



BV900 Series Actuated Ball Valve NPT Instruction Manual

A 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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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

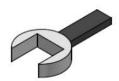


Ensure the system is clean of debris, vented and isolated before any installation or servicing work is carried out.

Attention!

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

Tools Required



Spanner (Wrenches)



Spray bottle (Snoop or suitable equivalent)



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



Yellow, Gas Rated, PTFE Thread Tape

- AW TITASEAL
- McMaster-Carr High-Density Thread Sealant Tape
- Blue-Monster gas-guard
- Or Similar



Anaerobic Thread Sealant with PTFE (Optional)

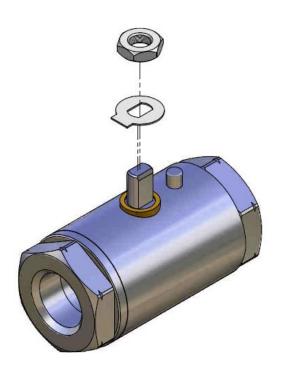
- Loctite 567
- Swagelok SWAK
- Hernon Dripstop 940
- Gasoila FasSeal-ATS
- Or Similar

Installation Instructions

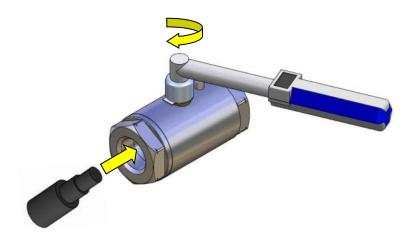
FOLLOW THIS INSTRUCTIONS TO PREPARE VALVE FOR THE ACTUATOR FIT

Setting The Standard

1. If fitting an existing valve with an actuator remove existing handle and install the lock tab and half nut.

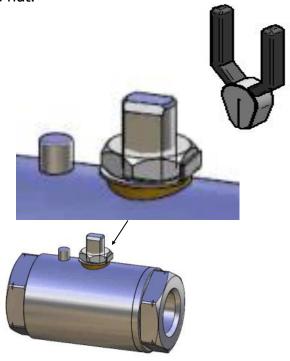


2. Tighten the half nut to the required torque.

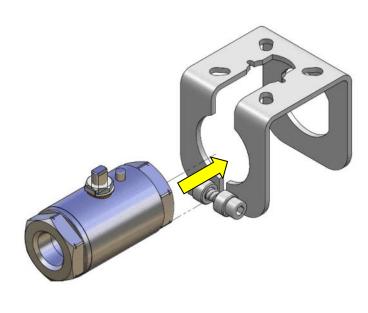


Recommended Spanners for Stem Nuts:	Stem nut tightening torque
BV902 = 13mm	BV902=3Nm
BV903 = 13mm	BV903=3Nm
BV904 = 13mm	BV904=3Nm
BV906 = 19mm	BV906=6Nm
BV908 = 19mm	BV908=6Nm

3. Use pliers and crush the lock tab onto the nut.



4. Insert the ball valve into the actuator mount so that the stop pin goes in first.

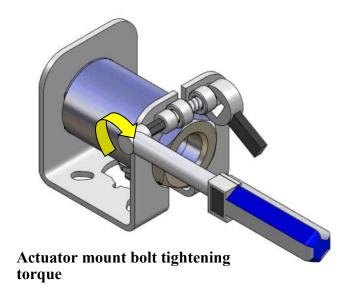


Installation Instructions

FOLLOW THIS INSTRUCTIONS TO PREPARE VALVE FOR THE ACTUATOR FIT

Setting The Standard

5. Tighten the lock bolt to the recommended torque.



BV902 = 1 Nm

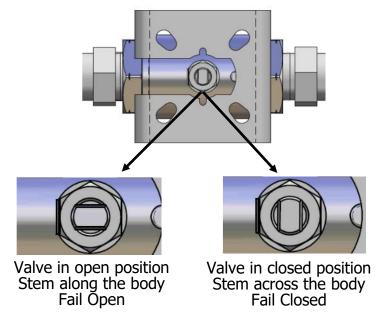
BV903 = 1 Nm

BV904 = 1 Nm

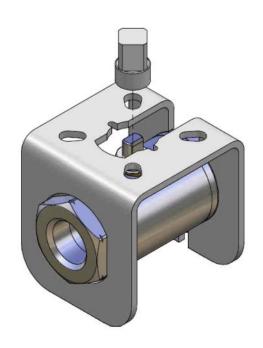
BV906 = 5 Nm

BV908 = 5 Nm

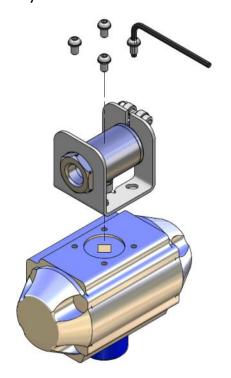
6. Set the valve to the required fail open/fail close position as required.



