

Submersible motor pumps für chemically polluted drainage water. Free passage 10 mm.

CH413

Application

Pumps for conveying drainage water which is polluted with alkaline or acid chemicals. With the advantage of thick wall casting and viton seals, they are the ideal solution to pump mediums with pH-value between 5-14. They are suitable for laundries, car washes, food industries and many other applications. DIN EN 12050-2: Design tested and monitored.

Installation: Stationary or mobile.

Pumped medium: Clear- or domestic drainage water, pH-value 5 – 14.

Max. temperature of pumped medium: 40°C, for brief periods up to 60°C.

Operating mode: Motor submerged:

Continuous operation (S1). Motor not submerged or medium temperature 41-60 °C:

Intermittent operation (S3 30%)

Design

Fully submersible pump, consisting of: Pump: Single-stage with horizontal discharge.

Impeller: Open multi-blade impeller, free passage 10 mm.

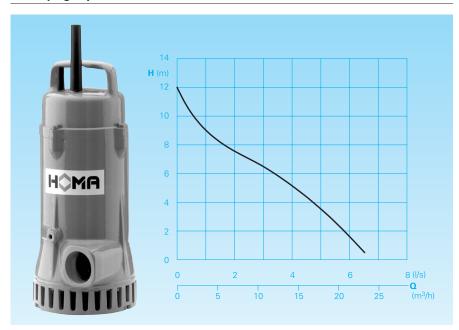
Motor: Fully submersible motor, sealed against pressurized water, oil-filled. Insulation class H. Protection rating IP 68. Singe phase version with thermal sensor in the winding for temperature monitoring. Electrical compartment is separate from motor.

Connecting cable W: H07RN8-F 4G1,5 Connecting cable D: H07RN-F 4G1,5 with protection hose (polyolefine).

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

Seal: Combination of mechanical seal and radial seal that is independent of the direction of rotation.

Conveying capacities



Pump type	Motor input P ₁ P ₂ (kW) (kW)	Voltage 50 Hz (V)	Nominal current (A)	Weight (kg)
CH413 W(L)	1,1 0,7	230/1Ph	4,7	20,0
CH413 D(L)	1,2 0,8	400/3Ph	2,2	20,0

Rotational speed: 2900 rpm Discharge: BSP1 1/2 **Model L:** without switchgear, with loose cable end.

Materials

Pump housing, impeller, motor housing	Cast iron EN-GJL-250
Motor shaft	Stainless steel
Mechanical seal	Sic/Sic
Elastomers	Viton
Mechanical connection parts	Stainless steel

Scope of supply

Pump with 10 m of connecting cable Model W (230V/1Ph):

With switchgear W1, motor protection, ON-OFF-switch and mains plug.

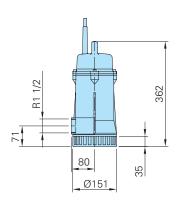
Model D (400V/3Ph):

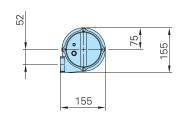
With switchgear D32, motor protection, ON-OFF-switch and CEE reversing plug.

Model L:

With loose cable end. Possible switchgears available as accessories. The capacitor required for operation is installed in the pump.

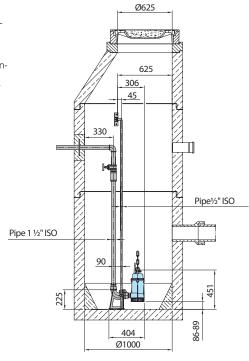
CH413



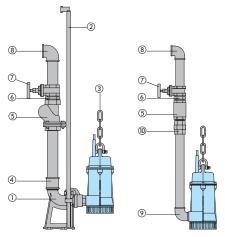


Shaft installation with automatic coupling

The pump is simply pulled up on the solid two-pipe guide for maintenance or replacement without walking through the shaft. When it is lowered again, it automatically couples to the pressure line. This installation is possible for single and multi-pump etations. Adventages for single and multi-pump etations. gle and multi-pump stations. Advantages: low space requirement, particularly service-friendly and economical.



Accessories



Description	Size	Part no.		
① Automatic coupling system GG with mating flange, base elbow with thre and slide rail bracket KK50/BSP11/2"	ad BSP2"/BSP1½"	8604000		
	D31 Z /D31 172	0004000		
OCoupling system completely or partly		on		
in stainless steel	all	request		
OScrew-Kits				
for fastening		on		
coupling systems		request		
○ Intermediate bracket for slide rail bracket extension Ø ½" for KK50 7320271				
	101 1010	7320271		

Description	Size	Part no.
② Guide rails,		
in pairs, per m		
Galvanized steel	Ø 1/2"	2190085
Stainless steel	Ø 1/2"	2190250
3 Pump chain sets, test With shackle, single or crow, different lengths	dual	
and load bearing capacit		on request
① Double socket, galvanized	BSP 2" F BSP 2" F x BSP 1 ½" F	2109102 2102210
⑤ Non-return	BSP 1 1/2" F	2212902
ball valve GG	BSP 2" F	2212903
6 Double nipple,	BSP 1 1/2" M	2009020
galvanized	BSP 2" M	2009018
Shut-off gate		
valve, MS	BSP 1 1/2" F	2216015
	BSP 2" F	2216020
890° bend,		
galvanized	BSP 1 1/2" F	2113605
	BSP 2" F	2113606
T-piece for merging		
the pressure pipe in	BSP 1 1/2" F	2114302
double pump stations	BSP 2" F	2114306
990° bend,		
galvanized	BSP 1 1/2" F/N	1 2111505
J	BSP 2" F/M	2111506
10 Transitional screw		
mounting, galvanized	BSP 11/2" M/F	2114305
OSTA-hose-		
screw mounting,		
brass	BSP 1 1/2" M	2001513
STORZ-fixed coupling	C-G 1 ½" M	2010003
510112-11xeu coupillig	0°U 1 72 IVI	2010003

Description	Size	Part no.
OPVC-hose, per m	1 ½" Ø 38 mm	2621500
Plastic spiral hose, per m	Ø 50 mm	2632050
STORZ hose coupling	C-38 Ø C-52 Ø	2013002 2013003
Hose clamp	1 ½" 2"	2304854 2306009
Synthetic pressure hose, with rubber lining, complete with C-couplings C-52 mm Ø	10 m 15 m 20 m 30 m	2611310 2611315 2611320 2611330

O For pump controllers and switchgears for mobile and stationary applications, measuring systems and monitoring devices, see see HOMA accessories