

SMF

motralec

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Single-channel closed impeller



General characteristics

- Single-channel closed impeller
- 0,74 kW ÷ 1,5 kW motor power
- 2 poles
- GAS 2" - DN80 PN10 delivery port
- 48 mm free passage

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) silicon carbide mechanical seals assembled opposing in inspectable oil sump. Ecological dry motor. Separate pump body. Series with explosion-proof certification.

Applications

Designed specifically for operation where there are traces of flammable liquids or in potentially explosive atmospheres, the SMF can be used with soiled liquids containing traces of flammable substances, and in gassy environments.

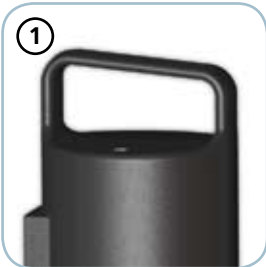
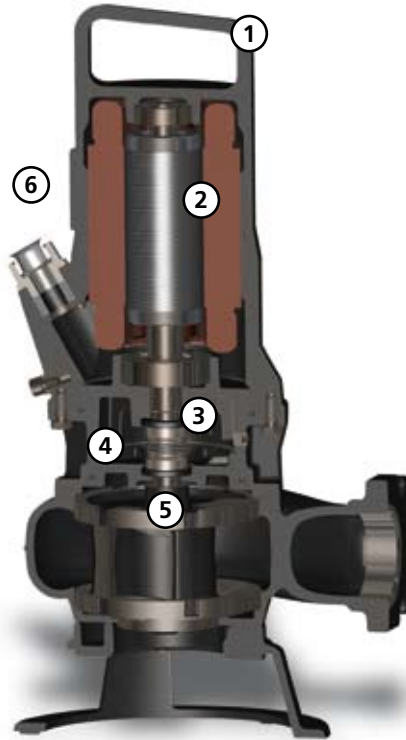
Construction materials

| | |
|---|---|
| Case | Cast Iron EN-GJL 250 |
| Impeller | Cast iron EN-GJL-250 |
| Nuts and bolts | Stainless Steel - Class A2-70 |
| Standard gasket | Rubber - NBR - VITON |
| Shaft | Stainless Steel - AISI 420 |
| Set of standard mechanical seals | Two Silicon carbide mechanical seals (2SiC) |

operating limits

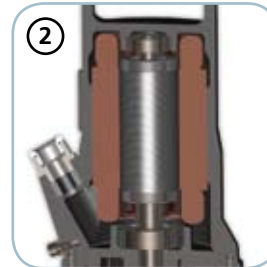
| | |
|--------------------------------------|----------------------|
| Maximum operating temperature | 40 °C |
| PH of treated fluid | 6 to 10 pH |
| Viscosity of treated fluid | 1 mm ² /s |
| Maximum immersion depth | 20 m |
| Density of treated fluid | 1 Kg/dm ³ |
| Maximum acoustic pressure | 70 dB |
| max starts per hour | 20 |

SMF



Handle/Cable gland

Cast iron lifting and carrying handle. The GAS thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the power supply cable



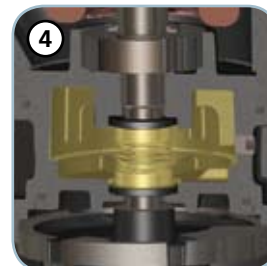
Motor

Ecological dry motor with thermal overloads



Mechanical seals

Two mechanical seals in silicon carbide (2SiC)



