



TH900 Series Actuated Cylinder 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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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

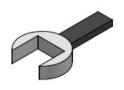


Ensure the system is clean of debris, vented and isolated before any installation or servicing work is carried out.

Attention!

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

Tools Required



Spanner (Wrenches)



Anti Seize Grease

- Swagelok Silver Goop
- Omega 99
- or similar



Spray bottle (Snoop or soapy water)



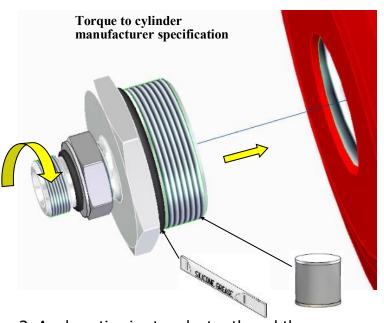
Silicone Grease -Rocol MX22 - Or similar For all O-rings



Installation Instructions

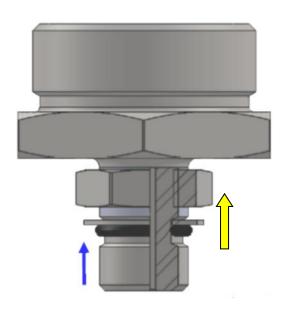
Setting The Standard

1. Attach adaptor to tank, applying anti-seize to large thread, silicone grease to large O-ring and torque to cylinder manufacturer specification.

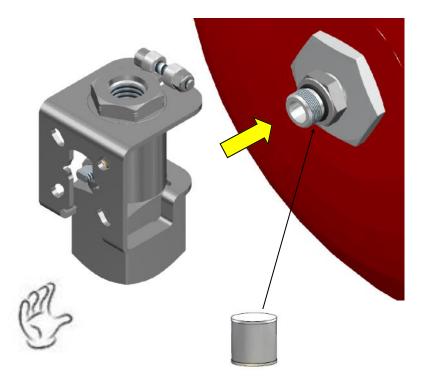


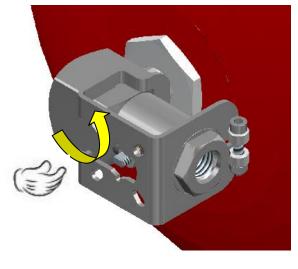
3. Apply anti-seize to adaptor thread then screw body fully onto adaptor by hand.

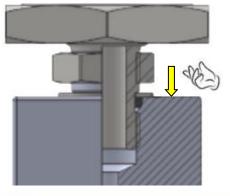
2. Back off lock nut as far as possible. Push back up washer and O-ring down as far as possible.



4. Align valve by unwinding no more than one turn. Screw adjustable nut out until it contacts washer.



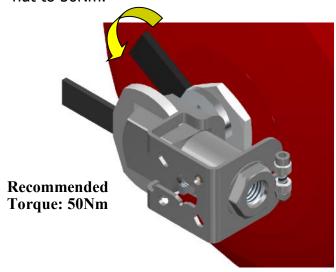




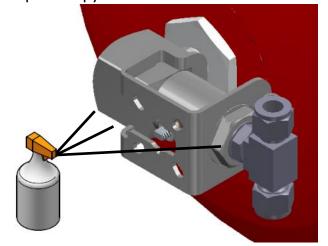
Installation Instructions

Setting The Standard

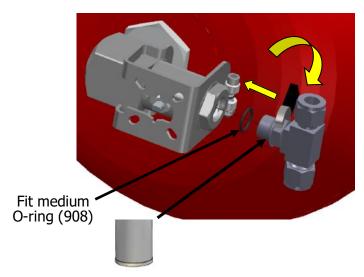
5. Using 2 wrenches, tighten lock nut to 50Nm.



7. Test all joints for leakage during first use with Snoop or soapy water.



6. Apply anti-seize to fitting thread and attach fitting to outlet.



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



1. Open 2. Closed

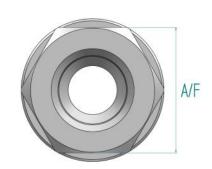
Recommended Spanners for:

Hex End Cap (A/F) = 34mm

Stem Nut (A/F) = 13mm

Adaptor (A/F) = 42mm

Adaptor Positional Hex Nut (A/F) = 26mm

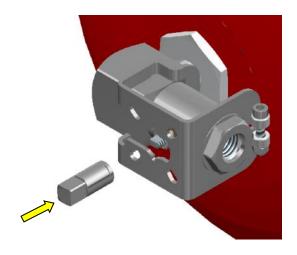




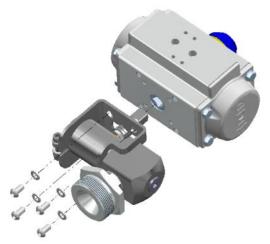
Operation Instructions

Setting The Standard

7. Install the dive dog

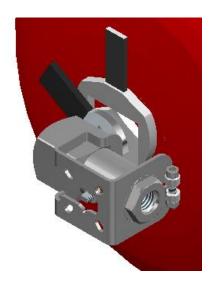


8 Install the actuator and tighten the screws securely.



Note:

If not using an Oasis supplied actuator install as per the system designers specification.



