



TH104

Cylinder Valve

Instruction Manual

▲ WARNING

Failure to follow these instructions or to properly install and maintain this equipment could result in gas leakage, fire or explosion causing property damage and personal injury or death.

Oasis products must be installed, operated and maintained by trained and competent personnel in accordance with all applicable local codes, rules and regulations in addition to the Oasis Instructions.

Oasis Engineering Ltd. will not be held liable in such circumstances where installation, operation and maintenance procedures were performed by incompetent personnel resulting in improper assembly, unsafe operation, equipment damage or personal injury.

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Instruction Manual

Warning!

High pressure gas and gas equipment can cause serious harm to both infrastructure and personnel if safety precautions are not followed.

Oasis recommends considering the use of the following PPE when working with high pressure along with any other site specific health and safety requirements:



Foot Protection



Hearing Protection



Safety Helmets



Hand Protection

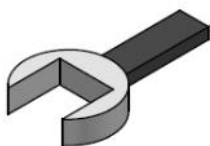


Safety Glasses



Ensure the system is vented and isolated before any installation or servicing work is carried out.

Tools Required



Spanner
(Wrenches)

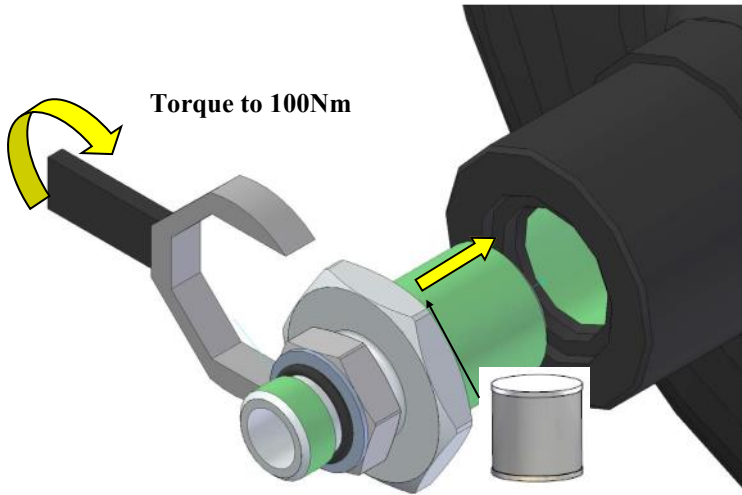


Anti Seize Grease
- Swagelok Silver Goop
- Omega 99
- or similar

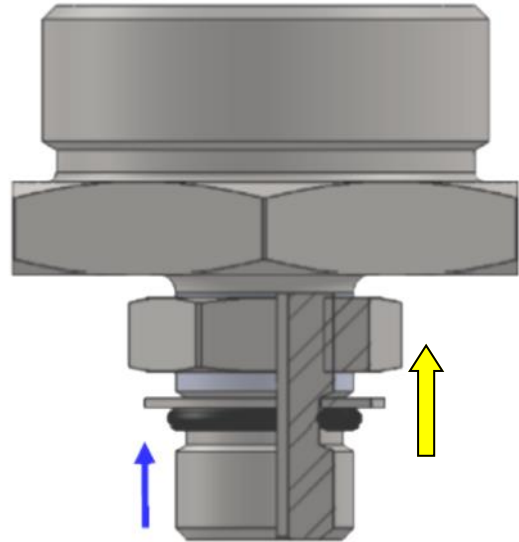


Spray bottle
(Snoop or soapy water)

