The FLOTEC nitrous oxide/oxygen mix regulator is designed to provide a constant flow of nitrous oxide/oxygen mix at approximately 50 PSI. The FLOTEC regulator is preset to deliver approximately 50 PSI through the optional DISS 2020 check valve(s), a hose barb or a DISS 2020 fitting. Every FLOTEC regulator design has an internal safety relief valve to prevent overpressurization of the regulator. FLOTEC products contain no latex or latex byproducts.

**SPECIFICATIONS:**

- **Operating Pressure:** 250-3000 PSI
- **Outlet Pressure:** Nominal 50 PSI
- **Inlet Configuration:**
  - CGA 965 Yoke
  - CGA 280 Nut & Nipple
- **Outlet Configuration:**
  - Hose Barb
  - DISS 2020 Fitting
  - DISS 2020 Check Valve

**REPLACEMENT PARTS:**

- Tee Handle for CGA 965
- Knob & Label
- DISS 2020 Fitting or Hose Barb
- DISS 2020 Check Valve
- Piston/Manifold Sub-Assembly
- Hose Barb
- CGA 280 Nut & Nipple
- Gauge w/Rubber Boot
- Washer for CGA 965

**INSTALLATION: CGA 965 Connector:**

When connecting the CGA 965 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.

**INSTALLATION: CGA 280 Connector:** Mount the regulator to a CGA 280 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 gaskets 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 REGULATOR:**

The Flotec regulator has an internal safety valve to prevent overpressurization of the regulator. Point of installation, local and state regulations may require venting of the relief valve to outside of the use/storage area.

**WARNING:** Never install a regulator to a post-type valve with more than one yoke washer between the valve and regulator inlet. Before attaching the regulator to the post valve, verify that the valve is not already equipped with a yoke washer. Never add another yoke washer to the regulator inlet while a yoke washer is in place. Leakage between two yoke washers may result in spontaneous combustion. 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 nitrous oxide/oxygen mix.

**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. Tighten fittings as required to eliminate all external leaks. DO NOT overtighten threaded connections. Replace yoke washer if required. Close cylinder valve.
SAFETY WARNINGS:

1. The use of FLOTEC nitrous oxide/oxygen mix regulators for gases other that of design is expressly prohibited by FLOTEC and the user must assume all liabilities.
2. Storage areas should be dry, cool and well ventilated. Where practical, storage areas should be fireproof. Storage in sub-surface locations should be avoided. Storage conditions should comply with local and state regulations.
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 medical gases 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 nitrous oxide/oxygen 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 regulator outlet when opening the cylinder valve in case foreign particles are present which could cause a hazardous malfunction of the regulator.
13. Nitrous oxide/oxygen mix 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. Nitrous oxide/oxygen mix is not flammable. However, the presence of nitrous oxide/oxygen mix will drastically increase the rate and severity of combustion. Oil and/or grease in the presence of nitrous oxide/oxygen mix become highly combustible. Nitrous oxide/oxygen mix must never be allowed to contact oil, grease or other petroleum-based substances. Therefore, do not use oil or grease on nitrous oxide/oxygen mix regulators, cylinders, valves or other related equipment. Do not use or store nitrous oxide/oxygen mix 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 nitrous oxide/oxygen mix 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.
20. The regulator must be tight to prevent O-ring extrusion. (When using CGA 280 Nipple with O-ring).
21. The regulator must be tight to prevent leaking around the CGA 280 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.
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
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Tel: (31) (0) 70 345-8570
Fax: (31) (0) 70 346-7299

Notified Body
Name: UL International (UK) Ltd
Address: Wonersh House, The Guildway
          Old Portsmouth Road
Country: UK- Guildford, Surrey, GU13 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 09-11-14
Signature:
Name: Brian Davidson
[Name and Signature of authorized person within organization]
Notified Body
Name : UL International (UK) Ltd
Address : Wonersh House, The Guildway
          Old Portsmouth Road
Country : UK- Guildford, Surrey, GU13 1LR
I.D. Number : CE 0843

Symbols

<table>
<thead>
<tr>
<th>Symbols</th>
<th>Definition</th>
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<tbody>
<tr>
<td>PSI</td>
<td>POUNDS PER SQUARE INCH</td>
</tr>
<tr>
<td>KG/CM2</td>
<td>KILOGRAMS PER SQUARE CENTIMETER</td>
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<tr>
<td>BAR</td>
<td>KILOGRAMS PER SQUARE CENTIMETER</td>
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<td>MEGA PASCAL</td>
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<td>HIGH PRESSURE PORT</td>
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<td>LITERS PER MINUTE</td>
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USE NO OIL

- CONSULT INSTRUCTIONS FOR USE

- AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY