

Submersible drainage pumps jacket cooled for abrasive drainage water.

HBP501 - HBP512

Application

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

Installation: Transportable or permanent. 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:

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: Fully submersible, pressure tight, jacket cooled motor, insulation class F, Motor protection IP 68. Cable connection chamber totally isolated from motor housing. 1 phase model with thermal sensor embedded in motor

winding.

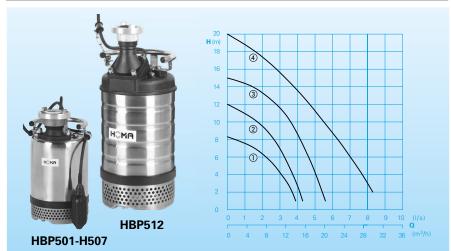
Connection cable:

HBP501-507: H07RN8-F4G1 HBP512: H07RN8-F4G1,5

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.

Performances



Technical Data

Curve No.	Pump type	Motor P ₁ (kW)	power P ₂ (kW)	Spherical clearance	Nominal current (A)	Weight (kg)
1	HBP501 WA	0,47	0,25	6	2,1	15,0
2	HBP503 WA	0,67	0,40	6	3,0	16,0
3	HBP507 WA	1,1	0,75	6	5,0	18,0
4	HBP512 WA	2,1	1,5	8	10,0	36,0
4	HBP512 D	2,0	1,5	8	3,5	37,0
4	HBP512 DA	2,0	1,5	8	3,5	39,0

Speed: 2900 rpm Discharge: BSP 2 Model W: 230V/1Ph 50Hz Model D: 400V/3Ph 50Hz

Model A: with automatic float switch HOMA-

Nivomatik

Equipment supplied

Pump with 10 m connection cable and Storz C-coupling.

Model WA (230 V/1 Ph):

With automatic float switch HOMA-Nivomatik (A), HOMA switch gear WA1, motor protection, AUTO-Manual switch, plug.

Model DA (400 V/3 Ph):

With automatic float switch HOMA-Nivomatik (A), HOMA switch gear D32, motor protection, ON-OFF switch, 16ACEE phase inverter.

Model D (400 V/3 Ph):

with HOMA switch gear D32, motor protection, ON-OFF switch, 16ACEE phase inverter.

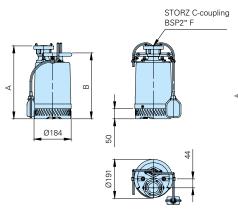
Materials

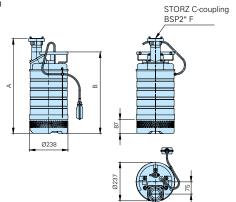
Motor housing	Stainless steel	
Motor shaft	Stainless steel	
Screws	Stainless steel	
Impeller HBP501-507 HBP512	Cast iron GJS Hard cast iron	
Pump housing, HBP501-507 HBP512	Cast iron GG Cast iron GJS	
Outer casing	Stainless steel	
Shaft seal HBP501-512	Shaft sealing ring NBR + double action mechanical seal Ceramic/Coal/SIC	
Elastomer	NBR	

HBP501, 503, 507 WA

HBP512 WA, 512 D, 512 DA

Permanent sump installation with pipework, level control and switch gear





Alarm
ON OFF

Туре	Α	В
HBP501 WA	339	305
HBP503 WA	339	305
HBP507 WA	359	325
HBP512 WA	583	501
HBP512 D	563	481
HBP512 DA	613	531

Accessories

Description	Size	PartNo.
① STORZ- fixed coupling	C-BSP 2"M	equipment supplied
Plastic-spiral hose, per m	50 mm Ø	2632050
STORZ-hose- coupling	C-52 mm	2013003
Synthetic pressure hose with rubber linings, completely with C-couplings	length 10 m length 15 m length 20 m length 30 m	2611310 2611315 2611320 2611330
Hose clip	2"	2306009
Transitional screw mounting, galvanised	BSP 2" M/F	2114311
Non-return valve, brass	BSP 2" F	2211413
6 Double nipple, galvanised	BSP 2" M	2009018
⑦ Gate valve, brass	BSP 1½" F BSP 2" F	2216015 2216020
8 90° angle, galvanised	BSP 2" F	2113606
T-piece for merging the pressure pipe in dual systems, galvanised	BSP 2" F	2114306

Description	Size	PartNo.	
O Residual current d	evice		
2-pin, Fi 16/0.03 A		1561160	
O Mains-dependent	alarm		
00116101 011167 120 111611	control unit AL3 with		
connector for 9 V			
rechargeable battery			
	(see below) for operation		
	independent of mains		
power supply, with built-in signal transmitter for 230 V,			
	1-phase mains connection 1586		
<u> </u>	.00.011	1000111	
9V battery for mains-independent a	larm	1952215	
		1902210	
O Float valve switch	MB,		
mercury-free,			
MIN or MAX function with integrated	1,		
counterweight			
Cable lenght	6 m	1465706	
Cable length	10 m	1465710	
O Pump control syste	ems		
and switching gear fo			
mobile and permanen			
usage, level recording			
and monitoring device		A accessories	



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