

Submersible pumps for domestic waste water containing solids. Spherical clearance 50 mm.

TP48

Application

Series TP48 submersible pumps are used for pumping soiled and waste water as well as sludge. With their large free passage of 50 mm, they are particularly well suited for use with media containing coarse solids and fibres. Ideal for economical disposal in municipal, private, trade and industry applications.

DIN EN 12050-2: Conformity and type-tested and monitored by the LGA.

Installation: Stationary or mobile.

Version with float switch for use as automatic water level controlled drainage pump.

Conveying medium: Clear water and domestic waste water, sewage with solid and fibrous content. Max. temperature of conveying medium: 40°C, briefly up to 60°C.

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 pressure connection.

Impellers: M= Open single channel impeller for liquids containing impurities and sludge with solid particles.

V = Vortex impeller for liquids containing a high level of impurities or fibrous matter and containing gas.

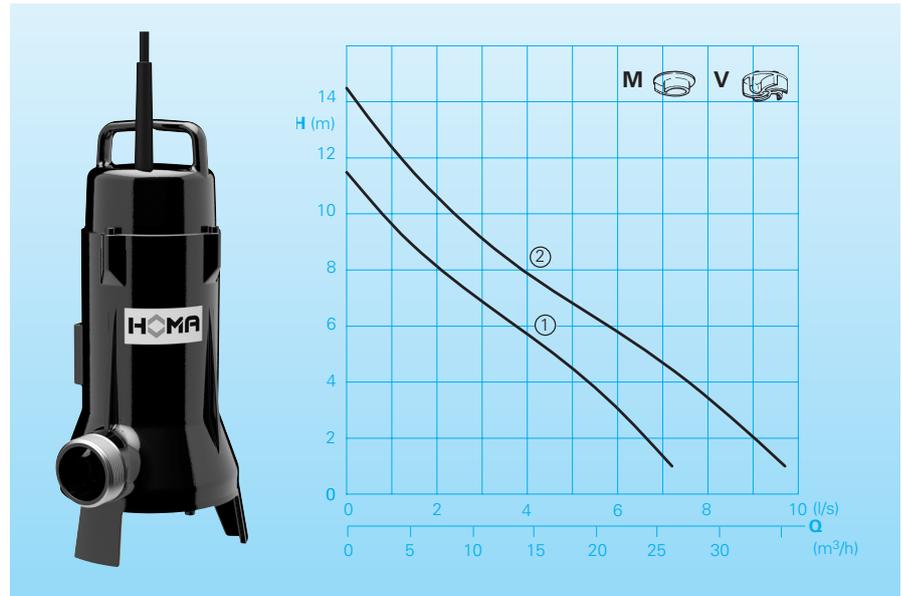
Motor: Fully immersible motor, sealed against pressurised water, oil-filled. Insulation class H, protection rating IP 68. W(A)-Models with thermal sensor embedded in the winding. Electrical compartment is separate from motor.

Connection cable: H07RN-F 4G1,5
Type WA: H07RN-F 5G1,5

Shaft/Bearing: Generously-proportioned chromium steel motor shaft, permanently-lubricated roller bearing.

Seal: Combination of mechanical seal (silicon carbide/silicon carbide) and radial seal that is independent of the direction of rotation.

Conveying capacities



Technical Data

Curve No.	Pump type	Motor		Voltage 50 Hz (V)	Nominal current (A)	Weight (kg)
		P ₁ (kW)	P ₂ (kW)			
①	TP48V 15/2 W (A)	1,5	1,1	230/1Ph	6,5	22,0
①	TP48V 15/2 DL	1,5	1,1	400/3Ph	2,5	22,0
②	TP48M 15/2 W (A)	1,5	1,1	230/1Ph	6,5	22,0
②	TP48M 15/2 DL	1,5	1,1	400/3Ph	2,5	22,0

Speed: 2900 rpm

Pressure connection: G 2 M

Type A: with automatic float switch HOMA Nivomatik

Type L: with loose cable end

Materials

Pump housing, Motor housing	Cast iron EN-GJL-250
Impeller, Rotor shaft	Stainless steel
Mechanical seal	SiC/SiC
Elastomers	NBR
Mechanical connection parts	Stainless steel

Scope of Supply

Pump with base support, without drainage facility (see accessories)

