



Special Documentation

FHG51-A#1PA

Clamping device for density measurement with protective guard

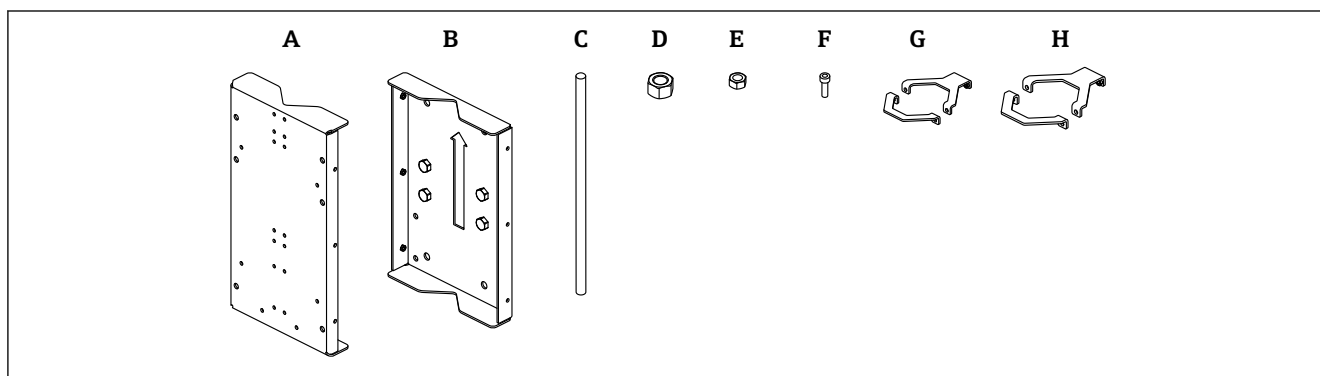
For pipes with an outer diameter of 50 to 200 mm (2 to 8 in)

Designated use

Clamping device to secure a radiometric measuring system on pipes with an outer diameter of 50 to 200 mm (2 to 8 in).

The radiometric measuring system comprises an FQG61 or FQG62 source container and the GammapiLOT FMG50 compact transmitter.

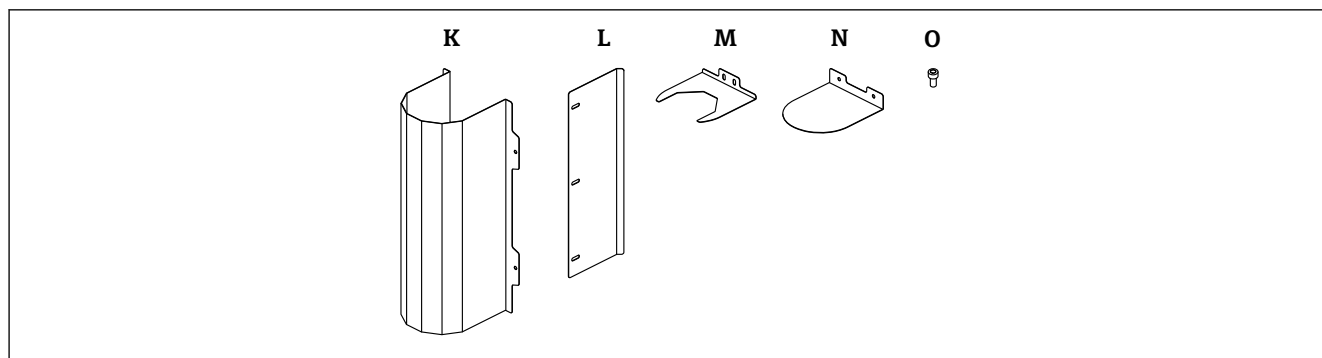
Overview of clamping device



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- A 1 × retaining plate FMG50; 535 mm (21.06 in) × 290 mm (11.41 in) × 60 mm (2.36 in), 316L (1.4404)
- B 1 × retaining plate FQG61, FQG62; 460 mm (18.11 in) × 310 mm (12.20 in) × 60 mm (2.36 in), 316L (1.4404)
- C 4 × threaded rod DIN976-1 M10×400, A4
- D 4 × nut DIN EN ISO4032 M16, A4
- E 16 × nut DIN EN ISO4032 M10, A4
- F 8 × screw DIN EN ISO4762 M6×20, A4
- G 2 × pipe bracket Ø80 mm (3.15 in); 126 mm (4.96 in) × 171 mm (6.73 in) × 18 mm (0.71 in), 316L (1.4404)
- H 1 × pipe bracket Ø95 mm (3.74 in); 140 mm (5.51 in) × 178 mm (7.01 in) × 20 mm (0.79 in), 316L (1.4404)

