

TT2 Series Valve Maintenance Instructions

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| Kit Contents: | Nylon Lock Nut | Inside Piston O-ring (size 006) |
| | Washer | Outside Piston O-ring (size 016) |
| | Piston | 2 - Outside Gland O-ring (size 016) |
| | Upper Gland | 2 - Inside Gland O-ring (size 007) |
| | Lower Gland | Stem Vent O-ring (size 009) |
| | Stem Assembly | 2 - Communication O-rings (size 007 for |
| | Alignment Pin | TT2 bodies, size 006 for T2 bodies) |
| | Alignment Pin Insert | Lubricant |
| | Material Safety Data Sheet | |
| | Instruction Sheet | |

WARNING: Before servicing any installed valve, you must:

- depressurize system
- cycle valve

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

NOTE: It is important to refer to the exploded view drawing while following the maintenance instructions.

DISASSEMBLY

1. Loosen and remove cover plate cap screws. Set aside for later use.
2. Remove cover plate. Double acting assemblies, verify cover seal o-ring is in place on underside of the cover plate. Normally closed assemblies, remove actuator spring. Set aside for later use.
3. Loosen and remove the nylon lock nut and discard.
4. Remove washer, inside piston o-ring, and piston (with outside piston o-ring). Discard.
5. Pull out the alignment pin and alignment pin insert. Discard.
6. Pull on stem to remove stem assembly, lower gland, upper gland, gland o-rings, and stem vent o-ring from body. All components except body may be discarded.
7. Remove communication o-rings from the side of the body. Discard.

REASSEMBLY

NOTE: Size 006 O-rings are the smallest, Size 016 the largest provided in kit.

1. Slide stem vent o-ring (size 009) onto stem.
2. Lube the two outside gland o-rings and the outside piston o-ring (all size 016) and slide into outer grooves of lower gland, upper gland, and piston.
3. Slide lower gland onto stem assembly.
4. Lube the two inside gland o-rings (both size 007) and slide over stem assembly.
5. Slide upper gland onto the stem assembly until it contacts lower gland.
6. Slide stem assembly into the main bore of the body. For **TT2B1's & TT2B2's**, align o-rings on bottom of stem with the two orifices on bottom of bore. For **TT2B3's & TT2B4's**, align o-ring on bottom of stem with orifice closest to actuator inlet side of valve.
7. Slide pin insert into alignment pin. Slide pin assembly into the alignment pin bore of body, with pin insert head first.
8. Lube the inside piston o-ring (size 006) and slide into piston counter bore.
9. Slide piston, o-ring facing up, over stem assembly until it rests on stem shoulder.
10. Slide washer over stem until it contacts the inside piston o-ring.
11. Thread nylon lock nut onto stem assembly and torque with a maximum of 4 in•lbs (0.45 N•m). **DO NOT OVERTORQUE.** Verify that the nylon lock nut has contacted the washer.
12. Place an actuator spring into main bore if required. **Double acting valve** – no spring, uses a cover seal o-ring placed on underside of cover plate. **Normally closed valve** – standard spring. **High pressure normally closed valve** – one standard spring & one smaller diameter spring.
13. Install cover plate and cap screws. Torque cap screws to 30 in•lbs (3.4 N•m).
14. Place the two communication o-rings (for TT2 bodies – size 007; for T2 bodies – size 006) in the o-ring grooves on the side of the body.

