## HIGH PRECISION MEASURING TUBE

Complete metering tube for an easy on-site installation and for a highly accurate flow measurement

## **GENERAL DATA**

- Standards: ISO 5167-1&2, ASME MFC-3M or ISO/TR 15377
- Mounting of the primary element between flanges<sup>(1)</sup>:
  - o ISO PN 2.5 to 420
  - o ASME 150# to 2500#
  - o Others: upon request
- Weld-end (BW) or flanged connection(1)
- Material:
  - o Standard: stainless steel 304L / 316L
  - o Others<sup>(1)</sup>: according to your application
- Fluid: liquid, gas, steam
- Pipes from φ 25 to 300 mm (for easy assembling)
- Overall measurement accuracy  $\leq$  1 %
- Repeatability of measurement: 0.1 %



taps<sup>(1)</sup>

MARK	DESIGNATION	MARK	DESIGNATION
1	Flat flange	7	Gasket
2	Upstream pipe	8	Orifice plate**
3	Differential pressure transmitter	9	Bolts
4	Manifold	10	Downstream pipe
5	Connecting tube	11	Nipple
6	Annular chamber*	12	Temperature sensor

\* flange mounting also possible

\*\* all types of orifice plates (as well as nozzles) can be mounted in a metering tube



## TECHNICAL CHARACTERISTICS - according to the primary element considered

Orifice plates	See corresponding technical datasheet	p 10 to 15
Nozzles		p 19 to 20
Upstream and downstream straight lengths, pipe roughness and circularity, centering of the measuring element <sup>(1)</sup>		

## ACCESSORIES

Temperature sensor	Sensor mounted on the downstream pipe	p 41
Multivariable differential pressure transmitter <sup>(2)</sup>	This transmitter enables the correction of density of gases as a function of temperature and pressure	p 52

<sup>(1)</sup> For more details, see «Technical information» section on page 54.

