

**Stainless steel submersible motor pumps  
for chemically aggressive media.  
Free passage 50 up to 70 mm.**

## CTP50, CTP70

### Application

Submersible motor pumps in the CTP50 and CTP70 series are used for pumping corrosive, abrasive or chemically aggressive domestic drainage- and waste water as well as fluid chemicals. With their large free passage of 50 or 70 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.

Pumped medium: Domestic drainage- and waste water with solid and fibrous and chemically aggressive content.

PH-value 3-14, with aggressive media maybe lower see specific resistance chart of used materials.

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

Operating mode: Continuous operation (S1).

### Design


Fully submersible pump, consisting of:  
Pump: single stage centrifugal pump with horizontal discharge.

Impeller: Closed single-channel impeller for sludgy media containing solids or fibrous content. Free passage 50 mm or 70 mm.

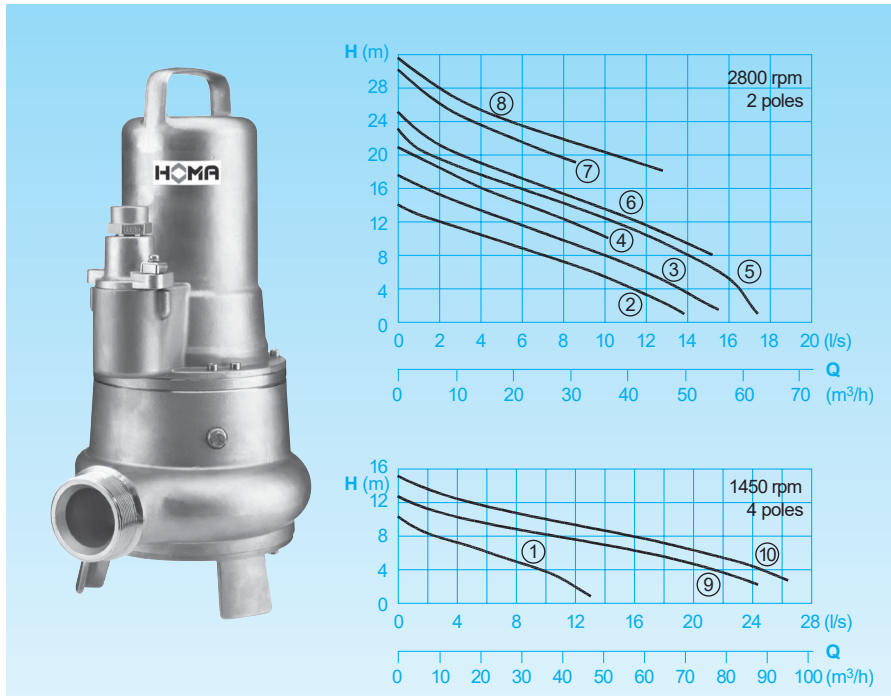
Motor: Fully submersible motor, sealed against pressurized water. Insulation class H. Protection rating IP 68. Thermal sensor for temperature monitoring in the winding. Connecting cable: H07RN8-F (Plus) 6G1,5 with cable protection hose and longitudinally tight cable trumpet.

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

Seals: Combination of 2 mechanical seals (Silicon carbide/Silicon carbide) inside separate oil chamber that is independent of the direction of rotation. Oil control possible from the outside.

Explosion protection: All pump models are also available in EX version according to  II 2 G Ex c d II B T4(T3).

### Conveying capacity



### Technical data

Curve No.	Pump type	Motor input P <sub>1</sub> (kW)	Motor input P <sub>2</sub> (kW)	Rotational speed (rpm)	Nominal current (A)	Free passage (mm)	Discharge	Weight (kg)
a	CTP50 M 13/4 D (Ex)	1,3	1,0	1450	2,6	50	G2 1/2	39
b	CTP50 M 19/2 D (Ex)	1,9	1,5	2800	4,0	50	G2 1/2	39
c	CTP50 M 23/2 D (Ex)	2,3	1,8	2800	4,4	50	G2 1/2	39
d	CTP50 M 24/2 D (Ex)	2,4	1,9	2800	4,6	50	G2 1/2	39
e	CTP50 M 34/2 D (Ex)	3,4	2,8	2800	5,8	50	G2 1/2	51
f	CTP50 M 35/2 D (Ex)	3,5	2,8	2800	5,8	50	G2 1/2	51
g	CTP50 M 35/2 HD (Ex)	3,5	2,8	2800	5,8	50	G2 1/2	51
h	CTP50 M 50/2 D	5,2	4,4	2800	8,7	50	G2 1/2	62
i	CTP70 M 26/4 D (Ex)	2,5	2,0	1450	5,4	70	DN 80	65
j	CTP70 M 31/4 D (Ex)	3,2	2,5	1450	6,1	70	DN 80	65

Voltage: 400V/3Ph 50Hz  
\* CTP70 = DIN EN 12050-1

Model Ex: explosion-proof

### Materials

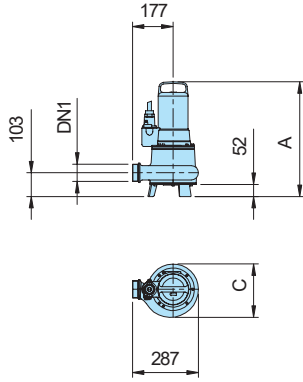
Pump housing, motor housing	Stainless steel 1.4436
Wear ring, motor shaft, mechanical connection parts	Stainless steel 1.4571
O-rings	FPM (Viton)
Mechanical seal	SiC / SiC, FPM (Viton)
Cable protection hose	Polyolefin
Impeller CTP50	Stainless steel 1.4436
CTP70	Stainless steel 1.4517

### Scope of supply

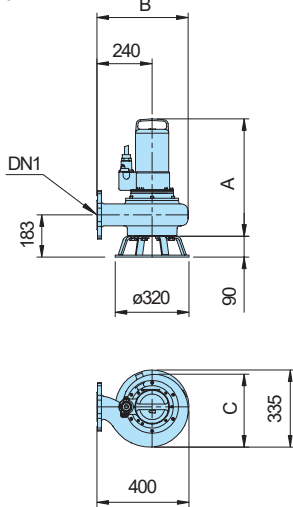
Pump with integrated base stand. Base stand for CTP70 available as accessories.  
10 m of connecting cable, 5 m cable protection hose, loose cable end. Switchgears DT32; DA10/32; DA10/12; DZ12 available as accessories.

