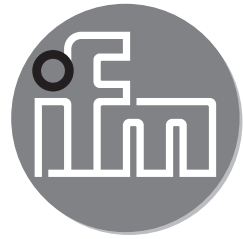


ifm electronic



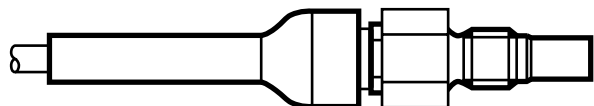
Operating instructions /
Mounting instructions
Flow sensor

efector300[®]

SF*A**

UK

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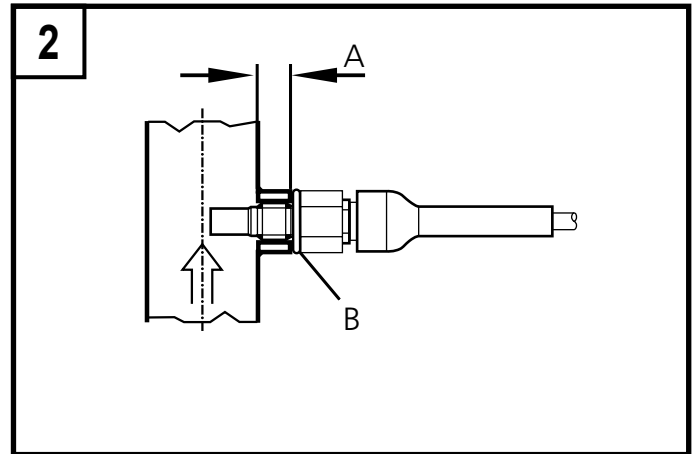
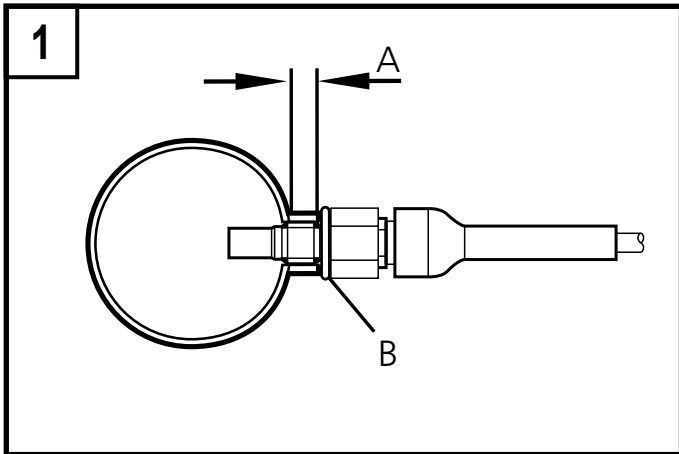


Before installation, read the safety-related section of the operating instructions, enclosed separately!

1 Installation

The sensor tip must be completely immersed in the medium.

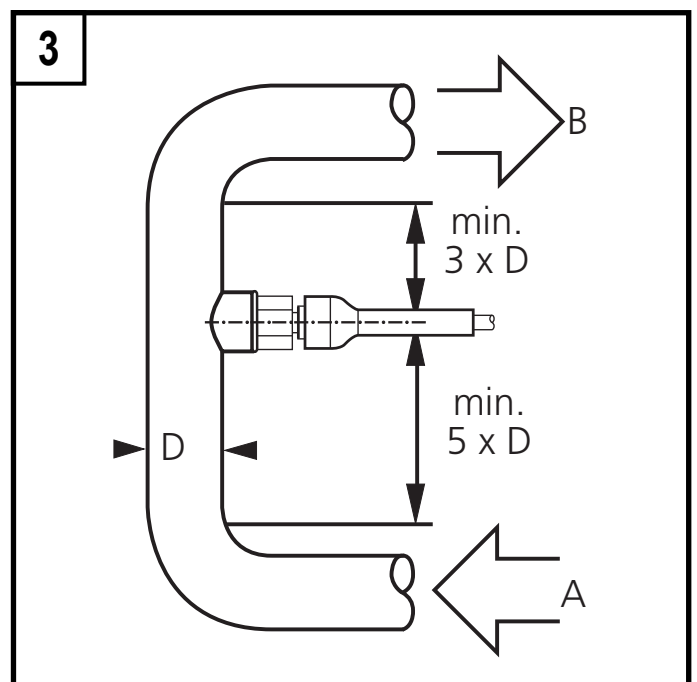
- In the case of horizontal pipes mount the unit from the side, if possible (fig. 1).
 - When the unit is to be mounted at the bottom of the pipe, it should be free from deposits.
 - When the unit is to be mounted at the top of the pipe, it should be completely filled with the medium to be monitored.
- In the case of vertical pipes mount the unit in a place where the medium flows upwards (fig. 2).



