



FM 40

- High chemical resistance
- Compact, flat design
- With fine adjustment needle valve
- With integrated tube connections DN 4/6

Flowmeter series FM[®]

Version FM40 for front panel mounting

Application

The compact, flat, corrosion resistant **FM40** flowmeter for front panel mounting is used for flow control of gas media in analysis devices and systems.

Description

The **M&C FM40** flowmeter consists of a vertical, internally conical glass tube widening towards the top in which a float can move freely upwards and downwards and of the head and bottom piece with an integrated PVDF needle valve. A "front panel" of a maximum 4 mm thickness with two appropriate mounting bore holes serves as base body for attaching the head and the bottom part.

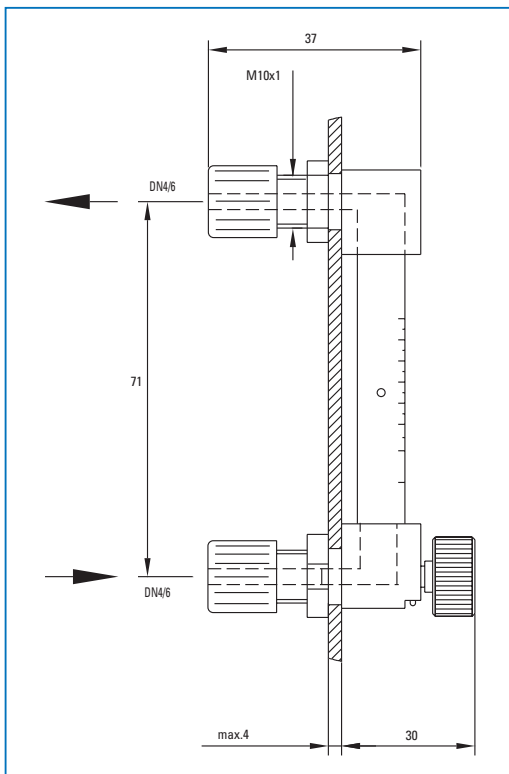
The sample gas flows upwards through the tube and thus lifts the float until a radial clearance occurs between the tube wall and the float so that forces effecting the body are in equilibrium. Thus every position of the float (depending on measuring range out of glass or Hastelloy C) corresponds to a certain flow which can be read on a calibrated scale.

The measuring tube is sealed within the head and bottompart with FPM o-rings, as is the fine adjustment needle valve.

All parts coming into contact with the gas medium are made of PVDF, FPM and glass. The flowmeter is fitted with a fine adjustment valve in the inlet for precise flow value setting. In addition, the optical monitoring unit **FA1bi** is supplied for automatic flow alarm monitoring. – See separate data sheets 5-6.10.1 / 5-6.10.2. –

Dimensions

Flowmeter FM 40



Dimensions in mm

Technical Data

Flowmeter	FM 40
Measuring-range calibrated at 1 bar abs., 20 °C	7-70 l/hr air, Part No: 09F4000 15-150 l/hr air, Part No: 09F4005 25-250 l/hr air, Part No: 09F4010 50-500 l/hr air, Part No: 09F4015
Measuring range width	10:1
Accuracy class	6 %
Scale	calibrated in l/hr
Scale length	approx. 30 mm
Pressure max.	3 bar abs.
Temperature max.	60 °C
Connections	Tube connectors DN 4/6 mm
Material used for parts in contact with medium	PVDF, glass, FPM