

Jacket cooled submersible drainage pumps for chemical aggressive mediums

Chromatic® CH 291

Application

For irrigation and drainage in chemical aggressive drainage water. Pumping water from sumps, pits and rooms. Drainage disposal in industrial and commercial applications, flood relief.

The water jacket cooled motor with the top discharge protects the motor against overheating even during sip operation.

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

Pumped medium: Clear water or drainage water containing soft solids, pH-value 5 – 12. Max. medium temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

Fully submersible drainage pump consisting of:

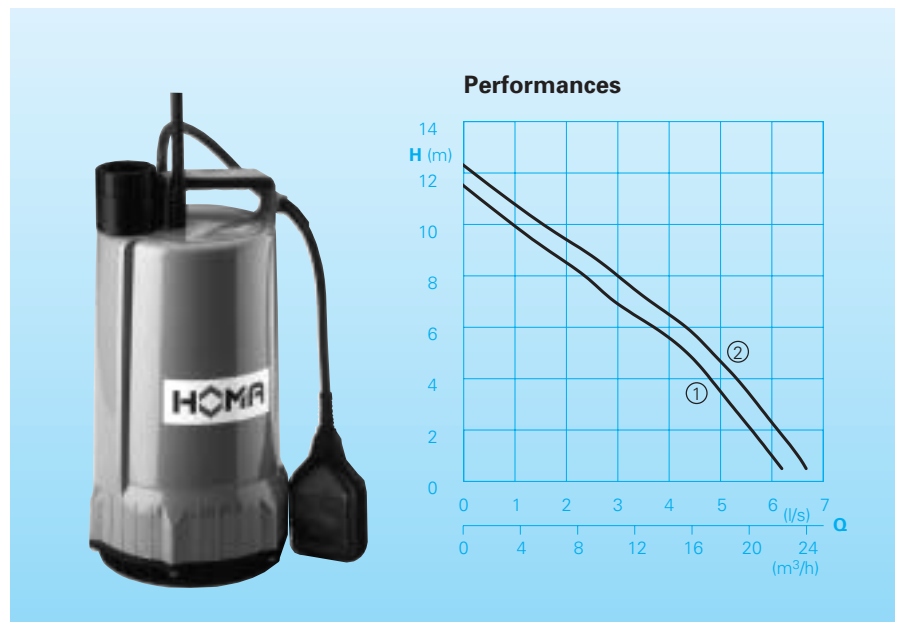
Pump: Single stage centrifugal pump with vertical discharge BSP 1 1/4". Discharge connection with integrated non-return valve.

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

Motor: Fully submersible, pressure tight electric motor. Stainless steel motor housing. Insulation class F. Motor protection IP 68. 1 ph-models with thermal sensors imbedded in the motor winding. Cable type: H07BQ-F4G1.

Shaft/bearing: Large diameter stainless steel rotor shaft, pre-lubricated bearings.

Seals: mechanical seal.



Technical Data

Curve No.	Pump type	Motor-input P1 (kW)	Motor-output P2 (kW)	Voltage 50 Hz (V)	Nominal current (A)	Cable type	Weight (kg)
①	CH 291 W (A)	1,2	0,91	230/ 1ph	5,0	H07BQ-F4G1	8,3
②	CH 291 D (A)	1,1	0,86	400/ 3ph	2,0	H07BQ-F4G1	8,3

Speed: 2900 rpm

Discharge: BSP 1 1/4"

Model A: With automatic level control HOMA-Nivomatik

Materials:

Motor housing, motor shaft, screws	Stainless steel
Suction sieve,	Polypropylene
Pump housing	Synthetic material (composite)
Impeller pressure-cover	Glass-fibre, PBTP-reinforced synthetic material (composite)
Mechanical seal	Siliciumcarbide/ Viton
Elastomere	Viton
Cable	Polyurethane

Equipment supplied

Pump with discharge connection BSP 1 1/4" F with integrated non-return valve.

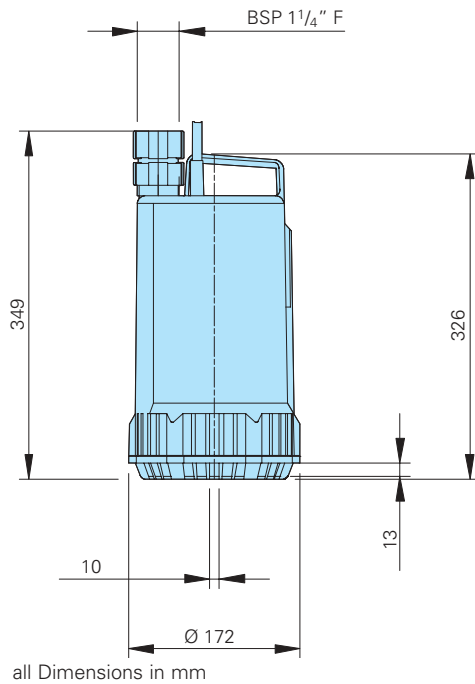
Model W: 10 m of cable, control box with overload protection, on-off-switch and plug.

