

**MASS CASUALTY SYSTEM ASSEMBLY.
OXYGEN REGULATOR(S), FLOWMETERS
AND HOSE ASSEMBLY**

FLOTEC INC

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The FLOTEC pressure reducing oxygen regulator utilized with the Mass Casualty system Assembly is designed to provide a constant flow of oxygen at approximately 50 PSI through the optional one or two DISS check valve(s). FLOTEC regulators incorporate internal safety relief valves to prevent overpressurization of the regulator. The inlet connection is a CGA 540 nut and nipple style. FLOTEC products contain no latex or latex byproducts.

The Flotec oxygen Flow Meter is designed to provide a constant flow of oxygen through the twelve-position selector knob at different LPM flow rates.

The FLOTEC Flow meters have a metal inlet filter and rotor filter body and are available with a complete range of inlet configuration style such as Chemetron, Ohio, Female Swivel DISS or bare 1/8" Female pipe ports. Outlet connections include Hose Barbs or DISS fittings..

SPECIFICATIONS:

Oxygen Regulator

Operating Pressure: 250-2216 PSI

Outlet Pressure: Nominal @ 50 PSI

Flow Capacity: From 1/2 LPM to 25 LPM
thru optional DISS-1240
regulator Check valve(s)

Inlet Configuration: CGA 540 Nut and Nipple Style

Outlet Configuration: DISS-1240 check valve

REPLACEMENT PARTS:

- DISS-1240 Check Valve
- Inlet and Outlet Connections
- 316 S.S. Sintered Filter Disk
- 20 micron Sintered Stainless Steel filter body w/lased shim cup
- Piston/Manifold sub-assembly
- Gauge w/Rubber Boot
- CGA 540 Nut and Nipple
- Flow Meter Hose barb or DISS-1240 outlet
- O-ring 1 1/16-20 FM Body THD
- CGA 540 Tee
- Lead and Hose ASSY

INSTALLATION: CGA 540 Connector: Mount the CGA 540 Tee Port to the oxygen supply cylinder valve. Be careful to avoid cross-threading the connection. To achieve a proper seal for threaded cylinder and regulator connections, which use O-Rings, ensure that the O-Ring is properly positioned before tightening these connections..

Point of installation, local and state regulations may require venting of the relief valve to outside of the use/storage area. The regulator can be placed in an enclosed, ventilated closet, or manned by an operator who can shut off the tank if necessary.

WARNING: If the internal safety relief valve should open because of a malfunction, large quantities of gas can be released. Some Medical gases can be dangerous. Large quantities of some medical gases can evacuate the oxygen from a room which could cause a person to faint and/or asphyxiate. Consult CGA standard # G-8.1 for other cautions.

INSTALLATION: Oxygen Flow Meter Sub- Assembly:

Check to insure filter disk is installed. Do not allow Teflon tape to cover first thread of fitting. Use no more than two turns of tape.

PREVENTIVE MAINTENANCE: All regulators and Flow Meters should be tested and cleaned periodically to insure proper performance. The frequency of testing should be established according to usage, but it should be performed at least once per year to evaluate for damage, contamination, wear and performance.

LEAK TEST: Attach the Mass Casualty ASSY to an appropriate cylinder, plug all outlets, turn the flow selector to "OFF" and slowly open the cylinder valve. Apply a compatible leak test solution to all outlets, fittings, hoses and the junction of the gauge and regulator body to check for bubbles. Tighten fittings as required to eliminate all external leaks. DO NOT over tighten threaded connections. Close cylinder valve and allow residual pressure to vent from system components prior to closing all outlets..

WARNING:

Disassembly, assembly, and testing of MASS Casualty Assembly should be performed only by trained personnel. The work area must be free of hydrocarbon contaminants and residues because of the danger of spontaneous combustion when residues are exposed to gaseous oxygen.

