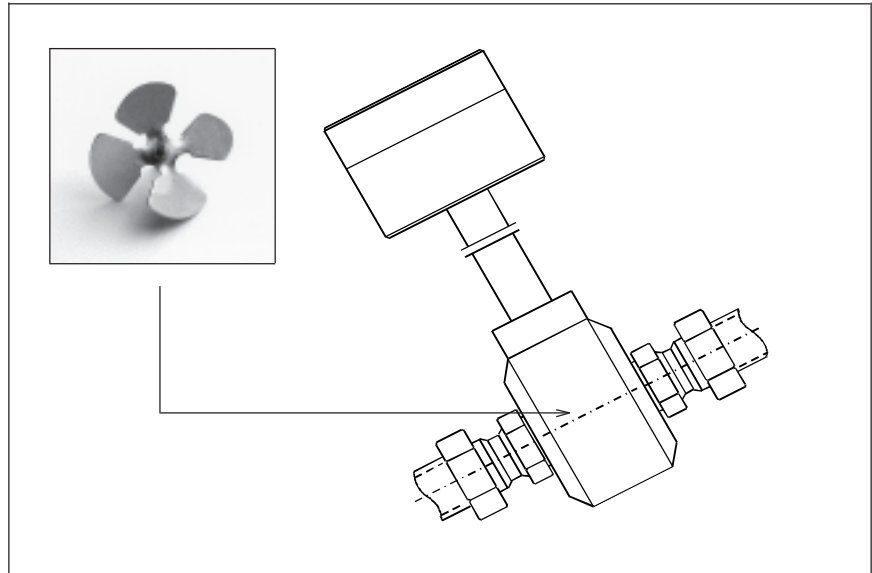
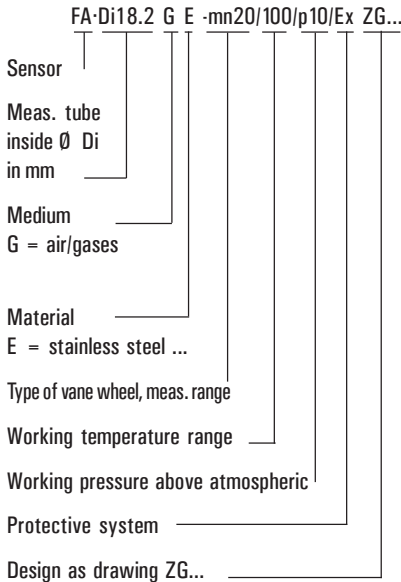


## Measuring Tubes FA·Di 18.2 GE...100 °C



The following applies to all measuring tubes  
**FA Di 18.2 GE - mn... / 100 / p10:**

Measuring ranges  $v_{local}$  with vane wheel type  
 mn20 G: 0.4 ...20 m/s  
 mn40 G: 0.5 ...40 m/s  
 vane wheel made of stainless steel

With developed flow profile, irrotational flow,  
the relation

$$v_{mean} = PF \cdot v_{local}$$

with the profile factor PF = 0.84:

$$1 \text{ m/s}_{local} \cong 0.84 \text{ m/s}_{mean}$$

$$1 \text{ m/s}_{local} \cong 13.11 \text{ actual l/min}$$

Working temperature range

continuous : -20 °C ... +100 °C  
 short-time : -25 °C ... +125 °C

Working pressure : up to 10 bar/1 MPa

Materials which come into contact with the medium

E : stainless steel, ceramics, 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.

