

TODO®

A Gardner Denver Product

TODO-MATIC®



Service instruction

Tank unit 2", 2½", 3", 4"

Non conical piston

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Required tools

Pneumatic nut runner

O-ring tool (TODO) 6640

Lubricants

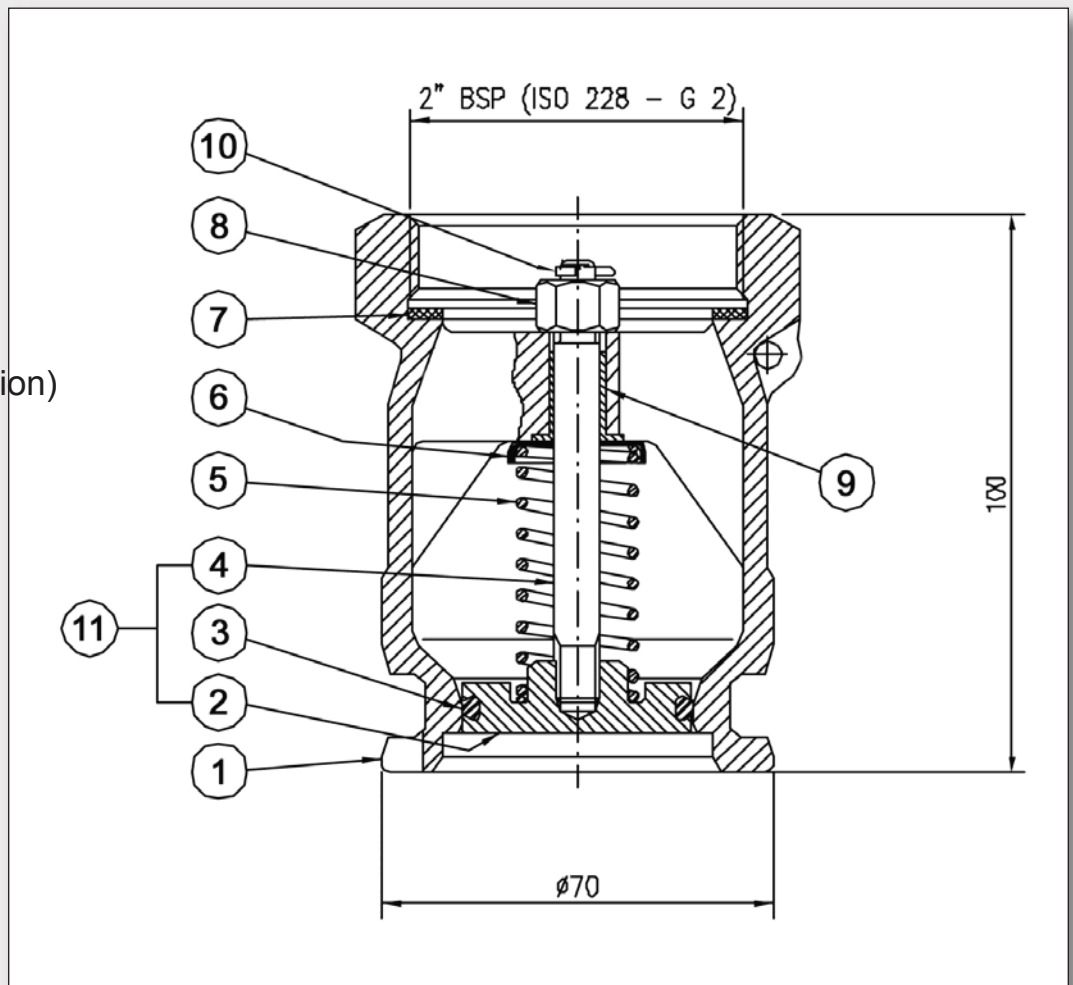
Grease: See separate lubrication instructions, please see downloads at www.todo.se

Oil: Rigging screw oil TODO 6258.