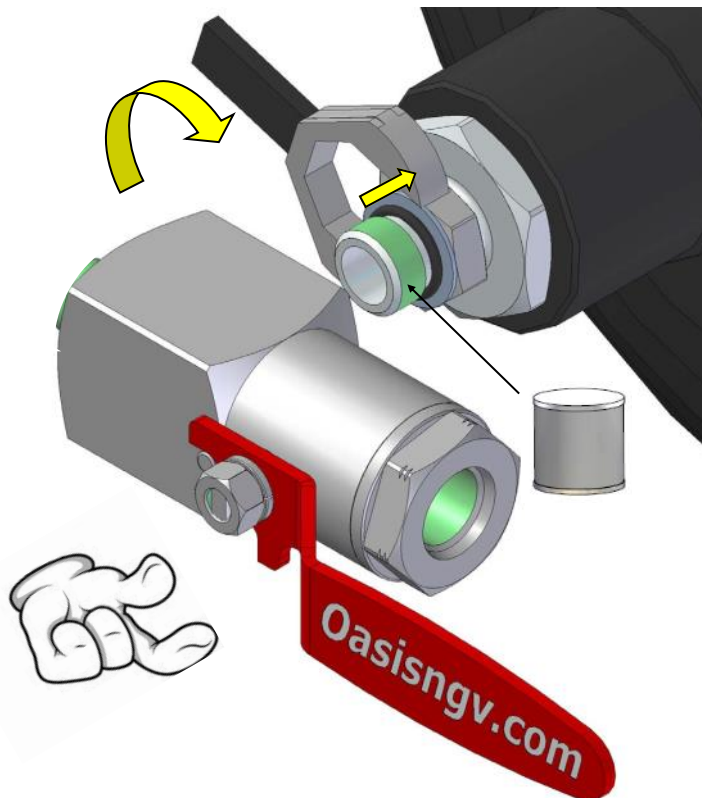
1. Attach adaptor to tank.



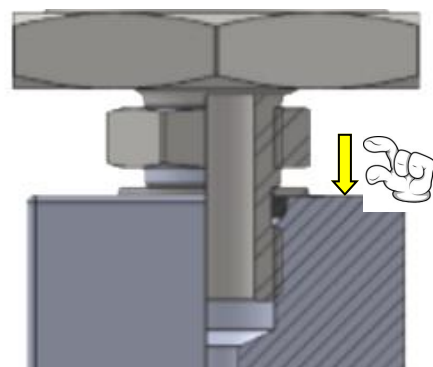
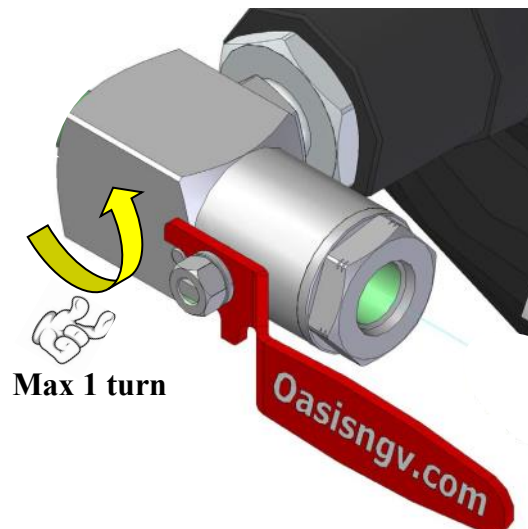
2. Back off lock nut as far as possible. Push back up washer and O-ring down as far as possible.



