

**Submersible motor pumps  
with jacket cooling  
for abrasive drainage water.**

## HBP500/7,5 - HBP500/11,0

### Application

Pump for conveying clean or soiled water, also containing abrasive sand or sludge. Application areas include e.g. cellar draining, water table drawdown, drainage of construction sites or shafts, application on board ships, emergency deployment for flooding etc.

The flow of the medium delivered around the motor ensures sufficient cooling, even with extremely low water level.

**Installation:** Stationary or mobile. Version with float switch for use as automatic water level controlled drainage pump.

**Pumped medium:** Clear- and drainage water with abrasive sand or mud additives, max. temperature of pumped medium: 40°C

**Operating mode:** Continuous operation (S1).

### Design

Fully submersible pump, consisting of:

**Pump:** Single stage centrifugal pump with the discharge on top.

**Impeller:** Open multi-blade impeller

**Motor:** Pressure watertight, medium-immersed motor, Insulation class F, Protection rating IP 68. Cable connection chamber totally isolated from motor housing.

Thermal sensor for temperature monitoring in the winding.

Connecting cable:

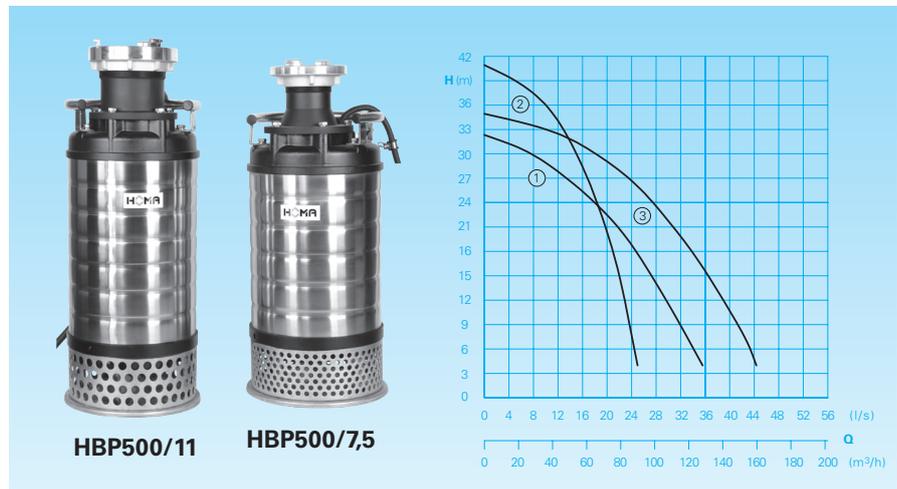
HBP500/7,5: H07RN-F4G4

HBP500/11: H07RN-F4G6

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

**Seal:** Shaft seal combined with a double action mechanical seal in oil bath.

### Conveying capacity



### Technical data

Curve No.	Pump type	Motor input P <sub>1</sub> (kW)	P <sub>2</sub> (kW)	Nominal current (A)	Free passage (mm)	Discharge	Weight (kg)
①	HBP500/7,5 D(A)	9,0	7,5	15	20	G6	110
②	HBP500/7,5 HD(A)	9,0	7,5	15	12	G4	108
③	HBP500/11,0 D(A)	13,3	11	22	20	G6	125

**Rotational speed:** 2850 rpm

**Model D:** 400V/3Ph 50Hz

**Model A:** with automatic float switch  
HOMA-Nivomatik

**Model H:** high pressure

### Materials

Motor housing	Stainless steel
Motor shaft	Stainless steel
Screws	Stainless steel
Impeller	Hard cast iron
Pump housing	Cast iron GJS
Outer casing	Stainless steel
Shaft seal	Shaft sealing ring NBR + double action mechanical seal ceramic/coal/SiC
Elastomers	NBR

### Scope of supply

Pump with 20 m of connecting cable and STORZ-fixed coupling.

#### Model DA (400 V/3 Ph):

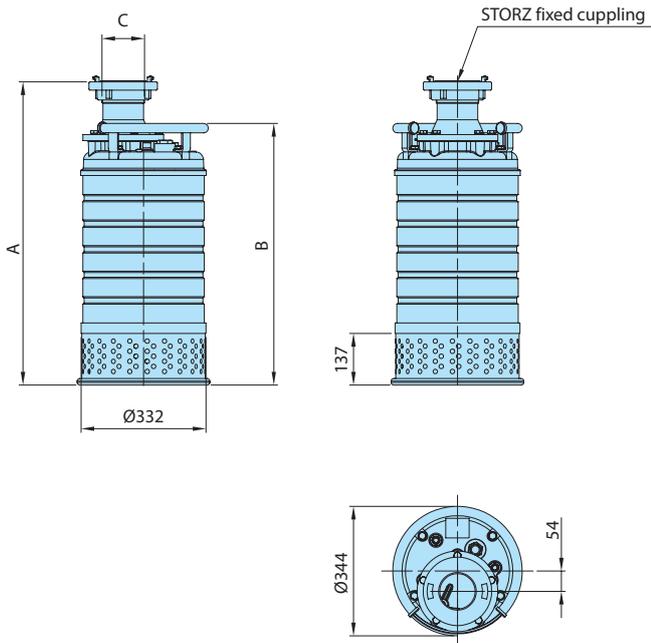
With automatic float switch HOMA-Nivomatik, HOMA switchgear DA20/32(33), motor protection, ON-OFF switch, 16A(32A) CEE-reversing plug

#### Model D (400 V/3 Ph):

With HOMA switchgear D32(33), motor protection, ON-OFF switch, 16A(32A) CEE-reversing plug

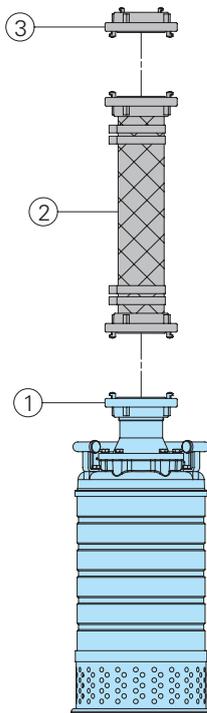
**Dimensions and installation example** (all dimensions in mm)

**HBP500/7,5 D(A), HBP500/7,5 HD(A), HBP500/11 D(A)**



Type	A	B	C	Coupling
HBP500/7,5 D(A)	816	696	G6	STORZ-F
HBP500/7,5 HD(A)	806	696	G4	STORZ-A
HBP500/11 D(A)	861	741	G6	STORZ-F

**Accessories**



Description	Size	Part no.	Description	Size	Part no.
① STORZ- fixed coupling		in scope of supply	○ Mains-dependent alarm switchgear AL3 with connector for 9 V rechargeable battery (see below) for operation independent of mains power supply, with built-in signal transmitter, float switch and 10 m of cable. Main phase connection 230V/1Ph		1586141
STORZ hose coupling with long nozzle	A-110 mm F-150 mm	2013801 2013901	○ Battery 9V for mains-independent alarm		1952215
② Synthetic-pressure hose, Size A+F		on request	○ For pump controllers and switchgears for mobile and stationary applications, measuring systems and monitoring devices, see HOMA accessories		
Plastic spiral hose	Ø 110 mm Ø 150 mm	2632110 2632150			
Hose clamp	S 117/25 S 168/30	2311520 2317520			
③ STORZ- transition piece	A-B F-A	2015612 2015622			

We reserve the right to alter our specifications without notice!