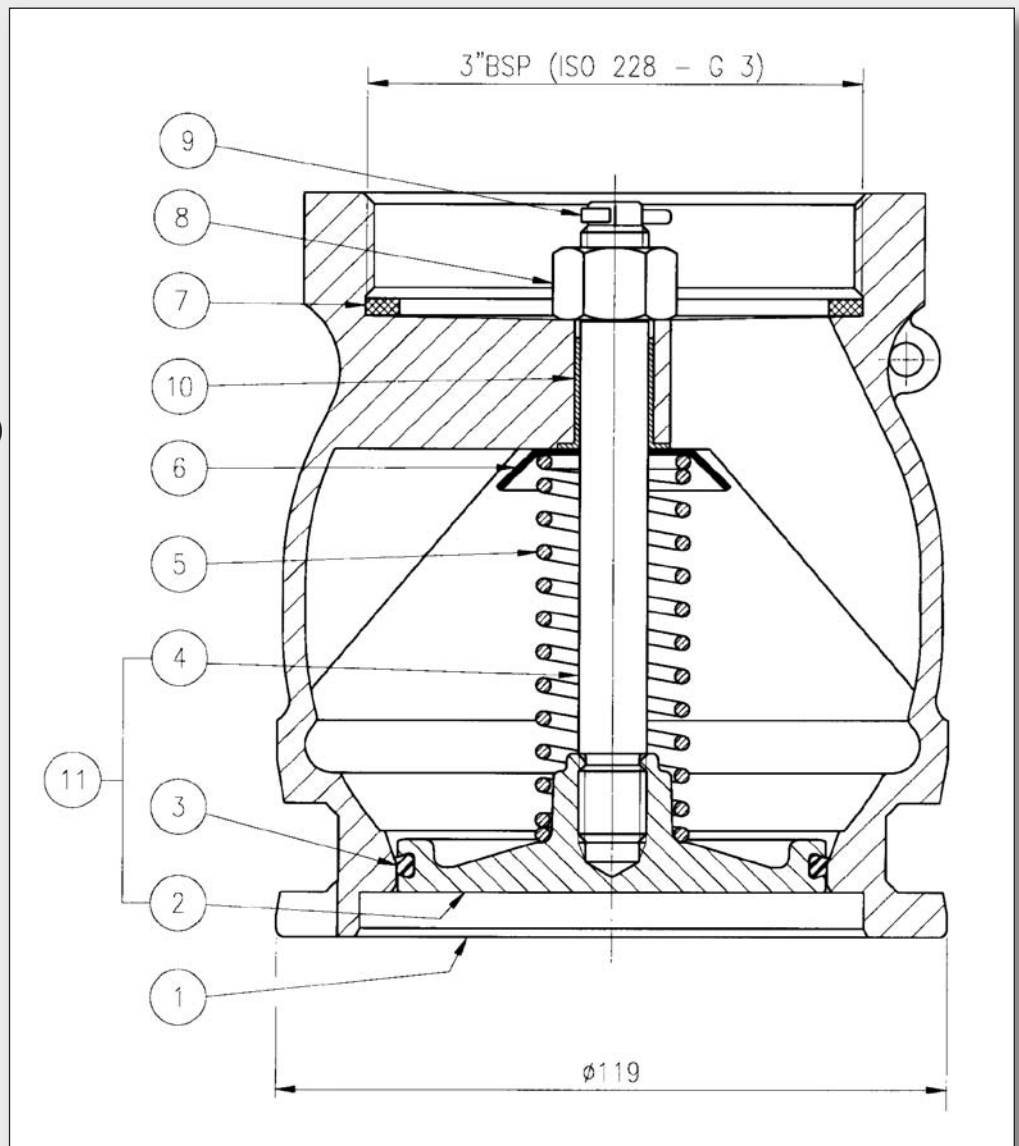
Assembly drawing 2" (Bushing (10) only on SS version)

