

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.

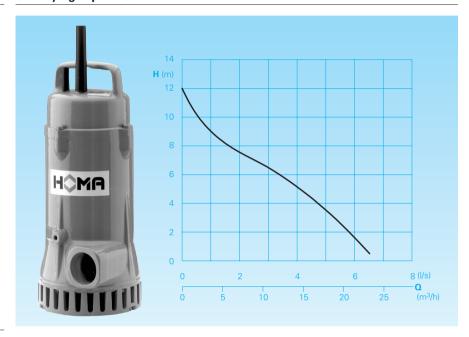
Motor: Fully submersible motor, sealed against pressurized water, oil-filled. Insulation class H. Protection rating IP 68. Singe phase version with thermal sensor in the winding for temperature monitoring. Electrical compartment is separate from motor.

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 <sub>1</sub> P <sub>2</sub> (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

#### **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):

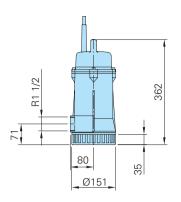
With switchgear D32, motor protection, ON-OFF-switch and CEE reversing plug.

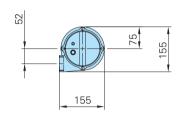
### Model L:

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

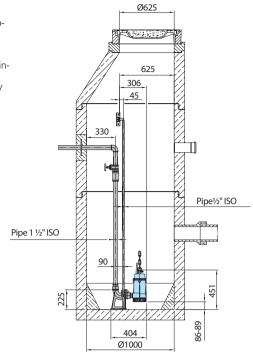




# Shaft installation with automatic coupling

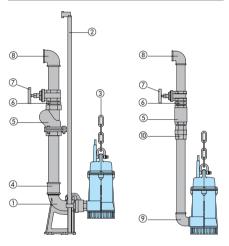
system.

The pump is simply pulled up on the solid twopipe 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 stations. Advantages: low
space requirement, particularly service-friendly
and economical and economical.



#### Accessories

Description



① Automatic coupling system GG with mating flange, base elbow with thre and slide rail bracket	ad		
KK50/BSP11/2"	BSP2"/BSP11/2"	8604000	
Ocoupling system completely or partly in stainless steel	all	on	
	all	request	
○ Screw-Kits     for fastening		on	
coupling systems		request	
O Intermediate bracket for slide rail bracket extension Ø ½" for KK50 7320271			

Size

Part no.

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, tes With shackle, single or row, different lengths		
and load bearing capacities		on request
4 Double socket,	BSP 2" F	2109102
galvanized	BSP 2" F x	2102210
g <u></u> .	BSP 1 1/2" F	
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
valve, MS	BSP 1 1/2" F	2216015
	BSP 2" F	2216020
® 90° 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,	DOD 4441 E#	
galvanized	BSP 1 1/2" F/N	
	BSP 2" F/M	2111506
10 Transitional screw	DOD 44/	
mounting, galvanized	BSP 1 1/2" M/I	- 2114305
OSTA-hose-		
screw mounting,	DOD 4 1/5 * 4	0004510
brass	BSP 1 1/2" M	2001513
STORZ-fixed coupling	C-G 1 1/2" M	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

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



We reserve the right to alter our specifications without notice!

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