3. Screw body fully onto adaptor by hand.

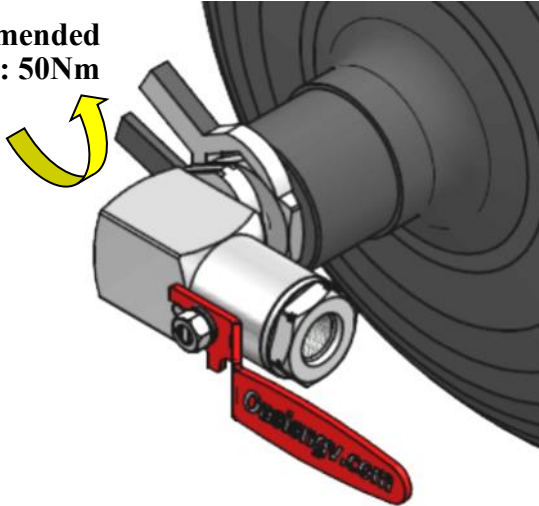


4. Align valve by unwinding no more than one turn. Screw adjustable nut out until it contacts washer.

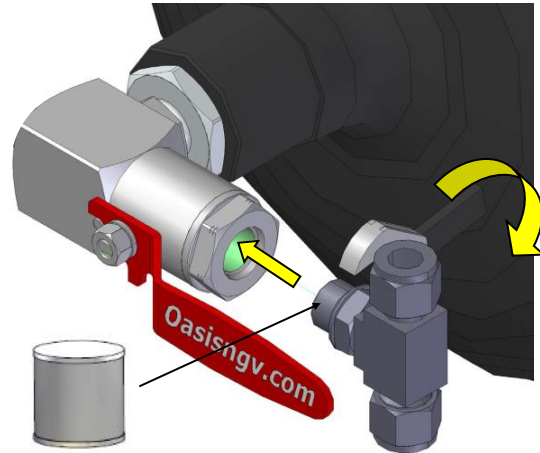


5. Using 2 wrenches, tighten lock nut to 50Nm.

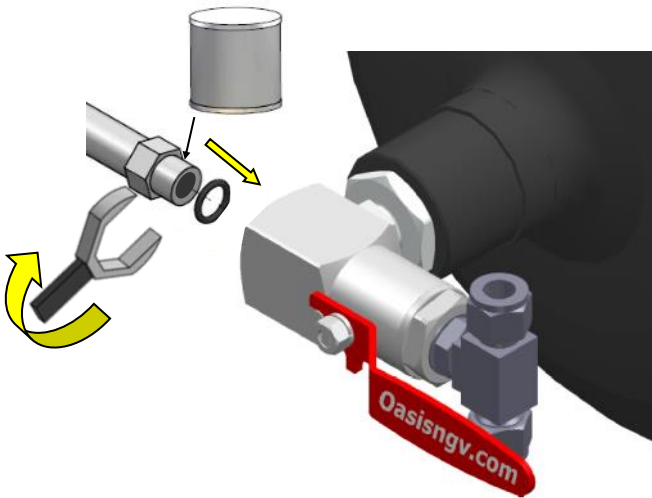
**Recommended
Torque: 50Nm**



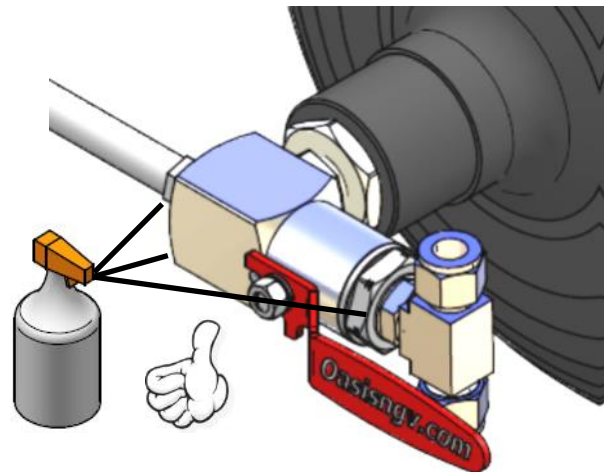
6. Attach fitting to end cap.



7. Tighten end connection.



8. Test all joints for leakage during first use with Snoop or soapy water.



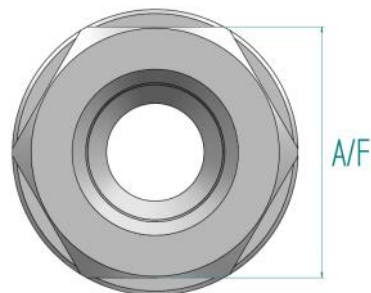
Recommended Spanners for:

Hex End Cap (A/F) = 34mm

Stem Nut (A/F) = 13mm

Adaptor (A/F) = 42mm

Adaptor Positional Hex Nut (A/F) = 26mm



1. Open



2. Closed



Important: Actuate valve 4 times before use to ensure initial sealing.

Service Kit Parts

2 x Seats



1 x Stem



1 x Ball*



1 x Gland



1 x Silicone



1 x Cap O-ring



1 x Small Adaptor O-ring



(908 Nitrile 90)

1 x Large Adaptor O-ring



(216 Nitrile 90)

2 x SAE Port O-rings



(906 Nitrile 90)
(908 Nitrile 90)

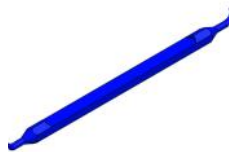
*It is normal for the service kit to include a ball with a small hole in the bottom

The Complete Oasis Seal Kit must be used

Tools Required



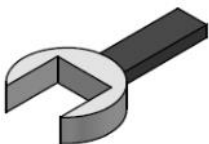
Cleaner
(Warm Soapy
Water or Similar)



