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DRT-43-4 EZ Solenoid Inline Shutoff

Product Description



EZ Solenoid Inline Shutoff

The EZ Solenoid Inline Shutoff gives the rebreather diver positive control of the on-board oxygen supply when dealing with ascents or with troubleshooting. Located near the oxygen manual-addition valve, it also allows for easy connection of an off-board oxygen source. Only one hose leaves the oxygen cylinder and plugs into the manifold mounted to the oxygen addition valve.

A Right-Angle Adapter (RG1350/RG1355) must be used to route the solenoid hose up thru the slot in the frame with oxygen manual-addition hose from the first stage. It is suggested that the oxygen-regulator Over-Pressurization (OP) valve be moved to the original position of the solenoid hose in order to better protect it.

Installation

First-Stage Hoses, Over-Pressure Valve and Port-Plug

- Using an 11/16 open-end (or similar) wrench, remove the oxygen (green) low-pressure hose from the canister.
- Using a 9/16 open-end wrench, remove the other end of the hose at the oxygen-regulator first stage.
- Using a 1/2-inch open-end wrench, remove the OP valve from the oxygen-regulator first-stage.
- Insert the OP valve in the hole where the low-pressure hose was removed, and carefully tighten using a 1/2-inch open-end wrench. Do not over-tighten.
- Insert a port-plug (RG1245Black) in the hole where the OP valve was removed, and carefully tighten using a 1/8-inch Allen wrench. Do not over-tighten.

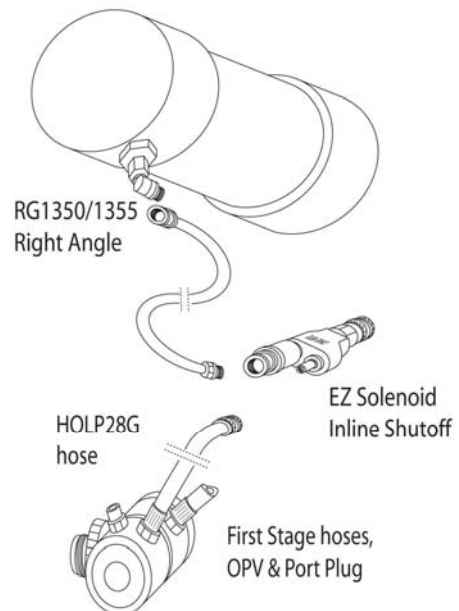
NOTE: The rebreather should never be used without the OP valve. It is an important piece of safety equipment should the high-pressure seat of the first-stage fail, causing a rupture of a hose and potential injury.

Canister Right-Angle Adapter

- Using an 11/16-inch wrench, remove the hose from the oxygen-supply port at the bottom of the CO₂ absorbent canister (if not already done).
- Using an 11/16-inch wrench, carefully install a RG1350 Right-Angle Adapter (not included) to the oxygen-supply port at the bottom of the absorbent canister and tighten. Align the Adapter so the open-end is pointed inwards, or towards the centerline of the rebreather. Do not over-tighten the fitting.
- Using an 11/16-inch wrench, carefully attach an H0LP28G oxygen hose to the Right-Angle Adapter and tighten. Do not over-tighten the fitting.
NOTE: A hose with an in-line shutoff should not be used in this application.
- Route the hose through the slot in the frame and along the right shoulder to the EZ Solenoid Inline Shutoff and attach it, using a 9/16-inch wrench.

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- Remove the oxygen hose from the oxygen manual-addition valve on the right counterlung.
- Attach the EZ Solenoid Inline Shutoff to the oxygen manual-addition valve.
- Re-attach the oxygen hose to the open EZ Solenoid Inline Shutoff port.



Oxygen-Compatibility

Using oxygen-compatible materials and assembly processes that are today's industry standard, the EZ Solenoid Inline Shutoff is suitable for 100% oxygen use.

Care and Maintenance

Your EZ Solenoid Inline Shutoff will provide you years of service with proper care and maintenance. As with the other components of your O2Ptima rebreather, this involves post-dive care and regular professional service.

Note: Stainless steel can develop rust even when properly cared for.

Post-dive care: After use, thoroughly rinse the assembly in fresh water and allow it to thoroughly dry before storing it in a closed container. Do not hang or store any regulator components in a manner that puts strain on the hoses. Dive Rite recommends Salt-X for salt removal (www.salt-x.com).

Professional service: Over time, mineral deposits and salt build-up can accumulate on any component, which can adversely affect performance. Professional cleaning and service is the only way to remove these deposits and return the component to its proper working order.

To keep your rebreather working at its best performance, you should have the unit serviced at least once every year or 100 dives by a professionally trained technician.

Note: Avoid excessive pool use. Excessive use in chlorinated water can lead to premature discoloration and shorten the products life.

Cautions

The EZ Solenoid Inline Shutoff adds one more potential failure point in the oxygen delivery system of the rebreather. You **MUST** make sure that the EZ Solenoid Inline Shutoff remains open, unless you are trained and confident in diving your rebreather manually. Be sure to include the EZ Solenoid Inline Shutoff in your pre-dive check.

If the EZ Solenoid Inline Shutoff is left closed and you fail to dive the rebreather manually, hypoxia and death can occur. Note that the rebreather electronics will try to automatically activate the solenoid, but **WILL NOT** deliver oxygen at a fail-safe 0.20 PO₂ because the solenoid's oxygen source will be closed by the EZ Solenoid Inline Shutoff.

Water intrusion to the solenoid oxygen-supply hoses may occur when using the EZ Solenoid Inline Shutoff to switch between on-board and off-board gas sources while in the water. This could cause contamination to the solenoid and possibly a solenoid malfunction.

To switch oxygen-supply sources, the following procedure should be followed: 1) Close the slide valve on the EZ Solenoid Inline Shutoff, 2) Disconnect the current supply hose, 3) Attach new supply hose, 4) Operate the "manual-add" valve on the Oxygen counterlung to clear any water from lines, 5) Open slide valve, 6) Verify that solenoid is working.

DEVELOPED BY	Dive Rite 175 NW Washington Street Lake City, FL 32055 Phone: 386.752.1087 Fax: 386.755.0613 Web: www.DiveRite.com
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