7. Install the drive dog over the stem.



8. Tighten on the actuator ensuring the drive dog is correctly located.

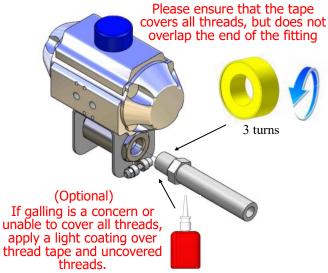




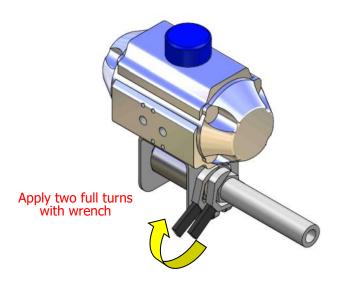
Installation Instructions

Setting The Standard

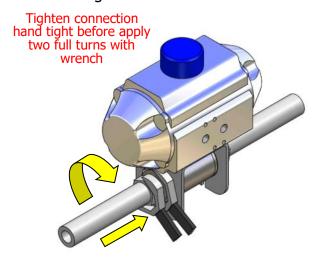
1. Apply thread tape and thread sealant.



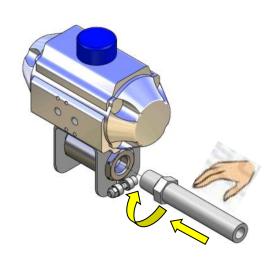
3. Tighten connection.



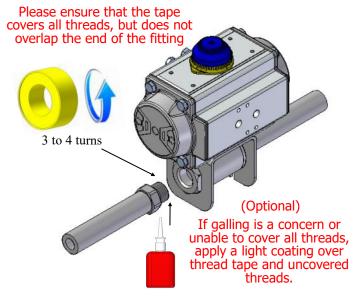
5. Join and tighten the connection.



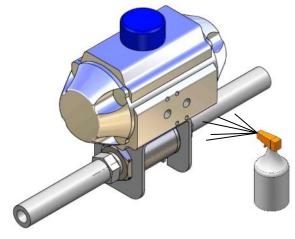
2. Tighten by hand.



4. Apply thread tape and thread sealant.



6. Leakage test connections and assembly is complete.

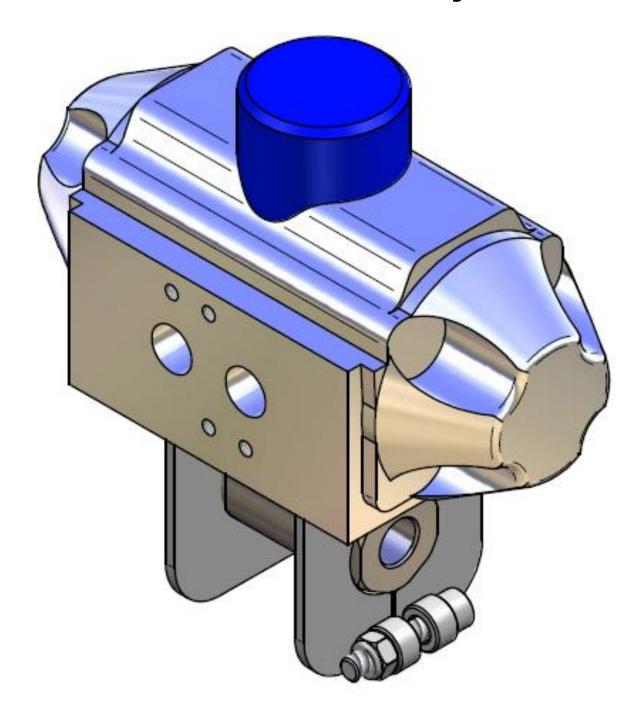


Installation Instructions

Setting The Standard

Oasis recommends that for valves bigger than 3/4" the actuator bracket is mounted separately using the mounting holes in the supplied actuator bracket.

