

Drainage pumps SÖFFEL* C

Design

The **oddesse** drainage pumps SÖFFEL* C are single stage centrifugal pumps with open multi blade impeller. They can be used for vertical, horizontal or inlined installation.

The double casing made of aluminum alloy (AlSi10Mg-T5) guarantees the best cooling of the motor by circulating the pumped fluid. The pump can be used for continuous working-, sipping suction and emerging operation. The water- and oil-side mechanical seals are made of silicon carbide and guarantee a safety sealing of the motor and work independent of direction of rotation.

The impeller (made of stainless steel 1.4470) and the wear resistant diffuser guarantee a long life cycle. The anti-friction bearings are life time grease lubricated. They assure a vibration-free operation.

The motors are designed as three phase AC motors equipped with a thermal winding protection.

Fields of application

The drainage pumps SÖFFEL* C are used for the delivery of clean or dirty water with solid admixtures up to a particle size of 10 mm, a pH-value from 4 up to 8 and a medium temperature during continuous operation of up to 40 °C, for a short time up to 60 °C.

- water supply in construction industry and in mining
- watering and draining in communities, gardens and domestic sectors
- used in disastered areas and by fire brigades
- water supply in industry and agriculture
- fountains

Material specification

| Components | Design | |
|----------------|------------------------|-----------------|
| Casing | Aluminium alloy | AlSi10Mg-T5 |
| Stator sleeve | Stainless steel | 1.4301 |
| Inlet strainer | Stainless steel | 1.4301 |
| Impeller | Stainless steel | 1.4470 |
| Diffuser | Aluminium rubberised | AlSi10Mg-T5/NBR |
| Shaft | Stainless steel | 1.4404 |
| Shaft sealing | Double mechanical seal | SiC/SiC |
| Fasteners | Stainless steel | 1.4301 |

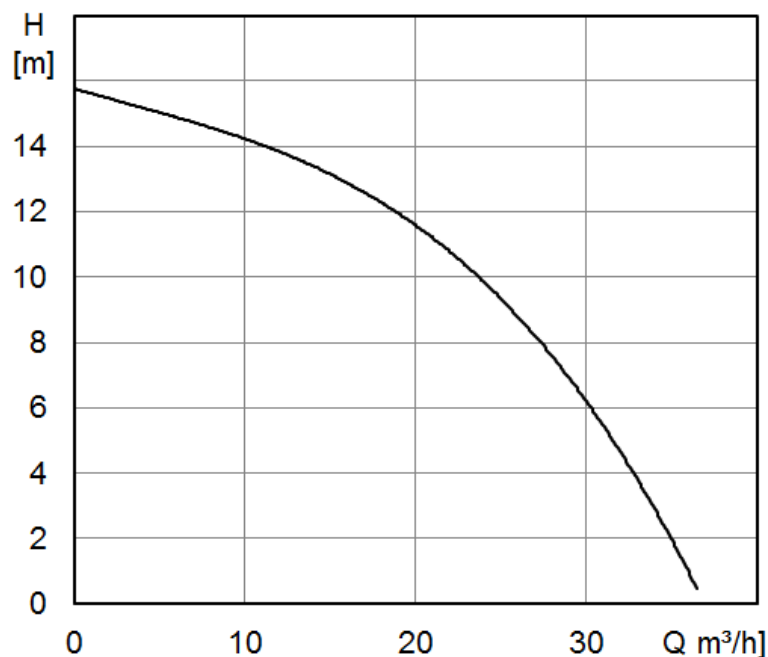
Electrical connection

- 23 m rubber-jacket cable
- alternatively with phase reversing connector,
- with motor protection connector plug or
- with motor protection connector plug and float switch

Technical data SÖFFEL* C35

- Delivery rate range 36.5 – 0 m³/h
- Delivery head range 0 – 16 m
- Medium temperature max. 40 °C, for a short time 60 °C
- Immersion depth max. 20 m
- Density max. 1100 kg/m³
- pH-value 4 - 8
- Nominal voltage 400 V 3~ / 230 V 1~, 50 Hz
- Nominal current 3.15 A / 9.3 A
- Nominal speed ~ 2900 1/min
- Power P1 1.8 kW / 2.1 kW
- Power P2 1.5 kW
- Degree of protection DIN IP68
- Weight 32 kg (without cable)
- Thread connection R 2" external thread
- Coupling Storz C
- Hose connection Ø 2"

Characteristic curve SÖFFEL* C35



| | | | | | | | | |
|-----------------------|----|-----|------|------|------|-----|-----|------|
| Q [m ³ /h] | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 36.5 |
| Q [l/s] | 0 | 1.4 | 2.8 | 4.2 | 5.6 | 6.9 | 8.3 | 10.1 |
| H [m] | 16 | 15 | 14.2 | 13.2 | 11.7 | 9.3 | 6.1 | 0 |

Dimensions SÖFFEL* C35

