

Wear resistant submersible drainage pumps for clear water and drainage water.

H 119, H 121

Application

HOMA H 119 and H 121 are wear resistant submersible drainage pumps for pumping clear water or drainage water with abrasive sand or mud additives. They are used to pump surface water from sumps, subways and building sites, supply of industrial water, application on board ships etc.

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 or drainage water containing solids up to 10 mm spherical clearance. Max. medium temperature: 35°C, short term up to 60°C.

Design

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

Pump: Single stage centrifugal pump with horizontal discharge.

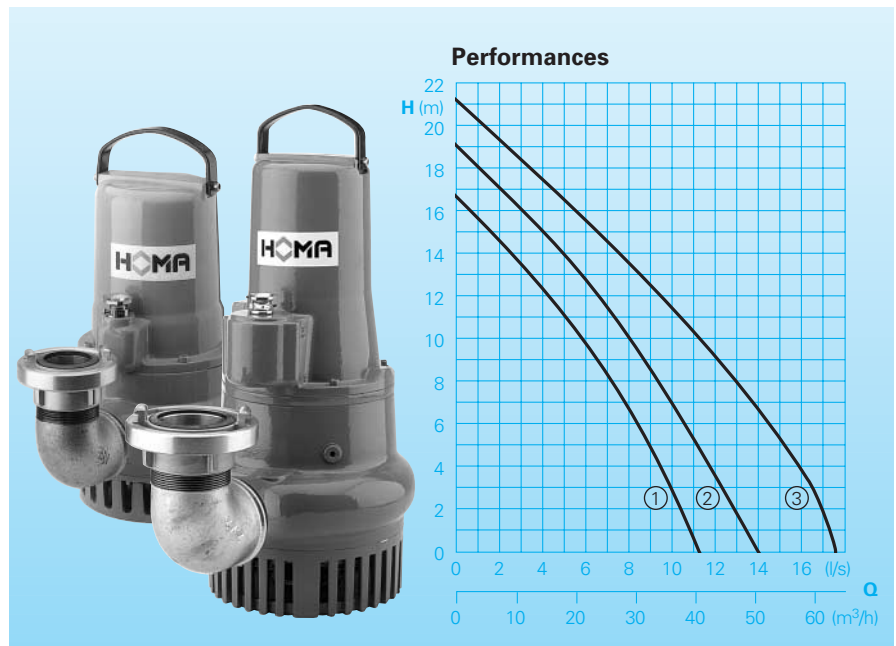
Impeller: Open multi-channel impeller, spherical clearance 10 mm. The distance between impeller and casing can be readjusted to maintain maximum performance.

Motor: Fully submersible, pressure tight electric motor, oil-filled. Insulation class F. Motor protection IP 68. All 1 phase models with thermal sensors embedded in motor winding.

Cable: H07RN-F4G 1,5
Model Ex: H07RN-F(Plus)7G1,5

Shaft/Bearing: Large diameter stainless steel rotor shaft, prelubricated bearings, models H 121 lower bearing double-row type.

Seals: Combination of mechanical seals in a separate oil chamber. Oil check from outside. H 119 with 1 mechanical seal and 1 lip-seal. H 121 with 2 mechanical seals.



Technical Data

Curve No.	Pump type	Motor-input P ₁ (kW)	Motor-output P ₂ (kW)	Voltage 50 Hz (V)	Nominal current (A)	Discharge	Weight (kg)
①	H 119 W G (A) (Ex)	1,6	1,2	230-240/1Ph	7,8	BSP2" M	26
②	H 119 D G (A) (Ex)	1,6	1,2	400-415/3Ph	2,9	BSP2" M	26
③	H 121 D (A) (Ex)	2,7	2,3	400-415/3Ph	4,5	BSP2 1/2" M	40

Speed: 2900 rpm

Cable length: 15 m

Other voltages are available upon request

Model A: With automatic level control HOMA-Nivomatik

Model Ex: Explosion proof

Explosion protection: All models are available with explosion proof motors according to II 2 G EEx d [ib] IIBT4.

Materials:

Motor housing, pump housing, impeller, suction cover	Cast iron GG 25
Rotor shaft, screws	Stainless steel
Mechanical seals	Silicon carbide
Seal kit	Perbonane

