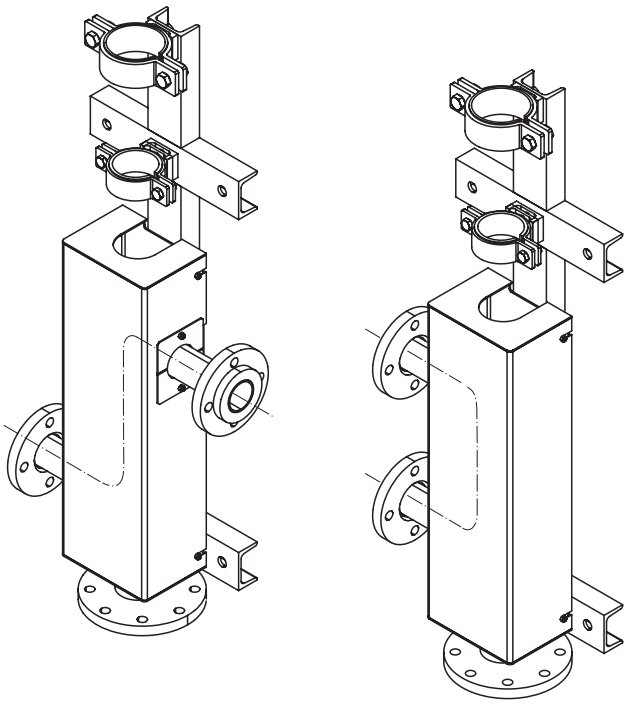
Level | Pressure | Flow | Temperature | Liquid Analysis | Registration | Systems Components | Services | Solutions

Special product

Measuring path density measurement FHG62

Radiometric measurement



Application

For clamping the source container FQG61/62 (QG020/100) and Gammapilot M FMG60 on pipes for density measurement.
The pipes are irradiated along the measuring path. This is has a positive effect on the measurement in applications with small pipe diameters or small density measurement range.

- measuring path 350 mm length
- measuring path shape "U" or "S" available
- for FMG60 with NaI scintillator without cooling tube or collimator

Benefits

- Mounting the radiometric instruments for density measurement on pipes with small diameter DN25 ... DN80
- Medium with small density measuring range

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People for Process Automation

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1 Safety instruction

Using the measuring path improperly or other than for its designated use, hazards may occur. Therefore the mounting must be carried out by trained specialists authorized 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.

Warnung!
Please observe also the legal radiation protection regultions as well as the safety instructions listed in the Operating Manual of source container FQG61/62 (QG020/100) and Gammapilot M FMG60.

2 Identification

2.1 Product structure

FHG62 Meas. path density measurement

10	**Shape measuring pipe**				
	A	S-shaped			
	B	U-shaped			
	Y	special version, to be specified			
20		**Measuring path**			
		1	350 mm		
		9	special version, to be specified		
30			**Pipe diameter, flange, material**		
			A1	DN25, PN16, 316Ti	
			A2	DN25, PN16, PP	
			A3	DN25, PN16, PVDF	
			B1	DN32, PN16, 316Ti	
			B2	DN32, PN16, PP	
			B3	DN32, PN16, PVDF	
			C1	DN40, PN16, 316Ti	
			C2	DN40, PN10, PP	
			C3	DN40, PN16, PVDF	
			D1	DN50, PN16, 316Ti	
			D2	DN50, PN10, PP	
			D3	DN50, PN16, PVDF	
			E1	DN65, PN16, 316Ti	
			E2	DN65, PN10, PP	
			E3	DN65, PN16, PVDF	
			F1	DN80, PN16, 316Ti	
			F2	DN80, PN10, PP	
			F3	DN80, PN16, PVDF	
			Y9	special version, to be specified	
40				**Material clamping device**	
				A	304
				Y	special version, to be specified
FHG62-					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.
The measuring path is delivered in one assembled part. The source container and Gammapilot M FMG60 have to be ordered as separate items.

3 Mounting

3.1 Mounting position

- The measuring path for density measurement should be mounted at vertically pipes preferably with flow direction from bottom to top.
  For horizontal mounting the influence of air bubbles and deposits must be considered
- Position the measuring path so that the Gammapilot M FMG60 can be mounted from the top and the source container from below.
  However, if the Gammapilot M FMG60 is mounted from the bottom side, support the instrument to prevent it from slipping out.
- The measuring path must be installed in a way such it can hold the weight of the source container and Gammapilot M FMG60 under all operating conditions (e.g. vibrations). It has to be supported on a stable construction protected from vibrations provided by the customer.

