BV900 Series

Ball Valve NPT

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.

Oasis recommends that all service technicians should watch the Product Servicing Video before attempting to service this part.

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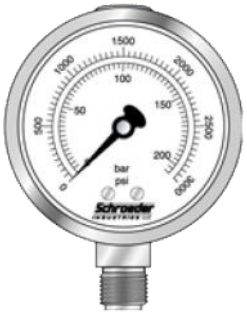
Instruction Manual

Warning!

High pressure gas and gas equipment can cause serious harm to both infra-structure 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:

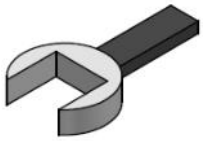


Ensure the system is clean of debris, vented and isolated before any installation or servicing work is carried out.

Attention!

Oasis 900 series ball valves are intended for use with gaseous Hydrogen, CNG, Helium, Biogas or Nitrogen.

Tools Required



Spanner
(Wrenches)
Recommended spanner sizes on page 4

Yellow, Gas Rated, PTFE Thread Tape
- AW TITASEAL
- McMaster-Carr High-Density Thread Sealant Tape
- Blue-Monster gas-guard
- Or Similar

Spray bottle
(Snoop or suitable equivalent)

Anaerobic Thread Sealant with PTFE (Optional)
- Loctite 567
- Swagelok SWAK
- Hernon Dripstop 940
- Gasoila FasSeal-ATS
- Or Similar

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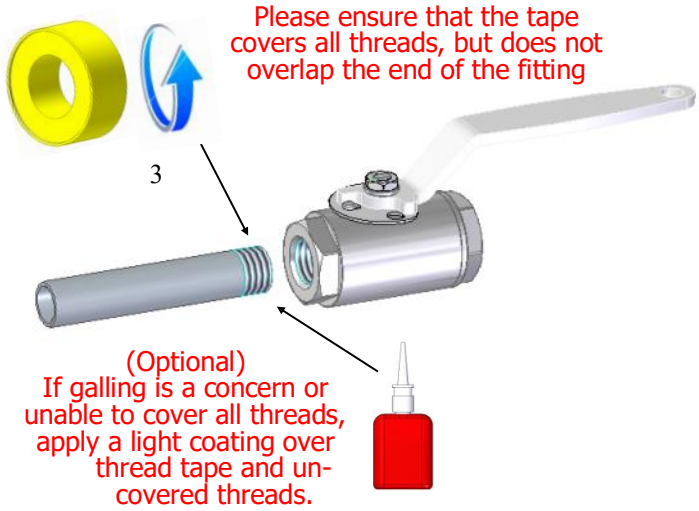
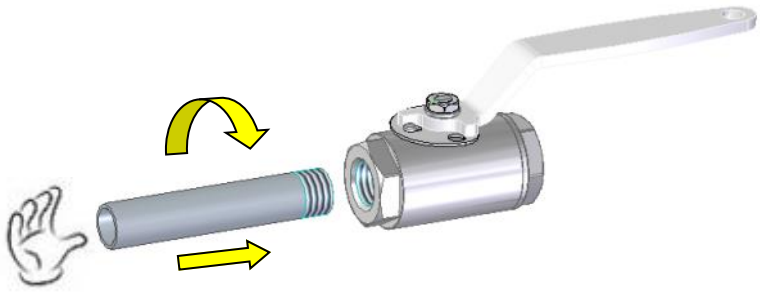
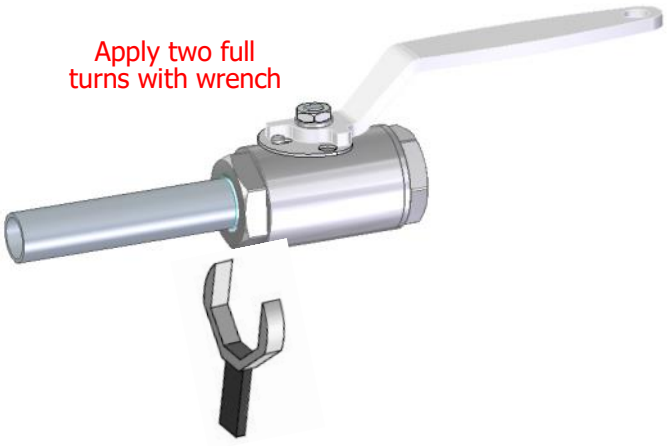
1. Apply thread tape and thread sealant.



