



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

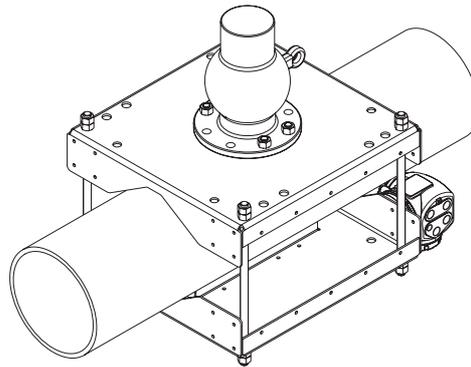
Special product

FHG61

Clamping device - density measurement

Radiometric measurement

Clamping device for pipes with a diameter of 400...1000 mm



Application

For clamping of source container QG20, QG100 or FQG61, FQG62 and Gammapilot FMG60 on rectangular irradiated pipes for density measurement.

- with scintillator PVT (200 mm, 400 mm) with/without cooling tube
- crystal NaI with or without cooling tube or collimator

Benefits

Mounting the radiometric instruments for density measurement on pipes up to diameter of 400 mm ... 1000 mm.

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1 Safety instructions

1.1 Designated use

The clamping device FHG61 is used for mounting the source container QG20, QG100 or FQG61, FQG62 and Gammapilot FMG60 on rectangular irradiated pipes for density measurement.

1.2 Mounting

Using the clamping device improperly or other than for its designated use, hazards may occur. Therefore the mounting must be carried out by trained specialists authorised by the system operator. Technical personnel must have read and understood these operating instructions and must adhere to them. You may only undertake modifications or repair work to the device when it is expressly permitted by the operating instructions.

2 Identification

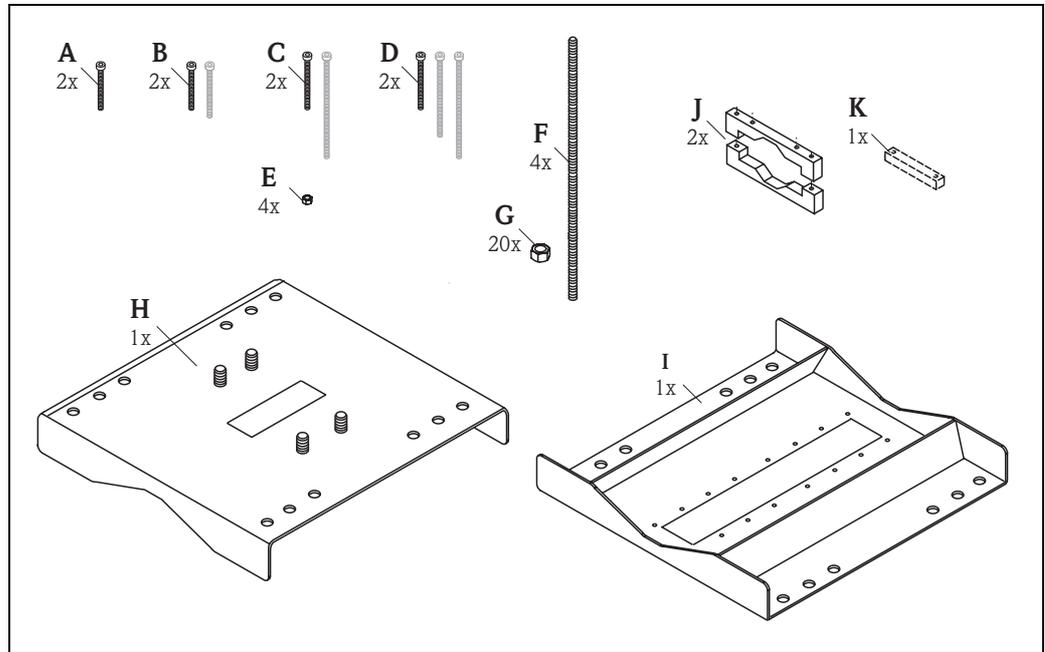
2.1 Product structure

10		Pipe diameter	
	Y		Special version, to be specified
<p>Special version = modification MVT1G0269 for pipes DN400 ... 600 mm modification MVT1G0270 for pipes DN600 ... 800 mm modification TSP1G0275 for pipes DN800 ... 1000 mm</p>			
15		Mounting clamp for scintillator	
	A		NaJ, 50 mm
	B		PVT, 200 mm
	C		PVT, 400 mm
	D		NaJ, 50 mm + cooling tube,/collimator; PVT, 200 mm/400 mm + cooling tube
20		Material	
		1	316L
FHG61-	Y		product designation

2.2 Scope of delivery

Check the packing and contents for any signs of damage.
Check the shipment, make sure nothing is missing.

