

**OmniSwivel International
GSB-V2 Instructions
March 6th 2024**



Please Note:

The GSB-V2 is for divers tainted in it's use. Please read instructions before use to ensure set up is correct. Before use check the handwheel grub-screw to be tightened to the recommended torque of 20.33 Nm (15 in-lbs).

Authorized UK Market Representative:

**Maxshow Limited
The Forge (Unit 13)
Narborough Wood Park
Desford Road
Enderby
LE19 4XT
United Kingdom
Tel. +44 1162 387603**

**Email: peter@miflexhoses.co.uk
Web: www.omniswivel.co.uk**

Authorized European Market Representative:

**Maxshow Limited
77 Camden Street Lower
Dublin
D02 XE80
Ireland
Tel: +353 (0)15392832**

**Email: sales@omniswivel.co.uk
Web: www.omniswivel.co.uk**

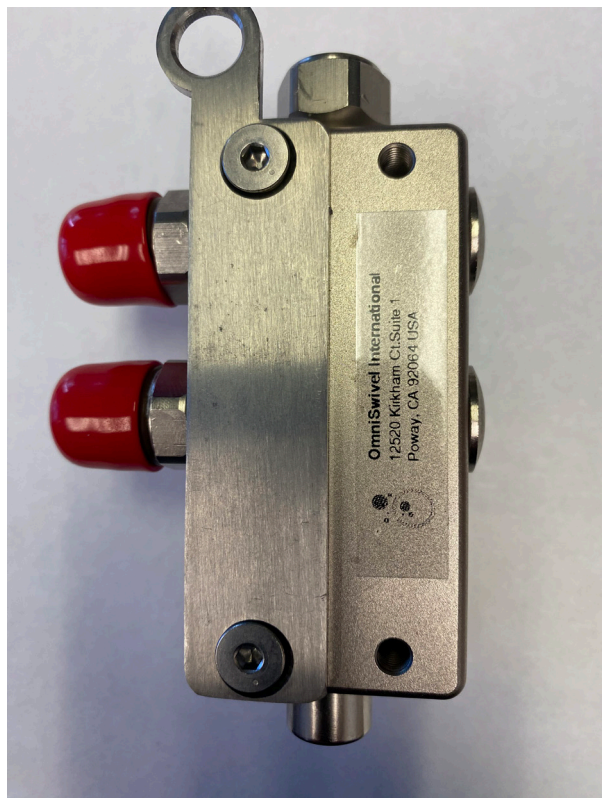
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General Installation Procedures:

Using the supplied 3.2 mm (1/8") Hex Key wrench, remove 2 screws from back plate located behind the Gas Switch Block. Install onto 50 mm (2") webbing on BCD or equivalent. Tighten back plate screws securely with torque of 20.33 Nm (15 in-lbs.).

Attach primary air source to the top inlet #1R of the 9/16"-18 male fittings. Use a 16mm (5/8") wrench to secure the connection. Attach secondary air source to other inlet #2R 9/16"-18 male fitting. Secure the connection using same wrench.

Attach 2nd stage hose to the 3/8"-24 female outlet port of the Gas Switch Block. Tighten with appropriate wrenches and torque of 20.33 Nm, (15 in-lbs.).



Backplate showing two removable screws used to install GSB-V2 to 50mm, or (2") Webbing.



Suggested location for mounting GSB-V2. A 81 cm, (32") low pressure scuba hoses are recommended.

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Suggested Configuration:

Hard-mounting the bracket to the divers belt via the backing plate by sandwiching the 50mm (2") webbing on the divers harness is the recommended way to mount the unit. Another method would be to attach a snap-bolt to the ring on the backing plate and then attach the snap-bolt to a D-ring on the divers left side hip area.

****Do not attach the GSB-V2 to a weight belt, or detachable weight system****

The standard configuration is to mount on the divers left hand side. Routing the hoses towards the back of the diver and to the Primary and Secondary Air Sources.

The diver should attach the Primary Gas Supply into Inlet #1R as pictured in Position #1. This should always be how the diver enters the water with a known primary gas supply. Position #1 is the primary position to be using during operations.

