

Jacket cooled stainless steel submersible drainage pump for clear and drainage water

CR 253

Application

For irrigation and drainage in clear or drainage water. Cellar drainage, pumping water from sumps, pits and rooms. Also suitable for pumping discharge from hand basins, showers and washing machines, for flood relief and water removal from water courses or reservoirs.

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

DIN EN 12050-2: Conformity and design approved and controlled by LGA.

Installation: Permanent or transportable. Model with float switch control for automatic pump operation, depending on liquid level in the sump. Guided float switch, adjustable switch level.

Pumped liquid: Clear water or drainage water containing soft solids up to 10 mm spherical clearance.

Max. liquid temperature: 35°C, short term up to 60°C.

Operation: Intermittent.

Design

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

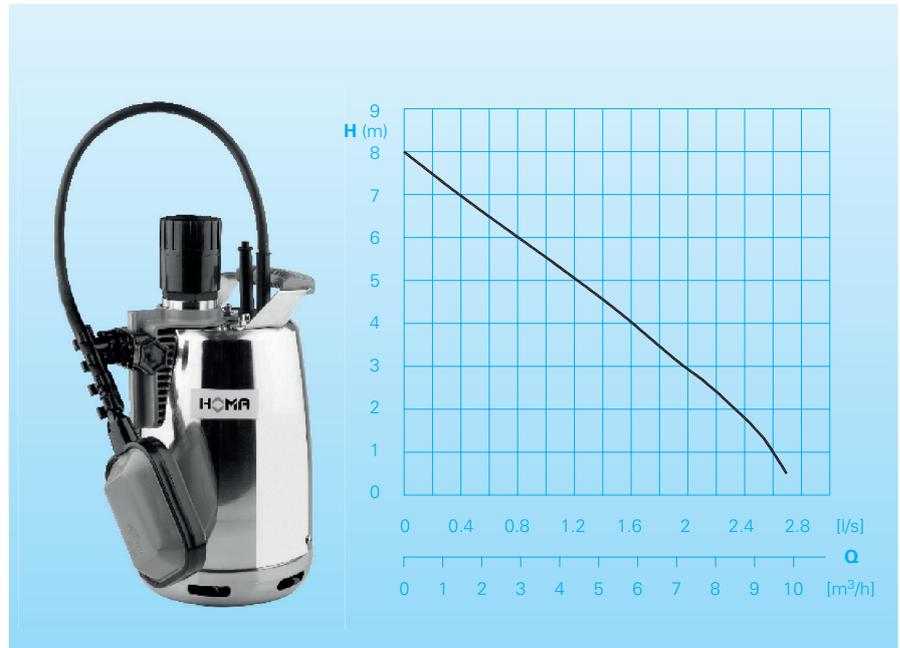
Pump: Single stage stainless steel centrifugal pump with cooling jacket and vertical discharge G 1¼ F. Discharge connection with integrated non-return valve.

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

Motor: Fully submersible, pressure tight electric motor. Stainless steel motor and pump housing. Insulation class F. Motor protection IPX 8. Thermal sensors imbedded in the motor winding. Rotor shaft from stainless steel with ceramic coated sealing surface, pre-lubricated bearings.

Seals: Triple lip-seal

Performance



Technical Data

Pump type	Motor input P ₁ (kW)	P ₂ (kW)	Voltage 50 Hz (V)	Nominal current (A)	Cable type	Weight (kg)
CR 253 W(A)	0,53	0,34	230/1 Ph	2,1	H07RN-F3G0,75	5,0

