 6" WELLS OR LARGER.
High quality 6 "water-cooled motors made in Italy under the IBO ITALY brand. Their durable design guarantees long-term operation without the need for any maintenance. High-quality original Italian materials, demanding tests at every stage of manufacturing process, and the expertise of Italian engineers guarantee high mechanical resistance and very good electrical properties of the product.

PRODUCT FEATURES:

OUTER CASING AND BASEPLATE: Outer tube made of AISI 304L (low carbon) steel for greater corrosion protection at the welded joints. The baseplate is made of cast iron.

UPPER BEARING RETAINER: cast iron treated by means of cataphoresis.

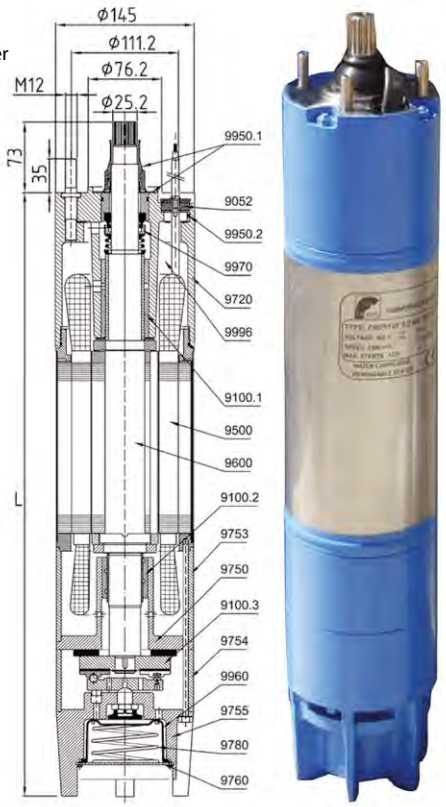
MECHANICAL SEAL: graphite/ceramics standard version: SIC-SIC (silicon carbide/silicon carbide). Special versions on request.

BALL BEARINGS: properly sized to ensure the motor's long lifespan.

STATOR: special design for maximum electrical efficiency. It can be rewound. Cooling is provided by water. The winding is Class Y insulated.

SHAFT: the inner part of the rotor is made of carbon steel alloy to improve the electrical properties of the motor. The outer part of the shaft and the splines are made of DUPLEX stainless steel. Such combination provides excellent corrosion resistance and high mechanical resistance required under high holding torques.

100% TESTED: all motors are tested at the end of the manufacturing process. Tests include electrical and mechanical properties, and tightness tests.





TECHNICAL DATA:

- Rotational speed: 2850 RPM
- Ingress Protection: IP 68
- Winding insulation class: F
- Maximum immersion depth: 100 m
- Maximum number of motor starts: 20 times per hour
- Permissible voltage fluctuation: + 5 % / - 5 %
- Maximum water temperature: 30°C
- Cooling liquid: water
- Installation: horizontal / vertical
- Can be used with inverters.

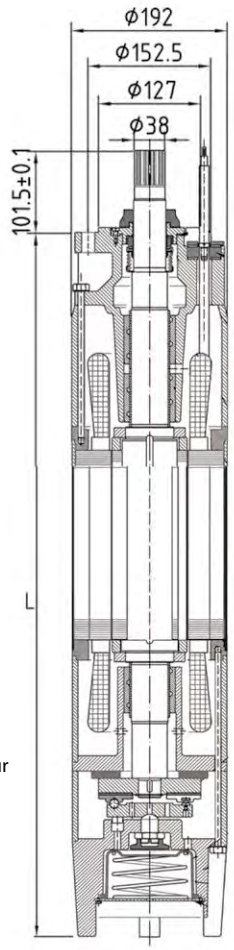
PARAMETERS

Name	Power (kW)	KW	I_n (A)	Height (mm)	Weight (kg)	Max. water temperature (C)	Maximum number of motor starts: per hour	Thrust load (N)	cos Ø	η%
6IWM-550	5,5	4	10	565	41	30	12	25000	80	79
6IWM-750	7,5	5,5	12,5	590	44				81,5	80
6IWM-1000	10	7,5	17	620	48				81,5	81
6IWM-1250	12,5	9,2	21	670	53				82	82
6IWM-1500	15	11	24,5	730	60				82	83
6IWM-1750	17,5	13	28	760	63				82,5	84
6IWM-2000	20	15	32	850	72				83	84
6IMW-2500	25	18,5	40	910	78				83,5	84
6IWM-3000	30	22	47,5	990	88	30	10	25000	83,5	85
6IWM-3500	35	26	55	1100	100				84	85
6IMW-4000	40	30	62,5	1170	107				85	85,5
6IWM-5000	50	37	78	1260	115				85	85

8" DEEP WELL WATER-COOLED MOTORS 8IWM ITALY

High quality 8" water-cooled motors made in Italy under the IBO ITALY brand. Their durable design guarantees long-term operation without the need for any maintenance.

PRODUCT FEATURES
OUTER CASING AND BASEPLATE: Outer tube made of AISI 304L steel for greater corrosion protection at the welded joints. The baseplate is made of cast iron.
UPPER BEARING RETAINER: G25 cast iron
MECHANICAL SEAL: standard version: SIC-NBR-AISI304
BALL BEARINGS: carbon graphite, properly sized to ensure the motor's long lifespan.
STATOR: Special design for maximum electrical efficiency. It can be rewound. Cooling is provided by water. The winding is Class Y insulated.
SHAFT: the inner part of the rotor is made of carbon steel alloy to improve the electrical properties of the motor. The outer part of the shaft and the splines are made of DUPLEX stainless steel. Such combination provides excellent corrosion resistance and high mechanical resistance required under high holding torque.
100% TESTED: all motors are tested at the end of the manufacturing process. Tests include electrical and mechanical properties, and tightness tests.







TECHNICAL DATA:
- Rotational speed: 2850 RPM
- Ingress Protection: IP 68
- Winding insulation class: Y
- Maximum immersion depth: 100 m
- Maximum number of motor starts: 7 times per hour
- Permissible voltage fluctuation: + 10 % / - 10 %
- Maximum water temperature: 30°C
- Cooling liquid: water
- Maximum flow: 0.5 m/s
- Installation: vertical
- Can be used with inverters.

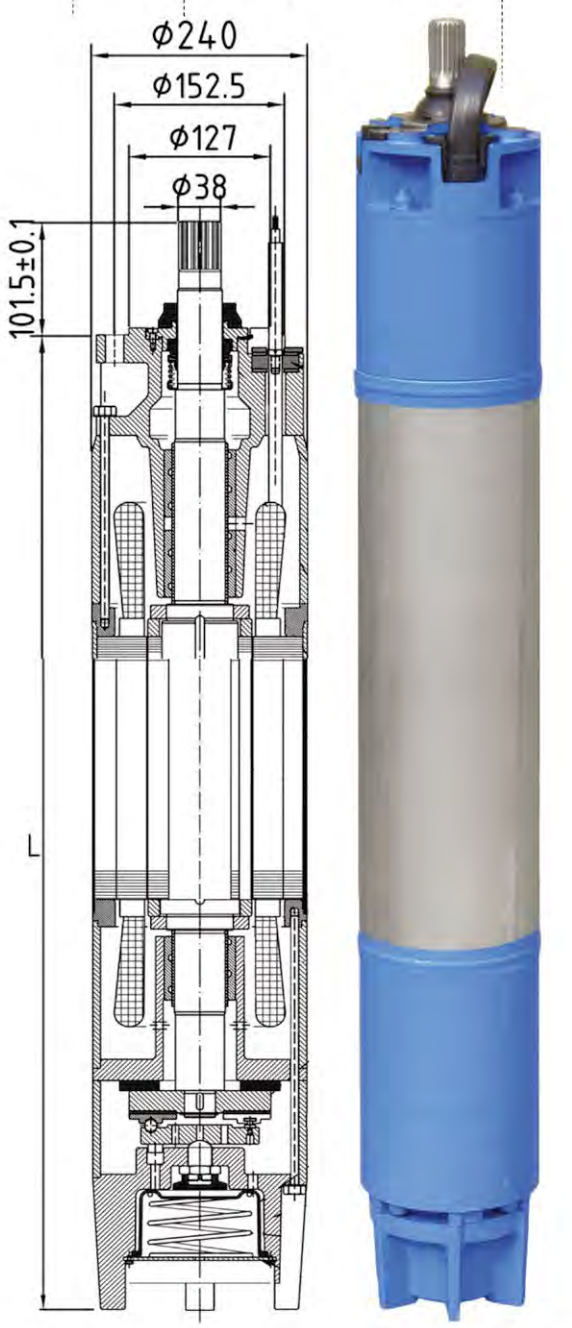
PARAMETERS

Name	Power (HP)	Power (kW)	Voltage (V)	Thrust load (N)	Length L(mm)	Weight (Kg)	Amperage In(A)	rpm	cos φ	η%	Cable diameter (mm^2)	Cable length (m)
8IMW 30	30	22	3~400	38.000	861	121	48	2900	0,85	81	3x4	4
8IMW 40	40	30		38.000	1.075	142	62	2925	0,85	85	3x10	4
8IMW 50	50	37		38.000	1.102	148	77	2900	0,86	85	3x10	4
8IMW 60	60	45		38.000	1.160	159	87	2900	0,87	85	3x10	4
8IMW 70	70	52		38.000	1.152	178	100	2915	0,86	86	3x16	4
8IMW 75	75	55		38.000	1.282	183	110	2910	0,87	86	3x16	4
8IMW 80	80	60		38.000	1.315	188	113	2915	0,88	86	3x16	4
8IMW 90	90	66		45.000	1.393	203	130	2910	0,87	86	3x25	4
8IMW 100	100	75		45.000	1.464	217	143	2910	0,87	86	3x25	4
8IMW 110	110	81		45.000	1.535	232	158	2915	0,86	88	3x25	4
8IMW 125	125	92		45.000	1.650	256	184	2930	0,85	86	3x25	4
8IMW 150	150	110		45.000	1.845	295	212	2845	0,87	89	3x35	4

10” DEEP WELL WATER-COOLED MOTORS 10IWM ITALY

MOTORS FOR 10” WELLS OR LARGER.
Top-quality original Italian materials, demanding tests at every stage of manufacturing
process, and the expertise of Italian engineers guarantee high mechanical resistance and very good electrical properties of the product. All components that come in contact with water are made of AISI 304 stainless steel. Power cable terminated with removable cable gland provides excellent tightness.

PRODUCT FEATURES
OUTER CASING AND BASEPLATE: made of AISI 304 stainless steel Outer tube made of AISI 304L (low carbon) steel for greater corrosion protection at the welded joints.
UPPER BEARING RETAINER: cast iron treated by means of cataphoresis, protected with AISI 304 stainless steel cover. Secured to the outer tube with 8 bolts.
MECHANICAL SEAL: graphite/ceramics standard version: SIC-SIC (silicon carbide/silicon carbide). Special versions on request.
BALL BEARINGS: properly sized to ensure the motor’s long lifespan.
STATOR: Special design for maximum electrical efficiency. Filled with white, highly refined mineral oil approved for use in contact with drinking water (F.F.A. approval)
REMOVABLE CABLE GLAND: it provides perfect sealing under the toughest conditions and makes it easier to remove cable
for maintenance purposes. The design of the gland prevents the ingress of motor oil into the cable's outer sheath. Power cable is compliant with main drinking water quality standards (KTW, ACS, WRAS).
SHAFT: the inner part of the rotor is made of carbon steel alloy to improve the electrical properties of the motor. The outer part of the shaft and the splines are made of DUPLEX stainless steel. Such combination provides excellent corrosion resistance and high mechanical resistance required under high holding torque.
100% TESTED: all motors are tested at the end of the manufacturing process. Tests include electrical and mechanical properties, and tightness tests.





TECHNICAL DATA:
- Rotational speed: 2850 RPM
- Ingress Protection: IP 68
- Winding insulation class: F
- Maximum immersion depth: 100 m
- Maximum number of motor starts: 5 times per hour
- Permissible voltage fluctuation: + 10 % / - 10 %
- Maximum water temperature: 25°C
- Cooling liquid: water
- Maximum flow: 0.5 m/s
- Installation: vertical
- Can be used with inverters.

PARAMETERS

Name	Power (HP)	kW Power (kW)	Voltage (V)	Thrust load (N)	Length L(mm)	Weight (Kg)	Amperage In(A)	rpm	cos Ø	η%	Cable diameter (mm2)	Cable length (m)
FME 10 125T	125	92	3 ~ 400/50	60000	1316	285	181	2910	0,84	84	3x35	5
FME 10 150T	150	110		60000	1446	330	220	2915	0,87	85	3x35	5
FME 10 180T	180	132		60000	1546	365	265	2920	0,85	85	3x50	5
FME 10 200T	200	147		60000	1682	400	300	2925	0,86	86	3x50	5
FME 10 250T	250	185		60000	1880	460	370	2930	0,85	86	3x50	5

TANKS
BEHÄLTER
NÁDRŽE
REZERVOARE
РЕЗЕРВУАРЫ



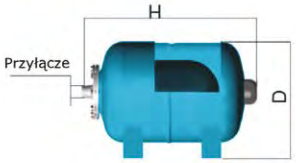
PRESSURE TANKS HORIZONTAL / HORIZONTAL WITH PRESSURE GAUGE

The 24 -150 horizontal pressure tanks for storing water in water supply systems. IBO pressure vessels are used to stabilize water pressure and increase the live volume of water supply systems. Designed to operate with pumps with parameters matching the tank parameters. The tanks are made of thick carbon steel and coated with a special anti-corrosion varnish. There are EPDM rubber diaphragms inside the tanks creating a membrane between the water inside it and the outer jacket of the tank. Compressed air between the membrane and the tank body releases water from the tank under pressure. By using tanks in booster sets, the number of pump starts in a given period of time can be limited, which results in the extended lifespan of the entire system. Additionally, 50 and 100 tank models are available with a built-in pressure gauge. The volume of water inside the tank is the difference between the tank body volume and the volume of air around the membrane.

The tanks are equipped with a special valve for filling or releasing air from the tank - the same valve as the one used in car tyres is located at the rear of the tank, under the cover.
IBO pressure vessels are pressure equipment compliant with requirements of Directive 2014/68/EU. APPLICATION:
Connected with surface or deep-well pumps, they create booster sets for supplying water to allotments, single and multi-family houses, farms and enterprises from their own intakes.







PARAMETERS

MODEL	Inlet/outlet (inch)	Operating temperature (°C)	Max. tested PT pressure (bar)	Precharge pressure (bar)	Dimension D (mm)	Dimension H (mm)
HORIZONTAL PRESSURE TANK 24	1	0 - 60	8	1,7 +/- 10%	290	440
HORIZONTAL PRESSURE TANK 50	1	0 - 60	8	1,7 +/- 10%	370	525
HORIZONTAL PRESSURE TANK 50 WITH PRESSURE GAUGE	1	0 - 60	8	1,7 +/- 10%	370	525
HORIZONTAL PRESSURE TANK 80	1	0 - 60	8	1,7 +/- 10%	470	595
HORIZONTAL PRESSURE TANK 100	1	0 - 60	8	1,7 +/- 10%	470	645
HORIZONTAL PRESSURE TANK 100 WITH PRESSURE GAUGE	1	0 - 60	8	1,7 +/- 10%	470	645
HORIZONTAL PRESSURE TANK 150	1	0 - 60	8	1,7 +/- 10%	550	870

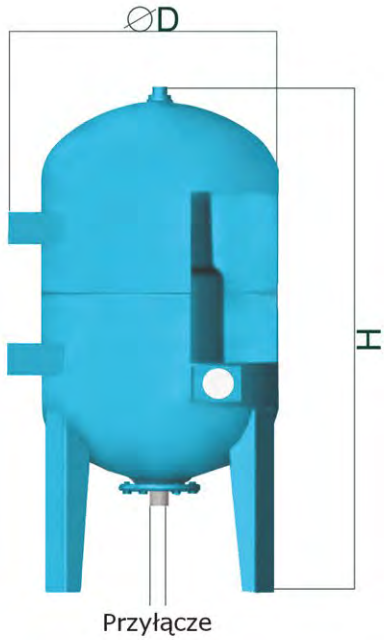
PRESSURE TANKS VERTICAL / HORIZONTAL WITH PRESSURE GAUGE

The 24 - 150 horizontal pressure tanks for storing water in water supply systems. IBO pressure vessels are used to stabilize water pressure and increase the live volume of water supply systems. Designed to operate with pumps with parameters matching the tank parameters. The tanks are made of thick carbon steel and coated with a special anti-corrosion varnish. There are EPDM rubber diaphragms inside the tanks creating a membrane between the water inside it and the outer jacket of the tank. Compressed air between the membrane and the tank body releases water from the tank under pressure. By using tanks in booster sets, the number of pump starts in a given period of time can be limited, which results in the extended lifespan of the entire system. Additionally, the 50 and 100 tank models are available with a built-in pressure gauge. The volume of water inside the tank is the difference between the tank body volume and the volume of air around the membrane.

The tanks are equipped with a special valve for filling or releasing air from the tank - the same valve as the one used in car tyres is located at the rear of the tank, under the cover.

IBO pressure vessels are pressure equipment compliant with requirements of Directive 2014/68/EU.

APPLICATION:
Connected with surface or deep-well pumps, they create booster sets for supplying water to allotments, single and multi-family houses, farms and enterprises from their own intakes.





PARAMETERS

MODEL	Inlet/outlet (inch)	Operating temperature (°C)	Max. tested PT pressure (bar)	Precharge pressure (bar)	Dimension D (mm)	Dimension H (mm)
VERTICAL/HORIZONTAL PRESSURE TANK TYPE 50	1	0 - 60	8	1,7 +/- 10%	380	620
VERTICAL/HORIZONTAL PRESSURE TANK TYPE 80	1	0 - 60	8	1,7 +/- 10%	480	680
VERTICAL/HORIZONTAL PRESSURE TANK TYPE 100	1	0 - 60	8	1,7 +/- 10%	480	760
VERTICAL/HORIZONTAL PRESSURE TANK TYPE 150	1	0 - 60	8	1,7 +/- 10%	550	1040

STAINLESS STEEL INOX HORIZONTAL PRESSURE TANKS

The 24 - 100 horizontal pressure tanks made of AISI 304 stainless steel for storing water in water supply systems. Tank jacket and flange are made of stainless steel. IBO pressure vessels are used to stabilize water pressure and increase the live volume of water supply systems. Designed to operate with pumps with parameters matching the tank parameters. Due to the stainless steel finish, the tanks can be installed in wells and wet rooms without the risk of early corrosion. There are EPDM rubber diaphragms inside the tanks creating a membrane between the water inside it and the outer jacket of the tank. Compressed air between the membrane and the tank body releases water from the tank under pressure.
By using tanks in booster sets, the number of pump starts in a given period of time can be limited, which results in the extended lifespan of the entire system. Additionally, the 50 and 100 tank models are available with a built-in pressure gauge. The volume of water inside the tank is the difference between the tank body volume and the volume of air around the membrane.

The tanks are equipped with a special valve for filling or releasing air from the tank - the same valve as the one used in car tyres is located at the rear of the tank, under the cover.

IBO pressure vessels are pressure equipment compliant with requirements of Directive 2014/68/EU. APPLICATION:
Connected with surface or deep-well pumps, they create booster sets for supplying water to allotments, single and multi-family houses, farms and enterprises from their own intakes



PARAMETERS

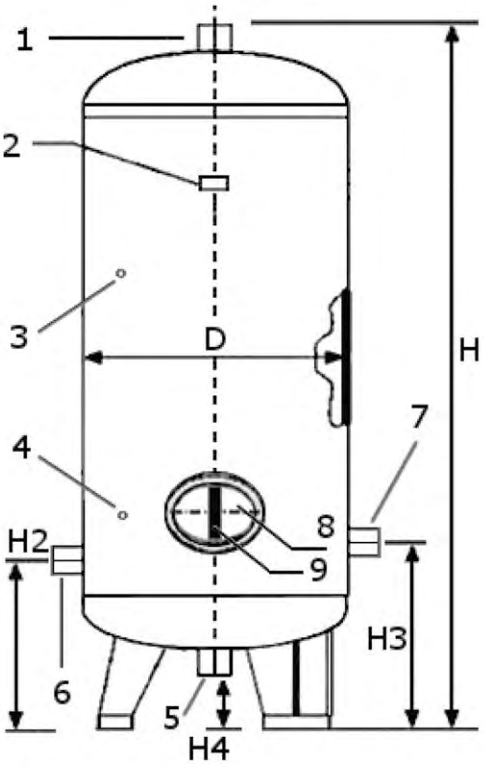
MODEL	Inlet/outlet (inch)	Operating temperature (°C)	Max. tested PT pressure (bar)	Precharge pressure (bar)	Dimension D (mm)	Dimension H (mm)
HORIZONTAL INOX PRESSURE TANK TYPE 24	1	0 - 60	8	1,7 +/- 10%	300	450
HORIZONTAL INOX PRESSURE TANK TYPE 50	1	0 - 60	8	1,7 +/- 10%	380	530
HORIZONTAL INOX PRESSURE TANK TYPE 80	1	0 - 60	8	1,7 +/- 10%	470	590
HORIZONTAL INOX PRESSURE TANK TYPE 100	1	0 - 60	8	1,7 +/- 10%	480	670

GALVANIZED TANKS

Corrosion-resistant vertical air-over-water tanks made of zinc-coated low-carbon sheet metal. Tank jacket and flange are made of galvanized steel. Galvanized tanks are designed to stabilize water pressure and increase the live volume of water supply systems. Designed to operate with pumps with parameters matching the tank parameters. Due to the galvanized steel finish, the tanks can be installed in wells and wet rooms, and even externally without the risk of early corrosion. The tanks are available in capacity from 100 to 2000 litres. Maximum permissible pressure in the tank is 6 bar. Our offer also includes fittings for galvanized tanks.

APPLICATION:
Water storage. In combination with surface or deep-well pumps used to supply water to single and multi-family houses, farms and in industrial applications. As the only tanks, air-over-water tanks are suitable for installation in water supply systems with block filters and where additional water oxygenation is required.





1 - G 2" connection
2 - Rating plate
3 - G ½" water gauge connection
4 - G ½" Water gauge connection
5 - G 2" Connection
6 - for sizes: 100L, 500L
- G 1 ¼" inlet (outlet) pipe (1" for 100L)
6 - for sizes: 150L, 200L, 300L – G 1 ¼" Inlet
6 - for sizes: A-1000L, B-1500L, C-2000L - Flow pipe with flange A-DN50/B-DN80/C-DN100
7 - G 1 ¼" inlet (outlet) pipe (1" for 100L)
8 - Cleaning hatch
9 - Clamp



PARAMETERS

MODEL	H	H2	H3	H4	D	Operating pressure (bar)	Max. temperature (°C)	Weight (kg)
100 L	767	360	360	78	500	6	20	28
150 L	967	360	360	72	500	6	20	45
200 L	1066	360	360	84	550	6	20	48
300 L	1354	360	360	84	550	6	20	57
500 L	1439	370	360	91	750	6	20	115
1000 L	1952	638	638	202	908	8	20	208
1500 L	2335	700	638	240	1010	8	20	340
2000 L	2200	660	638	160	1210	10	20	435

IBO ITALY PRESSURE TANKS

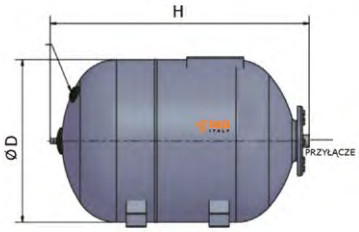
High-quality original materials, demanding tests at every stage of manufacturing process, and the expertise of engineers guarantee high resistance to wear. The 24L - 100L horizontal and 150L - 10000L vertical pressure tanks for storing water in water supply systems. IBO ITALY PRZEPONA pressure vessels are used to stabilize water pressure and increase the live volume of water supply systems. Designed to operate with pumps with parameters matching the tank parameters. The tanks are made of thick carbon steel and coated with a special anti-corrosion varnish. There are EPDM rubber diaphragms (manufactured in Italy) inside the tanks creating a membrane between the water inside it and the outer jacket of the tank. Compressed air between the membrane and the tank body releases water from the tank under pressure. By using tanks in booster sets, the number of pump starts in a given period of time can be limited, which results in the extended lifespan of the entire system. Tank volume refers to the body size - the volume of water inside the tank is the difference between the tank body volume and the volume of air around the membrane.

