Mounting 83 Series Ball Valve to 130/150 Series Pneumatic Actuator

Tool list: Hex key: 9/64 in., 3/16 in., 3/32 in.
Torque wrench capable of 100 in.·lbs (11.3 N·m)
Open-end or crescent wrench: 1 1/8 in.

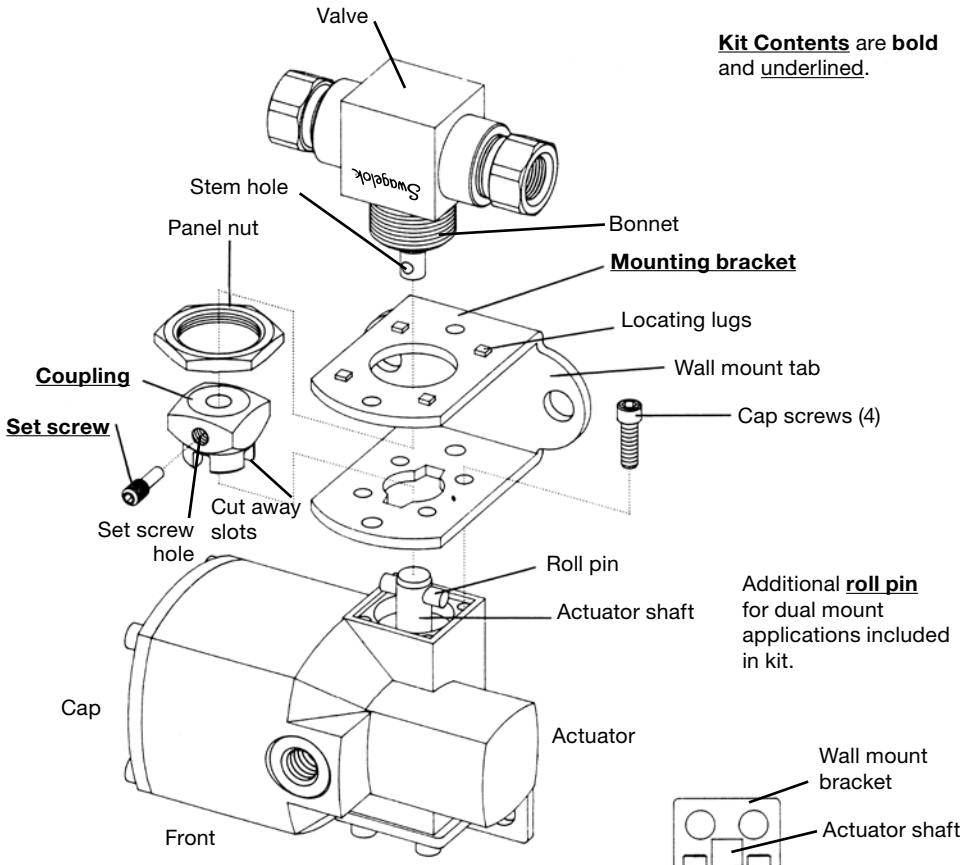
⚠ WARNING
Before servicing any installed valve, you must
- **depressurize system**
- **cycle valve**
- **purge the valve**

⚠ WARNING
Residual material may be left in the valve and system.

⚠ CAUTION
Actuated assemblies must be properly aligned and supported. Improper alignment or inadequate support of the actuated assembly may result in leakage or premature valve failure.

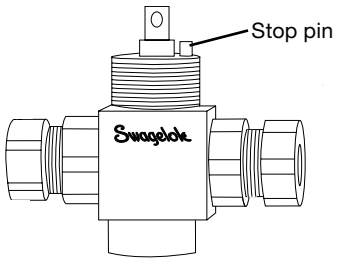
Dual mounted assemblies: Remove **wall mount bracket** and press roll pin into the **actuator shaft**. Repeat the following instructions for each assembly.