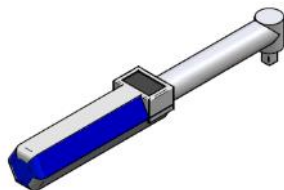
Pick Tool
TOOL-PICK
(Sold separately)



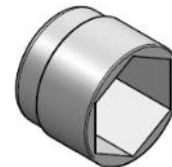
Anti Seize Grease
(Loctite 771 or Similar)
For All Threads



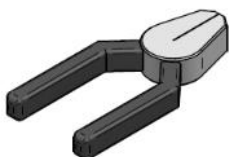
Spanner
(Wrenches)



Torque Wrench



Sockets

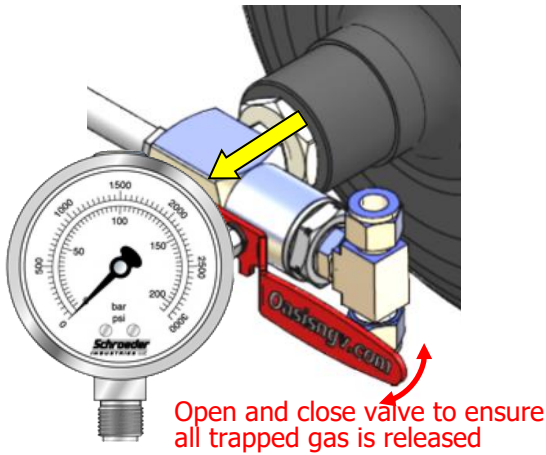


Pliers

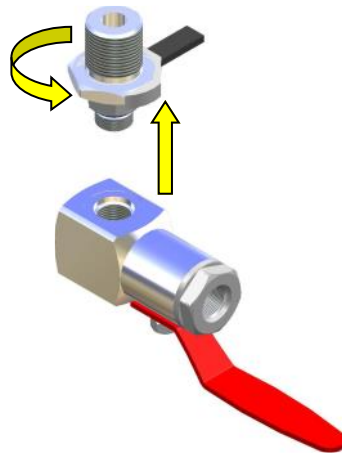


Oasis Plastic Tool
Part Number:
TOOL-BVASSY
(Sold separately)
or Similar

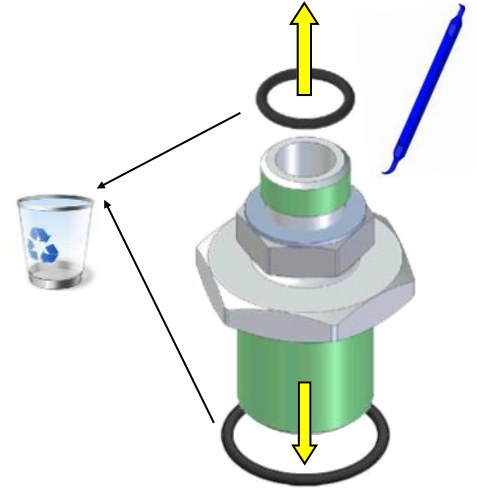
1. Vent pressure from system and remove valve.



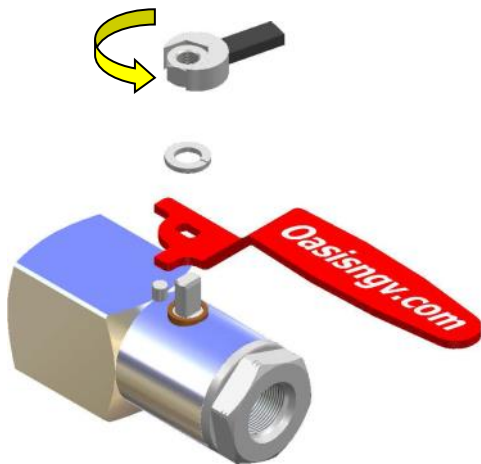
2. Remove adaptor.



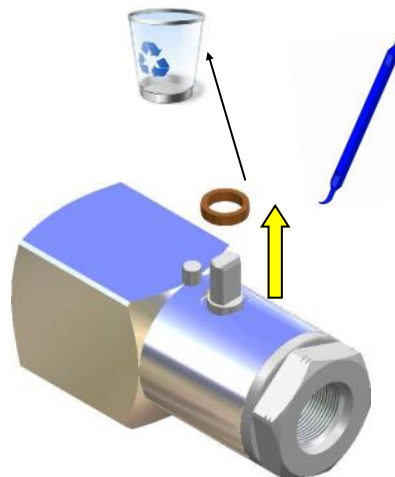
3. Discard adaptor O-rings.