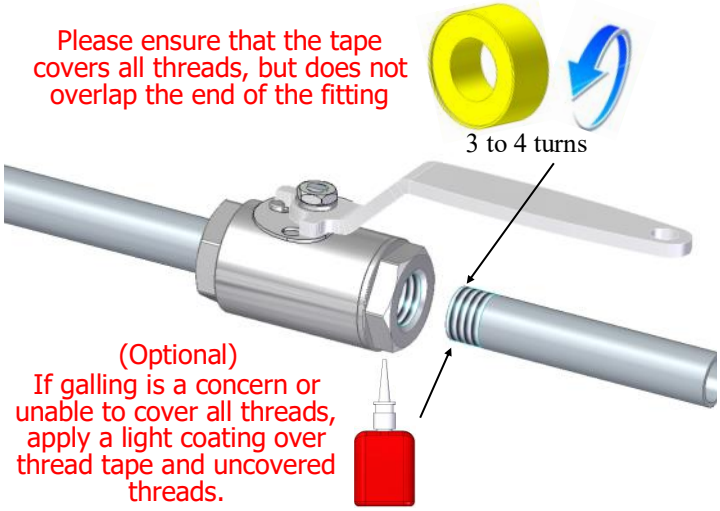
2. Tighten by hand



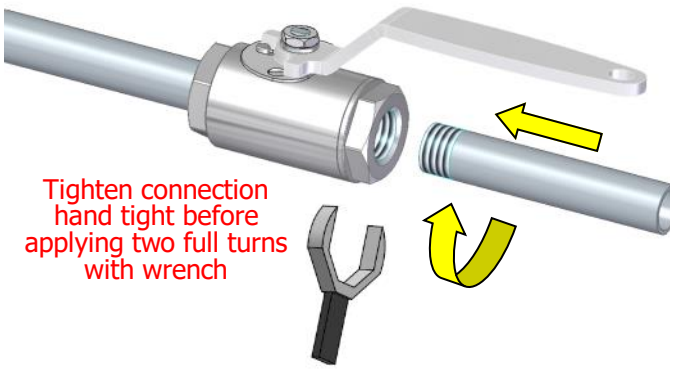
3. Tighten connection.



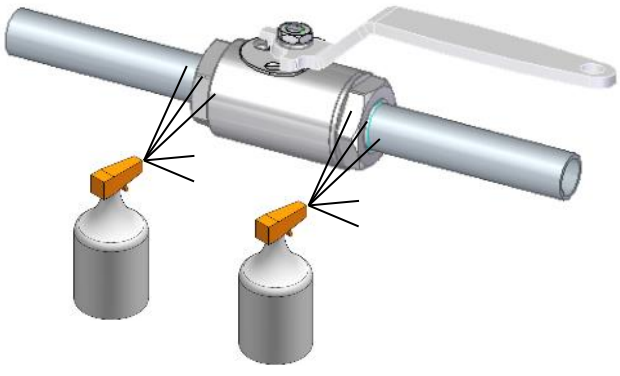
4. Apply thread tape and thread sealant.



5. Join and tighten the connection.



6. Leak test on first use using snoop or soapy water.



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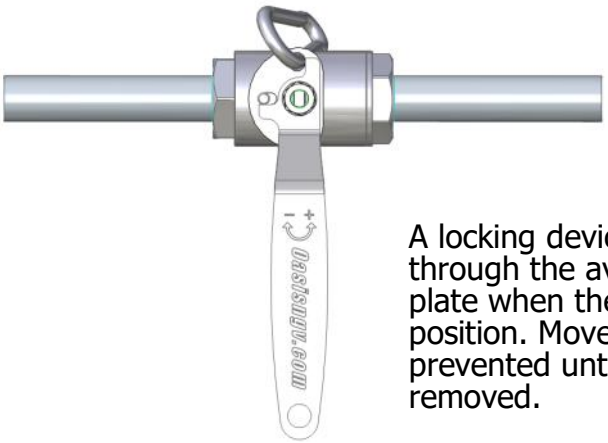
1. Closed

2. Opened

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

Optional - Lock-plate
In Closed Position

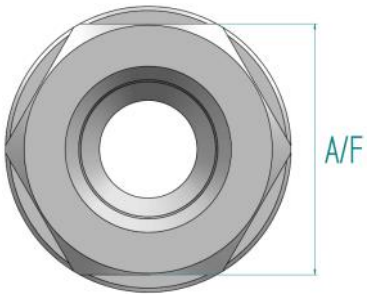


Optional - Lock-plate
In Open Position

A locking device (not provided) is placed through the available hole on the locking plate when the handle is in the desired position. Movement of the handle is prevented until the locking device is removed.

