

Stainless steel submersible drainage pumps for chemically aggressive liquids. Spherical clearance 10 mm.

CH 432, CH 436

Application

HOMA CH 432 and CH 436 stainless steel submersible drainage pumps are suitable for pumping corrosive, abrasive or chemically aggressive liquids, drainage water or chemicals containing soft solids up to 10 mm diameter. They are used in various domestic, industrial or municipal applications.

DIN EN 12050-2: Conformity and design approved and controlled by LGA.

Installation: Transportable or permanent.

Pumped liquid: Drainage water with abrasive or chemically aggressive contents, chemical liquids. PH-value 3-14, with chemically aggressive liquid may also be lower, see specific chemical resistance of used materials.

Max liquid temperature: 40°C, short term up to 60°C.

Operation: Permanent (S1).

Design

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

Pump: Single stage centrifugal pump with horizontal discharge.

Impeller: Open multi-channel impeller, spherical clearance 10 mm.

Motor: Fully submersible, pressure tight electric motor. Insulation class H, degree of protection IP 68. Thermal sensor embedded in the winding.

Cable: H07RN-F(PLUS)-6G1,5

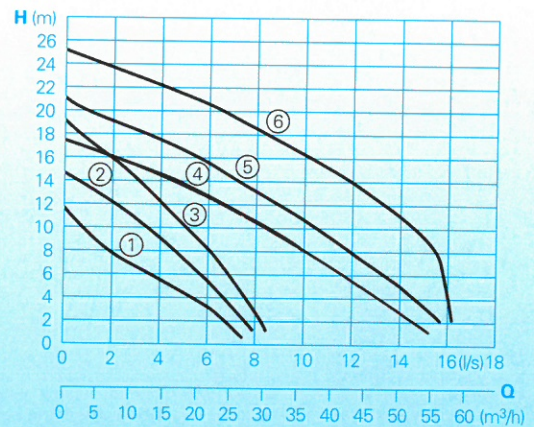
Model CH432W: H07RN-F4G1,5 with cable protective hose and longitudinally tight cable trumpet.

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

Seals: Combination of mechanical seal and lip seal (CH 432) respectively 2 mechanical seals (CH 436) from silicon-carbide/ silicon-carbide and viton in a separate oil chamber. Oil inspection from outside.

Explosion proof: All pump types also available according to \odot II 2 G Ex c d II B T4(T3).

Performance



Technical Data

Curve No.	Pump type	Motor input		Capacitor* (μF)	Nominal current (A)	Discharge	Weight (kg)
		P ₁ (kW)	P ₂ (kW)				
①	CH 432-0,9/2 W (Ex)	0,9	0,7	25	5,3	BSP 2 M	28,0
②	CH 432-1,3/2 W (Ex)	1,3	1,0	25	6,6	BSP 2 M	28,0
③	CH 432-1,7/2 W (Ex)	1,7	1,3	30	7,9	BSP 2 M	28,0
①	CH 432-0,9/2 D (Ex)	0,9	0,7		1,9	BSP 2 M	28,0
②	CH 432-1,2/2 D (Ex)	1,2	0,9		2,3	BSP 2 M	28,0
③	CH 432-1,6/2 D (Ex)	1,6	1,2		2,8	BSP 2 M	28,0
④	CH 436-1,9/2 D (Ex)	1,9	1,5		4,0	BSP 2 ½ M	40,0
⑤	CH 436-2,4/2 D (Ex)	2,4	1,9		4,6	BSP 2 ½ M	40,0
⑥	CH 436-3,5/2 D (Ex)	3,5	2,8		7,1	BSP 2 ½ M	52,0

Speed: 2800 rpm

Model W: 230-240V / 1Ph

Model D: 400-415V / 3Ph

Model Ex: explosion proof

* Capacitor: For the operation it is necessary to install a capacitor in the control box. (available as Accessories)

Materials

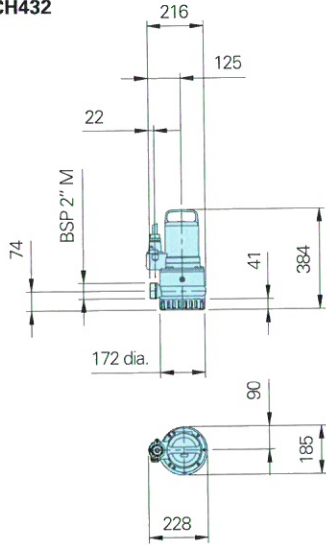
Pump housing	
motor housing	
impeller	Stainless steel 1.4436
Rotor shaft	Stainless steel 1.4462
Mechanical connection parts	Stainless steel 1.4571
O-Rings	FPM (Viton)
Mechanical seals	SiC/SiC, FPM (Viton)
Shaft seal ring	FPM (Viton)
Cable protective hose	Polyolefine

Equipment supplied

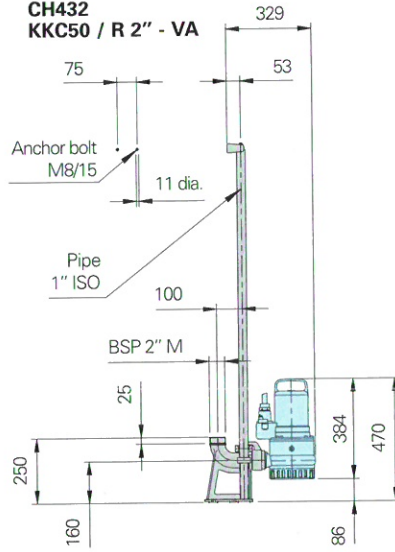
Pump with 10 m of cable, 5 m cable protective hose, loose cable end. Possible control boxes: available as accessories.