SAFETY WARNINGS:

1. The use of FLOTEC oxygen regulators for gases other than compressed oxygen of up to 3000 psi is expressly prohibited by FLOTEC and the user must assume all liabilities. The use of FLOTEC oxygen Flowmeters for gases other than compressed outlet oxygen of up to 70 psi is expressly prohibited by FLOTEC and the user must assume all liabilities.
2. Use no oil or grease.
3. Never administer oxidizing gases when smoking or when near an open flame.
4. Never use medical gases from a cylinder without reducing the pressure through a suitable regulator intended for that gas.
5. Ensure that the threaded fitting on regulators and flowmeters are properly mated for the gas intended.
6. Never permit compressed oxygen to enter a regulator suddenly. Always open the cylinder valve slowly.
7. Fully open the cylinder valve when a regulator is attached and in use.
8. Never leave a cylinder valve open with regulator attached when regulator is not in use.
9. Before a regulator is removed from a cylinder, fully close the cylinder valve and release all residual gas pressure from within the regulator.
10. Never interchange regulators, hoses, or other equipment with similar equipment intended for use with other gases. Pressure regulators and related fittings should never be handled with oily or greasy hands or gloves. Never hold hand over the outlet(s) to test for the presence of pressure.
11. Never use oxygen as a pressure medium to purge obstructed pipelines or equipment, to operate pneumatic tools, or to build up pressure in any tanks.
12. Do not stand in front of a regulator outlet when opening the cylinder valve in case foreign particles are present which could cause a hazardous malfunction of the regulator.
13. Oxygen therapy may be critical treatment. The use of the regulator should be made in strict accordance with the prescription and instructions of a physician.
14. Secure cylinders to wall, stand, or cart in accordance with local fire codes.
15. The regulator is equipped with an internal safety relief valve, which is designed to protect the regulator. Downstream equipment used in conjunction with the regulator should be equipped with suitable safety valves to prevent overpressurization and damage.
16. Oxygen must never be allowed to contact oil, grease or other petroleum-based substances. Therefore, do not use oil or grease on oxygen regulators, cylinders, valves or other related equipment. Do not use or store oxygen equipment near excessive heat (>125 F or 51.5 C) or open flame.
17. CAUTION: Do not use organic-based threaded sealants on any portion of the regulator. Use only Teflon thread-sealing tape or oxygen service compound.
18. Never leave pressurized oxygen within a regulator. Always purge residual gases when not in use.
19. The regulator must be tight to prevent CGA 540 Nipple O-ring extrusion.
20. The regulator must be tight to prevent leaking around the CGA 540 Nipple and those using a tip seal or face washer.
21. The regulator must NOT be twisted or turned when it is tight on CGA 540 Tee.

Flotec Patent #'s: 4909476, 5785050, 6026854, 6082396, 6328280, 7089956, 4982760, 6148841, 7255127

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Declaration of Conformity

Product identification

Product name : Regulators & Flow meters, Regulators with Flow meter.
Brand : Flotec
Cat. Number : RXXXX-XXXXX, FXXX-XXXXX, MXXXX-XXXXX, DXXXX-XXXXX
Batch/Serial Nr. : Numbered Sequentially

Manufacturer

Name : Flotec
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Representative : Brian Davidson
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Authorized Representative in Europe

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The Hague
Country : The Netherlands
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Notified Body

Name : UL International (UK) Ltd
Address : Womersley House, The Guildway
Old Portsmouth Road
Country : UK-Guildford, Surrey, GU3 1LR
I.D. Number : CE 0843

Means of conformity

Flotec Inc. declares that the product listed has been classified as Class IIb - Annex IX, Rule 11 and is in conformity with the essential requirements and provisions of Council Directive: 93/42/EEC

Signature

Place and date : Flotec Inc 9-22-03

Signature :



Name : Brian Davidson
[Name and Signature of authorized person within organization]

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Symbols

PSI
KG/CM²
BAR
MPA
HP
LPM
SN



Symbols

Definition

POUNDS PER SQUARE INCH
KILOGRAMS PER SQUARE CENTIMETER
KILOGRAMS PER SQUARE CENTIMETER
MEGA PASCAL
HIGH PRESSURE PORT
LITERS PER MINUTE
SERIAL NUMBER

USE NO OIL

CONSULT INSTRUCTIONS FOR USE



AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY