

# FLOTEC INC

Web Site: <http://www.floteco2.com>

7625 West New York Street 317-273-6960  
Indianapolis, Indiana 46214-4911

Fax 317-273-6979

e-mail: [flotec@floteco2.com](mailto:flotec@floteco2.com)

Order desk: 800-401-1723

Order desk Fax 800-515-9254

The FLOTEC DIN 477-9 oxygen regulator is designed to provide a constant flow of oxygen at approximately 20 or 50 PSIG. In addition, the FLOTEC DIN 477-9 regulator can simultaneously deliver a measured flow through the Hose Barb. The FLOTEC regulator is preset to deliver approximately 20 or 50 PSI through the optional Hose Barb. Every FLOTEC DIN 477-9 regulator has an internal safety relief valve to prevent over pressurization of the regulator. FLOTEC products contain no latex or latex byproducts.

## SPECIFICATIONS:

Operating Pressure: 250 - 3000 PSIG

Outlet Pressure: Nominal 20 PSIG or 50 PSIG

Inlet Configuration: Connector and knurled Nut  
G 3/4" BSPP/BSPF (DIN259) thread

Outlet Configuration: 1/8" NPT Female port

## REPLACEMENT PARTS:

Hose Barb with orifice

Piston/Manifold sub-assembly

Joint washer for Connector  
Sintered bronze 10 micron filter

INSTALLATION: DIN 477-9 Connector: Mount the regulator to DIN 477-9 oxygen cylinder valve. Be careful to avoid cross-threading the connection. To achieve a proper seal for threaded cylinder connections, which use the Joint washer be sure The joint washer 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 relief valve to prevent over pressurization of the regulator. Point of installation, local and state regulations may require venting of the relief valve to exterior 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 displace 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, slowly open the cylinder valve. Apply a compatible leak test solution to all outlets, fittings and regulator body connections to check for bubbles. Tighten fittings as required to eliminate all external leaks. DO NOT over tighten threaded connections. Replace connector's joint washer if required. Close cylinder valve.

## 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 because of the danger of spontaneous combustion when residues are exposed to gaseous oxygen.

## SAFETY WARNINGS:

1. The use of FLOTEC DIN 477-9 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.
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 are properly mated for the gas intended. Never attempt to force an incompatible connection.
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 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 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 regulator outlets when opening the cylinder valve in case foreign particles are present which could cause a hazardous malfunction of the regulator.
13. DIN 477-9 Oxygen therapy may be critical treatment. The use of the regulator should be regulated 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 DIN 477-9 oxygen 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 over pressurization 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 threaded-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 joint washer extrusion.
20. The regulator must NOT be twisted or turned when it is tight on cylinder valve and/or under pressure to prevent joint 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

Name : Emergo Europe  
Address : Molenstraat 15  
2513 BH The Hague  
Country : The Netherlands  
Tel : (31) (0) 70 345-8570

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## Symbols

PSI  
KG/CM<sup>2</sup>  
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