

**Submersible motor pumps**  
**for domestic drainage water containing solids.**  
**Free passage 30 and 42 mm.**

TP30

Application

Submersible motor pumps in the TP30 series are used for conveying domestic drainage- and waste water as well as sludge. With their large free passage of 30 or 42 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.

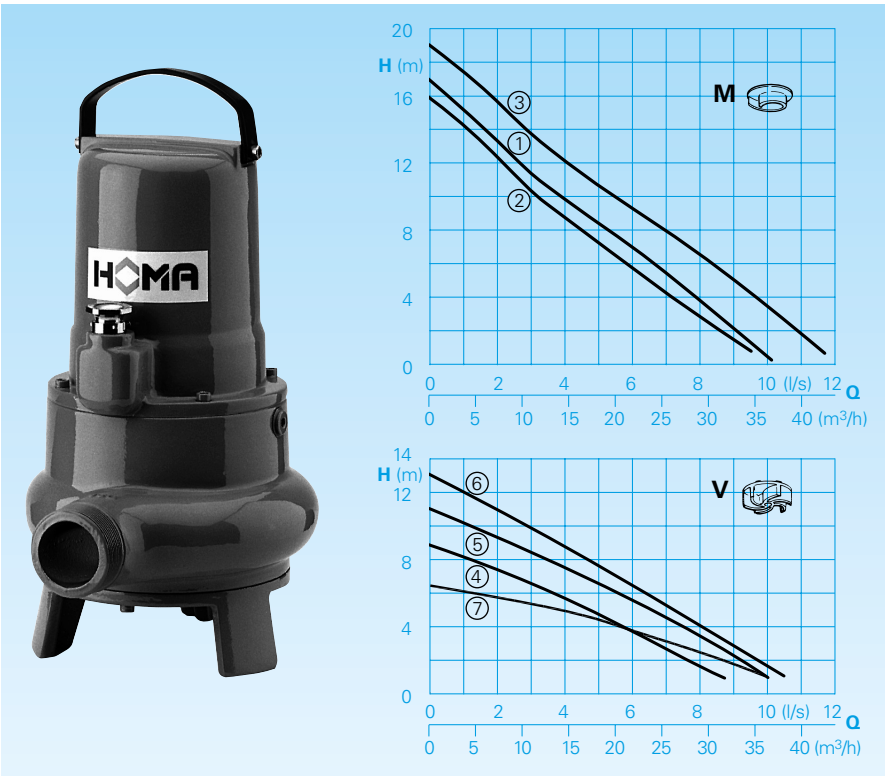
**Installation:** Stationary or mobile.  
 Version with float switch for use as automatic water level controlled drainage pump.

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

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

**Operating mode:** Continuous operation (S1).

Conveying capacities



Design

Fully submersible pump, consisting of:

**Pump:** Single-stage with horizontal discharge G2.

**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, Insulation class H. Protection rating IP 68. Thermal sensor for temperature monitoring in the winding.

Connecting cable:

Model W: H07RN8-F 4G1,5

Model D and Ex: H07RN8-F 6G1,5

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

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

**Explosion protection:** All pump models are also available in EX version according to II 2 G Ex c d II BT4(T3).

Technical data

| Curve No. | Pump type           | Motor input         |                     | Capacitor* (µF) | Rotational speed (rpm) | Nominal current (A) | Free passage (mm) | Weight (kg)    |          |
|-----------|---------------------|---------------------|---------------------|-----------------|------------------------|---------------------|-------------------|----------------|----------|
|           |                     | P <sub>1</sub> (kW) | P <sub>2</sub> (kW) |                 |                        |                     |                   | Standard model | Ex model |
| ①         | TP30M 17/2 W(A)(Ex) | 1,6                 | 1,2                 | 30              | 2900                   | 7,5                 | 30                | 27,0           | 32,0     |
| ②         | TP30M 13/2 D(A)(Ex) | 1,2                 | 0,9                 |                 | 2900                   | 2,1                 | 30                | 26,0           | 31,0     |
| ③         | TP30M 17/2 D(A)(Ex) | 1,6                 | 1,2                 |                 | 2900                   | 2,9                 | 30                | 27,0           | 32,0     |
| ④         | TP30V 17/2 W(A)(Ex) | 1,6                 | 1,2                 | 30              | 2900                   | 7,5                 | 30                | 27,0           | 32,0     |
| ⑤         | TP30V 13/2 D(A)(Ex) | 1,2                 | 0,9                 |                 | 2900                   | 2,1                 | 30                | 26,0           | 31,0     |
| ⑥         | TP30V 17/2 D(A)(Ex) | 1,6                 | 1,2                 |                 | 2900                   | 2,9                 | 30                | 27,0           | 32,0     |
| ⑦         | TP30V 10/4 D(A)     | 1,0                 | 0,7                 |                 | 1450                   | 2,3                 | 42                | 27,0           | 32,0     |