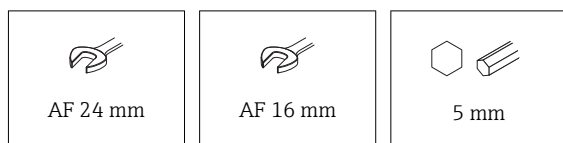
Overview of protective guard



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- K** 1 × protective guard cover FMG50; 500 mm (19.68 in) × 240 mm (9.45 in) × 187 mm (7.36 in), 316L (1.4404)
L 4 × adjustable protective guard, pipe 440 mm (17.32 in) × 151 mm (5.95 in), 316L (1.4404)
M 1 × protective guard, top 155 mm (6.10 in) × 30 mm (1.81 in) × 150 mm (5.91 in), 316L (1.4404)
N 1 × protective guard, bottom 155 mm (6.10 in) × 35 mm (1.38 in) × 183 mm (7.20 in), 316L (1.4404)
O 18 × screw DIN EN ISO4762 M6×16, A4

Tools list



Safety instructions

⚠ CAUTION

Heavy components and devices

Risk of injury, damage to equipment

- Use hoists

⚠ CAUTION

Protruding threaded rods

Risk of injury

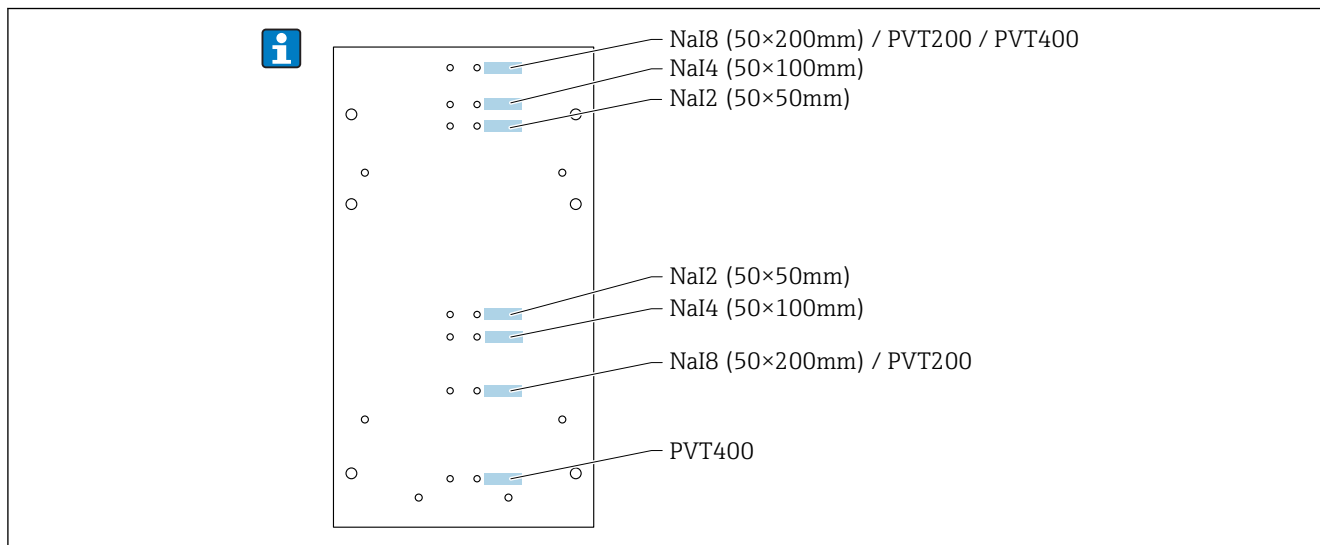
- After installation, shorten any protruding threaded rods

Installation



- At least two people are required for the installation
- Mount the clamping device first and then mount the devices.
- Pay attention to the mounting position of the Gammapiilot FMG50.
- In the case of the FQG61 and FQG62, ensure that the lifting eye bolt is aligned.

