

# DVC6200 or DVC2000 Digital Valve Controller on an IEC60534-6-1 (Old NAMUR) Sliding Stem Actuator

## Mounting Instructions

D103458X012  
April 2010

Use these instructions to mount a Fisher® FIELDVUE™ DVC6200 or DVC2000 digital valve controller on an IEC60534-6-1 (old NAMUR) sliding stem actuator.

### WARNING

**Avoid personal injury or property damage from sudden release of process pressure or bursting of parts. Before performing any maintenance operations:**

- **Always wear protective clothing, gloves, and eyewear.**
- **Do not remove the actuator from the valve while the valve is still pressurized.**
- **Disconnect any operating lines providing air pressure, electric power, or a control signal to the actuator. Be sure the actuator cannot suddenly open or close the control valve.**
- **Use bypass valves or completely shut off the process to isolate the control valve from process pressure. Relieve process pressure from both sides of the control valve.**
- **Vent the pneumatic actuator loading pressure and relieve any actuator spring precompression.**
- **Use lock-out procedures to be sure that the above measures stay in effect while you work on the equipment.**
- **Check with your process or safety engineer for any additional measures that must be taken to protect against process media.**

Refer to figures 3, 4 and 5 for mounting parts identification. Refer to the DVC6200 or DVC2000 digital valve controller instruction manual for digital controller parts identification. Refer to the appropriate actuator instruction manual for actuator installation, operation, maintenance, and parts identification.

1. Isolate the control valve from the process line pressure and release pressure from both sides of the valve body. Shut off all pressure lines to the actuator, releasing all pressure from the actuator. Use lock-out procedures to be sure that the above measures stay in effect while you work on the equipment.
2. Two connector arms are provided (see figure 1), one suitable for use with small actuators and one for use with large actuators; select the appropriate one for

the actuator being used (figures 3, 4 and 5 show the size for small actuators).

3. Ensure the actuator/valve stem connector mounting face is visually square with the actuator yoke legs.

Attach the connector arm (key 7) to the stem connector using the two hex head cap screws (key 3) and plain washers (key 4), but do not tighten (see figures 3, 4 and 5).

4. Attach the mounting bracket (key 5) to the yoke leg using the appropriate hardware for the actuator mounting style.

a. Figure 3 shows pillar style mounting. For rough alignment of pillar style actuators, center the primary hole in the bracket with the approximate mid-travel position of the stem connector. Visually square up the bracket relative to the actuator yoke legs, then tighten the fasteners.

b. Figure 4 shows rib style mounting. For rib style mounting, select the primary hole for most actuators. The alternate hole may be required for small actuators.

c. Figure 5 shows plane surface style mounting.

5. Attach the magnet assembly (key 2) to the extension arm (key 1) with two pan head machine screws (key 6) but do not tighten.

6. Attach the extension arm and the magnet assembly to the connector arm using two pan head machine screws, (key 6) but do not tighten. The next step will ensure that the connector arm selected is suitable.

7. Attach the black plastic alignment template to the mounting bracket assembly by inserting the two protruding posts into the two mounting holes in the bracket and simultaneously position the magnet assembly so that it can slide into the channel in the alignment bracket. The magnet assembly should be fully in the alignment template channel so that the extension arm is contacting the back of the alignment template but not bending it. Tighten the hex head cap screws (key 3) at the stem connector and pan head machine screws (key 6) attaching the extension arm to the connector arm but do not yet tighten the pan head machine screws attaching the magnet assembly.



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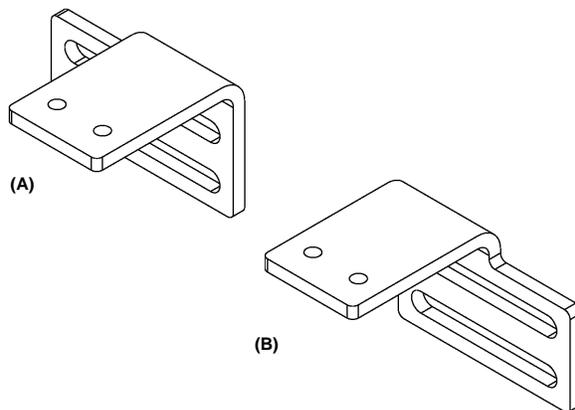
8. For an air-to-extend actuator, slide the magnet assembly (key 2) so that the bottom marking aligns with the sensor index mark on the alignment template (see figure 2). The top marking of the magnet assembly is used for air-to-retract. The mounting bracket may require vertical repositioning to get the magnet assembly in the correct location. When the magnet assembly is properly positioned, remove the alignment template and tighten the two pan head machine screws (key 6).

