



# Special Documentation

## FHG51-A#1

### Clamping device for density measurement

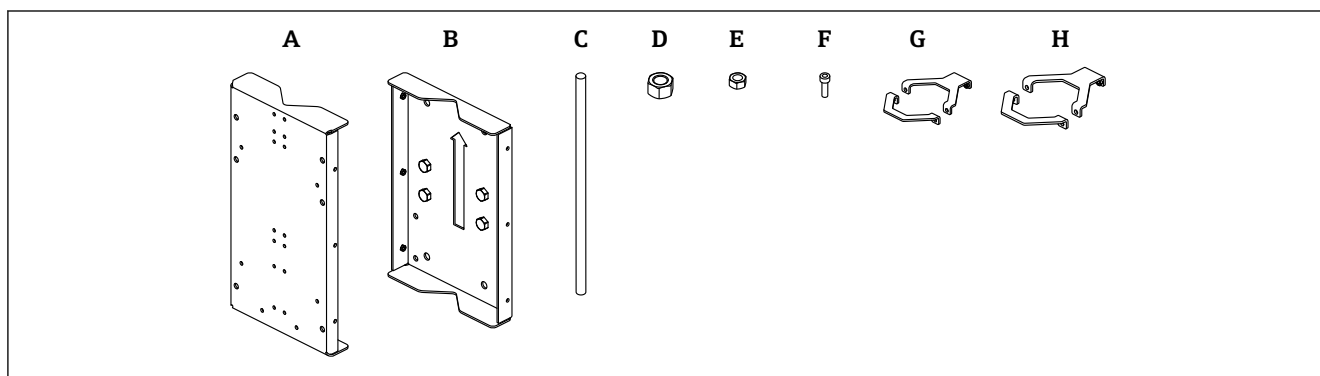
For pipes with an outer diameter of 50 to 200 mm (2 to 8 in)

#### 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 Gammapiot FMG50 compact transmitter.

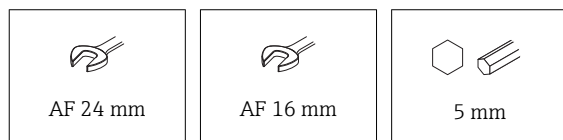
#### Overview of clamping device



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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)

#### Tools list



#### Safety instructions

##### ⚠ CAUTION

##### Heavy components and devices

Risk of injury, damage to equipment

- Use hoists

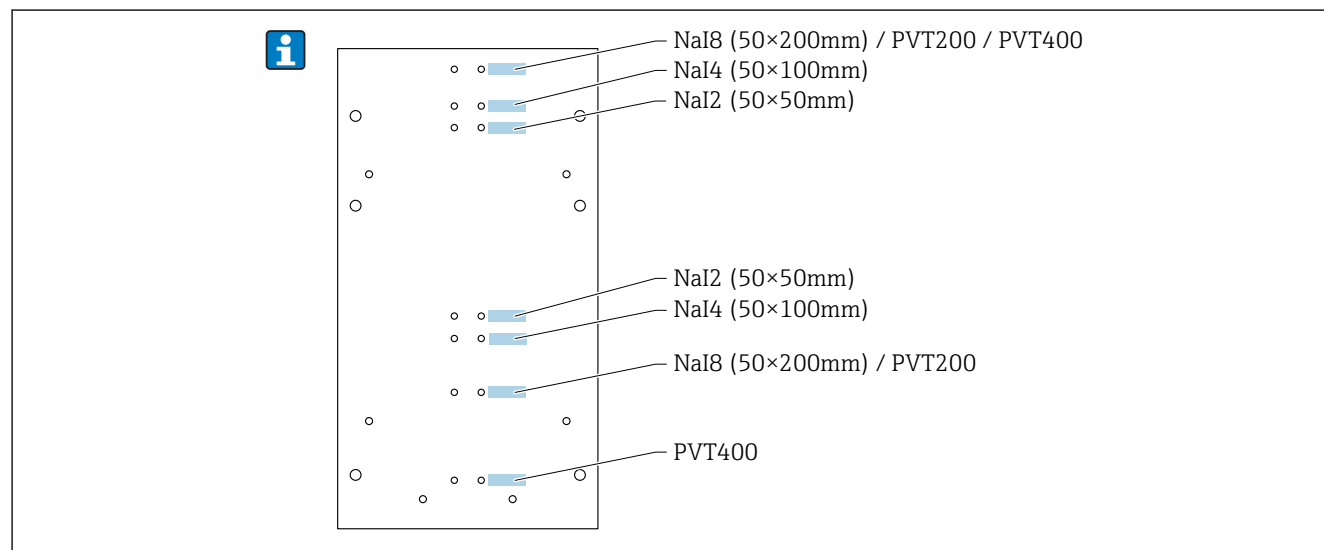
**⚠ CAUTION****Protruding threaded rods**

Risk of injury

- After installation, shorten any protruding threaded rods

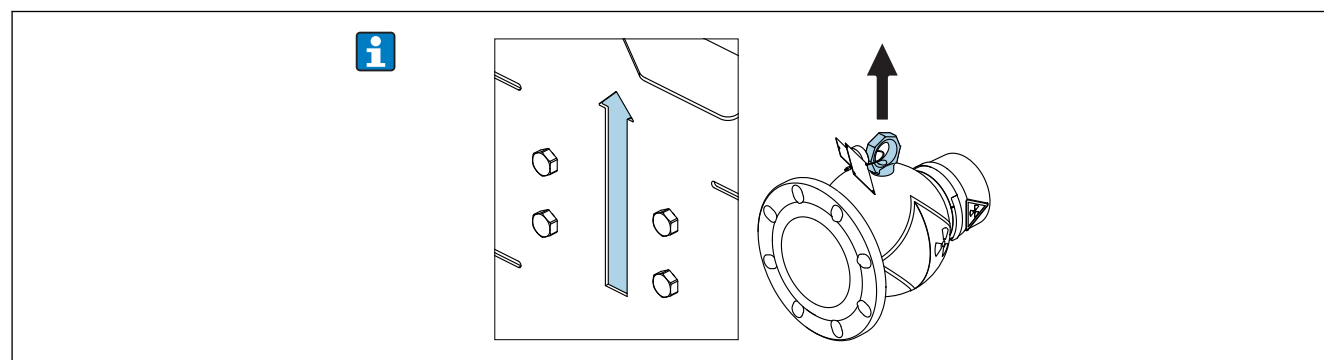
**Installation**

- i** 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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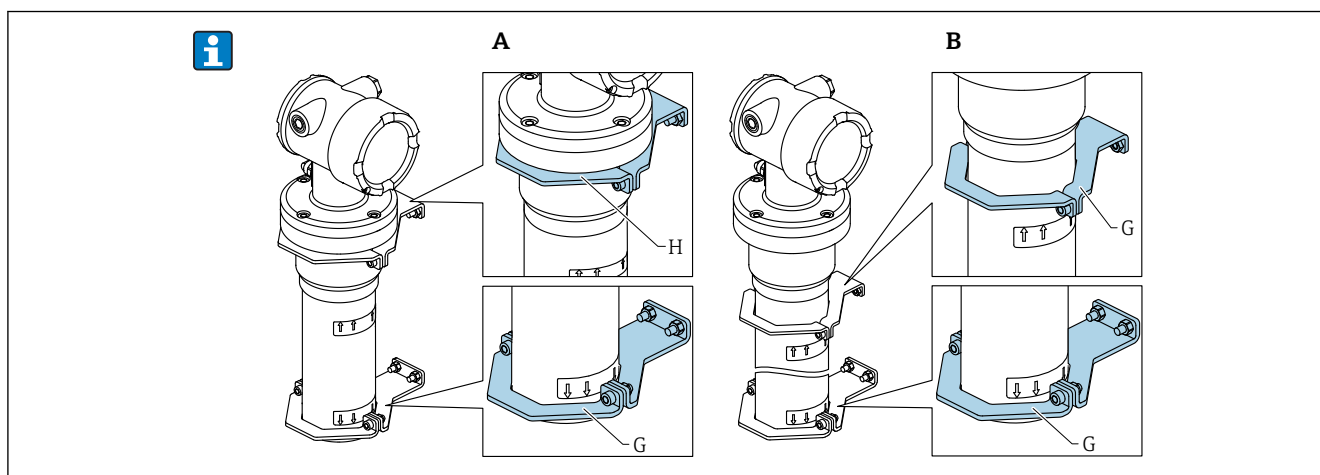
**1** Gammapiilot mounting position

**Alignment of source container**

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**2** Alignment of source container

