



CPC/CPS /DP

The Submersible Series

-suitable for industrial, commercial and domestic
waste water/ sewage pumping.



CPC / CPS Submersible Sewage pump

The Calgon range of CPC / CPS Submersible pumps are suitable for sewage and waste water applications. Suitable for pumping of liquid containing solid or fibrous material. Widely adapted in the industrial, commercial as well as the industrial sectors.

Type of Installation

- Portable Installations :Pumps are supplied with quick discharge coupling for ease of dismantling for maintenance.
- Fixed Installation :Pumps are supplied with pump foot / base suitable for free standing installation.

Technical Data

- Head (maximum) : 40 m
- Capacity (up to) : 210 m³/Hr
- Temperature (max) : 40°C
- Type of pumped medium : Waste and sewage water containing solid or fibrous material.

Application

- Raw Sewage and Sludge pumping
- Water Treatment Plants
- Storm Water discharge
- Drainage pumping station
- Basement drainage
- Commercial application
- Domestic use
- Industrial Waster water

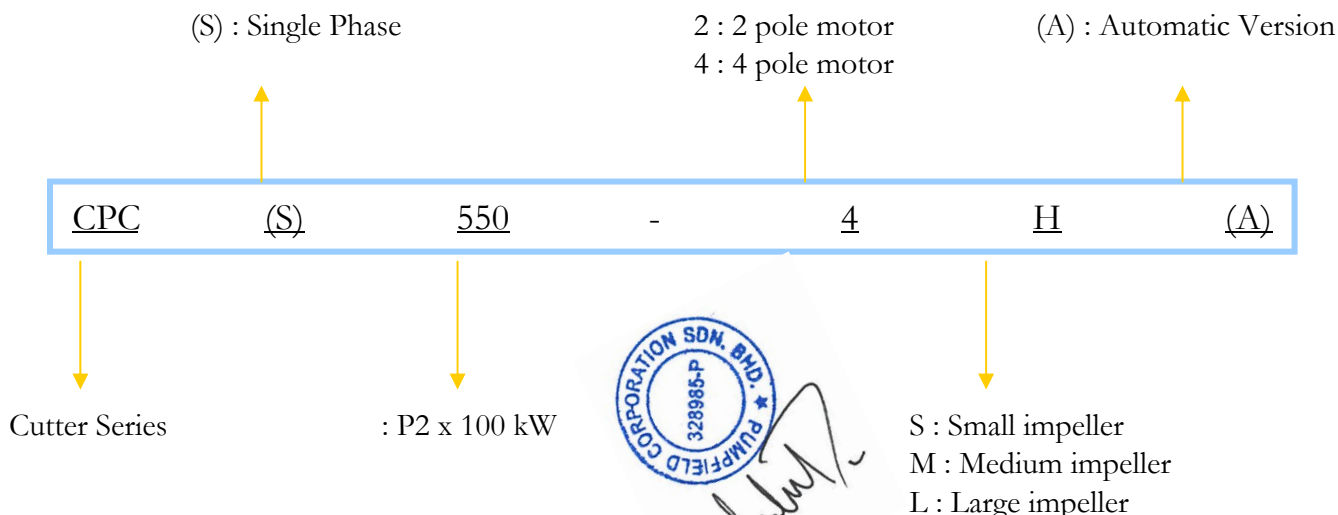
Materials of Constructions *

Parts	Standard Materials of Construction
Casing	Cast Iron FC 20
Shaft	Stainless Steel SUS 316
Impellers	Cast Iron C 20
Fasteners	Stainless Steel SUS 304



* Special material variant upon request.

Type Designation



Design Features of the Calgon CPC / CPS Submersible pumps

Control Box

Built in control box with integrated circuit ready to be connected to float switch if required.

Cables

Special indicator light available on end of cable. Red : Power on
Yellow : Leakage

Motor

Squirrel Cage Submersible motors with built in thermal sensors as option to cut off pumps operation in event of over heating.
1 ph / 240 V / 50 Hz
3 ph / 415 V / 50 Hz

Bearings

Sealed for life maintenance free ball bearings..

Mechanical Seal

Maintenance free, specially design double mechanical seal of tungsten carbide material independent of direction of rotation.