A: mounting bush (15 mm for units with M12 x 1 and G $\frac{1}{4}$ thread; 33 mm for units with G $\frac{1}{2}$ thread).

B: packing washer

To avoid malfunction a minimum distance between the flow monitor and bends, valves or such like must be observed (fig 3). Min. 5 x pipe diameter upstream (A), min. 3 x pipe diameter downstream (B).



2 Ceramic units

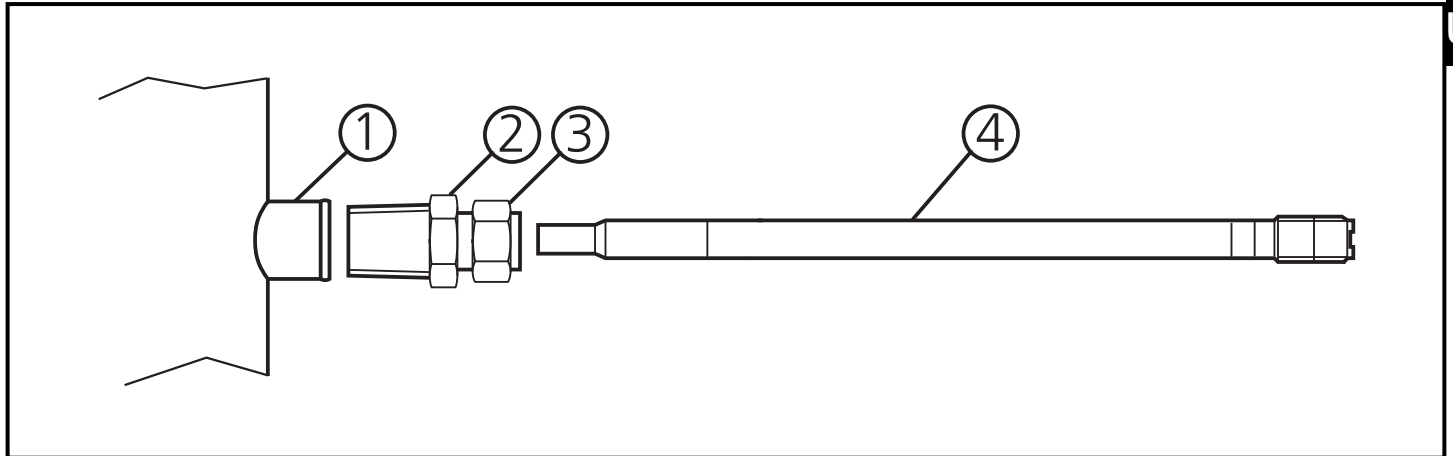
Max. tightening torque: 8Nm for units with G $\frac{1}{4}$ thread; 30Nm for units with G $\frac{1}{2}$ thread.



The thread of the mounting bush must be clean, undamaged and comply with the standard (pipe thread to DIN ISO 228).

For sealing only use flat seals.

3 Flow sensor SF620A



- ▶ Screw the clamp adapter (2) onto the process fitting (1).
- ▶ Insert the flow sensor (4) into the adapter.
- ▶ Set the requested installation length.
- ▶ Tighten the nut (3) (follow the instructions included with the clamp adapter).

Recommended insertion depth of the sensor: 20 ... 30 mm in the pipe. Min. 12 mm, max. to mid pipe.

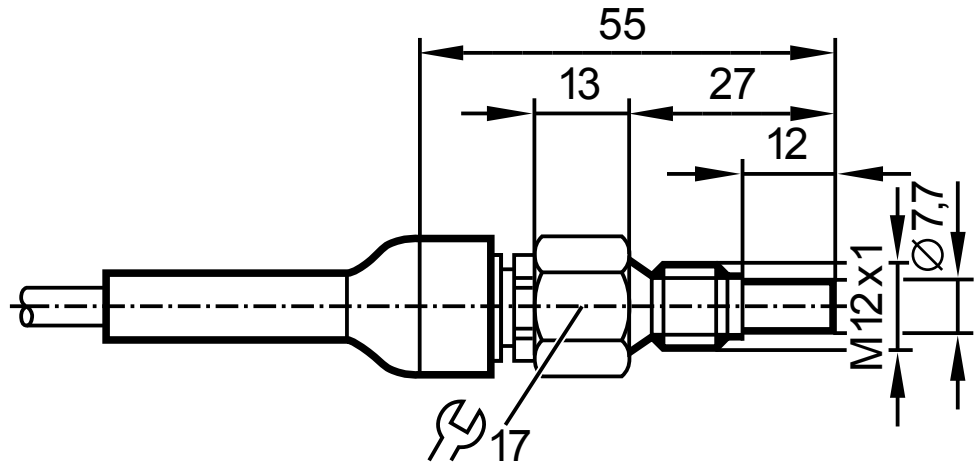
Note: The sensor tip must not touch the pipe wall.

