

Submersible motor pumps
with jacket cooling
for abrasive drainage water.

HBP503 - HBP555

Application

Pump for conveying clean or soiled water, also containing abrasive sand or sludge. Application areas include cellar draining, water table drawdown, drainage of construction sites or shafts, supply of industrial water, 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.

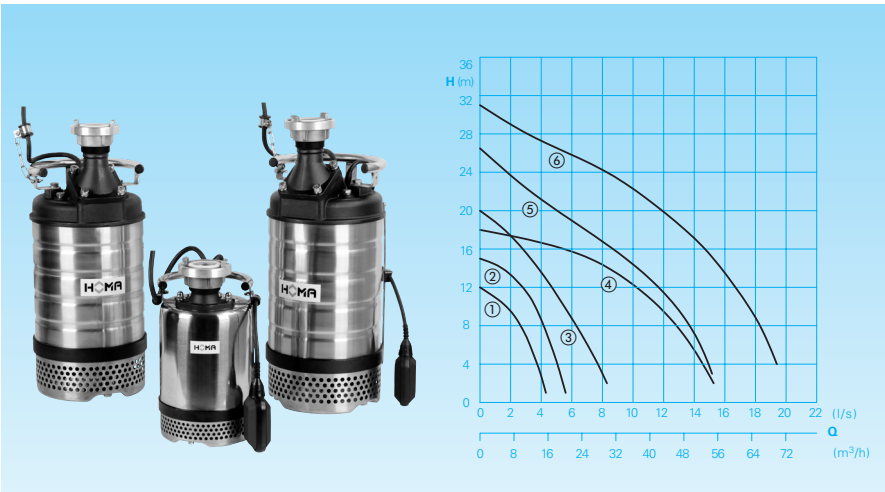
Pumped medium: Clear- and drain-age water with abrasive sand or mud additives, Max. temperature of pumped medium: 40°C

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:
HBP503-507: H07RN8-F4G1
HBP512: H07RN8-F4G1,5
HBP522-555: H07RN8-F4G2,5
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 ₁ (kW)	P ₂ (kW)	Nominal current (A)	Free passage	Discharge	Weight (kg)
①	HBP503 W(A)	0,67	0,40	3,0	6	G2	16,0
②	HBP507 WA	1,1	0,75	5,0	6	G2	18,0
③	HBP512 WA	2,1	1,5	10,0	8	G2	36,0
③	HBP512 D	2,0	1,5	3,5	8	G2	37,0
③	HBP512 DA	2,0	1,5	3,5	8	G2	39,0
④	HBP522 D(A)	3,0	2,2	5,3	9	G3	37,5
⑤	HBP537 D(A)	4,6	3,7	7,7	9	G3	60,5
⑥	HBP555 D(A)	6,7	5,5	11,4	9	G3	67,0

Rotational speed: 2850 rpm
Discharge: G2- G3

Model W: 230V/1Ph 50Hz
Model D: 400V/3Ph 50Hz
Model A: with automatic float switch
HOMA-Nivomatik

Materials

Motor housing	Stainless steel
Motor shaft	Stainless steel
Screws	Stainless steel
Impeller	Hard cast iron
Pump housing, HBP503-507	Cast iron GJL
HBP512-555	Cast iron GJS
Outer casing	Stainless steel
Shaft seal HBP503-512	Shaft sealing ring NBR + double action meachanical seal ceramic/coal/SIC
Elastomers	NBR

Scope of supply

Pump with 10 m (HBP503-512) or 20 m (HBP522-555) of connecting cable and STORZ-fixed coupling

Model WA (230 V/1 Ph):
With automatic float switch HOMA-Nivomatik, HOMA switchgear WA1, motor protection, AUTO-Manual switch, mains plug

Model DA (400 V/3 Ph):
With automatic float switch HOMA-Nivomatik, HOMA switchgear D(A20)/32, motorprotection, ON-OFF switch, 16A CEE-reversing plug

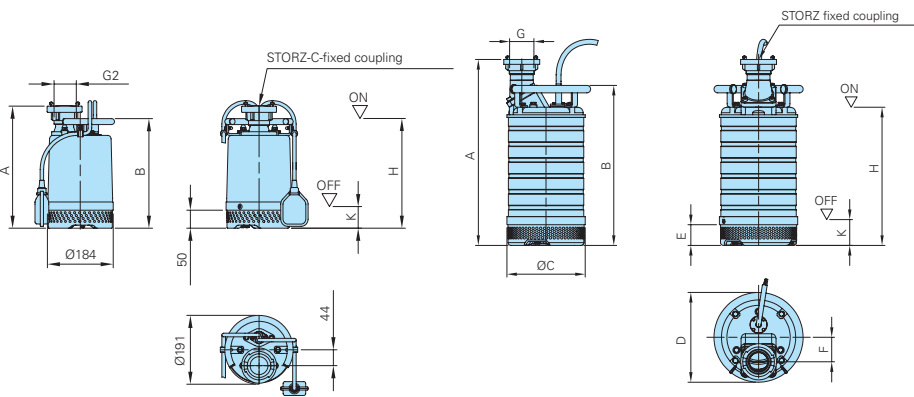
Model D (400 V/3 Ph):
With HOMA switchgear D32, motor protection, ON-OFF switch, 16A CEE-reversing plug

Dimensions and installation example (all dimensions in mm)

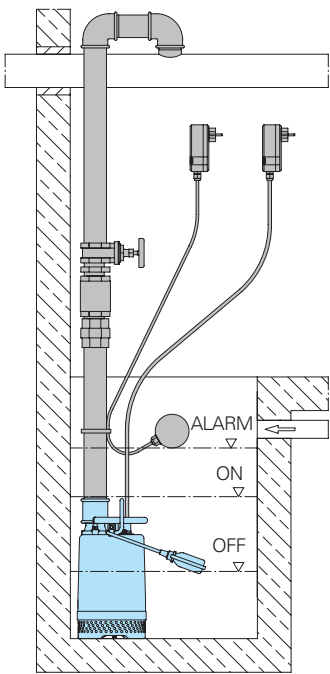
HBP503, 507 WA

HBP512, 522, 537, 555

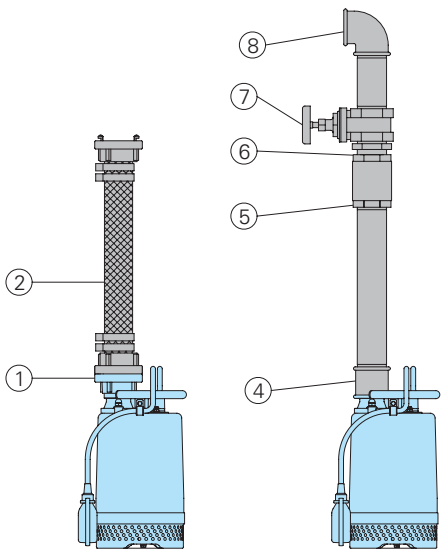
Shaft installation with pipe work, level control and switchgear



Type	A	B	C	D	E	F	G	H	K	Coupling
HBP503 WA	339	305	-	-	-	-	-	280	60	-
HBP507 WA	359	325	-	-	-	-	-	305	85	-
HBP512 WA	583	501	238	244	87	75	G2	310-450	90-230	STORZ-C
HBP512 D	563	481	238	244	87	75	G2	-	-	STORZ-C
HBP512 DA	613	531	238	244	87	75	G2	310-480	90-260	STORZ-C
HBP522 D(A)	551	481	238	267	87	84	G3	-	-	STORZ-B
HBP537 D(A)	606	516	274	312	72	85	G3	-	-	STORZ-B
HBP555 D(A)	646	556	274	312	72	85	G3	-	-	STORZ-B



Accessories



Description	Size	Part no.	Description	Size	Part no.
① STORZ-fixed coupling		in scope of supply	○ Fault-current circuit breaker 2-pin, Fi 16/0.03 A		1561160
Plastic spiral hose, per m	50 mm Ø	2632050	○ 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	C-52 mm	2013003	Battery 9V for mains-independent alarm		1952215
	B-75 mm	2013502	○ For pump controllers and switchgears for mobile and stationary applications, measuring systems and monitoring devices, see HOMA accessories		
② Synthetic-pressure-hose, with rubber lining, completely with C-couplings	10 m long	2611310			
	15 m long	2611315			
	20 m long	2611320			
	30 m long	2611330			
Synthetic-pressure hose, with rubber lining, completely with B-couplings	10 m long	2611210			
	15 m long	2611215			
	20 m long	2611220			
	30 m long	2611230			
Hose clamp	2"	2306009			
④ Transitional screw, mounting, galvanized	BSP 2" M/F	2114311			
⑤ Non-return valve, brass	BSP 2" F	2211413			
	R 3	2211613			
⑥ Double nipple, galvanized	BSP 2" M	2009018			
	R 3	2128030			
⑦ Shut-off gate valve, brass	BSP 1½" F	2216015			
	BSP 2" F	2216020			
	R 3" RG	2216030			
⑧ 90° Bend, galvanized	BSP 2" F	2113606			
	R 3" F	2111810			
T-piece for merging the pressure pipe in double pump stations	BSP 2" F	2114306			

We reserve the right to alter our specifications without notice!

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