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Flowmaster®

Ideal for heavy-duty processes

The most convincing solution for fluid transfer in biotechnology, as well as pharmaceutical, food and beverage industries

- Ideal for dispensing and filling applications in a dusty, humid or corrosive environment and in clean room areas
- Convex rollers treat the liquid and tubing gently
- Protection rating of IP 65



Flowmaster FMT300

37 ml/min – 13 l/min

- 1 channel
- 3 convex stainless steel rollers
- Automatic tube retention
- Standard tubing 6.4 to 15.9 mm i.d., wall thickness 3.2 mm, differential pressure max. 2 bar (depends on tubing material used)

Safety

- Pump stops when opening the tube-bed
- Multiple overload protection



Optimized for increased hygienic requirements

- Stainless steel housing
- Tube-loading under sterile conditions without aspirating air
- **Easy disassembly of the pump-head**
Thorough cleaning thanks to easy and rapid disassembly and reassembly in less than a minute.

Specifications

Motor type	DC motor
Speed	5 to 500 rpm
Speed setting	resolution 0.1 rpm membrane key-pad, LED display
Power consumption	500 W
Mains connection	230V _{AC} /50Hz, 115V _{AC} /60Hz adjustable
Protection rating	IP 65
Depth/Width/Height	500x220x262 mm
Weight	26 kg

flowmaster®

Tube exchange
in **5** seconds



- Insert the tube (easily and fast)
- Press down the lever (automatically correct pressure setting of the tube)
- Start the pump!

Flow rates / Tubing

Tubing Information				Flow rates in liters/min							
Tygon® LFL	PharMed®	Wall (mm)	Tubing i.d. (mm)	rpm 5	rpm 10	rpm 50	rpm 100	rpm 200	rpm 300	rpm 400	rpm 500
Order No.	Order No.										
SC0531	MF0015	3.2	6.4	0.037	0.074	0.37	0.74	1.5	2.2	3.1	3.7
SC0395	MF0016	3.2	9.5	0.08	0.16	0.80	1.6	3.2	4.8	6.4	8.0
SC0396	MF0034	3.2	12.7	0.10	0.20	1.0	2.0	4.0	6.0	8.0	10.0
	SC0696	3.2	15.9	0.13	0.26	1.3	2.6	5.2	7.8	10.4	13.0

Approx. values: determined with water, at 22°C, no differential pressure, PharMed tubing

Ordering information

Model	Order No.	Flow rates ml/min	Channels max.	Rollers	Speed rpm
Flowmaster FMT300 230V _{AC} / 50 Hz	ISM 1020	37 – 13'000	1	3	5–500
Flowmaster FMT300 115V _{AC} / 50 Hz	ISM 1022	37 – 13'000	1	3	5–500

Accessories

Foot switch (Page 61) IS 10279

PLC compatible interface
with status information for process control
systems (the level of the inputs can be
configured: 5, 12 or 24 V)



- Speed control (0–5 or 0–10V, 0–20 or 4–20mA)
- Start/Stop, Rotation direction
- Autostart
- Speed output
- Digital output (potential free) (Error, okay, busy)

Settings menu

- Configuration of analog interface
- Entry of basic settings, e.g.
 - Foot switch control
 - Rotation speed (% or rpm)
 - Service life of tubing
- **Timer function, etc.**



Suited for:

1-channel delivery processes with large flow rates in clean room areas or a dusty, humid or wet environment.

Applications

Filling of large volumes of pharmaceutical solution from a seed reactor to bulk vessels under sterile conditions.

Tubing for aggressive media, see Page 35.