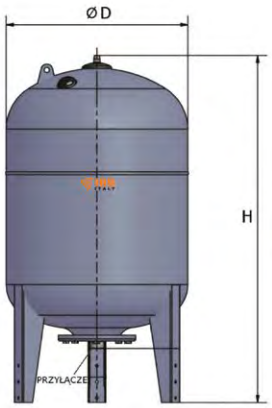
The tanks are equipped with a special valve for filling or releasing air from the tank - the same valve as the one used in car tyres is located at the rear of the tank, under the cover.

IBO pressure vessels are pressure equipment compliant with requirements of Directive 2014/68/EU.

APPLICATION:
Connected with surface or deep-well pumps, they create booster sets for supplying water to allotments, single and multi-family houses, farms and enterprises from their own intakes.









PARAMETERS

MODEL	Inlet/outlet (inch)	Operating temperature (°C)	Max. operating pressure (bar)	Max. testing pressure (bar)	Precharge pressure (bar)	Dimension D (mm)	Dimension H (mm)
HORIZONTAL IBO ITALY TANK 24L	1	(-10°C) -100°C	10	15	2 +/- 10%	335	465
HORIZONTAL IBO ITALY TANK 50L	1	(-10°C) -100°C	10	15	2 +/- 10%	385	590
HORIZONTAL IBO ITALY TANK 80L	1	(-10°C) -100°C	10	15	2 +/- 10%	445	650
HORIZONTAL IBO ITALY TANK 100L	1	(-10°C) -100°C	10	15	2 +/- 10%	550	680
VERTICAL IBO ITALY TANK 150L	1	(-10°C) -100°C	10	15	3 +/- 10%	510	1090
VERTICAL IBO ITALY TANK 200L	1¼	(-10°C) -100°C	10	15	3 +/- 10%	590	1100
VERTICAL IBO ITALY TANK 300L	1¼	(-10°C) -100°C	10	15	4 +/- 10%	640	1250
VERTICAL IBO ITALY TANK 500L	1¼	(-10°C) -100°C	10	15	4 +/- 10%	750	1550
VERTICAL IBO ITALY TANK 1000L	2	(-10) - (+100)	10	15	4 +/- 10%	800	2200
VERTICAL IBO ITALY TANK 1500L	2	(-10) - (+100)	10	15	4 +/- 10%	960	2350
VERTICAL IBO ITALY TANK 2000L	2	(-10) - (+100)	10	15	4 +/- 10%	1100	2450
VERTICAL IBO ITALY TANK 3000L	3	(-10) - (+100)	10	15	4 +/- 10%	1200	2700
VERTICAL IBO ITALY TANK 5000L	3	(-10) - (+100)	10	15	4 +/- 10%	1450	3400
VERTICAL IBO ITALY TANK 10000L	3	(-10) - (+100)	10	15	4 +/- 10%	1600	5900

IBO ITALY FIX MEMBRANE TANKS

Horizontal fix membrane pressure tanks for use with drinking water. In order to minimize pump vibration, the tank's baseplate and legs are made of plastic. Tanks are available with 24, 50, 80 and 100 litres capacity. Inside the steel vessel there is a fix membrane made of butyl rubber with high tensile strength and high temperature resistance, separating the liquid from the air.

Tank specification:

- 1" stainless steel connection
- Outer surface with two-coat acrylic epoxy
- and polyurethane paint
- Compliant with the Pressure Equipment Directive (PED) 2014/68/UE
- Maximum operating pressure - 10 bar

Membrane specification:

- Made of butyl rubber
- Hygenic approval

A. Sealed air valve
B. Two-coat epoxy and polyurethane paint
C. 1" stainless steel connection
D. Diameter
E. Membrane made of approved butyl rubber
F. Approved outer coating
G. Precharge pressure - 2bar
H. Height

5 LATA GWARANCJI









PARAMETERS

MODEL	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Precharge pressure (bar)	Inlet/Outlet (inch)
HORIZONTAL IBO ITALY FIX TANK 24L	24	10	425	334	2	1 BSP / NPT
HORIZONTAL IBO ITALY FIX TANK 50L	50	10	570	384	3	1 BSP / NPT
HORIZONTAL IBO ITALY FIX TANK 80L	80	10	670	435	3	1 BSP / NPT
HORIZONTAL IBO ITALY FIX TANK 100L	100	10	712	544	3	1 BSP / NPT

IBO ITALY CWU PRESSURE VESSELS

High-quality original materials, demanding tests at every stage of manufacturing process, and the expertise of engineers guarantee high resistance to wear. IBO CWU 8L-50L expansion vessels for hot and cold drinking water supply systems, designed to maintain and stabilize the system pressure changes resulting from the increase in water volume. The tanks are made of thick carbon steel and coated with a special anti-corrosion varnish. There are rubber diaphragms (manufactured in Italy) inside the tanks creating a membrane between the water inside it and the outer jacket of the tank. The long-lasting maximum liquid operating temperature is 110°C, and up to 130°C for a period of 2 hours.
The tanks are equipped with a special valve for filling or releasing air from the tank - the same valve as the one used in car tyres is located at the rear of the tank, under the cover.

- The outer surface is coated with epoxy powder paint.
- IBO pressure vessels are pressure equipment compliant with requirements of Directive 2014/68/EU
- The vessels can be used with mixtures of ethylene or propylene glycol.
- They have very low gas permeability

APPLICATION:
In hot and cold drinking water supply system to maintain and stabilize the system pressure changes resulting from the increase in water volume.



PARAMETERS

MODEL	Inlet/outlet (inch)	Operating temperature (°C)	Max. operating pressure (bar)	Max. testing pressure (bar)	Precharge pressure (bar)	Dimension D (mm)	Dimension H (mm)
C.W.U ITALY VESSEL 8L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	200	330
C.W.U ITALY VESSEL 12L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	240	360
C.W.U ITALY VESSEL 19L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	300	365
C.W.U ITALY VESSEL 24L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	300	430
C.W.U VESSEL 36L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	350	760
C.W.U VESSEL 50L	¾	(-0°C) -100(130)°C	10	15	2,5 +/- 10%	380	870

IBO ITALY CO/CWU FIX MEMBRANE PRESSURE VESSELS

Fix membrane vessels - IBO ITALY FIX
Pressure vessel used to prevent excessive pressure increase in closed systems IBO ITALY C.O / C.W.U pressure vessel are designed for:

- hot and cold drinking water supply systems to maintain and stabilize the system pressure changes resulting from the increase in water volume.
- heating and solar systems to maintain and stabilize the system pressure changes resulting from the increase in fluid volume and temperature.

Inside the steel vessel there is a fix membrane made of butyl rubber with high tensile strength and high temperature resistance, separating the liquid from the air.
The vessels are intended for systems with the maximum 50% glycol content.. Tank specification:

- 1" thick stainless steel connection
- Outer surface with two-coat acrylic epoxy
- and polyurethane paint
- Compliant with the Pressure Equipment Directive (PED) 2014/68/UE
- Maximum operating pressure - 10 bar

Membrane specification:

- Made of butyl rubber
- Hygenic approval

5 LATA GWARANCJI

A. Sealed air valve
B. Two-coat epoxy and polyurethane paint
C. 1" thick stainless steel connection
D. Diameter
E. Membrane made of approved butyl rubber
F. Approved outer coating
G. Precharge pressure - 2bar
H. Height







PARAMETERS

MODEL	Capacity (L)	Pressure (Bar)	Diameter (D)	Height (H)	Precharge pressure (bar)	Inlet/Outlet (inch)
IBO ITALY FIX 12L CO/CWU tanks	12	10	240	352	2	1 BSP / NPT
IBO ITALY FIX 19L CO/CWU tanks	19	10	270	370	2	1 BSP / NPT
IBO ITALY FIX 24L CO/CWU tanks	24	10	300	425	2	1 BSP / NPT

IBO HEATS PRESSURE VESSELS FOR CENTRAL HEATING SYSTEMS

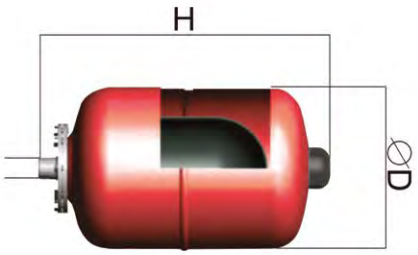
IBO HEATS pressure vessels are designed for heating and solar systems to maintain and stabilize the system pressure changes resulting from the increase in fluid volume and temperature.

The main function of pressure vessels is to prevent excessive pressure increase in closed systems.

Pressure vessels use air cushion to compensate for changes of the heating medium volume in closed circuits. Inside the steel vessel there is a replaceable EPDM (synthetic rubber) membrane with high tensile strength and high temperature resistance, separating the liquid from the air. The tanks are equipped with a pressure valve to regulated the pressure inside the vessel and a replaceable flange made of galvanized steel with 3/4" inlet/outlet connection.

The vessels are intended for systems with the maximum 50% glycol content.
Vessels for suspension: 8L / 12L / 19L / 24L
Free-standing vessels: 36L / 50L / 80L / 100L

IBO HEATS pressure vessel are compliant with the Pressure Equipment Directive (PED) 2014/68/UE of the European Parliament and of the Council, as amended.









PARAMETERS

Model	Operating temperature	Max. operating pressure	Max. Pressure	Precharge pressure	Intel/outlet (inch)	Dimension D (mm)	Dimension H (mm)
IBO HEATS 8L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	20	33
IBO HEATS 12L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	27	31
IBO HEATS 19L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	27	40
IBO HEATS 24L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	27	46
IBO HEATS 36L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	35	44
IBO HEATS 50L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	35	55
IBO HEATS 80L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	45	59
IBO HEATS 100L	0-99°C	8 bar	12 bar	1.7 bar +/- 10%	¾"	45	65

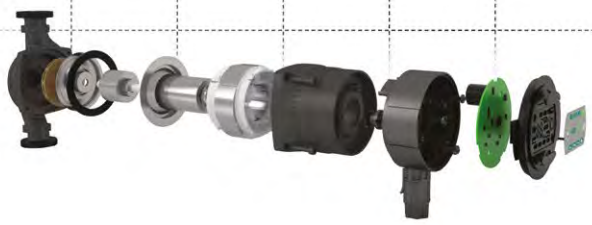
CIRCULATION PUMPS
ZIRKULATIONS-/ UMWÄLZPUMPEN
OBĚHOVÁ / CIRKULAČNÍ ČERPADLA
POMPE DE CIRCULAȚIE
ЦИРКУЛЯЦИОННЫЕ НАСОСЫ



3 LATA GWARANCJI

MAGI

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





Energy Efficiency Index for MAGI pumps is

EEI<=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.

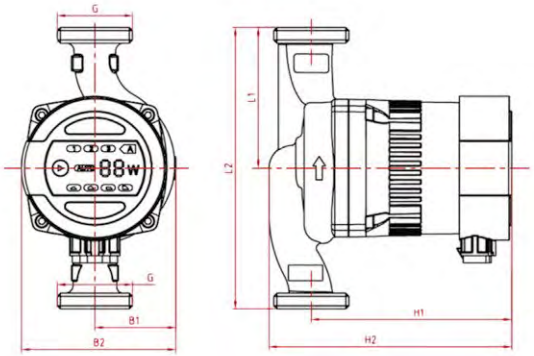
The pump provides 8 operating modes:

- **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	8	6	55	5-45	1½ x 1	130	65	130	52	99	128	156	11/2″
MAGI 25-60/180						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″

MAGI MAX

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





Energy Efficiency Index for MAGI pumps is:

EEI<=0,23

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.

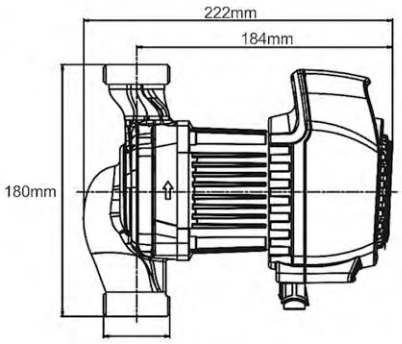
The pump provides 9 operating modes:

- **ECO (factory setting)**
  - From highest to lowest proportional pressure characteristic curve
- **PP2/PP3/PP4/PP5** - Proportional pressure curves
- **CP2/CP3/CP4/CP5** - Constant pressure 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.





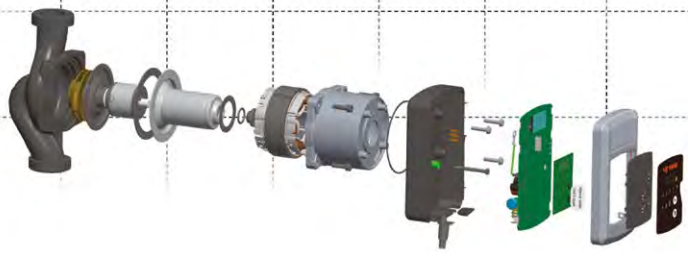
TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	F	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	
	≤ 85 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 95 °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	≤ 110°C	
Pumped liquid temperature range	2~+95°C	
Automatic venting function	YES	

PARAMETERS

MODEL	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)	Weight (kg)
MAGI 25-100/180	9	10	170	10-180	1½ x 1	180	4,5
MAGI 32-100/180	9	10	180	10-180	2 x 1½	180	4,6

MAGI-H

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





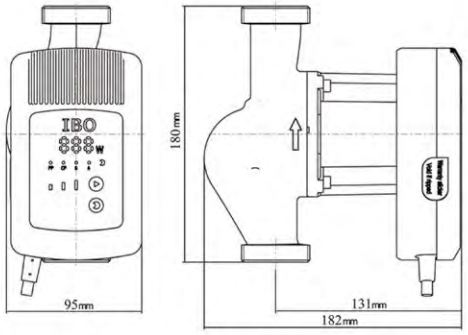
Energy Efficiency Index for MAGI-H pumps is

EEI<=0,23

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

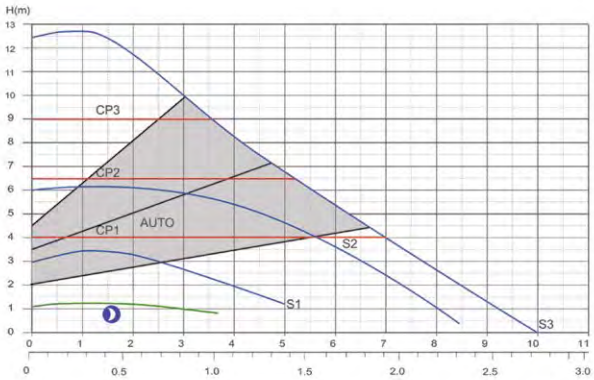
The pump provides 12 operating modes:

- **AUTO (factory setting)** - From highest to lowest proportional pressure characteristic curve
- **I / II / III** - Constant rotational speed curves
- **PP1/PP2/PP3/PP4** - Proportional pressure curves
- **CP1/CP2/CP3/CP4** - Constant pressure curves.



APPLICATION:
MAGI-H 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.



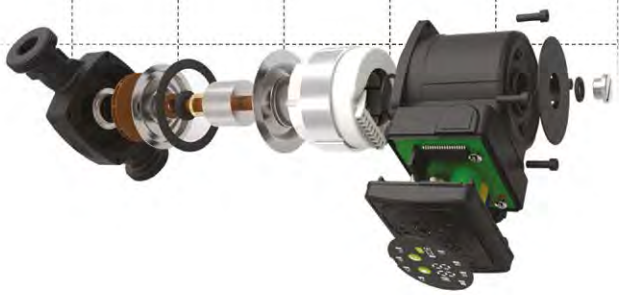
TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 42	
Insulation class	H	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	1 Mpa	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	Min. inflow pressure
	≤ 75 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 110 °C	0.100 MPa
Compliance with the EMC standard	EN61000-4-4	
Operating pump sound pressure	43 dB (A)	
Permissible ambient temperature	0~+40°C	
Maximum heating medium temp.	TF110	
Maximum pump surface temperature	≤ 120°C	
Pumped liquid temperature range	2~+110°C	
Automatic venting function	YES	

PARAMETERS

MODEL	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)	Weight (kg)
MAGI H 25-120/180	12	12	160	14-185	1½ x 1	180	4,9
MAGI H 32-120/180	12	12	160	14-185	2 x 1½	180	5,1

NOVA

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





Energy Efficiency Index for NOVA pumps is

EEI<=0,23

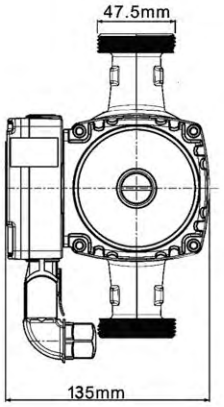
The NOVA circulating pump is equipped with a permanent magnet motor and a pressure differences regulator for automatic and continuous pump capacity adjustment to the actual requirements of the system. The pump control panel is located on top of the motor for easier operation by the user. Current power consumption is displayed on its panel. The pump is supplied with union joints and cable adapter.

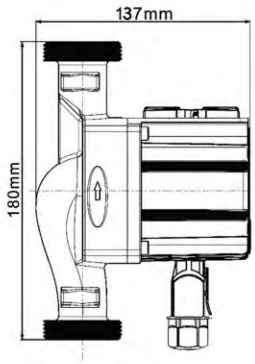
The pump provides 8 operating modes:

- **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:
NOVA 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 44	
Insulation class	F	
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	Min. inflow pressure
	≤ 85 °C	0.005 MPa
	≤ 90 °C	0.028 MPa
	≤ 95 °C	0.050 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 95	
Maximum pump surface temperature	≤ 110°C	
Pumped liquid temperature range	2~+95°C	

PARAMETERS

MODEL	*Operating mode (x1)*	*Head (m)*	*Flow (l/min)*	*Motor power (W)*	*Inlet/outlet diameter (inch)*	*Inlet/outlet spacing (mm)*	*Weight (kg)*
20-40/180	8	4	50	5-22	1½ x 1	180	3
25-60/180	8	6	55	5-45	2 x 1½	180	3
25-60/130	8	6	55	5-45	1½ x 1	130	2,9

BETA 2

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





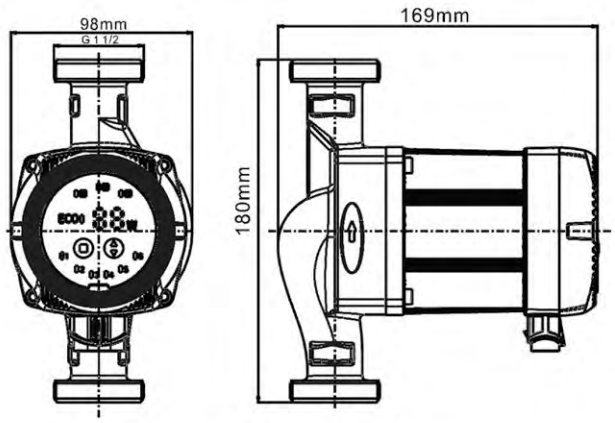
Energy Efficiency Index for BETA 2 pumps is

EEI<=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	Medium temperature	Min. inflow pressure
	≤ 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	

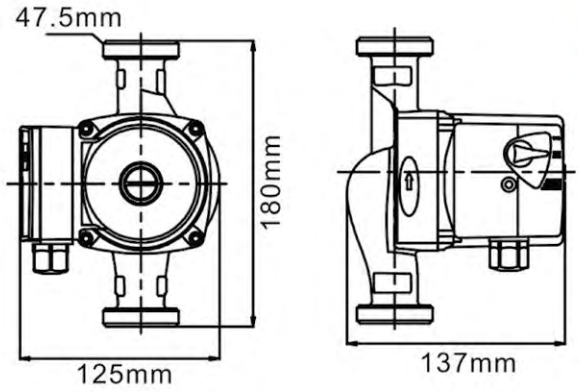
PARAMETERS

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 PRO







OHI PRO series are seal-less circulation pumps with increased durability.
The pumps have a higher density ceramic shaft and plain bearings. Motor durability and better electrical parameters are achieved by using stronger Class F insulation winding. All processes during the manufacture of OHI PRO pumps are carried out by robots. The robots also check the quality of the intermediate products after each stage of production. At the end, the pumps are electrically and hydraulically tested. Due to the automation of the manufacturing process, the final product is of the top quality that is reproducible in every unit. All these actions have allowed us to extend the warranty period to 3 years. The pumps are supplied with union joints and a cable with a plug.

By default, the pumps have 3 speed levels for adjusting operating parameters depending on the user's and system's requirements. Due to the design and high quality materials used, the pumps are very quiet during operation.
The idea behind the creation of the OHI PRO pump was based on the belief that it is necessary to build a device with a more durable and reliable design compared to generally available circulation pumps, as well as a change in the price underselling trends.

All OHI pumps have PZH (National Institute of Hygiene) approval.

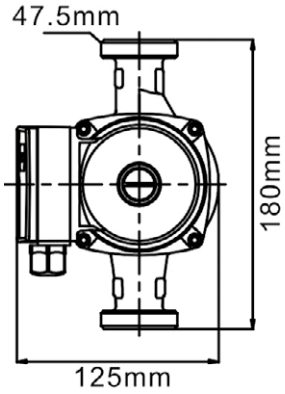
PARAMETERS

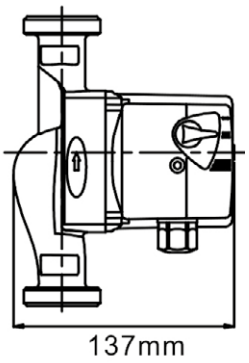
Name	Speed level	Head (m)	Flow (l/min)	Motor power (W)	Pump inlet/outlet diameter/Union joint diameter (inch)	Inlet/outlet spacing (mm)
OHI PRO 15-60/130	1	3	22	46	1 x ¾	130
	2	5	38	63		
	3	6	55	93		
OHI PRO 25-40/180	1	3	18	38	1½ x 1	180
	2	4	36	53		
	3	4,5	48	71		
OHI PRO 25-60/130 OHI PRO 25-60/180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

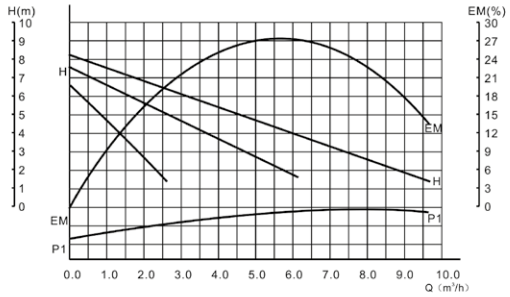
OHI PRO MAX











OHI PRO MAX series are seal-less circulating pumps with increased durability. The MAX pumps have higher operating parameters than the OHI PRO pumps.
The pumps have a higher density ceramic shaft and plain bearings. Motor durability and better electrical parameters are achieved by using stronger Class F insulation winding. All processes during the manufacture of OHI PRO pumps are carried out by robots. The robots also check the quality of the intermediate products after each stage of production. At the end, the pumps are electrically and hydraulically tested. Due to the automation of the manufacturing process, the final product is of the top quality that is reproducible in every unit. All these actions have allowed us to extend the warranty period to 3 years.

By default, the pumps have 3 speed levels for adjusting operating parameters depending on the user's and system's requirements. Due to the design and high quality materials used, the pumps are very quiet during operation.

The idea behind the creation of the OHI PRO pump was based on the belief that it is necessary to build a device with a more durable and reliable design compared to generally available circulation pumps, as well as a change in the price underselling trends.

