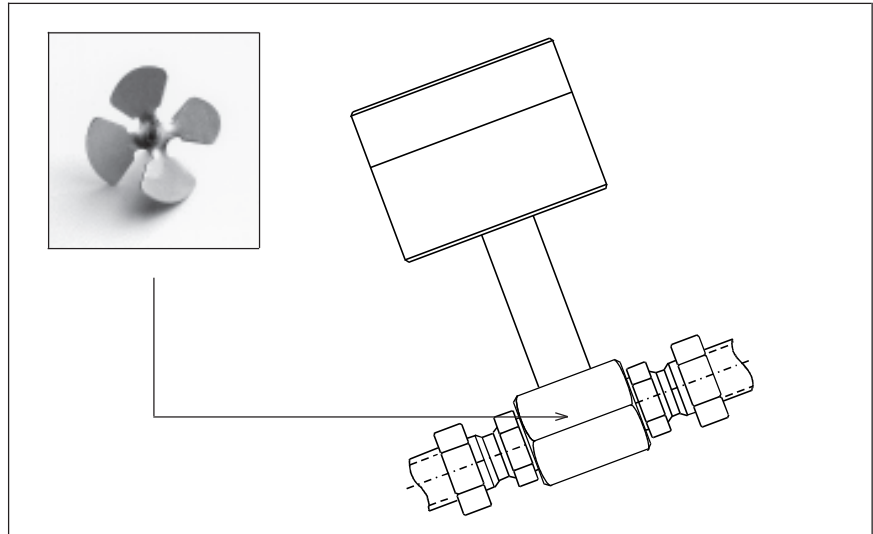


## Measuring Tubes FA·Di 9.7GE...240 °C

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 drawings 7a, 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 <sub>local</sub>	≅ 0.66 m/s <sub>mean</sub>
1 m/s <sub>local</sub>	≅ 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

### 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.

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

continuous : -20 °C ... +240 °C

**Standard:** output v/FA, optional with **integrated transducer** / 24 VDC / AS80

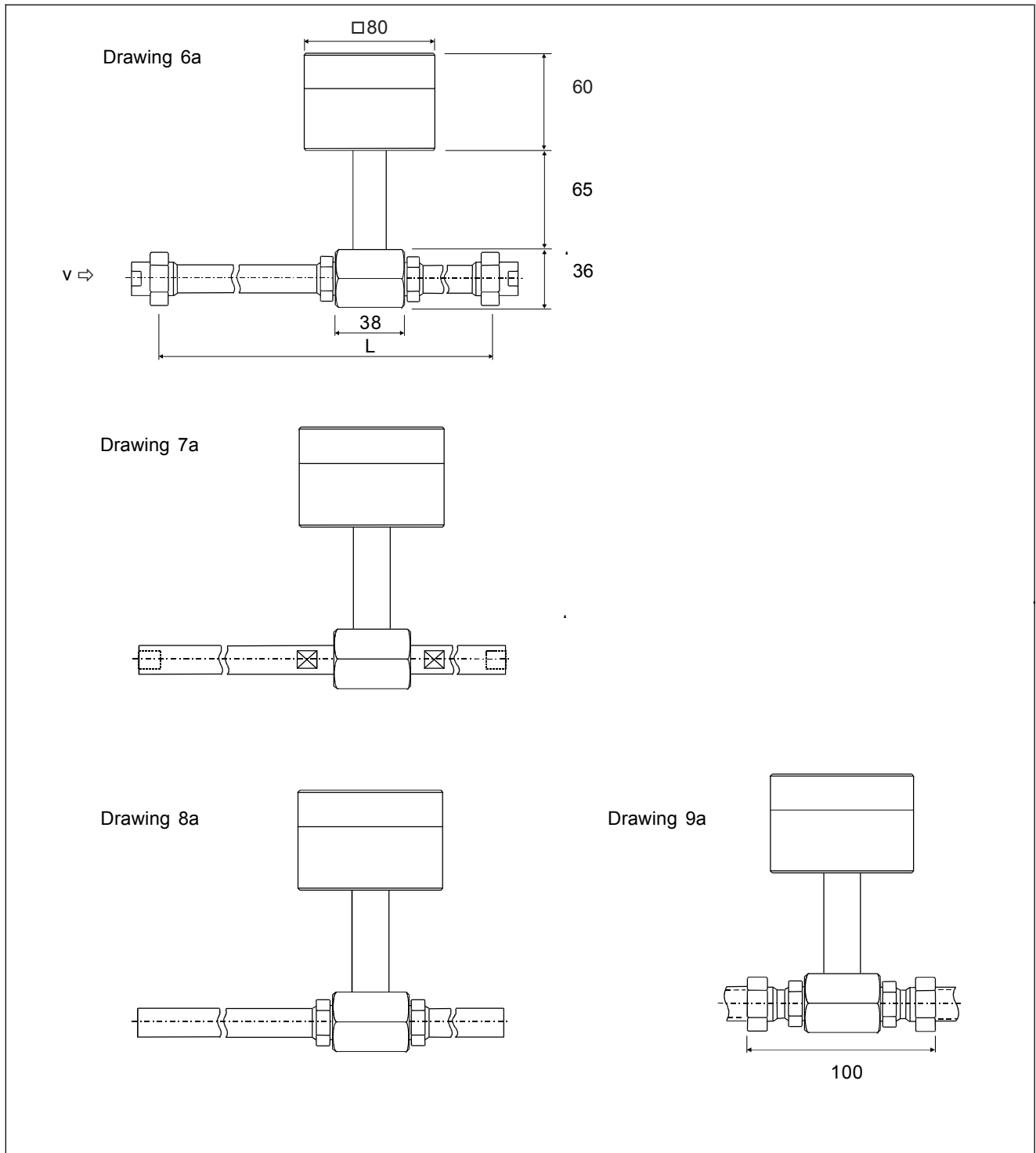
Output: 4...20 mA = 0...terminal value G in m/s

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 <sup>1)</sup>	b001/227
FA·Di 9.7... ZG8a	mc40T	2.4 ... 117,2	350	200/100	Pipes oØ 16 mm <sup>1)</sup>	b001/228

<sup>1)</sup> oØ = outside diameter

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

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



**Höntzsch GmbH**  
P.O. Box 1324 D-71303 Waiblingen  
Gottlieb-Daimler-Straße 37  
D-71334 Waiblingen (Hegnach)  
Telephone 07151/1716-0  
Facsimile 07151/58402