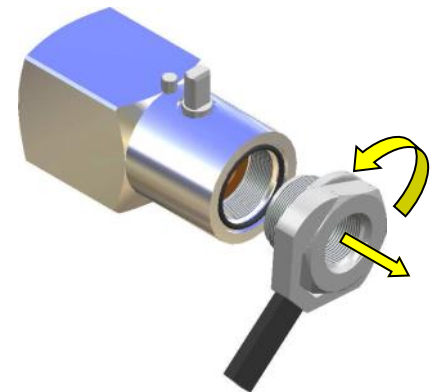
4. Remove handle.



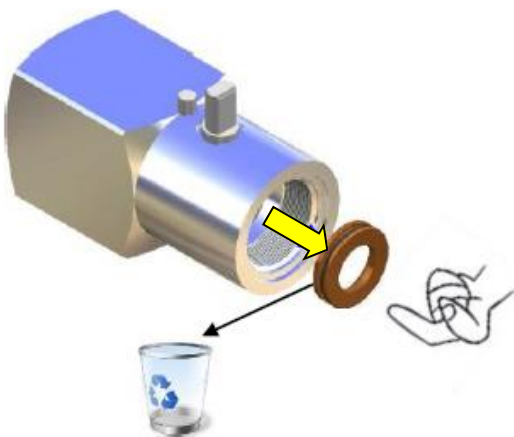
5. Discard gland.



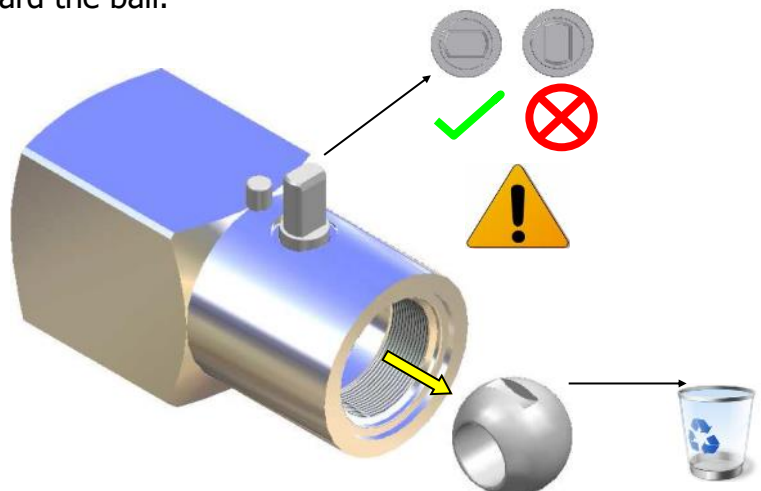
6. Remove end cap.



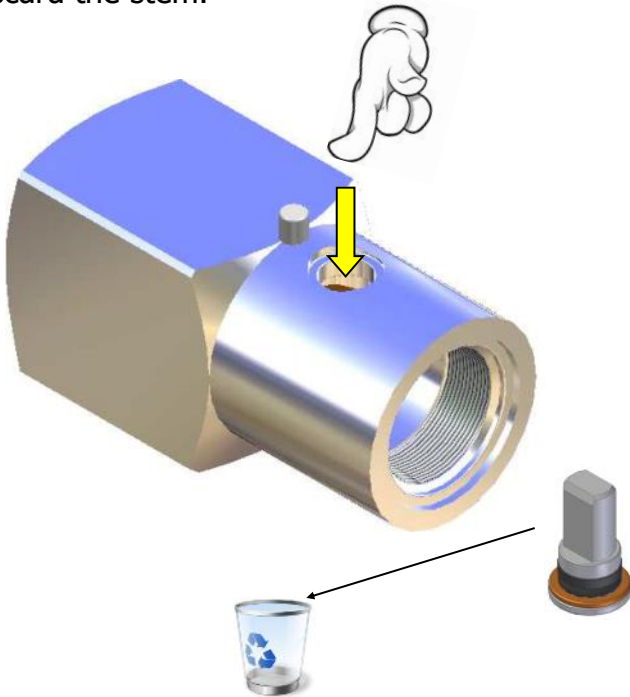
7. Discard the seat.