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 PRO 25-80/180	1	6,5	43	150	1½ x 1	130
	2	7,5	103	220		
	3	8	160	270		
OHI PRO 32-80/180	1	6,5	43	150	2 x 1¼	180
	2	7,5	103	220		
	3	8	160	270		

BETA



Energy Efficiency Index for BETA pumps is

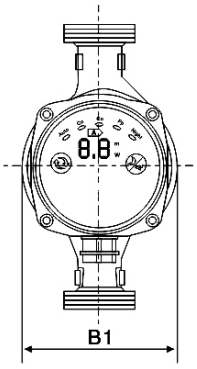
EEI<=0,23

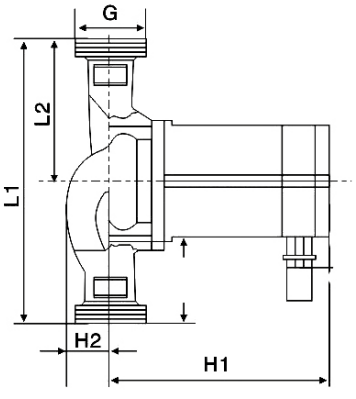
The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings (maximum power consumption amounts to 1/3 of conventional pumps).

Features and advantages:

- High quality design
- Energy saving
- Low-noise operation
- Energy consumption display
- Intuitive control
- Ease of Installation
- Set of union joints and cable with plug

APPLICATION:
The BETA pumps are designed for forcing circulation in central heating systems and solar systems.
In addition to BETA 25-40/180, 25-60/180 and 25-60/130 pumps currently available on the market, two new types with higher head and flow parameters have been introduced:
BETA 25-80/180 and 32-80/180.



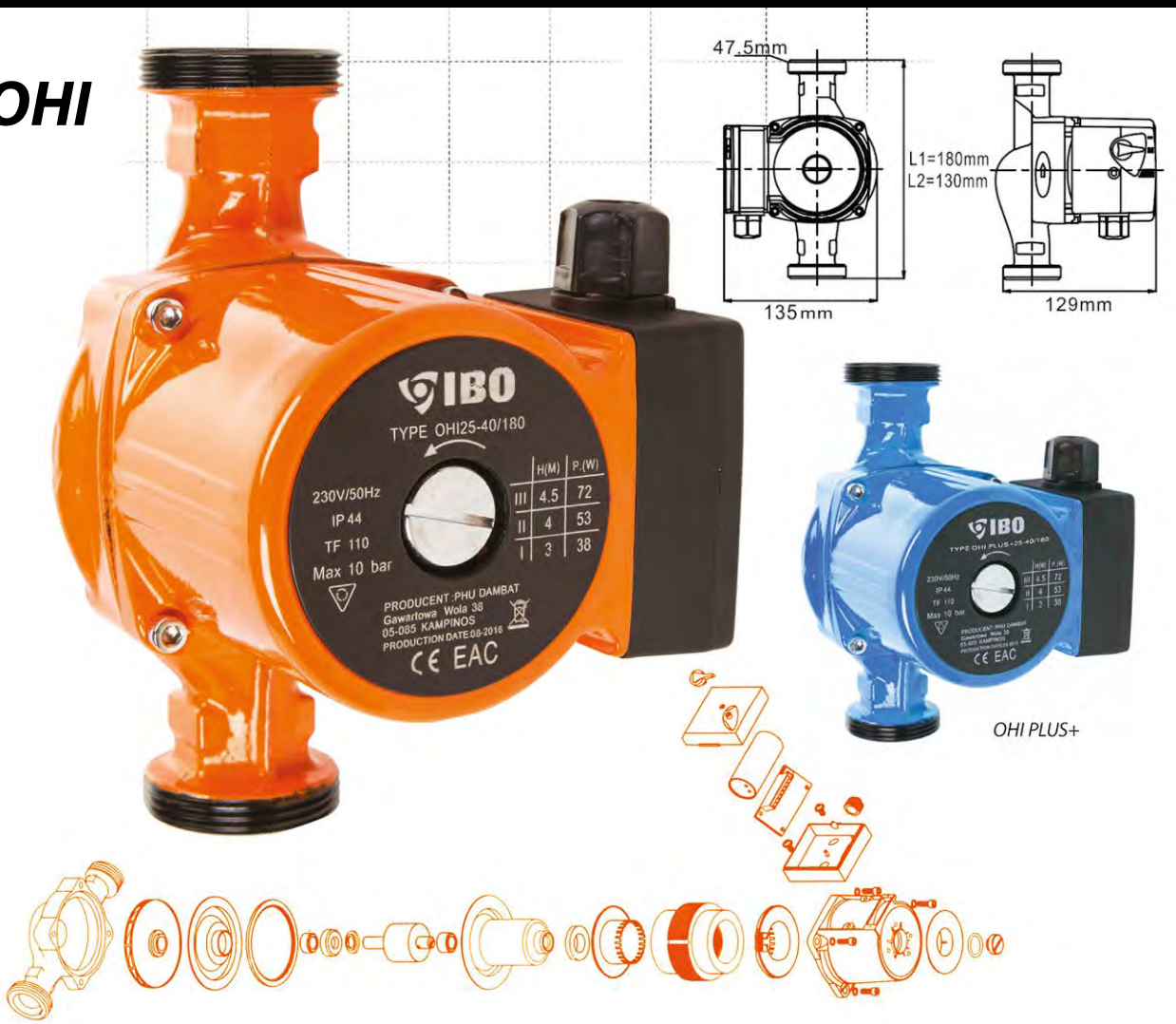


Electronic control allows the user to choose one of 11 operating modes	
Auto	optimal mode adjusting pump parameters to the system requirements
CN	3 modes of constant rotational speed (manual mode), in this mode, the pump operates like a conventional pump
CP	3 modes of constant pressure, in this mode, the pump maintains a constant pressure irrespective of the flow
PP	3 modes of proportional pressure, used when the flow is too low or too high
Night	night mode for lower energy consumption by reducing the pump operating parameters. This mode operates along with the Auto mode. If the water temperature sensor detects a 0.1oC/min. temperature drop within approx. 2 hours, the pump will automatically switch to night mode. If the heating medium temperature increases by approx. 10oC, the pump will automatically return to normal operating mode.
In addition, the pumps are equipped with an electronic display showing the pump's current energy consumption.	

PARAMETERS

MODEL	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Inlet/outlen diameter G (cale)	Inlet/outlet spacing L1 (mm)	Weight (kg)	L2	H1	H2	B1
BETA 25-80/180	8	8	70	60	1½ x 1	180	3,3	90	138	27	116
BETA 32-80/180	8	8	70	60	2 x 1½	180	3,4	90	138	27	116

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		

OHI MAX



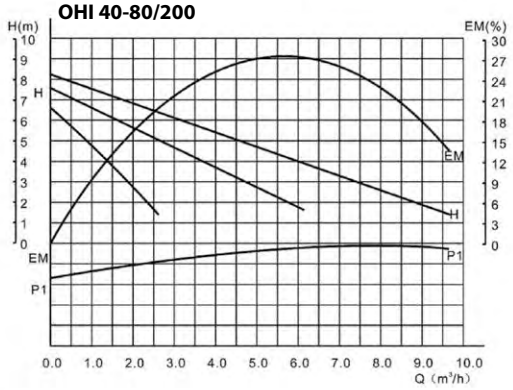
OHI 50-170/250

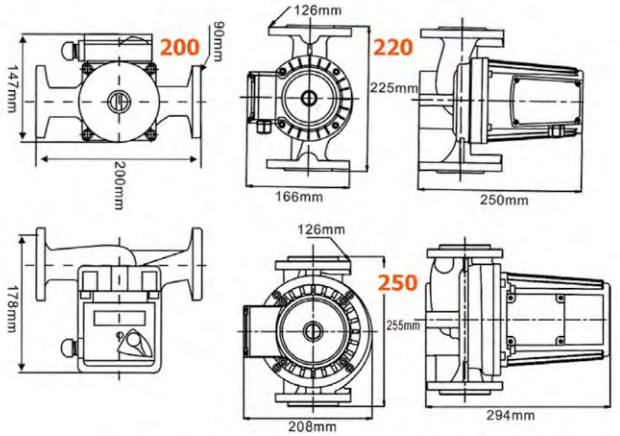


OHI 40-80/200

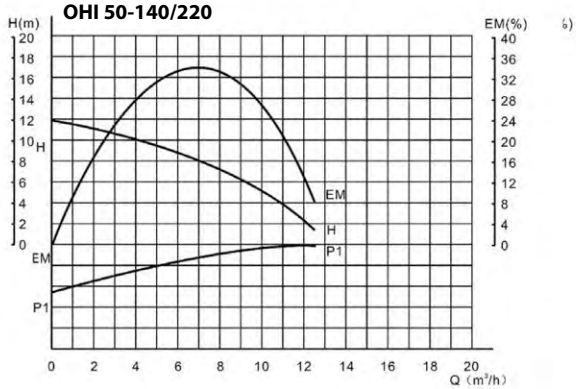
The pumps are made of high quality materials. The pumps are complete with connecting flanges. 550W and 750W seal-less pumps for larger systems. **All OHI pumps have PZH (National Institute of Hygiene) approval.**

OHI 40-80/200

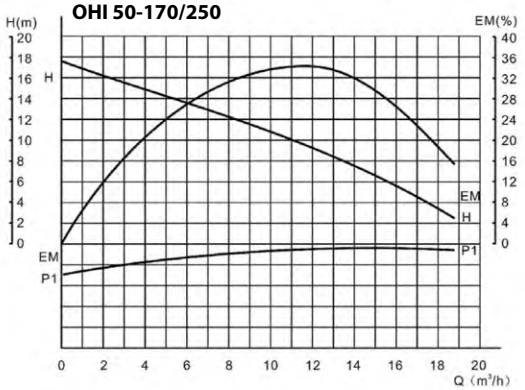




OHI 50-140/220



OHI 50-170/250



PARAMETERS

MODEL	Operating mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Flange diameter (cale)	Flange spacing (mm)	Weight (kg)
OHI 40-80/200	1/2/3	6,5/7,5/8	43/103/160	150/220/270	1½	200	6
OHI 50-140/220	1	12	210	550	2	220	16
OHI 50-170/250	1	16	320	750	2	250	17

STEROWNIK S-100



CONTROLLER FOR CENTRAL HEATING PUMP

The S-100 controller is designed for the central heating circulation pump control.

The controller starts the pump if the temperature exceeds the set value.

This prevents unnecessary pump operation resulting in energy saving (savings up to 60% depend on the boiler load), and extending the pump's life-span. This increases the pump's reliability and reduces operating costs.

The pump activation temperature is adjusted by a potentiometer in the range of 20°C to 80°C. The pump starts if the actual temperature drops by 2°C below the set temperature (adjustable by the potentiometer).

In addition to the potentiometer, the S-100 controller has two switches. The first switch is used to activate the controller (green LED lights up), while the second one (red) is used to manually activate the pump.

Kolejne dwie diody świecące sygnalizują:	
Yellow	operation
Red	sstand-by (stop)
Temperature setting range (set temp.)	20°C - 80°C
Hysteresis	2°C
Voltage	230V/50Hz ± 10%
Power consumption	< 1W
Operating temperature	20°C - 70°C
Temperature sensor	resistance
Wire cross-section	3 x 0,75mm^2
Sensor cable length	3m
Power cable length	1,5 - 2m
Pump power cable length	2m
Pump supply voltage	230V/50Hz
Max. output operational current	1A (relay output)
Dimensions (W x H x500000 L)	59mm x 40mm x 85mm

S-130 CONTROLLER



The S-130 controller is designed for the central heating circulation pump control.
The controller starts the pump if the temperature exceeds the set value. This prevents unnecessary pump operation resulting in energy saving (savings up to 60% depend on the boiler load), and extending the pump's life-span. This increases the pump's reliability and reduces operating costs. The pump activation temperature is adjusted with the "+" and "-" buttons after short pressing the "MENU" button within the setting range from -50˚C to 110˚C. Hysteresis is adjustable from 0.1˚C to 30˚C.

Inverted hysteresis function - soft stop.
An example: Temperature set to 35˚C (bottom display) Hysteresis 2˚C

Central heating pump will be activated at 35˚C + 2˚C = 37˚C and stopped at 35˚C. The controller is equipped with 2 LED displays (3 digits each).

The current temperature measured by the sensor is displayed on the top display, white the set temperature is shown on the bottom display. Pressing the MENU button activates the controller's preview mode and the set temperature settings. Pressing the "MENU" button once will display the temperature setting function (the bottom display will flash).

The temperature is changed by pressing the "+" and "-" buttons. Longer pressing and holding the MENU button (for approx. 3s) will display P0 menu level. Now, the "+" and "-" buttons can be used to move to the next menu levels (P0-P3) to change the settings of various controller functions. When required menu level (P0-P3) is open, press the "+" and "-" buttons together, the bottom display will start flashing.
Now, the "+" and "-" buttons can be used to change setting of a given function. After changes, the controller automatically saves the function parameters. The regulator is protected with a WT 1A fine fuse.

Technical Data	
Temperature setting range (set temp.)	-50ºC -110ºC
Hysteresis	0,1ºC - 30ºC
Supply voltage	230V/50Hz±10%
Power consumption	< 2W
Operating temperature	- 20ºC - 60ºC
Temperature sensor	RESISTANMCE
Sensor cable length	~ 1m
Power cable length	1,4 – 2m
Pump power cable length	1,50 m
Exit	230V/50Hz
Max. output operational current	pump 1A (resistance load)
Dimensions (W x H x L)	74 x 40 x 145

NOVA-PG

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



Energy Efficiency Index for NOVA-OG pumps is

EEI<=0,23



The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings (maximum power consumption is 1/3 of conventional pumps).

Features and advantages:

- High quality design
- Energy saving
- Low-noise operation
- Energy consumption display
- PWM signal support

APPLICATION:
The NOVA-PB pumps are designed to increase water pressure in gas boilers and other heating and cooling systems.

Electronic control allows the user to choose one of 11 operating modes	
ECO	optimal mode adjusting pump parameters to the system requirements
I/II/III	3 modes of constant rotational speed (manual mode), in this mode, the pump operates like a conventional pump
CP1/CP2	3 modes of constant pressure, in this mode, the pump maintains a constant pressure irrespective of the flow
PP1/PP2	3 modes of proportional pressure, used when the flow is too low or too high
Night	night mode for lower energy consumption by reducing the pump operating parameters. This mode operates along with the Auto mode. If the water temperature sensor detects a 0.1oC/min. temperature drop within approx. 2 hours, the pump will automatically switch to night mode. If the heating medium temperature increases by approx. 10oC, the pump will automatically return to normal operating mode.
Dodatkowo pompy zostały wyposażone w elektroniczny wyświetlacz prezentujący aktualne zużycie prądu przez pompę.	

TECHNICAL DATA		
Supply voltage	1×230V +6%/-10%, 50Hz	
Motor protection	No additional motor protection is required	
Ingress Protection	IP 44	
Insulation class	F	
Maximum ambient relative humidity	≤ 95%	
Maximum central heating system pressure	3 bar	
Maximum suction-side inflow pressure depending on the heating medium temperature	Medium temperature	
	≤ 75 °C	0.005 MPa
	≤ 80 °C	0.028 MPa
	≤ 85 °C	0.050 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 85	
Maximum pump surface temperature	≤ 90°C	
Pumped liquid temperature range	2~+85°C	

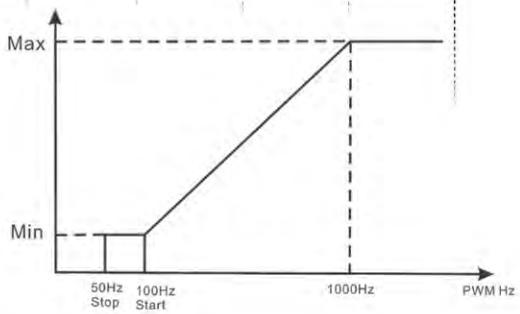
PARAMETERS

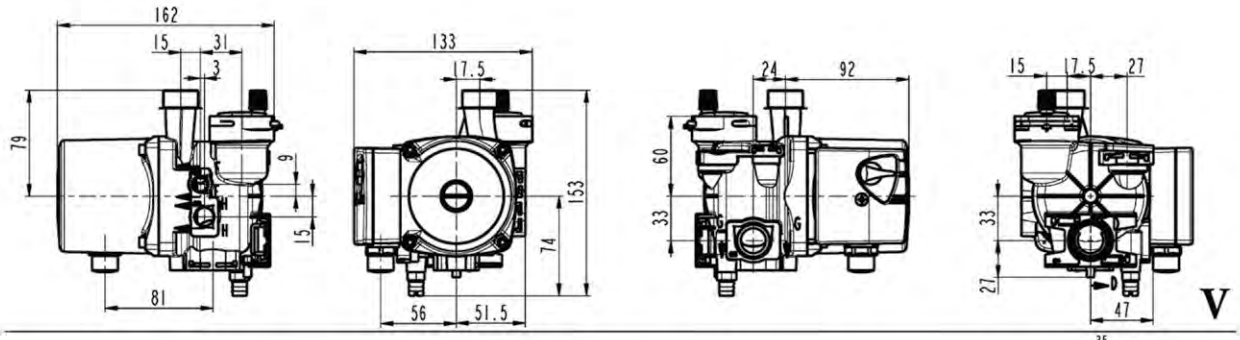
MODEL	*Operating mode (x1)*	*Head (m)*	*Flow (l/min)*	*Motor power (W)*	*Weight (kg)*
NOVA-PG 15/5	8	5	29	5-32	2
NOVA-PG 15/6	8	6	32	5-45	2
NOVA-PG 15/7	8	6,5	33	5-47	2

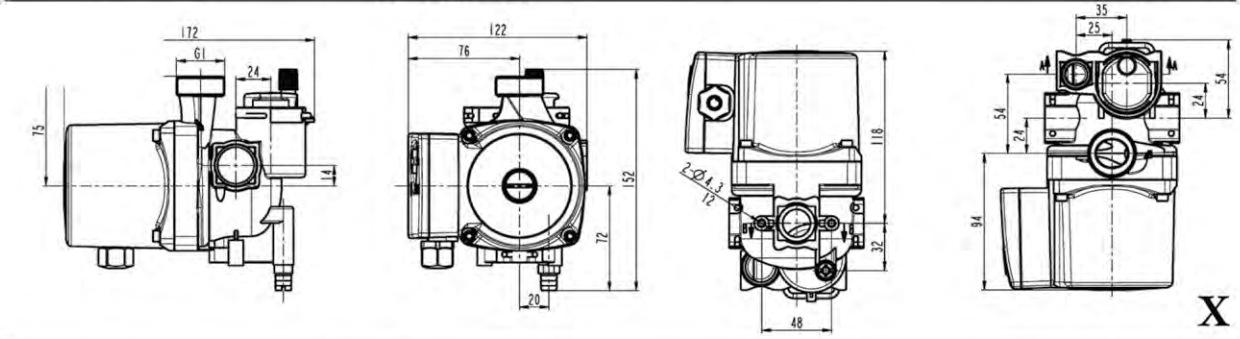
PWM input signal [frequency]

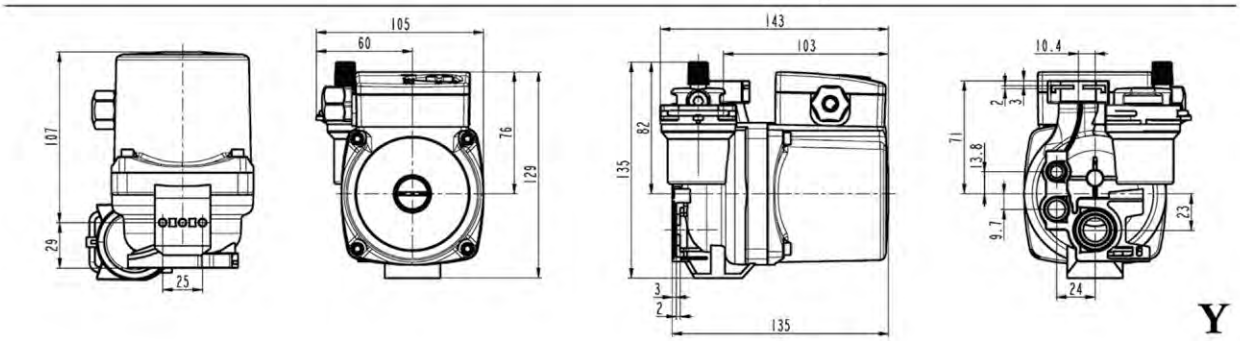
- <50Hz - Pump stops
- 50Hz ~ 100Hz - Pump starts at a minimum speed
- 100Hz ~ 1000Hz - Pump starting increases linearly from min. to max.
- > 1000Hz - Pump operates at full speed











W15 IH-10



Surface pump designed for increasing pressure in hydraulic systems. The pump can be used as a circulator for some industrial equipment, such as machines, laser devices, injection moulding machines, food processing machinery, and can also supply water to small boilers. The pump is designed to operate with cold and hot water. The set includes an automatic switch for pump operation control. The pump inlet/outlet and impeller are made of brass. An important advantage of the pump is its low-noise operation and compact size, therefore it can be installed in residential premises.

APPLICATION:

- Increasing pressure in systems with water heaters.
- Increasing pressure in water supply systems.
- By using the pump, regardless of the pressure and its changes in the water supply system, it is possible to increase the pressure and keep it constant.
- Increasing pressure in multi-storey water systems.
- Aeration and water circulation in fish keeping.

PARAMETERS

MODEL	Max wydajność (l/min)	Max. head (m)	Power (W)	Voltage (V)	Amperage (A)	Inlet/outlet (inch)	Max. temperature (C°)
W15IH-10	20	10	90	230	0,45	¾ - ½	110
W15IH-10 economy	20	10	90	230	0,45	¾ - ½	110

CIRCULATION PUMPS

Circulation pumps with brass body



BETA 25-60/130

BETA 25-60/130 BR

Circulation pumps with brass body

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

The pumps are equipped with an electronic processor for automatic pump control, which together with a frequency converter allows for significant energy savings. Energy Efficiency Index for BETA pumps is EEI<=0.23. The pumps are equipped with an electronic display showing current energy consumption.

OHI 15-60/130 BR

OHI 25-60/130 BR

Circulation pumps for hot water systems

Seal-less 3-speed circulation pumps designed for forcing domestic hot water circulation in larger systems.
The pump is usually installed upstream the boiler or hot water tank.



OHI 15-60/130



The pumps have PZH (National Institute of Hygiene) approval.

PARAMETERS

Name	Speed level / Mode (x1)	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)
BETA 25-60/130 BR	11	6	55	45	230	1½ x 1	130
OHI 15-60/130 BR	1/2/3	3/5/6	22/38/55	46/63/93	230	1 x ¾	130
OHI 25-60/130 BR	1/2/3	3/5/6	22/38/55	46/63/93	230	1½ x 1	130

CPI 15-15

Circulation pumps for hot water systems



brak tłumaczenia w tabelce

Seal-less circulation pumps designed for forcing hot water circulation. In systems without hot water pumps, after opening the tap, before the hot water starts flowing, cool water remaining in the pipeline will flow first. If a hot water pump is installed, hot water will flow almost immediately after opening the tap. The pump is usually installed upstream the boiler or hot water tank. With years of experience, we have been able to improve previous designs and create the top quality pump.

Using the latest technology, the efficiency and, consequently, the energy consumption have been improved compared to older designs.

Brass body and ceramic shaft guarantee the pump is almost faultless.

The pumps have PZH (National Institute of Hygiene) approval.

ADVANTAGES:

- Robust design
- Low-noise operation
- Hassle-free control
- Easy installation
- Complete with cable and plug.

