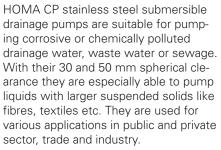


#### Stainless steel submersible drainage pumps for chemically polluted drainage water. Spherical clearance 30 and 50 mm.

### CPM, CPV

#### Application

Performance



DIN EN 12050-2: Conformity and design approved and controlled by LGA Installation: Transportable or permanent. Models with float switch control for automatic pump operation, depending on liquid level in the sump.

**Pumped liquid:** Drainage water or sewage containing soft solids and chemically polluted drainage water. pH-value 5-10. Max. liquid temperature: 40°C

**Operation:** motor submerged: permanent (S1) motor surfaced: short term (S2) or intermittent (S3), see technical data.

#### Design

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

**Pump:** Single stage centrifugal pump with horizontal discharge.

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

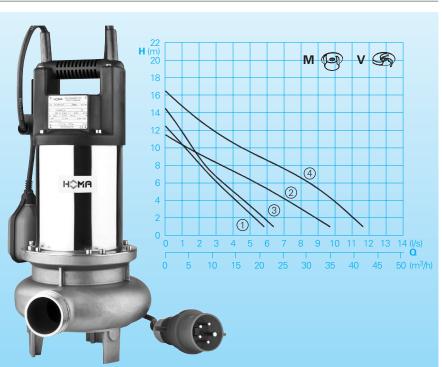
V = Vortex impeller for liquids containing a high level of impurities or fibrous matter and containing gas

**Motor:** Fully submersible, pressure tight electric motor. Insulation class F. Degree of protection IP 68.

Thermal monitoring in the winding. cable: Model W: H07RN-F3G1 | Model D: H07RN-F4G1

**Shaft/Bearing:** Large diameter stainless steel rotor shaft, pre-lubricated bearings.

**Seals:** Combination of mechanical seals (silicon-carbide/silicon-carbide) and lip seal in separate oil chamber.



#### **Technical Data**

Curve	Pump type	Motor		Nominal	Discharge	Spherical	Opera	tion	Weigth
No.	- 1, -71, -	P <sub>1</sub> (kW)	P <sub>2</sub> (kW)	current (A)		clearance (mm)	S2 (min)	S3* (%)	(kg)
1	CPV 310 W(A)	1,0	0,7	4,4	G 1 ½ A	30	20	40	13
1	CPV 310 D(A)	1,0	0,7	2,0	G 1 ½ A	30	30	50	13
2	CPV 515 W(A)	1,5	1,2	6,5	G 2 A	50	20	40	16
2	CPV 515 D(A)	1,5	1,2	2,5	G 2 A	50	30	50	16
3	CPM 310 W(A)	1,0	0,7	4,4	G 1 ½ A	30	20	40	13
3	CPM 310 D(A)	1,0	0,7	2,0	G 1 ½ A	30	30	50	13
4	CPM 515 W(A)	1,5	1,2	6,5	G 2 A	50	20	40	16
4	CPM 515 D(A)	1,5	1,2	2,5	G 2 A	50	30	50	16

Speed: 2900 rpm Model W: 230-240V/1Ph 50Hz Model D: 400-415V/3Ph 50Hz

#### Materials

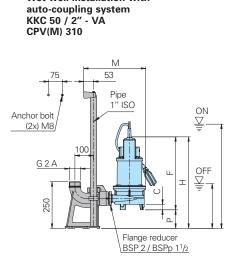
IVIALEITAIS				
Pump housing, Impeller	Stainless Steel 1.4308			
Motor housing	Stainless Steel 1.4301			
Motor housing cover	Composite GFK 30			
Rotor shaft	Stainless Steel 1.4304			
Mechan. connection parts	Stainless Steel			
Elastomere	NBR			
Mechanical seal	SiC / SiC			

\* Example: 40% = 4 min operation + 6 min break (cycle time 10 min)

#### **Equipment supplied**

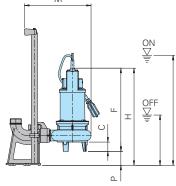
Pumps with base stand, 10 m of cable. **Model W:** with plug type F. **Model D:** with phase inverter. **Model A:** with automatic level control HOMA-Nivomatik. Free standing pump with base stand

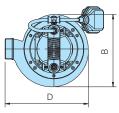
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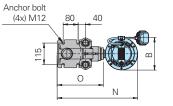


Wet well installation with









Pump type	Α	В	С	D	Ε	F	G	н	Μ	Ν	0	Ρ
CPV(M) 310	G 1 ½ A	175	30	203	61	392	115	491	334	433	249	99
CPV(M) 515	G 2 A	210	50	242	85	446	142	521	357	457	233	75

 N	

Limit value float switch	ON	OFF
Base stand		
CPV(M) 310	410-460	140-190
CPV(M) 515	465-515	195-245
Coupling-system		
CPV(M) 310	509-559	239-289
CPV(M) 515	540-590	270-320

# 

Accessories

Description	Dimension	Part No.	
OAuto-coupling syste stainless steel, with fla flange pump coupling upper slide rail bracket - KKC 50/R2"	ange, and	8604011	
OScrew-kits for installation of coupling system		on request	
Inter. upper slide rail bracket	Ø1" für KKC50	7323714	
② Guide rails, stainless steel	Ø1"	2190252	
③Pump chain sets, testet. With shackle, One- or Two-strand, different lengths and load capacities		on request	

Description	Dimension	Part No.
④ Stainless steel or plastic discharge pipe and fittings		on request
⑤ 90° elbow, stainless steel	BSP11/2/BSPp11, BSP2/BSPp2	2 2111824 2111507
6 Flange reducer, stainless steel (only for CPV(M) 310)	BSP2/BSPp11/2	2114318
O Pump controls and control panels for permanent or transpo installation, level contri and monitoring device	ollers	see HOMA accessories



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