



SV100 Series Actuated Sandwich Valve 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.

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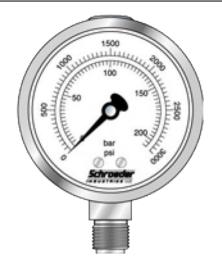


Warning!

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:





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

Important for Canadian systems

The design has been confirmed and tested to standards not recognised by Canadian authorities. For the purposes of installation of this design in ASME B31.3 piping systems, the piping system designer should confirm suitability and consider the following conditions:

> Design pressure: Design temperature: Corrosion allowance:

410 bar (6000 psi) -40 to +85°C (-40 to + 185°F) 0mm (0in)

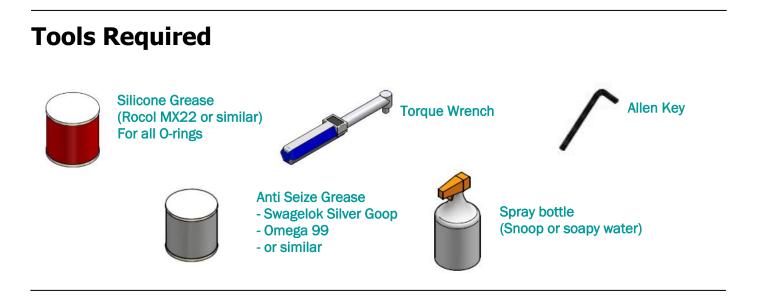


Important

Oasis recommends the use of class 12.9 plain black socket head cap screws with this product.

Some surface corrosion is normal on plain black cap screws over time.

The use of zinc plated cap screws is NOT recommended by Oasis due to potential weakening issues related to hydrogen embrittlement during the plating process of zinc plated cap screws.



Torque wrench hex sizes



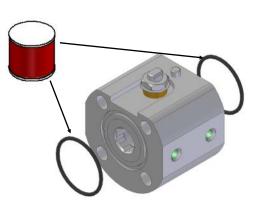


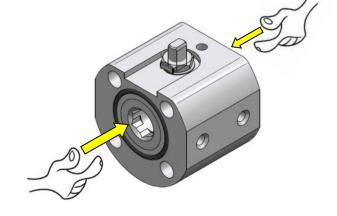
Installation Instructions

Setting The Standard

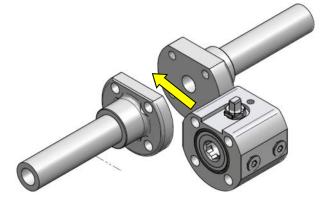
1. Grease O-rings.

2. Insert O Rings into grooves.

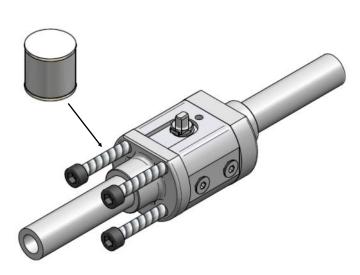




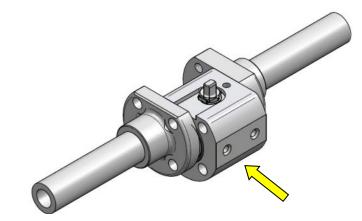
3. Line valve up with end caps.



5. Insert bolts.



4. Place valve into position.

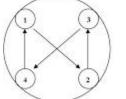


6. Torque bolts.

Recommended torque with anti-seize grease:

SV103= 26 Nm SV104= 26 Nm SV106= 60 Nm SV108= 70 Nm

Without anti-seize: SV103= 37 Nm SV104= 37 Nm SV106= 60 Nm SV108= 70 Nm **Torque pattern**