TECHNICAL DATA	
TYP:	CPI 15-15
Motor power	28 W
Voltage	230V~ / 50Hz
Obroty silnika	2600 obr/min
Amperage	0,3 A
Ingress Protection	IP42
Maksymalne ciśnienie robocze	10 bar (1 000 000 Pa)
Flow (l/min)	7,5
Head(m)	1,7
Temperatura cieczy	2 - 95°C
Minimalne ciśnienie na ssaniu	0,4 bar(40 000Pa) dla 95°C 0,2bar(20 000 Pa) dla 65°C
Długość montażowa	85 mm
Króćce ssący/tłoczny (dla śrubunków)	½"

PARAMETERS

Name	*Speed level (x1)*	*Head (m)*	*Flow (l/min)*	*Motor power (W)*	*Voltage (V)*	*Inlet/outlet diameter (inch)*	*Inlet/outlet spacing (mm)*
CPI 15-15	1	1,7	7,5	28	230	½	85

E-IBO 15-14



Compared to traditional circulation pumps, the energy consumption of the E-IBO pumps can be as low as 3W depending on the system.

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

The E-IBO 15-14 pumps are designed for continuous operation forcing the hot water circulation, and in small heating systems. The pumps can be used in ventilation and air-conditioning systems. By using circulation pumps, water consumption is significantly reduced.

Compared to traditional circulation pumps, using the permanent magnet motor allows to reduce the energy consumption of the E-IBO pumps to as low as 3W depending on the system. The pumps are equipped with a spherical impeller operating in various planes.

FEATURES:
- Pump parameters can be automatically or manually adjusted to the system requirements.
- A spherical Noryl impeller moves in various planes.
- Wear-resistant ceramic shaft .
- Stainless steel pump body.
- Power cable with a plug.

ADVANTAGES:
- Easy installation and start up
- Low power consumption
- High energy efficiency has been achieved by using the permanent magnet motor.
- Maximum usability
- Robust design
- Low-noise level of the pump and the entire system.

TECHNICAL DATA	
ZASILANIE ELEKTRYCZNE	1×230V +6% / -10%, 50Hz PE
ZUŻYCIE ENERGII	3 - 9 W
ZABEZPIECZENIE SILNIKA	Nie ma potrzeby dodatkowego zabezpieczenia silnika
INGRESS PROTECTION	IP 44
KLASA IZOLACJI	H
MAKSYMALNA WILGOTNOŚĆ WZGLĘDNA OTOCZENIA	≤ 95%
MAKSYMALNE CIŚNIENIE W UKŁADZIE CO	1 MPa
MINIMALNE CIŚNIENIE NAPŁYWU NA SSANIU	2 m H_2O
CIŚNIENIE AKUSTYCZNE PRACUJĄCEJ POMPY	43 dB (A)
DOPUSZCZALNA TEMPERATURA OTOCZENIA	0 ~ + 40°C
MAKSYMALNA TEMP. CZYNNIKA GRZEWCZEGO	TF95
ZAKRES TEMPERATUR POMPOWANEJ CIECZY	2 ~ + 95°C
KRÓĆCE	½"
ROZSTAW KRÓĆCÓW	85 mm

brak tłumaczenia w tabelce

PARAMETERS

Name	Speed level (x1)	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Inlet/outlet diameter (inch)	Inlet/outlet spacing (mm)
E-IBO 15-14	AUTO	1,2	12	9	230	½	85

IPML

INDUSTRIAL CIRCULATION PUMPS FOR CIRCULATING COLD AND HOT WATER.

Pumps designed for constant or variable flow water supply systems with the medium temperature not exceeding 100°C (80°C) and the pressure not exceeding 0.6 MPa. Pumps are most often used in heating and cooling systems. The smallest of the series, the IPML 25/125 pump can also be used to fill solar systems. The IPML 50/1100 and 50/2200 water circulation pumps are intended for water containing non-abrasive and non-absorbent solid impurities of 0.27 kg/m3.



Operating conditions:

- Maximum liquid temperature 80 /100°C
- Maximum ambient temperature 40°C
- Class B/F Insulation
- Operating mode - continuous
- Protection - IP44
- Protection for 230V motors
- Rotational speed of the electric motor: 2850RMP

Materials:

- Pump body: cast iron
- Bearing retainer: cast iron
- Motor housing: aluminium
- Shaft and rotor: stainless steel AISI 304
- Impeller: brass (to IPML 50/1100)
- Impeller: cast iron (from IPML 50/1500))
- Mechanical seal: ceramics/graphite/NBR





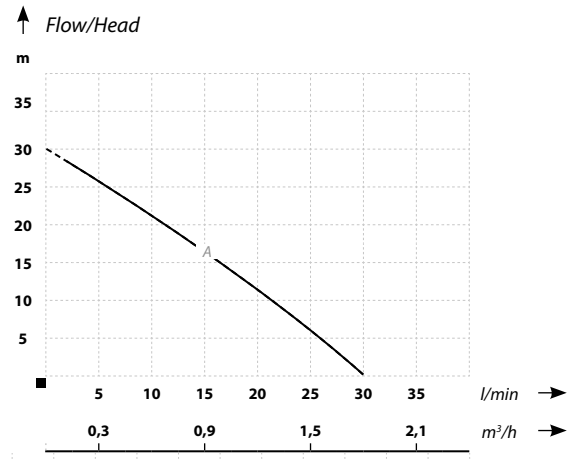


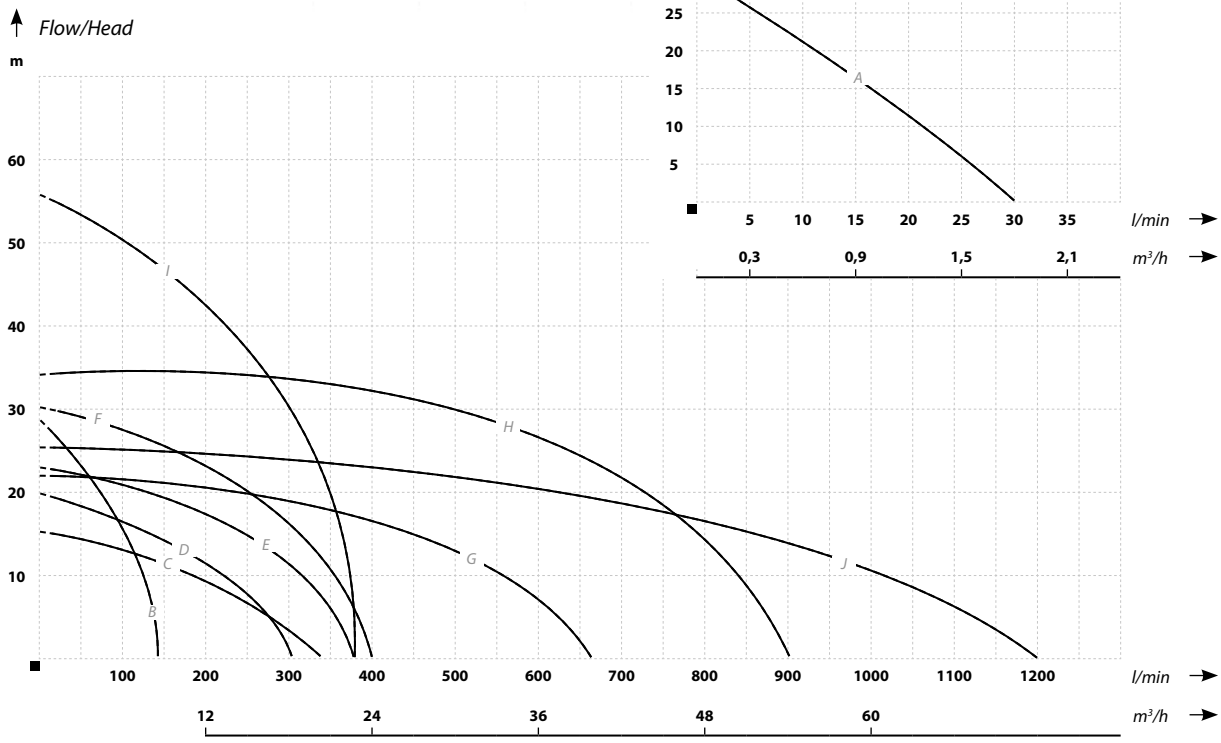
PARAMETERS

Name	Motor power (W)	Head (m)	Flow (l/min)	Voltage (V)	Inlet/outlet (inch)	Inlet/outlet spacing (mm)	Curve no.	Max temp madium (°C)
IPML 25/125	125	30	30	230	½	-	A	100
IPML 25/750	750	28	140	230	1	280	B	100
IPML 50/750	750	14	340	230	2	280	C	100
IPML 50/1100	1100	20	300	230	2	280	D	100
IPML 50/1500	1500	22	380	400	2	312	E	80
IPML 50/2200	2200	30	400	400	2	312	F	80
IPML 50/5500	5500	55	380	400	2	343	I	80
IPML 65/3000	3000	22	660	400	2½	343	G	80
IPML 65/4000	4000	34	900	400	2½	343	H	80
IPML 80/5500	5500	25	1200	400	3	343	J	80

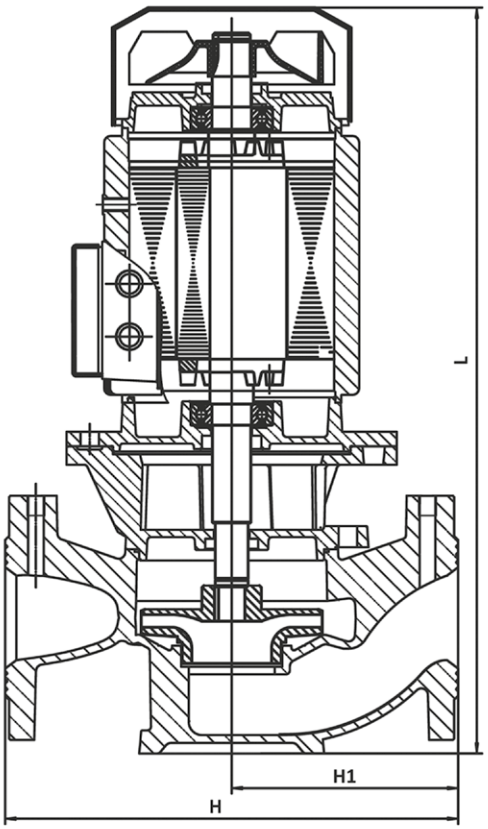
IPML

INDUSTRIAL CIRCULATION PUMPS
FOR CIRCULATING COLD AND HOT WATER.

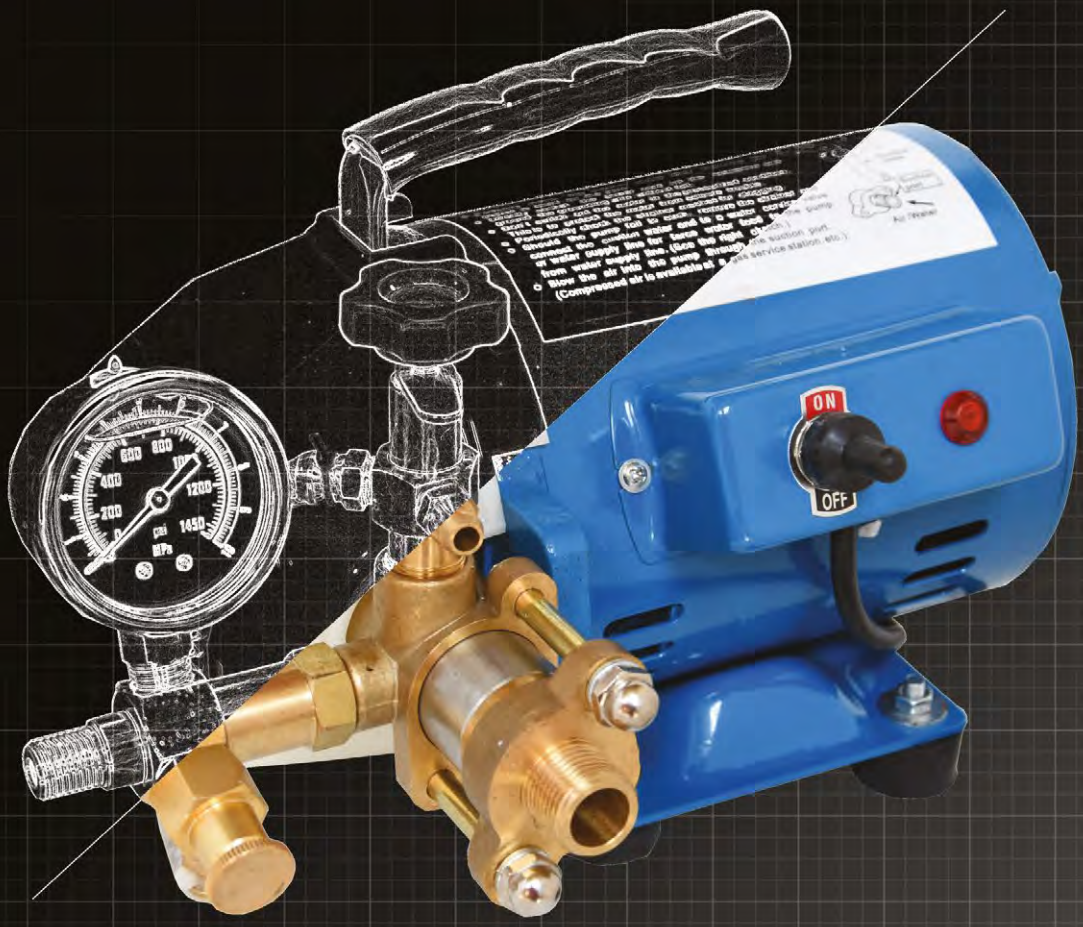




Name	Curve no.	H	H1	L	Weight (kg)
IPML 25/125	A	255	160	219	7,8
IPML 25/750	B	282	141	372	16,1
IPML 50/750	C	280	140	372	20,1
IPML 50/1100	D	280	140	372	29,4
IPML 50/1500	E	312	156	397	34,6
IPML 50/2200	F	312	156	397	36,8
IPML 50/5500	G	360	180	610	58
IPML 63/3000	H	343	171,5	565	66
IPML 65/4000	I	356	178	615	70,5
IPML 80/5500	J	400	200	640	76



SPECIAL PUMPS
SPEZIALPUMPEN
SPECIÁLNÍ ČERPADLA
POMPY SPECIALE
СПЕЦИАЛЬНЫЕ НАСОСЫ



PR – 50

HAND HYDRAULIC PRESSURE TEST PUMP



The PR-50 hand pump is a piston pump designed for pressure testing of system tightness and for filling solar system. The main advantage of the pump is that it can be used without access to electric power.

Due to its open design, the pump can also be used as a 12 L vessel. The proven and durable design make the pump very popular among installers.

OPERATING INSTRUCTIONS:
Connect the end of the pressure hose to the tested system, then filled the pump tank with clean, preferably filtered water. Next, fill the system with water. The test pump is only used to fill the final amount of liquid required to achieve the desired pressure. Open V1 valve and close V2 valve.

After connecting the pump, filling the pump and the tested system with water, opening the V1 valve and closing the V2 valve, pump the water with a lever while checking the pressure gauge reading. Once the required pressure has been achieved, close the V1 valve. If, by mistake, the test pressure is slightly exceeded after closing the V1 valve, slightly open the V2 valve.
The pressure will then start to drop.

APPLICATION:
- Tightness testing of pipe systems (water supply systems, central heating, compressed air, and oil systems).
- Tightness testing in the production of boilers and pressure vessels.
- Filling solar systems.
- Injecting antifreeze agents into existing central heating systems.

ADVANTAGES:
- 1.3m steel braided discharge hose - reduction of flow losses and limiting measurement errors.
- Durable piston lever - resistant to torsion, can be used as a pump carrying handle.
- The double cut-off valve system in the
- monobloc body guarantees a constant pressure and eliminates the leaks at union joints.

PARAMETERS

Name	Objętość robocza/ruch tłoka (ml/skok)	Tank capacity litre (l)	Max. pressure MPa/bar/kg) (cm2)	Inlet/outlet (inch)	Dimensions L/H/W (cm)	Weight (kg)
PR – 50	45	12	5/50/50	1	49/16,5/16,5	7,8

PR – AUTO

ELECTRIC HYDRAULIC PRESSURE TEST PUMP

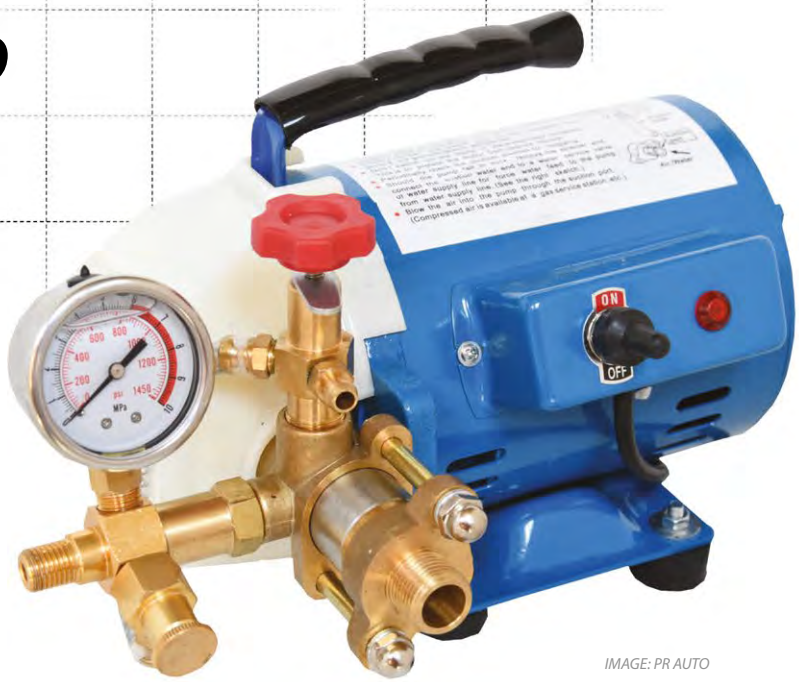


IMAGE: PR AUTO





Electric pump designed for pressure testing of system tightness and for filling solar system. The pump's electric motor makes its use exceptionally easy and comfortable. The pump comes with a liquid container, suction hose, high pressure hose, overflow hose and suction filter. Unlike the PR AUTO hand pump, it can also be used to fill the systems with water.

OPERATING INSTRUCTIONS:
Connect the suction to the filter and then connect it the pump along with the overflow and high pressure hose.

Loosen the pressure adjustment screw to prevent the sudden pressure increase after starting the pump.

When the suction hose with the connected filter and the overflow hose are placed in a container with water, close the valve to which the high pressure hose (black) is connected.

After setting the desired pressure with the pressure adjusting screw, you can start filling the system.

APPLICATION:
- Tightness testing of pipe systems (water supply systems, central heating, compressed air, and oil systems).
- Tightness testing in the production of boilers and pressure vessels.
- Filling solar systems.
- Injecting antifreeze agents into existing central heating systems.

ADVANTAGES:
- Can be used to fill the system
- Automatic operation - pump equipped with an electric motor
- The pump packaging can also be used as a water tank
- All hoses and filter included
- Easy-to-use

PARAMETERS

Name	Voltage (V)	Flow (l/h)	Max. pressure MPa/bar/kg (cm^2)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)
PR – AUTO	230	174	6/60/60	250	39/29/29	14

AOP - PUMPS / OIL SETS

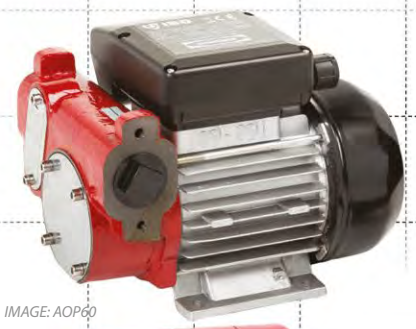


IMAGE: AOP60



IMAGE: AOP55



IMAGE: AOP60 E Set



IMAGE: AOP60 Set



AOPs are displacement vane pumps designed for pumping diesel fuel, heating oil and bio-diesel fuel. The pumps are equipped with thermal protection mounted in the motor winding.

AOP 60 and AOP 55 pumps are powered by 230 V/50 Hz single-phase AC. AOP40 - 12 V and AOP70 - 12/24 V pumps are power by 12 V or 24 V DC batteries. The pumps are equipped with a by-pass excess flow valve.

APPLICATION:
The pumps are used in industrial, agriculture and domestic applications.
AOP 60 pumps are also available in professional pump sets with complete fittings.

The set includes:

- AOP pump
- Frame for transporting and stable installation of the set.
- Oil filter to prevent solid particles such as sand, filings etc. from getting into a pump.
- Gun (filler nozzle) with automatic flow cut-off and swivel connector. The gun returns when a tank is fully filled.
- Mechanical flow meter (AOP 60, AOP 80 set, accuracy ± 1%) with a three-digit erasable dial and non-erasable total meter.
- Electronic flow meter (AOP 60E set, accuracy ± 0.5%) with a seven-digit erasable display and non-erasable total meter.
- 4 m delivery-side oil-resistant rubber hose.
- 2 m suction-side oil-resistant rubber hose with non-return valve and a suction strainer.

APPLICATION:

Transport companies, agriculture farms, industrial plants. Its handy housing ensures comfortable handling between the barrels, tanks or stationary installation.

PARAMETERS

Name	Head (m)	Flow (l/min)	Motor power (W)	Voltage (V)	Inlet/outlet (inch)
AOP 40 - 12 V	10	40	160	12	¾"
AOP 70 - 12 V	20	55	550	12/24	¾"
AOP 55 / AOP 55 set	15	55	155	230	¾"
AOP 60 / AOP 60 set	30	60	370	230	1"
AOP 60 E set	30	60	370	230	1"

BZP / H-BZP

INTERNAL COMBUSTION PUMPS



IMAGE: BZP-10



IMAGE: BZP-20

Pumps mounted on a metal support frame. Used for draining and irrigation. The pumps are designed for pumping clean and dirty water with solids of a maximum size permissible in accordance with technical parameters. The pumps are an excellent solution for civil engineering, fire services and agriculture farms. The pumps with internal combustion engines are fully independent of the electricity network, therefore they are very popular among the customers. The set includes a metal frame holding the entire internal combustion system, i.e. a petrol engine, fuel tank and pump with inlets and outlets.

General purpose SAE 10W-30 oil should be used with the BZP pump motor;

Two types of hoses are required for the pump:

- The suction hose must be leak-proof along its entire length and should have a rigid braid to prevent it from sucking in / jamming during operation. The hose diameter must match the pump inlet diameter, the hose diameter must not be smaller. Mount a suction strainer with a non-return valve at the end of the suction hose.
- The discharge hose diameter should match the outlet diameter. Woven (fire) hoses can be used as discharge hoses.