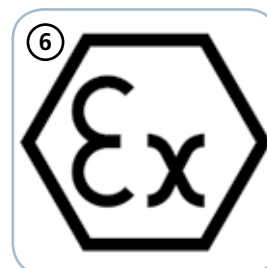
Oil sump

Large oil sump to guarantee longer mechanical seal lifetime



Drive shaft

Impeller connected to the drive shaft by means of tapered coupling



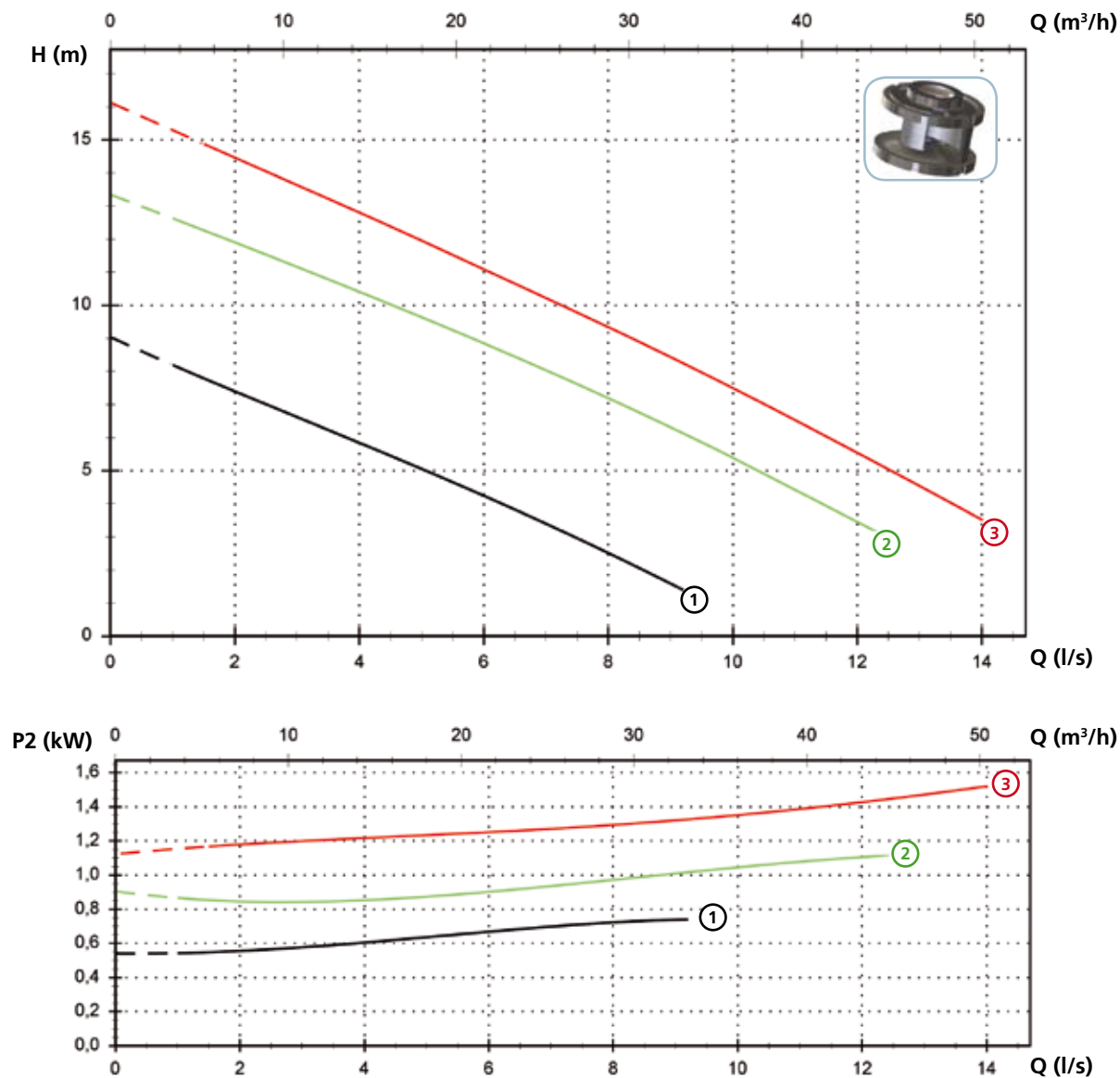
EX

Models with ATEX certification, suitable for installation in the presence of potentially explosive gases, powders and liquids

SMF

Models with horizontal GAS 2" threaded - DN50 PN10 flanged delivery port - 2 poles

Performances



Technical data

| | V | Phases | P1 (kW) | P2 (kW) | A | Rpm | Ø | Cable (*) | Free passage |
|--------------------------|-----|--------|---------|---------|-----|------|----------------|-----------|--------------|
| ① SMF 100/2/G50H A1CM/50 | 230 | 1 | 1.0 | 0.74 | 4.9 | 2900 | G 2"-DN80 PN10 | A | 50 mm |
| ② SMF 150/2/G50H A1CM/50 | 230 | 1 | 1.6 | 1.1 | 7.2 | 2900 | G 2"-DN80 PN10 | A | 50 mm |
| ③ SMF 200/2/G50H A1CM/50 | 230 | 1 | 2.2 | 1.5 | 9.8 | 2900 | G 2"-DN80 PN10 | A | 50 mm |

| | V | Phases | P1 (kW) | P2 (kW) | A | Rpm | Ø | Cable (*) | Free passage |
|--------------------------|-----|--------|---------|---------|-----|------|----------------|-----------|--------------|
| ① SMF 100/2/G50H A1CT/50 | 400 | 3 | 1.1 | 0.74 | 1.9 | 2900 | G 2"-DN80 PN10 | A | 50 mm |
| ② SMF 150/2/G50H A1CT/50 | 400 | 3 | 1.7 | 1.1 | 2.9 | 2900 | G 2"-DN80 PN10 | A | 50 mm |
| ③ SMF 200/2/G50H A1CT/50 | 400 | 3 | 2.1 | 1.5 | 3.7 | 2900 | G 2"-DN80 PN10 | A | 50 mm |