Four-Bolt

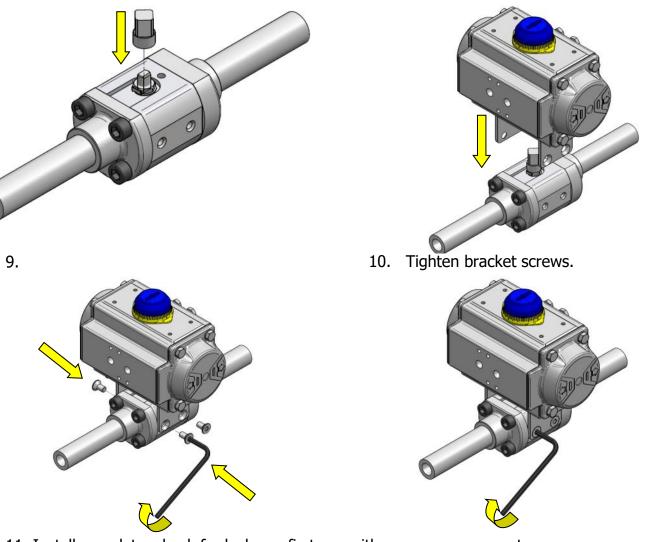
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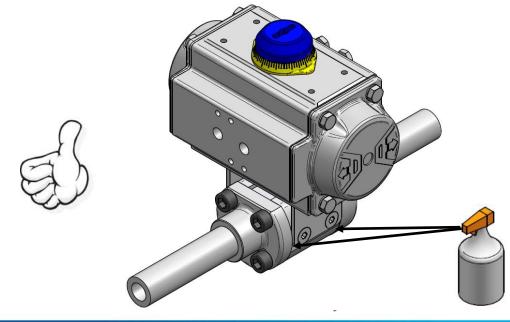


7. Install drive dog.

8. Install actuator and bracket.

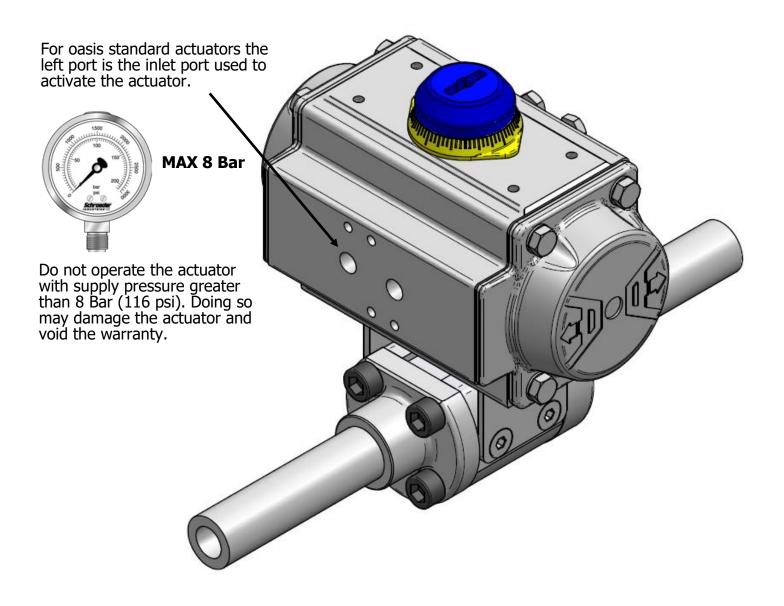


11. Install complete, check for leaks on first use with snoop or soapy water.





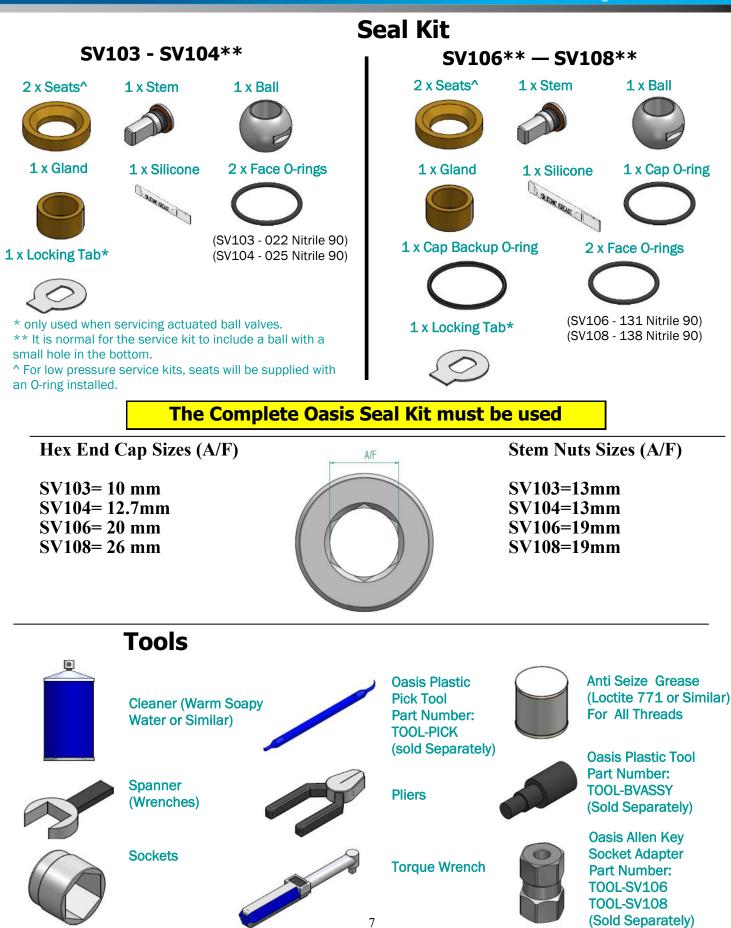
1. Connect air line and check connections for leaks.



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Servicing Instructions

Setting The Standard



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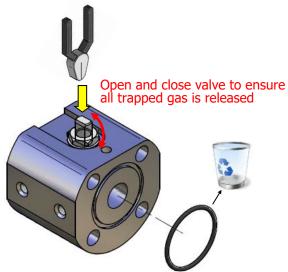
Oasis



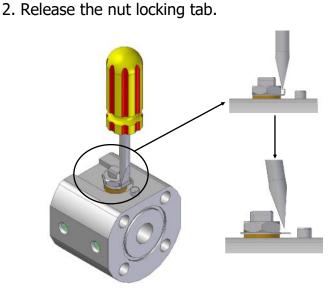
Servicing **Disassembly**

Setting The Standard

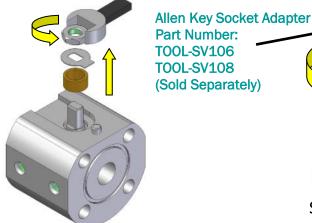
1. Remove the sandwich valve and remove sealing face O-rings.



3. Remove nut, locking tab and gland.

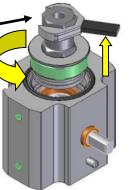


4. Unscrew and remove end cap.



5. Discard the seat.

Part Number: **TOOL-SV106 TOOL-SV108** (Sold Separately)



SV106 / SV108

6. Discard the ball.





SV103 / SV104

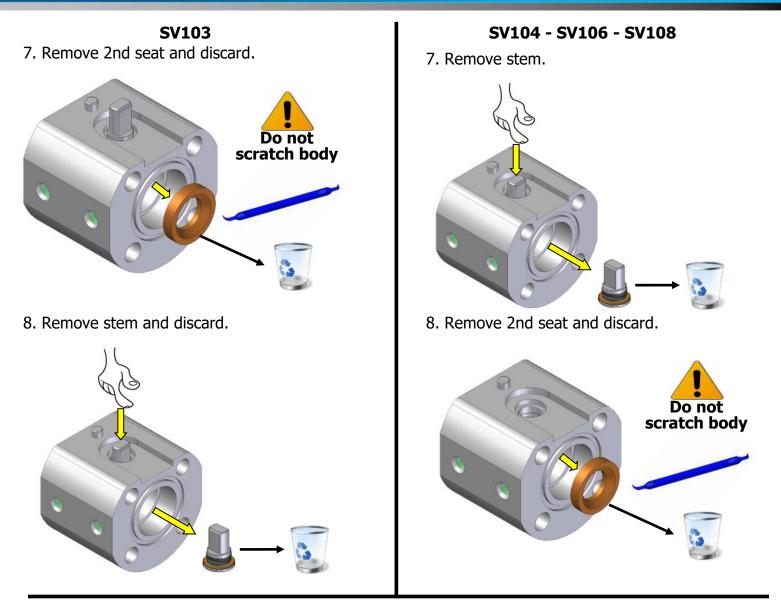
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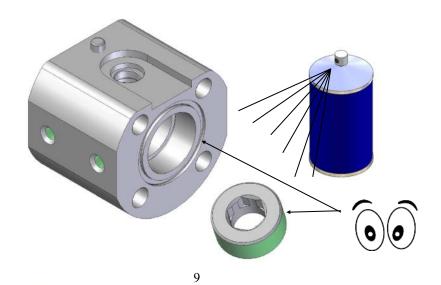