PARAMETERS

Name	Engine type (strokes)	Engine rotational speed (rpm)	Fuel/oil tank capacity (L)	Fuel type	Power (HP)	Weight (kg)
BZP-10	2	6500	1,2	**PB95**	2	9
BZP-20	4	3600	3,6 / 0,6	**PB95**	6,5	23
BZP-30	4	3600	3,6 / 0,6	**PB95**	6,5	26
H-BZP-20	4	3600	3,6 / 0,6	**PB95**	6,5	28
H-BZP-30	4	3600	6,5 / 0,6	**PB95**	13	53

Name	Max. flow [l/min]	Max. head [m]	Max. suction depth [m]	Maksymalna temperature cieczy (°C)	Maximum pressure	Inlet/outlet	Dimensions
BZP-10	200	33	7	35	3	1 x 1	340x250x340
BZP-20	600	30	7	35	3	2 x 2	510x390x465
BZP-30	1000	30	7	35	3	3 x 3	510x390x465
H-BZP-20	600	70	7	35	7	2 x 2	510x390x465
H-BZP-30	700	95	7	35	9,5	3 x 3	530x410x470

PRO / PRN

TRACTOR PUMPS

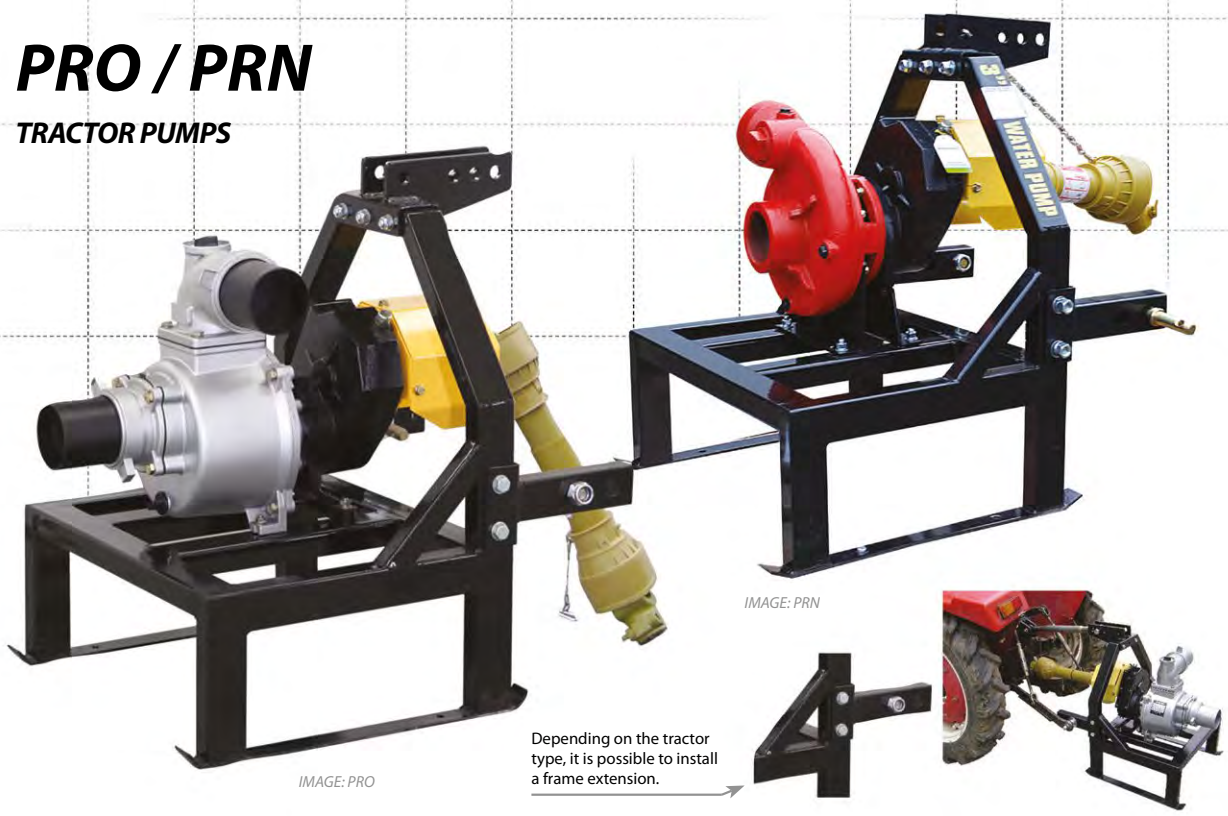


IMAGE: PRO

IMAGE: PRN

Depending on the tractor type, it is possible to install a frame extension.

Tractor pumps mounted on painted steel frames equipped with a three-point suspension system on the tractor.
Depending on the tractor type, it is possible to install a frame extension.
The pumps are driven by a power take-off shaft (PTO). Required tractor PTO shaft revolutions are 540 rpm. Via the PTO shaft (shaft included), the revolutions from the PTO are transferred to a 6.6 gear ratio gearbox that drives the pump. The minimum tractor power required to drive the pump is 15 HP, the maximum 125 HP.

PRO
Single-stage, self-priming PRO tractor pumps are designed for drainage and irrigation. They can pump dirty water (including slurry). The maximum suction capacity of the pump after priming is 7 m. The pumps are ideal for fighting floods.

PRN
Single-stage centrifugal non-self-priming PRN tractor pumps (before starting, the pump and the suction hose must be primed) can be used for pumping water from ponds, lakes, rivers, impounding reservoir and wells, where the water level during pumping does not fall below 6 m from pump inlet. The pumped water must be clean, without solid impurities. The pump is designed to supply water to all types of irrigation systems that require higher pressure. It can be used in vegetable farming, horticulture, tree nurseries and other agricultural production.

The PTO shaft is supplied with the pump.

SPECYFIKACJA	
ZAPOTRZEBOWANIE MOCY Z CIĄGNIKA [KM]	15-125
WYMAGANE OBROTY WOM [OBR/MIN]	540
WAŁEK WOM	Średnica : 1-3/8", 6-ciowpustowy
STOPNIE REDUKCJI REDUKTORA	Pojedyńcza redukcja
PRZEŁOŻENIE REDUKTORA	1 do 6.67
REKOMENDOWANY OLEJ PRZEKŁADNIOWY	Olej przzekładniowy SAE 90
SMAR WAŁKA PRZEKAŹNIKA MOCY	Smar litowy

Brak tłumaczenia tabelki

PARAMETERS

Name	Head (m)	Flow (l/min)	Outlet (inch)	Outlet (inch)	Suction capacity (m)	PTO revolutions / pump revolutions (1/min)	Weight netto (kg)
PRO	30	1000	3	3	7	540/3600	50
PRN	70	750	3	3	6	540/3600	65

PISTON PUMPS
CLASSIC / DECORATIVE ABYSSINIAN PUMP



IMAGE: Baseplate / Classic Abyssynian Pump



IMAGE: Baseplate / Decorative Abyssinian Pump

Hand cast iron pumps intended for pumping clean cold water from underground intakes.

The pumps have a simple and durable design with resistance to wear and tear.

Pumping is done by means of a piston with cup leather packing mounted in the pump body. The piston is human-powered via a rod and external lever.

Abyssinian pumps are used mostly in places where electricity is not available. Pumps are available in two versions: classic - green and decorative with ornaments - black.

Both versions are available in sets with cast iron baseplates.

Application (the same for both pumps):
Supply of water from underground intakes to allotments, gardens, and in places where electricity is not available. Due to their attractive design, the pumps can be decorative features in the garden.

TECHNICAL DATA:
- Casting: cast iron
- Piston: cast iron with cup leather packing
- Body: vertical orientation with pressing
- Non-return valve: yes

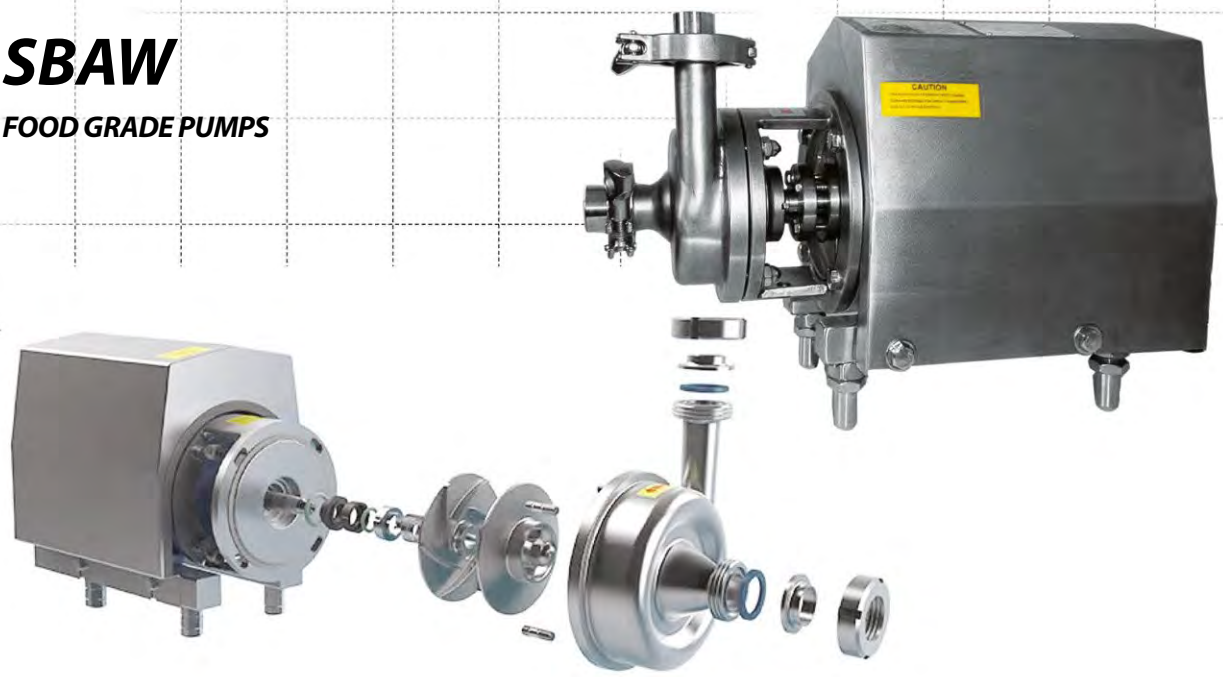
ADVANTAGES:
- Robust design
- Easy water suction
- Simple design
- Faultless
- Easy installation and removal
- Attractive design
- Cost-free use

PARAMETERS

Name	*Suction capacity (m)*	*Flow (l/min)*	*Piston diameter (mm)*	*Suction pipe diameter (cale)*	*Pump height (cm)*	*Base plate height (cm)*	*Weight (kg)*
ABYSSINIAN PUMP	7	28	75	1¼	68	67	15
DECORATIVE ABYSSINIAN PUMP	7	28	75	1¼	68	67	15

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).

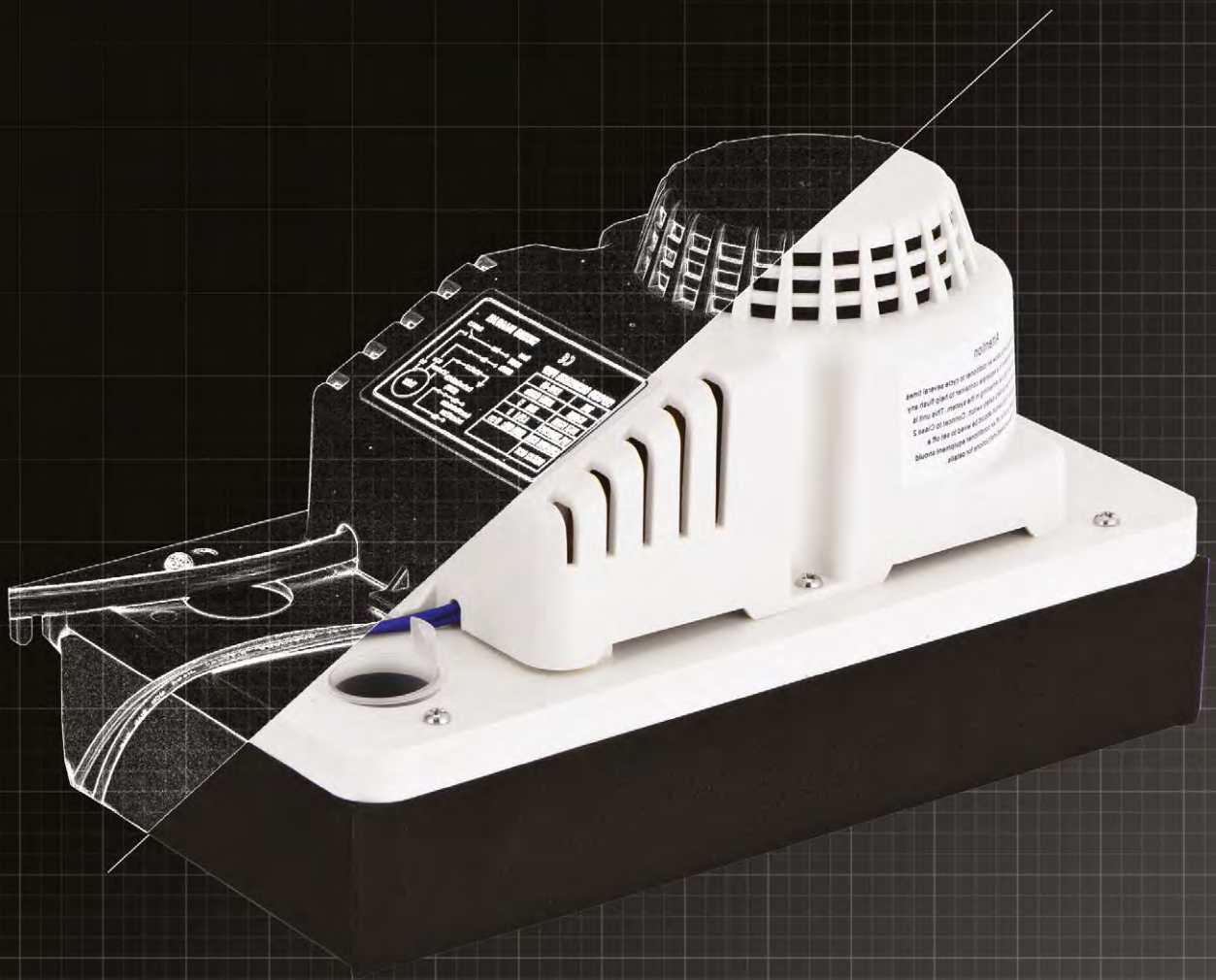
PARAMETERS

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

SANITARY PUMPS
SANITÄRPUMPEN
SANITÁRNÍ ČERPADLA
POMPE SANITARE
САНИТАРНЫЕ НАСОСЫ



CONIBO / CONAQUA



IMAGE: Conibo

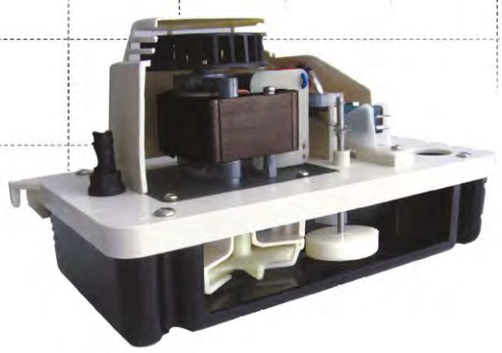


IMAGE: CONAQUA



IMAGE: Conio hose



IMAGE: CONAQUA

CONIBO
The CONIBO pump is a compact device designed for pumping condensate. The pump is fully automatic. After filling the tank, the pump automatically starts, and after draining the condensate it automatically stops. 3/8 inch diameter and 6 m long transparent discharge hose is supplied with the pump. The pump is suitable for short-time pumping of water at 50°C. The pump can operate with water with pH range from 2.5 to 10. The pump has been designed for faultless operation in professional air conditioning systems. Its most important features are low-noise operation and compact size. The pump is fully automatic and maintenance free, which guarantees comfort of use. The condensate draining cycles are automatic and depend on the condensate level in the tank. The pump is mostly used in applications where condensate flows below the level of its drainage from premises or systems.

CONAQUA
The CONAQUA pump has a similar design to CONIBO, it also operates in a fully automatic cycle.
The pump is suitable for pumping water at temperatures from 1°C to 25°C. For short time, it can pump water at 50°C, however, the operating time may not exceed 90s, and the stand-by time must be at least 600s. The pump is suitable for pumping condensate to a height of up to 5m and a maximum horizontal distance of 20 m (each elbow and valve must be counted as 1 m discharge height). During installation, horizontal sections should be sloped by 1%. CONI pumps are designed for pumping water condensate from cooling units, air conditioning units and condensing furnaces. The pump is a compact-size device. The pump is fully automatic and maintenance free, which guarantees comfort of use. After filling the tank with condensate, the pump starts automatically, and after draining the condensate it stops automatically until the next cycle. The pump is mostly used in applications where condensate flows below the level of its drainage from premises or systems.

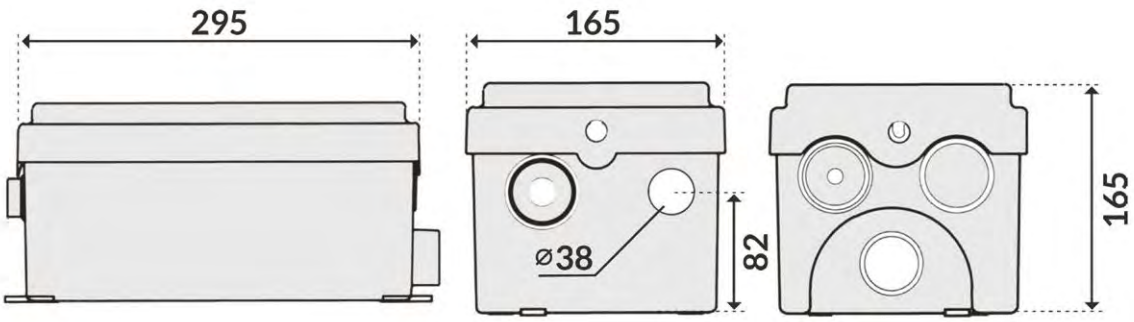
ZASTOSOWANIE:
Pumping water condensate from cooling units, air conditioning units and condensing furnaces.

PARAMETERS

Name	Head (m)	Flow (l/min)	Voltage (V)	Weight (kg)	Motor power / nominal (W)	Dimensions D/H/W (cm)	Tank capacity (l)
CONIBO	4,5	330	230	2,2	80	28/17/13,5	1,9
CONAQUA	5,1	250	230	1,7	58	28/15/13	1,7

AQUASAN MINI





Sanitary pumping station for bathrooms and kitchens.
The pump is similar to the Sanibo mini pumping station. The switch makes the pump a fully automatic device intended for use in bathrooms to drain water from wash basins, shower cabins or from washing machines or sinks installed in kitchens. 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 etc. 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 is supplied with:
- End plugs: 2 pcs x 40 mm,
- Stainless steel clamping rings: 3 pcs.

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

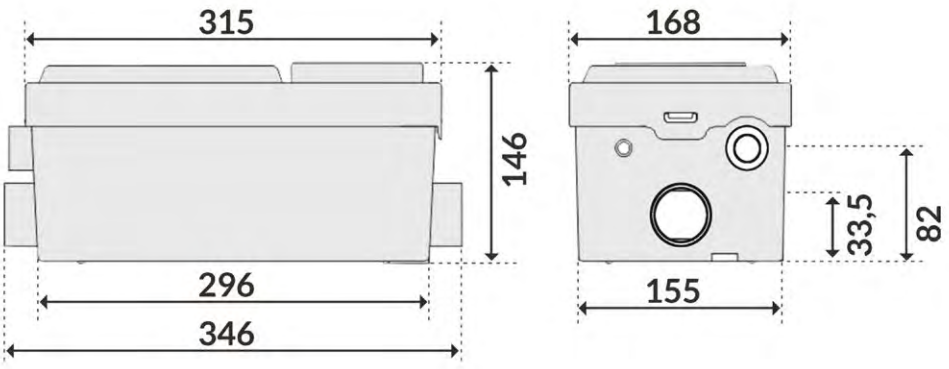


PARAMETERS

Name	Head (m)	Flow (l/min)	Voltage (V)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)	Max. temperature (°C)
AQUASAN MINI	4	40	230	250	30/17/16,5	4	40(90)*

SANIBO MINI



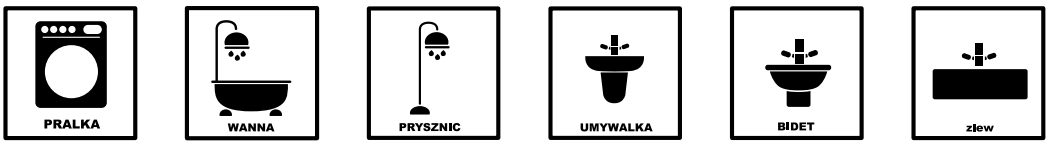


Sanibo mini is a sanitary pump designed for bathrooms and kitchens. The pumping station has one of the most advanced and reliable design available on the market. The pump is fully automatic and intended for use in bathrooms to drain water from wash basins, shower cabins or from washing machines or sinks 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

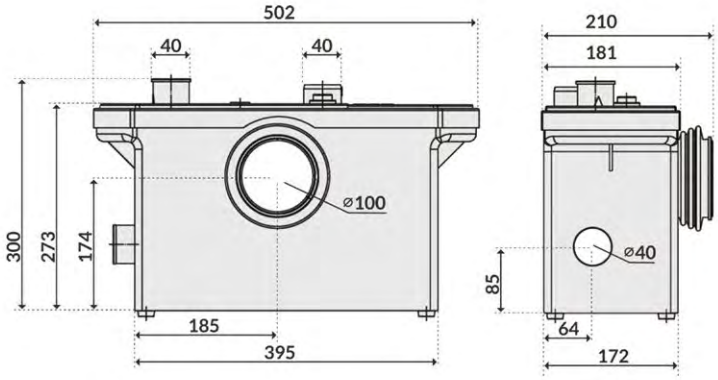
PARAMETERS

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

AQUASAN PRO







As a toilet pump, the Aquasan has been available on the market for many years. It is an economical version of Sanibo series. The pump has three inlets - 100 mm main inlet for toilets, two 40mm for shower bases or wash basins, and one 40mm outlet. It is an excellent solution for bathrooms where the toilet is installed outside the stack and riser or below the sewage discharge level. It has a switch for automatic pump control - the pump automatically stops after filling the device. Additionally, the pump can be started manually.
Its low-noise operation makes the pump ideal for domestic applications. An additional advantage of the device is the ability to pump liquids below 90°C for up to 1 minute.
Bathtubs, toilets, washing machines etc. can be connected to the pumping station, and unused inlets can be closed with end caps.
The pump is supplied with a set of stainless steel clamping rings and end caps, which makes it suitable for various applications.

The set includes:
- WC pump
- End plugs: 2 x small (40 mm), 1 x large (100 mm).
- 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.



PARAMETERS

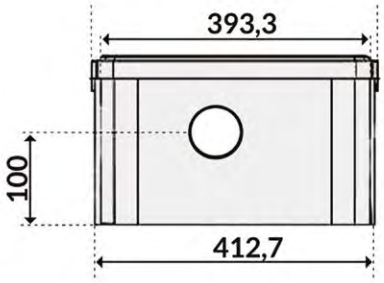
Name	Head (m)	Flow (l/min)	Tank capacity (l)	Voltage (V)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)	Max. temp (°C)	Ingress Protection	Liquid PH
AQUASAN PRO	6,5	140	6	230	600	51x32x22	8,5	50(90)*	IP 44	4 - 10

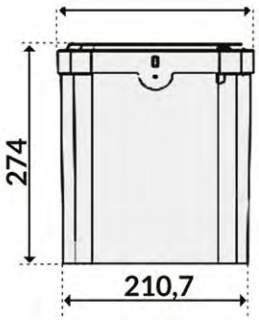
SANIBO 1











The Sanibo 1 WC pump is a fully automatic device designed for draining sewage from toilets, wash basins and sinks. Its low-noise operation makes the pump ideal for domestic applications. Sanibo 1 has a three-blade impeller
with six cutting edges that perfectly fight impurities that enter the pump. Additionally, the pump has three inlets - 100 mm main inlet for toilets, two 40mm for shower bases or wash basins, and one 40mm outlet. It is an excellent solution for bathrooms where toilets are installed outside the stack and riser or below the sewage discharge level. It has a 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 below 90°C for up to 2 minutes. Due to the 7 metre head vertically and 70 metre horizontally, there is no need for gravity sewage disposal. Its operating cycle is approx. 8 seconds.
The pump is supplied with a set of stainless steel clamping rings and end caps, which makes it suitable for various applications.