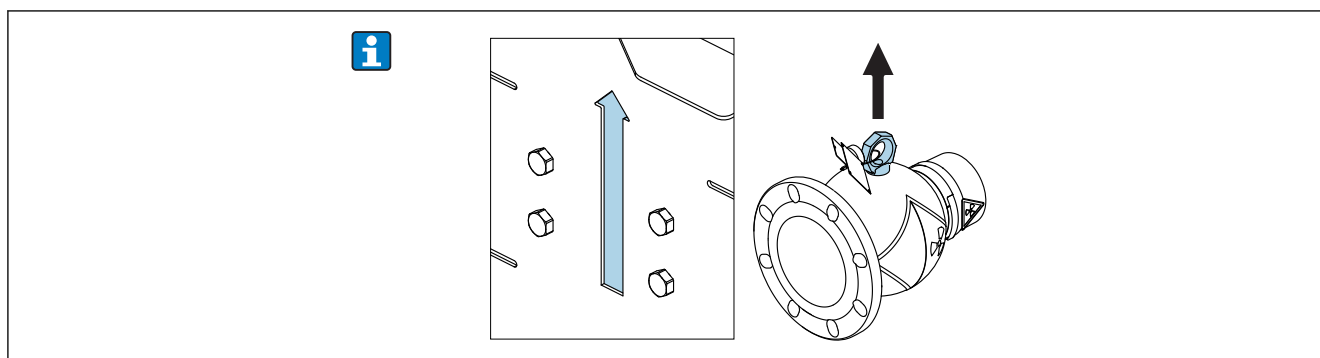
Gammapiilot mounting position



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1 Gammapiilot mounting position

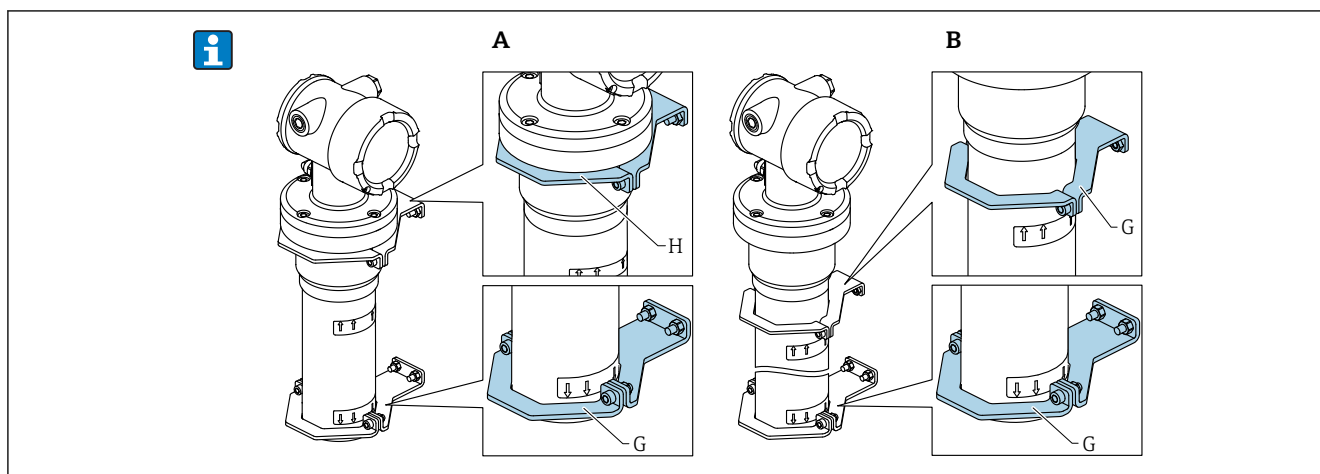
Alignment of source container



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2 Alignment of source container

