



BV700 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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Instruction Manual

Servicing Video



Safety

Setting The Standard

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:



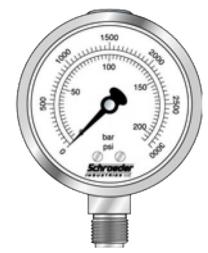








Foot Protection Hearing Protection Safety Helmets Hand Protection Safety Glasses



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



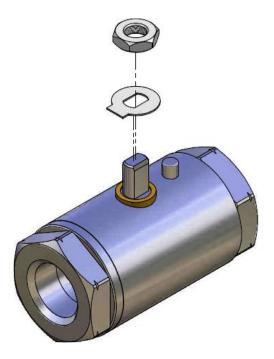


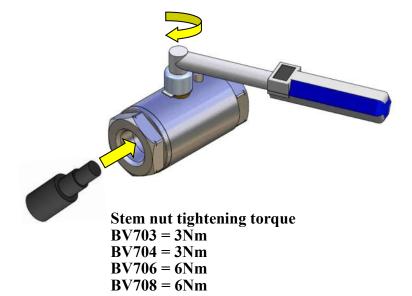
If valve not supplied with actuator or bracket follow these instructions

Setting The Standard

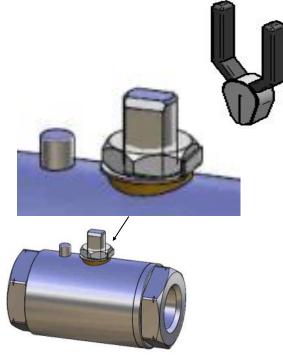
1. If fitting an existing valve with an actuator remove existing handle and install the lock tab and half nut.

2. Tighten the half nut to the required torque.

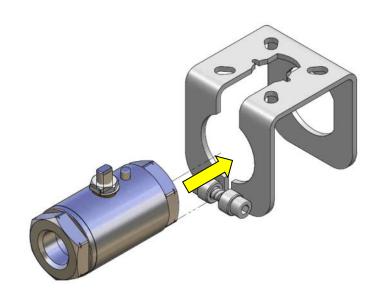




3. Use pliers and crush the lock tab onto the nut.



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



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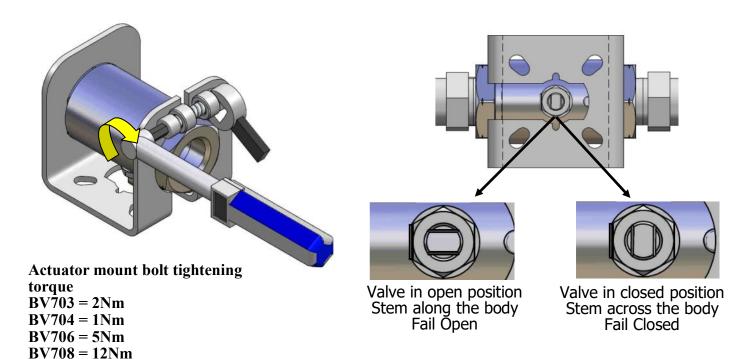
Installation Instructions

If valve not supplied with actuator or bracket follow these instructions

Setting The Standard

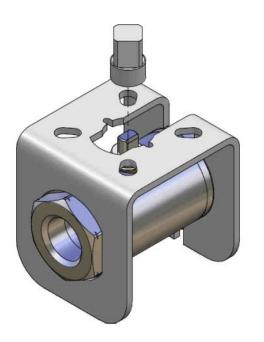
5. Tighten the lock bolt to the recommended torque.

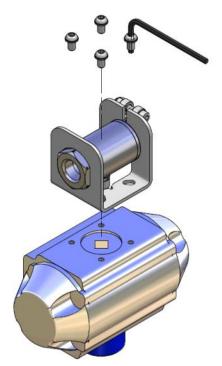
6. Set the valve to the required fail open/fail close position as required.



7. Install the drive dog over the stem.

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





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Installation Instructions

Setting The Standard

0 0

(Optional)

threads.