Recommended Spanners for End Caps:

BV902 = 34mm
BV903 = 34mm
BV904 = 34mm
BV906 = 50mm
BV908 = 50mm



Recommended Spanners for Stem Nuts:

BV902 = 13mm
BV903 = 13mm
BV904 = 13mm
BV906 = 19mm
BV908 = 19mm

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Service Kit Parts

BV902—BV903—BV904—BV906 — BV908

2 x Seats

1 x Stem

1 x Ball

1 x Gland

1 x Silicone

1 x Cap O-ring

1 x Locking Tab*

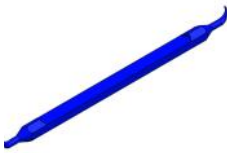
1 x Cap Back-up O-ring

* Only used when servicing actuated ball valves.

The Complete Oasis Seal Kit must be used

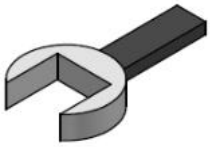
Tools Required

Cleaner (Warm Soapy Water or Similar)

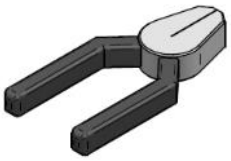


Pick Tool
Part Number:
TOOL-PICK
(Sold separately)

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

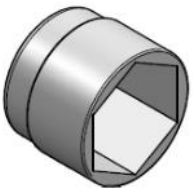


Spanner
(Wrenches)

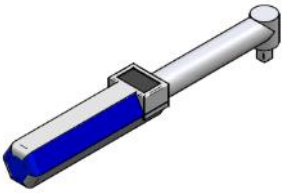


Pliers

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



Sockets



Torque Wrench

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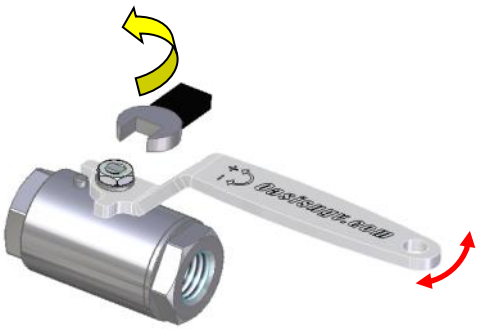
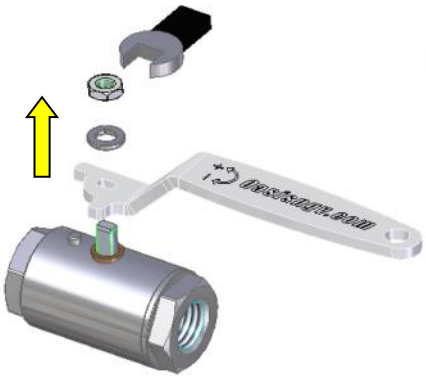
1. Unscrew stem nut.

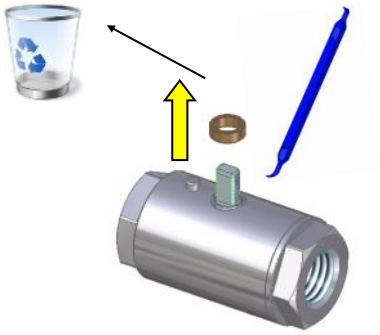


Open and close valve to ensure all trapped gas is released.

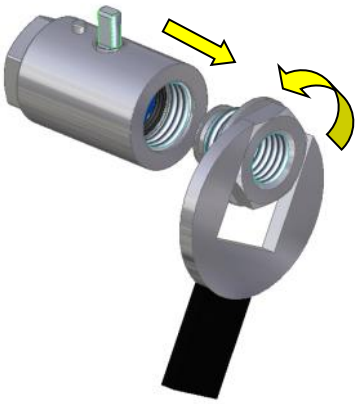
2. Remove handle.