9. Attach the digital valve controller to the mounting bracket assembly and tighten the three hex head cap screws (key 9).

10. Check the position of the magnet assembly (key 2) in the channel of the digital valve controller housing and ensure that it is visually centered between the channel walls and has adequate clearance with the backside of the channel (approximately 3 mm).

11. Connect and calibrate the digital valve controller as described in the instruction manual or quick start guide.

For additional information concerning the mounting, setup, calibration and maintenance of the DVC6200 or DVC2000 digital valve controller, refer to the appropriate instruction manual or quick start guide.



A) CONNECTOR ARM FOR LARGER SIZE ACTUATOR  
B) CONNECTOR ARM FOR SMALLER SIZE ACTUATOR

Figure 1. Connector Arm

## Note

**Neither Emerson, Emerson Process Management, nor any of their affiliated entities assumes responsibility for the selection, use and maintenance of any product. Responsibility for the selection, use and maintenance of any product remains with the purchaser and end user.**

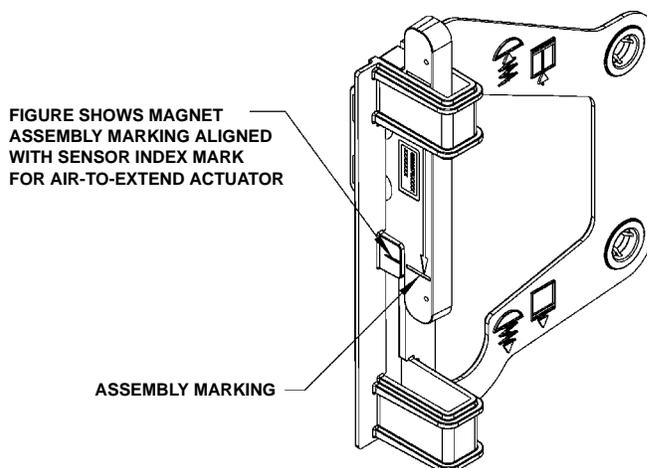


Figure 2. Alignment Template

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PART LIST		
KEY	QTY	DESCRIPTION
1	1	EXTENSION ARM
2	1	MAGNET ASSEMBLY
3	2	M6X1X12 HEX HD CAP SCREW
4	2	M6 PLAIN WASHER
5	1	MOUNTING BRACKET
6	4	M4X0.7X10 PAN HD MACHINE SCREW
7	1	CONNECTOR ARM (CHOOSE ONE)
8	4	M8 LOCK WASHER
9	3	M8X1.25X16 HEX HD CAP SCREW
10	4	M8 HEX NUT
11	2	M8X1.25 U-BOLT
--	1	ALIGNMENT TEMPLATE