Oil Chamber

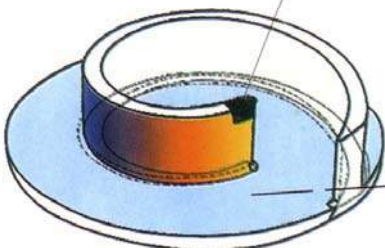
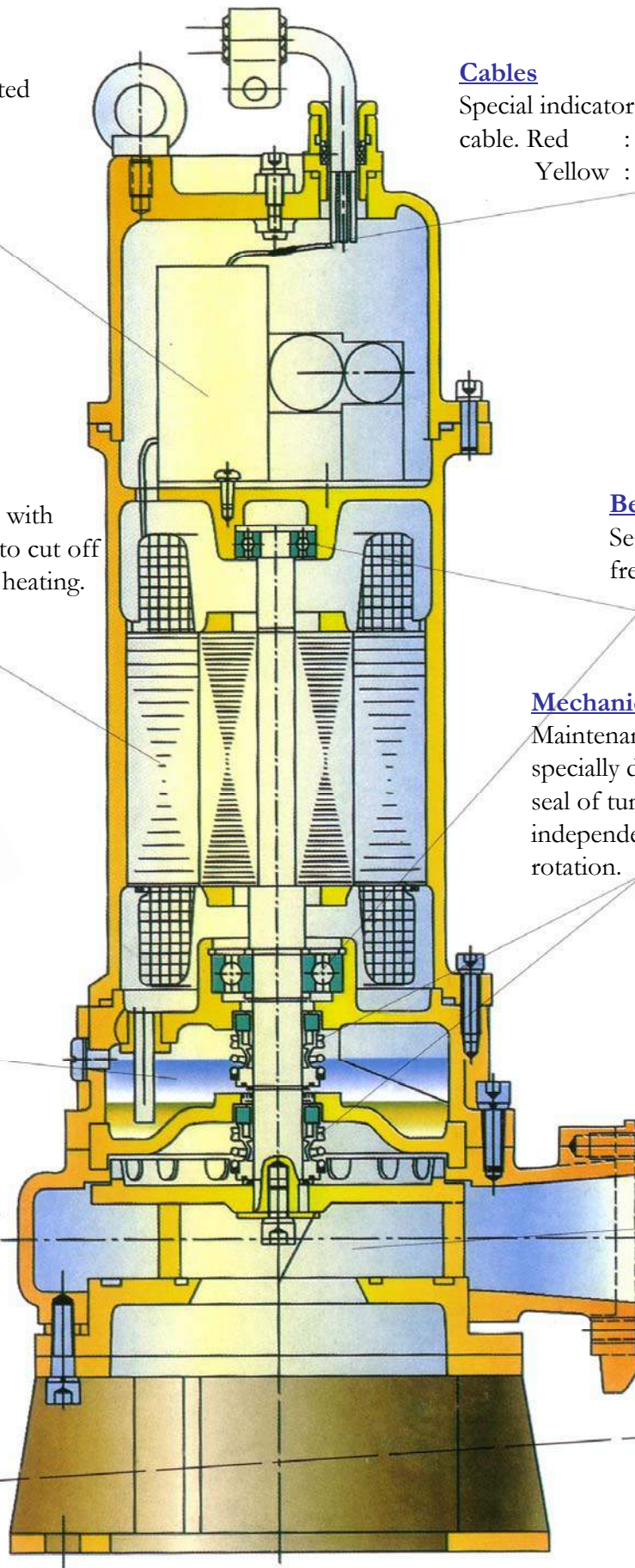
Specially designed with built in sensor to detect mechanical seal leakage.

Cutter

Cutter to enable handling of solid or fibrous material.

Impeller

Open single channel impeller with built in cutter provides best handling of solid and fibrous material



DP Submersible Drainage pumps

The Calgon range of DP Submersible pumps are suitable for waste water drainage. Impellers are semi – open suitable for clear and waste water containing solid particles. The motors are provided with a built in thermal sensor switch to automatically cut off the motor in order to prevent overloading of motor. Double mechanical seals design protects To prevent water from sipping into motor unit.

Float switch are supplied as part of the automatic versions.

Technical Data

Head (maximum)	: 32 m
Capacity (up to)	: 40 m ³ /Hr
Temperature (max)	: 40°C
Type of pumped medium	: Waste water containing solid particles.