BV900 Series Actuator Bracket Design

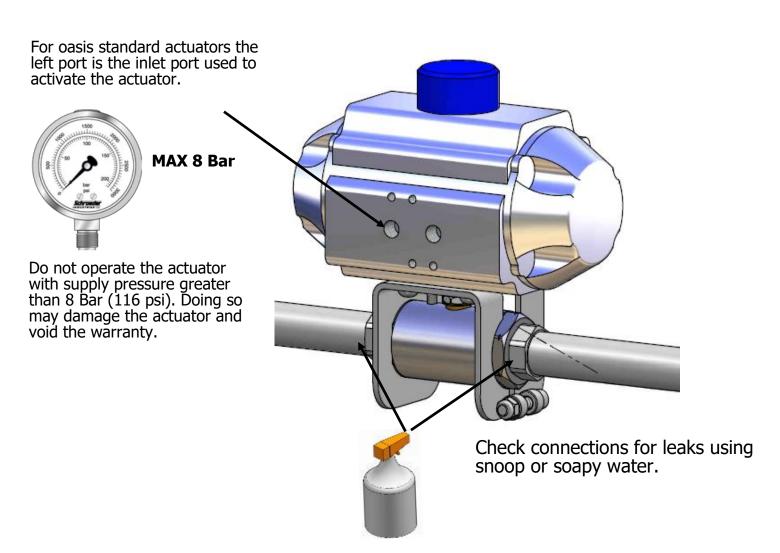


Operation Instructions

Setting The Standard

1. Connect air line and check connections for leaks.

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



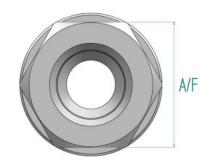
Recommended Spanners for End Caps:

BV902 = 34mm

BV903 = 34mmBV904 = 34mm

BV906 = 50 mm

BV908 = 50 mm





Service Kit Parts

BV902—BV903—BV904—BV906 — BV908





1 x Gland



1 x Locking Tab*









1 x Silicone



1 x Cap Back-up O-ring



1 x Ball

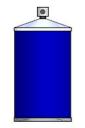
1 x Cap O-ring



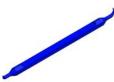
* Only used when servicing actuated ball valves.

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)



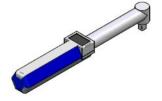
Pliers



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



Sockets



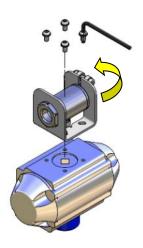
Torque Wrench



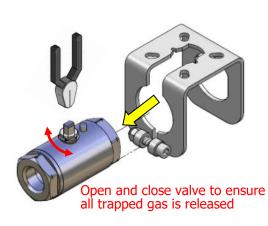
Servicing Disassembly

Setting The Standard

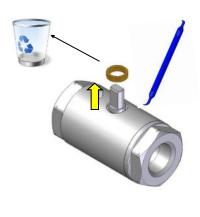
1.Remove actuator from valve.



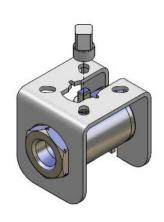
4. Remove valve.



7. Discard gland.



2. Remove drive dog.



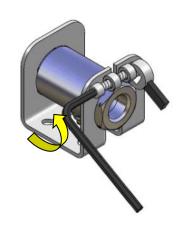
5. Fold down metal tab.



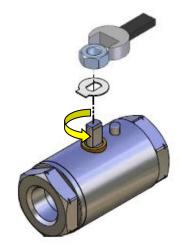
8. Remove end cap.



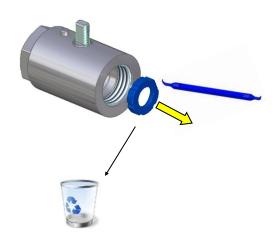
3. Undo clamp.



6. Remove nut and tab.



9.Discard seat.

