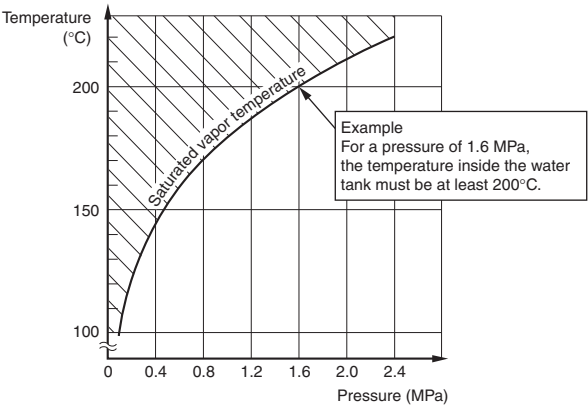


Operating temperature and pressure range



Appearance

BF-1 Tightening torque: 2.25 N·m Heat resistance: 70°C Heat resistance: 150°C	BF-3(R) BF-5(R) Tightening torque: 2.25 N·m Heat resistance: 70°C Heat resistance: 150°C (See note 1.)	BS-1 Maximum terminal tightening torque: 137.2 N·cm Heat resistance: 150°C Heat resistance: 250°C Material at clamping section: iron (standard) SUS304 and SUS316 are also available. (See note 2.)	BS-1T SUS HAS Titanium (See note 3.)
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Note: 1. The F03-11 Protective Cover (sold separately) is available.

2.

Model	Material at tightening section	Screws
BS-1	Iron	M18 P = 1.5
BS-1S	SUS304	M18 P = 1.5
BS-1S-1	SUS304	PT1/2
BS-1S2	SUS316	M18 P = 1.5

3. Clamp screws are not provided for HAS B, HAS C, or titanium Electrode Holders. When placing an order, specify the type of material from the following five: SUS304, SUS316, HAS B, HAS C, or Titanium.

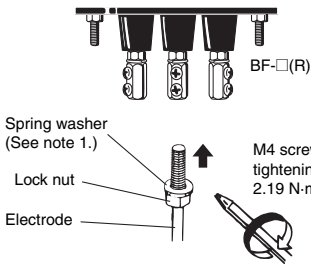
Accessories Required for Connecting Electrodes to the BF-□(R)
(Order Separately)

Electrode Shorter
than 1 m

The following items are required for each pole.

- 1 × F03-01 Electrode
- 1 × F03-03 Lock Nut

The Electrode can be cut anywhere to a desired control level.



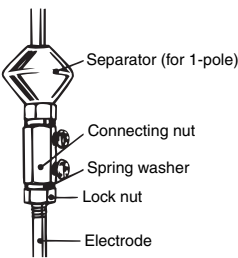
- Note: 1. The spring washer comes with the lock nut.
Contact your OMRON representative to purchase a replacement if the spring washer wears out or is lost.
2. Refer to F03-□ for details on Electrodes, Connecting Nuts, Lock Nuts, and Separators.

Electrode Longer
than 1 m

The following items are required for every additional meter of electrode for each pole.

- 1 × F03-01 Electrode
- 1 × F03-02 Connecting Nut
- 2 × F03-03 Lock Nuts

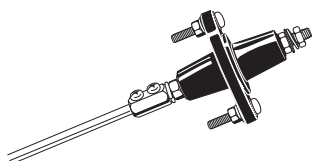
Use F03-14 1P Separators to prevent the electrodes from touching each another.



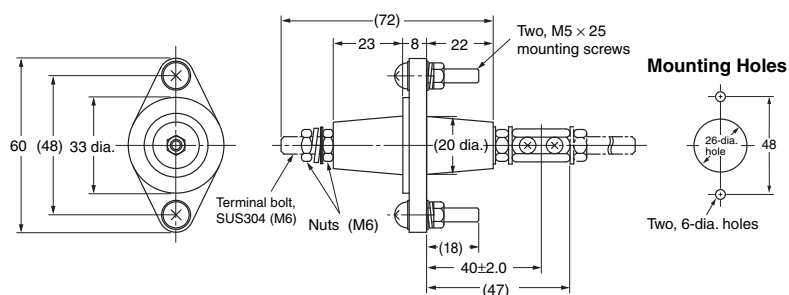
Dimensions

Note: All units are in millimeters unless otherwise indicated.

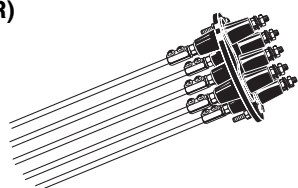
BF-1



Weight: approx. 75 g



BF-3(R)
BF-5(R)

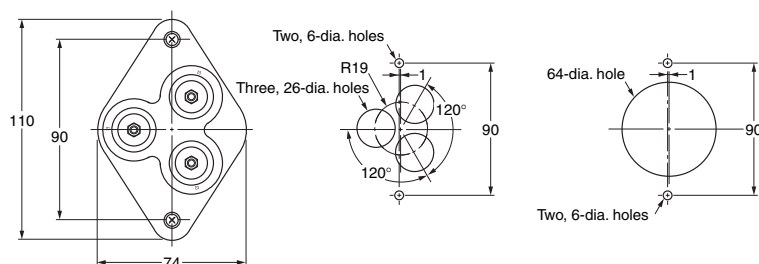


Technical drawing of the rear view of the terminal block. The drawing shows the mounting structure with the following labels and dimensions:

- Terminal bolt, SUS304 (M6)**: Points to the bolt on the left side.
- Nut (M6)**: Points to the nut on the top bolt.
- Two, M5 × 25 mounting screws**: Points to the screws on the right side.
- Spring washer**: Points to the washer on the right side.
- Dimensions**:
 - 20 dia**: Diameter of the central mounting hole.
 - (49)**: Total width of the terminal block.
 - (72)**: Total width including mounting tabs.
 - 23**: Distance from the left edge to the center of the terminal block.
 - 8**: Thickness of the terminal block.
 - (18)**: Distance from the center of the terminal block to the center of the mounting hole.
 - 22**: Distance from the center of the terminal block to the center of the mounting hole.
 - 40±2.0**: Distance from the center of the terminal block to the center of the mounting hole.
 - (47)**: Distance from the right edge to the center of the mounting hole.

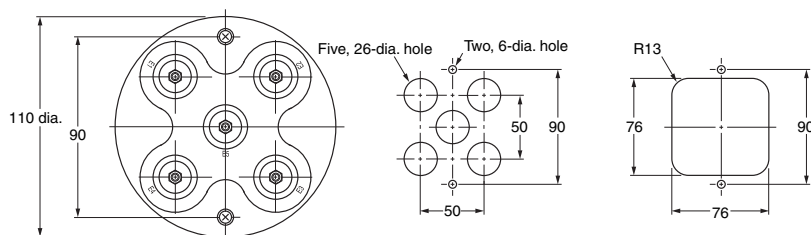
BF-3(R)

Weight
BF-3: approx. 210 g
BF-3R: approx. 215 g

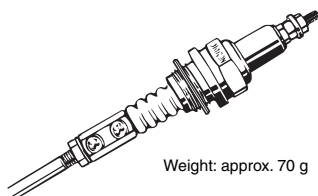


BF-5(R)

Weight
BF-5: approx. 360 g
BF-5R: approx. 365 g

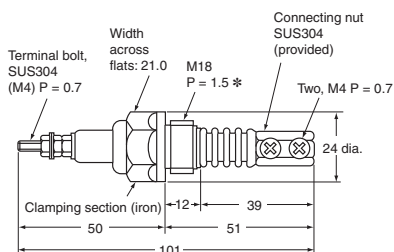


BS-1(S)

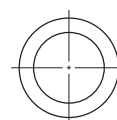


Weight: approx. 70 g

BS-1



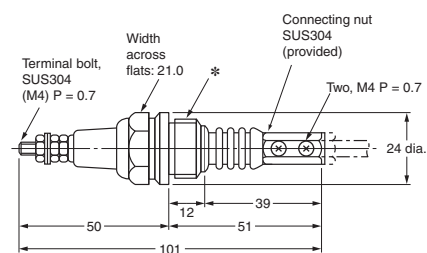
Mounting Holes



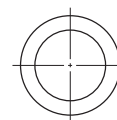
M18 P = 1.5 (fine screw thread)

*. If it is not necessary to seal the tank inside and outside.
The Electrode can be secured with F03-17 Nuts.
(Refer to page 1.)

BS-1S
BS-1S-1
BS-1S2



Mounting Holes

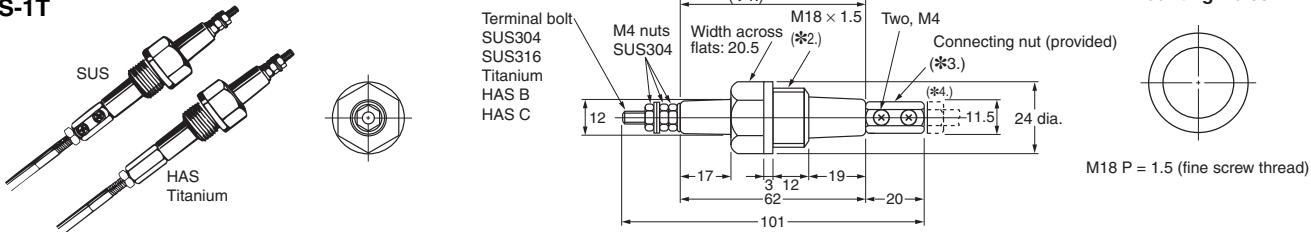


M18 P = 1.5 (fine screw thread)

✻

BS-1S	BS-1S-1	BS-1S2
M18 P=1.5	Taper pipe thread PT 1/2 JIS B 0203	M18 P=1.5

BS-1T



Material	SUS304	SUS316	Titanium	HAS B	HAS C
Weight	Approx. 55 g	Approx. 55 g	Approx. 45 g	Approx. 65 g	Approx. 60 g

- *1. All of the clamping section is made of fluororesin.
- *2. If it is not necessary to seal the tank inside and outside. The Electrode can be secured with F03-18 Nuts. (Refer to page 1.)
- *3. The material of the Connecting Nuts is the same as the material of the BS-1T. Connecting Nuts made of HAS B, HAS C, or titanium, however, do not have the screw or screw hole labeled 2-M4 in the figure.
- *4. The section shown with dotted lines is sold separately.

■ Safety Precautions

Refer to *Safety Precautions for All Level Controllers*.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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