

**CARBON DIOXIDE 100% AND CARBON DIOXIDE OVER 7%
& OXYGEN MIX FLOWMETER**

FLOTEC INC

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The FLOTEC CO₂ 100% and CO₂ over 7% & O₂ mix Flowmeter is designed to provide a constant flow of CO₂ 100% and CO₂ over 7% & O₂ mix at different inlet pressure. In addition, the FLOTEC Flowmeter can simultaneously deliver a measured flow through the twelve-position selector. FLOTEC Flowmeters have a metal inlet filter and rotor filter body and are available in a complete range of Chemetron, Ohio, Female Swivel DISS or 1/8" Female pipe inlet connections and DISS fitting valve outlet connections. FLOTEC products contain no latex or latex byproducts.

SPECIFICATIONS:

Operating Range: 17, 20, 24, 30, 50, 58, 70 PSI

Flow Capacity: Minimum: 30 MLM; Maximum: 60 LPM
thru the 12 position selector

Temperature Range: -20 to 150F

Inlet Configuration: Chemetron, Ohio, Female Swivel
DISS or 1/8" Female pipe

Outlet Configuration: Hose Barb
DISS-1080A fitting

REPLACEMENT PARTS:

Inlet and outlet Connections

- 316L S.S. Sintered Filter disk
- 20 micron Sintered Stainless Steel
Rotor filter body w/ lased shim-cup

Rotor Assembly

O-ring the 1 1/16-20 FM Body THD

INSTALLATION: CO₂ 100% and CO₂ over 7% & O₂ mix Flowmeter Sub- Assembly:

Carefully remove red cap from inlet and outlet port by twisting out. **Do not pull cap straight out.**

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.

INSTALLATION: FMW or Solid Cover: Be sure is properly positioned Flowmeter Sub-Assembly and Cover before torque.

INSTALLATION: Pipe Connector: Use only Teflon tape on the threads as a sealant.

WARNING: Some Medical gases can be dangerous. Large quantities of some medical gases can push the CO₂ 100% and CO₂ over 7% & O₂ mix out of a room which can cause a person to faint and/or asphyxiate. Consult CGA standard # G-8.1 for other cautions.

PREVENTIVE MAINTENANCE: All Flowmeters 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 Flowmeter to outlet medical gas system, plug all flowmeter outlets, turn the flow selector to "OFF" and slowly open outlet medical system valve. Apply a compatible leak test solution to all outlets, fittings, and Flowmeter body to check for bubbles. Tighten fittings as required to eliminate all external leaks. DO NOT over tighten threaded connections. Replace o-ring if required. Close outlet system valve.

WARNING:

Disassembly, assembly, and testing of Flowmeters 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 CO2 100% and CO2 over 7% & O2 mix flowmeters for gases other than compressed carbon dioxide and oxygen mix of up to 70 psi outlet 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 flowmeters are properly mated for the gas intended.**
Never attempt to force an incompatible connection.
6. Never permit compressed CO2 100% and CO2 over 7% & O2 mix to enter a flowmeter suddenly. Always open the valve slowly.
7. Fully open the valve when a flowmeter is attached and in use.
8. Never leave a medical gas system valve open with flowmeter attached when flowmeter is not in use.
9. Before a flowmeter is removed, fully close the medical gas system valve and release all residual gas pressure from within the flowmeter.
10. Never interchange flowmeters, hoses, or other equipment with similar equipment intended for use with other gases. Flowmeters 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 CO2 100% and CO2 over 7% & O2 mix 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 flowmeter outlet when opening the medical gas system valve in case foreign particles are present which could cause a hazardous malfunction of the flowmeter.
13. CO2 100% and CO2 over 7% & O2 mix therapy may be critical treatment. The use of the flowmeter 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. Downstream equipment used in conjunction with the flowmeter should be equipped with suitable safety valves to prevent overpressurization and damage.
16. CO2 100% and CO2 over 7% & O2 mix gas must never be allowed to contact oil, grease or other petroleum-based substances. Therefore, do not use oil or grease on carbon dioxide and oxygen mix flowmeters, cylinders, valves or other related equipment. Do not use or store carbon dioxide and oxygen mix gas 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 threaded-sealing tape or oxygen service compound.
18. Never leave pressurized carbon dioxide and oxygen mix within a flowmeter. Always purge residual gases when not in use.

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
Address : 7625 West New York Street
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Representative : Brian Davidson
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Authorized Representative in Europe

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2513 BH
The Hague
Country : The Netherlands
Tel : (31) (0) 70 345-8570
Fax : (31) (0) 70 346-7299

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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Authorized Representative

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Country : The Netherlands
Tel : (31) (0) 70 345-8570

| <u>Symbols</u> | <u>Symbols</u> | <u>Definition</u> |
|--------------------|----------------|---------------------------------|
| PSI | | POUNDS PER SQUARE INCH |
| KG/CM ² | | KILOGRAMS PER SQUARE CENTIMETER |
| BAR | | KILOGRAMS PER SQUARE CENTIMETER |
| MPA | | MEGA PASCAL |
| HP | | HIGH PRESSURE PORT |
| LPM | | LITERS PER MINUTE |
| SN | | SERIAL NUMBER |



USE NO OIL



CONSULT INSTRUCTIONS FOR USE



AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY