

FLOTEC INC

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The FLOTEC carbon dioxide regulator is designed to provide a constant flow of carbon dioxide at approximately 50 PSI. In addition, the FLOTEC regulator can simultaneously deliver a measured flow through the twelve-position selector. The FLOTEC regulator is preset to deliver approximately 50 PSI through the optional DISS check valve(s) or the flow selector outlet that can be either a hose barb or a DISS fitting. Every FLOTEC regulator design has an internal safety relief valve to prevent overpressurization of the regulator. The three main connections available are the CGA 940 unibody yoke, the CGA 320 nut and nipple, and the female pipe port. FLOTEC products contain no latex or latex byproducts.

SPECIFICATIONS:

Operating Pressure: 250-3000 PSI

Outlet Pressure: Nominal 20 PSI, 30 PSI, or 50 PSI

Flow Capacity: Minimum: 20cc Maximum: 60 LPM
thru the 12 position selector

100 LPM thru optional DISS-1080
check valve(s)

Inlet Configuration: CGA 940 Yoke
CGA 320 Nut and Nipple
Female Pipe Port

Outlet Configuration: Hose Barb
DISS-1080 fitting
DISS-1080 check valve

REPLACEMENT PARTS:

Tee Handle for CGA 940

DISS-1080 Fitting

DISS-1080 Check Valve

Hose Barb

Piston/Manifold sub-assembly

Gauge w/Rubber Boot

CGA 320 Nut and Nipple

Yoke Washer for CGA 940

Flowmeter Assembly

INSTALLATION: CGA 940 Connector: Never replace factory-installed dynamic seals with plastic yoke washer seals. When connecting the CGA 940 connection do not use a tool to tighten the Tee handle. Doing so may damage the regulator. If leakage occurs between the regulator and cylinder after the Tee handle has been tightened by hand, inspect and replace the yoke washer if necessary. **WARNING:** This device is intended to be used only with **FLOTEC** installed yoke washer seals. **DO NOT** use alternate seals.

INSTALLATION: CGA 320 Connector: Mount the regulator to a CGA 320 cylinder valve. Be careful to avoid cross-threading the connection. To achieve a proper seal for threaded cylinder connections, which use a gasket, or O-Ring be sure the gasket or O-Ring is properly positioned before attaching the regulator to the valve.

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

INSTALLATION: The Flotec regulator has an internal safety valve to prevent over pressurization of the regulator. 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 push the oxygen 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 regulators 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 regulator 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, 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. Replace yoke washer if required. Close cylinder valve.

WARNING: **Never install a regulator to a post-type valve with more than one yoke washer between the valve and the regulator inlet. The use of plastic yoke washer seals on Flotec regulators is prohibited.**

WARNING:

Disassembly, assembly, and testing of regulators should be performed only by trained personnel. The work area must be free of hydrocarbon contaminants and residues.

SAFETY WARNINGS:

1. The use of FLOTEC carbon dioxide regulators for gases other than compressed carbon dioxide of up to 3000 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. Make sure that the threaded fittings on regulators or the indexing pins on yokes are properly mated for the gas intended. Never attempt to force an incompatible connection.
6. Never permit compressed carbon dioxide 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 gas from 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 carbon dioxide 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. Carbon dioxide therapy may be critical treatment. The application 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, 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. Carbon dioxide is not flammable. Carbon dioxide must never be allowed to contact oil, grease or other petroleum-based substances. Therefore, do not use oil or grease on carbon dioxide regulators, cylinders, valves or other related equipment. Do not use or store carbon dioxide 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 carbon dioxide service thread compound.
18. **DANGER: Never install a regulator to a post-type valve with more than one yoke washer between the valve and the regulator inlet. The use of plastic yoke washer seals on Flotec regulators is prohibited.**
19. Never leave pressurized carbon dioxide within a regulator. Always purge residual gases when not in use.
20. The regulator must be tight to prevent O-ring extrusion. (When using CGA 320 Nipple with O-ring).
21. The regulator must be tight to prevent leaking around the CGA 320 Nipple and those using a tip seal or face washer.
22. The regulator must NOT be twisted or turned when it is tight on the cylinder valve and/or under pressure to prevent O-ring, tip seal, or face washer abrasion.

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
Indianapolis, IN 46214-4911
Country : USA
Representative : Brian Davidson
Tel : +1 317-273-6960
Fax : +1 317-273-6979

Authorized Representative in Europe

Name : Emergo Europe
Address : Molenstraat 15
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/CM2		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