**Standard:** output v/FA, **optional** with

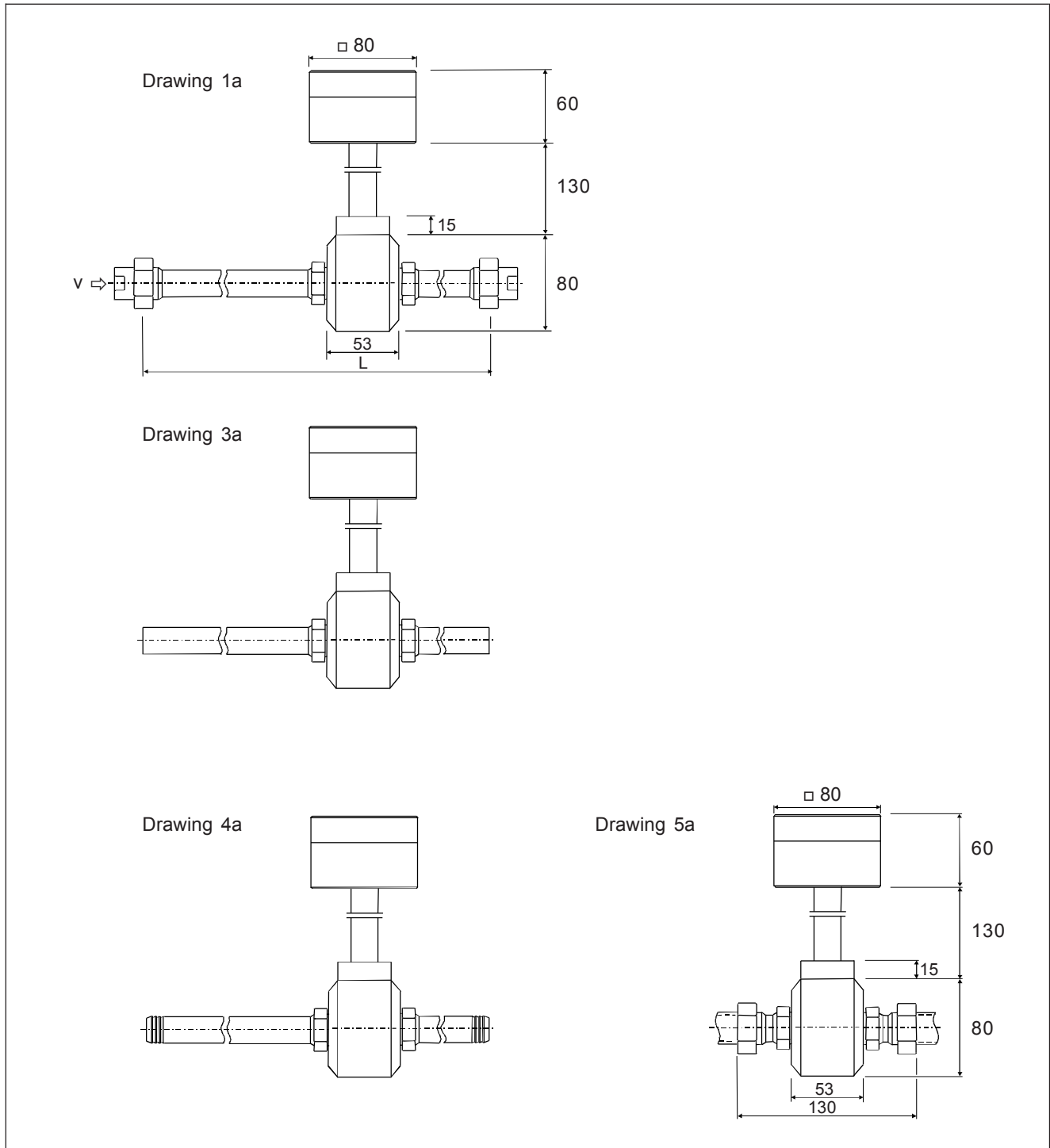
**integrated transducer** / 24 VDC / AS80

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 18.2... ZG5a               | mn20               | 5.3 ... 262                         | 53+SRV                               | b: 360/180                                 | SRV for pipes 22-2                                     | b001/160    |
| FA·Di 18.2... ZG5a               | mn40               | 6.6 ... 524                         | 53+SRV                               | b: 360/180                                 | SRV for pipes 22-2                                     | b001/161    |
| FA·Di 18.2... ZG1a               | mn20               | 5.3 ... 262                         | 579                                  | 360/180                                    | PipeV G 1/2"   | b001/162    |
| FA·Di 18.2... ZG1a               | mn40               | 6.6 ... 524                         | 579                                  | 360/180                                    | PipeV G 1/2"   | b001/163    |
| FA·Di 18.2... ZG4a               | mn20               | 5.3 ... 262                         | 580                                  | 360/180                                    | Hose grooves <sup>1)</sup>                             | b001/164    |
| FA·Di 18.2... ZG4a               | mn40               | 6.6 ... 524                         | 580                                  | 360/180                                    | Hose grooves <sup>1)</sup>                             | b001/165    |
| FA·Di 18.2... ZG3a               | mn20               | 5.3 ... 262                         | 580                                  | 360/180                                    | Pipes ø 22 mm <sup>2)</sup>                            | b001/166    |
| FA·Di 18.2... ZG3a               | mn40               | 6.6 ... 524                         | 580                                  | 360/180                                    | Pipes ø 22 mm <sup>2)</sup>                            | b001/167    |

<sup>1)</sup> suitable for hoses with inside Ø 20-22 mm <sup>2)</sup> øØ = outside diameter

## Designs of Measuring Tubes FA·Di18.2GE...100 °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