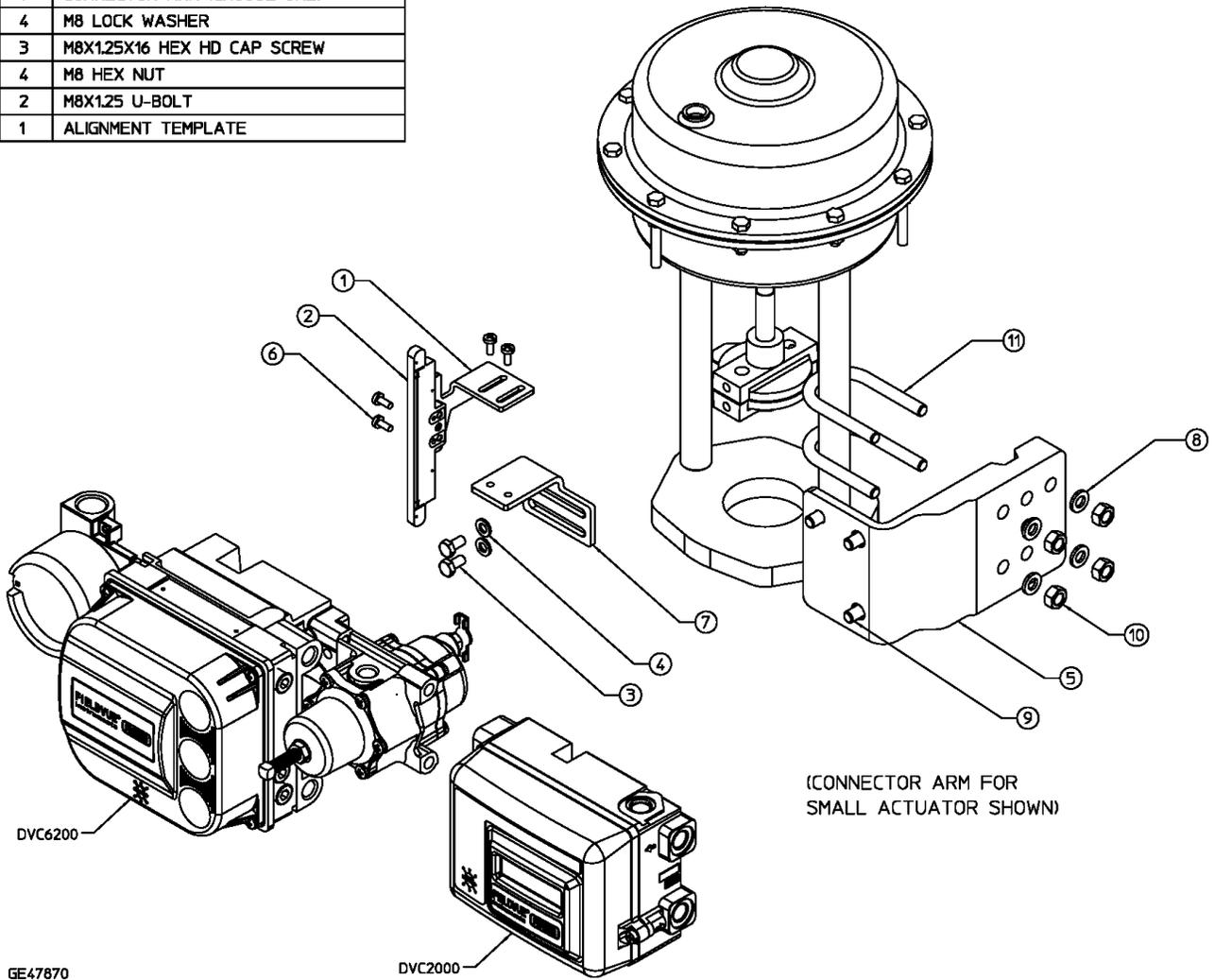


Figure 3. Mounting Parts Identification for Pillar Style Mounting

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KEY	QTY	DESCRIPTION
1	1	EXTENSION ARM
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3	2	M6X1X12 HEX HD CAP SCREW
4	2	M6 PLAIN WASHER
5	1	MOUNTING BRACKET
6	4	M4X0.7X10 PAN HD MACHINE SCREW
7	1	CONNECTOR ARM (CHOOSE ONE)
8	1	M8 LOCK WASHER
9	3	M8X1.25X16 HEX HD CAP SCREW
10	1	M8X1.25X25 HEX HD CAP SCREW
--	1	ALIGNMENT TEMPLATE