Mounting position of pipe bracket

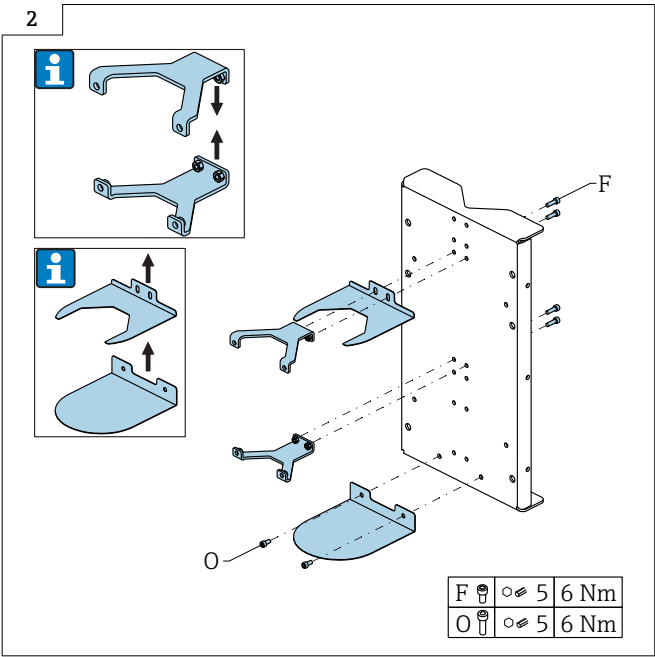
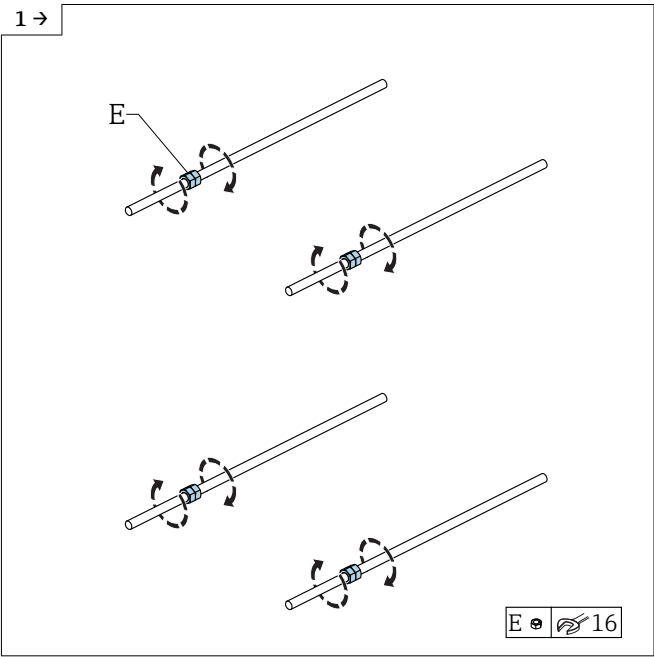