Servicing

Setting The Standard

Service Kit Parts









1 x Locking Tab



1 x Cap Back up O-ring



1 x Cap O-ring



1 x Small Adaptor O-ring

(908)



2 x SAE Port O-rings

(906)(908)

The Complete Oasis Seal Kit must be used

1 x Large Adaptor O-ring

Tools Required



Cleaner (Warm Soapy Water or Similar)



TOOL-PICK (Sold separately)



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



Spanner (Wrenches)



Torque Wrench



Sockets



Pliers



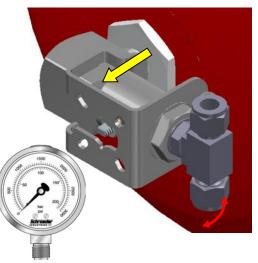
Oasis Plastic Tool Part Number: **TOOL-BVASSY** (Sold separately) or Similar



Servicing **Disassembly**

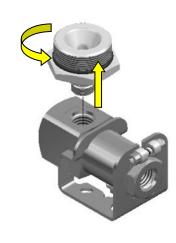
Setting The Standard

1. Vent pressure from system and remove valve.



4. Loosen the bracket clamp nuts and remove the bracket

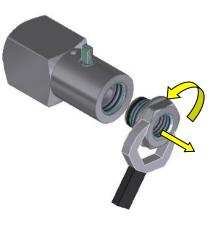
2. Remove adaptor.



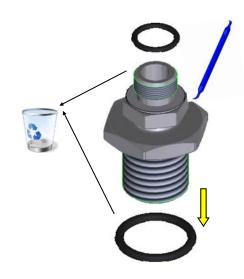
5. Bend the locking tab down



6. Remove end cap.



3. Discard adaptor O-rings.



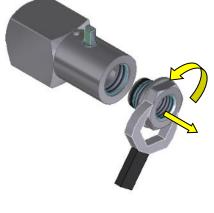
6.Remove the locking tab and half nut. Discard the locking tab

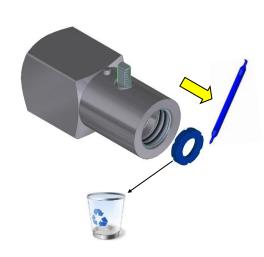


7. Remove and discard the seat.



5. Remove and discard gland.







Servicing Disassembly

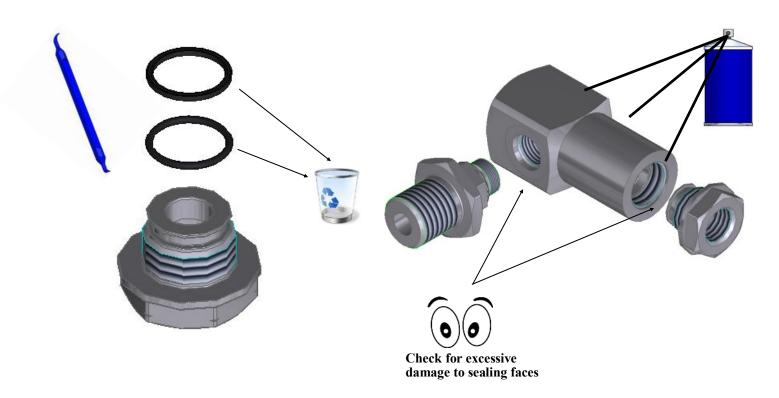
Setting The Standard

- 8. Discard the ball.
- 9. Discard the stem.
- 10. Discard the second seat.