The set includes:

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

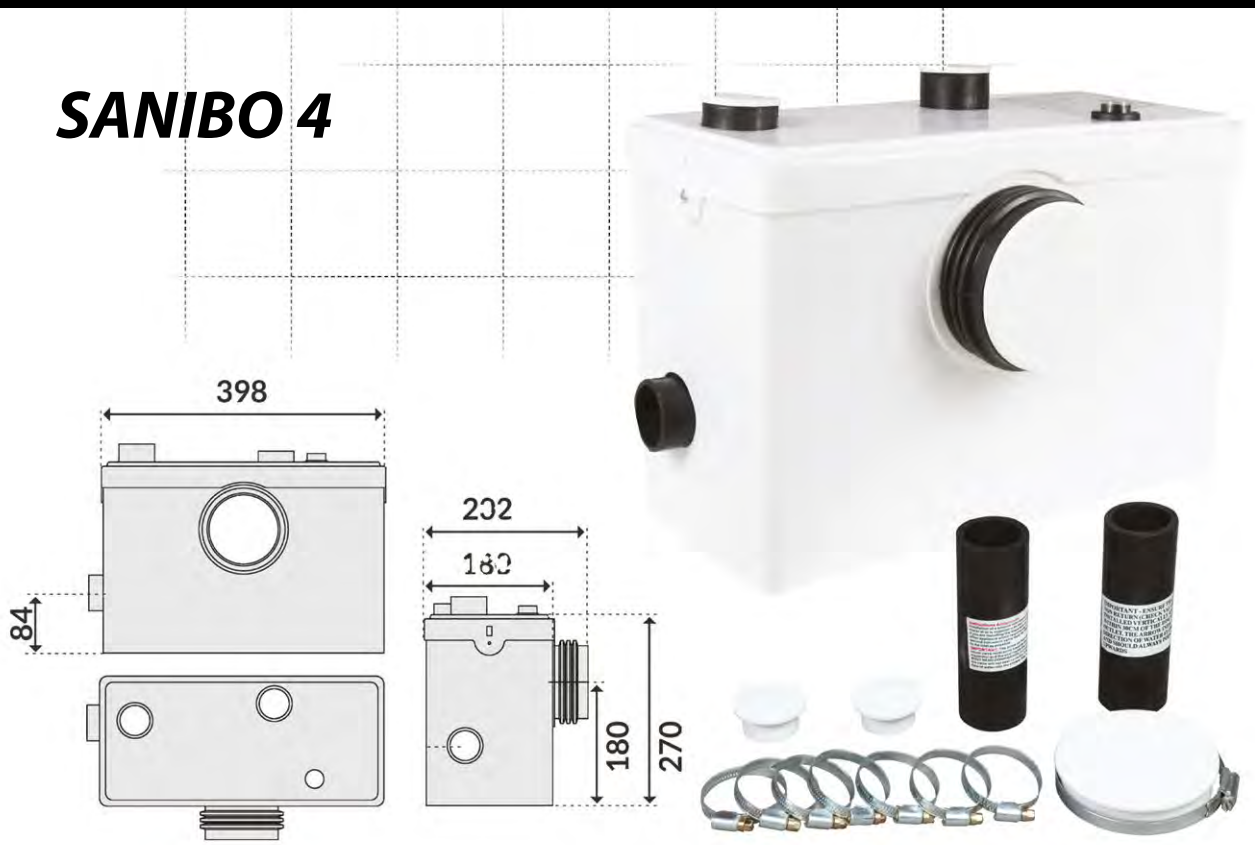
Application:
Domestic premises without technical means to connect sanitary facilities to gravity sanitary sewage system - basements, attics and other rooms converted for sanitary purposes.



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 1	7	120	6	230	600	51x32x22	8,5	60 (90)*	IP 44	4 - 10

SANIBO 4

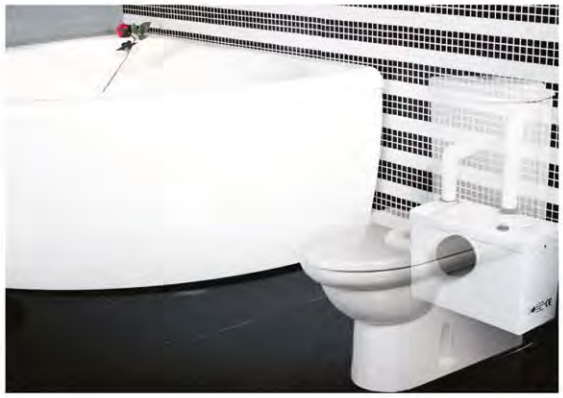


SANIBO 4 is a high quality fully automatic toilet pump for pumping sewage, equipped with three inlets for draining sewage from toilets and wash basins/sinks - one main 100 mm inlet for toilets, 40mm for shower bases or wash basins, and one 40mm outlet. It has a switch for automatic pump control - the pump automatically stops after filling the device. Additionally, the pump can be started manually.
Its low-noise operation makes the pump ideal for domestic applications. Long blades used in the Sanibo 4 impeller provide increased pump flow up to 300 l/min.
and excellent performance when dealing with impurities flowing into the pump. An additional advantage of the device is the ability to pump liquids below 90°C. Due to the 9 metre head vertically and 90 metre horizontally, there is no need for gravity sewage disposal. Its operating cycle is approx. 6 seconds.

The set includes:

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

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





PARAMETERS

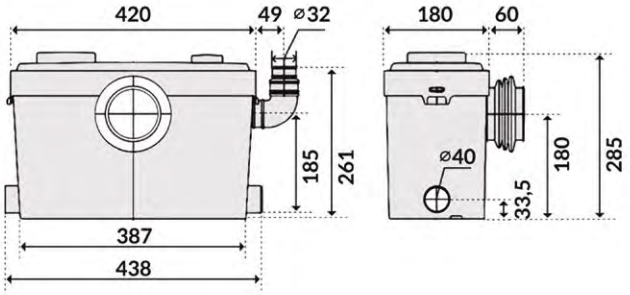
Name	Head (m)	Flow (l/min)	Tank capacity (l)	Voltage (V)	Motor power (W)	Dimensions L/H/W (cm)	Weight (kg)	Max. temp (°C)	Ingress Protection	Liquid PH
SANIBO 4	9	300	6	230	600	51x32x22	9,5	90	IP 44	4 - 10

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

co z tym ?

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

CONTROLLERS / PROTECTIONS
STEUERUNGEN / SICHERUNGEN
OVLADAČE / OCHRANY
CONTROLERE / PROTECȚII
КОНТРОЛЛЕРЫ / УСТРОЙСТВА ЗАЩИТЫ



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

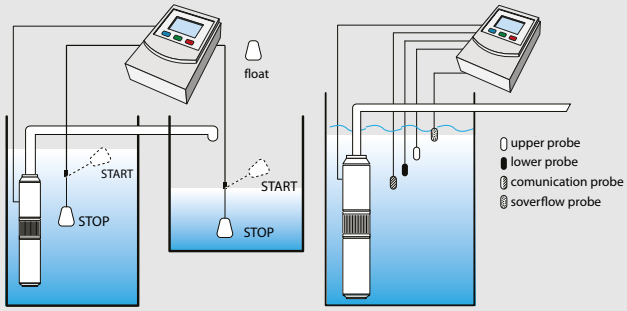
M21/ M31

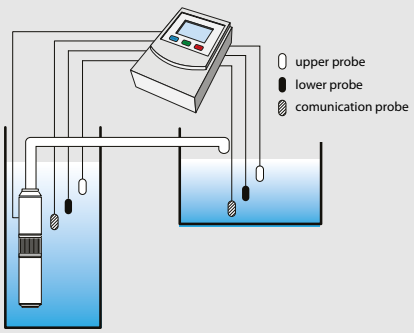
OPTIONS:

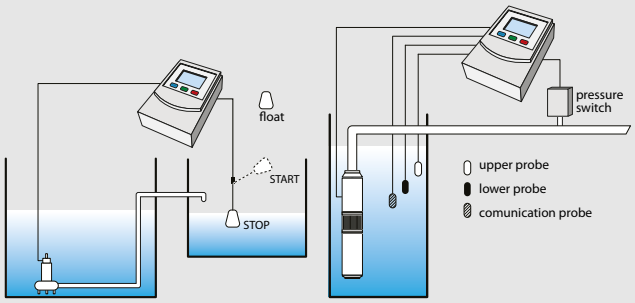
In addition to the M121 and M131 controller, M-21 and M-31 controllers are available with additional features, such as:

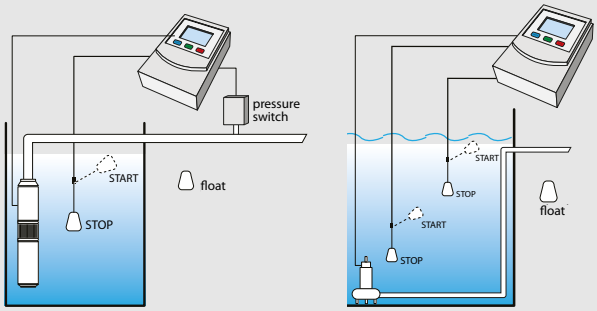
- Displaying of total pump operation time
- Displaying history of the last five failures when the protections have been activated
- Dynamic LCD screen displaying the current status of the pump.

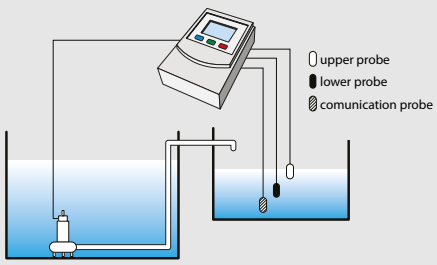
EXAMPLES OF INTELLIGENT CONTROLLER APPLICATION











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.

BOPRESS 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.



Pressure range in controlled system	*0-10 Bar*
Reading accuracy	0,01 Bar
Units display depending on user choice	Bar, kg/cm2, PSI
Inlet/outlet	¼"
Measured medium max. temperature	85oC
Max. ambient temperature	40oC
Supply voltage	Single-phase AC 60/60 Hz
Supply voltage	220-240V
Connected pump max. power	1,5 kW
Max. current draw	10A
Ingress Protection	IP 55
Protections	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
Display	Colour, LCD
Life-span	1 000 000 cycles



DIGIBO 1



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)

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.



PC-13



PC-15



PC-59

AUTOMATIC PUMP CONTROLLERS

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″	• 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	



Sk-15

PC-10P

PC-16

AUTOMATIC PUMP CONTROLLERS

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

Automatic pump controller for surface and deep well pumps. It can be used instead of a pressure switch and pressure 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

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″	• 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	

PRESSURE SWITCHES



LCI 2



LCA



PC 2



PC 9



PC-SK2

Pressure switches are designed for automatic starting and stopping booster sets with surface and deep well pumps equipped with electric motors.

The switches control the operation of the devices depending on the cut-in and cut-out pressure settings.

Switch body is made of durable plastic with copper or silver contacts. Depending on the model, the switches have different values of possible operating modes in a specified pressure range.

The PC-2 switch is additionally equipped with a pressure gauge and its design is based on a five-way discharge outlet so it can be used as a complete booster set fitting. PC-2 has 1" inlet and outlet.

The LCI and LCA switches can be used with 400 V ~ 3/50 Hz three-phase AC motors. In addition, the LCI is available with a nipple with 1/2" outer thread.

LCA switches are made by Polish manufacturer of pumps in Grudziądz

PARAMETERS

Name	Pressure range (Bar)	Max. amperage (1f/3f)	Voltage (V)	Inlet/outlet diameter (cale)	Thread type
LCI 2	1,0 - 6,0	16A	230/400	¼ / ½	Female/Male
LCA 1	1,0 - 4,0	16A / 10A	230/400	½	Female
LCA 2	2,0 - 8,0	16A / 10A	230/400	½	Female
LCA 3	3,0 - 11,0	16A / 10A	230/400	½	Female
PC - SK/2	1,6 - 4,6	12A	230/400	¼	Female/Male
PC - 2	1,6 - 4,6	12A	230/400	1	Male
PC - 9	1,6 - 4,6	12A	230/400	¼	Female



IMAGE: Assembly adhesive

ASSEMBLY ADHESIVE FOR FITTINGS

The adhesive for sealing all connections and joints between metal parts.



IMAGE: Float switch

FLOAT SWITCHES

Electromechanical switches for controlling electrical equipment operation that depends on the liquid level. The switches are made of durable plastic and rubber electric wire (H07RN-F). The float switches are supplied with 60 cm, 5 m (with weight), and 10 m (with weight) power cables.

FLANSZA

Galvanized steel spare part for pressure tanks



IMAGE: Flange

MEMBRANES

EPDM synthetic rubber membranes for pressure tanks. The membrane separates water and air part of the tank.
The membranes are made in Italy in accordance with the most demanding European. All membranes are certified for food contact.
Sizes available: 24 L, 35 - 50 L, 80 L, 100 L, 150 L.



IMAGE: Membrane

COUPLINGS

Aluminium couplings for connecting hoses.



IMAGE: Couplings

CONNECTORS

Aluminium connectors for connecting pumps with hoses



IMAGE: Control box

CONTROL BOXES

Enclosed plastic control box for starting single-phase motors. The boxes have a built-in capacitor, over-current protection and a cable with a plug. Depending on type, the boxes are intended for 0.75kW/ 1.1kW/ 1.5kW/ 2.2kW 230V ~ / 50Hz motors.

Name	Capacitor	Protection
0,75kW	35uF	8A
1,1kW	40uF	11A
1,1kW	45uF	12A
1,5kW	55uF	14A
1,5kW	60uF	15A
2,2kW	70uF	20A
2,2KW	80uF	20A

FILTERS - HOUSINGS / CARTRIDGES

In-line filters for purification and treatment of water from own intakes and water supply networks. Universal filters made of durable materials to guarantee long-term and faultless operation. Each housing is equipped with a clamp wrench. Available types of cartridges: ceramic, carbon,
mesh, string wound and foam. Housings and cartridges are available in sizes of 5/2.5"and 10"/2.5".

Depending on the system requirements, the housings have the following inlets/ outlets: 1"/3/4"/1/2".

Application: Households



TECHNICAL DATA	
Mesh filter	Mesh filter cartridge for filtering mechanical impurities, such as sand, rust and various types of sediments found in water.
String wound	String wound filter cartridge for filtering mechanical impurities. The cartridges are made of polypropylene string. Degree of filtration - 5um.
Ceramic filter	Ceramic filter cartridge for filtering mechanical impurities, such as sand, rust and various types of sediments found in water. Higher filtration accuracy compared to string and foam filters.
Foam filter	Foam filter cartridge for filtering mechanical impurities, such as sand, rust and various types of sediments found in water. Degree of filtration - 5um.
Carbon filter	Carbon filter block cartridge. Filter designed to reduce chemical compounds. It Improves the taste of water and removes any unpleasant odours

Features:

- Housing made of reinforced polypropylene;
- Two O-rings to ensure leak-tightness;
- The transparent housing for visual assessment of contamination;
- Complete with clamp wrench and mounting bracket:
- Max. pressure 8 bar;
- Temperature range 2- 45°C.

Available sizes make the housings suitable for most standard cartridges.
Our housings are suitable for the following cartridges:

- mechanical cartridges: foam and string;
- reusable mechanical cartridges: mesh;
- Active cartridges: carbon block, carbon granulate, softening and ceramic.

Application:

- mechanical cartridges: main water supply pipes in apartments and small houses;
- carbon and softening cartridges: single water intake points, such as taps.



SAND FILTERS

Filters designed to remove mechanical impurities with minimum particle size of 120 microns. The filter is usually installed downstream the water supply point upstream the main water intake in the building.

These filters are often installed with surface pumps in order to protect the hydraulic components against abrasive mechanical impurities.

The disk cartridge protects against mechanical impurities such as sand and dust, but not against water deposits such as iron.

The main advantage is the durable design so both the housing and the cartridge can be used for many years. The filters have reusable cartridges that should be cleaned, e.g. by rinsing - the cartridge can be removed and rinsed under pressure.

The housing is made of impact and chemical resistant plastic.

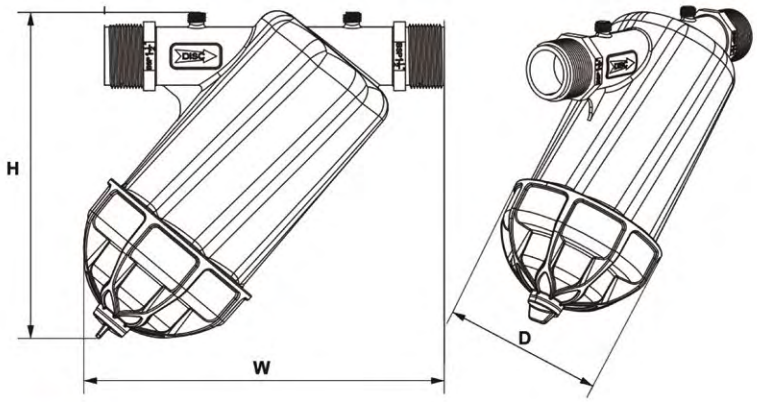
Disk and mesh filters are used in agriculture, irrigation, gardening and domestic use to protect the pump and water supply system against contamination.



In addition to disk cartridges,
mesh cartridges are available upon request.

FEATURES AND ADVANTAGES

- Compact size
- Micron rating precise filtration
- Chemical resistance
- Drain valve
- High efficiency
- Durability





Name	Q max	Max. pressure	Filtration	Filtration area	Dimensions(mm)
¾" Disc Filter	75 l/min	8bar	120	160	130/ 176/ 83
1" Disc Filter	100 l/min	8bar	120	160	173/ 190/ 89
1 ¾" Disc Filter	200 l/min	8bar	120	265	230/ 250/ 120
1 ½" Disc Filter	200 l/min	8bar	120	265	230/ 250/ 120

UV STERILIZERS

UV sterilizers are used to purify/disinfect water from bacteriological contamination that may exist in water sources, e.g. shallow wells or surface intakes. Disinfection is based on the bactericidal effect of the UV lamps in the sterilizer. The principle of their bactericide action is the absorption of UV light by the DNA structures of microorganisms. Proper selection of UV rays strength and exposure time can kill almost all microorganisms by destroying their DNA.

Water treatment with UV Irradiation is one of the most effective and safest methods of water purification because water is not purified by chemical compounds. Another advantage is the lack of influence on water taste and smell. Depending on the water demand, sterilizers can be equipped with 1 to up to 8 lamps. Lamps used in IBO sterilizers are manufactured by Philips and their service life is 8000h. The smallest sterilizers are designed for 1 l/min. flow, the largest available on request for flow up to 3600l/min. When using sterilizers with UV lamps, it is important to leave the lamps on even if there is no water flow because frequent on/off switching significantly reduces their life.

It should be remembered that the efficiency of the sterilizer depends largely on the quality of the water that flows through it, so we recommend to install in-line filters upstream the sterilizer to remove any mechanical impurities, such as sand. Moreover, the iron content and water hardness also affect the effectiveness of water purification. The iron in the water should not exceed 0.1mg/l while the hardness of the water should be less than 110 CaCo3mg/l.

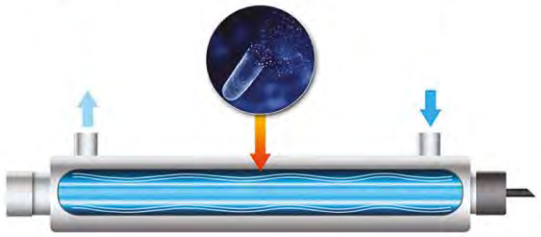
APPLICATION:

- Filtration of utility water
- Filtration of water in fish keeping
- Filtration of water in garden ponds
- Filtration of water in swimming pools

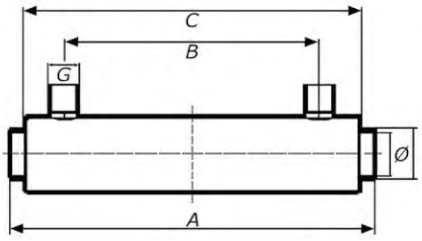
DETAILS:

- Protective tube made entirely of quartz for low suppression of radiation.
- Simple operation and quick radiator replacement
- Lamp life time: over 8000h
- Transformer with grounding cable (230 V), O-rings and adapters included
- AISI 304 stainless steel body
- Working pressure up to 10 bar
- Inlet/outlet type - outer thread.











Przepływ l/min	Power (W)	Quartz body	UV Lamp	Lamp head diameter	Number of lamps	Lamp	Dimensions (mm)				
							A	B	C	G	Ø
1	4	230	150	16	1	PHILIPS	236		164	1/4"	2"
2	6	230	227	16	1	PHILIPS	236		164	1/4"	2"
4	11	296	227	16	1	PHILIPS	300		227	1/4"	2"
8	16	360	303	16	1	PHILIPS	330	305	260	1/2"	2 1/2"
24	25	498	452	26	1	PHILIPS	470	448	378	1/2"	2 1/2"
40	30	955	895	26	1	PHILIPS	927	905	835	3/4"	2 1/2"
48	55	955	895	26	1	PHILIPS	927	905	835	3/4"	2 1/2"
90	110	955	895	26	2	PHILIPS	927	905	835	1"	5"
135	165	955	895	26	3	PHILIPS	927	905	835	1 1/2"	5"

WELL FITTINGS / HOSES
BRUNNENZUBEHÖR / SCHLÄUCHE
STUDNOVÉ PŘÍSLUŠENSTVÍ / HADICE
ACCESORII DE PUȚ/ FURTUNURI
СКВАЖИННОЕ ОБОРУДОВАНИЕ / ШЛАНГИ



CABLE CONNECTION



When purchasing deep well and submersible pumps, our customers can choose to extend the electric cable by any length using a sealed cable connection. Depending on:

- pump motor power
- number of wires
- cable length to be connected,

our consultants will find the power cable with proper cross-section.

Each connection is manufactured in three stages:

1. Each wire is soldered separately to ensure proper current flow.
2. After soldering, each wire is sealed with a heat-shrink tubing filled with glue. Then, the tubing is heat-sealed.
3. During the last stage, outer heat-shrink insulation is applied with more glue, which when heated fills the entire cable connection.

This procedure of connecting the cable guarantees long-term tightness and faultless operation.
All connectors made by Dambat are covered by our warranty conditions.

INOX STEEL WIRE ROPE, POLYPROPYLENE ROPE

INOX ROPE: 7x7 stainless steel strand cores. The ropes can be used to suspend deep well pumps in wells and boreholes. The rope is made of AISI 304 stainless steel what makes is fully resistant to weather conditions. The ropes are supplied with stainless steel brackets and aluminium clamps.

PP ROPE: braided ropes made of polypropylene are flexible and lightweight alternatives to steel ropes. PP ropes are rotproof, resistant to oil, water, petrol and most chemicals. Polypropylene ropes are the only ropes that are not submersible. Ropes are available in sizes: 6mm, 8mm, 10mm.



PARAMETERS

Name	Diameter (mm)	Cross-section	Max. Load (m)	Tensile strength (N/mm2)	Weight (kg)	Breaking load (kN)
3mm INOX Rope	3	7x7	520	1770	0,037	5,07
6mm PP Rope	6	oplot	500	21%	0,017	5,0
8mm PP Rope	8	oplot	900	21%	0,030	9,0
10mm PP Rope	10	oplot	1200	21%	0,045	12,0

WELL TOP PLATES









Covers used for tight closing of deep well casing pipes through which the discharge pipes go in. Tight closing is provided by the gasket forced against the casing pipe. Tightly sealed well is protected against contamination and penetration of surface water. The well top plates are available in three versions made of plastic, steel and galvanized cast iron. All well top plates are equipped with a metal hook to support the pump, and a cable gland for tight routing of the power cable. Different sizes of connection threads allow the connection of pipes of different diameters. Depending on the design, well top covers are suitable for 110mm to 160mm casing pipes, i.e. for 4" and 6" wells.