(*) A = NSSHOU-J 4G1.5+2x0.75 - 10 m

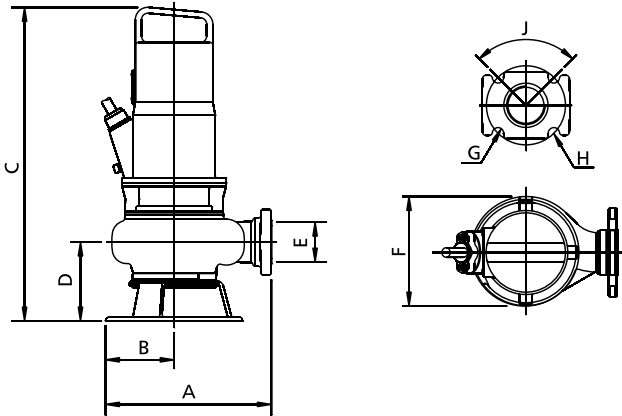
Versions available

(Key to versions on page 15)

| | Electrical variants | | | | | | | | | | | Cooling | | Mechanical seals | | | | |
|------------------------|---------------------|---|-------------|------------------|-----------------------|-------------|------------------|-----------------------|--------|--------|-------------|------------------|---|------------------|------|------|-------|--------|
| | N A E | T | T C D | T C D T | T C D G T | T C G | T C S T | T C S G T | T S | T R | T R G | C G F T | N | CC | 2SIC | SICM | SICAL | 2SICAL |
| SMF 100/2/G50H A1CM/50 | | ● | | | | | | | | | | | ● | | ● | | | |
| SMF 150/2/G50H A1CM/50 | | ● | | | | | | | | | | | ● | | ● | | | |
| SMF 200/2/G50H A1CM/50 | | ● | | | | | | | | | | | ● | | ● | | | |
| SMF 100/2/G50H A1CT/50 | ● | | | | | | | | | | | | ● | | ● | | | |
| SMF 150/2/G50H A1CT/50 | ● | | | | | | | | | | | | ● | | ● | | | |
| SMF 200/2/G50H A1CT/50 | ● | | | | | | | | | | | | ● | | ● | | | |

NOTE: For single phase pumps thermal protections into the winding have to be connected to the electrical panel. Capacitor supplied but not connected to the pump cable. The use of an electrical panel as circuit breaker housing is mandatory. For installation please see use and maintenance instructions booklet.

Overall dimensions and weights

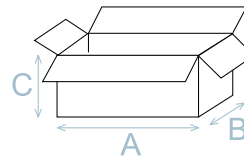


| | A | B | C | D | E | F | G | H | J | kg |
|---------------------------|-----|-----|-----|-----|------|-----|----|-----|-----|----|
| SMF 100/2/G50H A1CM(T)/50 | 255 | 100 | 505 | 130 | G 2" | 205 | 18 | 160 | 90° | 34 |
| SMF 150/2/G50H A1CM(T)/50 | 255 | 100 | 505 | 130 | G 2" | 205 | 18 | 160 | 90° | 35 |
| SMF 200/2/G50H A1CM(T)/50 | 255 | 100 | 505 | 130 | G 2" | 205 | 18 | 160 | 90° | 36 |

Measurements in mm

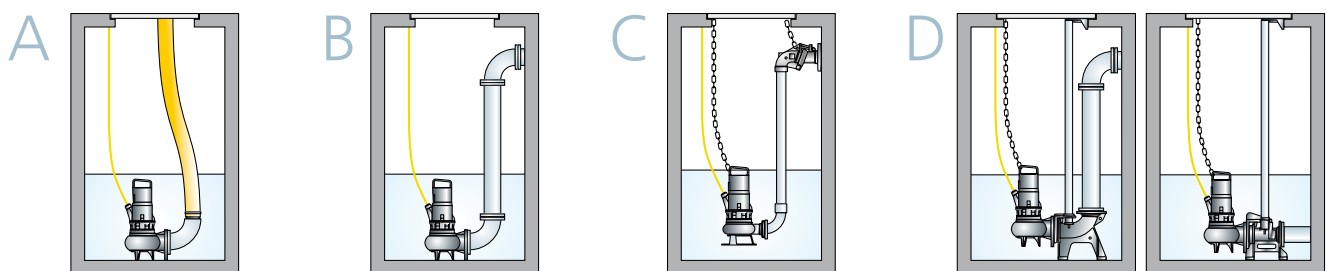
Packaging dimension

| | A | B | C |
|---------------------------|-----|-----|-----|
| SMF 100/2/G50H A1CM(T)/50 | 580 | 310 | 310 |
| SMF 150/2/G50H A1CM(T)/50 | 580 | 310 | 310 |
| SMF 200/2/G50H A1CM(T)/50 | 580 | 310 | 310 |



Dimension in mm

Installations available



Dry installation available for specified models. Contact Custome Service for more information.