Type W (230 V/ 1 Ph): with 10 m connection cable and mains plug

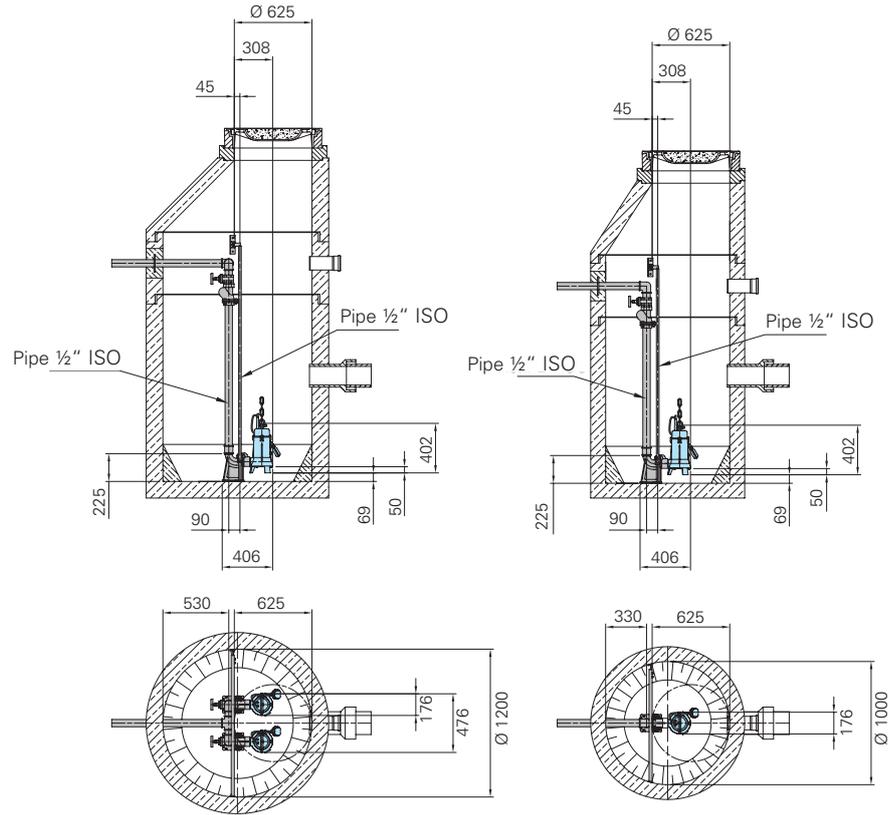
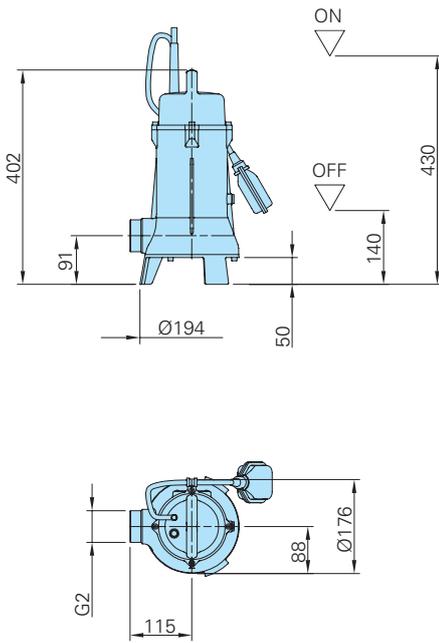
Type WA: with 10 m connection cable, mains plug and float switch.

Type DL: with loose cable end.

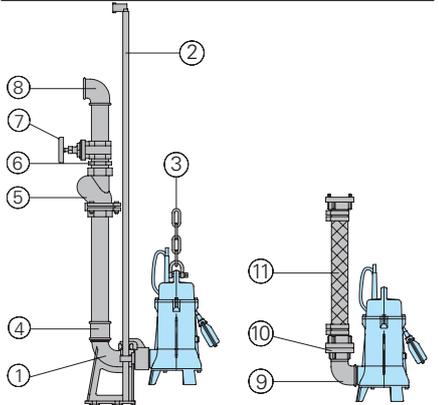
Sump installation with auto-coupling system.

Twin unit

Single unit



Accessories



Part Description	Dimension	Part No.
① Automatic coupling system with mating flange, base elbow		
- Guide pipe bracket cast iron KK50/R2"		8604005
- Guide pipe bracket stainl. steel KKR50-1/R2"		8604019
○ Coupling system, fully or partly stainless steel	all	on demand
○ Sets of screws/bolts for fastening coupling systems		on demand

Part Description	Dimension	Part No.
○ Intermediate bracket for slide rail extension	Ø 1" for KKR50-1 Ø 1/2" for KK50	7323714 7320271
② Slide rails, in pairs, per m steel galvanised	Ø 1/2" Ø 1"	2190085 2190135
Stainless steel	Ø 1/2" Ø 1"	2190250 2190252
③ Pump chain sets, tested. With shackles single or dual row various lengths and load bearing capacities		on demand
④ Double socket, galvanised	BSP 2" F BSP 2" F x BSP 1 1/2" F	2109102 2102210
⑤ Non-return ball valve cast iron	BSP 1 1/2" F BSP 2" F	2212902 2212903
⑥ Double nipple, galvanised	BSP 1 1/2" M BSP 2" M	2009020 2009018
⑦ Shut-off gate valve MS	BSP 1 1/2" F BSP 2" F	2216015 2216020
⑧ 90° angle, galvanised	BSP 1 1/2" F BSP 2" F	2113605 2113606
T-piece for merging the pressure pipe in dual pump stations	BSP 1 1/2" F BSP 2" F	2114302 2114306
◎ 90° angle, galvanised	BSP 1 1/2" F/M BSP 2" F/M	2111505 2111506
Double socket, galvanised	BSP 2"/1 1/2" F	2102210

Part Description	Dimension	Part No
Ⓣ STORZ-fixed coupling	C-2" F	2010204
STORZ-hose-coupling	C-52 mm Ø	2013003
STA-hose screw connection, brass	BSP 1 1/2" F	2001513
Synthetic pressure hose rubber-coated inner with couplings	10 m long 15 m long 20 m long 30 m long	2611310 2611315 2611320 2611330
Plastic spiral hose, per m,	Ø 50 mm	2632050
PVC hose, per m	1 1/2" Ø 38 mm	2621500
Hose clip	1 1/2" 2"	2304854 2306009
○ Pump control systems and switching gear for mobile and permanent usage, level recording and monitoring devices		See HOMA accessories



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