

Mounting Instructions

D103456X012
January 2012

DVC6200 or DVC2000 Digital Valve Controller on Baumann Sliding-Stem Actuators

Use these instructions to mount a Fisher® FIELDVUE™ DVC6200 or DVC2000 digital valve controller on Baumann™ sliding-stem actuators.

⚠ WARNING

Avoid personal injury or property damage from sudden release of process pressure or bursting of parts. Before performing any installation 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 figure 3 and the parts list for mounting parts identification. Refer to the DVC6200 or DVC2000 digital valve controller quick start guide or instruction manual for digital valve 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. Attach the connector arm (key 3) to the valve stem (see figure 3). Slide the connector arm toward the valve stem until the slotted opening is hard against the valve stem. Leave the valve stem jam nuts finger tight against the connector arm.

3. Attach the magnet assembly (key 6) to the connector arm with the two pan head machine screws (key 4) and tighten (the magnet assembly can be inverted 180° without effect). The size 32 - 70 connector arm has two sets of holes for attaching the magnet assembly. Use the table below to select the correct hole set (see figure 1 for Baumann actuator connector arms and hole set identification).

Size 32, 54 and 70 Air-to -Retract	Use Hole Set 1
Size 54 Air-to-Extend	Use Hole Set 1
Size 32 Air-to-Extend	Use Hole Set 2

Note

The above table is only for the 25MM feedback array. For the 19MM feedback array use the appropriate hole set in the connector arm as per requirement.

4. Attach the mounting bracket (key 2) to the actuator yoke with the hex head cap screw (key 1) and tighten.

5. Attach the black alignment template (figure 2) to the mounting bracket assembly by inserting the two protruding posts into the two holes in the mounting bracket and simultaneously positioning the magnet assembly so that it can slide into the channel of the alignment template. The magnet assembly should be fully in the alignment template channel so that the connector arm is contacting the back of the alignment template but not bending it outward (see figure 3). Tighten the valve stem jam nuts while holding the connector arm in position. The sensor index mark on the alignment template can be ignored because no vertical adjustment is necessary for Baumann actuators.

6. Remove the alignment template from the mounting bracket. Detach the mounting bracket (key 2) from the yoke by unfastening the hex head cap screw (key 1).

7. Attach the digital valve controller to the mounting bracket (key 2) and tighten the three hex head socket screws (key 5).



8. Attach the digital valve controller assembly with the mounting bracket to the yoke of actuator by tightening the hex head cap screw (key 1).

9. Check the position of the magnet assembly 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).

10. Connect and calibrate the instrument as described in the appropriate instruction manual or quick start guide.

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

Figure 1. Connector Arms for Baumann Actuators

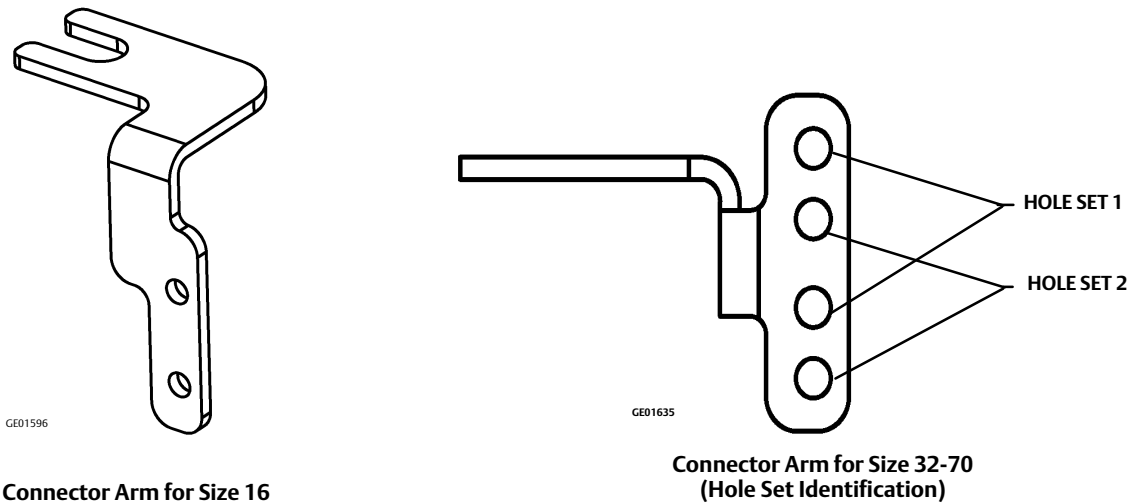
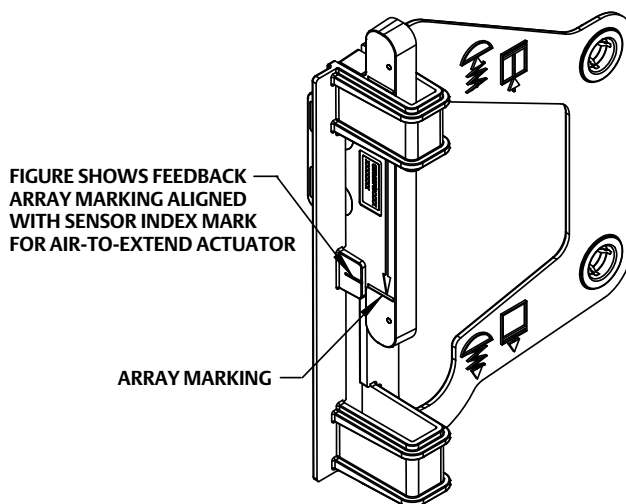