**Model W:** 230V/1Ph 50Hz

**Model D:** 400V/3Ph 50Hz

**Model A:** with automatic float switch  
 HOMA-Nivomatik

**\* Capacitor:** for the operation it is necessary to install a capacitor in the switchgear.

**Model Ex:** explosion-proof

Materials

|                                       |                      |
|---------------------------------------|----------------------|
| Pump housing, impeller, motor housing | Cast iron EN-GJL-250 |
| Motor shaft, screws                   | Stainless steel      |
| Mechanical seals                      | Silicon carbide      |
| Elastomers                            | NBR                  |

Scope of supply

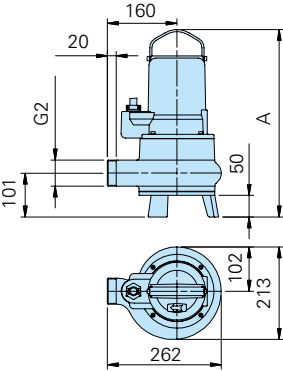
All pumps with base stand, without auto coupling (see accessories). With 10 m of loose cable end. (switchgear see accessories)

**Model A:** Additionally with automatic float switch, switchgear WA10/19; DA10/32; DA10/12 with AS-float switch, with 10 m of cable, Manual/Auto-switch. Ex-Model with intrinsically safe control circuit relay.

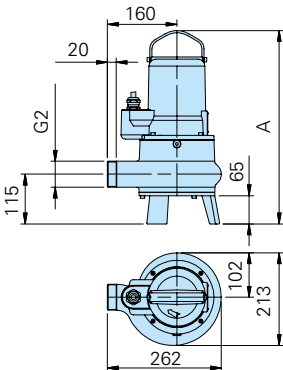
Dimensions and installation example (all dimensions in mm)

Floorstanding installation with base stand

| Pump type           | Dim. A | D  | E  |
|---------------------|--------|----|----|
| TP30M(V).../2W(D)   | 431    | 50 | 59 |
| TP30M(V).../2W(D)Ex | 438    | 50 | 59 |

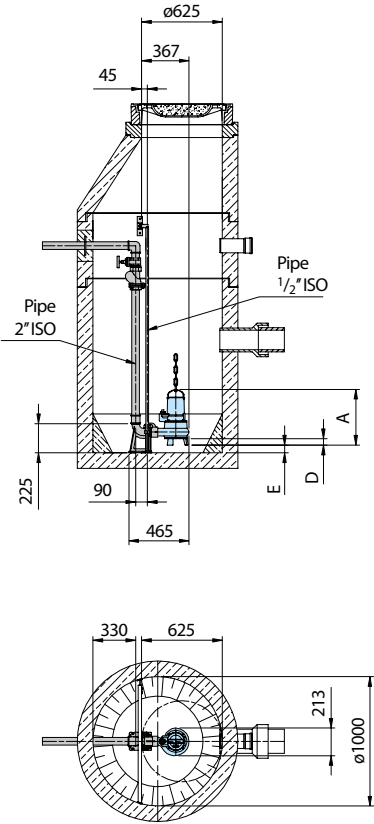


| Pump type     | Dim. A | D  | E  |
|---------------|--------|----|----|
| TP30V10/4W(D) | 445    | 65 | 46 |

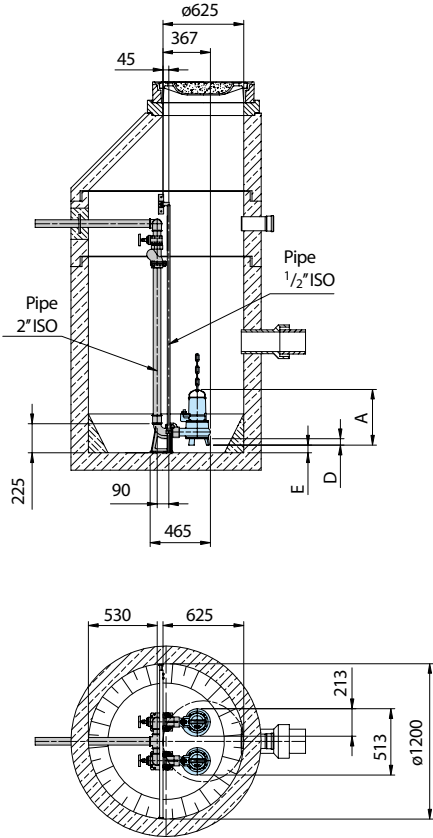


Shaft installation with automatic coupling system.

