



Precision Medical



OXYGEN SELECT FLOWMETER MODEL: 3MFA1001

R_x ONLY



RECEIVING / INSPECTION

Remove the Precision Medical, Inc. *Flowmeter* from the packaging and inspect for damage. If there is any damage, DO NOT USE and contact your Provider.

INTENDED USE

The *Flowmeter* is intended for use by physicians, respiratory therapists and other authorized hospital personnel to administer selected doses of medical oxygen to a patient.

READ ALL INSTRUCTIONS BEFORE USING

This manual instructs a Professional to install and operate the *Flowmeter*. This is provided for your safety and to prevent damage to the *Flowmeter*. If you do not understand this manual, DO NOT USE the *Flowmeter* and contact your Provider.

SAFETY INFORMATION - WARNINGS AND CAUTIONS

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

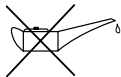
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.





CONSULT ACCOMPANYING DOCUMENTS



Symbol for "USE NO OIL"

WARNING

- **ALWAYS** confirm prescribed flow before administering to patient and monitor flow on a frequent basis.
- This Flowmeter contains magnetic, ferrous material that may affect the results of an MRI.
- **ALWAYS** rotate and lock connector body into place before using the Flowmeter. After activating Flowmeter, be sure patient is receiving flow from proper outlet port.
- FLOW IS ONLY DELIVERED to the selected port indicated by the “ON” arrow .
- NO FLOW is delivered to the ports indicated by the “OFF” arrows .

To Reduce the Risk of Fire or Explosion:

- **ALWAYS** follow ANSI and CGA standards for Medical Gas Products and Flowmeters (E-7) and Oxygen Handling (G-4).
- **DO NOT** use oils, greases, organic lubricants or any combustible materials on or near this Flowmeter.
- **DO NOT** use near any type of flame or flammable/explosive substances, vapors or atmosphere.
- **DO NOT** smoke in an area where oxygen is being administered.

CAUTION

- This Flowmeter must be operated with the Flow Tube in a vertical, upright position.
- Only personnel instructed and trained in its use should operate this Flowmeter.
- Be sure all connections are tight and leak free.
- Only use oxygen-safe leak detector to test for leaks.
- **DO NOT** autoclave.
- **DO NOT** gas sterilize with EtO (Ethylene Oxide)
- **DO NOT** clean with aromatic hydrocarbons.
- **DO NOT** immerse Flowmeter in any kind of liquid.
This will void the warranty.
- Store Flowmeter in a clean area when not in use.
- Only qualified personnel should repair this Flowmeter.

(Continued on Inside)

SPECIFICATIONS

| | |
|---|--|
| Model | 3MFA1001 |
| Flow Range | 0-15 l/min |
| Gas | Oxygen |
| Increments | .5 l/min from .5 to 5 l/min 1 l/min from 5 to 15 l/min |
| Accuracy | \pm .25 l/min from .5 to 5 l/min \pm .5 l/min from 6 to 15 l/min |
| Max Flush Flow Range | 60 - 80 l/min @ 50 psi (3.4 bar) <small>FOR INTERNATIONAL UNITS SEE PRODUCT LABEL</small> |
| Transport / Storage Requirements | -40°F (-40°C) to 140°F (60°C) |

NOTE: Storage / Transport outside the specified range may cause damage to the flowmeter.

The effect on accuracy of flow due to variations in ambient temperature is standard accuracy +7.3% @ 32°F (0°C) and -3.0% @ 104°F (40°C).

Flowmeters calibrated at 50 psi (3.4 bar), 70°F (21°C), standard atmospheric pressure.

International flowmeters are calibrated per specifications marked on Flow Tube.

Specifications are subject to change without prior notice.

OPERATING INSTRUCTIONS



WARNING

Read this User Manual before installing or operating the Flowmeter.



CAUTION

Inspect the Flowmeter for visual damage before use, DO NOT USE if damaged.

NOTE: Precision Medical, Inc. strongly recommends the use of a kink proof Cannula.

1. Turn Knob to the “OFF” position.
2. Connect the Flowmeter to a 50 psi (3.4 bar) oxygen gas source.
For international Flowmeters, connect to appropriate oxygen source pressure.
3. Verify that the Float Ball is at the very bottom of the Flow Tube.
NOTE: If the Float is not resting at the bottom of the Flow Tube, the Flowmeter is leaking; consult the “TROUBLESHOOTING”.
4. Adjust Flow:
To **increase** - Turn Knob **counterclockwise**
To **decrease** - Turn Knob **clockwise**
5. Set flow by aligning center of Float Ball with indicator lines on the Flow Tube.
6. Adjusting flow beyond the last calibrated indicator line will result in an undetermined flow.
7. To obtain maximum flush flow, turn Knob fully Counterclockwise.
NOTE: Flush flow is any flow above the last calibrated line on the Flow Tube with an unrestricted flow, as per Specifications.
8. Connect up to three (3) medical devices to the outlet ports.
9. Push the Locking Button UP and rotate Connector Body to align the “ON” indicating  arrow with the desired outlet port. “OFF” indicating arrows  should align with the other two (2) ports not in use.

