Gillain & Co
HYGIENIC EQUIPMENT FOR FOOD & LIFE SCIENCES

# The Low Capacity Pump

## FM-OS Centrifugal Pump

### Application
Centrifugal pump FM-OS is designed for use in food, pharmaceutical, chemical and other industries where acid-resistant steel is resistant to the products to be pumped.

### Standard design
All product wetted parts, ie. pump casing, impeller and pump shaft, are made of acid-resistant steel 1.4404 (316L). Screws, yoke and nuts are made of stainless steel 1.4301 (304). Seals are made of Nitrile (NBR).

### Shaft seal
Mechanical single or flushed seal with stationary seal ring of acid-resistant steel AISI 329 with sealing surface of silicon carbid and with rotating seal ring of carbon.

### Technical data
Max. inlet pressure: . . . . . .400kPa (4 bar).
Max. outlet pressure: . . . . . .700kPa (7 bar).
Temperature range: . . . . . .-10°C to +140°C (EPDM).
Max. water pressure, (flushed seal): . . .Normally atmospheric (max. 1 bar).

Water consumption, (flushed seal): . . . .0.25 - 0.5 l/min.
Impeller diamete: . . . . . .115 mm.
Weight: . . . . . .20 kg.

### Motor
Standard foot-flanged motor acc. to IEC metric standard, 2 pol = 3000/3600 rpm. at 50/60 Hz, IP55 (with drain holes with labyrinth plug), insulation class F.

### Voltage and frequency
3~,50 Hz,220-240VΔ/380-420VY
3~,60 Hz.250-280VΔ/440-480VY

### Motor size
**50 Hz:** 1.1 kW.
**60 Hz:** 1.3 kW.



Fig. 1. FM-OS Centrifugal Pump

### Volumetric flow

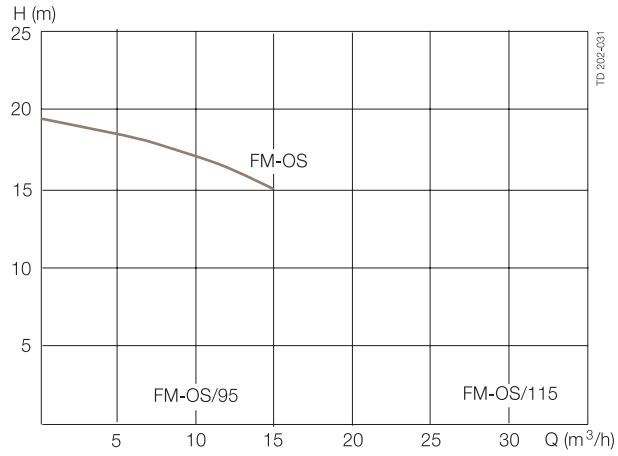
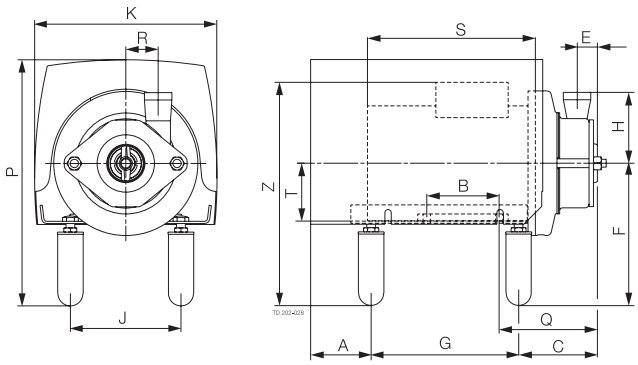



Fig. 2. Flow chart.

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## Dimensions (mm), Sanitary version




## Connections (mm)

Inlet and outlet: 51 mm (2")

### Sanitary version

| Dim. | ISO clamp | ISO male | DIN male | SMS male | BS male |
|---|---|---|---|---|---|
| $M^{I}$ | 21 | 21 | 22 | 20 | 22 |
| $M^{II}$ | 21 | 21 | 22 | 20 | 22 |

## NOTE!

For further details, see also instruction IM 70344.

Inlet and outlet: 51 mm (2")

| Sanitary version motor | |
|---|---|
| **Size** | **1.1 kW** |
| A | 84 |
| B | 100 |
| C | 113 |
| E | 28 |
| F min. | 201 |
| F max. | 231 |
| G | 204 |
| H | 98 |
| J | 153 |
| K | 252 |
| P min. | 345 |
| P max. | 375 |
| Q | 136 |
| R | 45 |
| S | 232 |
| Z min. | 313 |
| Z max. | 343 |
| Weight (kg) | 22 |

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## Options

A. Impeller with reduced diameter.
B. Flushed shaft seal.
C. Other voltage, frequency or flameproof motor.
D. Inlet and outlet with flanges.
E. Counter flanges, collars and seal rings.
F. Product wetted seals of EPDM, Fluorinated Rubber (FPM) or Teflon (PTFE).
G. Rotating seal ring of Silicon Carbide.

## Ordering

Please state the following when ordering:

- Pump type.
- Voltage and frequency.
- Flow rate, pressure and temperature.
- Density and viscosity of product.
- Options.

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The information contained herein is correct at the time of issue, but may be subject to change without prior notice.

**How to contact Alfa Laval**
Contact details for all countries are continually updated on our website. Please visit www.alfalaval.com to access the information direct.