

Deepwell submersible pumps with 3" diameter for clear water

H 832

Application

HOMA high pressure submersible pumps are suitable for pumping clear water with high pressure from bore holes or narrow wells. They are used for domestic water supply, irrigation, garden watering from cisterns or similar, in fountain displays, watering place, ground water drainage etc.

In combination with the electronic control panel HPS 2 or with a pressure tank, pressure switch and an electrical control panel the pumps can operate automatically (see accessories).

Installation: The pumps operate in vertical or horizontal position. For vertical operation in a well the pump must be suspended on a rope.

Pumped liquid: Clear water.

Max. liquid temperature: 35°C.

Operation: Permanent (S1).

Design

Fully submersible pump consisting of:

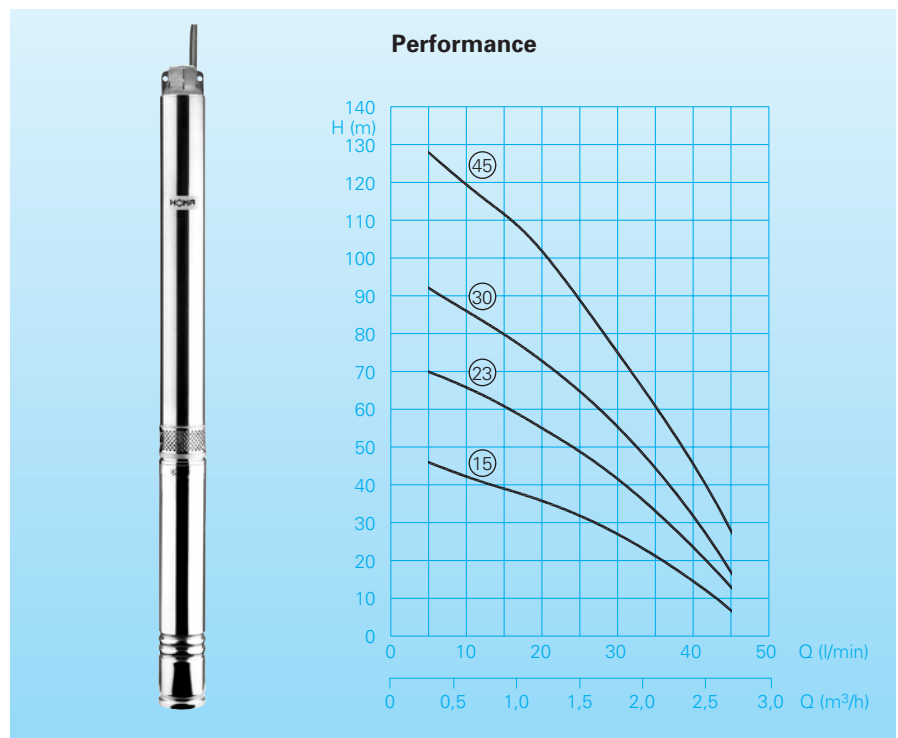
Pump: Multistage centrifugal pump with vertical discharge BSP 1" F.

Impeller: Closed multi-channel impellers, spherical clearance 1,5 mm. Wear rings made of stainless steel.

Motor: Fully submersible, pressure tight electric motor, oil filled. Insulation class F. Motor protection IP 68. Thermal sensors embedded in the motor winding.

Shaft/bearings: Large diameter stainless steel rotor shaft, pre-lubricated bearings.

Seals: Mechanical seal.



Technical Data

Curve No.	Pump type	Motor-output P ₂ (kW)	Capacitor* (µF)	Nominal current (A)	Cable length (m)	Weight (kg)
15	H 832-15/0,37 W	0,37	16	3,75	1,5	9,3
15	H 832-15/0,37 D	0,37		2,00	1,5	9,3
23	H 832-23/0,55 W	0,55	20	4,50	1,5	10,8
23	H 832-23/0,55 D	0,55		2,10	1,5	10,5
30	H 832-30/0,75 W	0,75	25	5,85	1,5	12,4
30	H 832-30/0,75 D	0,75		2,50	1,5	12,0
45	H 832-45/1,10 D	1,10		3,20	1,5	14,4

Speed: 2900 rpm

*Capacitor: For the operation it is necessary to install a capacitor in the control box.