4 Scale drawings

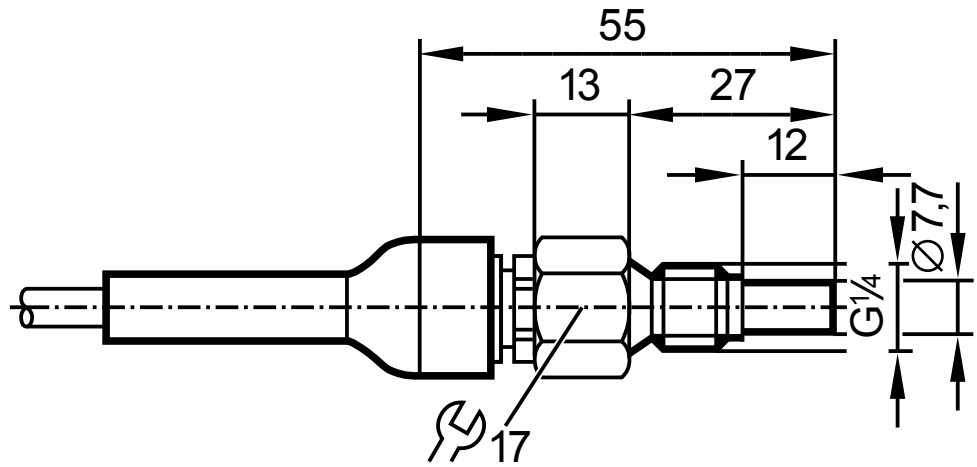
Category 1/2G	
SF111A	<p>Technical drawing of SF111A scale drawing. The drawing shows a side view of a mechanical component with a central shaft and a handle. The total length is 55. The distance from the handle to the start of the shaft is 13. The distance from the start of the shaft to the end of the shaft is 27. The distance from the end of the shaft to the end of the handle is 12. The shaft has a diameter of $\text{Ø}8,2$ and a thread of $\text{M}12 \times 1$. A wrench symbol with the number 17 is shown below the drawing.</p>
SF211A	<p>Technical drawing of SF211A scale drawing. The drawing shows a side view of a mechanical component with a central shaft and a handle. The total length is 55. The distance from the handle to the start of the shaft is 13. The distance from the start of the shaft to the end of the shaft is 27. The distance from the end of the shaft to the end of the handle is 12. The shaft has a diameter of $\text{Ø}8,2$ and a thread of $\text{G}1/4$. A wrench symbol with the number 17 is shown below the drawing.</p>
SF311A	<p>Technical drawing of SF311A scale drawing. The drawing shows a side view of a mechanical component with a central shaft and a handle. The total length is 75. The distance from the handle to the start of the shaft is 15. The distance from the start of the shaft to the end of the shaft is 45. The distance from the end of the shaft to the end of the handle is 12. The shaft has a diameter of $\text{Ø}8,2$ and a thread of $\text{G}1/2$. A wrench symbol with the number 27 is shown below the drawing.</p>

