Measuring Tubes FA·Di 9.7GE...240 °C

FA·Di 9.7 G E- mc20T/240/p10/Ex ZG...

Sensor

Meas. tube inside Ø Di in mm

Medium
G = air/gases

Material
E =stainless steel

Type of vane wheel, meas. range

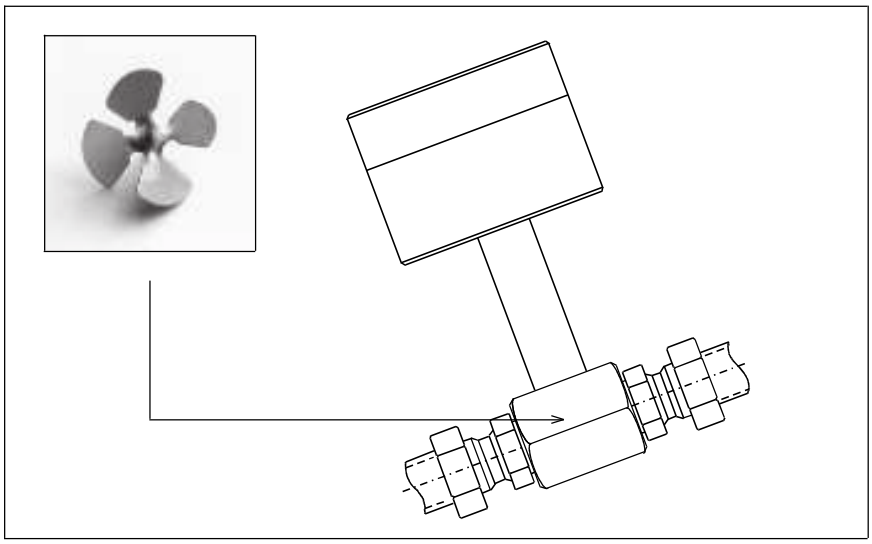
Vane wheel material...
T = titanium

Working temperature range

Working pressure above atmospheric

Protective system

Design as drawing ZG...



The following applies to all measuring tubes as in drawings7a, 8a and 9a
FA Di 9.7 G E-mc...T/ 240 / p10 ZG... :

Measuring ranges v_{local} with vane wheel type
mc20T G: 0.6 ...20 m/s
mc40T G: 0.8 ...40 m/s

With developed flow profile, irrotational flow, the relation $v_{mean} = PF \cdot v_{local}$ with the profile factor PF = 0.66:
1 m/s $_{local}$ ≅ 0.66 m/s $_{mean}$
1 m/s $_{local}$ ≅ 2.93 actual l/min

Working temperature range: -20 °C ... +240 °C
Working pressure : up to 10 bar/1 MPa
Materials which come into contact with the medium
E : stainless steel, titanium, ceramics, sintered hard metal, VITON

Fitting attitude : as required
Connection : terminal screws
Connection housing : AS80, L·W·H = 80·80·60 mm for 0 °C ... +50 °C
Screwed cable glands : PG11, for cable with Ø 5...10 mm
Protective system : sensor IP68 connection housing IP65

For measuring tubes as in drawing 6a
FA Di 9.7 GE - mn... / 200 / p10 ZG6a
the same specifications as for measuring tubes FA Di 9.7 GE - mn... / 240 / p10 ZG7a ... ZG9a apply, however working temperature range pipe fitting with
TEFLON seal : -20 °C ... +200 °C
working temperature otherwise
continuois : -20 °C ... +240 °C

Other models
Ex ia IIC T6, Measuring range up to 80 m/s or 120 m/s ... on request

User's Information
for measuring with vane wheel flow sensors, see also Data Sheet FA.

