

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 carbide 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 diameter, FM-OS/95:	95mm.
Impeller diameter, FM-OS/115:	115mm.
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

50Hz:	1.1 kW.
60Hz:	1.3 kW.



Fig. 1. FM-OS Centrifugal Pump.

Volumetric flow

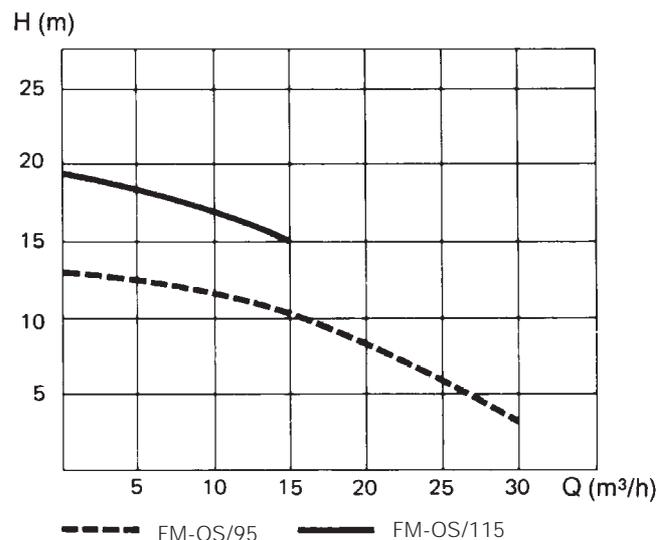
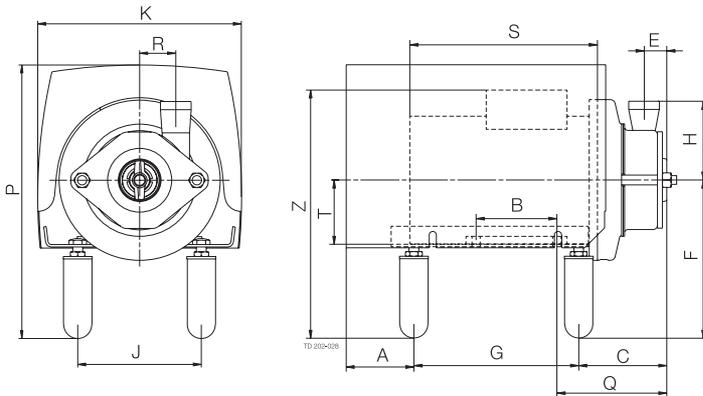


Fig. 2. Flow chart.

Dimensions (mm), 900149/0

Sanitary version



Sanitary version ABB-motor	
Size	1.1kW
A	84
B	100
C	109
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

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 PD 65036, PD 65006 and instruction IM 70344.

Options

- A) Impeller with reduced diameter.
- B) Flushed shaft seal.
- C) Other voltage, frequency or flame-proof 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.