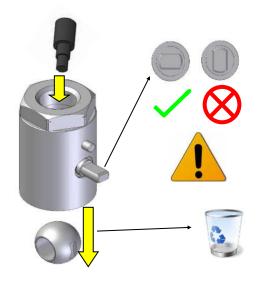




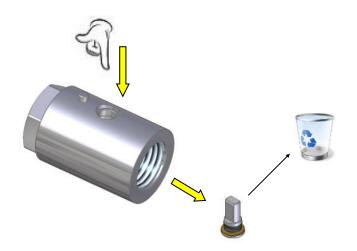
Servicing Disassembly

Setting The Standard

10. Remove ball.



11. Remove stem first

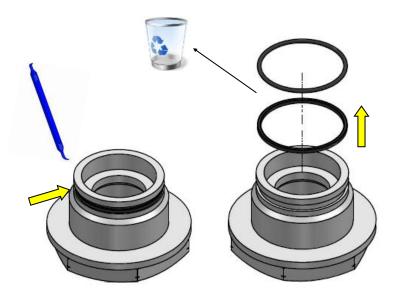


12. Remove and discard 2nd seat

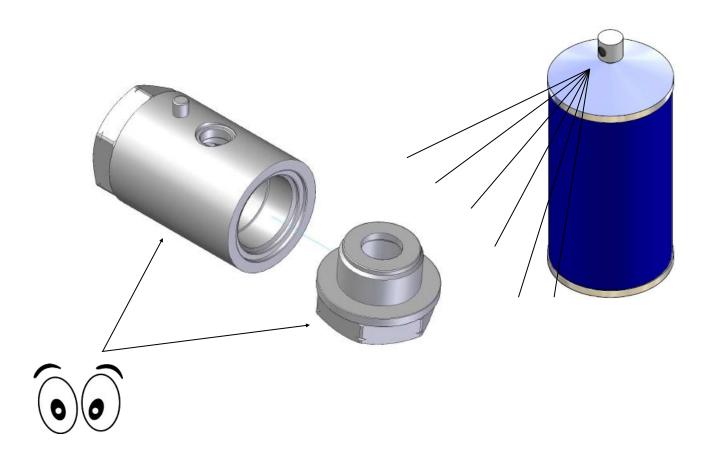


Setting The Standard

13. Remove cap O-rings and discard.



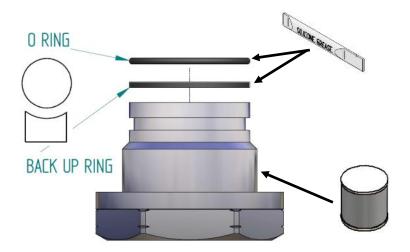
14. Clean body and end cap, visually check parts for damage



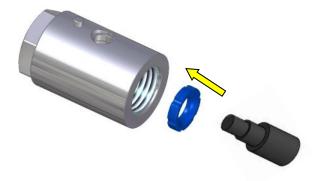




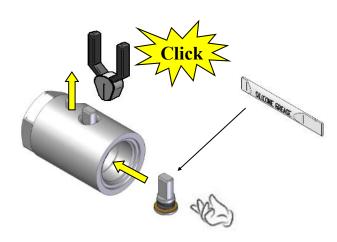
1. Fit end cap O-rings.



2. Apply silicone grease to new seat and install. Take care not to pinch O-ring when installing low pressure seat.



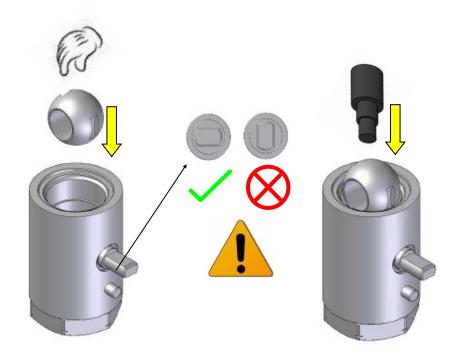
3. Insert stem assembly.



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4. Insert Ball.



5. Install second new seat.



Servicing Assembly

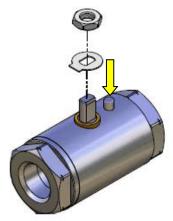
Setting The Standard



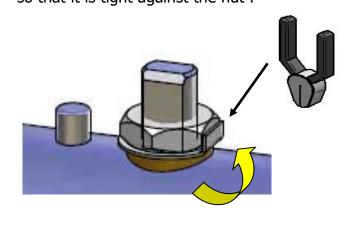
7. Install gland.



8. Install the lock tab and the nut.

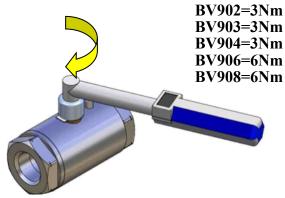


10. Using pliers bend the lock tab upwards so that it is tight against the nut .



9. Tighten stem nut.





11. Servicing complete, follow installation instructions from step 4 on page 3 for re-installation of product.



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