The divers Redundant Air Supply should be attached to inlet #2R. This position is used to select the Redundant Gas Supply. Should the diver sense a problem breathing, they are to activate the Redundant Air Source by turning the knob forward to position #2.

On training dives it is recommended that the diver practice switching the redundant air source in order to develop muscle-memory and have the confidence to know what to do in an unforeseen emergency.

****Just a note: the Inlets #1L and #2L will function similarly to Inlets #1R and #2R but allow the diver to route the hoses towards the divers right hand side. In this instance the diver would have to turn the knob counter-clockwise towards their back in order to select the Redundant Air source.****



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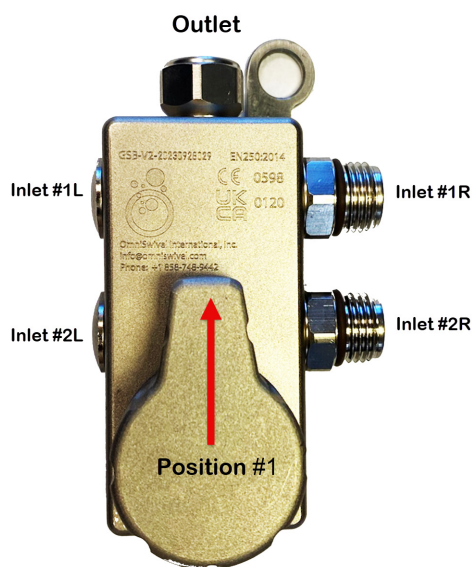
Before Use Checks:

- Before use each GSB-V2 should be checked as follows:
- Place the GSB in line with the low-pressure side of the 1st stage regulator hoses and connected to a 2nd stage regulator.
- **Initial Test:** Rotate the knob from the 1st position to the 2nd position to ensure the knob is rotating freely and is free from restriction.
- **Pressurization Test:** With the knob in the 1st position, open the cylinder and pressurize the system.

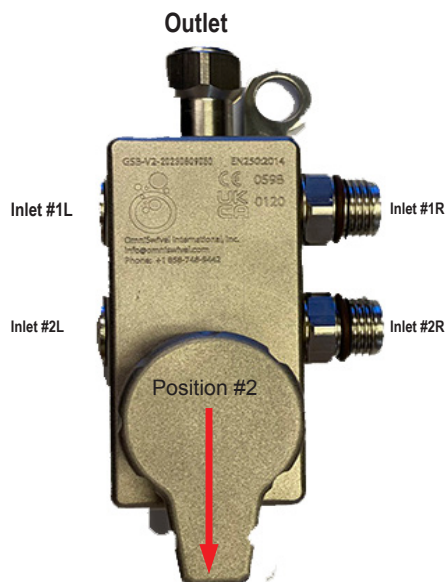
****Warning** Do not pressurize the gas switching block with the knob in the down position, or center position. Doing so can damage the o-rings.****

- Rotate the knob again between the 1st and 2nd positions to ensure that while under pressure, the knob is rotating freely and there is no interruption of air flow.
****This will also ensure that both cylinders are turned on.****
- Inhale from the 2nd stage on both 1st and 2nd position to ensure a full flow is being achieved. Standard low pressure scuba hoses approximately 81 cm (32") should be used.
- **Leak Test:** Submerge the GSB-V2 in a container of fresh water. Ensure that there are no signs of leaking, or air bubbles coming from the GSB-V2.
- If all tests are correct and there are no leaks; then the GSB is safe to dive.

Primary Position



Redundant Air Source Position



Attaching the Outlet:

Simply use a standard style scuba hose with a 3/8-24M fitting to attach to the outlet with the other end going directly to the 2nd stage regulator.

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Maintenance:

It is recommended that the Gas Switching Block be serviced every 2 years, or every 200 dives, whichever comes first. Service of Gas Switching Block should be completed by a certified repair technician or repair facility. After each dive the GSB-V2 should be rinsed thoroughly with the regulator hoses attached.

****Warning****

DO NOT attempt to disassemble, or repair the GSB-V2 without prior training. Doing so could cause the block to malfunction while underwater resulting in serious injury or death. Any unauthorized repair or disassembly will void the manufacturer's warranty.



Warranty:

- OmniSwivel International warrants to the purchaser that goods sold by OmniSwivel International to the purchaser will be free of defects in materials and workmanship for a period of one (1) year after the original invoice date.
- This warranty does not apply to goods that have been subject to abuse, neglect, improper installation, alteration or misuse after delivery to the carrier for the shipment to the purchaser. Any claims covered under this warranty shall be submitted to OmniSwivel International directly for verification that the warranty set forth in these terms and conditions as limited by this paragraph is applicable.
- All returns are subject to the Returns Policy described above.
- In the event OmniSwivel International determines that the warranty set forth in the above-described paragraphs is applicable to any goods, OmniSwivel International shall, as the purchaser's sole remedy, replace, repair or at OmniSwivel International's sole discretion, issue to the purchaser a credit for an amount not to exceed the purchase price paid by the purchaser for the affected goods. OmniSwivel International shall have no liability with respect to warranty claims made by the purchaser more than one (1) year after OmniSwivel International's sale of the goods involved to the purchaser. In no event shall OmniSwivel International be liable to the purchaser for special incidental or consequential damages.



Managing Pressure for over 25 years.

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****Notice****

Use of a switch block will result in an increase in inhalation effort. This may be reduced by using high performance first stages. These are typically environmentally isolated balanced diaphragm first stages. Using a downstream piston first stage, also called an unbalanced piston first stage, will result in a greater increase in inhalation effort. At 50 bar cylinder pressure an increase in breathing effort of up to 30% has been seen in objective testing. The GSB-V2 has a maximum pressure rating of 20 bar, or 290 psi.

Protection from the risk of drowning: The OmniSwivel Gas Switch Block makes it possible to supply the user with a breathable gaseous mixture and by allowing the connection of a primary and a secondary gas source through the gas switching block (GSB-V2) the diver can easily and quickly switch from the primary gas source to the secondary gas source under foreseeable conditions of use and taking account in particular of the maximum depth of immersion.

**The depth of equipment certification is 50 meters, or 165 feet.
The temperature range for use is 4 C (39 F) to 38 C (100 F).**

**The air supply shall meet the requirements for
breathable air in accordance with EN12021.**

CE & UKCA Certification

The OmniSwivel GSB-V2 described in this manual has received the CE or UKCA type-examination certificate according to European & United Kingdom Regulations establishing the conditions of release into the market & the fundamental safety requirements for third category Personal Protective Equipment (PPE).

Certification tests have been conducted according to the core requirements for health and safety set by European regulation 2016/425 or UK regulation 2016/425 as brought in UK law and amended.

The CE, EN250 & UKCA marks on the product denote the compliance with the mentioned requirements. 0598 number next to the CE markings is the identification code for SGS Fimko Oy Takomotie 8 00380, HELSINKI, Uusimaa Finland. 0120 number next to the UKCA markings is the identification code for SGS UK Rossmore Business Park Ellesmere Port, South Wirral, Cheshire CH65 3EN United Kingdom, both EU & UK are bodies controlling product compliance with above mentioned EU & UK regulations, as per Module D of the EU regulation 2016/425, or Module D of the UK Regulation 2016/425, and EN250:2014 EN 250:2014 - The requirements and tests defined by the EN 250:2014 aim to ensure a minimum safety level for the operation of open circuit underwater breathing equipment. EN250 norm defines the minimum technical standards of acceptance for recreational scuba diving regulators & the EN250:2014 is the latest version of the EN250 norm. All OmniSwivel Gas Switching Blocks produced after 2024 have passed the certification test required by EN250:2014

EU Declaration of Conformity: www.omniswivel.com/blogs/declaration-of-conformity/gsb-v2-eu-declaration-of-conformity

UK Declaration of Conformity: www.omniswivel.com/blogs/declaration-of-conformity/gsb-v2-uk-declaration-of-conformity

OmniSwivel international, San Diego, CA 92064 - Tel: 858.748.9442 - Email: info@omniswivel.com