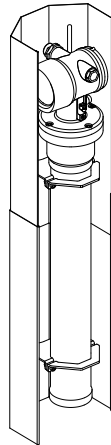


# Special Documentation

## Heat shield for Gammapihot FMG50

Radiometric measurement



# 1 Designated use

The heat shield is designed for the Gammapilot FMG50 radiometric measuring device and is mounted on the measuring tube of the Gammapilot FMG50. The heat shield is used to shield against direct sunshine or process heat.

## 2 About this document

### 2.1 Safety symbols

#### DANGER

This symbol alerts you to a dangerous situation. Failure to avoid this situation will result in serious or fatal injury.

#### WARNING

This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in serious or fatal injury.

#### CAUTION

This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or medium injury.

#### NOTICE

This symbol contains information on procedures and other facts which do not result in personal injury.

### 2.2 Symbols for certain types of information

#### 2.2.1 Permitted:

Procedures, processes or actions that are permitted.

#### 2.2.2 Forbidden:

Procedures, processes or actions that are forbidden.

#### 2.2.3 Series of steps: 1., 2., 3.

### 2.3 Symbols in graphics

#### 2.3.1 Item numbers: 1, 2, 3 ...

#### 2.3.2 Series of steps: 1., 2., 3.

## 3 Components

### 3.1 Pipe brackets

The base plates are secured on the measuring device with the pipe brackets.

### 3.2 Base plate

Base plates of different lengths are used, depending on the length of the measuring device. The number of base plates also depends on the length of the measuring device.

## 4 Installation

### 4.1 General installation instructions

#### WARNING

##### **Risk of injury from handling heavy parts!**

Fingers or hands may get crushed or caught.

- ▶ Mount the base plates carefully.
- ▶ If several base plates are used, at least 2 people are required to mount the base plates on the measuring device.

#### WARNING

##### **Risk of injury from loose parts if the wrong torque is applied!**

The measuring device can become detached from the mounting device.

- ▶ Tighten all screws with a maximum torque of 6 Nm (4.4 lbf ft).

#### WARNING

##### **Risk of injury from climbing on the base plates or measuring device!**

The base plate can become detached from the measuring device or be damaged.

- ▶ Do not climb on the base plate or measuring device!