## Mounting position of pipe bracket



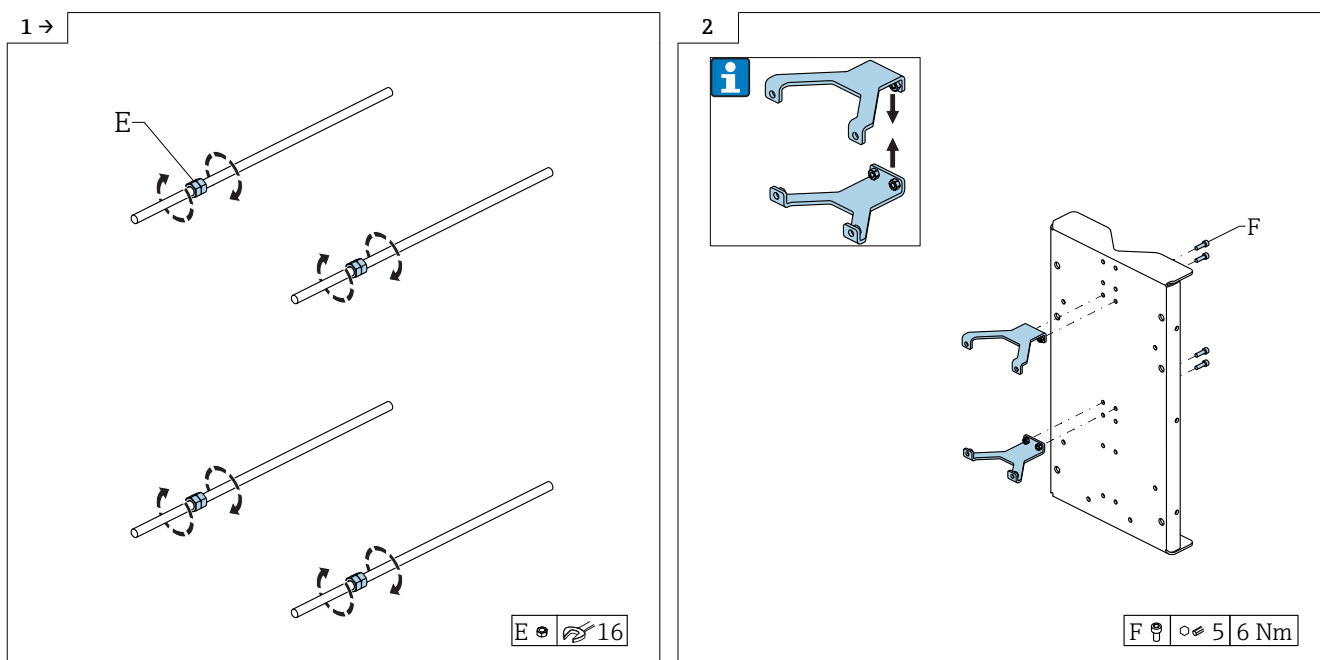
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### 3 Mounting position of pipe bracket

A FMG50 sensor - NaI, PVT200

B FMG50 sensor - PVT400

## Pre-assembly

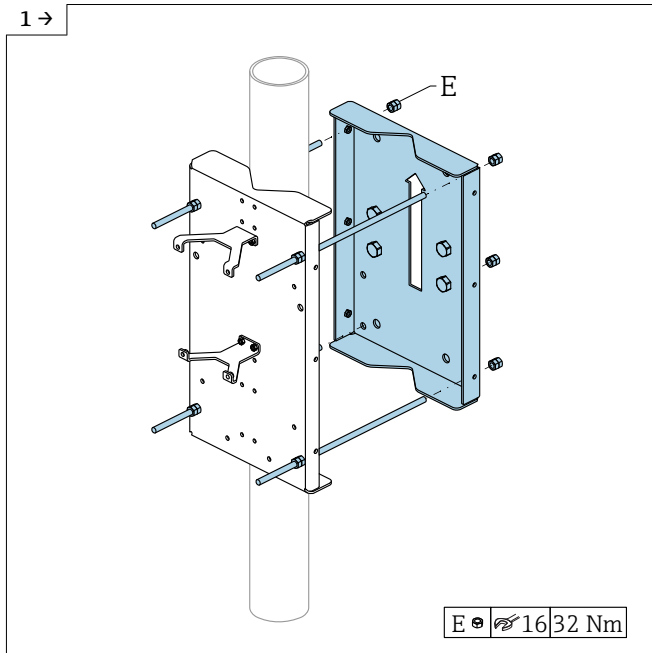


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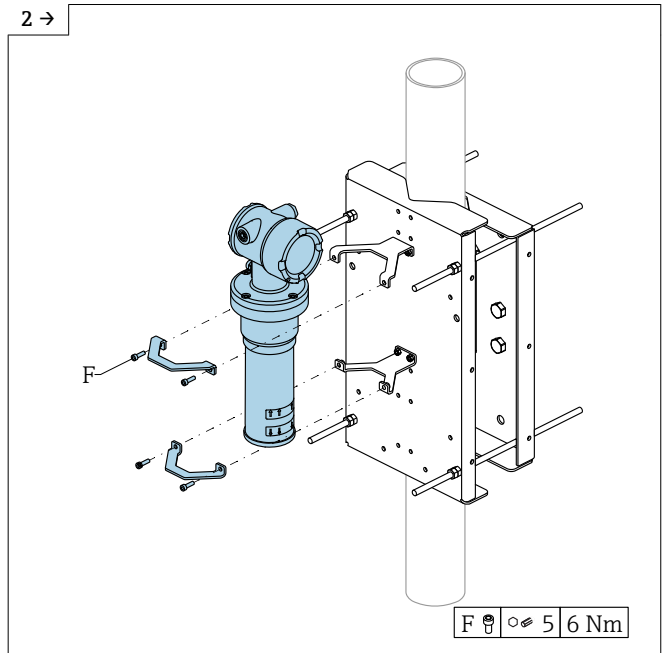
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## Installation steps