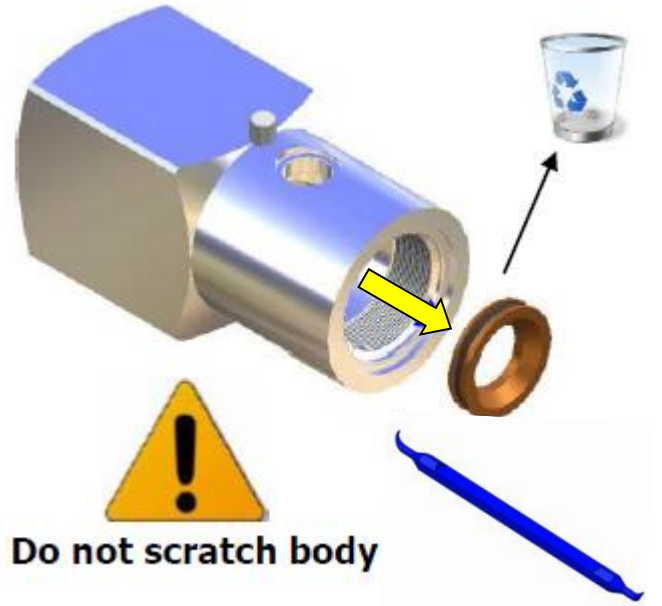
8. Discard the ball.



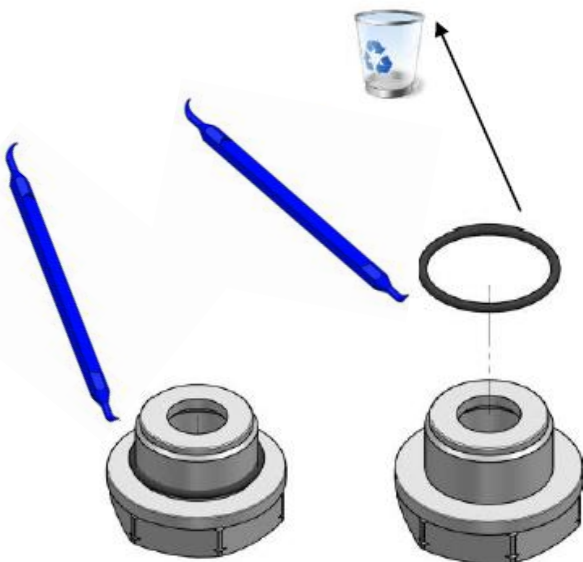
9. Discard the stem.



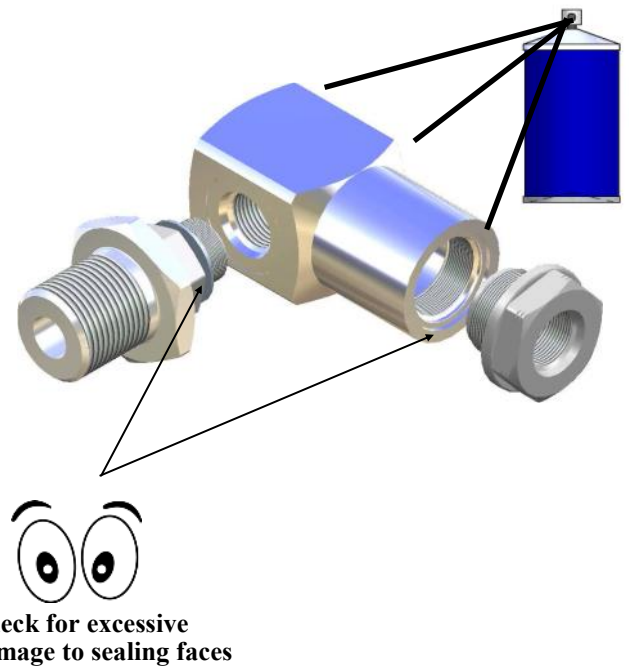
10. Discard the second seat.