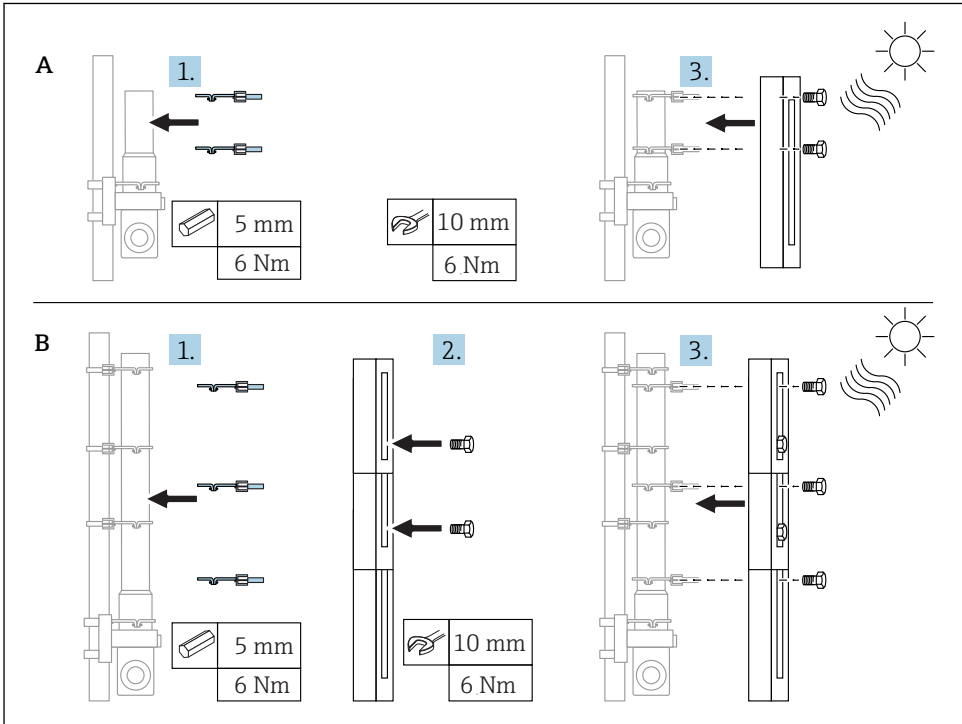
#### NOTICE

##### **Risk of damaging the measuring device if the wrong torque is applied.**

- ▶ Tighten all screws with a maximum torque of 6 Nm (4.4 lbf ft).

## 4.2 Schematic representation of the installation

 The mounting clearances are indicated on the following pages.



A0041060

 1 Sample representation with retaining bracket

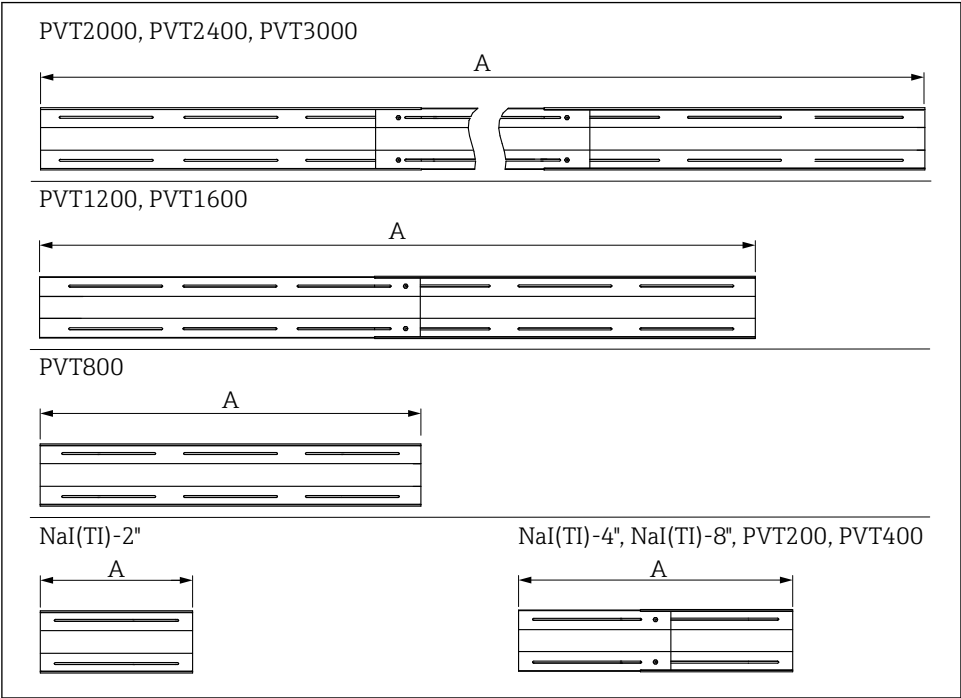
A Installation with one base plate

B Installation with several base plates

### Mounting sequence

1. Mount the pipe bracket on the measuring device.
2. If using several base plates, fit the plates together and then adjust to the correct length. First bolt the plates together loosely with the screws and nuts in the slotted hole.
3. Align the pipe bracket and base plates against sources of heat. Only finally tighten the screws of the pipe bracket and base plates with 6 Nm (4.4 lbf ft) once the base plates have been aligned correctly.
4. Mount the base plate on the pipe bracket.

