

## WARRANTY:

The O-Two Therapy Flow Controllers for Use with Medical Gases are manufactured from the finest quality materials. Each individual part is subject to strict quality control tests to ensure exceptionally high standards. The manufacturer warrants to the purchaser of the O-Two Flow Controller that its component parts are free from defects in material and workmanship for a period of five (5) years from the date of purchase. The manufacturer will replace and/or repair all parts of the Flow Controller at its option for five years from the date of purchase at no cost to the purchaser, upon the notification of the defects, in writing by the purchaser and confirmation of said defect by the manufacturer. All shipping costs shall be borne by the purchaser. The manufacturer shall be liable under this warranty only if the Flow Controller and its parts have been used and serviced in the normal manner described in the instruction manual. This warranty does not cover failure resulting from alterations, accidental damage, misuse or operation not in accordance with the instructions provided. Wear items are not covered hereunder. This warranty is null and void if unauthorized repairs are attempted or performed. There are no other expressed or implied warranties. This warranty gives no specific legal rights.

## SPECIFICATIONS:

<a href="#">GAS</a>	Medical Oxygen, Medical Air
<a href="#">OPERATING INLET PRESSURE</a>	50 to 55 PSI
<a href="#">THERAPY FLOWRATE RANGE</a>	0 - 6 l/min, 0 - 8 l/min, 0 - 15 l/min, 0 - 25 l/min
<a href="#">STORAGE TEMPERATURE</a>	From -28°C to +60°C
<a href="#">OPERATING TEMPERATURE</a>	From -18°C to +50°C

# FLOW CONTROLLERS FOR USE WITH MEDICAL GASES



### INTENDED USE:

The O-Two Medical Technologies "Therapy Flow Controller" is intended for the delivery of adjustable therapy flow rates (medical oxygen or medical air) to a patient.

### DESCRIPTION:

The O-Two "Therapy Flow Controller" is a therapy flow administration device which is capable of delivering a controllable continuous flow of medical gas (oxygen or air) within the specified range.

Connected to medical gas supply system, O-Two "Therapy Flow Controller" can deliver the desired therapy flow by adjusting flow-selecting control.

## SAFETY WARNINGS

1. It is imperative that the O-Two Therapy Flow Controller only be operated in accordance with the instructions as described in this manual by clinically trained and authorized personnel. Do not use the Flow Controller for driving any medical equipment.
2. Using oil, grease or other petroleum-based substances with oxygen and oxygen mixtures may cause fire or explosion. Never handle Flow Controllers with oily or greasy hands or gloves. Do not use or store oxygen equipment near excessive heat or open flame.
3. Make sure that the inlet fittings on flow controllers are properly mated for the gas intended. Never attempt to force an incompatible connection or change the connectors. Never interchange flow controllers, hoses, or other equipment with similar equipment intended for use with other gases.
4. Disconnect the flow controller from a pressure source and release all gas from the flow controller after each use.
5. Do not stand in front of a flow controller outlet when opening the pressure source in case foreign particles are present which could cause a hazardous malfunction of the flow controller. Never occlude the outlet to test for the presence of pressure.
6. The flow controller doesn't indicate that a flow is occurring.
7. Setting the flow-selecting knob between adjacent settings may cause the output flow to cease!
8. Varying inlet pressure outside the specified operating inlet pressure has significant impact on the accuracy of output therapy flow rate!
9. Presence of outlet resistance may result in decrease of the flow rates delivered.
10. Ambient temperature variations within the specified operating temperature range have no effect on the accuracy of flow rate.
11. Oxygen therapy may be critical treatment. The application of oxygen therapy using this flow controller should be made in strict accordance with the prescription and instructions of a physician.
12. Never disassemble a flow controller under pressure! Disassembly and assembly of flow controllers shall be performed only by O-Two authorized and trained personnel. Unauthorized disassembly will void the warranty. Lubricant, if used in the maintenance of the flow controller, shall be compatible with the intended medical gases. Use of lubricants not recommended by the manufacturer may cause fire or explosion.

## OPERATING INSTRUCTIONS:

### A. PRE-USE CHECK:

1. Visually inspect the flow controller for any signs of grease or oil. Do not use the device if grease or oil is suspected or found.
2. Visually inspect the intended gas symbol which is marked on the flow controller label. It shall match the contents of the pressure source to be used.
3. Visually inspect the inlet and outlet connectors of the flow controller for damage and to ensure compatibility with the pressure source.
4. Connect the flow controller to a pressure source and turn the flow knob to "OFF" position.
5. If required, slowly and gradually turn on the pressure source.
6. Confirm that the contents of the pressure source are sufficient for the intended use.
7. Apply a compatible leak test solution to fittings and threads of the inlet and outlet of the flow controller to check for leakage.
8. If leakage occurs between the flow controller and the pressure source, close the pressure source and tighten fittings as required to eliminate all external leaks. DO NOT over tighten threaded connections. Never tighten fittings when under pressure.

### B. OPERATION:

1. Ensure that the Flow Controller knob is in the "OFF" position.
2. Connect the flow controller to a pressure source and tighten the connection if applicable.
3. Connect the flow controller to a patient through therapy tubing and mask.
4. If required, gradually open the pressure source.
5. Rotate the flow-selecting knob anti-clockwise to the required flow setting.

## ⚠ WARNING ⚠

Setting the flow-selecting knob between adjacent settings may cause the output flow to cease!

6. When medical gas is no longer required, turn off the gas cylinder or disconnect the flow controller from hospital pipeline system and vent any trapped pressure inside the flow controller.
7. Turn the flow-selecting clockwise back to the "OFF" position and then remove the flow controller from the pressure source.
8. Store the flow controller in a clean and dry place.

### C. PREVENTATIVE MAINTENANCE:

The flow controller can be cleaned with a clean, soft and damp cloth after each use.

The user shall also test the flow controller (therapy flow and leak) periodically to ensure proper performance and safety. The frequency of such testing should be established according to usage, but it is recommended that it be performed at least every 6 months.

O-Two Medical recommends that the flow controller be returned to the manufacturer or its authorized agents for evaluation for damage, contamination, wear and function every 5 years. The maximum service life for the flow controller is 15 years providing the above maintenance recommendations are followed.

## THERAPY FLOW CONTROLLER FOR USE WITH MEDICAL GASES:

