

## Submersible drainage pumps jacket cooled for abrasive drainage water.

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

#### Application

Pump for conveying clear water or drainage water with abrasive sand or mud additives. The pumps are used to pump surface water from building sites, wells, subways or tunnels, for lowering ground water, for irrigation, supply of industrial water, application on board ships etc.

**Installation:** Permanent or trans-portable. Version with float switch for use as automatic water level controlled drainage pump.

**Conveying medium:** Clear water or drainage water with abrasive sand or mud additives. Max. liquid temperature: 40°C

**Operation:** Permanent (S1).

#### Design

Fully submersible drainage pump consisting of:

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

**Impeller:** open multi-channel impeller

**Motor:** pressure tight, jacket cooled motor, insulation class F, Motor protection IP 68. Cable connection chamber totally isolated from motor housing. With thermal sensor embedded in motor winding.

Connection cable:

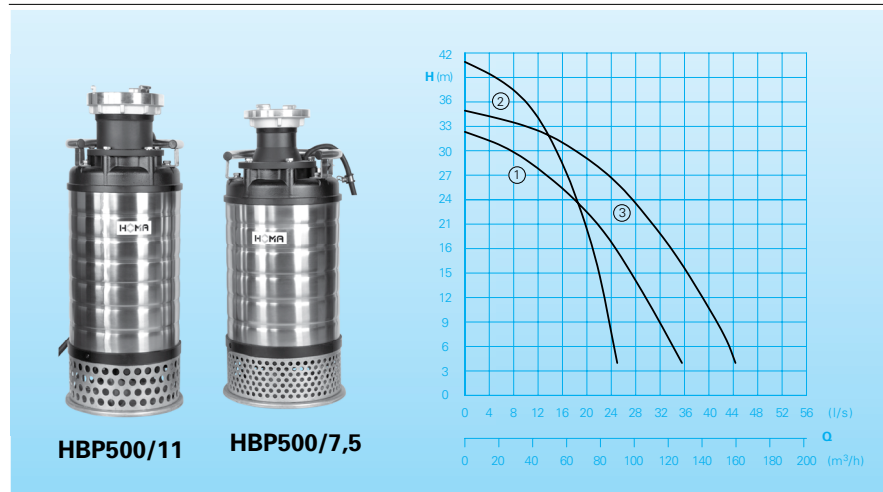
HBP500/7,5: H07RN-F4G4

HBP500/11: H07RN-F4G6

**Shaft/Bearing:** generously-proportioned chromium steel motor shaft, permanently-lubricated roller bearing.

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

#### Performance



#### Technical Data

| Curve No. | Pump type        | Motor power<br>P <sub>1</sub><br>(kW) | Motor power<br>P <sub>2</sub><br>(kW) | Nominal current (A) | Spherical clearance | 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                                    | 20                  | 20                  | G6        | 125         |

**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<br>HBP501-512 | Shaft sealing ring<br>NBR<br>+ double action<br>mechanical seal<br>Ceramic/Coal/SiC |
| Elastomer                | NBR                                                                                 |

#### Equipment supplied

Pump with 20 m connection cable and STORZ coupling.

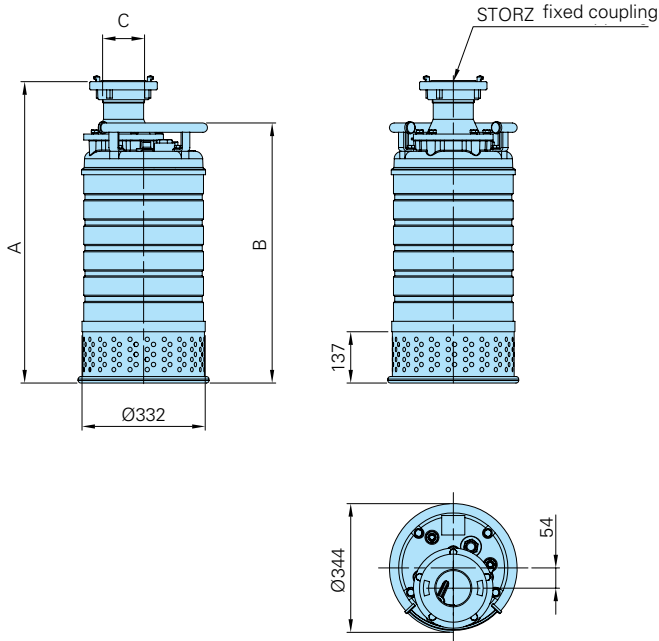
#### Model DA (400 V/3 Ph):

With automatic float switch HOMA Nivomatik (A), HOMA switch gear DA20/32(33), Motor protection, ON-OFF switch, 16A(32A) CEE phase inverter.

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

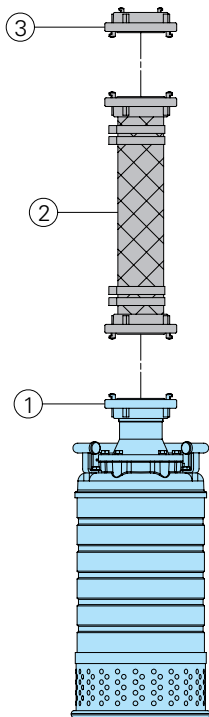
with HOMA switch gear D32(33), motor protection, ON-OFF switch, 16A (32A) CEE phase inverter.

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               |          | included   | ○ Mains-dependent alarm control unit AL3 with connector for 9 V rechargeable battery (see below) for operation independent of mains power supply, with built-in signal transmitter, main phase connection 230 V/1 Ph |      | 1586141   |
| STORZ hose coupling with long nozzle | A-110 mm | 2013801    |                                                                                                                                                                                                                      |      |           |
|                                      | F-150 mm | 2013901    |                                                                                                                                                                                                                      |      |           |
| ② Synthetic pressure-hose, size A+F  |          | on request | Battery for mains-independent operation 9V                                                                                                                                                                           |      | 1952215   |
| Plastic-spiral hose                  | Ø 110 mm | 2632110    |                                                                                                                                                                                                                      |      |           |
|                                      | Ø 150 mm | 2632150    |                                                                                                                                                                                                                      |      |           |
| Hose clip                            | S 117/25 | 2311520    |                                                                                                                                                                                                                      |      |           |
|                                      | S 168/30 | 2317520    |                                                                                                                                                                                                                      |      |           |
| ③ STORZ-transition piece             | A-B      | 2015612    |                                                                                                                                                                                                                      |      |           |
|                                      | F-A      | 2015622    |                                                                                                                                                                                                                      |      |           |



HOMA Pumpenfabrik GmbH  
P.O.Box 22 63, D-53814 Neunk.-Seelscheid  
Tel. +49 (0) 22 47/702-0, Fax +49 (0) 22 47/702-44  
e-mail: info@homa-pumpen.de  
www.homapumps.com