

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, short term up to 60°C.

Operation: Permanent (S1).

Design

Fully submersible pump consisting of:

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

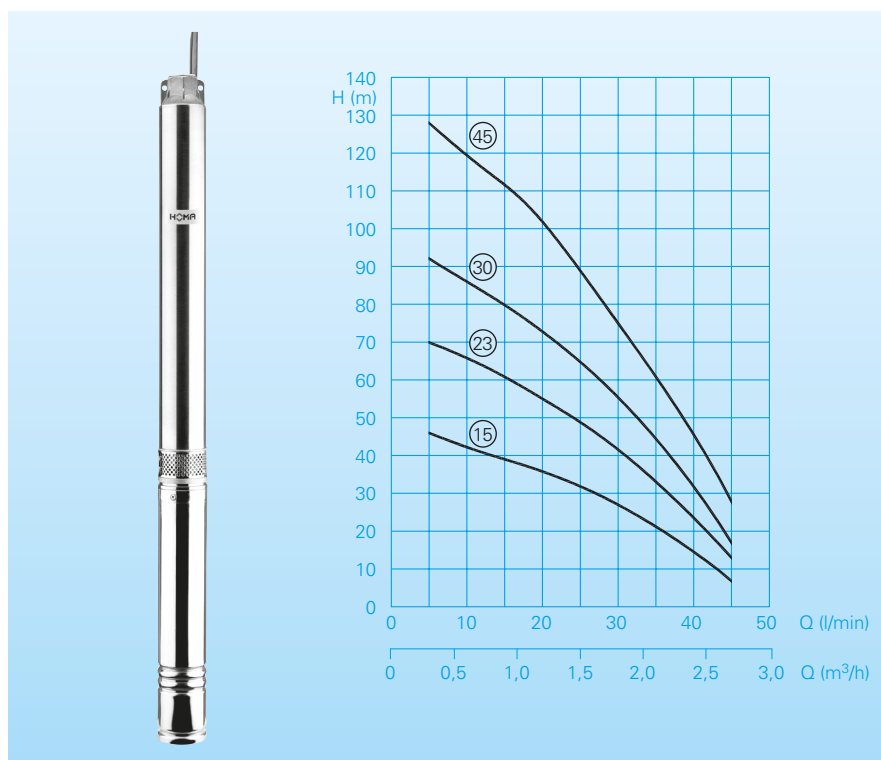
Impeller: Closed multi-channel impellers, spherical clearance 1 mm. Wear rings made of stainless steel.

Motor: Fully submersible, pressure tight electric motor, oil filled. Insulation class B. 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.

Performances



Technical Data

Curve No.	Pump type	Motoputput P ₂ (kW)	Capacitor* (μF)	Norminal current (A)	Cable length (m)	Weight (kg)
15	H832-15/0,37 W	0,37	16	3,8	30	9,3
15	H832-15/0,37 D	0,37		2,0	30	9,3
23	H832-23/0,55 W	0,55	20	4,5	30	10,8
23	H832-23/0,55 D	0,55		2,1	30	10,5
30	H832-30/0,75 W	0,75	25	5,9	30	12,4
30	H832-30/0,75 D	0,75		2,5	30	12,0
45	H832-45/1,10 D	1,10		3,2	30	14,4

Speed: 2900 rpm
Model W: 230V/1Ph 50Hz
Model D: 400V/3Ph 50Hz

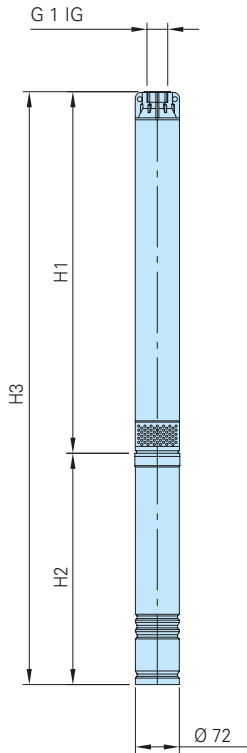
* **Capacitor:** For the operation it is necessary to install a capacitor in the control box.