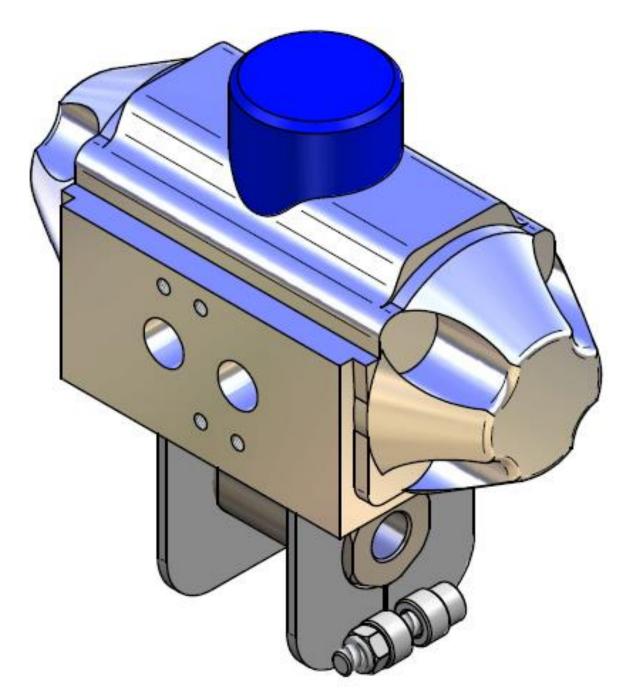
2. Tighten by hand. 1. Apply thread tape and thread sealant. Please ensure that the tape covers all threads, but does not overlap the end of the fitting 3 to 4 turns (Optional) If galling is a concern or unable to cover all threads, apply a light coating over thread tape and uncovered threads. 4. Apply thread tape and thread sealant. 3. Tighten connection. Please ensure that the tape covers all threads, but does not overlap the end of the fitting 3 to 4 turns Apply two full turns with wrench If galling is a concern or unable to cover all threads, apply a light coating over thread tape and uncovered 5. Join and tighten the connection. 6. Leakage test connections and assembly is complete. Tighten connection hand tight before apply two full turns with wrench 0 0 5



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.

BV702/703/704 Actuator Bracket Design



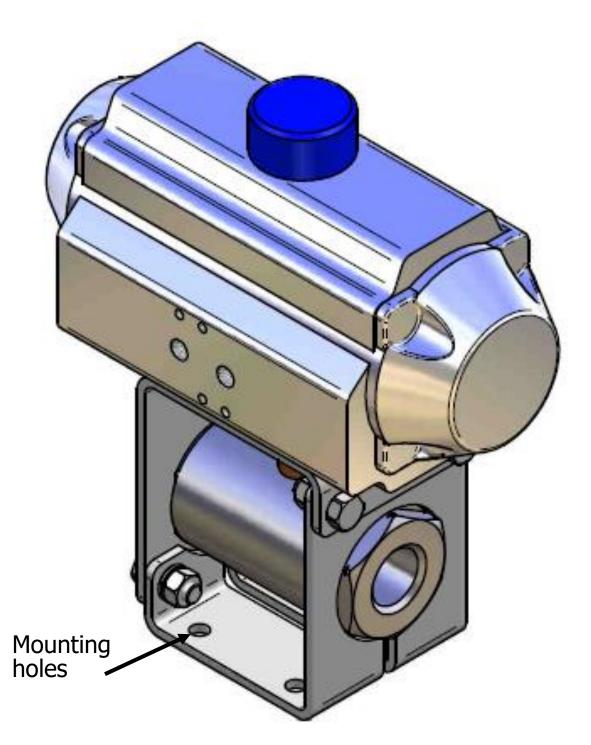
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Installation Instructions