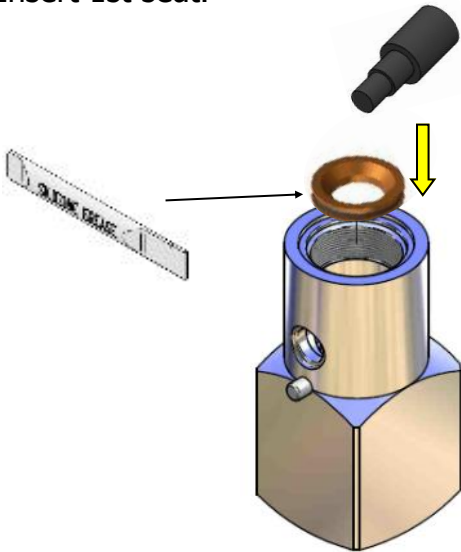
11. Discard the cap O-ring.



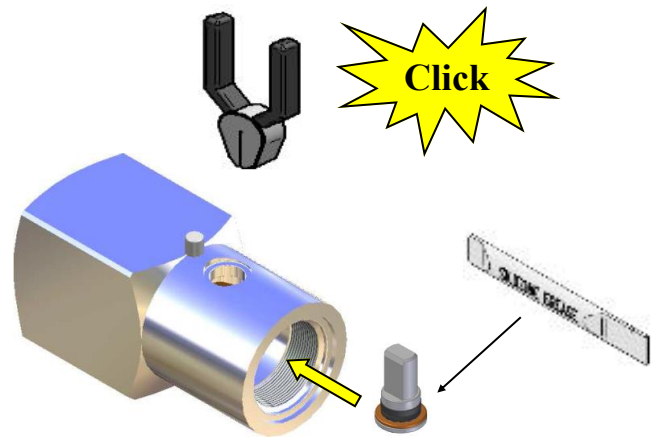
12. Clean the components and inspect for damage.



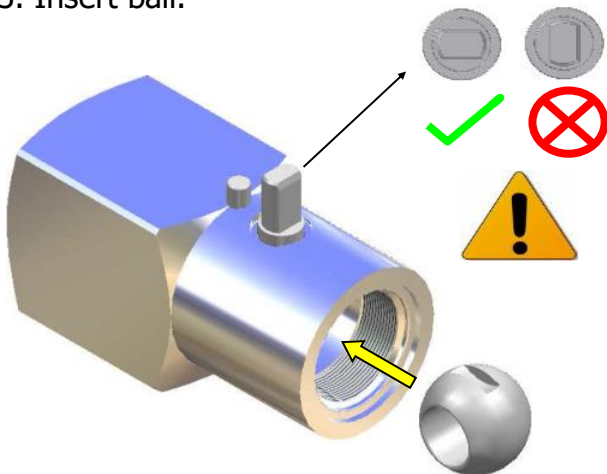
1. Insert 1st seat.



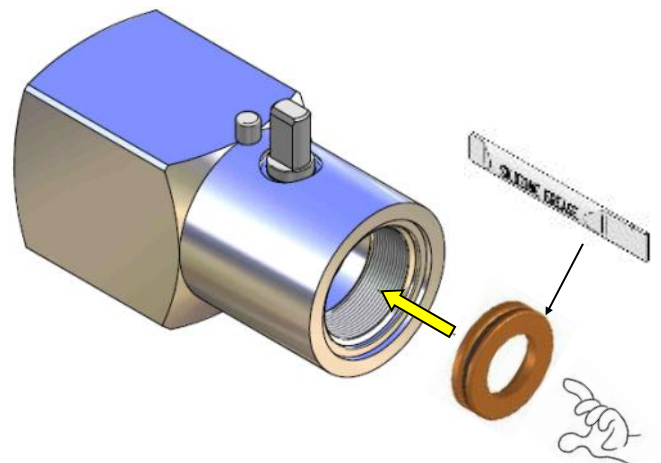
2. Insert stem assembly.