1. Put valve in the following position:
   2-way, normally open and double acting assemblies: open
   2-way, normally closed assemblies: closed
   3-way: position the open orifice opposite the stop pin.
2. Remove the set screw (not shown). Remove the handle (not shown) and **panel nut**.
3. Remove the four **cap screws** from the **actuator**. Place the **mounting bracket** over the **roll pin** and position the **wall mount tab** toward the **rear** of the actuator.
4. Attach the **mounting bracket** with the four **cap screws**. Tighten cap screws to: 131/151 series, 50 in.·lbs (5.6 N·m, 58 cm·kg); 133/153 series, 75 in.·lbs (8.4 N·m, 86 cm·kg).
5. Set the **coupling** on the **roll pin**.
   Normally open: Orient coupling **set screw hole** towards the **front** of the actuator.
   Normally closed: Orient coupling **set screw hole** towards the actuator **cap**.
6. Place **panel nut** on the **coupling**.
7. Align the coupling **set screw hole** with the valve **stem hole**. Insert the **valve** through the **mounting bracket**, **panel nut**, and **coupling.** Center the valve **bonnet** between the **locating lugs** with the marked side of the valve facing the front of the actuator.
8. Thread the **panel** nut onto the valve **bonnet**. Tighten to 100 in.·lbs (11.3 N·m, 115 cm·kg).
9. Slide **set screw** through coupling set screw hole and tighten to 15 in.·lb (1.7 N·m, 17 cm·kg)).
10. Test for proper function and operation.

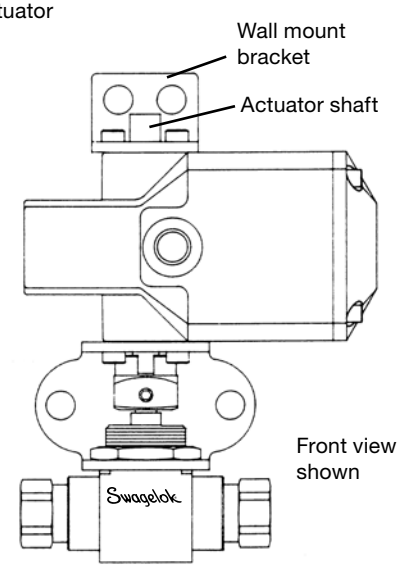


Kit Contents are **bold** and underlined.

Additional **roll pin** for dual mount applications included in kit.



83 series 3-way valve



Front view shown

SS-83TF4-31D

Translations available on **www.swagelok.com**

Mounting 83 Series Ball Valve to 140 Series Electric Actuator

Tool list: Hex key: 9/64 in., 3/32 in.
Torque wrench capable of 100 in.·lbs (11.3 N·m)
Open-end or crescent wrench: 1 1/8 in.

⚠ WARNING
Before servicing any installed valve, you must
- **depressurize system**
- **cycle valve**
- **purge the valve**

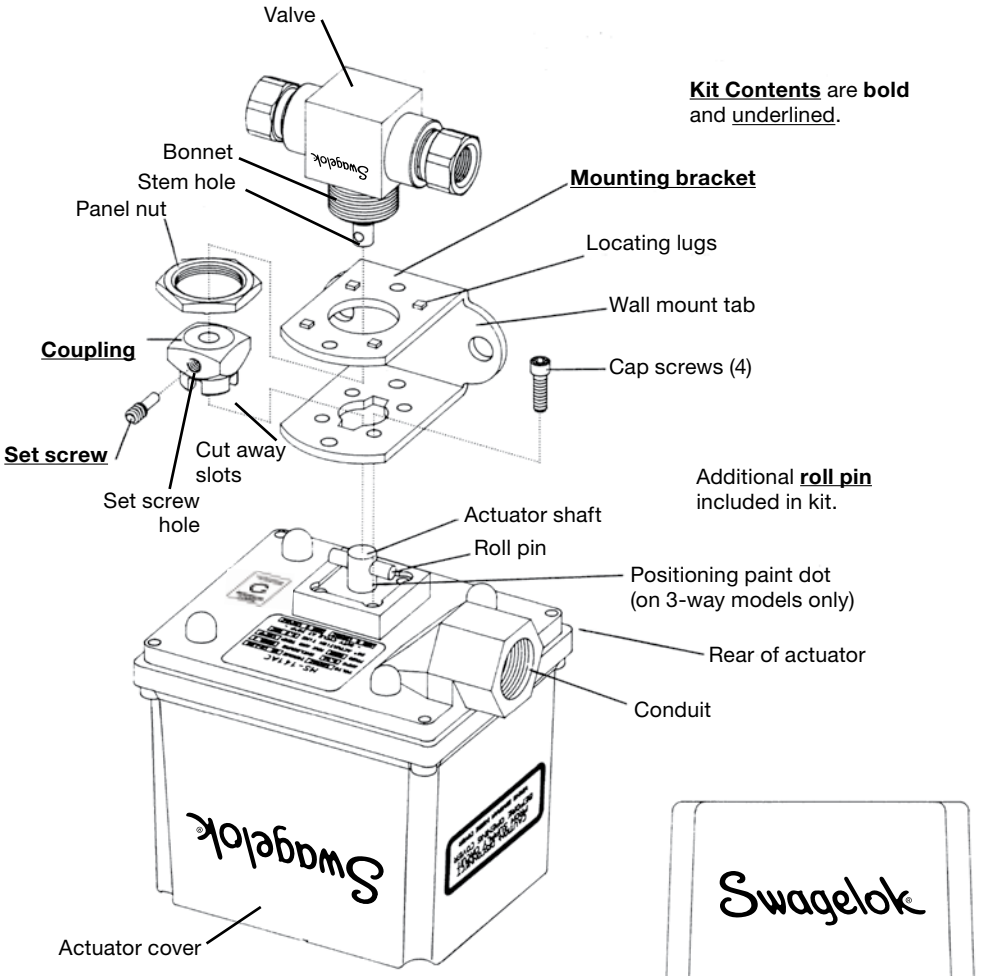
⚠ WARNING
Residual material may be left in the valve and system.