Setting The Standard

BV706/708 Actuator Bracket Design



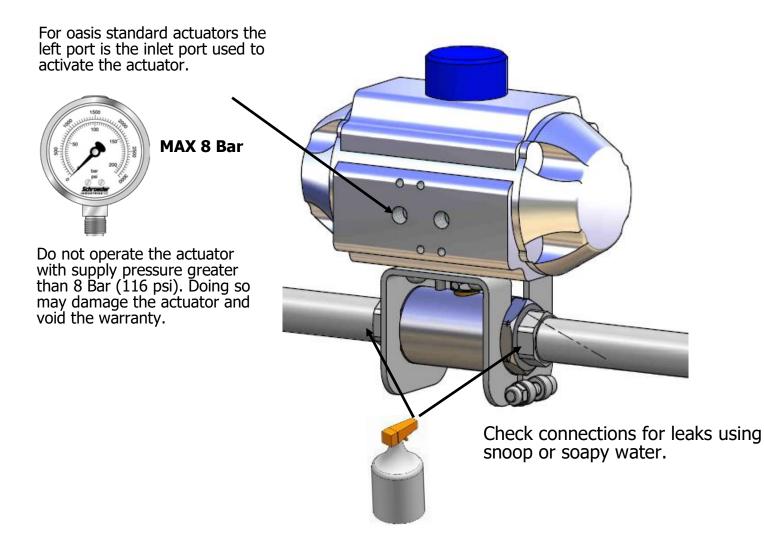
For mounting holes pattern please refer to Actuated Ball Valves Specification sheet.

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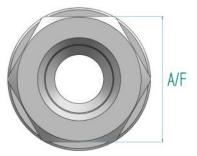
Setting The Standard

1. Connect air line and check connections for leaks.



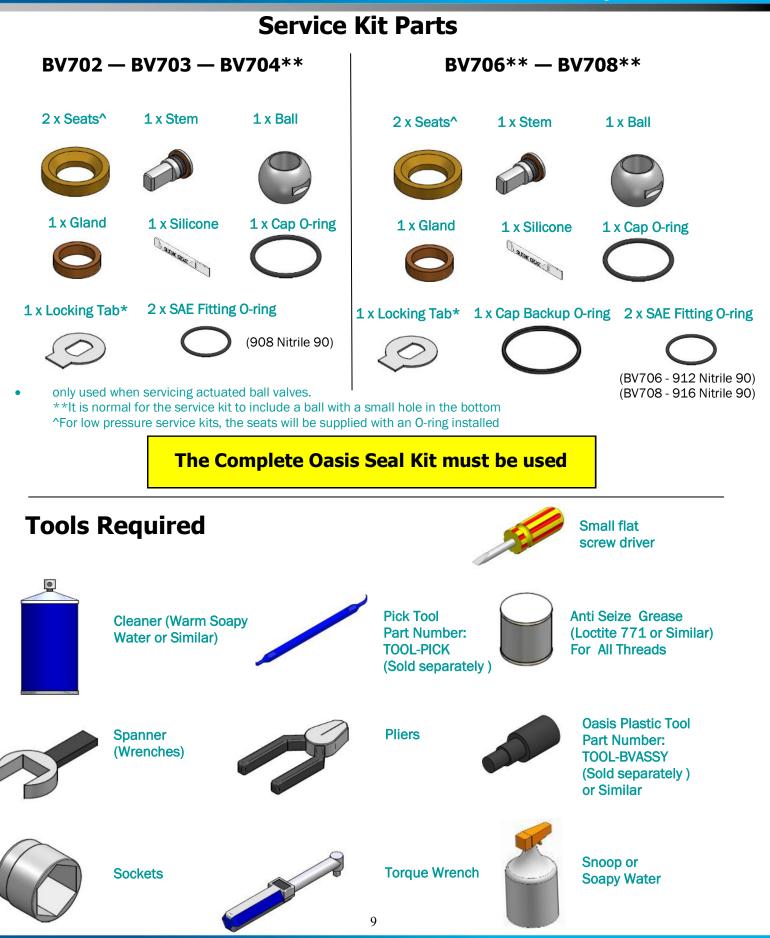
Recommended Spanners for End Caps:

BV702 = 25mm
BV703 = 28mm
BV704 = 34mm
BV706 = 50mm
BV708 = 60mm





Setting The Standard



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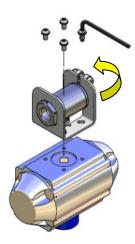


Servicing Disassembly

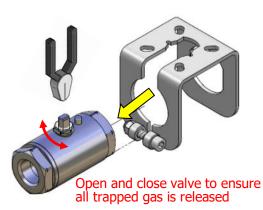
Setting The Standard

3. Undo clamp.

1.Remove actuator from valve.

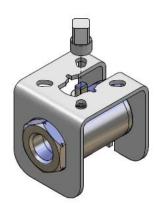


4.Remove valve.



- 7. Discard gland.

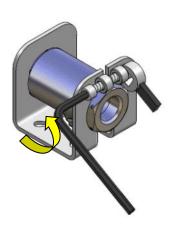
2. Remove drive dog.



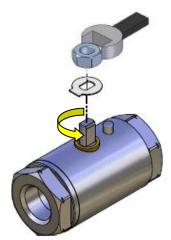
5. Fold down metal tab.



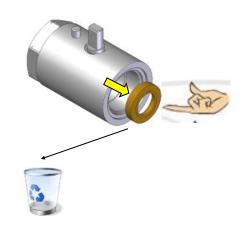
8. Remove end cap.



6. Remove nut and tab.



9.Discard seat.

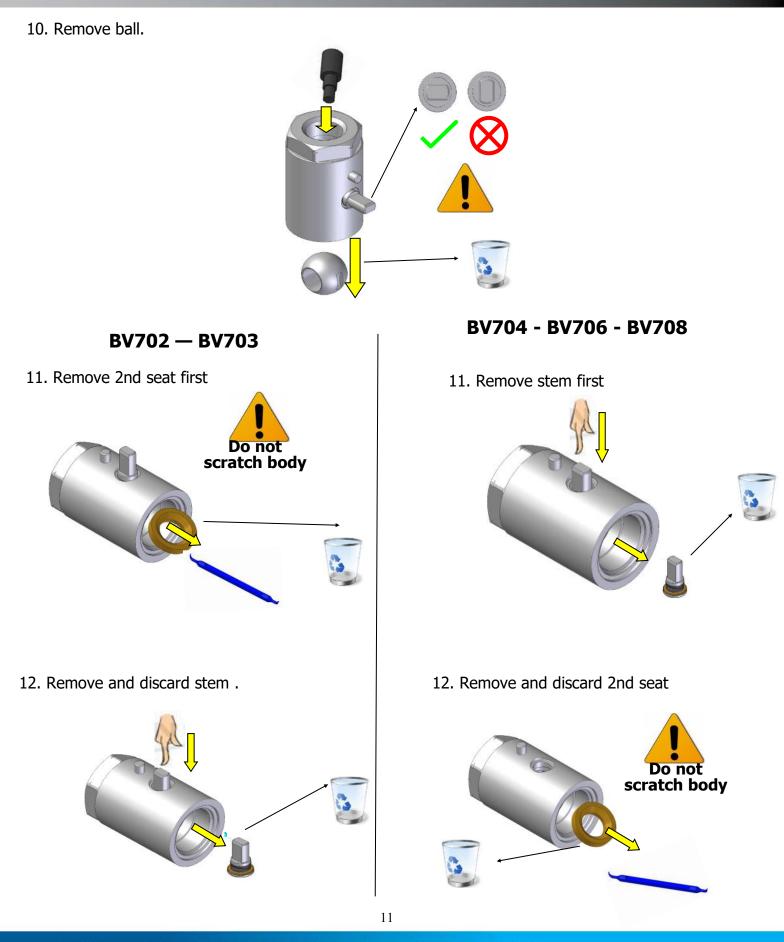


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Servicing Disassembly

Setting The Standard



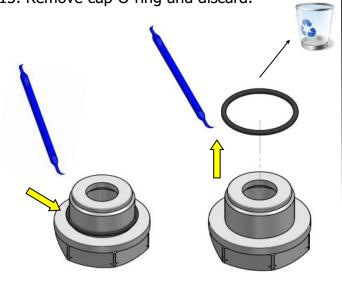


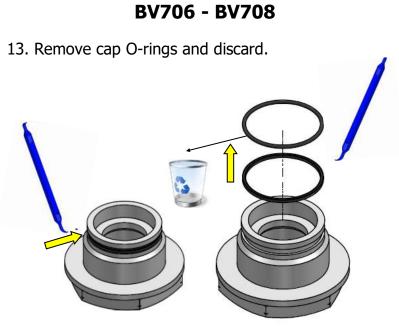
Servicing Disassembly

Setting The Standard

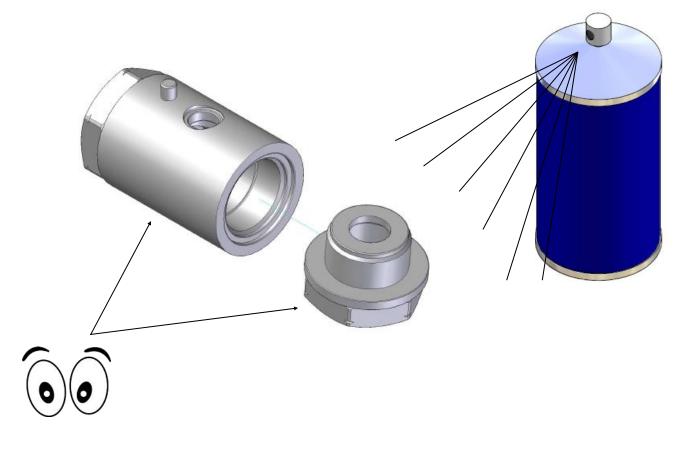
BV702 - BV703 - BV704

13. Remove cap O-ring and discard.





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





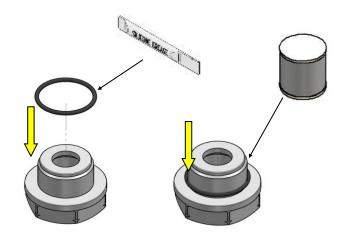
Servicing Assembly

Setting The Standard

BV702 — BV703 — BV704