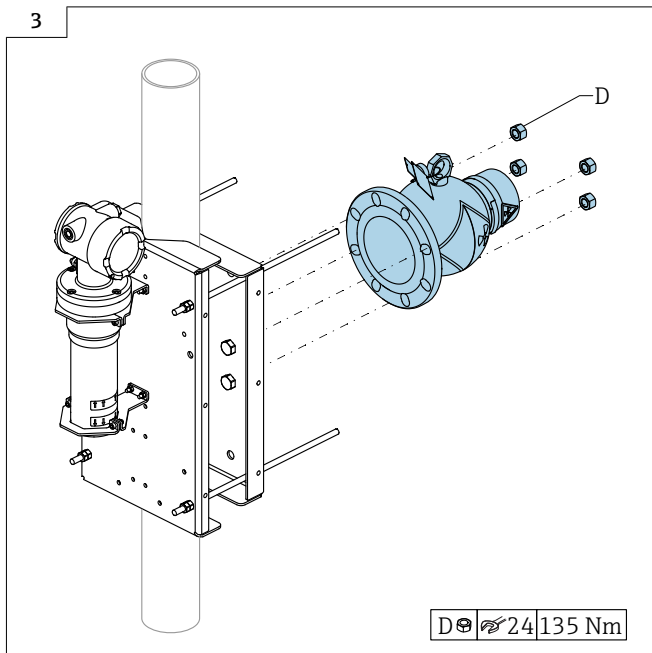
1 →



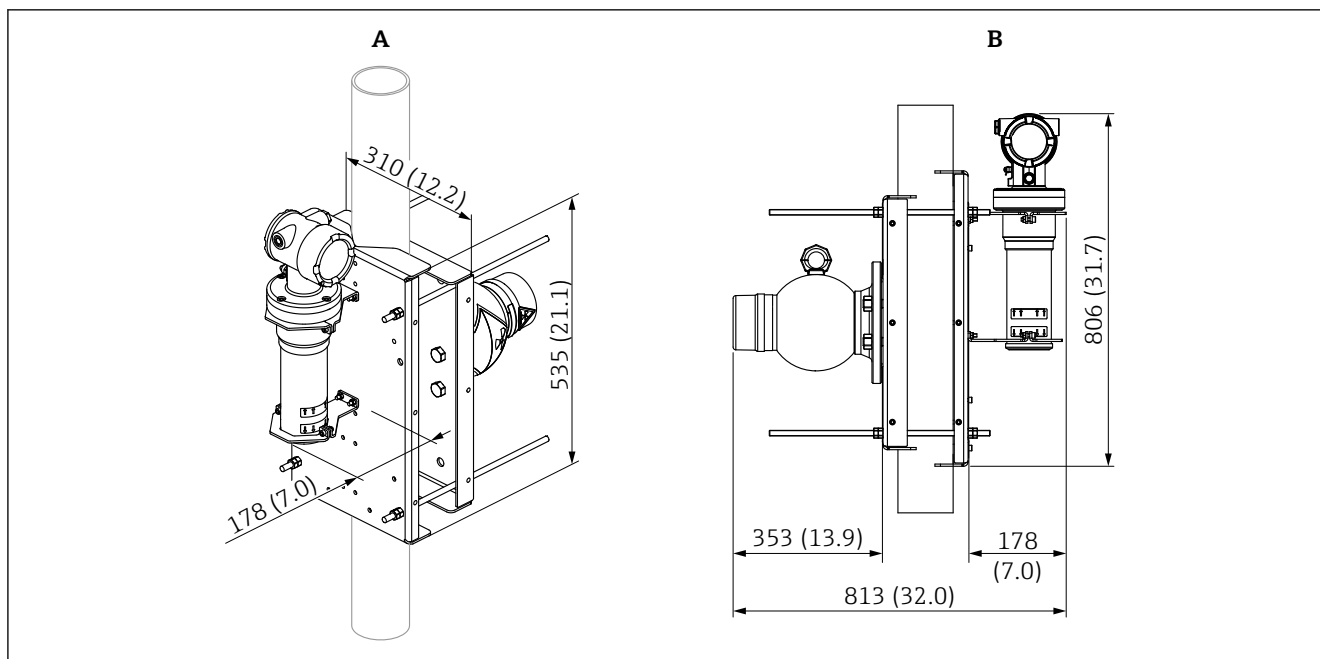
2 →



3



## Dimensions and weight



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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. 15 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](http://www.endress.com/downloads)):

### Gammapirot FMG50



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### Source container FQG61, FQG62



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