



Measuring tube und float

## Measuring tube and float

The measuring tubes used are made of Duran® glass and comply with precision class 2.5 in accordance with VDI/VDE 3513. Duran® glass has a high corrosion resistance for almost all measured media with the exception of hot concentrated alkalis or hydrofluoric acid. The high boron trioxide content provides high resistance to temperature fluctuations. The linear coefficient of expansion is only  $3.2 \times 10^{-6} \text{ m/1}^\circ\text{C}$ . Depending on the diameter of the measuring tube and the task, floats made of PTFE or PVDF with a soft iron core or magnet are preferably used. This has the advantage that the measurements can be read and transmitted. If the operating conditions make it necessary, it is also possible to use other materials, e.g., glass, stainless steel, Mu metal.

## Special measuring tube – for your measuring range

There are applications in which a standard product cannot be used as the measuring tube. In these cases we will be pleased to supply flow meters with special measuring tubes manufactured especially to suit your requirements and to your specification. There are appropriately calibrated by our specialists. For these individually manufactured parts, we require detailed information on the media, pressure, temperature, measuring range, density and viscosity (see Inquiry Form).

Send us your specifications. Based on this information, our specialists will assemble the optimal flow meter for your requirements and send you a no obligation quotation.



Regulation valve

## The regulation valve

EM-TECHNIK flow meters are supplied as standard with a precision metering valve (except 4M). The flow rate characteristic of the valve is chosen to suit the respective flow rate. If required, a design without a valve is also possible.

## Materials

Depending on the type, the flow meters are available in PP, PVDF, PTFE or PFA. You will find detailed information on the related product pages. The O-rings used as standard are made of FPM and can also be replaced by EPDM or FFKM for special designs. You will find a detailed description of the material properties under Technical Information.

## Precision class in accordance with VDI/VDE 3513

Measuring tube Ø x length	Class	% of full scale value min/max
10 x 75	4	1,3 - 4
10 x 150	2,5	0,8 - 2,5
17 x 75	4	1,3 - 4
17 x 150	2,5	0,8 - 2,5
28 x 150	2,5	0,8 - 2,5