Model W:	W19; WA10/19
Model WEx:	WT19
Model D:	DT32; DA10/32
Model DEx:	DT32

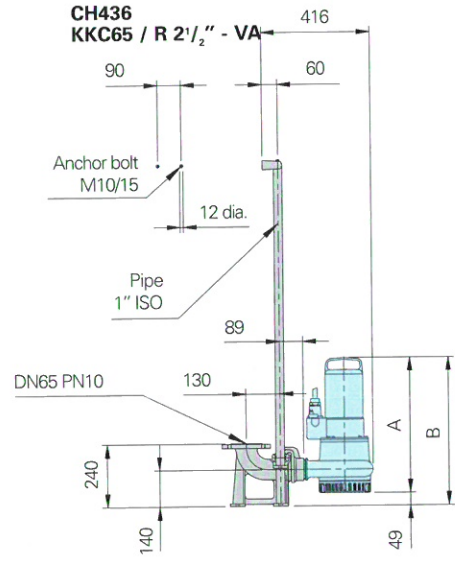
CH432



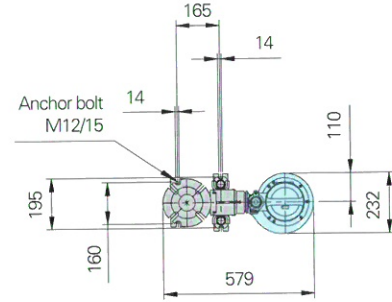
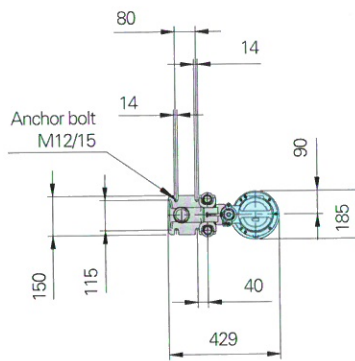
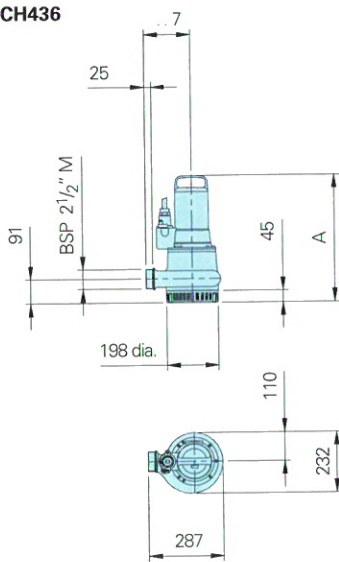
**CH432
KCC50 / R 2" - VA**



**CH436
KCC65 / R 2 1/2" - VA**

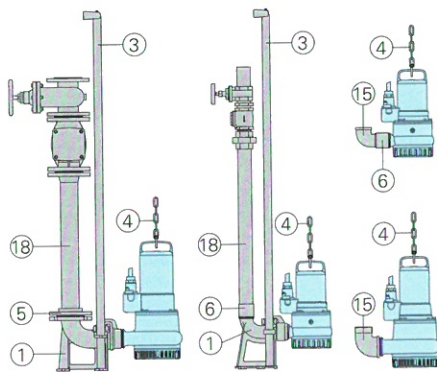


CH436



Pump type	A	B
CH436-1,9/2D(Ex)	486	535
CH436-2,4/2D(Ex)	486	535
CH436-3,5/2D(Ex)	517	566

Accessories



Part Description	Dimension	Part No.
① Auto-coupling system from stainless steel 1.4436 consisting of auto coupling with flange, flange pump coupling and upper slide rail bracket - Type KCC 50/R 2" - Type KCC 65/R 2 1/2"	BSP2"/BSP2" DN 65/BSP2 1/2"	8604011 8604017
○ Auto-coupling system complete or partial in stainless steel	all types	on request
○ Screw-kits for installation of coupling systems		on request
○ Supporting bracket for guide rail extension	Ø 1" for KCC50 Ø 1" for KCC65	7323714 7322085
③ Guide rails, pair, per m stainless steel	1" dia.	2190253

Part Description	Dimension	Part No.
④ Lifting chain, proved capacity up 200 kg division 984 mm, 4x12 with eyelet 2m long special lengths		2800371 on request
Shackle stainless steel for chain 5 mm Ø		2801390
⑤ Screw flange, stainless steel 1.4571	DN 50, PN16 DN 65, PN16	2215112 2215115
⑥ Double socket stainless steel 1.4571	BSP2" F BSP2 1/2" F	2216042 2216043
⑮ Elbow 90°, stainless steel 1.4401	BSP2" F/M BSP2 1/2" F/M	2111825 2111826
⑱ Stainless steel or plastic discharge pipe and fittings		on request
○ Pump controls and control panels for permanent or transportable installation, level controllers and monitoring devices		see HOMA-accessories



HOMA Pumpenfabrik GmbH
P.O.Box 22 63, D-53814 Neunk.-Seelscheid
Tel. +49 (0) 22 47/702-0, Fax +49 (0) 22 47/702-44
e-mail: info@homa-pumpen.de
www.homapumps.com