Model W: 230-240V/1Ph

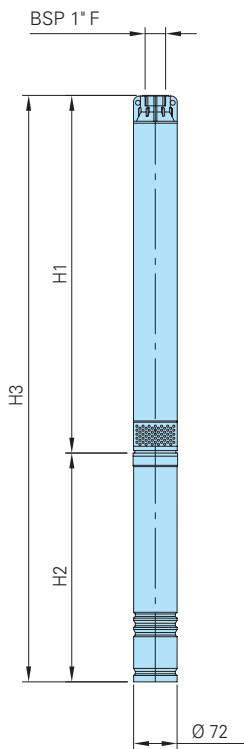
Model D: 400-415V/3Ph

Materials:

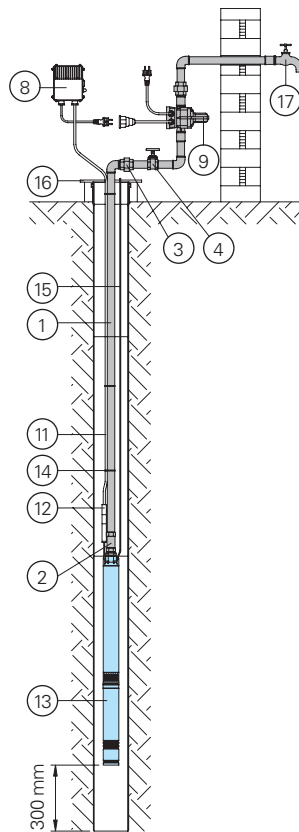
Pump housing Motor housing, Suction sieve, Motor shaft	Stainless steel
Impeller	Glass-fibre reinforced synthetic material (composite)
Mechanical seal	Carbone graphite / Stainless steel
Elastomere	Perbonane

Equipment supplied

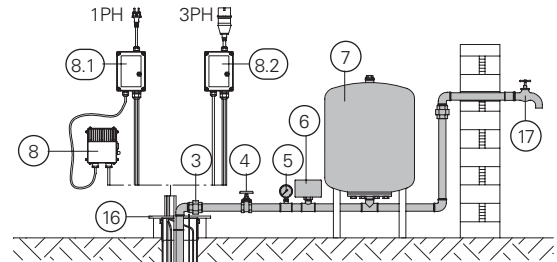
Pump with integrated non-return valve and 1,5 m of cable. The single phase pumps require a capacitor for operation, which is integrated in the control box (see accessories).



Domestic water supply system with electronic control box HPS 2



Domestic water supply system with diaphragm pressure tank



- ① Discharge pipe
- ② Check valve
- ③ Coupling
- ④ Gate valve
- ⑤ Pressure gauge
- ⑥ Pressure switch
- ⑦ Diaphragm pressure tank
- ⑧ Control box for AC
- ⑧.1 Dry running control panel for AC
- ⑧.2 Control box for DC
- ⑨ HPS 2 control box
- ⑩.1 Earth return electrode
- ⑩.2 Lower electrode (out out level)
- ⑩.3 Upper electrode (start level)
- ⑪ Cable
- ⑫ Cable connector
- ⑬ Submersible pump
- ⑭ Cable strap
- ⑮ Steel rope
- ⑯ Supporting clamp
- ⑰ Hydrants

Pump type	H1	H2	H3
H 832-15/0,37 W	580	371	951
H 832-15/0,37 D	580	371	951
H 832-23/0,55 W	780	371	1151
H 832-23/0,55 D	780	371	1151
H 832-30/0,75 W	1000	391	1391
H 832-30/0,75 D	1000	391	1391
H 832-45/1,10 D	1380	410	1790

all dimensions in mm

Part Description	Dimension	Part-No.
① Galvanized tube, per m BSP 1"		2100150
○ Galvanized fittings,		on request
○ Tube PE-HD, polyethylene		on request
○ Screw connection, PE-HD		on request
○ Reinforced hose, per m BSP 1"		2632025
○ Brass STA-hose coupling BSP 1"		2001310
○ Hose band BSP 1"		2302330
② Bronze non-return valve BSP 1" F		2211113
③ Galvanized coupling BSP 1" F		2114303
④ Bronze gate valve BSP 1" F		2216010
⑤ Manometer 0 – 10 bar BSP 1/4" M		8503240
⑥ Pressure switch 0,5 – 11 bar BSP 1/4" M		1254011
⑦ Diaphragm pressure tank		on request
⑧ Single phase control panel with motor	0,37 kW	1921000
protection, capacitor,	0,55 kW	1921002
on-off-switch- plug, up to	0,75 kW	1921003

Part Description	Dimension	Part-No.
⑧.1 Single phase protection against dry-running with composite housing IP 54, 3 electrodes, electro relays, plug, without electrode cable up to	0,55 kW	1921030
	0,75 kW	1921032
⑧.2 Three phase control panel with motor protection, on-off-switch, CEE-plug, up to	0,37 kW	1926010
	0,75 kW	1926015
	1,1 kW	1926020
⑧.3 Three phase control panel as above, additional with relay and 2 electrodes (mounting a composite tube a third electrode must be used as an earth conductor), without cable, up to	0,37 kW	1921070
	0,75 kW	1921072
	1,1 kW	1921074
⑨ HPS 2 electronic pump control box with dry-run protection	BSP 1" M	1468560
⑩ Electrode		1041207
⑪ Rubber-sheated cable, per m		1041541
⑫ Coupling sleeve		1124020



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