Application

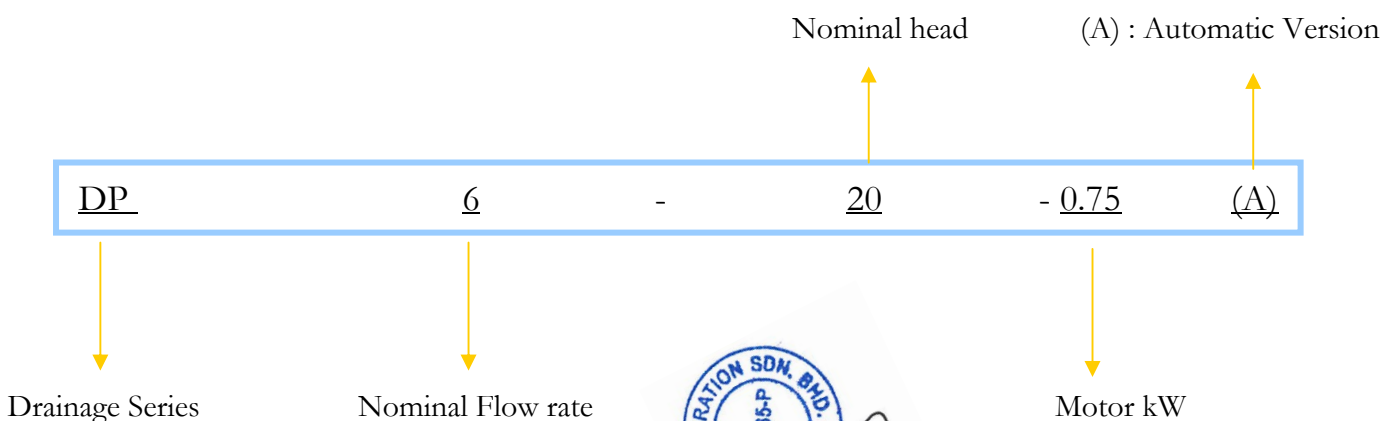
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|---|--|
| <input type="checkbox"/> Sludge pumping | <input type="checkbox"/> Basement drainage |
| <input type="checkbox"/> Water Treatment Plants | <input type="checkbox"/> Commercial application |
| <input type="checkbox"/> Storm Water | <input type="checkbox"/> Domestic use |
| <input type="checkbox"/> Drainage pumping station | <input type="checkbox"/> Industrial Waster water |

Materials of Constructions *

Parts	Standard Materials of Construction
Casing	Cast Iron FC 20
Shaft	Stainless Steel SUS 316
Impellers	Cast Iron C 20
Fasteners	Stainless Steel SUS 304

* Special material variant upon request.

Type Designation



Brosur / Katalog
CPW

Submersible Wastewater Pumps

for sewage and river water pumping

CPW Series



CPW Submersible Sewage Pumps

The Calgon range of CPW Submersible Pumps are suitable for waste water and sewage applications. The Hydraulic section is close coupled to the electric motor making the pumping unit compact, easy to install and reliable in operation. It is designed for pumping liquid containing solid or fibrous material. In addition, CPW series is widely adapted in the municipal, commercial as well as the industrial sector.



Applications

- ✓ Raw Sewage and Sludge pumping
- ✓ Water Treatment Plants
- ✓ Storm Water Discharge
- ✓ Drainage Pumping Station
- ✓ Basement Drainage
- ✓ Commercial Application
- ✓ Domestic Use
- ✓ Industrial Waste Water

Operating Data

Capacity

Head

Temperature of pumped liquid

Motor Rating

*** *Explosion motor can be supplied upon request*



: Q up to 4200 m³/hr

: H up to 68 m

: up to 40°C

: 1.5 kW and Above, IP 68, Class F

Mechanical Seal

The double mechanical seal is a dual guarantee safeguarding the electric motor. If the motor on the pump side becomes faulty, the motor will not be burnt due to the second seal on the motor side. These seals are made of material suitable to withstand heavy duty conditions.

Material of construction

Description	Material	DIN w.-Nr.	AISI/ASTM
Stator Housing	Cast Iron	0.6025	ASTM 35B
Pump Housing	Cast Iron	0.6025	ASTM 35B
Neck Ring	Bronze		
Impeller	Cast Iron	0.6025	ASTM 35B
Shaft	Stainless Steel	1.4104	AISI 430F
Bearings	Heavy-duty pre-lubricated ball bearings		
Screws	Stainless Steel	1.4104	AISI 430F
Oil	Shell Ondina 15, non-toxic		