Figure 2. Alignment Template



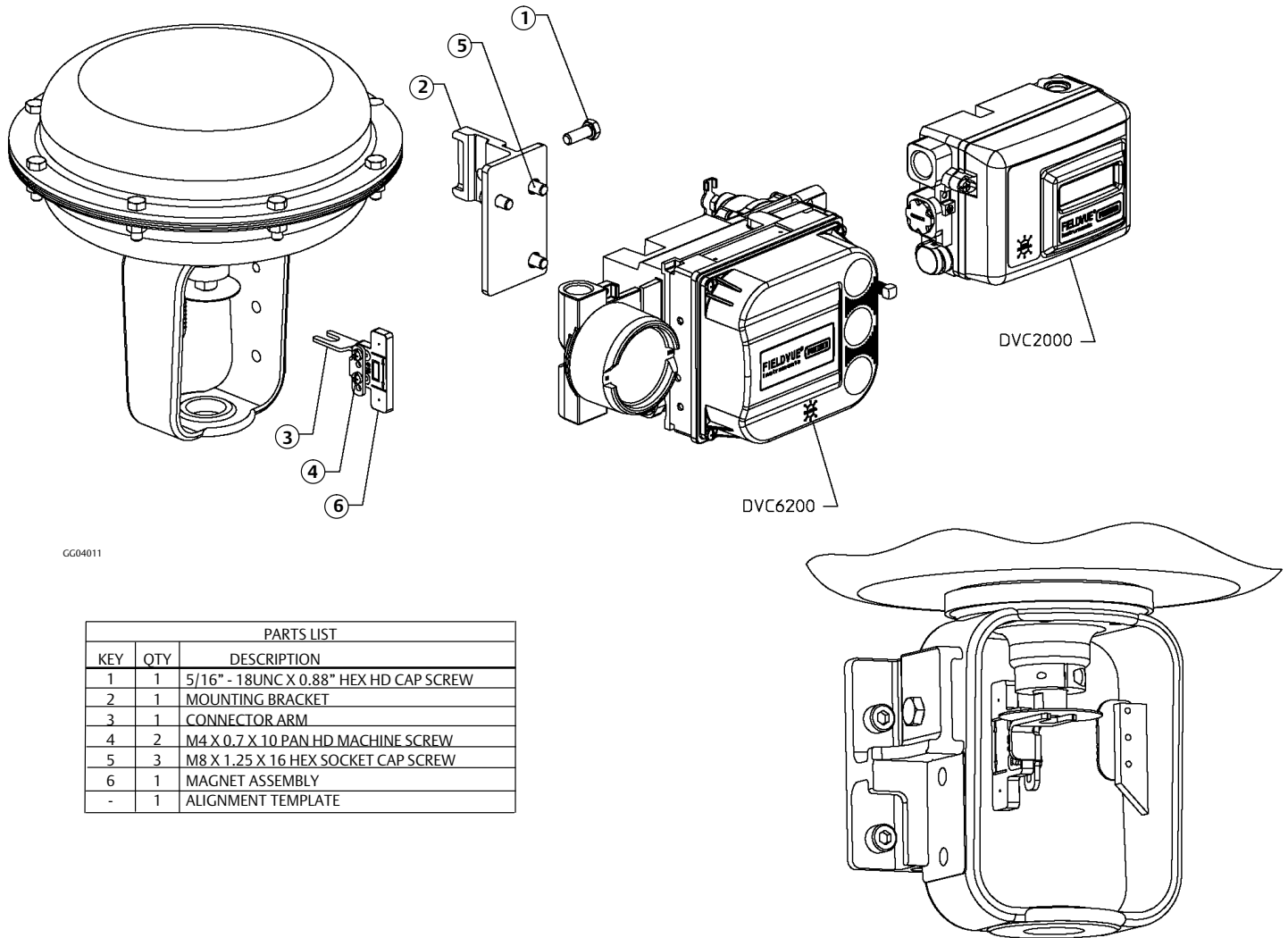
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Figure 3. Mounting Parts Identification



GG04011

PARTS LIST		
KEY	QTY	DESCRIPTION
1	1	5/16" - 18UNC X 0.88" HEX HD CAP SCREW
2	1	MOUNTING BRACKET
3	1	CONNECTOR ARM
4	2	M4 X 0.7 X 10 PAN HD MACHINE SCREW
5	3	M8 X 1.25 X 16 HEX SOCKET CAP SCREW
6	1	MAGNET ASSEMBLY
-	1	ALIGNMENT TEMPLATE

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