Well top cover includes:

- Hydraulic connection (gasket) for connecting the discharge pipe
- Cable gland for connecting and routin
  the power cable through the well top cover
- Metal hook for attaching the pump support rope.
- Male thread or access hole tightened with a gasket.
- Seal for tightening the discharge pipe and the casing pipe.



Well seal type			
SIZE	*Male thread (galvanized)*	*Access hole (galvanized)*	*Access hole (plastic)*
110/25 mm	x		
110/32 mm	x	x	
110/40 mm		x	
125/25 mm	x		
125/32 mm	x	x	
125/40 mm	x		
160/40 mm	x		x
160/50 mm	x		x
160/60 mm		x	

WELL COUPLING



The well coupling is an innovative solution for easy installation/removal of deep well pumps in wells.

The brass coupling allows the pump to be hung directly in the well hole without the need for discharge pipe to be extended above the surface. Thus, it protects the well against contamination or penetration of surface water. Also, there is no need to use a concrete well casing where a discharge
pipe and a casing pipe with a well top plate are mounted.

The water drainage pipe is located below frost point and has a direct connection to the housing via a brass adapter. The coupling thus makes installation of deep well pumps very easy. All components are buried.

COUPLING FEATURES

- no need to use a concrete well casing and a well seal.
- protection of the well against contamination
- easy access to the well
- very easy pump removal
- suitable for 2.5"/ 3" / 3.5"/ 4" pumps
- pipeline installed below the frost line
- available in 1"and 1 1/4" sizes

CENTRALIZER / TORQUE ARRESTOR

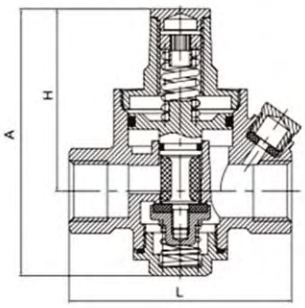


Application:
The centralizer is used to stabilize the pump inside the well pipe and to prevent the pump movement during the motor starting torque.

Design:
The centralizer is made of durable rubber, the shape of which can be adjusted depending on the size of the well. The centralizer is cut longitudinally and has two clamps on each end for mounting it on the discharge pipe. By bringing the centralizer clamps closer to each other, its diameter will increase and it will adapt to the diameter of the well.

Installation:
The centralizer should be mounted on the discharge pipe. To install it, tighten the clamps so it does not move along the discharge system.
It is important to tightened the top clamp more than the bottom clamp so that the pump can be easily removed if necessary. The bottom centralizer clamp should be 10-20 cm above the pump. The centralizer should be adjusted to the diameter of the well, but not too tight to allow easier lowering of the pump into the well.

Properties:
The centralizer is designed for systems with 1"to 11/4" discharge pipes and 4" to 8" casing pipes. The clamps included are made of stainless steel.





PRESSURE REGULATORS

Brass regulators designed to regulate input pressure in water and air systems. They also protect the systems against pressure spikes. Compact size and low-noise operation. Pressure regulators are available in sets with pressure gauges.

SIZE	Inlet/outlet (inch)	Weight (g)	Max. input pressure (bar)	Input pressure (bar)	Temperature (°C)	Insert	Filtr	L	H	A
DN15	½	510	16	1 - 6	0 - 85	Brass	ASI309 stainless steel	79,5	63	92
DN20	¾	530	16	1 - 6	0 - 85			79,5	63	92
DN25	1	786	16	1 - 6	0 - 85			85	78	112
DN32	1¼	830	16	1 - 6	0 - 85			85	78	115
DN40	1½	1603	16	1 - 6	0 - 85			96	102	150
DN50	2	1974	16	1 - 6	0 - 85			115	102	178

NON-RETURN VALVES

SIZE	Weight (g)	Temperature (°C)	Max. input pressure (bar)	Insert
½	130	(-15) - 120	16	Brass
¾	205	(-15) - 120	16	
1	250	(-15) - 120	16	
1¼	410	(-15) - 120	16	
1½	660	(-15) - 120	16	
2	1000	(-15) - 120	16	



STOP VALVE FOR PRESSURE VESSELS

The valve is intended for mounting pressure vessels in central heating and hot water systems. Pressure vessels can be quickly mounted or dismounted for maintenance or replacement. The valve prevents the liquid outflow from the system during vessel removal. Max. pressure: 10 bar Max. temperature 100oC



FIVE-WAY DELIVERY OUTLET

Brass outlet for mounting pressure fittings.
Connection thread diameter: 1"- pump connection, 1" delivery system connection, 1"- anti-vibration hose connection to the tank, ¼" - pressure gauge connection, ¼"- pressure switch connection. Available outlets are 70 mm and 90 mm high.

Connection / height	70 mm	80 mm	90 mm	120 mm
Pump connection	1"	1 1/4"	1"	1"
Delivery system connection	1"	1 1/4"	1"	1"
Anti-vibration hose connection	1"	1 1/4"	1"	1"
Pressure gauge connection	1/4"	1/4"	1/4"	1/4"
Pressure switch connection	1/4"	1/4"	1/4"	1/4"



PRESSURE GAUGE

The pressure gauge is used to measure the pressure in the system. Operating range is from 0 to 10 bar, ¼" inlet/outlet with male thread.



ELECTRICAL CABLES



Nominal voltage	450/750V
Conductor material	copper
Number of conductors	3 / 4
Identification of conductors	Colour
Type of cores	Multi-strand (flexible)
Conductor insulation	Rubber (EPR)
Conductor class	Class 5 = flexible
Sheathing material	Rubber (EPR)
Permissible cable temperature	(-25) - (+60)
Sheathing colour	Black
Shape	Round
Sheating	chloroprene rubber, oil resistant, flame retardant

brak tłumaczenia w tabelce

H07RN-F rubber heavy duty power and control cable 450/750 V, for in industrial and agricultural applications.
Class 5, from -25°C to 60°C, oil resistant, flame retardant

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

Features
- Resistant to low temperatures
- Resistant to mechanical damage
- Oil resistant
- UV radiation resistant

Application:
- Hand and power operated equipment
- Medium mechanical loads
- Industrial and agricultural applications
- In dry, wet and humid environments

Depending on the batch, the dimensions may differ from the data specified below.

Model (Ilośc żył x śrenica żyły (mm²)	*Ilość żył / Kolor izolacji*	
	robocze	ochronne
	2 (brązowa, niebieska)	1 (złóto-zielona)
	Średnica zewnętrzna (mm²)	
3 x 1,5mm²	9,5	
3 x 2,5mm²	10,5	
3 x 4mm²	13	
3 x 6mm²	14,5	
3 x 10mm²	22,4	

Model (Ilośc żył x śrenica żyły (mm²)	*Ilość żył / Kolor izolacji*	
	robocze	ochronne
	3 (brązowa, czarna niebieska)	1 (złóto-zielona)
4 x 1,5mm²	10,5	
4 x 2,5mm²	12,5	
4 x 4mm²	14,5	
4 x 6mm²	16,2	
4 x 10mm²	21,5	

MOTOR TYPE	*MOC (kW)*	*1 mm²*	*1,5 mm²*	*2,5 mm²*	*4 mm²*	*6 mm²*	*10 mm²*	*16 mm²*
230V	0,37	50m	75m	125m				
230V	0,55	38m	57m	95m	152m			
230V	0,75	30m	45m	45m	120m	175m		
230V	1,1	22m	33m	53m	85m	127m	210m	
230V	1,5	23m	38m	63m	92m	154m	246m	
230V	2,2	28m	45m	67m	112m	180m		
400V	0,37	240m						
400V	0,55	164m	246m					
400V	0,75	133m	200m	233m				
400V	1,1	97m	146m	244m	390m			
400V	1,5	72m	109m	180m	290m	435m		
400V	2,2	51m	78m	130m	207m	310m	516m	
400V	3	41m	62m	104m	167m	250m	416m	
400V	4	31m	46m	77m	124m	186m	310m	496m
400V	5,5	33m	56m	90m	135m	225m	360m	
400V	7,5	25m	66m	100m	165m	270m		

ANTI-VIBRATION HOSES/CONNECTORS

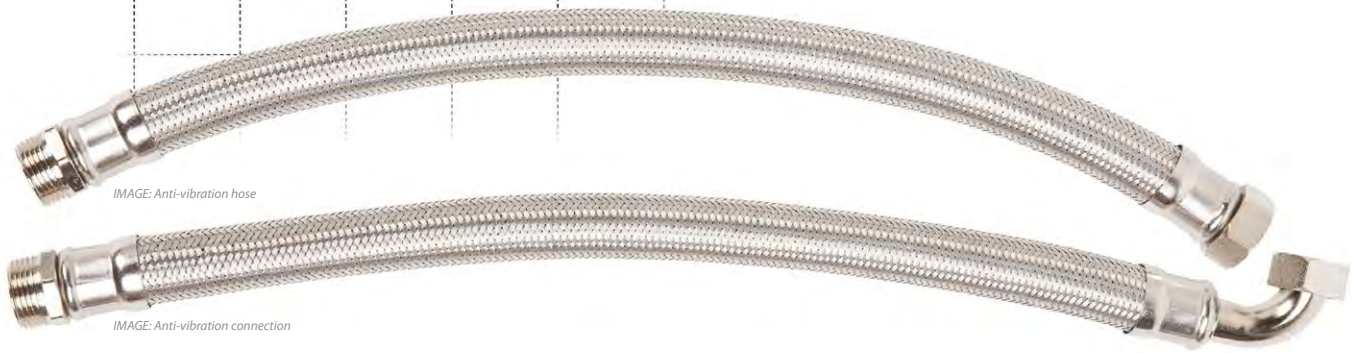


IMAGE: Anti-vibration hose

IMAGE: Anti-vibration connection

Anti-vibration hoses with elbow:
Flexible anti-vibration hoses made of EPDM rubber approved for contact with drinking water, in a metal braid protecting the discharge pipe. Hoses have brass connections - an elbow with a rotary union and gasket on one end, and a nipple on the other end. The 30 cm hose has an external diameter of 19 mm and a female x male thread (1"x 1/2"). The 54 cm hose has an external diameter of 26 mm and a female x male thread (1"x 1"). The 60 cm,
70 cm and 80 cm hoses have an external diameter of 32 mm and a female x male thread (1"x 1").

APPLICATION:
Water distribution in heating and air-conditioning systems, domestic water systems. Flexible connections of pumps and pressure tanks, and all connections for distributing water of up to 90°C.

Anti-vibration connectors (straight)
Flexible anti-vibration connectors made of EPDM rubber approved for contact with drinking water,
in a metal braid protecting the discharge pipe. Connectors with brass connections -
an union with a gasket on one end, and a nipple on the other end. The offer includes 30, 40, 50, 60, 80, 100 cm connectors with female x male (1" x 1") threads.

APPLICATION:
Water distribution in heating and air-conditioning systems, domestic water systems. Flexible connections for distributing water of up to 90°C.

PARAMETERS

Elbow hoses	Diameter	Straight connectors	Diameter
30 cm	18 mm	30 cm	32mm
54 cm	27 mm	40 cm	
60 cm	32 mm	50 cm	
70 cm		60 cm	
80 cm		70 cm	
100 cm		80 cm	

SUCTION HOSES





4 and 7m plastic suction hoses for supplying water from various surface intakes using suction pumps.

The hose has a suction strainer on one end to prevent larger dirt, such as leaves from entering the system. On the other end, the hose has a 1" union joint to connect the hose to the pump inlet.

APPLICATION:
Water intake from dug and deep wells, lakes, rivers and reservoirs.

SUCTION HOSES – REINFORCED





Transparent light weight steel-wire-reinforced small-bend-radius hose. Reinforced hoses are used as suction and discharge hoses. They are resistant to negative pressure and can be used in adverse weather conditions.

APPLICATION:
Suitable for sucking and transporting water, oil and powder in manufacturing plants. Reinforced hoses are used in agriculture, civil engineering, irrigation, and industrial applications in systems supplying water and oil to installations and equipment. It can be used instead of rubber hoses and metal pipes.

Material: Helix PVC: steel wire
OPERATING TEMPERATURE: from -5 °C to +65 ° C

Features:
- Very smooth inner wall and outer surface
- Reinforced with steel wire spiral
- Good resistance to crushing, abrasion and most chemicals
- Excellent resistance to pressure and negative pressure
- Non-toxic and odourless



PARAMETERS

Reinforced suction hose					
Diameter	*Inner (mm)*	*Outer (mm)*	*Length (m/roll)*	*Operating pressure (bar)*	*Test pressure (bar)*
3/4"	19	23	50	5	13
1"	25	30	50	5	13
1-1/4"	32	38	50	4	12
2"	50	58	50	4	12
3"	76	90	30	4	12

SUCTION HOSES - HELIX

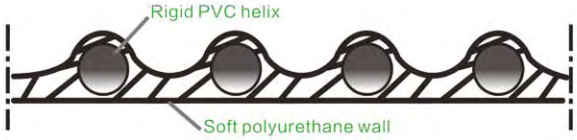


Lightweight, flexible hose for delivery and suction with increased resistance to UV radiations.
Their important feature is resistance to negative pressure.
Helix hoses have lower weight compared to reinforced hoses.

APPLICATION:
In industrial applications, agriculture, for irrigation and civil engineering. It can be used instead of rubber hoses and metal pipes. It is suitable for transporting pellets, powder, grain, water in irrigation systems, as well as water and oil in industrial systems.

Material: Helix PVC: PVC wire
OPERATING TEMPERATURE: from -5 °C to +65 ° C

FEATURES:
- Very smooth inner wall and outer surface
- Reinforced with steel wire spiral
- Good resistance to crushing, abrasion and most chemicals
- Excellent resistance to pressure and negative pressure
- Non-toxic and odourless



PARAMETERS

UV resistant helix suction hose						
Diameter	*Inner (mm)*	*Outer (mm)*	*Length (m/roll)*	*Operatin pressure (bar)*	*Test pressure (bar)*	*Negative operating pressure (bar)*
3/4"	19	21	30	6	18	1,5
1"	25	27,5	30	6	18	1,5
1-1/4"	32	34,5	30	6	18	1,5
1-1/2"	38	41	30	5	16	1,5

DISCHARGE HOSES

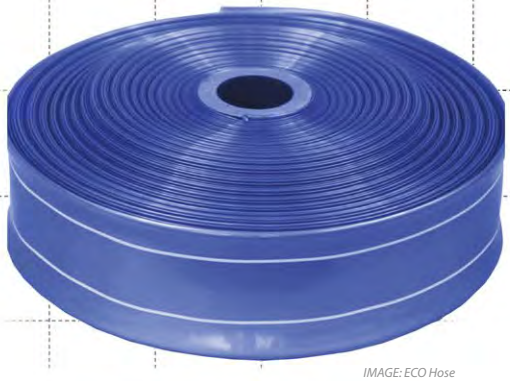


IMAGE: ECO Hose



IMAGE: Waven hose

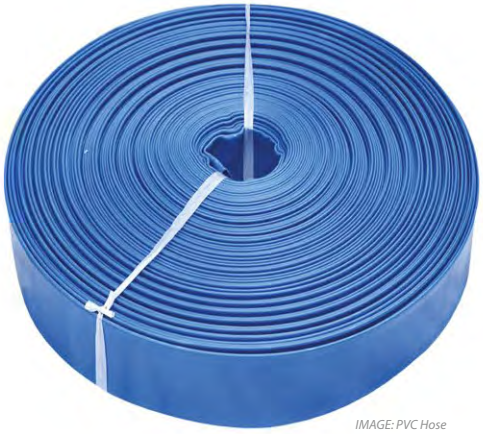


IMAGE: PVC Hose



IMAGE: Woven hose with fast connection

Flexible discharge hoses for pumping water and sewage. Available versions:

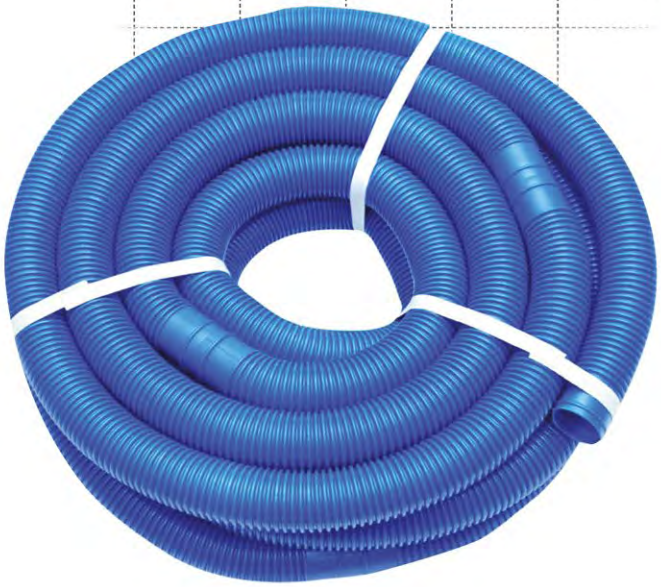
- Eco flexible hose - blue discharge hose with a maximum permissible pressure of 2 bar, in 50m sections, available sizes: 1" / 2"
- PCV hose - blue discharge hose with a maximum permissible pressure of 2 bar, in 50m sections.
- Available sizes: 04/09/20172/2.5/3
- With the weave braid (fire hose) and the weave braid with fast connections - a white hose with a maximum permissible pressure of 8 bar. Available sizes: 1.5" / 2"

APPLICATION:
Drainage of excavations and flooded rooms, pumping sewage, water from lakes, ponds, rivers with submersible pumps.

PARAMETERS

Model	1"	1 1/4"	1 1/2"	2"	3"	Max. pressure
Eco rubber hose	50m	x	x	50m	x	2 bar
Blue rubber hose	50m	50m	50m	50m	50m	2 bar
Woven hose	30m	x	30m	20m / 30m	x	8 bar
Woven hose with fast connections	x	x	x	20m / 30m	x	8 bar
Woven hose with MAX fast connections	x	x	x	20m / 30m	x	8 bar

SWIMMING POOL HOSES





Swimming pool hoses - rolls:

Swimming pool hoses designed for connecting various pumping, filtering, vacuum and cleaning accessories and fittings. The hoses are made of high density polyethylene (HDPE), which provides flexibility, low weight and high durability. Material used ensure resistance to UV radiation, chlorine and adverse weather conditions.
Hoses are available in 50m rolls with 32mm and 38mm diameter, and any length being a multiple of 1m can be cut off.

Swimming pool hoses - sections:

Swimming pool hoses designed for connecting various pumping, filtering, vacuum and cleaning accessories and fittings. Hoses are available in 50m sections with 32mm and 38mm diameter with swivel connectors.
Operating temperature range: from -15 ° C to + 60 ° C Features:

- Very flexible and floating
- Smooth inner surface
- Crush resistant structure
- High tightness
- Small bend radius
- Tear resistance
- High tensile strength
- Available in rolls or 11m sections with adapters.



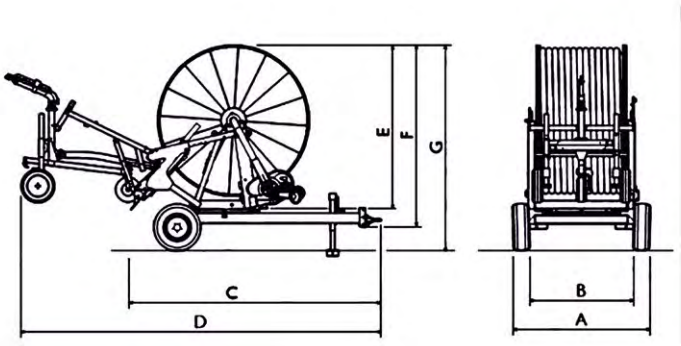
PARAMETERS

Model	Diameter	Length	Adaptery	Can be cut to length	Operating negative pressure	Test pressure
32 mm hose (roll)	1 1/4"	50m	No	Yes	0,8bar	4bar
38mm hose (roll)	1 1/2"	50m	No	Yes	0,8bar	4bar
11m/32 mm hose	1 1/4"	11m	Yes	No	0,8bar	4bar
11m/38mm hose	1 1/2"	11m	Yes	No	0,8bar	4bar

IBO 600

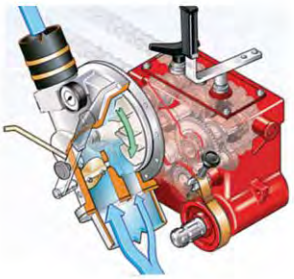
- SPECIFICATION
-
- Hose reel irrigation machine with a built-in bypass.
- Four-speed gear with a shaft fully immersed in an oil tray.
- Gear with PTO output for fast hose rewinding.
- Braking system for automatic hose unwinding.
- Automatic adjustment of rewinding speed depending on the hose diameter.
- Hose loosening protection.
- Uneven hose coiling protection.
- The hose reel irrigation machine is equipped with an electric hose reel speed control, a digital clock.
- Screw hose coiling system with a double guide and high precision adjustment.
- Stainless steel reel support on ball bearings and sealing ring.
- 360 ° rotating frame on a central plate with ball bearings.
- Trolley for lifting with a hand crank (or hand hydraulic pump) after sprinkling.
- A flexible rubber hose with connections for delivering water to hose reel irrigation machine.
- Adjustable wheel track and height.
- SIME slow-return sprinkler with a set of nozzles.
- Glycerin-filled pressure gauge at hose reel irrigation machine inlet.
- Ball-and-socket joint on a sprinkler trolley.
- Sprinkler equipped with a weight.
- Hot-dip galvanized reel trolley on pneumatic wheels.
- Hydraulic extending and retracting of telescopic jacks.

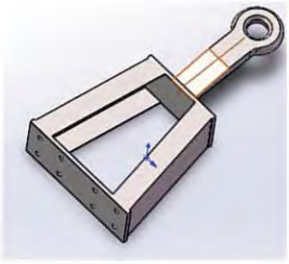




A	B	C	D	E	F	G	KG
1780	1630	2850	4550	1820	2020	2340	1140









PARAMETERS

Model	PE hose (diameter / length)	Effective length (m)	Sprinkler efficiency (m3/h)	Input pressure (Bar)	Nozzle diameter (mm)	Weight (with water) (kg)	Weight (without water) (kg)
IBO 600	63 x 300	340	10-21	5.5-10	12-16	1740	1120
	70 x 330	330	12-26	5.5-10	14-18	1840	1210
	75 x 250	250	14-34	5.5-10	14-20	1730	1140
	80 x 160	160	16-37	5.5-10	16-22	1750	1100

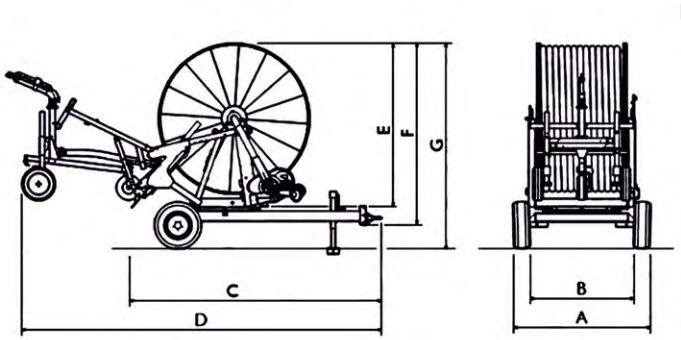
IBO 610

SPECIFICATION



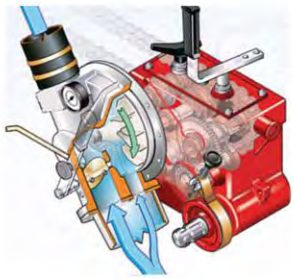


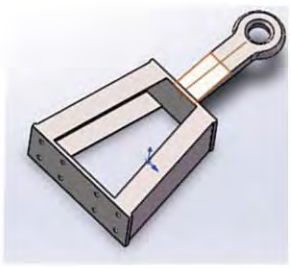
- Hose reel irrigation machine with a built-in bypass.
- Four-speed gear with a shaft fully immersed in an oil tray.
- Gear with PTO output for fast hose rewinding.
- Braking system for automatic hose unwinding.
- Automatic adjustment of rewinding speed depending on the hose diameter.
- Hose loosening protection.
- Uneven hose coiling protection.
- The hose reel irrigation machine is equipped with an electric hose reel speed control, a digital clock.
- Screw hose coiling system with a double guide and high precision adjustment.
- Stainless steel reel support on ball bearings and sealing ring.
- 360 ° rotating frame on a central plate with ball bearings.
- Trolley for lifting with a hand crank (or hand hydraulic pump) after sprinkling.
- A flexible rubber hose with connections for delivering water to hose reel irrigation machine.
- Adjustable wheel track and height.
- SIME slow-return sprinkler with a set of nozzles.
- Glycerin-filled pressure gauge at hose reel irrigation machine inlet.
- Ball-and-socket joint on a sprinkler trolley.
- Sprinkler equipped with a weight.
- Hot-dip galvanized reel trolley on pneumatic wheels.
- Hydraulic extending and retracting of telescopic jacks.