Weights:

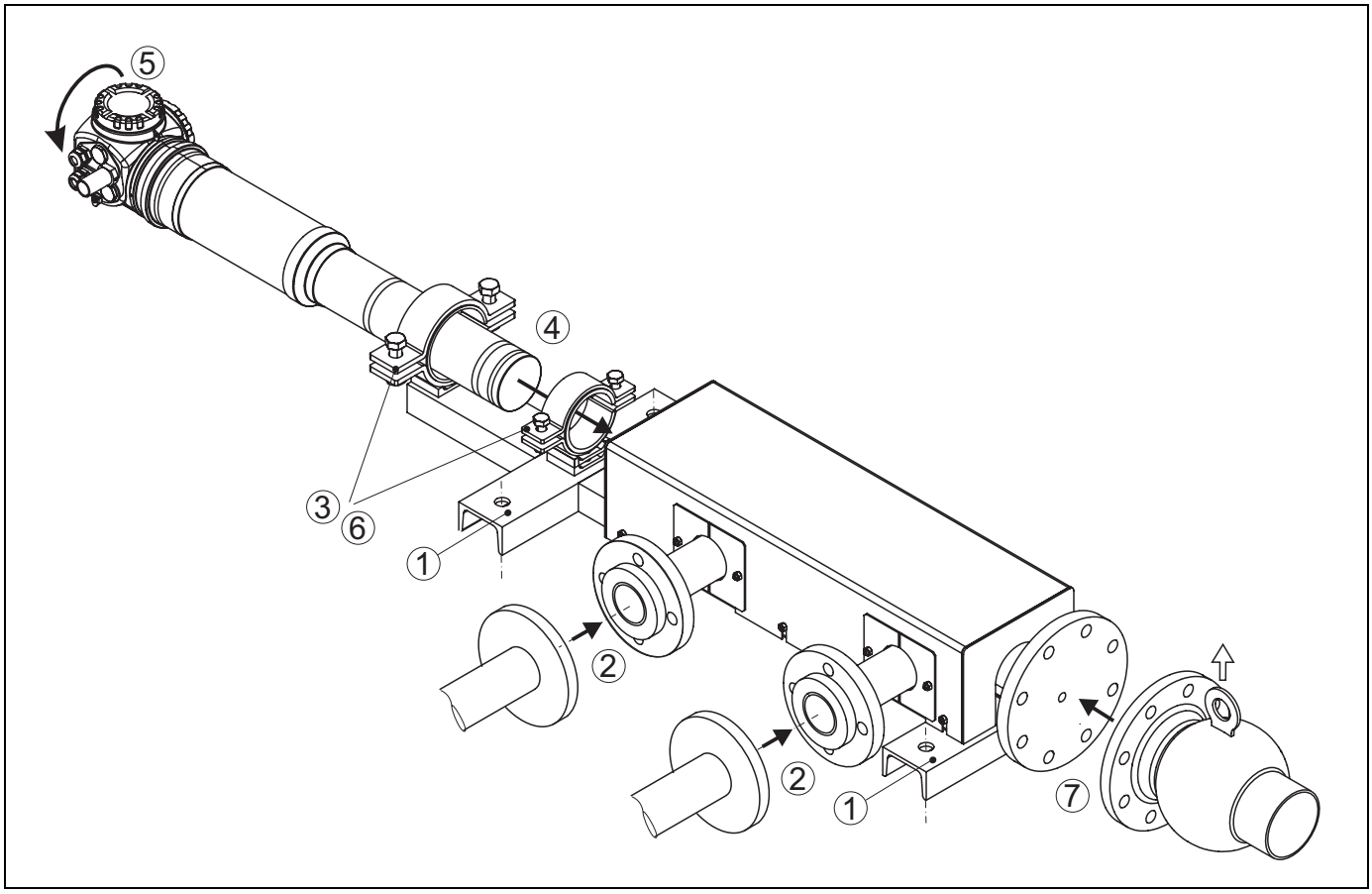
measuring path density measurement FHG62	55 kg (flange DN50 PN16, 316i)
Gammapilot M FMG60	14 kg
Source container FQG61 (QG020)	45 kg
Source container FQG62 (QG100)	87 kg