1. Coupling body
2. Piston
3. O-ring
4. Piston spindle
5. Spring
6. Spring cap
7. Flat seal
8. Locking nut
9. Bushing (SS version)
10. Split cotter
11. Piston complete



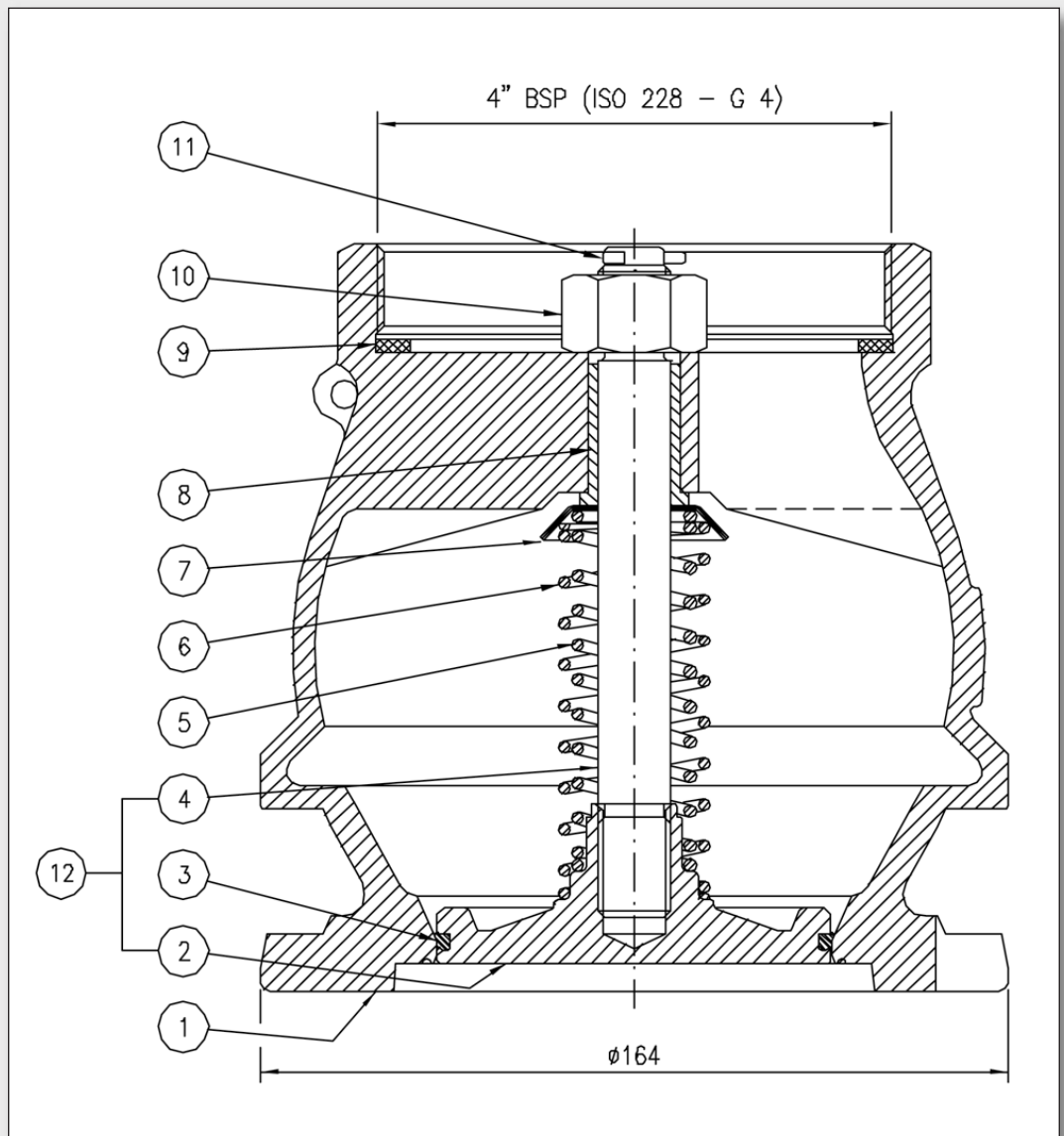
Assembly drawing 3" (Bushing (10) only on SS version)