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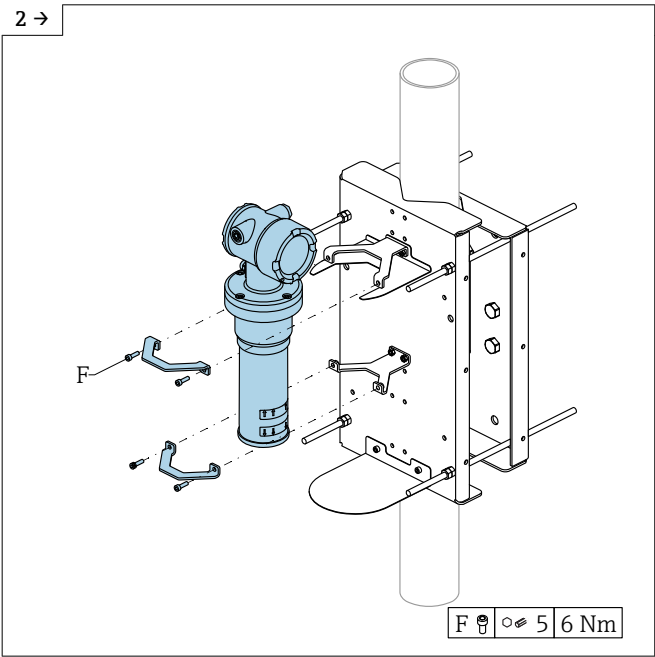
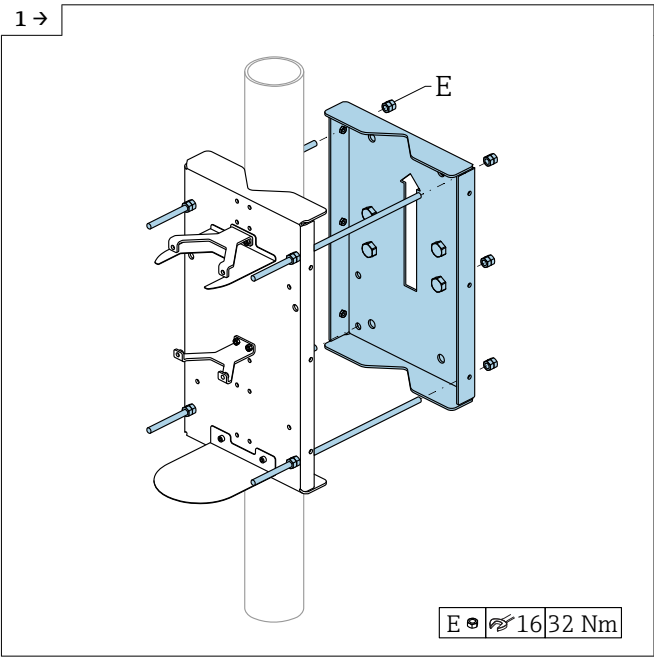
3 Mounting position of pipe bracket

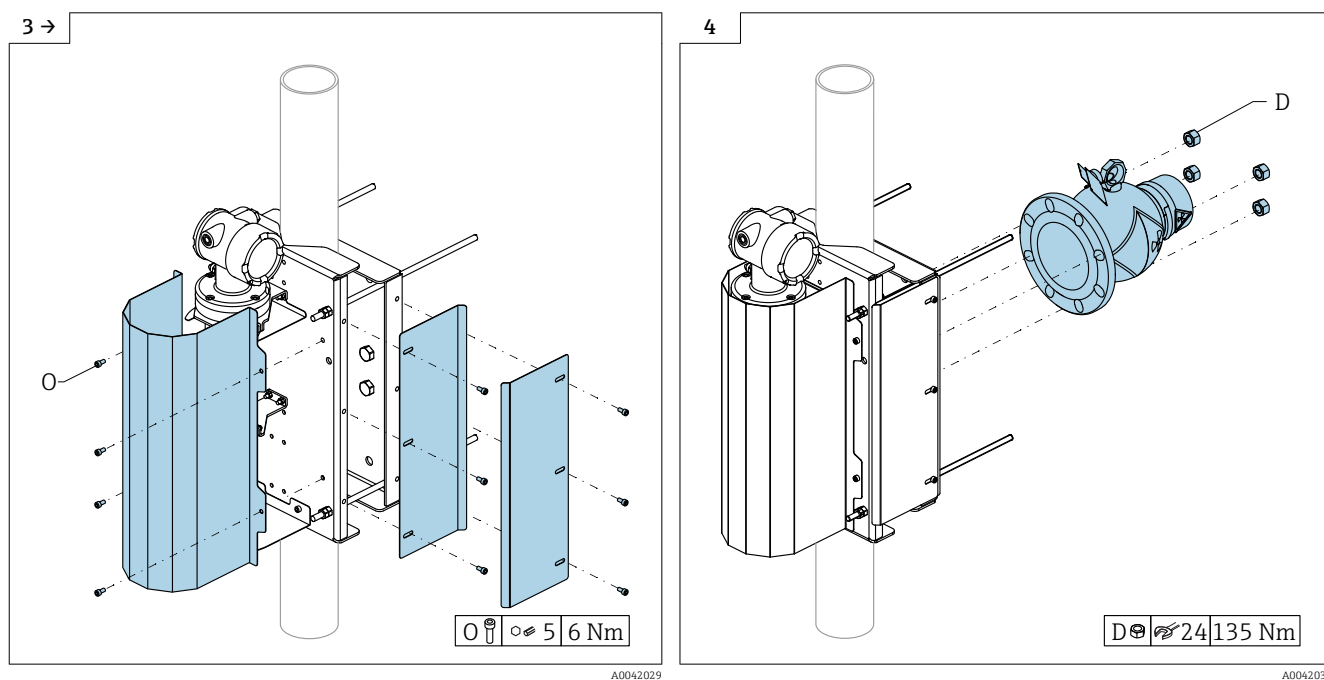
- A FMG50 sensor - NaI, PVT200
B FMG50 sensor - PVT400