3.2 Mounting instructions

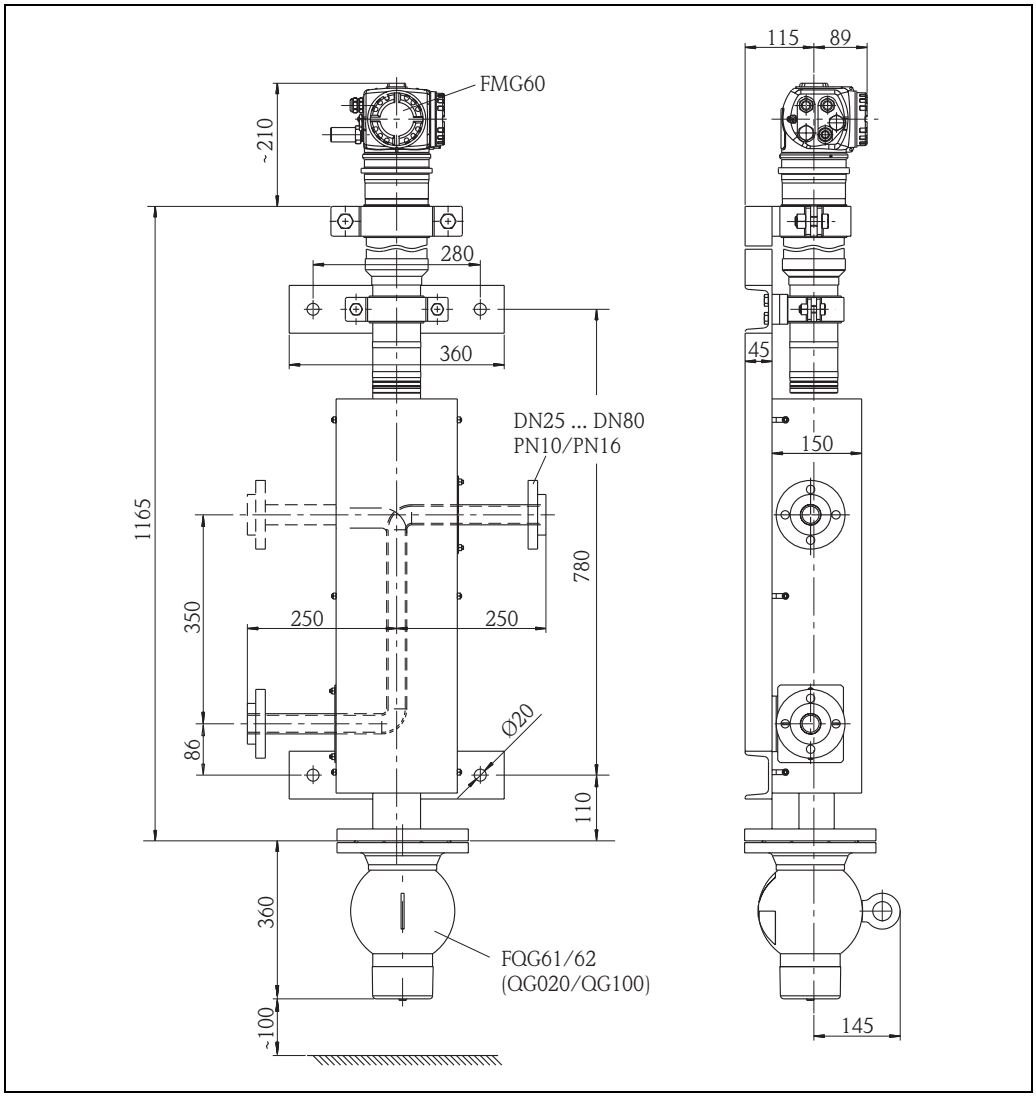
Before mounting the measuring path, make sure that the Source container is in the "OFF" position, secured by the padlock.

Procedure:

1. Mount the measuring path with the support near the pipe.
2. Connect measuring path with both flanges at the pipe.
3. Loosen the pipe screw for mounting the Gammapilot M FMG60
4. Mount the Gammapilot M FMG60 at the measuring path by pulling it through the pipe clamps inside the measuring path until stop.
   Take care that the protections rings in the pipe clamps are in the correct position.
5. Adjust the housing of FMG60 according to the position of cable glands or cover by turning it.
6. Fasten the pipe clamps.
7. Mount the Source container on the mounting flange, so that the eye bolt points in the direction of the surface of cover (radiation exit channel).



4 Dimensions



Technical changes excepted

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