* Other material is available upon request

Bearing

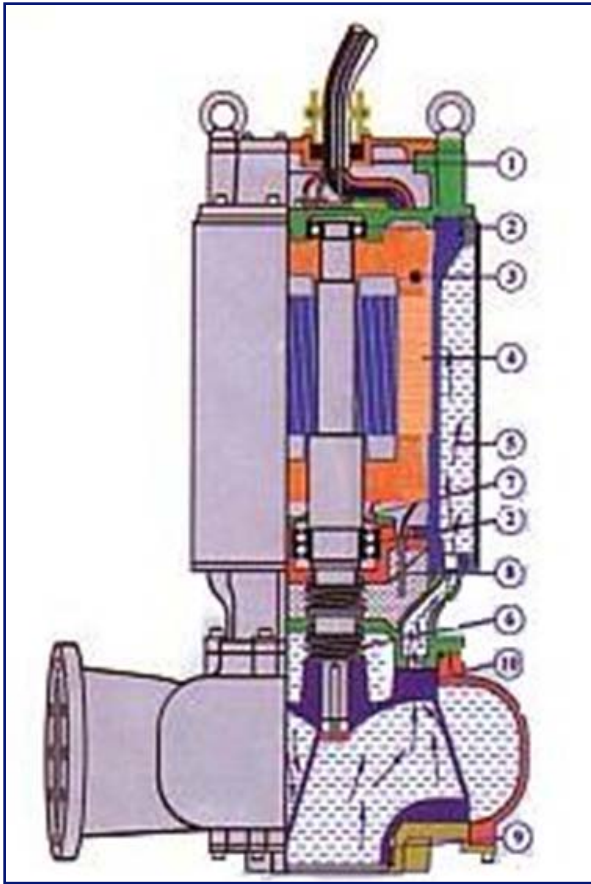
Maintenance-free grease lubricated bearing .
For motor 11 kW and above, temperature sensor is installed.



Dry Pit Version

For dry pit installation, TEFC motor can be installed vertically with a flexible coupling. Changing of mechanical seal can be carried out easily without dismantling the suction and discharge pipe.

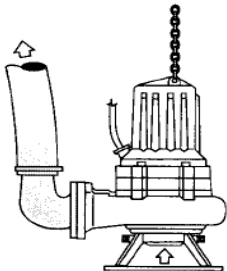
Design Features



1. Watertight incoming cable entry
2. Maintenance free bearing
Upper : ball bearing
Lower : angular contact ball bearing
3. Built in monitoring system
Winding embedded thermal switched point at 155°C to prevent against motor overheating
4. Class F insulation allows
Maximum motor operating temperature is 155°C
5. Internal cooling system
For dry pit installation
6. Double mechanical seal of Silicon Carbide material
7. Bearing temperature detector as an option
8. Oil chamber sensor to detect mechanical seal leakage
9. Special designed wear ring if required
10. Non clogging, high efficiency impeller



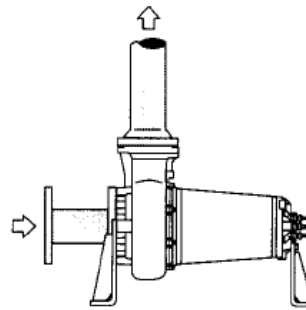
Type of Installation



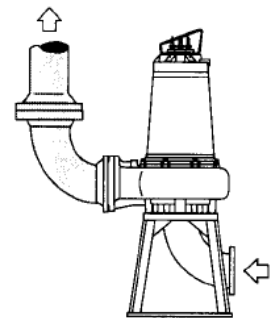
Transportable wet pit installation



Stationary wet pit installation



Horizontal dry pit installation



Vertical dry pit installation

Brosur / Katalog
CPZ



CPZ Submersible Propeller Pumps



Wet well installation single stage submersible axial flow pump with impeller blades fixed settings for vertical installation in a shaft cylinder. We able to select the best combination of hydraulic and motor with regard to output, speed, voltage and frequency in order to suit the particular application.

Applications

- Irrigation and drainage pumping stations
- Storm water pumping stations
- Flood control and agriculture
- Raw and clean water pumps in waterworks and in sewage pumping station
- Cooling water pumps in power station and industry
- Aquaculture

Drive

Three phase asynchronous motor; 50 or 60 Hz; Starting method direct

Shaft Sealing

Double mechanical seals being independent of the direction of rotation

Bearings

Maintenance free antifriction bearings with permanent grease lubrication

Operating Data

Max. capacity : 10,000 l/s
Max. head : 9 m
Max. motor rating : 850 kW
Max. liquid temperature : 40 °C