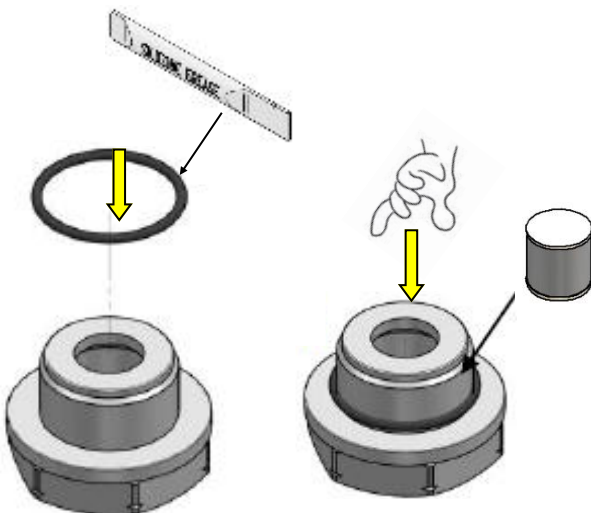
3. Insert ball.



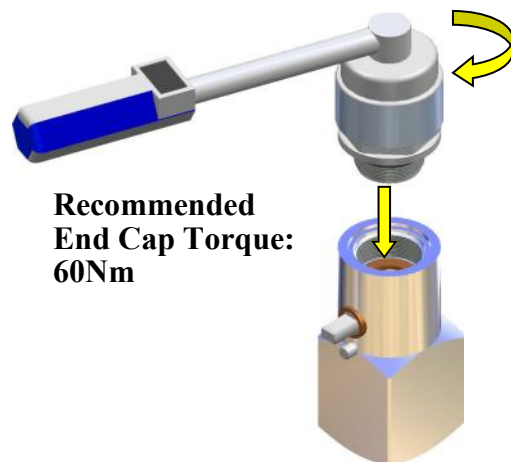
4. Insert 2nd seat.



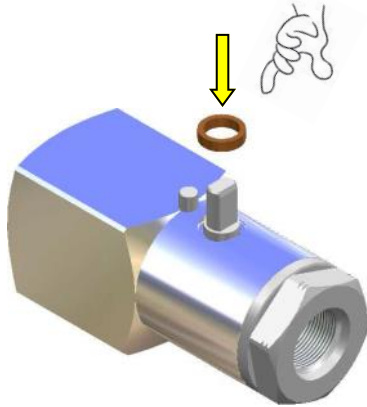
5. Fit cap O-ring.



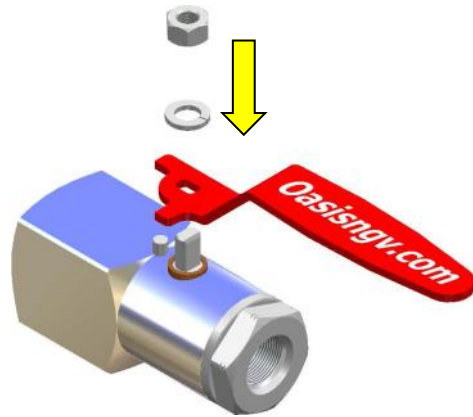
6. Tighten end cap.



7. Insert gland.



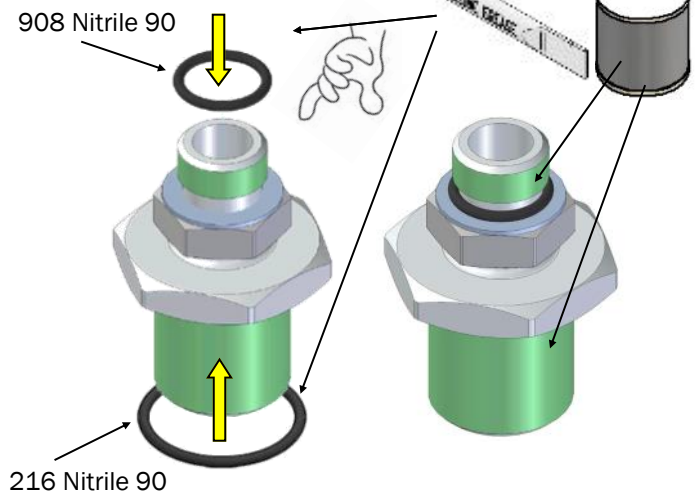
8. Assemble handle components.



9. Tighten handle nut.



10. Insert O-rings.



11. Follow installation instructions on page 3 of this manual for re-fitment of valve. Replace SAE port O-rings with those supplied in service kit.

Apply silicone grease to all O-rings and anti seize to all threads

