



SV100 Series Sandwich Valve Instruction Manual

AWARNING

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





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.

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) $-40 \text{ to } +85^{\circ}\text{C} (-40 \text{ to } + 185^{\circ}\text{F})$ **0mm (0in)**



Setting The Standard

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 platted 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





Setting The Standard

1. Mount sandwich valve end caps.



2. Grease O-rings and position in grooves.



3. Position valve.



4. Tighten bolts to the recommended torque.

4. Insert bolts.



5. Installation complete, Check for leaks on first use with Snoop or soapy water.





Operation Instructions

Setting The Standard

1. Closed.



2. Opened.



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

Servicing Instructions

Setting The Standard



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We reserve the right to modify product specifications without prior notice.

TOOL-SV108 (Sold Separately)



Servicing Disassembly

Setting The Standard





Servicing Disassembly

Setting The Standard





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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.



3. Insert ball.



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.





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Servicing Assembly

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Setting The Standard

SV106 - SV108

5. Apply silicone grease to new seat and install into end cap. Take care not to pinch O-ring

when installing low pressure seat.

SV103 - SV104

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



6. Apply anti seize to cap.





6. Fit new O-rings and back-up to end cap.

7. Tighten cap.







Servicing Assembly

Setting The Standard

8. Insert handle.

9. Torque nut.



12. Servicing complete, install the valve as per instructions on page 3.