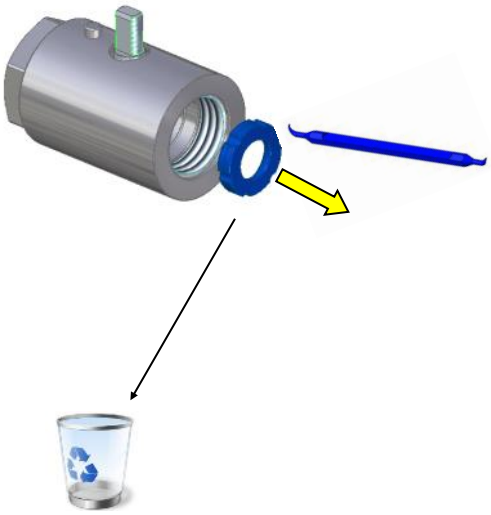
3.Discard gland.



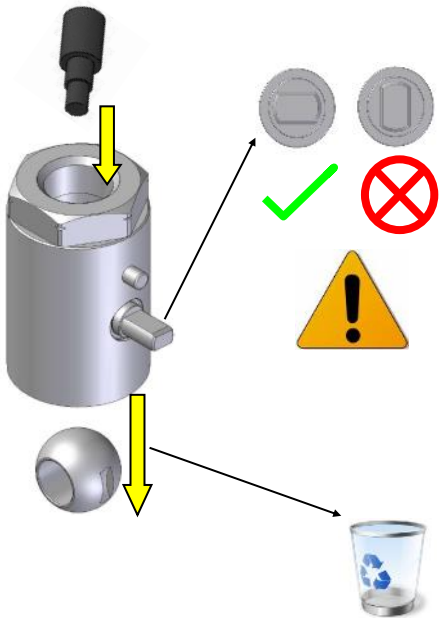
4. Remove end cap.



5.Discard seat.



6.Remove ball.



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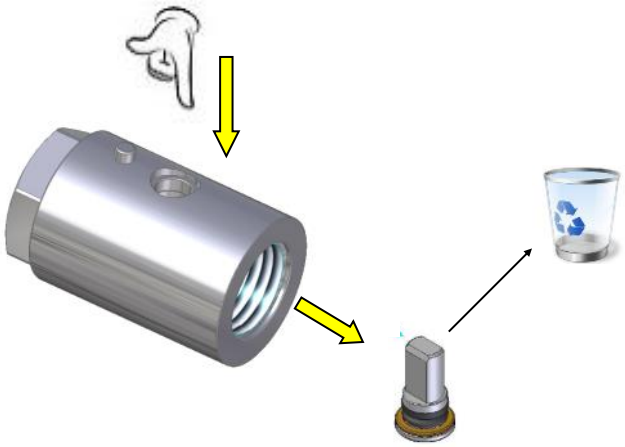
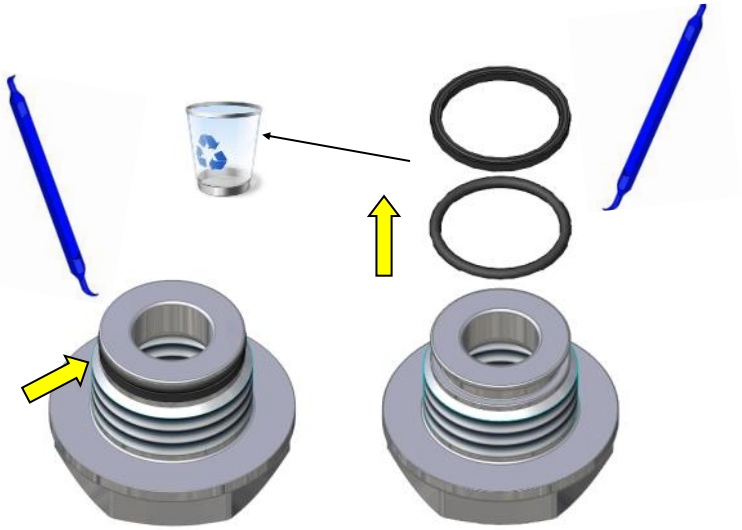
7. Remove stem first

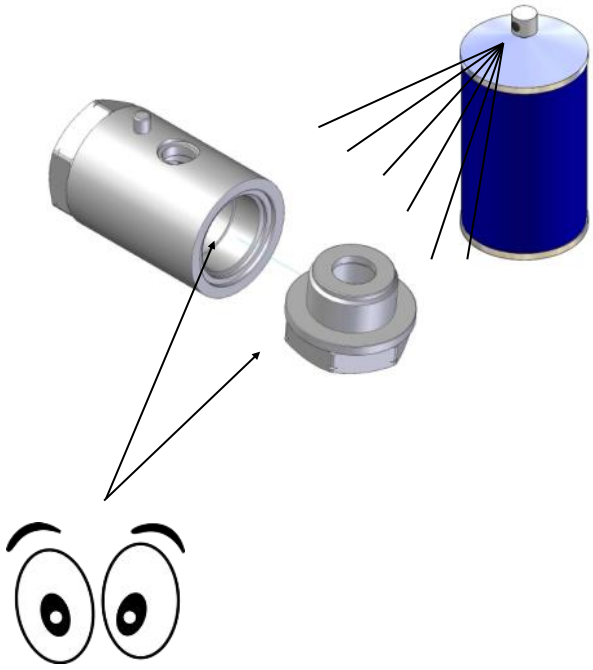


8. Remove and discard 2nd seat.

9. Remove cap O-rings and discard.



10. Clean body and end cap. Visually inspect parts for damage.



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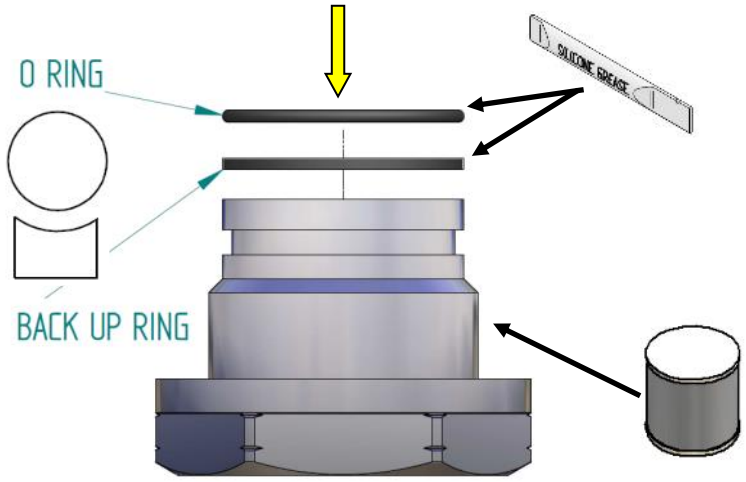
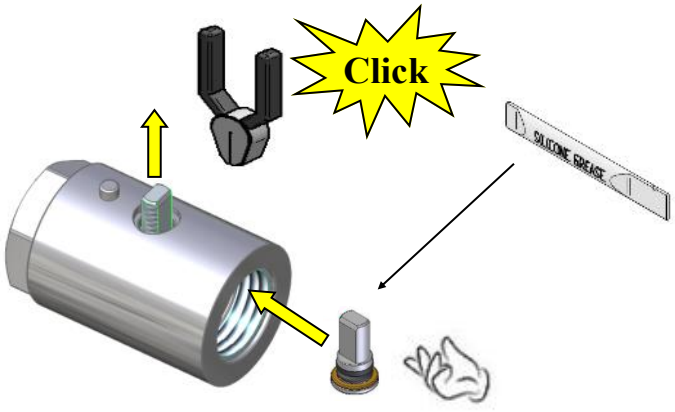
1. Apply grease to end cap O-rings and fit to end cap.



2. Install first new seat

3. Apply grease to stem O-ring and insert stem assembly.



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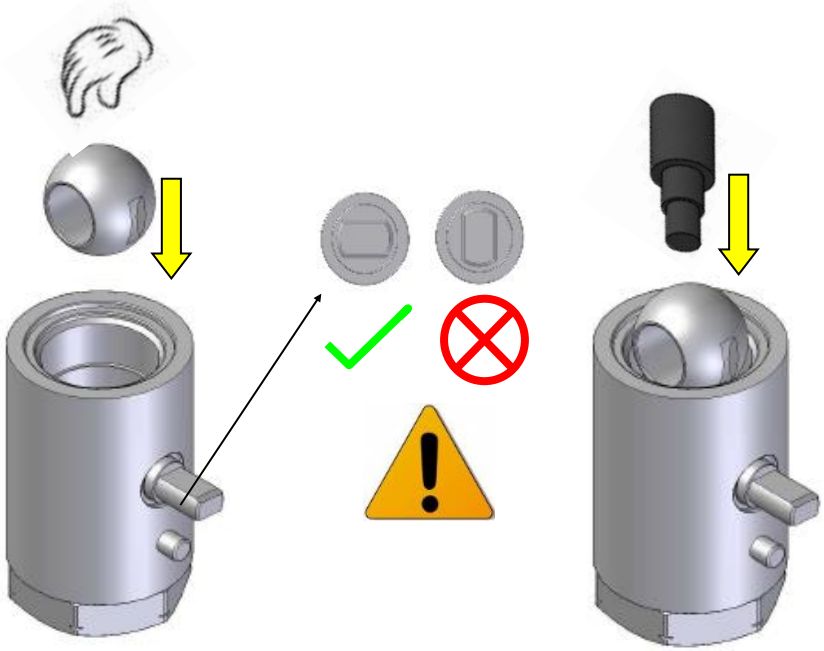
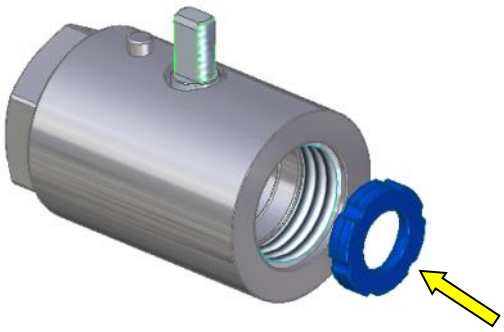
4. Insert Ball.



5. Install second new seat.



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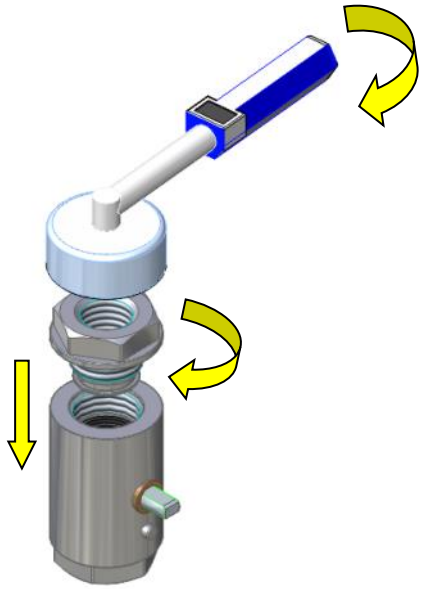
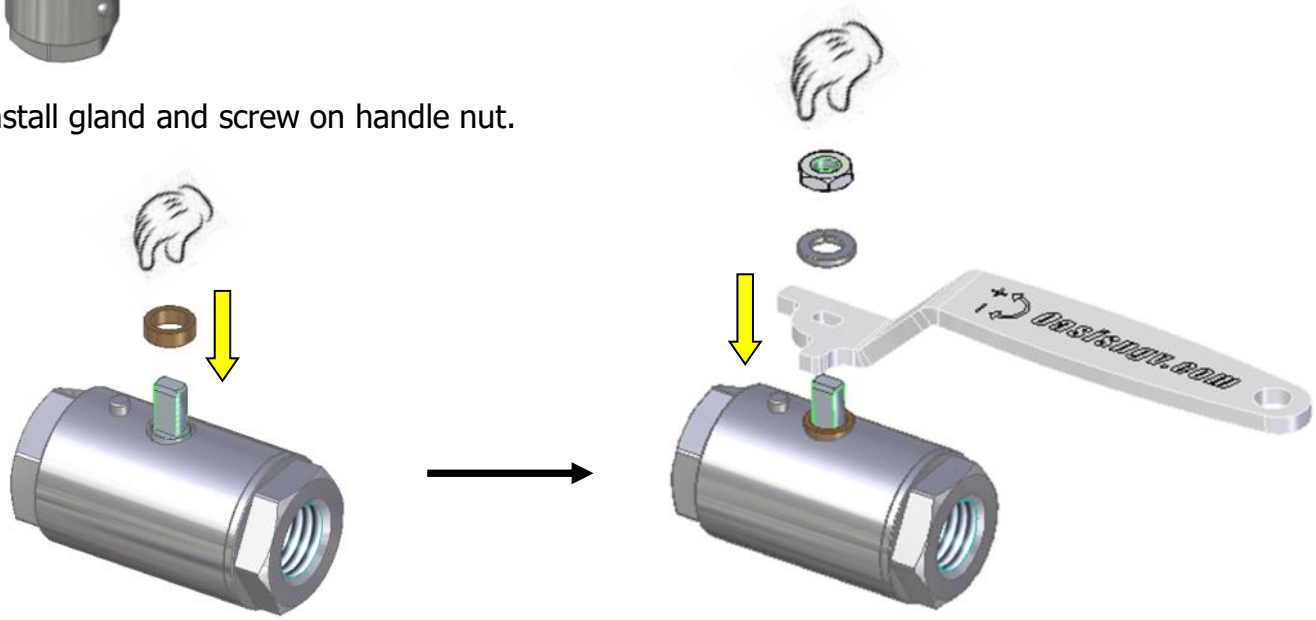
6. Torque tight the end cap.



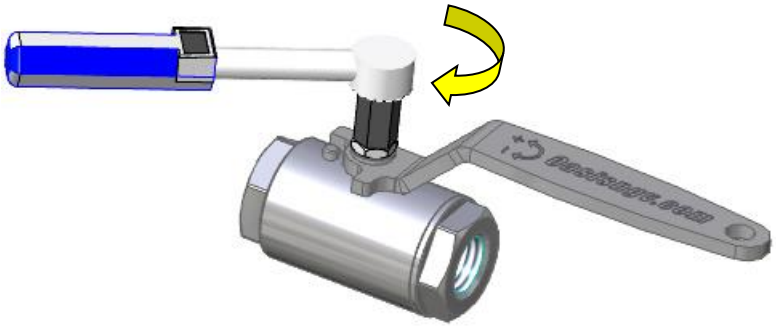
Recommended End Cap Torques:

BV902=60Nm
BV903=60Nm
BV904=60Nm
BV906=160Nm
BV908=160Nm

7. Install gland and screw on handle nut.



8. Tighten stem nut.



Recommended Handle Nut Torques:

BV902=3Nm
BV903=3Nm
BV904=3Nm
BV906=6Nm
BV908=6Nm

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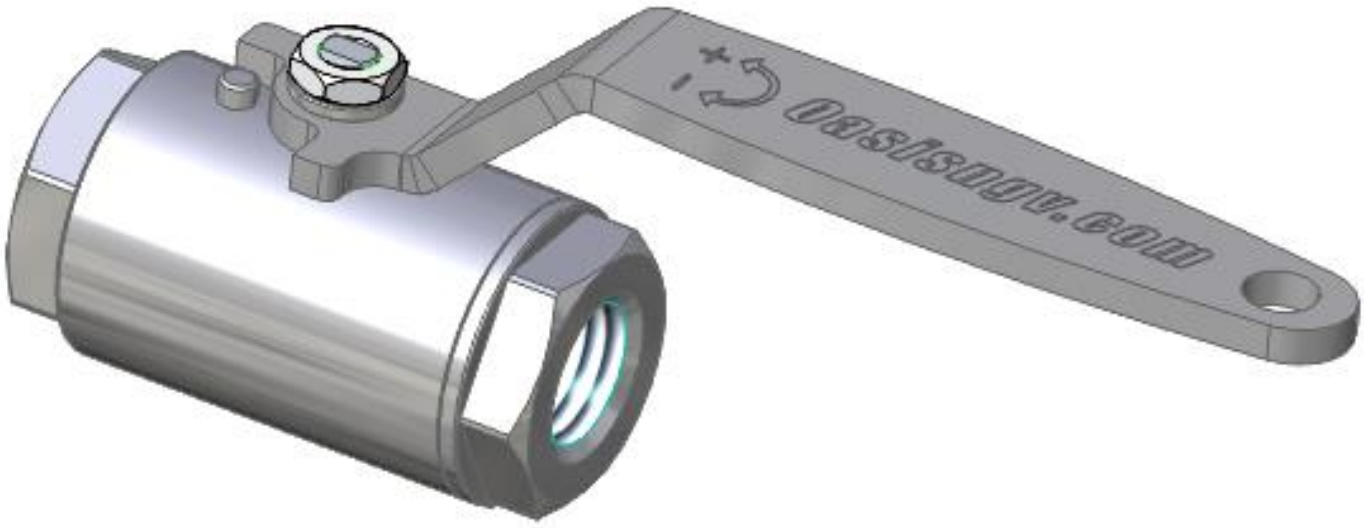
9. Servicing complete. Re-install as per the instructions on page 3 .



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

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