

High pressure-submersible motor pumps with a diameter of 4" up to 5" for clear water.

H802 - H818

Application

HOMA high pressure submersible pumps are suitable for pumping clear water with high pressure, even from narrow boreholes or narrow wells. They are used for domestic water supply, irrigation, garden watering from cisterns or similar, in fountain displays, ground water drainage and so on.

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 can operate in vertical or horizontal position. For vertical operation in a well the pump must be suspended on a rope.

Pumped medium: Clean water. Max. temperature of pumped medium: 35°C

Operating mode: Continuous operation (S1).

Design

Fully submersible pump, consisting of:

Pump: Multistage centrifugal pump with the discharge on top.

Impellers: closed multi-channel impellers, free passage 1 mm- 1,5 mm. Wear rings made of stainless steel.

Motor: Pressure watertight, medium-immersed motor, oil-filled. Insulation class F, Protection rating IP 68. Thermal sensor for temperature monitoring in the winding.

Shaft/bearing: strongly dimensioned chrome steel motor shaft, lifetime-lubricated roller bearings

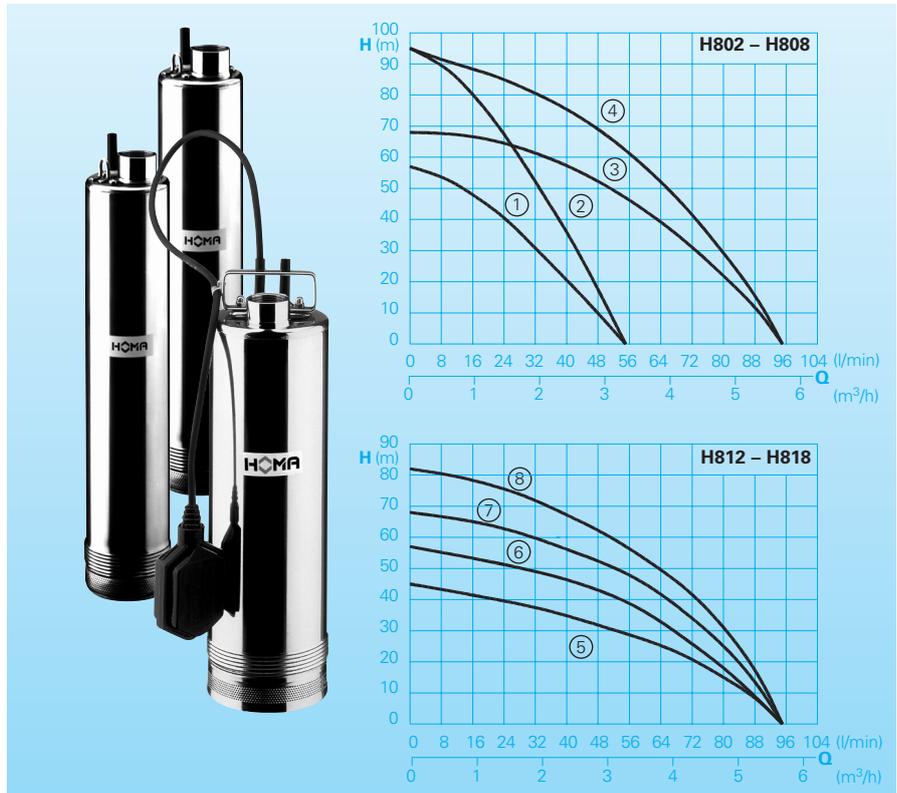
Seal: Double shaft seal with mechanical seal and additional shaft sealing ring.

Accessories control panel

The electronic control panel HPS2 controls the pump by monitoring of water pressure and water flow. It switches the pump on when the tap is closed. The HPS2 also realizes, when the pump does not lift in case of water shortage and switch it automatically off. Operation conditions are shown on the display LED.



Conveying capacities



Technical data

Curve No.	Pump type	Motor input P ₁ (kW)	Motor input P ₂ (kW)	Nominal current (A)	Connecting cable	Weight (kg)
①	H802 W	0,95	0,55	4,1	H07RN-F3G1	10
②	H804 W	1,40	0,75	7,0	H07RN-F4G1	13
③	H806 W	1,50	0,75	7,0	H07RN-F4G1	13
④	H808 W	2,00	1,10	9,0	H07RN-F4G1	15
⑤	H812 WA	1,00	0,60	4,4	H07RN-F3G1	12
⑥	H816 SW	1,25	0,75	6,0	H07RN-F3G1	13
⑦	H816 WA	1,55	0,90	7,0	H07RN-F3G1	14
⑧	H818 WA	1,80	1,20	8,5	H07RN-F3G1	15

Rotational speed: 2900 rpm

Model W: 230V/1Ph 50Hz

Model S: with sideways suction inlet

Model A: with automatic float switch
HOMA-Nivomatik

Materials

Pump housing, motor housing, suction sieve, motor shaft	Stainless steel
Impellers	glass fibre reinforced plastic
Mechanical seal	Carbon graphite Aluminium
Elastomers	NBR

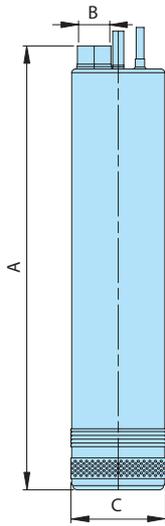
Scope of supply

H804, H806, H808: pump with 20 m connecting cable, switchgear with capacitor, motor protection and mains plug.

