

Owner's Manual & Safety Instructions

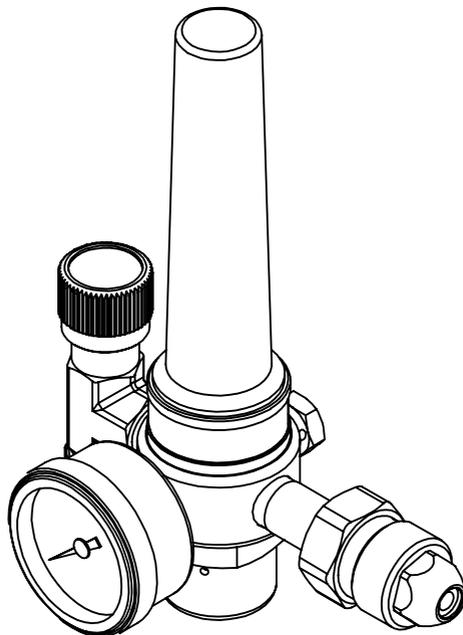
Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

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OLSEN™

REGULATOR FLOWMETER CO2 / ARGON / HELIUM

63789



Visit our website at: <http://www.harborfreight.com>

Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

Specifications

Pressure Setting	50 PSI Fixed
Maximum Inlet Pressure	3000 psig
Flow Range	10-60 SCFH Argon 10-60 SCFH CO ₂ 20-150 SCFH Helium

IMPORTANT SAFETY INFORMATION

Installation Precautions

1. **DANGER! DO NOT CONNECT TO ACETYLENE CYLINDER.** This Regulator is set to 50 PSI, a pressure that can cause acetylene to explode.
2. Assemble only according to these instructions. Improper assembly can create hazards.
3. Wear ANSI-approved safety goggles and heavy-duty work gloves during assembly.
4. Keep assembly area clean and well lit.
5. Keep bystanders out of the area during assembly.
6. Do not assemble when tired or when under the influence of alcohol, drugs or medication.
7. Do not use oil or grease on any gas connection.
8. Do not use an adapter to attach this Regulator to any gas other than those listed.
9. Do not attach gas at a pressure above the Maximum Inlet Pressure listed above.

Operation Precautions

1. This product is not a toy. Do not allow children to play with or near this item.
2. Use as intended only.
3. Inspect before every use; do not use if parts are loose or damaged.
4. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Cylinder Safety

Cylinders can explode when damaged.



1. **Do not weld on a pressurized or closed cylinder.**
2. **Do not allow an electrode holder, electrode, welding torch, or welding wire to touch the cylinder.**
3. **Keep cylinders away from any electrical circuits, including welding circuits.**
4. **Keep protective cap in place over the valve except when the cylinder is in use.**
5. **Use only correct gas shielding equipment designed specifically for the type of welding you will do.** Maintain this equipment properly.
6. **Protect gas cylinders from heat, being struck, physical damage, slag, flames, sparks, and arcs.**
7. **Use proper procedures to move cylinders.**
8. **Do not stand in front of Regulator when opening cylinder valve.**

Installation Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

1. Wear ANSI-approved safety goggles. To clean the shielding gas cylinder's valve, keep your face and ears away from the valve then open it slightly and immediately close it. This is called "cracking" the valve. It clears the valve of dust before connection.
2. Connect the Regulator to the shielding gas cylinder's valve.
3. Align the Regulator so its gauge is sticking straight up, then wrench tighten the Regulator to the shielding gas cylinder's valve.
4. Turn the Knob on the Regulator fully clockwise to prevent flow.
5. Connect the gas line from the outlet of the Regulator to your welding equipment. Wrench tighten all connections.

Note: Do not use thread seal tape or compound on the fittings on this Regulator. They will weaken any connection they are used on.

Operation Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

1. Check that the gas line and welding system are completely set up and all connections are tight.
 2. Check that the Regulator is securely fastened to the shielding gas cylinder and the Knob on the Regulator is fully closed.
 3. Open the valve on the shielding gas cylinder slightly until the cylinder pressure gauge stops moving, then open it fully.
 4. Close the gas valve on the welder. Check all pressurized connections for leaks using soapy water. Tighten or replace leaking connections as needed.
 5. Open all gas valves that are downstream from the Regulator.
 6. Slowly open the Knob on the Regulator while keeping an eye on the steel ball.
- Note:** The steel ball will line up on different scales for different gasses. This Regulator has scales for argon (AR), carbon dioxide (CO₂), and helium (HE).
7. The flow is set when the center of the ball lines up with the desired SCFH flow rate.
 8. Close valve on welder until ready to start welding.
 9. After use, close cylinder valve fully and open all valves downstream from the Regulator to release all pressure on it. Open the Knob on the Regulator slightly to preserve valve seat.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Note: Replacement parts are not available for this item.

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