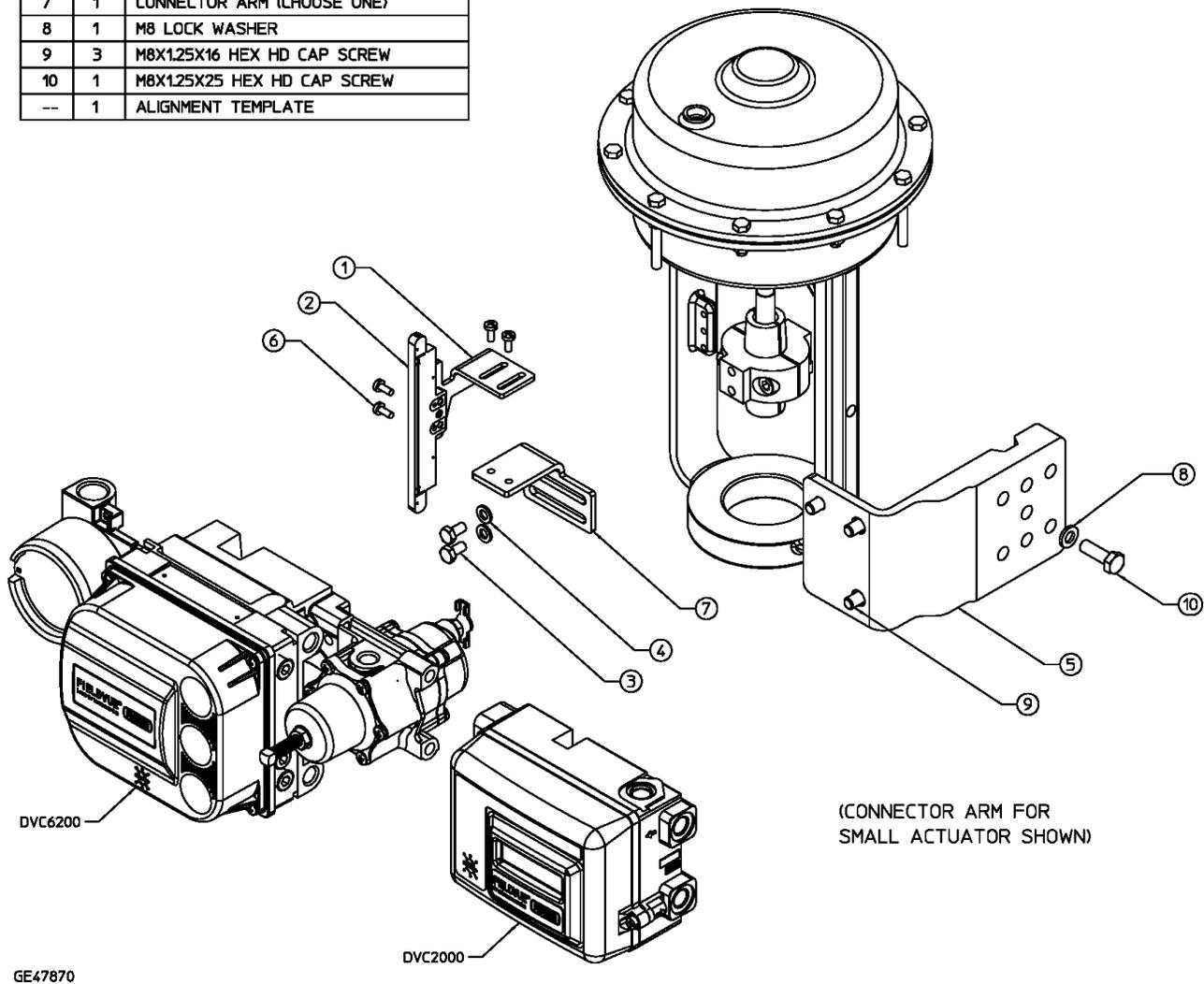


Figure 4. Mounting Parts Identification for Rib Style Mounting

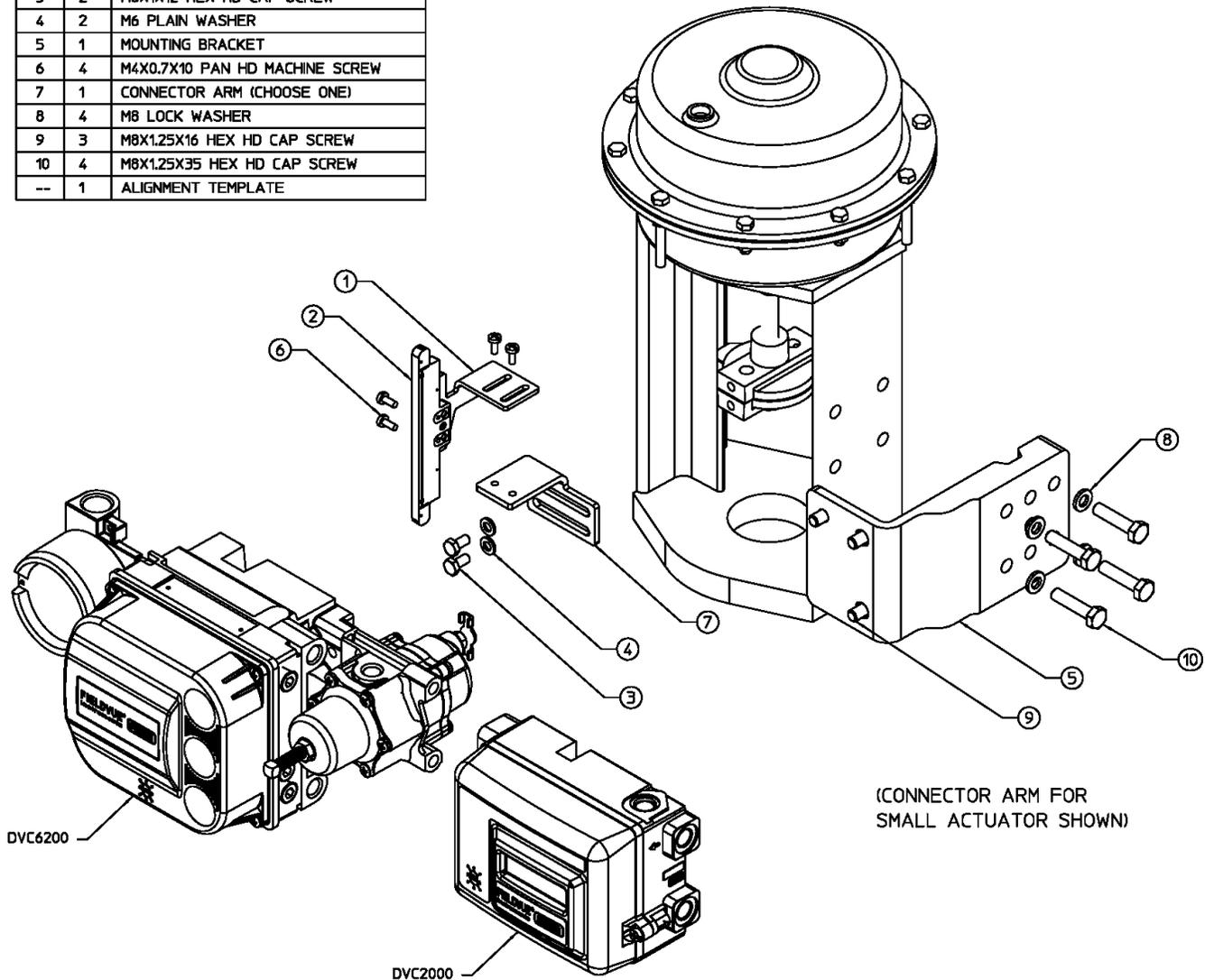
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3	2	M6X1X12 HEX HD CAP SCREW
4	2	M6 PLAIN WASHER
5	1	MOUNTING BRACKET
6	4	M4X0.7X10 PAN HD MACHINE SCREW
7	1	CONNECTOR ARM (CHOOSE ONE)
8	4	M8 LOCK WASHER
9	3	M8X1.25X16 HEX HD CAP SCREW
10	4	M8X1.25X35 HEX HD CAP SCREW
--	1	ALIGNMENT TEMPLATE



GE47870

Figure 5. Mounting Parts Identification for Plane Surface Style Mounting

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