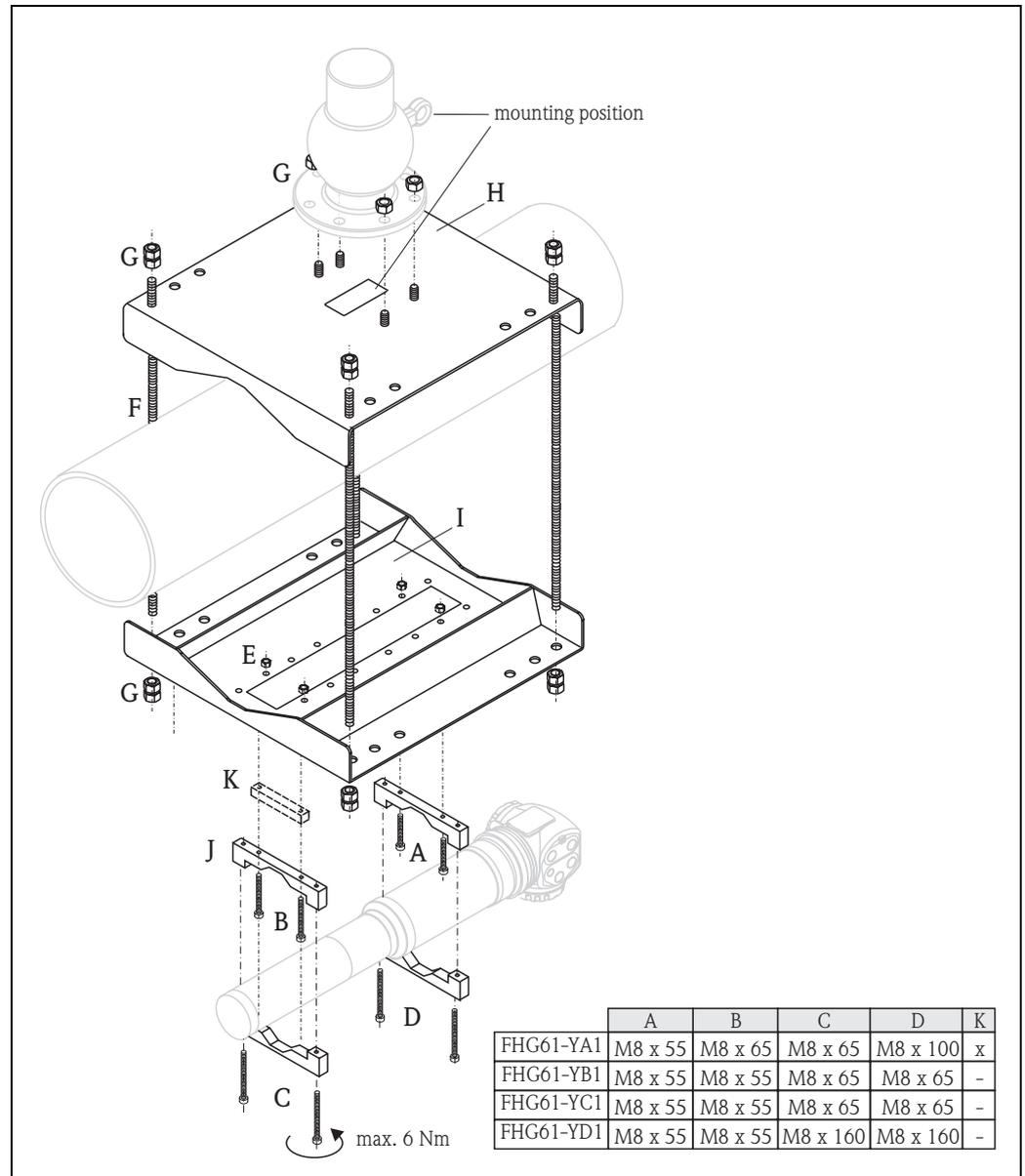
Scope of delivery:



- A Cylinder head screw M8 x 55
- B Cylinder head screw M8 x 55
(for FHG61-YA1 additionally 2 x cylinder head screw M8 x 65)
- C Cylinder head screw M8 x 65
(for FHG61-YD1 additionally 2 x cylinder head screw M8 x 160)
- D Cylinder head screw M8 x 65
(for FHG61-YA1 additionally 2 x cylinder head screw M8 x 100 or
for FHG61-YD1 additionally 2 x cylinder head screw M8 x 160)
- E Hexagon nut M8
- F Threaded bolt M16
- G Hexagon nut M16
- H Cover plate
- I Bottom plate
- J Mounting clamps
- K Distance piece (for FHG61-YA1 only)

3 Mounting

Before mounting the source container to the clamping device, make sure that the source container is in the "OFF" position, secured by the padlock.



Procedure:

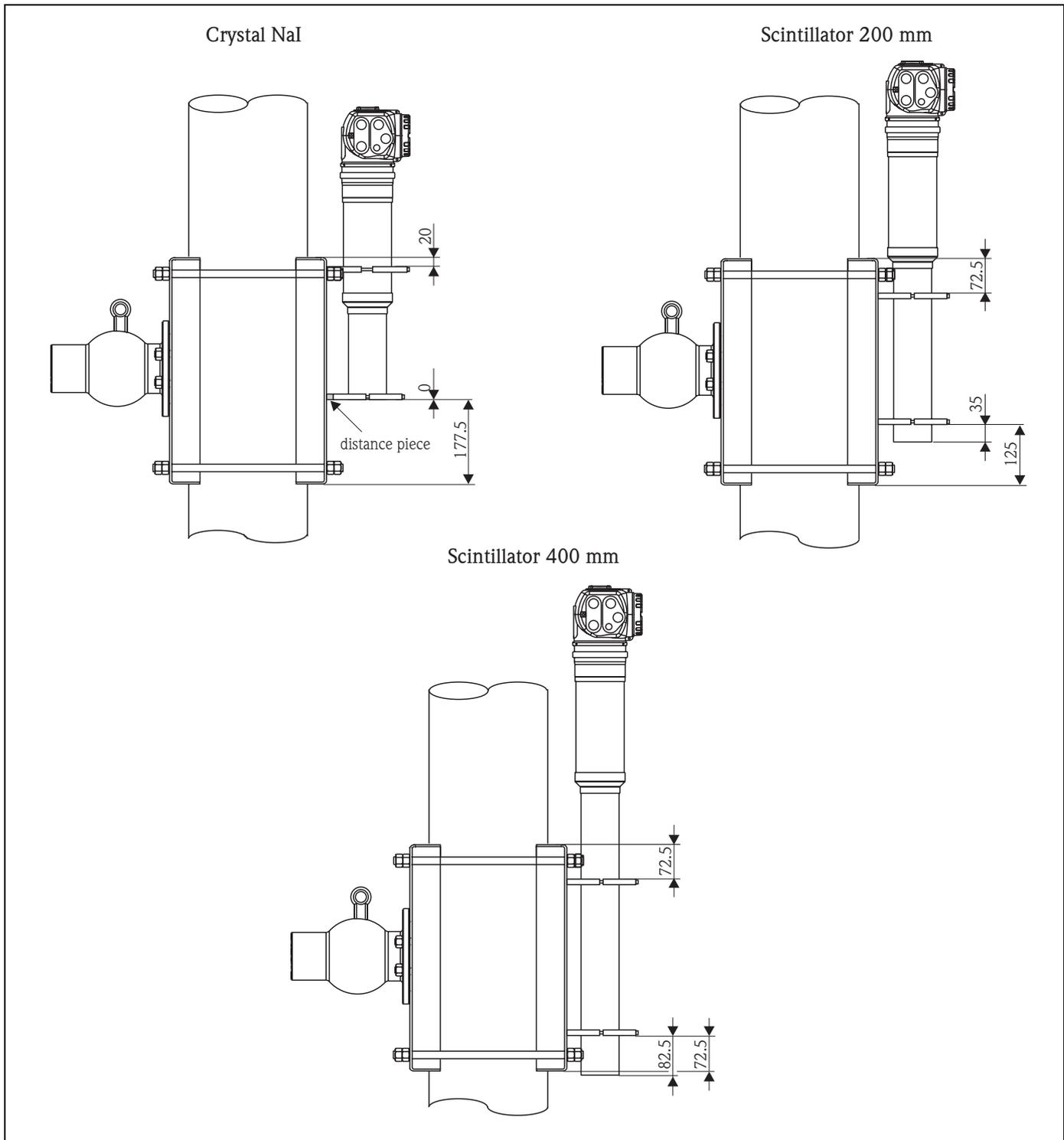
- Screw the mounting clamps (J) to the bottom plate (I).
The position of mounting clamps is dependent on the type of Gammapiilot M FMG60 (see next pages).
Hint for FHG61-YA1:
Position the distance piece (K) between the bottom plate and one mounting clamp.
- Fasten the clamping device to the pipe.
In order to avoid injuries, shorten the threaded bolts (F).
- Mount the Gammapiilot FMG60, torque max. 6 Nm
- Mount the source container onto the cover plate (H).
Take care that the mounting eye points to the same direction like the cut-out in the cover plate (see fig.).

4 Mounting position

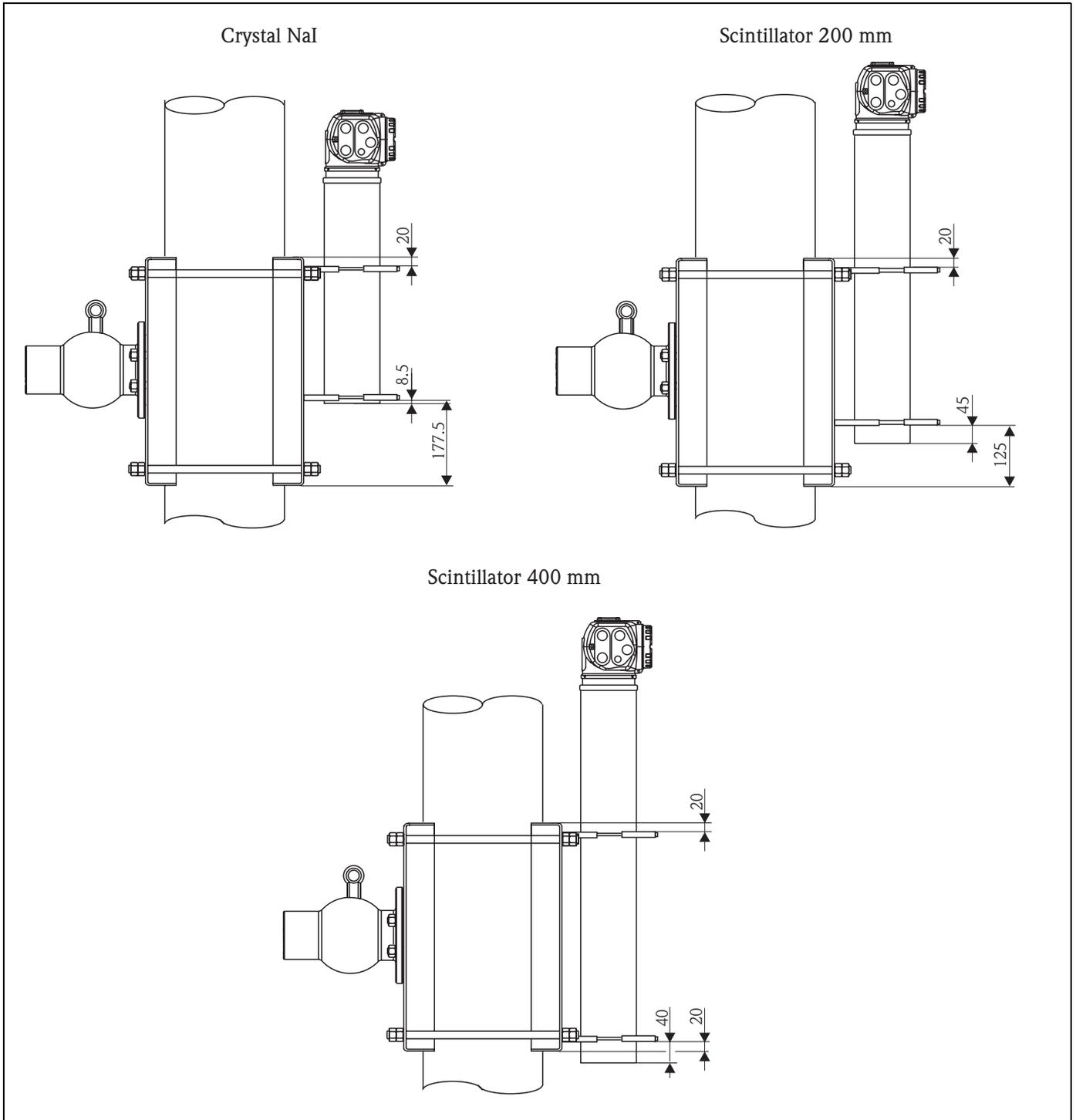
The mounting of the Gammapilot M FMG61 is preferable with the compartment housing to the top.