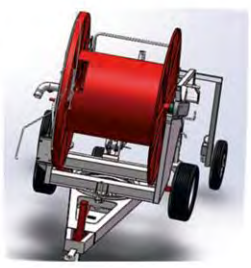


A	B	C	D	E	F	G	KG
2100	1900	3210	5000	2070	2320	2670	1680









PARAMETERS

Model	PE hose (diameter / length)	Effective length (m)	Sprinkler efficiency (m3/h)	Input pressure (Bar)	Nozzle diameter (mm)	Weight (with water) (kg)	Weight (without water) (kg)
IBO 610	75 x 350	360	14-26	5.5-10	14-18	2075	1453
	82 x 320	330	19-48	5.5-10	16-24	2350	1680
	90 x 300	310	25-52	5.5-10	18-28	2400	1790
	100 x 200	220	26-60	5.5-10	20-28	2460	1820

Hose diameter (mm)	Nozzle diameter (mm)	Pressure at the nozzle (bar)	Flow											
		atm	l/min	150m	200m	250m								
50	10	2	130	3,6	4	4,4								
		3	160	5,2	5,8	6,3								
	12	3	215	6,3	7,3	8,1								
		4	240	8,2	9,4	10,5								
	14	4	310	10,4	11,8	14								
		5	350	12,8	15,3	17,5								
		atm	l/min	200m	250m	300m								
63	14	2	200	3,5	3,8	4,1								
		3	245	4,9	5,4	5,8								
	16	3	310	5,6	6,5	7,2								
		4	360	7,8	8,4	9,4								
	18	4	440	9,7	10,5	12								
		5	500	11,5	12,9	14,7								
		atm	l/min	200m	250m	300m	330m	350m						
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						
	18	3	365	6,4	6,8	7,1	7,3	7,4						
		4	420	8,3	8,8	9,2	9,4	9,6						
	20	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	200m	250m	300m	330m	350m	400m					
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					
	18	3	360	4,7	5,1	5,5	5,9	6,1	6,5					
		4	415	6,1	6,6	7,1	7,6	8	8,5					
	20	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	200m	250m	300m	330m	350m	400m	420m				
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				
	20	3	440	4,7	5	5,4	5,9	6,3	6,7	7				
		4	515	6	6,4	7	7,6	8,2	8,7	9,2				
	22	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	200m	250m	300m	330m	350m	400m	420m	450m			
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			
	24	4	750	6,3	7	7,6	7,8	8,2	8,8	9,2	9,6			
		5	820	8	8,6	9,3	9,6	10	10,9	11,4	11,8			
	26	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	200m	250m	300m	330m	350m	400m	420m	450m	500m		
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		
	28	4	1000	6,7	7,1	7,7	8,1	8,3	9	9,6	9,8	10,5		
		5	1120	8,2	8,7	9,4	9,9	10,2	11,1	11,8	12	12,9		
	30	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	200m	250m	300m	330m	350m	400m	420m	450m	500m	550m	600m
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
	30	4	1180	6,1	6,5	7	7,2	7,5	8,1	8,5	8,9	9,6	10,5	11,2
		5	1250	7,5	7,9	8,6	8,9	9,2	9,9	10,4	10,9	11,8	12,9	13,8
	32	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
	34	6	1750	8,7	9,2	9,8	10	10,3	11	11,4	11,8	12,7	13,7	14,7
		7	1920	10,1	10,6	11,3	11,6	12	12,8	13,2	13,6	14,7	15,8	17
	36	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
	36	6	2050	8,1	8,3	8,7	8,9	9,1	9,6	10	10,3	10,7	11,2	11,8
		7	2150	9,3	9,6	10	1,2	10,5	11,1	11,5	11,9	12,4	13	13,7
	38	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
	36	6	2000			7,8	7,9	8,1	8,3	8,4	8,6	9,1	9,3	9,6
		7	2150			8,9	9,1	9,3	9,6	9,8	9,9	10,2	10,5	10,9
	38	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

The table shows pressure and flow losses taking into account the water discharge resistance of a rigid, horizontal metal pipeline.

WATER FLOW		NOMINAL DIAMETER in mm and inches																	
m^3/h	l/min	Loss pre 100 m	"15 1/2""	"20 3/4""	"25 1""	"32 1 1/4""	"40 1 1/2""	"50 2""	"65 2 1/2""	"80 3""	"100 4""	"125 5""	"150 6""	"175 7""	"200 8""	"250 10""	"300 12""	"350 14""	"400 16""
0,6	10	head loss (m)	17,0	4,0	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		89,0	22,0	7,5	2,4	0,8	0,3											
1,8	30		125,0	31,0	11,0	3,3	1,2	0,4											
2,1	35		166,1	40,0	14,3	4,3	1,5	0,5											
2,4	40			52,0	18,1	5,3	1,9	0,7	0,2										
3	50			78,5	27,0	8,0	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	50,0	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	8,0	2,8	0,8	0,3									
6	100				95,4	29,0	9,9	3,4	0,9	0,4									
7,5	125				144,0	44,1	15,0	5,0	1,5	0,5									
9	150					60,5	20,8	7,0	2,0	0,7	0,3								
10,5	175					81,0	27,5	9,5	2,7	1,0	0,4								
12	200					105	35,0	12,1	3,4	1,3	0,5								
15	250					155,5	52,8	18,0	5,0	1,9	0,6	0,20							
18	300						73,9	25,2	7,0	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	25,0	9,5	3,3	1,2	0,5	0,2					
42	700							119,5	33,5	12,0	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	54,0	19,5	6,5	2,3	0,9	0,5					
60	1000								64,0	24,0	7,9	2,8	1,1	0,6	0,3				
75	1250								97,0	35,6	12,0	4,0	1,7	0,8	0,4				
90	1500								135,0	50,0	16,9	5,7	2,4	1,1	0,6				
105	1750								180,0	65,0	22,4	7,5	3,2	1,5	0,8				
120	2000									85,0	29,0	9,8	4,0	1,9	1,0	0,4			
150	2500									128,0	43,0	14,9	6,0	2,9	1,5	0,5			
180	3000										60,0	20,5	8,5	4,0	2,2	0,7	0,3		
210	3500										80,0	27,5	11,5	5,3	2,9	1,0	0,4		
240	4000										103,0	35,5	14,5	6,9	3,5	1,3	0,5		
300	5000											52,5	22,0	10,5	5,4	1,9	0,8		
360	6000											74,0	30,0	14,5	7,5	2,6	1,1		
420	7000												40,0	19,0	10,0	3,4	1,4	0,7	
480	8000												52,0	24,0	13,0	4,4	1,8	0,9	
540	9000												65,0	30,5	14,0	5,4	2,2	1,1	0,6
600	10000													37,0	19,0	6,5	2,7	1,3	0,7

Component	*NOMINAL DIAMETER in mm and inches*												
	"25 1""	"32 1 1/4""	"40 1 1/2""	"50 2""	"65 2 1/2""	"80 3""	"100 4""	"125 5""	"150 6""		"200 8""	"250 10""	"300 12""
Valve			0,3	0,3	0,3	0,6	0,6	0,9	1,2		1,5	1,8	
Non-return 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

Pressure loss / discharge resistance when using galvanized steel pipeline.
Pressure losses along the 100 m horizontal section
Pressure loss when using a different pipeline (ratio) Cast iron pipeline x 1.4
Stainless steel pipeline x 0.8
Aluminium pipeline x 0.7
PE / PVC pipeline x 0.65

Pressure systems

IBO products are a reference for quality and reliability in the pump sector in Poland.

Dambat offers a wide range of pressure systems, therefore we are able to deliver products that are perfectly adapted to customer requirements. IBO products can be adapted to virtually every household application and budget.

The selection of a product that is the most suitable for a given application depends on many factors, including:

- **What is the water demand (flow in l/min. or m^3/h)?**
  The demand will largely depend on the number of taps or pressure points that can be used simultaneously.
- **What is the pressure demand?**
  Due to losses during pumping through both vertical and horizontal sections of the pipeline, as well as during supplying water at a certain pressure to higher floors or in larger systems, the demand for pressure generated by the pump will be greater than in case of single-family houses and small systems.

A simple diagram to assist in the selection of suitable pumps is presented below. It takes into account flow and pressure demand depending on the size of the building and the number of water usage points.



Diagram for selecting device parameters



brak tłumaczenia

Sewage pumps

Dambat offers a wide range of submersible pumps for individual, commercial, agricultural and industrial applications. IBO pumps are reliable devices monitored at every stage of manufacturing process, made of robust materials, which results in increased durability compared to competing products.

in order to make the installation of devices and their operation easy and faultless, Dambat offers a wide range of devices with various parameters and features suitable for different systems. Selected single-phase pumps are available with and without a float switch. Some sewage pumps can be installed with a guide rail system.

RODZAJ ZASTOSOWANIA

Type of impurities:	Pump type	Pumps for clean water	Pumps for slightly contaminated water (swimming pool, rainwater, drainage of flooded rooms)	Pumps for dirty water contaminated with solids of up to 30 mm diameter. (swimming pool, rainwater, drainage of flooded rooms)	Pumps for dirty water contaminated with solids with diameter from 30 mm to 50 mm (slurry, liquid waste, sewage)	Pumps with cutting system for domestic raw sewage (liquid waste, sewage)	Pumps for agricultural and industrial for raw sewage (slurry, liquid waste, sewage)	Pumps for dewatering and drainage (drainage ditches, construction sites, mines, tanks containing sand or sludge)	Pump for slurry contaminated with solids (raw sewage, tanks with sediments)
Water from wells, rivers, lakes	MULTI, IP, NEMO	√	◊	◊	◊	◊	◊	◊	◊
Rainwater	IP, IPE, IPK, IP INOX, H-SWQ, IPC	√	√	◊	◊	◊	◊	◊	◊
Drainage/ dewatering.	WQX, SWQ PRO, SWQ, F-SWQ, 25-KBFU-0,45	√	√	◊	◊	◊	◊	◊	◊
Dirty water Liquid waste	SN-450, MAGNUM, WQF	√	√	√	◊	◊	◊	◊	◊
Faecal matter Drainage/ dewatering	WQ PRO, SWQ SEPTIC, BIG, WQ PROFESIONAL	√	√	√	√	◊	◊	◊	◊
	CTR, FURIATKA, V, WQI, SWQ1300, SWQ2200	√	√	√	√	√	◊	◊	◊
	KRAKEN, UP, UP-H, ZWQ	√	√	√	√	√	√	◊	◊
	KBFU	√	√	√	◊	◊	◊	√	◊
Sediments Slurry	MWQ	√	√	√	√	◊	◊	◊	√

Useful information

If you need assistance in selecting a pump, please check the data below and contact us.

Most of our distributors are professional companies operating in the pumping sector and having proper knowledge in scope of the selection of pumping devices and equipment. However, if you have difficulties is selecting the right device, please answer the following questions and contact us, our technical advisers will try to find a product that suits your requirements.

Please answer the following questions

1. What will the pump be used for?

- ☐ • Increasing system pressure
- ☐ • Garden watering/sprinklers
- ☐ • Irrigation
- ☐ • Heating systems
- ☐ • Sewer system/liquid waste
- ☐ • Dewatering/drainage
- ☐ • Water transfer
- ☐ • Firewater systems
- • Other (please specify)

.....

2. Required operating pressure at specified flow ..... Bar

3. Required flow at specified pressure ..... l/min or

4. What is the planned or existing water intake?

- ☐ • Deep well
- ☐ • Ring well
- ☐ • Suction pit
- ☐ • Instalacje
- ☐ • Rainwater tank (foldable)
- ☐ • River, stream, canal
- ☐ • Lake
- ☐ • Water supply system
- ☐ • Excavations
- • Other (please specify)

.....

5. Water type

- ☐ • Clean water
- ☐ • Dirty water
- ☐ • Water with sand
- ☐ • Sewage/liquid waste
- • Other (please specify)

.....

6. Deep well

Internal diameter of the well pipe ..... (mm)

At what depth is the water surface? ..... (m)

Well output (we recommend to carry out survey) ..... (l/min)

Horizontal distance of the well to the pressure tank ..... (m)

Level difference between the well opening and the destination point ..... (m)

7. Ring well

At what depth is the water surface? ..... (m)

Well output (we recommend to carry out survey) ..... (l/min)

Horizontal distance of the well to the pressure tank ..... (m)

Level difference between the well opening and the destination point ..... (m)

7. Lake

- • Horizontal distance from the well to the pressure tank ..... (m)
- • Level difference between the well opening and the destination point ..... (m)

8. What is the pipeline made of?

- ☐ • Galvanized
- ☐ • PCV / PE
- ☐ • Stainless steel/copper
- ☐ • Discharge hose
- • Other (please specify)

.....

9. Discharge pipe diameter ..... (mm)

10. Required power source?

- ☐ • Electric motor (230V)
- ☐ • Electric motor (40OV)
- ☐ • Electric motor (12V)
- ☐ • Internal combustion engine
- ☐ • Piston (hand) pump
- ☐ • PTO shaft
- • Other (please specify)

.....

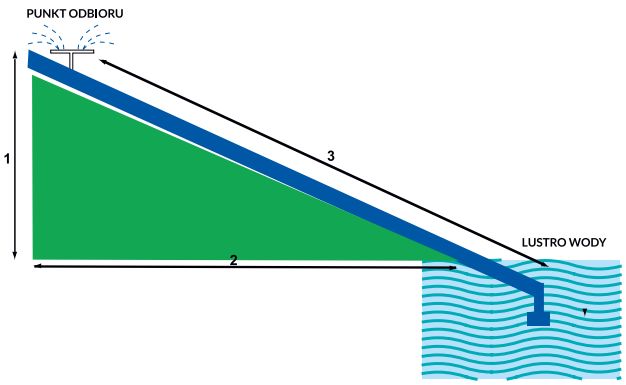
11. Is a pressure tank required? If yes, please specify what type.

- ☐ • 24
- ☐ • 50
- ☐ • 100
- ☐ • 150
- ☐ • 200
- ☐ • 300
- ☐ • 500
- ☐ • 1000

12. Is control required? If yes, please specify what type.

- ☐ • Frequency converter
- ☐ • Pressure switch
- ☐ • Automatic flow switch
- ☐ • Protection
- • Other (please specify)

.....



Sample water demand depending on application is shown below.
It should be taken into consideration that the demand may differ depending on the economic and geographical development, therefore the data presented below should be used for informative purposes to assist in the selection of the device. In order to pump water from intakes with surface pumps, negative pressure (so-called suction) is required.

In order to assist in the selection of the device, the factors that affect the suction height are presented below:

- Altitude: atmospheric pressure decreases with increasing altitude.
- Flow: the higher the flow rate through the pump, the lower the negative pressure created by the pump.
- Water temperature: the higher the water temperature, the lower the suction capacity.
- Losses: not only the vertical section on which the water surface is located but also the horizontal section should be taken into account.

The height above sea level at which the pump operates is also very important.

HOUSEHOLD	HOUSEHOLD
Shower: 8-10 l/m. at 1.4 bar	Cattle: 30-55 litres / day
Small lawn sprinkler: 15-20 l/m. at 1.4 bar	Dairy cows: 30-55 litres / day
1/2″ tap: 12-18 l/m. at 1.4 bar	Sheep: 30-55 litres / day
3/4" hose + 1/4″ nozzle: 40-50 l/m. at 2.1 bar	Pigs: 30-55 litres / day
1" hose + 3/8″ nozzle: 70-90 l/m. at 2.1 bar	Pigs: 30-55 litres / day Horses: 30-55 litres / day

WATER TEMPERATURE (° C)	HEAD LOSSES (m)
15	0
20	0,06
30	0,22
40	0,52
50	0,98
60	1,73
70	2,85
80	4,51

LENGHT		
cale	stopy	cm
1,00	0,08	2,54
12,00	1,00	30,48
36,00	3,00	91,44
39,37	3,28	100,00

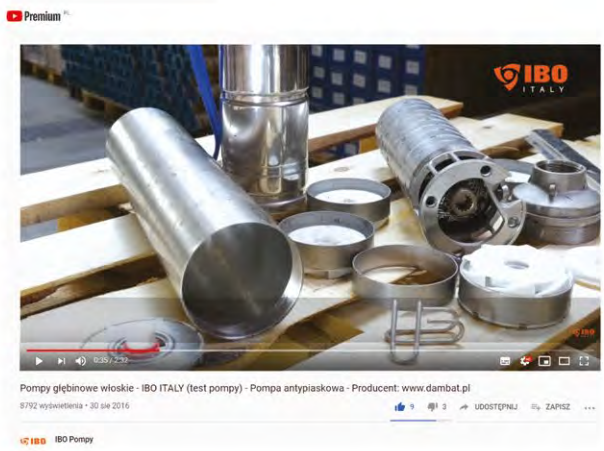
FLOW		
l/min	l/sek	m^3/h
10	0,17	0,60
16,7	0,28	1
60	1	3,60

VOLUME UNITS		
litre	m^3	gallon
1	0,001	0,22
1000	1	220
4,546	0,0045	1

PRESSURE			
m	kPa	bar	psi
1	9,81	0,10	1,42
10	98,1	0,98	14,2
10,2	100	1	14,5
70,4	690,8	6,9	100
101,9	999,6	10	144,7

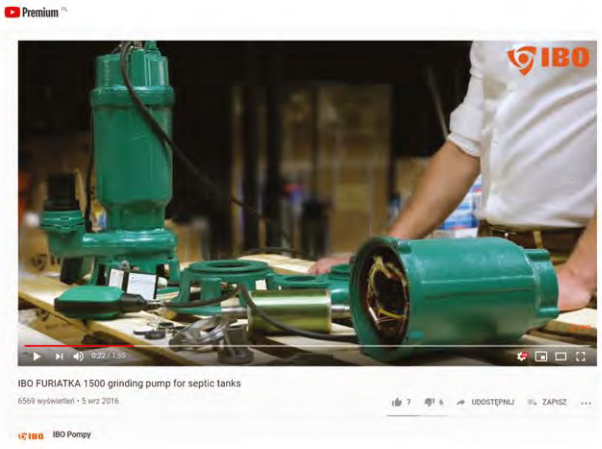
LEVEL	*SUCTION CAPACITY*	*VOLUME*	
Sea level	6,7 m	litr	m^3
500m	6,1 m	1	0
700m	5,8 m	1000	1
1000m	5,5 m	40,546	0,0045
1500m	5,0 m	30,785	0,0038
2000m	4,5 m	280,32	0,0283

VISIT YOUTUBE TO WATCH OUR PRODUCTS IN ACTION: IBO PUMPS









IBO PRODUCTS ARE ALSO APPROVED FOR SALE ON THE EUROASIAN CUSTOMS UNION MARKETS: Таможенный союзЕАЭС


ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

EAC

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ЕАЭС RU C-PL.АЖ40.B.00801/20

Серия RU № 0226971

ОРГАН ПО СЕРТИФИКАЦИИ

ЗАЯВИТЕЛЬ ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "ПИБ"

ИЗГОТОВИТЕЛЬ PHU DAMBAT

ПРОДУКЦИЯ

КОД ТН ВЭД ЕАЭС

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ

СЕРТИФИКАТ СООТВЕТСТВИЯ ВЫДАН НА ОСНОВАНИИ

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

СРОК ДЕЙСТВИЯ С 20.01.2020 ПО 19.01.2025 ВКЛЮЧИТЕЛЬНО


ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ЕАЭС RU C-PL.АЖ40.B.00801/20

Серия RU № 0711449

Перечень продукции, на которую распространяется действие сертификата соответствия

Код товара ТН ВЭД ТС	Наименование, типы, марки, модели продукции, составные части изделия или компонент	Обозначение документации, по которой выпускается продукция
8413702100, 8413702900, 8413703000, 8413705100	Оборудование насосное: погружные насосы, электропогружные насосы глубинные, насосы поверхностные, насосные станции циркуляционные насосы	Директива 2014/35/EU «Низковольтное оборудование», 2014/30/EU «Электромагнитная совместимость»
	Насосы погружные: серии (типы): IP, IP INOX, IPK, IPC, MULTI IP, MULTI, IPF, SN, CTR, V, BIG, MAGNUM, FURIATKA, FURIA, KRAKEN, WQE, WQ, WQX, WQK, SWQ, ZWQ, WQI, SWQ, F-SWQ, H-SWQ, SWQ-F, SWQ-H, SWQ SEPTIC, 25KBFU, 50KBFU, 80KBFU, 100KBFU, KBFU, VIPER, IVJA, BUNTER, DE, Stan, UP, Area	
	Электронасосы погружные глубинные: серии (типы): OLA, NEMO, VM, RUSSLAND, STING, 2STING, 2"STING, SQIBO, 3"SQIBO, 3SQIBO, QID, 4QID, 3,5QID, 3in, ITI, 3"TI, 3"TI, SKT, 5Ks, 3SKT, 3"SKT, 4SKT, 4"SKT, STM, 2,5"Stm, 3"Stm, 2,5 STM, 2,5"STM, 3STm, 3"STM, 3 STM, 3HQ, 3"HQ, 4HQ, 4"HQ, ISP, 3ISP, 3"ISP, 3"ISP, 3SPM, 3ISPm, 3ISPm0, 3"ISPm0,4ISPM, 4ISPm, 4ISPm0, 4"ISPm0, 4"ISP, 6SP, 6"ISP, 6ISP, SDM, 3SDM, 3SDm, 3"SDM, 3,5SDM, 3,5"SDM, 3,5SDm, 3,5SD, 3,5"SD, SD, 4"SD, 6SD, 4SDM, 4"SDM, 4SDm, 4SKm, 4"SKm, 5SD, 5"SD, 6SD, 6"SD, SCM, 3,5 SCM, 3,5"SCM, SC, 3,5SC, 3,5"SC, SCR, 3SCR, 3,5"SCR, 3,5 SCR, SKM, 3SKM,3SKm, 3"SKM, 4"SKM, 4SKM, 4SKm, SKT, 4SKT, 4SKt, 4"SKT, DIPPER, 4"DIPPER, 4DIPPER, GSK 4-16, GSK 6-16, FP4, FP, AP, AP6, FX, FX6, FX8, FX10	
	Насосы поверхностные, серии (типы): AJ, JET, JET 100, JET100A, JET100 (a), JET100(a)A, PJ, Garden, Green, Multi Set IVR, QB, PCM, PR, PR AUTO, ML LTI, MultiL, JSW, MH, MH, WZ, WZI, HP, BJ, CPM, F-CPM, HP, WZC, WZCB, MULTI HWA, AOP, OP, OP-A, KMQ, DP, CONIBO, CV, CVF, CVI, SWIM, PR, SBAW, COLP, SANIBO, AQUASAN, CONAQUA, IWH, IWH2, MC1, VMH, JA	
	Циркуляционные насосы, серии (типы): ORE, BETA, BETA7, IPML, IBO, CPL MAGI, NOVA, OHI PRO, E-IBO, W, W15, EH, RH, DELTA	

Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-аудитор) (эксперты (эксперты-аудиторы))