**Dimensions and installation example** (all dimensions in mm)

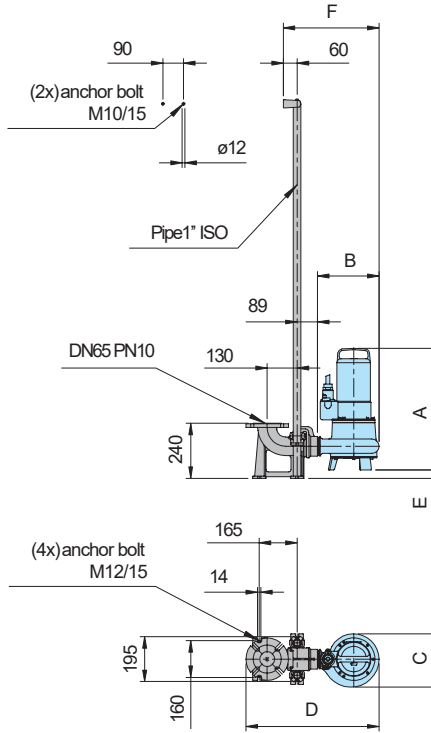
**CTP50M**



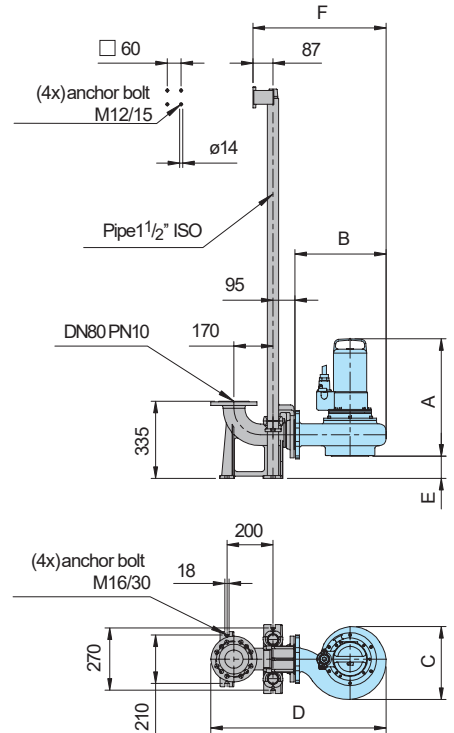
**CTP70M**



**CTP50M  
KKC65/ BSP 2½" - VA**

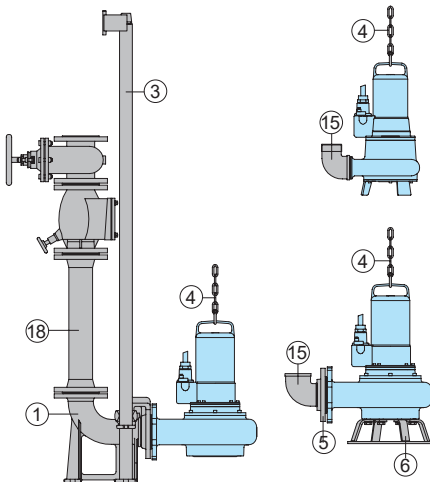


**CTP70M  
KKC80/ 80 - VA**



Pump type	DN1	A max	B	C	D	E	F
CTP50 M 13/4 D (Ex)	G2 1/2	498	267	232	579	37	416
CTP50 M (19-24)/2 D (Ex)	G2 1/2	498	267	232	579	37	416
CTP50 M (34-35)/2 D (Ex)	G2 1/2	529	267	232	579	37	416
CTP50 M 35/2 HD (Ex)	G2 1/2	529	267	232	579	37	416
CTP50 M 50/2 D (Ex)	G2 1/2	567	267	232	579	37	416
CTP70 M (26-31)/4 D (Ex)	DN80 PN10	511	397	317	762	97	579

**Accessories**



Description	Size	Part no.	Description	Size	Part no.
a Automatic coupling system from stainless steel 1.4436, with clutch foot bend, coupling mating flange and slide rail bracket			d Pump chain sets, tested. With shackle, single or dual row, different lengths and load bearing capacities		on request
- Type KKC65/BSP2½"	DN 65/BSP2½"	8604017	e Threaded flange	DN 65/BSP2½" F	2215115
- Type KKC80/80	DN 80	8604027	f Base stand for CTP70		7321344
u Screw-Kits for fastening coupling systems		on request	o Connection bend 90°, BSP2½" F/M		2111826
u Intermediate bracket for slide rail bracket extension	Ø 1" für KKC65 Ø 1½" für KKC80	7322085 7323854A	r Pressure pipe and fittings made of stainless steel or plastic		on request
c Guide rails, Stainless steel 1.4571, in pairs, per m	Ø 1" for KKC65 Ø 1½" for KKC80	2190252 2190254	u 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!