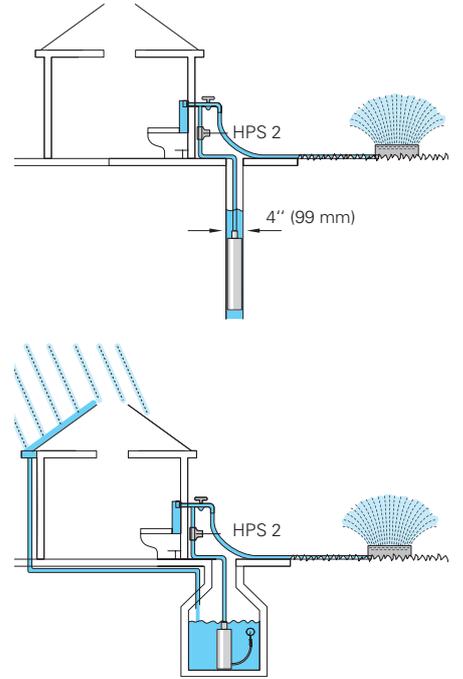
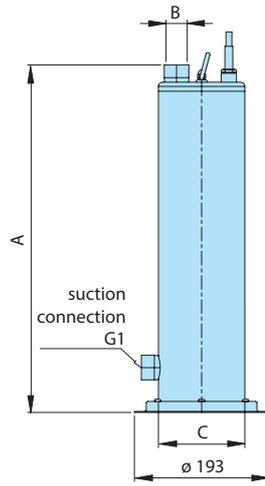
H802, H812, H816(S), H818: pump with 20 m connecting cable and mains plug.

Dimensions and installation example (all dimensions in mm)

H802 - H818



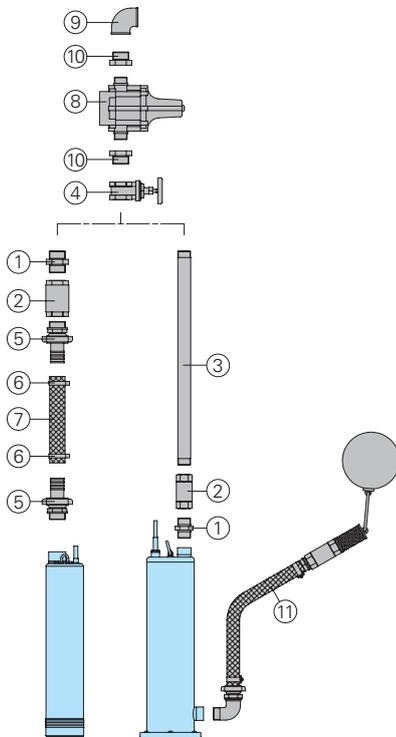
H816 S



Pump type	A	B	C
H802 W	585	G1	Ø 100
H804 W	751	G1 1/4	Ø 100
H806 W	632	G1 1/4	Ø 100
H808 W	802	G1 1/4	Ø 100

Pump type	A	B	C
H812 WA	476	G1 1/4	Ø 127
H816 WA	529	G1 1/4	Ø 127
H816 SW	607	G1	Ø 190
H818 WA	605	G1 1/4	Ø 127

Accessories



Description	Size	Part no.
① Double nipple, Messing	BSP 1" M BSP 1 1/4" M	2009022 2009019
② Check valve, Messing	BSP 1" F BSP 1 1/4" F	2009026 2009027
③ Thread pipe	BSP 1" M BSP 1 1/4" M	2100150 2100153
④ Shut-off gate valve, brass	BSP 1" F BSP 1 1/4" F	2216010 2216012
⑤ STA-threaded hose-fitting, brass	BSP 1" M BSP 1 1/4" M	2001313 2001413
⑥ Hose clamp	1" 1 1/4"	2302330 2303252
⑦ Plastic spiral hose pressure resistant up to 7 bar, per m	1" Ø 25 mm	2632025

Description	Size	Part no.
⑧ HPS 2 Electronic pump control box with dry protection run	BSP 1" M	1468560
⑨ 90° bend, galvanized	BSP 1" F/M BSP 1 1/4" F/M	2111305 2111405
⑩ Reduction piece, brass	BSP 1 1/4" M x BSP 1" F	2113604 2109400
⑪ Floating water extraction (2m spiral hose)		8801010
○ Diaphragm pressure tank with pressure switch and control box dry-run protection		on request

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