Materials

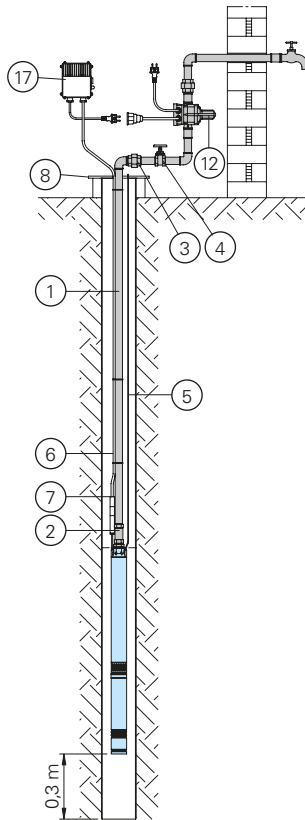
Pump housing	
Motor housing,	
Suction sieve,	
Motor shaft	stainless steel
Impeller,	Glass-fibre reinforced synthetic material (composite)
Mechanical seal	Carbone graphite / Stainless steel
Elastomere	Perbonane

Equipment supplied

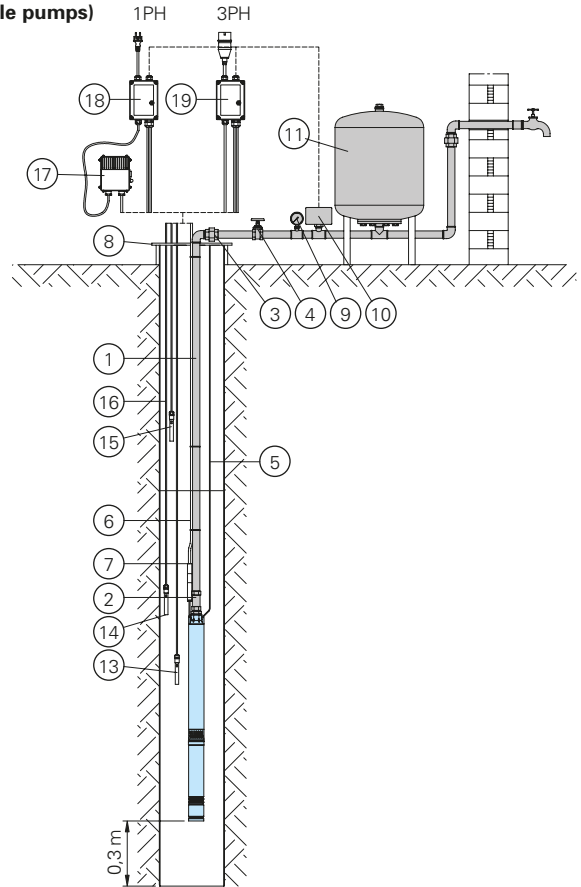
Pump with integrated non-return valve and 30 m of cable. The single phase pumps require a capacitor for operation, which is integrated in the control box (see accessories).



Domestic water supply system with electronic control box HPS 2 (only for single phase submersible pumps)



Domestic water supply system with diaphragm pressure tank



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

Part Description	Dim.	Part-No.	Part Description	Dim.	Part-No.
① Galvanized tube, per m	BSP1" F	2100150	⑩ gnd-electrode		1610992
Galvanized fittings		on request	⑭ off-electrode		1610992
Composite tube, PE-HD	BSP1" F	on request	⑮ on-electrode		1610992
Composite fittings, PE-HD		on request	⑯ Electrode, per m		1041207
② Bronze non-return valve	BSP1" F	2211113	⑰ Single phase control panel with composite housing IP54, motor protection, capacitor, on-off-switch, operation light, plug, up to	0,37 kW 0,55 kW 0,75 kW	1921000 1921002 1921003
③ Galvanized coupling	BSP1" F	2114303	⑱ Single phase control panel with dry-run protection, composite housing IP 54, 3 electrodes, electrode relay, plug without electrode cable, up to	0,55 kW 0,75 kW	1921030 1921032
④ Flanged gate valve	BSP1" F	2216010	⑲ Three phase control panel with composite housing IP54, motor protection, on-off-switch, plug with phase changer, up to	2,5 A 4,4 A	1926015 1926020
⑤ Rope, stainless steel	4,0 mm	on request	or		
⑥ Rubber-sheated cable, per m	4G1,5	1041541	⑳ Three phase control panel with composite housing IP54, motor protection, on-off-switch, dry-run protection, 3 electrodes, electrode relay, plug with phase changer without electrode cable, up to	2,4 A 4,0 A	1921072 1921074
⑦ Coupling sleeve		1124030			
⑧ Supporting clamp		on request			
⑨ Manometer	BSP ¹ / ₄ " M	8503240			
Manometer with higher measuring range		on request			
⑩ Pressure switch 0,5 – 11 bar	BSP ¹ / ₂ " F	1254011			
Pressure switch with higher pressure range		on request			
⑪ Diaphragm pressure tank		on request			
⑫ HPS 2 electronic pump control box with protection against dry-running, max. switching capacity BA, max. pressure 10 bar	BSP1" M	1468560			



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