1. Coupling body
2. Piston
3. O-ring
4. Piston spindle
5. Spring
6. Spring cap
7. Flat seal
8. Locknut
9. Split cotter pin
10. Bushing (SS version)
11. Piston complete



Assembly drawing 4" SS version

1. Coupling body
2. Piston
3. O-ring
4. Piston spindle
5. Spring
6. Spring
7. Spring cap
8. Bushing
9. Flat seal
10. Locking nut
11. Split cotter
12. Piston complete



Dismantling and assembly procedure Steps 1-3

Always make sure the coupling is decontaminated and that you work in a clean environment. Clean the parts with a cloth and a proper solvent.

1.

Remove split cotter pin.
Unscrew the locknut with a nut runner.



2.

Remove the old o-ring.
If the tank unit is a threaded (not NPT) version, please also replace the flat thread seal.



3.

Clean all parts before re-assembly, checking for wear or damage.
Lubricate a new o-ring with grease - see separate lubricating instructions.
Replace the old o-ring with the new one.
Ensure that it is not twisted, as this may cause leakage and /or premature failure of the seal
Use the TODO O-ring tool for easy removal of O-ring



Dismantling and assembly procedure Steps 4-6

4.

Mount the O-ring by initially pressing it down into its groove as indicated in the photograph.

Continue this process, pressing down on opposite sides until there are no remaining bulges and the O-ring sits smoothly in the O-ring groove.



5.

If the tank unit is a stainless steel version, please also change the teflon bushing.



6.

Place the spring and cap on the piston as indicated.

Press down the coupling body, compressing the spring, so that the piston spindle thread becomes accessible as it protrudes through the support boss in the body.



Dismantling and assembly procedure Steps 7-9

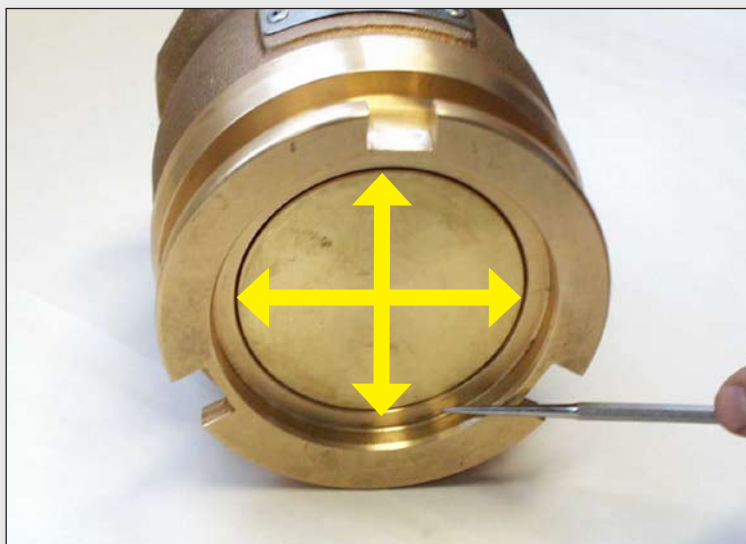
7.

Tighten the lock nut with a nut runner.



8.

Continue to tighten until the piston head becomes flush with the face of the tank unit as shown.



9.

Insert the split cotter pin in the piston spindle above the lock nut and secure.



TODO recommends the tank unit to be tested as follows:

Pressurise the tank unit with air, 2 bar, under water.

No bubbles should be visible from the piston seal.

Finally, carry out a function test. Couple and uncouple with a hose unit several times, ensuring a smooth connection.