

BR-OV-B...

Product Description

A BR-OV-B... bracket / coupling kit reliably mounts any Hauck B, F, G, H, or K oil valve to a Siemens SQM... actuator.

Components Supplied

Figure 1 shows the components supplied with a BR-OV-B... bracket / coupling kit:

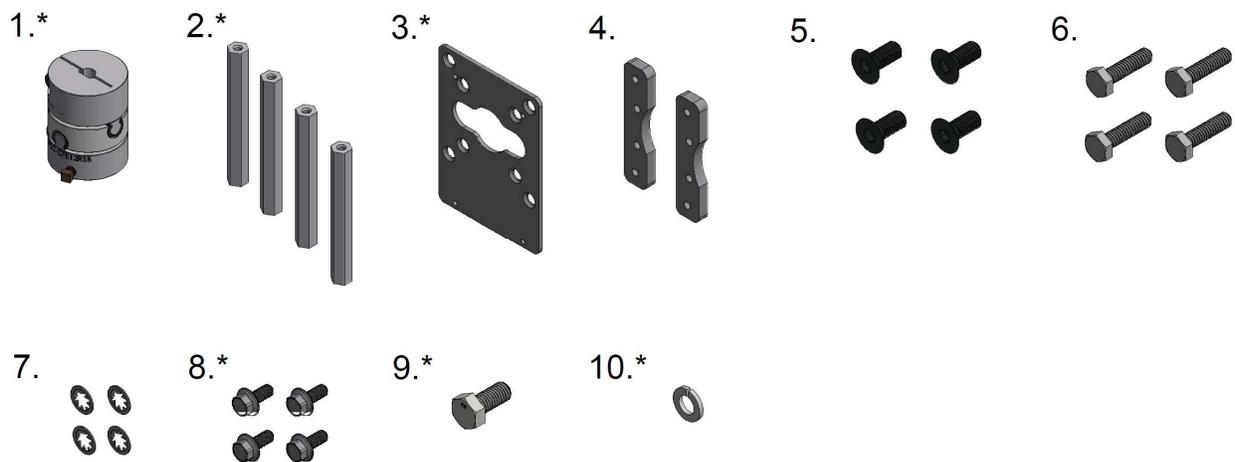


Figure 1: Components Supplied with a BR-OV-B... Bracket / Coupling Kit

- | | |
|---|--|
| 1. Shaft coupling | 6. (4) 1/4"-20 x 1" hex head cap screws |
| 2. (4) hex standoffs | 7. (4) 1/4" internal tooth lock washers |
| 3. Actuator mounting bracket | 8. (2) or (4) M5 x 12mm thread-forming screws |
| 4. (2) valve mounting brackets | 9. M8 x 18mm hex head cap screw (BR-OV-B-4-1 or BR-OV-B-7-2 for SQM5... actuator only) |
| 5. (4) 1/4"-20 x 3/4" flat socket head cap screws | 10. M8 split lock washer (BR-OV-B-4-1 or BR-OV-B-7-2 for SQM5... actuator only) |

* Component varies depending on the BR-OV-B... bracket / coupling kit. Image shown in Figure 1 may not be representative of actual component.

Recommended Installation Tools

The following tools are recommended for installing the BR-OV-B... bracket / coupling kit:

- Crescent wrench
- 7/16" open-end wrench
- File
- Purple Loctite
- 5/32" hex key
- 8mm socket with 6" ratchet extension (1/4" drive)
- 1/4" drive ratchet
- 13mm wrench
- 8mm wrench
- 1/4" hex key

Installation Procedure

1. Using a crescent wrench, remove the acorn nut and washer from the top of the valve stem. The cap and washer can be discarded.



Figure 2: Acorn Nut and Washer Removal

2. Using the 7/16" wrench and crescent wrench, remove the four long screws that extend through the valve body with nuts on the bottom side of the valve. These screws are highlighted in red in Figure 3 below. Keep the screws, flat washers, lock washers, and hex nuts for the next step.



Figure 3: Valve Screw Removal

Installation Procedure (continued)

- Place the (2) valve mounting brackets on top of the valve so that the two inner holes on the brackets line up with two of the empty holes in the valve. Using the 7/16" wrench and crescent wrench, and the screws, flat washers, lock washers, and hex nuts saved from the previous step, attach the brackets to the valve as shown in Figure 4 below. Tighten the screws to approximately 120 in-lb.

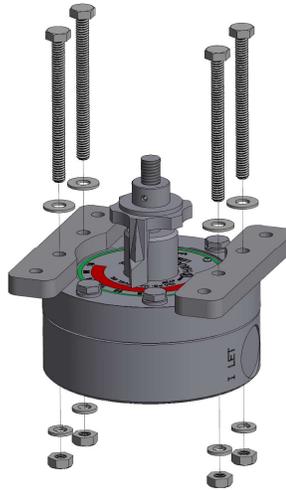


Figure 4: Bracket / Valve Assembly

- Slide the coupling over the valve stem, but do not tighten the set screws. If the coupling does not slide over the valve stem easily, gently file down the ends of the roll pin that is pressed through the valve stem. Once complete, the assembly should look like Figure 5 below.