Servicing Disassembly

Setting The Standard



9. Clean components and inspect for damage.



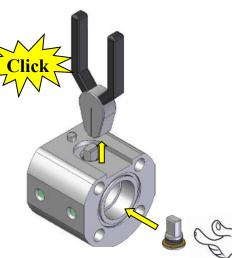


Servicing Assembly

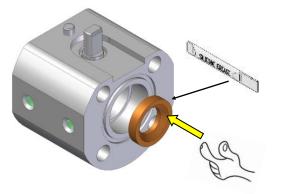
Setting The Standard

SV103

1. Insert stem assembly first.

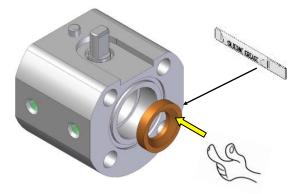


2. Apply silicone grease to new seat and install. Take care not to pinch O-ring when installing low pressure seat.

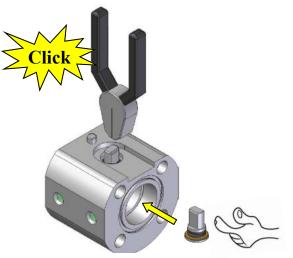


SV104 - SV106 - SV108

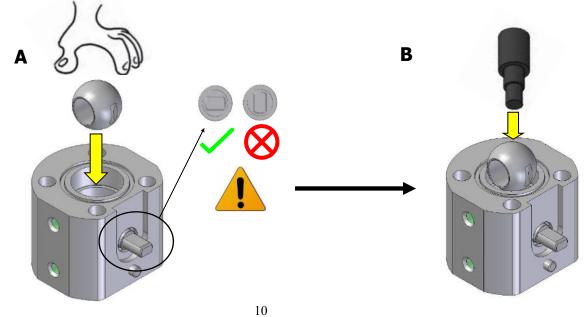
1. Apply silicone grease to new seat and install. Take care not to pinch O-ring when installing low pressure seat.



2. Insert stem assembly.

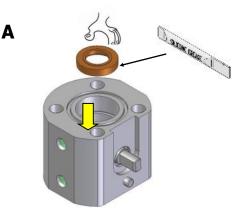


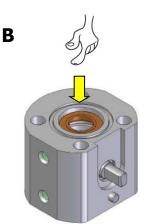
3. Insert ball.





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





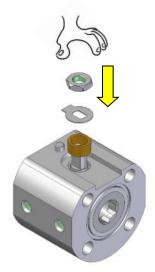
SV106 - SV108 SV103 - SV104 5. Apply anti seize to cap. 5. Fit new O-rings and back-up to end cap. - and sole 6. Tighten end cap. 6. Tighten end cap. Allen Key Socket Adapter Part Number: Recommended T00L-SV106 **End Cap Torques:** T00L-SV108 (Sold Separately) SV103=35Nm SV104=60Nm Recommended **End Cap Torques:** SV106=120Nm SV108=120Nm



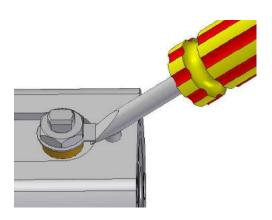
Servicing Assembly

Setting The Standard

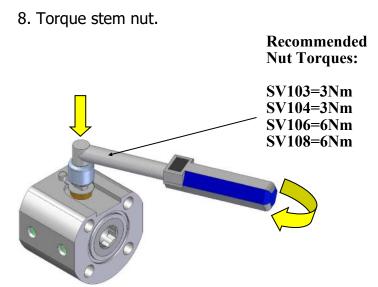
7. Assemble gland, locking tab and nut.



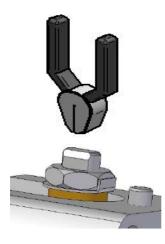
9. Bend locking tab & lock the nut.



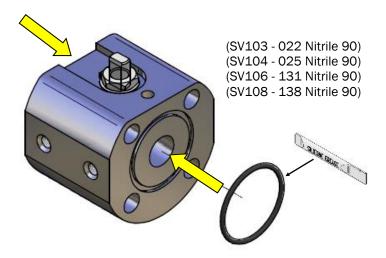
11. Install seal face O-rings.

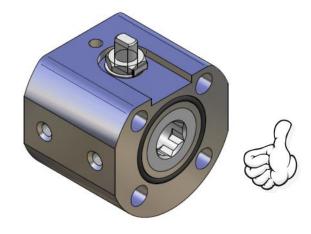


10. Make Tab flush by crimping with Pliers.



12. Done! Follow installation instructions on page 3 to refit sandwich valve.





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