Pre-assembly

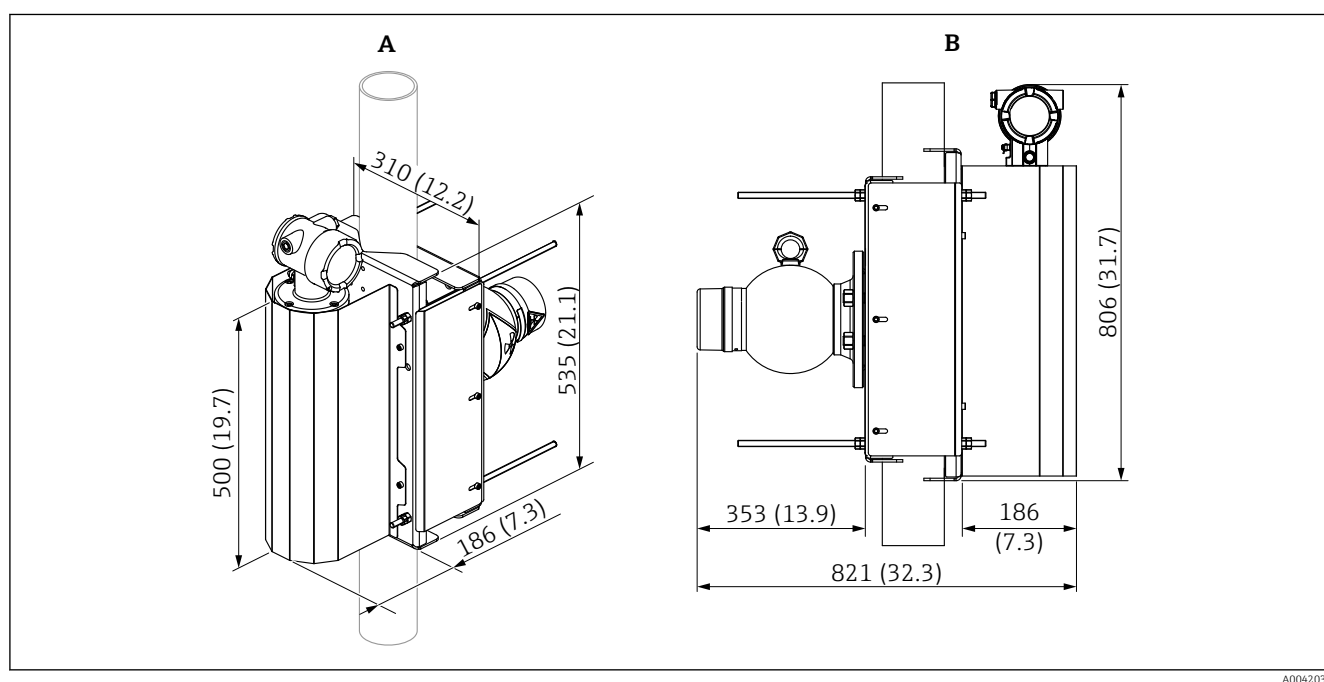


Installation steps





Dimensions and weight



Unit of measurement mm (in)

A Product dimensions

B Maximum required installation space; less space may be required depending on the device selected

Weight: approx. 21 kg (excluding detector and source container)

Supplementary documentation

The following supplementary documentation is available in the Downloads section of the Endress+Hauser website (www.endress.com/downloads):

Gammapilot FMG50



BA01966F

Source container FQG61, FQG62



TI00435F