Category 2G / Cable

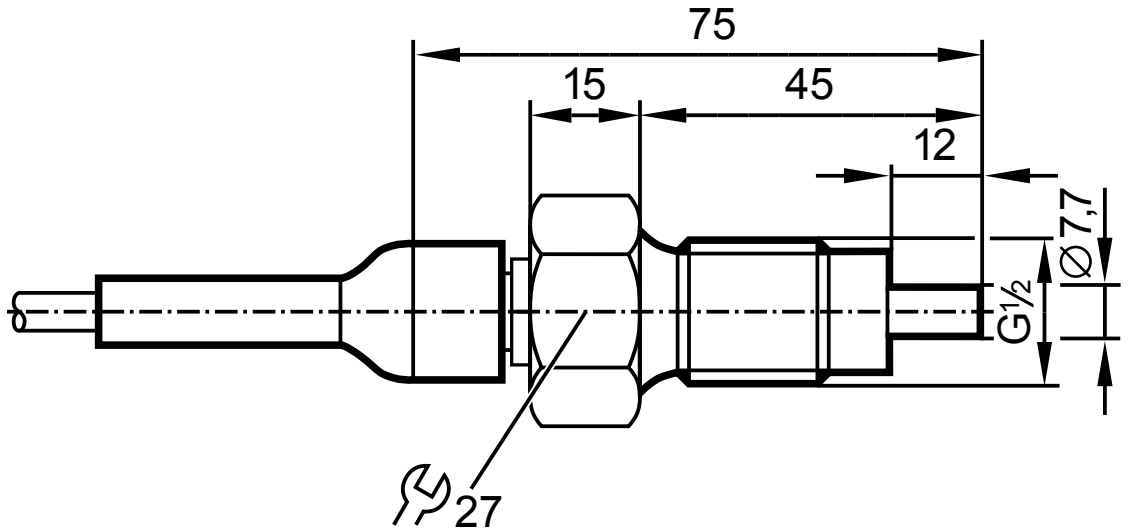
SF121A



SF221A



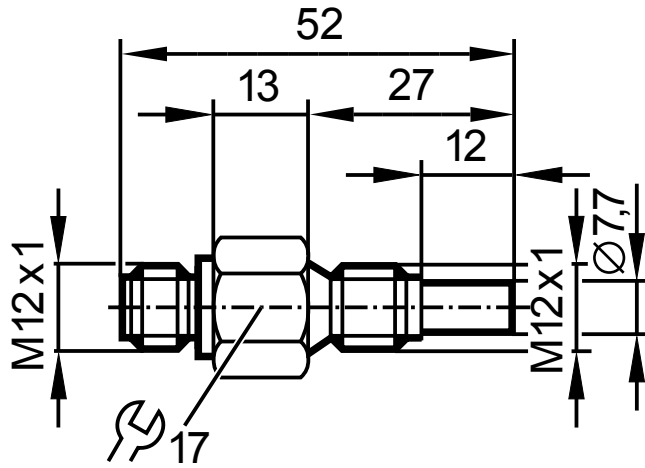
SF321A



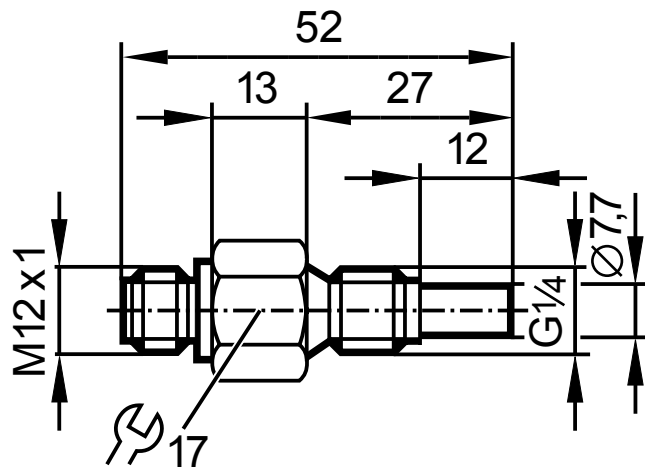
UK

Category 2G / Plug

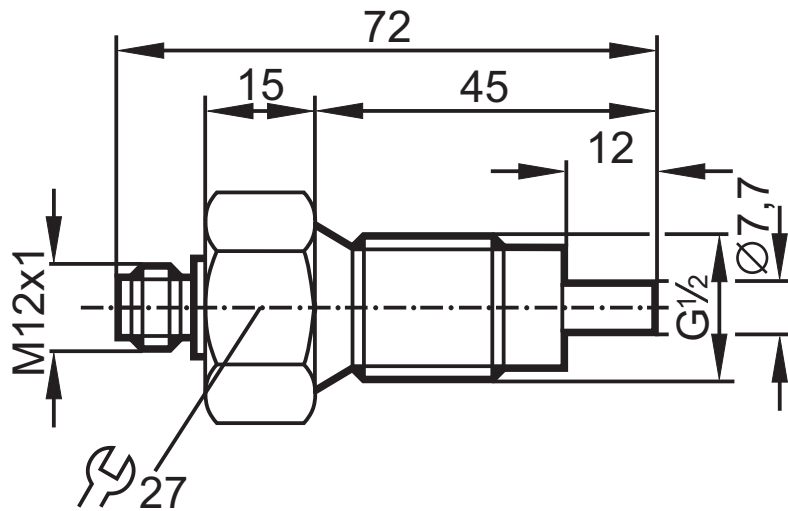
SF120A