Standard: output v/FA, **optional** with **integrated transducer** / 24 VDC / AS80
Output: 4...20 mA= 0...terminal value G in m/s

Measuring tube as drawing ZG ...	**Type of vane wheel**	**Meas. range G** in actual l/min ≈ ...	**Installation length L** total ≈ ... mm	**Input/output** section in mm b = by customer	**Pipe connection** V = screwed conn. SRV= cutting ring V	**Article no.**
FA·Di 9.7... ZG6a	mc20T	1.8 ... 58,6	350	200/100	PipeV G 3/8"	b001/221
FA·Di 9.7... ZG6a	mc40T	2.4 ... 117,2	350	200/100	PipeV G 3/8"	b001/222
FA·Di 9.7... ZG7a	mc20T	1.8 ... 58,6	350	200/100	inside thread G 3/8"	b001/223
FA·Di 9.7... ZG7a	mc40T	2.4 ... 117,2	350	200/100	inside thread G 3/8"	b001/224
FA·Di 9.7... ZG9a	mc20T	1.8 ... 58,6	38+SRV	b: 200/100	SRV for pipes 12·1	b001/225
FA·Di 9.7... ZG9a	mc40T	2.4 ... 117,2	38+SRV	b: 200/100	SRV for pipes 12·1	b001/226
FA·Di 9.7... ZG8a	mc20T	1.8 ... 58,6	350	200/100	Pipes oØ 16 mm [1]	b001/227
FA·Di 9.7... ZG8a	mc40T	2.4 ... 117,2	350	200/100	Pipes oØ 16 mm [1]	b001/228

[1] oØ = outside diameter

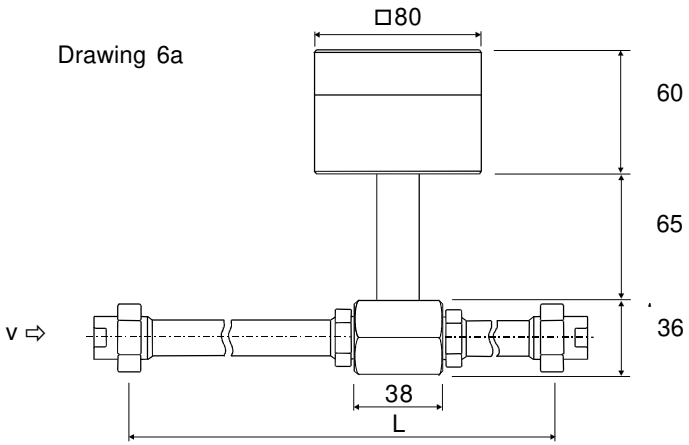
When ordering a measuring tube with output v/FA please name the accompanying flow evaluation unit

U215_FADi97GE240_D_e_100703

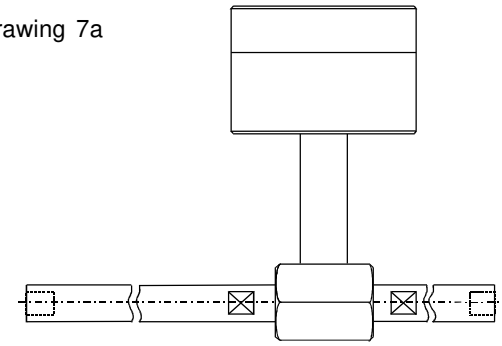
höntzsch
flow measuring technology

Designs of Measuring Tubes FA·Di 9.7GE...240 °C

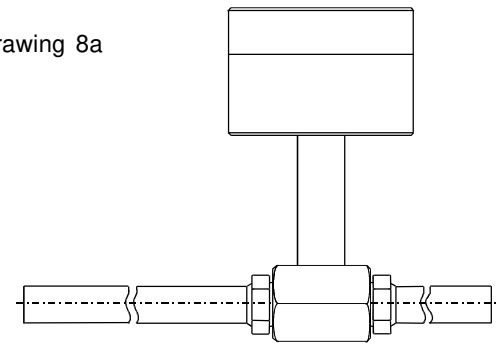
Drawing 6a



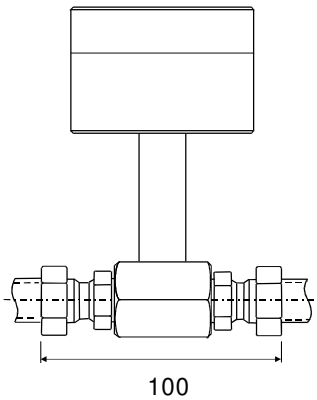
Drawing 7a



Drawing 8a



Drawing 9a



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