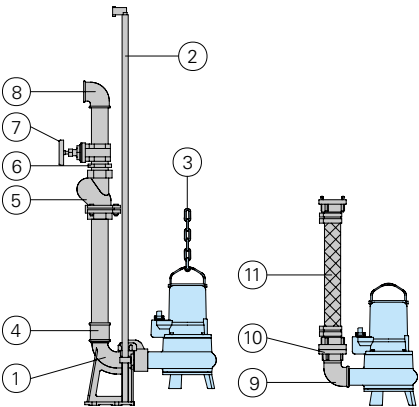
Single unit



Twin unit



Accessories



| Description                                                | Size | Part no.   |
|------------------------------------------------------------|------|------------|
| ① Automatic coupling system with mating flange, base elbow |      |            |
| - Slide rail bracket GG KKR50/BSP2"                        |      | 8604005    |
| - Slide rail bracket VA KKR50-1/BSP2"                      |      | 8604019    |
| ○ Coupling system completely or partly in stainless steel  | all  | on request |

| Description                                                                                                | Size                                 | Part no.           |
|------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------|
| ○ Screw-Kits for fastening coupling systems                                                                |                                      | on request         |
| ○ Intermediate bracket for slide rail bracket extension                                                    | Ø 1" für KKR50-1<br>Ø 1/2" für KKR50 | 7323714<br>7320271 |
| ② Guide rails for coupling kits (steel galvanized and stainless steel A2/A4)                               |                                      | on request         |
| ③ Pump chain sets, tested. With shackle, single or dual row, different lengths and load bearing capacities |                                      | on request         |
| ④ Double socket, galvanized                                                                                | BSP 2"F<br>BSP 2"F/<br>BSP 1 1/2"F   | 2109102<br>2102210 |
| ⑤ Non-return ball valve cast iron                                                                          | BSP 1 1/2"F<br>BSP 2"F               | 2212902<br>2212903 |
| ⑥ Double nipple, galvanized                                                                                | BSP 1 1/2"M<br>BSP 2"M               | 2009020<br>2009018 |
| ⑦ Shut-off gate valve MS                                                                                   | BSP 1 1/2"F<br>BSP 2"F               | 2216015<br>2216020 |

| Description                                                                                                              | Size                                             | Part no.                                 |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------|
| ⑧ 90° Bend, galvanized                                                                                                   | BSP 1 1/2"F<br>BSP 2"F                           | 2113605<br>2113606                       |
| T-piece for merging the pressure pipe in double pump stations                                                            | BSP 1 1/2"F<br>BSP 2"F                           | 2114302<br>2114306                       |
| ⑨ 90° Bend, galvanized                                                                                                   | BSP 2"F/M<br>BSP 1 1/2"F/M                       | 2111506<br>2111505                       |
| Double socket, galvanized                                                                                                | BSP2"F/BSP1 1/2"F                                | 2102210                                  |
| ⑩ STORZ-fixed coupling                                                                                                   | C-G2"F                                           | 2010204                                  |
| STORZ-hose-coupling                                                                                                      | C-52 mm Ø                                        | 2013003                                  |
| STA-threaded-hose fitting, brass                                                                                         | BSP 1 1/2"F                                      | 2001513                                  |
| ⑪ Synthetic pressure hose with rubber lining, with couplings                                                             | 10 m long<br>15 m long<br>20 m long<br>30 m long | 2611310<br>2611315<br>2611320<br>2611330 |
| Plastic spiral hose, per m                                                                                               | Ø 50 mm                                          | 2632050                                  |
| PVC-hose, per m                                                                                                          | 1 1/2" Ø 38 mm                                   | 2621500                                  |
| Hose clamp                                                                                                               | 1 1/2"<br>2"                                     | 2304854<br>2306009                       |
| ○ For pump controllers and switchgears for mobile and stationary applications, measuring systems and monitoring devices, |                                                  | see HOMA accessories                     |



We reserve the right to alter our specifications without notice!

HOMA Pumpenfabrik GmbH | Industriestraße 1, D-53819 Neunk.-Seelscheid | Tel. +49 (0) 22 47 / 702-0, Fax +49 (0) 22 47 / 702-44 | info@homa-pumpen.de | www.homapumps.com