WARNING

- **ALWAYS** rotate and lock connector body into place before using the Flowmeter. After activating flowmeter, be sure patient is receiving flow from proper outlet port.
- FLOW IS ONLY DELIVERED to the selected port indicated by the “ON” arrow .
- NO FLOW is delivered to the ports indicated by the “OFF” arrows .

To avoid injury to patient:

- ALWAYS confirm prescribed flow before administering to patient and monitor flow on a frequent basis.

CAUTION

- **DO NOT** over tighten Knob when turning off. This will cause damage to the Flowmeter.
- Pressures other than those indicated on the Flow Tube may affect the accuracy of the indicated flow.
- Gas Temperatures other than 70°F (21°C) may affect the accuracy of the indicated flow.
- Attaching accessories to the outlet (which may increase resistance to outlet flow) may change indicated flow but will not affect the accuracy of the flow.
- **ONLY** use oxygen indexed fittings to connect Flowmeter to oxygen source.

CLEANING INSTRUCTIONS

1. Disconnect all connections before cleaning.
2. Clean exterior surfaces of the Flowmeter with a cloth dampened with a mild detergent and water.
3. Wipe dry with a clean cloth.

TROUBLESHOOTING

If the Flowmeter fails to function, consult your Provider or Precision Medical, Inc.

| Problem | Probable Cause | Remedy |
|-----------------------------------|--|--|
| Will not shut off | <ul style="list-style-type: none">• Leak• Defective Valve | <ul style="list-style-type: none">• Replace Tetraseal and/or Housing• Replace Body Assembly |
| Sticking Float Ball | <ul style="list-style-type: none">• Debris in Flow Tube | <ul style="list-style-type: none">• Clean Flow Tube |
| Unable to set desired flow | <ul style="list-style-type: none">• Blocked Inlet | <ul style="list-style-type: none">• Replace Body Assembly |
| Knob will not turn | <ul style="list-style-type: none">• Valve seized | <ul style="list-style-type: none">• Replace Body Assembly |
| No flow at outlet | <ul style="list-style-type: none">• Outlet port in "OFF" position | <ul style="list-style-type: none">• Align Outlet port with "ON" arrow• Turn Knob counterclockwise |

RETURNS

Returned products require a Returned Goods Authorization (RGA) number. Any product returned to Precision Medical, Inc. must be packaged in a sealed container to prevent damage. Precision Medical, Inc. will not be responsible for goods damaged in transit. Refer to Precision Medical, Inc. Return Policy on our website.



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ISO 13485 Certified

**For Declaration of Conformity and Replacement Parts,
refer to the Oxygen Select Flowmeter product page on our website.**



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LIMITED WARRANTY AND LIMITATION OF LIABILITY

Precision Medical, Inc. warrants that the Medical Gas Flowmeter (the Product) will be free of defects in workmanship and/or material for the following period:

- | | | |
|-----|---|------------------------------|
| (a) | Flow Tube and Housing | Lifetime of the product |
| (b) | Needle Valve | Five (5) years from shipment |
| (c) | All other parts of the Medical Gas Flowmeter not identified in (a) or (b) above | One (1) year from shipment |

Should any failure to conform to this warranty appear within the applicable period, Precision Medical, Inc. shall, upon written notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with Precision Medical, Inc.'s instructions and standard industry practice, and that no modifications, substitutions, or alterations have been made to the goods, correct such defect by suitable repair or replacement at its own expense.

ORAL STATEMENTS DO NOT CONSTITUTE WARRANTIES.

The representative of Precision Medical, Inc. or any retailers are not authorized to make oral warranties about the merchandise described in this contract, and any such statements shall not be relied upon and are not part of the contract for sale. Thus, this writing is a final, complete and exclusive statement of the terms of that contract.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, WHETHER EXPRESS OR IMPLIED.

Precision Medical, Inc. shall not under any circumstances be liable for special, incidental or consequential damages including but not limited to lost profits, lost sales, or injury to person or property. Correction of non-conformities as provided above shall constitute fulfillment of all liabilities of Precision Medical, Inc. whether based on contract, negligence, strict tort or otherwise. Precision Medical, Inc. reserves the right to discontinue manufacture of any product or change product materials, designs, or specifications without notice.

Precision Medical, Inc. reserves the right to correct clerical or typographical errors without penalty.