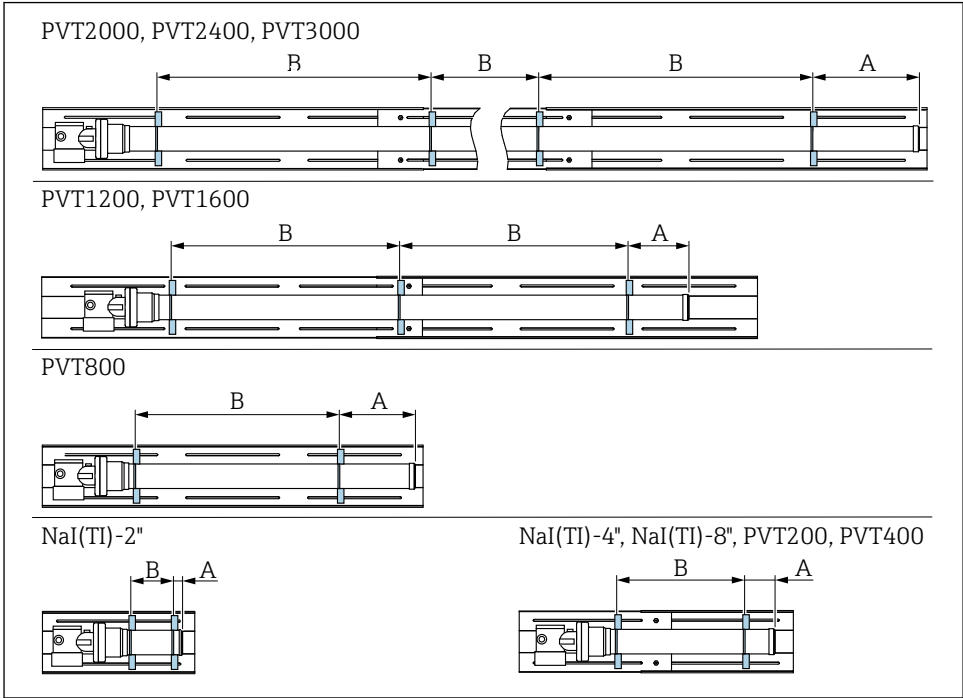
4.3 Base plates: clearance data



A0041170

| Version    | A                          | kg (lb)          |
|------------|----------------------------|------------------|
| NaI(Tl)-2" | Approx. 500 mm (19.7 in)   | 2.2 kg (4.85 lb) |
| NaI(Tl)-4" | Approx. 600 mm (23.6 in)   | 2.5 kg (5.51 lb) |
| NaI(Tl)-8" | Approx. 700 mm (27.6 in)   |                  |
| PVT200     | Approx. 700 mm (27.6 in)   |                  |
| PVT400     | Approx. 900 mm (35.4 in)   | 4.5 kg (9.92 lb) |
| PVT800     | Approx. 1 250 mm (49.2 in) |                  |
| PVT1200    | Approx. 1 750 mm (68.9 in) |                  |
| PVT1600    | Approx. 2 100 mm (82.7 in) | 8 kg (17.64 lb)  |
| PVT2000    | Approx. 2 500 mm (98.4 in) |                  |
| PVT2400    | Approx. 2 900 mm (114 in)  |                  |
| PVT3000    | Approx. 3 450 mm (136 in)  |                  |

# 4.4 Pipe brackets: clearance data



A0041150

| Version    | A                | B                |
|------------|------------------|------------------|
| NaI(Tl)-2" | 30 mm (1.18 in)  | 140 mm (5.51 in) |
| NaI(Tl)-4" | 50 mm (1.97 in)  | 170 mm (6.69 in) |
| NaI(Tl)-8" | 50 mm (1.97 in)  | 270 mm (10.6 in) |
| PVT200     | 50 mm (1.97 in)  | 270 mm (10.6 in) |
| PVT400     | 100 mm (3.94 in) | 420 mm (16.5 in) |
| PVT800     | 250 mm (9.84 in) | 670 mm (26.4 in) |
| PVT1200    | 300 mm (11.8 in) | 500 mm (19.7 in) |
| PVT1600    | 200 mm (7.87 in) | 750 mm (29.5 in) |
| PVT2000    | 300 mm (11.8 in) | 600 mm (23.6 in) |
| PVT2400    | 250 mm (9.84 in) | 750 mm (29.5 in) |
| PVT3000    | 350 mm (13.8 in) | 900 mm (35.4 in) |

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