

**Submersible motor pumps
for domestic drainage water containing solids.
Free passage 50 mm.**

TP48

Application

Submersible motor pumps in the TP48 series are used for conveying domestic drainage- 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 fibers. Ideal for economical disposal in municipal, private, trade and industry applications.

DIN EN 12050-2: Design tested and monitored.

Installation: Stationary or mobile. Version with float switch for use as automatic water level controlled drainage pump.

Pumped medium: Clean water and waste water with solid and fibrous content.

Max. temperature of pumped medium: 40°C, for brief periods up to 60°C.

Operating mode: Submerged motor: Continuous operation (S1). Surfaced motor or medium temperature 41-60 °C: Intermittent operation (S3 30%)

Design

Fully submersible pump, consisting of:

Pump: Single-stage with horizontal discharge.

Impellers: M= open single-channel impeller for sludgy media with solids or fibrous content.

V = Vortex impeller for media containing gas or air, with coarse or long stringy components that are prone to clogging.

Motor: Fully submersible motor, sealed against pressurized water, oil-filled. Insulation class H, Protection rating IP68.

Single phase version with thermal sensor in the winding for temperature monitoring. Electrical compartment is separate from motor.

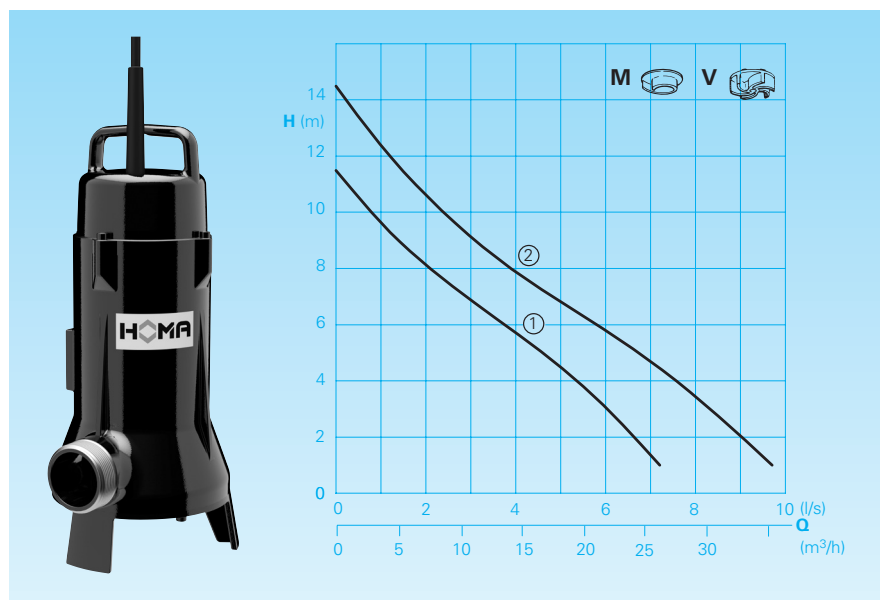
Connecting cable: H07RN-F 4G1,5

Model WA: H07RN-F 3G1,0

Shaft/bearing: strongly dimensioned chrome steel shaft, lifetime-lubricated roller bearings.

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 input P ₁ (kW)	P ₂ (kW)	Voltage 50 Hz (V)	Nominal current (A)	Weight (kg)
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

Rotational speed: 2900 rpm

Discharge: G2

Model A: with automatic HOMA-Nivomatik float switch

Model L: without switchgear, with loose cable end.

Materials

Pump housing, motor housing	Cast iron EN-GJL-250
Impeller, motor 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)

Model W (230 V / 1 Ph):

With 10 m of connecting cable and mains plug.

Model WA: With 10 m of connecting cable, mains plug and float switch.

Model DL: Without switchgear, with loose cable end.