Figure 5: Coupling Installation

Note: The set screws must be tightened before or during burner commissioning. This step is application-specific.

Installation Procedure (continued)

- Using the 7/16" wrench and crescent wrench, the (4) 1/4"-20 x 1" hex head cap screws, and the (4) 1/4" internal tooth lock washers, fasten the (4) hex standoffs to the valve mounting bracket as shown in Figure 6 below.

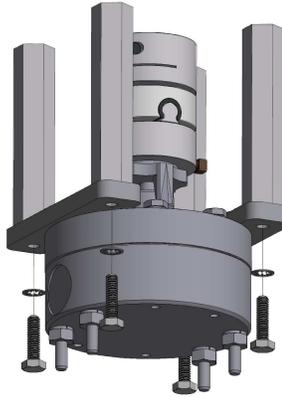


Figure 6: Standoff Installation

- Place the actuator mounting bracket on top of the (4) hex standoffs so that the (4) holes on the outer bolt circle line up with the holes in the standoffs. Note that the bracket can be mounted in four different orientations. Take care to choose the desired orientation. Place a small amount of purple Loctite on the tip of the (4) 1/4"-20 x 3/4" flat socket head cap screws. Using the 5/32" hex key and the (4) 1/4"-20 x 3/4" flat socket head cap screws, fasten the actuator mounting bracket to the standoffs.



Figure 7: Actuator Mounting Bracket Installation

Installation Procedure (continued)

- BR-OV-B-4-1 / BR-OV-B-7-2:** Place the SQM5... actuator on top of the actuator mounting bracket. Slide the M8 split lock washer over the M8 x 18mm hex head cap screw. Slide the M8 screw through the appropriate hole in the actuator mounting bracket and thread it into the bottom of the actuator. Tighten this screw using the 13mm wrench. Then, using the 8mm wrench and the (2) M5 x 12mm thread-forming screws, finish securing the actuator to the actuator mounting bracket as shown below in Figure 8.

BR-OV-B-7-1: Place the SQM... actuator on top of the actuator mounting bracket. Using the 8mm socket with 6" ratchet extension and the (4) M5 x 12mm thread-forming screws, fasten the actuator to the actuator mounting bracket as shown below in Figure 8. Take care to start the thread-forming screws as straight as possible.

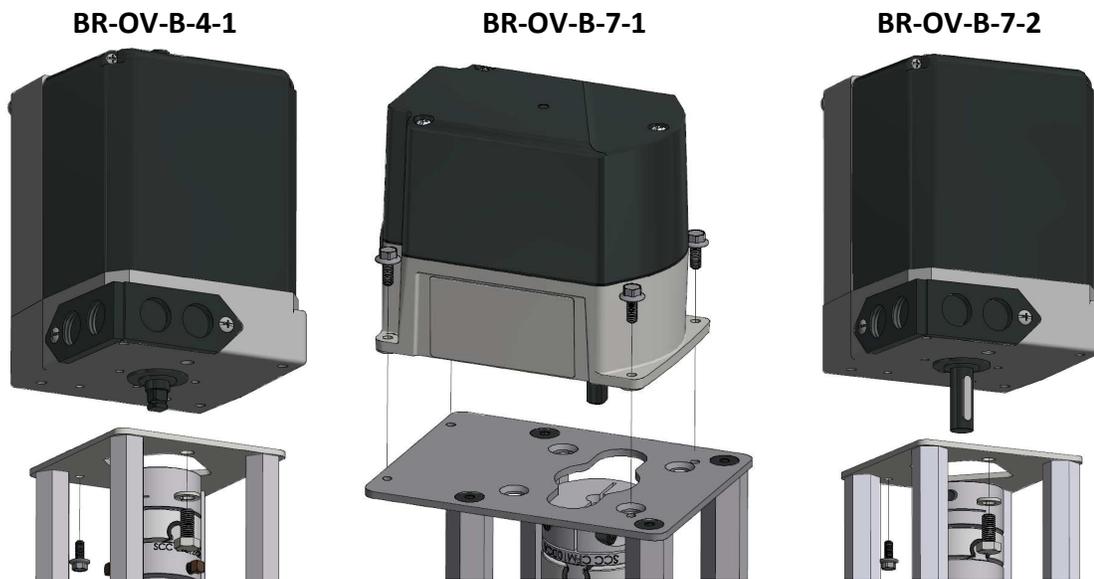


Figure 8: Actuator Installation

- Tighten the clamp screw on the coupling using the 1/4" hex key.

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