⚠ CAUTION
Actuated assemblies must be properly aligned and supported. Improper alignment or inadequate support of the actuated assembly may result in leakage or premature valve failure.

⚠ CAUTION
Do not use these actuators on vented ball valves. The drive shaft of these actuators rotates in one direction.

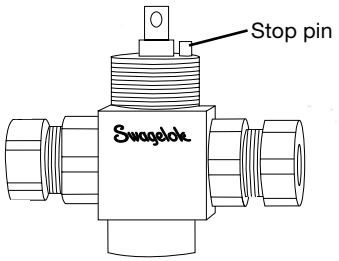
⚠ Not CE marked.

1. Put **valve** in the following position:
   2-way: open
   3-way: position the open orifice opposite the stop pin.
2. Remove the set screw (not shown). Remove the handle (not shown) and **panel nut**.
3. 3-way valves only, the **positioning paint dot** on the **actuator shaft** should be located on the **conduit** side of the actuator.
4. Remove the four **cap screws** from the **actuator**. Place the **mounting bracket** over the **roll pin** and position the **wall mount tab** toward the rear of the actuator.
5. Attach the **mounting bracket** with the four **cap screws**. Tighten cap screws to 50 in.·lbs (5.6 N·m, 58 cm·kg).
6. Set the **coupling** on the **roll pin** with the coupling **set screw hole** towards the front of the actuator.
7. Place **panel nut** on the **coupling**.
8. Align the coupling **set screw hole** with the valve **stem hole**. Insert the **valve** through the **mounting bracket**, **panel nut**, and **coupling.** Center the valve **bonnet** between the l**ocating lugs** with the marked side of the valve facing the front of the actuator.
9. Thread the **panel nut** onto the valve **bonnet**. Tighten to 100 in.·lbs (11.3 N·m, 115 cm·kg).
10. Slide the **set screw** through coupling **set screw hole** and tighten to 15 in.·lb (1.7 N·m, 17 cm·kg).
11. Test for proper function and operation.

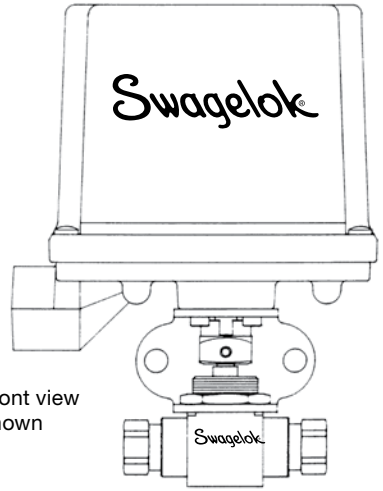


Kit Contents are **bold** and underlined.

Additional **roll pin** included in kit.



83 series 3-way valve



SS-83TF4-41AC

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