Model D: 10 m of cable, control box with overload protection, on-off-switch and plug.

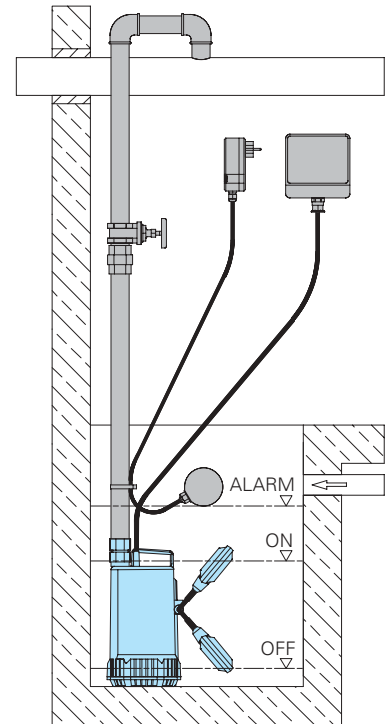
Model A: With automatic level control HOMA-Nivomatik, 10 m of cable, control box with overload protection, hand-auto-switch and plug.

Dimensions and Installations

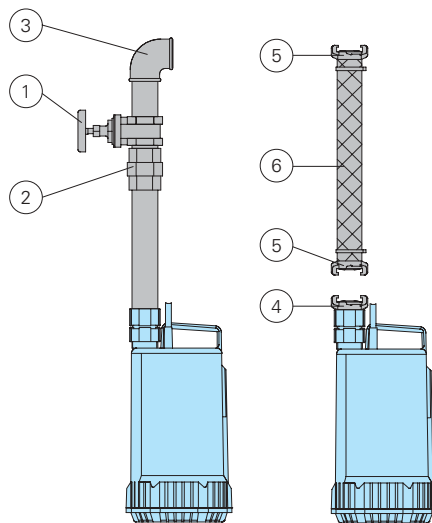
CH 291



Wet well installation with pipework, level control and control box



Accessories



Part Description	Dimension	Part. No.
① Bronze gate valve	BSP 1 1/4" F	2216012
② Galvanized pipe union	BSP 1 1/4" M/F	2114304
③ 90° galvanized elbow	BSP 1 1/4" F BSP 1 1/4" F/M	2113604 2111405
T-piece for twin pump arrangement	BSP 1 1/4" F	2114301
○ Bronze non-return valve (if integrated non-return valve is not fitted)	BSP 1 1/4" F	2211213
○ Galvanized double nipple	BSP 1 1/4" M	2009011
④ Brass fixed coupling	BSP 1 1/4" M	2005413
⑤ Brass hose coupling	BSP 1" BSP 1 1/4"	2003313 2003413
⑥ PVC hose, per m	1" Ø 1 1/4" Ø	2621000 2621200
Reinforced hose, per m	1" Ø 1 1/4" Ø	2632025 2632030
Hose band	3/4" - 1" 1 1/4"	2302330 2303252
○ Non-return valve, gate valve, fittings made of steady for automatic operation		On request

Part Description	Dimension	Part. No.
○ HOMA-Nivomatik float switch level control, conversion unit		
- for 220-240 V/1ph		
AZW 10/5	length 5 m	1435055
AZW 10/10	length 10 m	1430105
- for 380-415 V/3ph		
AZD 10/5	length 5 m	1912452
AZD 10/10	length 10 m	1914452
○ HOMA 2 poles earth leakage circuit breaker Fi 16/0,03 A		1561160
○ Alarm device AL 1 Mains-operated with connector for battery 9V (see below) for mains independent operation with integrated buzzer. Mains connection 220-240 V/ 1 ph		1586010
Battery for mains-independent operation	9 V	1952209
Float switch MB, mercury free, on or off, with integrated counter weight. Cable length	6 m 10 m	1465706 1465710
○ Control panel for single or twin pump station for automatic operation		On request

HOMA
P U M P T E C H N O L O G Y

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