

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

CH 406, CH 412

Application

HOMA CH 406 and CH 412 are submersible drainage pumps. They are used for pumping 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: Conformity and design approved and controlled by LGA, certificate No. 0220119.

Installation: Transportable or permanent. Models with float switch control for automatic pump operation, depending on medium level in the sump.

Pumped medium: Clear water and drainage water, pH-value 5-14. Max. medium temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

Fully submersible, compact integrated motor-pump unit consisting of:

<u>Pump:</u> Single stage centrifugal pump with horizontal discharge BSP 1¹/₄" F.

Impeller: Open multi-channel impeller, spherical clearance 10 mm.

Motor: Fully submersible, pressure tight electric motor, oil filled. Insulation class B. Degree of protection IP 68. Shaft/Bearing: Large diameter stainless steel rotor shaft, pre-lubricated bearings.

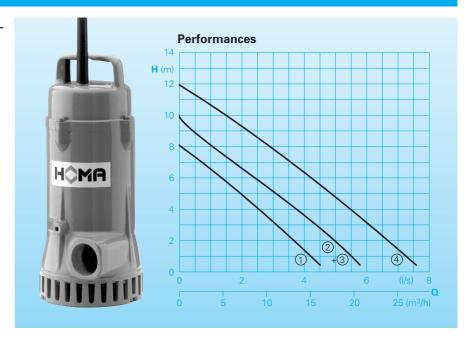
Cable: NSSHöu-J 4x1,5

<u>Shaft/Bearing</u>: Large diameter stainless steel rotor shaft, pre-lubricated bearings.

<u>Seals:</u> Combination of mechanical seal (silicon-carbide) and lip-seal (viton).

Materials:

TVIGLOTIGIS.	
Suction sieve, suction cover impeller, motor bearing housing, motor housing,	·,
motor housing cover	Cast iron GG 25
Rotor shaft, screws	Stainless steel
Mechanical seal	Silicon-carbide
Seal kit	Viton
Cable	Chloroprene- indian rubber



Technical Data

Curve No.	Pump type	Motor- input P ₁ (kW)	Motor- output P ₂ (kW)	Voltage 50 Hz (V)	Speed (rpm)	Nominal current (A)	Weight (kg)
1	CH 406 W(A)	0,65	0,45	230/1Ph	2900	4,0	18
2	CH 406 D(A)	0,65	0,5	400/3Ph	2900	1,2	18
3	CH 412 W(A)	0,85	0,6	230/1Ph	2900	5,5	20
4	CH 412 D(A)	1,1	0,9	400/3Ph	2900	2,4	20

<u>Discharge:</u> BSP 1 ½" F Other voltages are available upon request

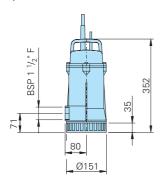
Model A: With automatic level control HOMA-Nivomatik

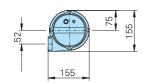
Equipment supplied

Model W (230-240 V/1 Ph): Control box fitted with overload protection, on-off switch and 10 m of cable

Model D (400-415 V/3 Ph): Control box fitted with overload protection, on-off switch and 10 m of cable Model A: With additional automatic level control Homa-Nivomatik, manualauto switch and 5 m of cable. For automatic operation with acid resistant float switches a special control box is needable (see accessories). Therefore the pumps are available without the standard control box.

CH 406, CH 412



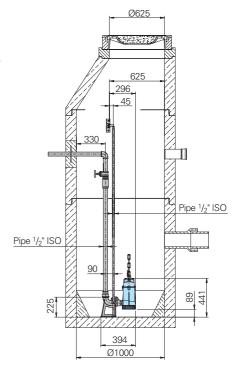


Wet well installation with auto-coupling system.

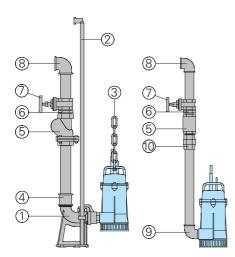
Permanent installation utilising a submerged auto-coupling guide rail system for automatic connection and disconnection of the pump from the pipework from outside the sump. Applicable for single or multi pump stations.

Advantages: Little space requirement, easy

pump service and maintenance.



Accessories



Part Description	Dimension	Part No.
① Auto-coupling syste type KK 50/R 1 ¹ / ₂ " with:	m	8604000
 Cast iron autocoupling with flange and thread Cast iron flanged pump coupling Cast iron upper slide rail bracket 	DN 50 BSP 1 ½"F BSP 1 ½" M BSP ½"	
2 Steel galvanized	1/2"	2190085

Part Description	Dimension	Part No.
③ Steel galvanized lifting chain	5 mm dia.	2800350
Steel galvanized shackle	Size. 1	2801380
Galvanized double socket	BSP 2" F BSP 2" Fx BSP 1 1/2" F	2109102 2102210
⑤ Cast iron swing check valve	BSP 1 ½" F BSP 2" F	2212902 2212903
6 Galvanized double nipple	BSP 1 ½" M BSP 2" M	2009020 2009018
Bronze gate valve	BSP 1 ½" F BSP 2" F	2216015 2216020
8 90° 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/N	12114305
Brass STA hose coupling	BSP 1 1/2" M	2001513
STORZ-fixed coupling	C-BSP 11/2"N	12010003
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 ½" 2"	2304854 2306009
Synthetic pressure hose with rubber lining and couplings, C-52 dia.	10 m 15 m 20 m 30 m	2611310 2611315 2611320 2611330

matic operation (replace the standard control box with overload protection	(),	
manual-off-auto switch		
without floatswitch (see below) for types:		
- CH 406 W	WZ 19-04	1924130
- CH 412 W	WZ 19-06	1924135
- CH 406 D	DZ 12-R02D	R 1924100
- CH 412 D	DZ 12-R03D	R 1924105
O Floatswitch for level device type WZ/DZ (respectively 2 floatswit	ches)	
 standard model length 10 m 	MB	1465710
 oil resistant model length 10 m 	ВО	1466545
 acid resistant model length 10 m 	BS	1466548
Counterweight for floatswitch		
		1466600
(2 for each floatswitch)		7321405
(2 for each floatswitch) Sloatswitch bracket		

Type

Part No.

Part Description



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