

Submersible drainage pumps for chemically polluted drainage water. Spherical clearance 10 mm.

CH 413

Application

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: Conformity and type-tested and monitored by the LGA. Installation: Stationary or mobile. Conveying medium: Clear water and domestic waste water, pH-value 5-14. Max. temperature of conveying medium: 40°C, briefly up to 60°C.

Pumps used for pumping drainage

Operating mode: Motor submerged: continuous operation (S1). Motor not submerged or medium temperature 41 to 60 °C: Intermittent operation (S3

30%)

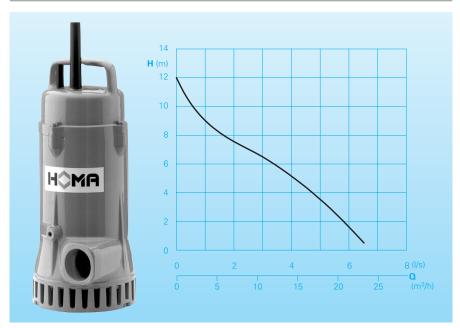
Construction

Fully submersible pump, consisting of: Pump: Single stage centrifugal pump with horizontal discharge. Impeller: Open multi-channel impeller, spherical clearance 10 mm. Motor: Fully submersible, pressure tight electric motor, oil filled. Insulation class H. Degree of protection IP 68. Alternating current version with thermal sensor in the winding for temperature monitoring. Electrical compartment is separate from motor. Connection cable W: H07RN-F 3G1 Connection cable D: H07RN-F 4G1,5 with protection hose (polyolefine). Shaft/Bearing: Generously-proportioned chromium steel motor shaft, permanently-lubricated roller bearing. Seal: Combination of mechanical seal

and radial seal that is independent of

the direction of rotation.

Performances



Technical Data

Pump type	Motor power P ₁ P ₂ (kW) (kW)	Voltage 50 Hz (V)	Nominal current (A)	Weight (kg)
CH 413 W(L)	1,1 0,7	230/1Ph	4,7	20,0
CH 413 D(L)	1,2 0,8	400/3Ph	2,2	20,0

Speed: 2900 rpm

Pressure connection: R 1½ F

Type L: without switching device and loose cable end

Materials

Pump housing, impeller, motor housing	Cast iron EN-GJL-250
Rotor shaft	Stainless steel
Mechanical seal	Silicon-carbide
Elastomere	Viton
Mechanical connecion parts	Stainless steel

Scope of supply

Pump with 10 m of connection cable. Type W (230 V/1 Ph):

With control unit W1 with motor protection, ON/OFF switch and mains plug.

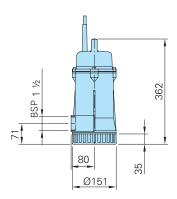
Type D (400 V/3Ph):

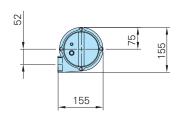
Control unit D32 with motor protection, ON/OFF switch and direction reversal plug.

Type L:

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

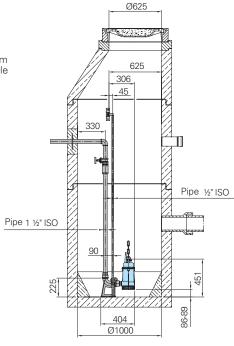
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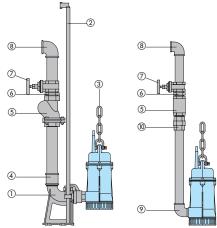


Permanent sump installation with auto-coupling system.

Permanent installation utilising a submerged auto-coupling guide rail system for automatic connection and disconnection of the pump from the pipework from outside the sump. Applicable for single or multi pump stations. Advantages: Little space requirement, easy pump service and maintenance.



Accessories



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Part Description	Dimension	Part No.
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①Auto-coupling system consisting of auto coupling with flange, flange pump coupling and upper slide rail bracket

BSP2"/BSP11/2" 8604000 - KK50/R11/2

OAuto-coupling system complete or partial in

stainless steel all types on request

OScrew-kits for installation of coupling system

OSupporting bracket Ø 1/2

for KKC50 for guide rail extension

Part Description	Dimension	Part No.
②Guide rails, pair, per m steel galvanized stainless steel	1/2" dia. 1/2" dia.	2190085 2190250
③ Pump chain sets, testet. With shackle, One- or Two-strand, different lengths and load capacities	0	n request
(4) Galvanized double socket	BSP 2" F BSP 2" Fx BSP 1 1/2" F	2109102 2102210
⑤Cast iron swing check valve	BSP 1 ½" F BSP 2" F	2212902 2212903
Galvanized double nipple	BSP 1 1/2" M BSP 2" M	2009020 2009018
⑦Bronze gate valve	BSP 1 1/2" F BSP 2" F	2216015 2216020
890° galvanized elbow	BSP 1 1/2" F BSP 2" F	2113605 2113606
T-piece for twin pump arrangement	BSP 1 1/2" F BSP 2" F	2114302 2114306
990° galvanized elbow	BSP 11/2"F/M BSP 2"F/M	2111505 2111506
(10) Galvanized pipe union	BSP 1 1/2"F/M	2114305
OBrass STA hose	BSP 1 1/2" M	2001513

C-BSP 11/2"M 2010003

Part Description	Type	Part No.
OPVC-hose, per m	1 1/2"	2621500
Reinforced hose, per m	50 mm dia.	2632050
STORZ-hose coupling with spigot	C-38 dia. C-52 dia.	2013002 2013003
Hose bands	1 ¹ /2" 2"	2304854 2306009
Synthetic pressure hose with rubber lining and couplings, C-52 dia.	15 m	2611310 2611315 2611320 2611330

OPump control systems and switching gear for mobile and permanent usage, level recording and monitoring devices See HOMA accessories



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on request

7320271

coupling

STORZ-fixed coupling