Speed: 2900 rpm

Discharge: G 1¼ F

Model A: With automatic level control
HOMA-Nivomatik

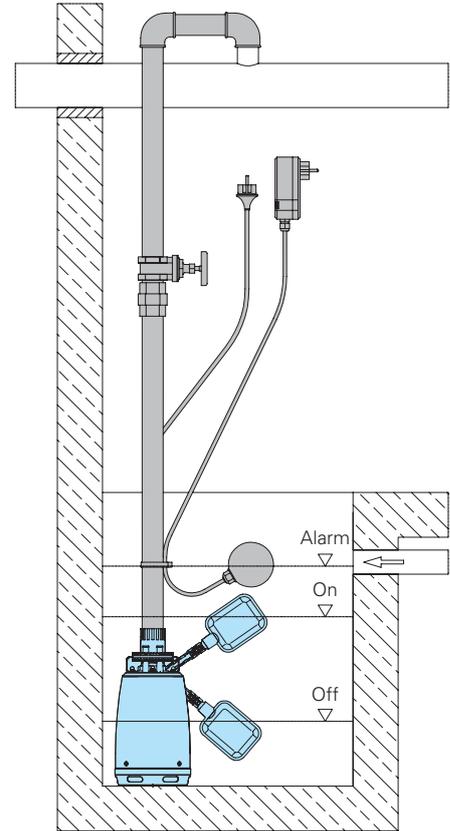
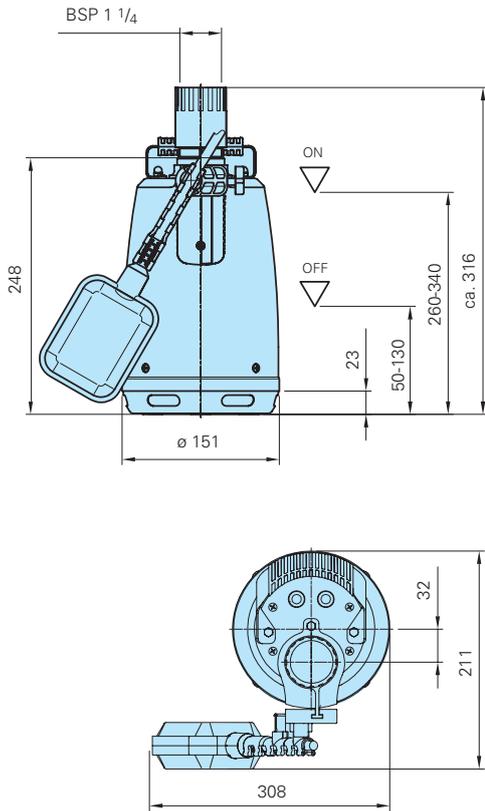
Materials

Motor housing, Pump housing, screws, suction sieve	Stainless steel
Rotor shaft	Stainless steel partially ceramic coated
Impeller	Composite
Seal kit	NBR

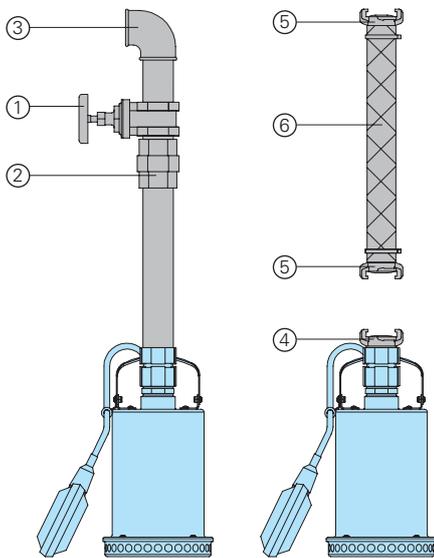
Equipment supplied

10 m of cable and plug. Non-return valve. Hose connection.

Dimensions and installations (all dimensions in mm)



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 25 mm 1 1/4" Ø 30 mm	2621000 2621200
Reinforced hose, per m	1" Ø 25 mm 1 1/4" Ø 32 mm	2632025 2632030
Hose band	3/4" - 1" 1 1/4"	2302330 2303252

Part Description	Dimension	Part. No.
○ HOMA-Nivomatik float switch level control, conversion unit - for 230 V/ 1 Ph AZW 10/5	5 m of cable	1435055
AZW 10/10	10 m of cable	1435105
○ HOMA 2 poles earth leakage circuit breaker Fi 16/0,03 A		1561160
○ Alarm device AL 3 Mains operated with connector for battery 9V (see below) for mains independent operation with integrated buzzer. Mains connection 230-240 V/ 1 Ph		1586140
Battery for mains-independent operation	9 V	1952215
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



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