11. Discard the cap O-rings.

12. Clean the components and inspect for damage.

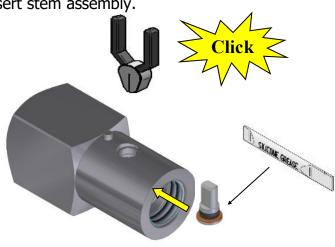


Servicing Assembly

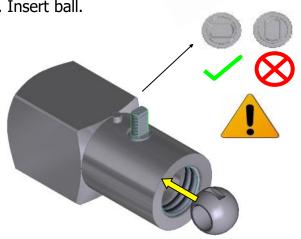
Setting The Standard



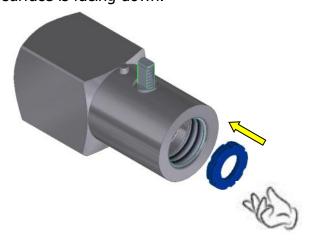
2. Apply grease to the stem O-ring and insert stem assembly.



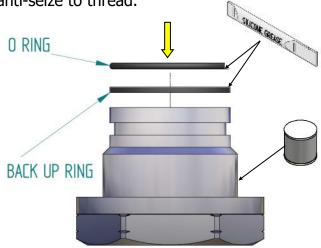
3. Insert ball.



4. Insert 2nd seat. Ensure the curved surface is facing down.

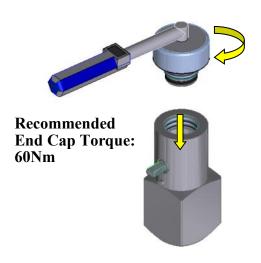


5. Grease & fit cap O-rings. Apply anti-seize to thread.



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

6. Tighten end cap.

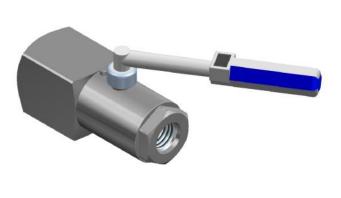


Servicing Assembly

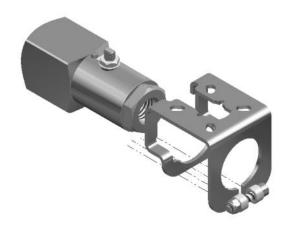
Setting The Standard



9. Torque half nut to 3NM



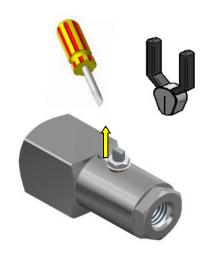
11. Slide the bracket onto the valve.



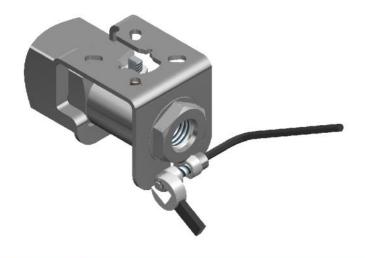
8. Place the locking tab and screw the half nut onto the spindle



10. Bend locking tab up to lock the half nut



12. Tighten the clamp nut. Torque to 8 NM

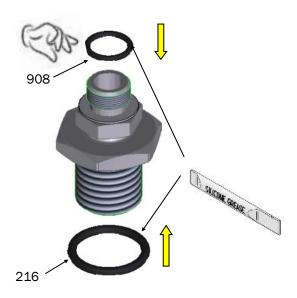


16

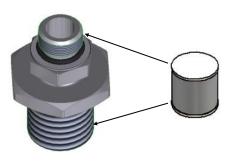




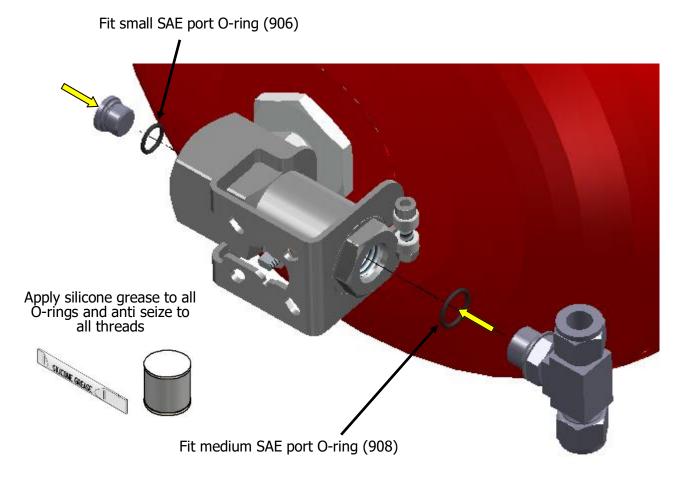
13. Apply grease O-rings and fit to adaptor.



14. Apply anti-seize to threads.



15. Follow installation instructions on page 3 of this manual for re-installation of valve. Replace SAE port O-rings with those supplied in service kit.



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