Equipment supplied

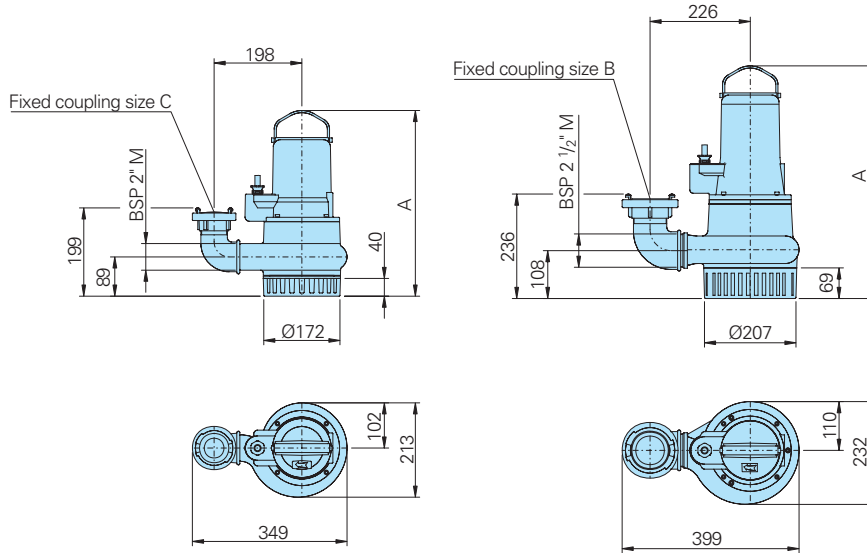
Pump with 90° elbow, STORZ-fixed coupling size C, model H 121: size B. With 15 m of cable.

Model W (230-240V/1Ph): With control box fitted with overload protection, capacitor and on-off-switch.

Model D (400-415V/3Ph): With control box fitted with overload protection, on-off-switch.

Model A: With additional automatic level control, AS float switch, manual-auto-switch.

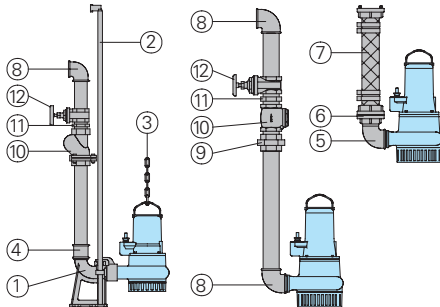
Dimensions



Pump type	Dim. A
H 119 WG	419
H 119 WG (Ex)	426
H 119 DG	419
H 119 DG (Ex)	426
H 121 D (Ex)	525

all dimensions in mm

Accessories



Part Description	Dimension	Part No.
① Auto-coupling system type KK50/R2" for H119, with:		8604005
- Cast iron auto-coupling with flange and thread	BSP 2" BSP 2" F	
- Cast iron flanged pump coupling	BSP 2" F	
- Cast iron upper slide bracket	BSP 1/2"	
type KK65/R2 1/2" for H121, with:		8604015
- Cast iron auto-coupling with flange	DN 65	
- Cast iron flanged pump coupling	BSP 2 1/2" F	
- Cast iron upper slide rail bracket	BSP 1"	
② Galvanized steel guide rails, pair, per m for KK50/R2"	1/2"	2190085
for KK65/R2 1/2"	1"	2190135
③ Galvanized steel lifting chain	5 mm dia.	2800350
Galvanized steel shackle	Size 5/16"	2801450

Part Description	Dimension	Part No.	Part Description	Dimension	Part No.
④ Galvanized double nipple	BSP 2" F	2109102	⑧ 90° galvanized elbow	BSP 2" F BSP 2 1/2" F	2113606 2113610
Threaded flange	DN 65 BSP 2 1/2" F	2215060	⑨ Galvanized pipe union	BSP 2" M/F BSP 2 1/2" M/F	2114311 2114312
⑤ 90° galvanized elbow	BSP 2" F/M BSP 2 1/2" F/M	Equipment supplied H 119 (S) Equipment supplied H 121	⑩ Bronze non-return valve	BSP 2" F BSP 2 1/2" F	2211413 2211513
⑥ STORZ-fixed coupling	C-BSP 2" F B-BSP 2 1/2" F	Equipment supplied H 119 (S) Equipment supplied H 121	⑪ Galvanized double nipple	BSP 2" M BSP 2 1/2" M	2009018 2009025
⑦ Synthetic pressure hose with rubber lining and couplings	C - 52 dia. B - 75 dia.	10 m 2611310 15 m 2611315 20 m 2611320 30 m 2611330 10 m 2611210 15 m 2611215 20 m 2611220 30 m 2611230	⑫ Bronze gate valve	BSP 2" F BSP 2 1/2" F	2216020 2216025
STORZ-hose-coupling with spigot	C - 52 dia. B - 75 dia.	2013003 2013502	○ HOMA-Nivomatik float switch level control conversion kit, - for 230-240 V/1Ph AZW 10/10	length 15 m	1435155
Reinforced hose, per m	50 mm dia. 75 mm dia.	2632050 2632075	- for 400-415 V/3Ph AZD 10/15	length 15 m	1919452
Hose band	2" 85/20	2306009 2308520	○ Alarm device AL1		1586010
STORZ-reducer	B-C A-B	2015423 2015612	Mains-operated with connector for battery 9V (see below) for mains independent operation with integrated buzzer. Mains connection 230-240 V/1Ph		
Coupling spanner	A, B, C	2016002	Battery for mains-independent operation	9V	1952209
			Floatswitch MB, mercury free, on or off, with integr. counter weight		
			Cable length	10 m 15 m	1465710 1465715
			○ HOMA 2 poles earth leakage circuit breaker		1561160
			Fi 16/0,03 A		
			○ Control panel for single or twin pump station for automatic operation		On request



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