



# 600 Series Electric Actuator Mounting Instructions to 76, 82, 86, 96, & 89 Series Ball Valves

2 Otter Court, Raymond, New Hampshire 03077 • Tel. (603) 895-4761 • FAX (603) 895-6785 • www.geminivalve.com

These instructions detail the procedure for installing a Gemini 600 Series electric actuator on a drive-key equipped Gemini 76, 82, 86, 96 & 89 Series ball valve. Valves may be purchased with the drive-key assembled or may be retrofitted with a drive-key conversion kit.

76, 82, 86 & 96 Series:

1. Install locator screws in bottom of the electric actuator and tighten with 4mm hex drive torqued to 30-40 inch lbs. (Figure 1)

2. Place the mounting bracket on actuator so that locator screws fit into blind holes on bottom of bracket.

3. Check to make sure the bracket is seated flush against bottom of electric actuator mounting pad. Install bracket mounting screws with 5mm hex drive torqued to 65-75 inch lbs.

4. Check to make sure that valve is in the closed position and that the stem nut is in the proper orientation with respect to the drive key (Figure 2). Note: Valve will not engage driver unless stem nut is in proper orientation.

5. Verify that the actuator is in the closed position. The override handle should be parallel to the short side of the unit as illustrated.

6. Install the valve into the mounting bracket as shown in Figure 3. Engagement of the valve and drive mechanism should require little effort. The top of the valve should lie flat in the appropriate step so that the bracket straddles the sides of the hex to resist any rotation.

7. Position the retainer on the underside of the valve and fasten to the actuator bracket with the two hex head cap screws. Alternate tightening the screws to ensure balanced tension and to avoid skewing of the valve retainer strap relative to the valve body. A gap should remain between the lower surface of the bracket and the retainer 'ears' when the assembly is complete (Figure 4). Your Gemini actuated valve is now ready for service.

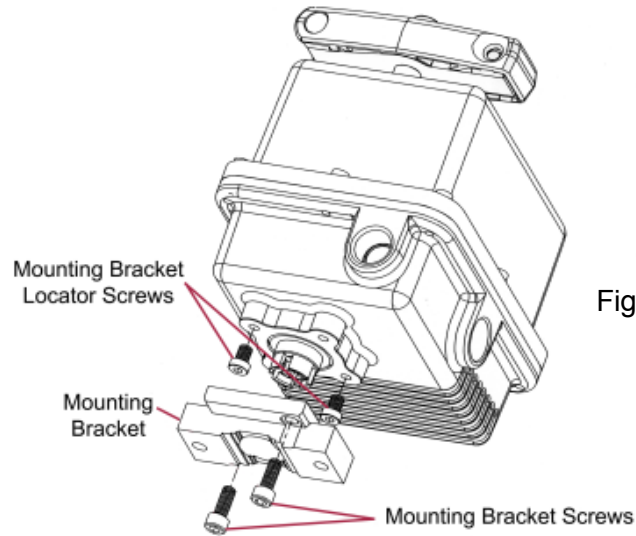


Figure 1



Figure 2

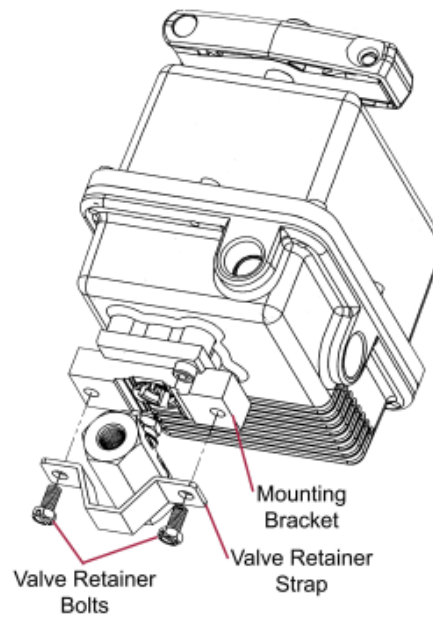


Figure 3

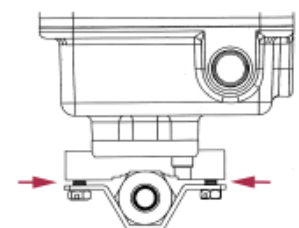


Figure 4

89 Series:

1. Install locator screws in bottom of the electric actuator and tighten with 4mm hex drive torqued to 30-40 inch lbs. (Figure 1)

2. Place the mounting bracket on actuator so that locator screws fit into blind holes on bottom of bracket.

3. Check to make sure the bracket is seated flush against bottom of electric actuator mounting pad. Install bracket mounting screws with 5mm hex drive torqued to 65-75 inch lbs. .

4. Check to make sure that valve is in the closed position and that the stem nut is in the proper orientation with respect to the drive key (Figure 2). Note: Valve will not engage driver unless stem nut is in proper orientation.

5. Verify that the actuator is in the closed position. The override handle should be parallel to the short side of the unit as illustrated.

6. Install the valve into the mounting bracket as shown in Figure 3. Engagement of the valve and drive mechanism should require little effort. Install valve mounting screws. Your Gemini actuated valve is now ready for service.

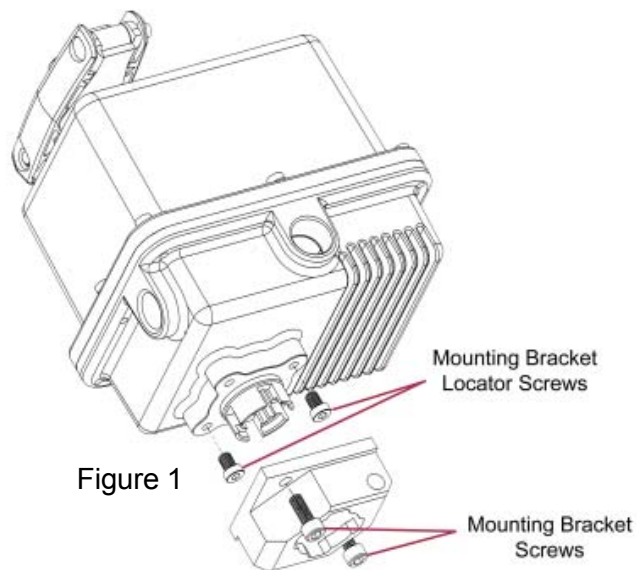


Figure 2