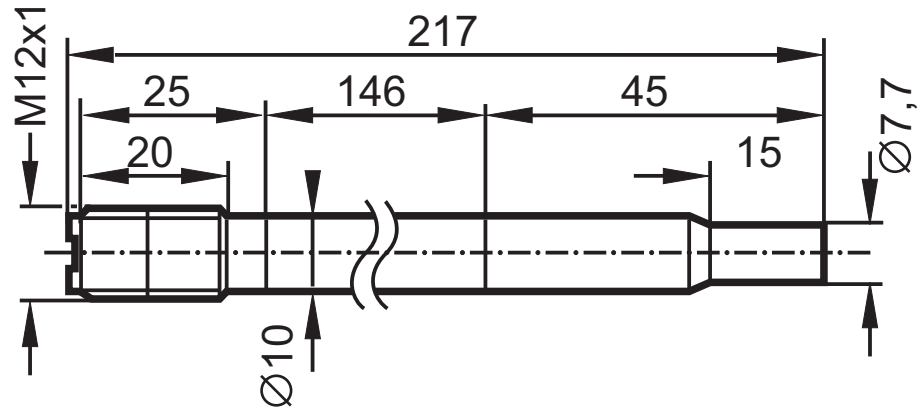
SF220A



SF320A



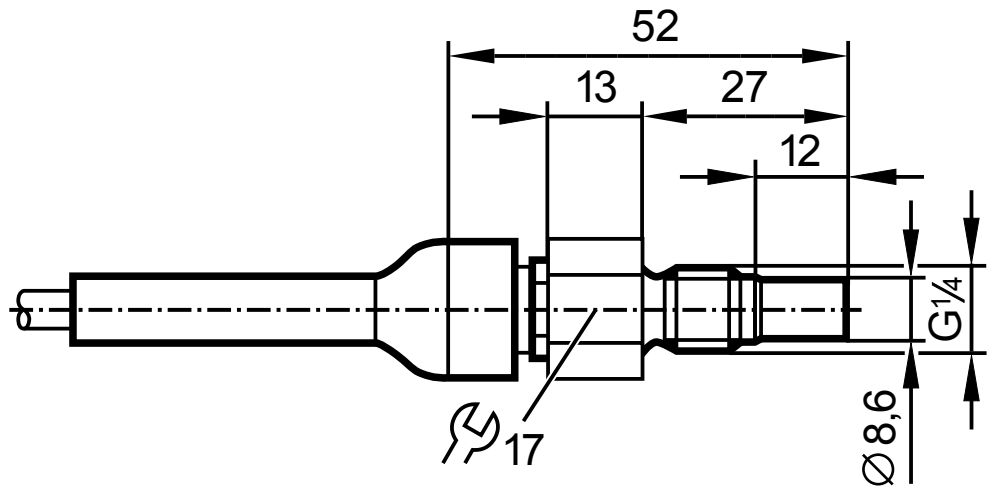
SF620A



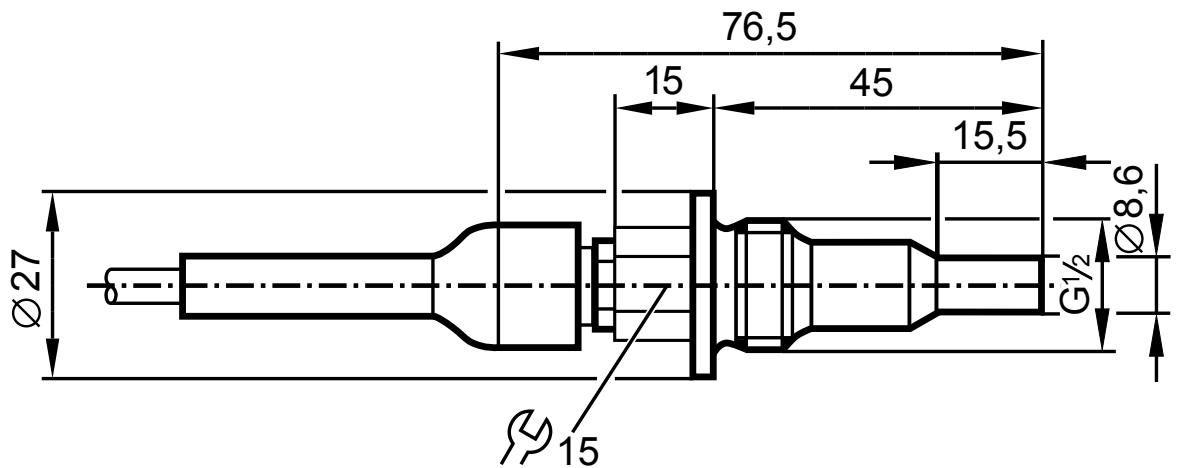
UK

Category 2G / Ceramic units

SF223A



SF323A



Category 2G / ANSIB16.5 (1in; 300 lb/sq.in)

SF521A