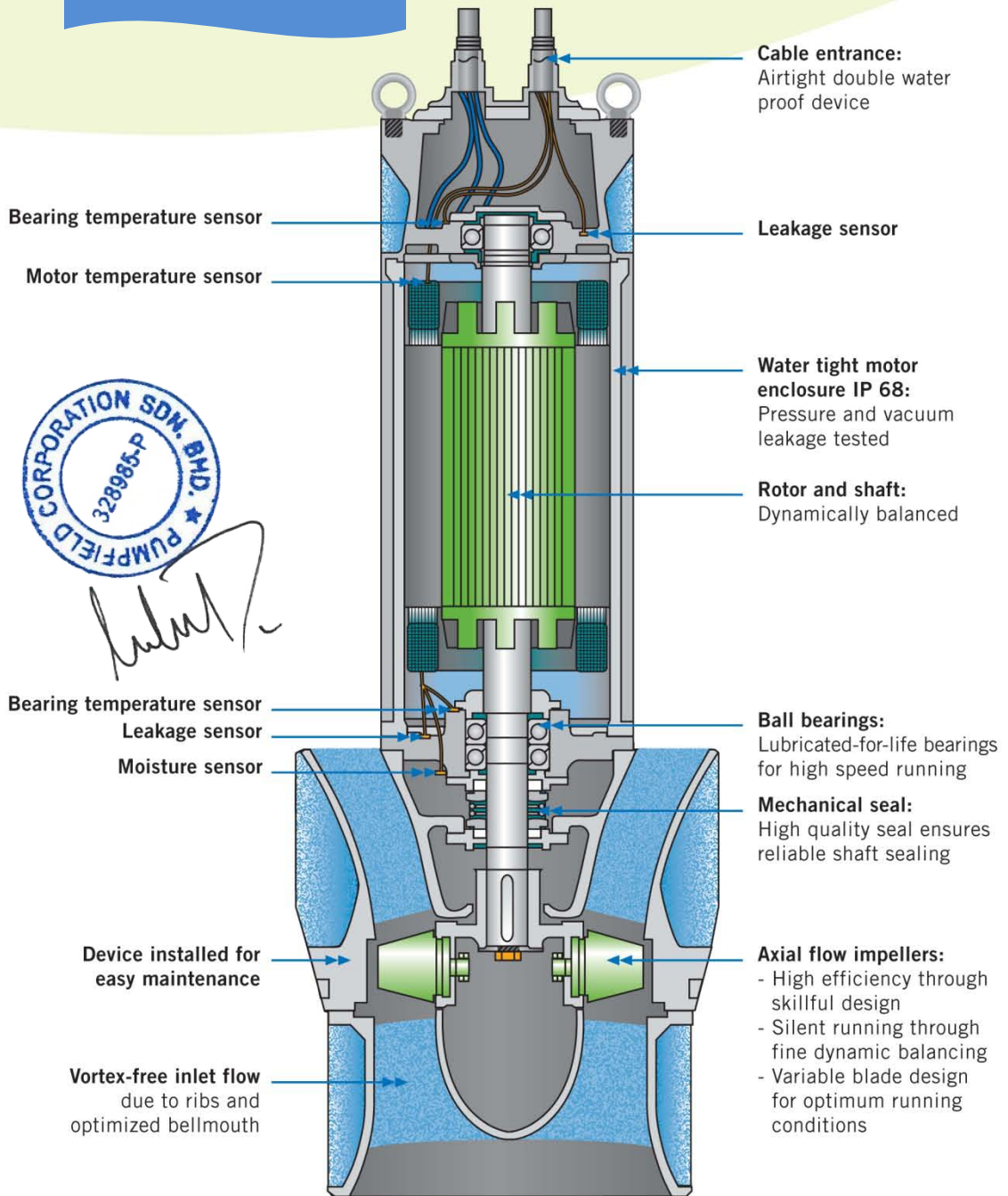


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Materials

Diffuser casing	: Cast iron
Motor housing	: Cast iron
Pump shaft	: Stainless steel 420
Propeller	: Cast iron/Stainless Steel/Al-Bronze
Casing wear ring	: Stainless Steel
Screw, bolts and nuts	: Stainless Steel