BV706 — BV708

1. Fit O-ring.

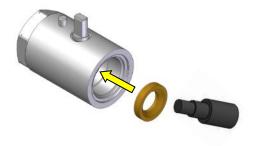


BV702 — BV703

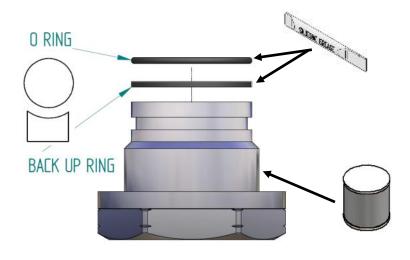
2. Insert stem assembly first.



3. Insert first seat.

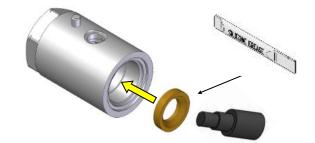


1. Fit end cap O-rings.



BV704 - BV706 - BV708

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.



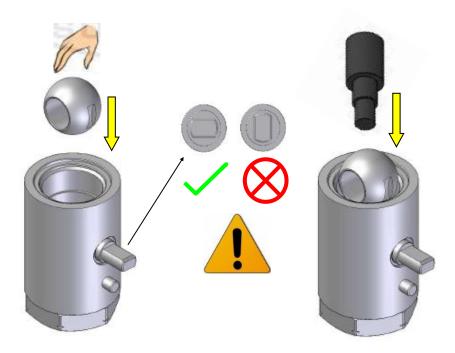


Servicing Assembly

Setting The Standard

BV702 - BV703 - BV704 - BV706 - BV708

4. Insert ball.

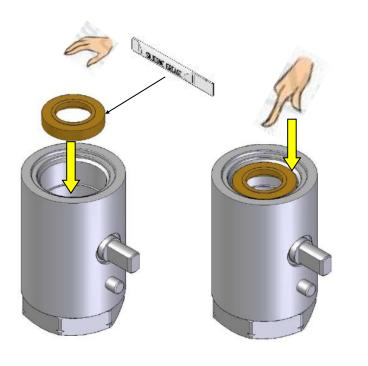


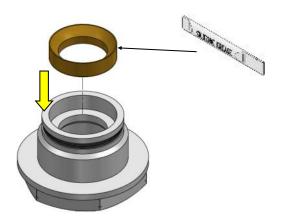
BV702 — BV703 — BV704

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

BV706 — BV708

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





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Servicing Assembly

Setting The Standard

BV702 - BV703 - BV704 - BV706 - BV708