Hint: If the Gammapilot M FMG60 is mounted from the bottom side, support the instrument to prevent it from slipping out.

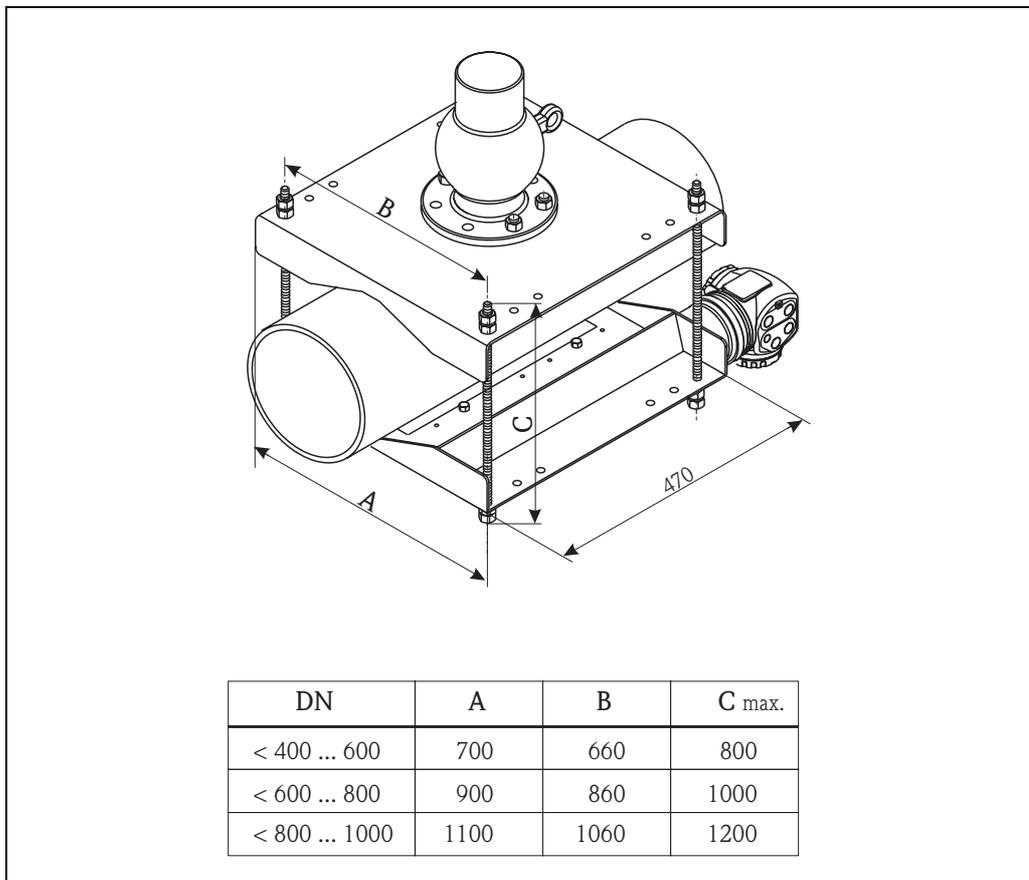
4.1 Mounting position for FMG60 without cooling tube or collimator



4.2 Mounting position for FMG60 with cooling tube or collimator



5 Dimensions



Technical changes excepted

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