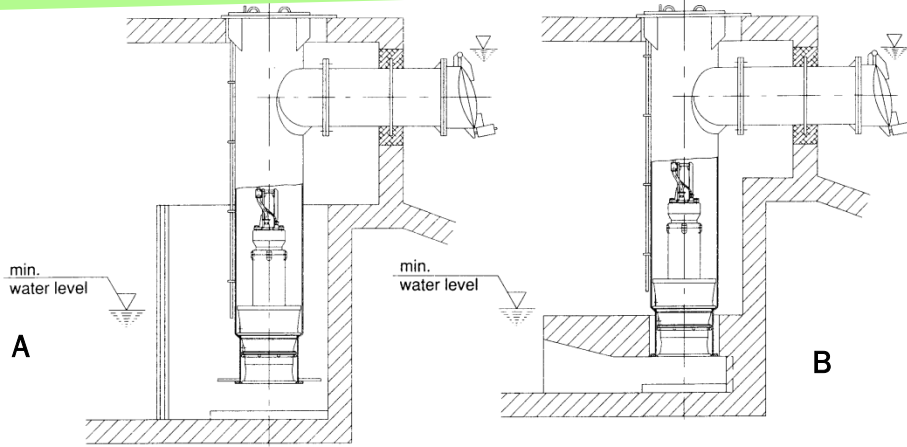
Product advantages for our customers' benefit



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Type of Installation

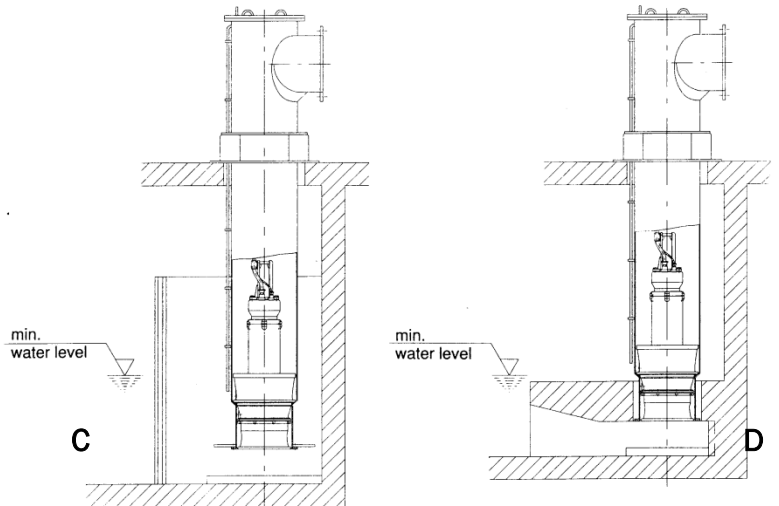


A – Steel discharge column with underfloor discharge and open inlet chamber

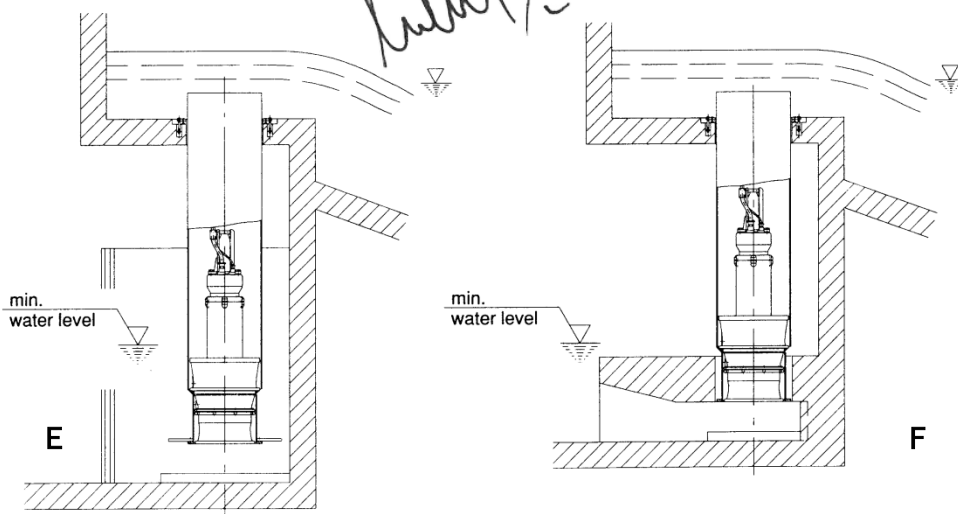
B – Steel discharge column with underfloor discharge and covered inlet chamber for low suction water levels

C – Steel discharge column with discharge nozzle above floor and open inlet chamber

D – Steel discharge column with discharge nozzle above floor and covered inlet chamber for low suction levels



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E – Steel discharge column. Overflow design with open inlet chamber

F – Steel discharge column. Overflow design with covered inlet chamber for low suction water levels