

Cleaning Instructions

Use a clean damp cloth with a mild cleaning solution to wipe outside of product. DO NOT gas sterilize with ETO. DO NOT clean with pungent hydrocarbons.

CAUTION: DO NOT submerge Dial Flowmeter in any form of liquid. This will cause damage and void any warranty on the product.

Troubleshooting

Contact your dealer or the technical support department at Amvex Corporation for assistance if the Dial Flowmeter does not function.

Maintenance Prevention

Inspect the product before and after use for any damage and ease of operation.

WARNING: When changing connectors on the Dial Flowmeter for service or replacement, never re-attach connectors of a different gas. Doing so may result in patient injury or damage to the equipment.

NOTE: Disconnect Dial Flowmeter from gas supply before servicing.

WARRANTY

Amvex Corporation warrants its Medical Secondary Equipment to be free from defects in material and workmanship for a period of Five (5) years from the date of shipment. Within the first Twelve (12) months from date of shipment Amvex will repair or replace any part which is proven to be defective at Amvex's cost. After the first Twelve (12) months, Amvex will send the parts to the customer free of charge, but the shipping and installation will be borne by the Customer.

This warranty is valid only when the product has been properly installed according to Amvex specifications, used in a normal manner and serviced according to factory recommendations. It does not cover failures due to damage which occurs in shipments or failures which resulted from accidents, misuse, abuse, neglect, mishandling, alteration, misapplication or damage that may be attributable to acts of God.

AMVEX CORPORATION DOES NOT HONOR VERBAL STATEMENTS CONCERNING THE WARRANTY.

The distributor and/or dealer is not sanctioned to create verbal warranties about the product described in this agreement. Any statements will not be honored or be made part of the agreement of sale. This document is the final, complete and exclusive terms of the agreement.

THIS WARRANTY IS INCLUSIVE AND REPLACES ALL OTHER WARRANTIES.

Amvex Corporation shall not, under any circumstances, be liable for incidental or consequential damages including, but not limited to, profit loss, loss of sales or injuries to person(s) or property. Correction of non-compliances as noted above will result in completion of all liabilities of Amvex Corporation whether based on agreement, neglect or otherwise.

Amvex Corporation reserves the right to stop manufacturing any product or change materials, designs or specifications without notice.

All claims for warranty must first be approved by Amvex's Service Department: (support@amvex.com or 905-764-7736 Toll Free: 1-866-462-6839). A valid Return Goods Authorization (RGA) number must be obtained from Amvex prior to commencement of any warranty claim.

Authorized Representative
in the European Union:

Oxygen Care Ltd.
2 Holfeld Business Park
Kilmacanogue Co Wicklow
Ireland

EC REP

OPERATING AND MAINTENANCE MANUAL

DIAL FLOWMETER



Dial Flowmeter Type:	
Liters per minute (LPM)	
25 LPM:	25
15 LPM:	15
8 LPM:	08
4 LPM:	04

FM - XX YY - XX

Color Code:	
USA:	U
ISO:	I

Gas:	
Oxygen:	O
Med Air:	A

Inlet Connection:

Ohmeda:	OH
Chemtron:	CH
1/8" FNPT:	F2
1/4" FNPT:	F4
1/8" MNPT:	M2
1/4" MNPT:	M4
DISS Male:	DM
DISS Handtight:	DH
DISS Hex Nut:	DN
Puritan:	PB
Schrader:	SH
Oxequip:	XQ
Medstar:	MS
British Male:	BM
French Male:	FM
German Male:	GM
Australian Male:	AM
Japanese Male:	JM
AGA Male:	AG

CAUTION: Federal (USA) law restricts this device to sell by or on the order of a physician.

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IMPORTANT: SAFETY INSTRUCTIONS

This manual is to provide you with information on the Dial Flowmeter and to ensure the proper use and safety for this product.

READ AND UNDERSTAND ALL THE SAFETY AND OPERATING INSTRUCTIONS CONTAINED IN THIS BOOKLET BEFORE USING THIS PRODUCT.

IF YOU DO NOT UNDERSTAND THESE INSTRUCTIONS, OR HAVE ANY QUESTIONS, CONTACT YOUR SUPERVISOR, DEALER OR THE MANUFACTURER BEFORE ATTEMPTING TO USE THE APPARATUS.

- ▲WARNING:** Indicates a potentially hazardous situation, if not avoided, could result in death or serious injury.
- ATTENTION:** Indicates a potentially hazardous situation, if not avoided, could result in minor or moderate injury.
- CAUTION:** Indicates a potentially hazardous situation, which, if not avoided could result in property damage.

Receiving Inspection

Remove product from package and inspect for damage. Verify that the model received is in working order. If product is damaged, or incorrect do not use. Contact your dealer, equipment provider or manufacturer.

- ATTENTION:** It is very important to allow product to remain in original packaging for 24 hours to acclimatize to room temperature before use.
- ATTENTION:** Store the product in a sealed package to avoid environmental damage. The operating and storage temperature for the Dial Flowmeter should reflect typical environmental conditions of a medical facility environment.

User Responsibility

- ▲WARNING:** Service of this device should only be performed by properly trained individuals.

This product performs as explained in this manual. This holds true as long as the assembly, use, repair and maintenance are properly followed according to our instructions. Periodic review of this device is recommended. If any damage or defects are present, the product should not be used. This includes parts that may have been altered, contaminated, worn or missing. If any of the above are noted, immediate repair / replacement is required. In compliance with the Amvex Warranty, repair of this device is not to be performed by anyone other than an Amvex trained professional and done in strict accordance to the written instructions provided by Amvex. If this device is subject to improper maintenance, repair, use and or abuse leading to malfunction of the device, replacement is the sole responsibility of the user.

- ▲WARNING:** Operation of this device is not to be done if flammable anesthetics are present due to the possibility of explosion caused by static charge.

TO ELIMINATE THE RISK OF EXPLOSION OR FIRE:

- Never attempt to attach a Dial Flowmeter directly to a cylinder.
- Never use grease, oil, organic lubricants or flammable materials on or near the Dial Flowmeter.
- Never smoke in an area where oxygen is being used.
- Never use any type of flame or flammable or explosive material near the Dial Flowmeter.
- Always follow CGA and ANSI standards for Dial Flowmeters and Medical Gas Products (E-7) and Oxygen Handling (G-4).

ATTENTION: Keep the Dial Flowmeter in a clean area when not being used.

ATTENTION: Ensure that all connections are tightened and free of leaks prior to use. Only use an oxygen-safe leak detector when testing for leaks.

Intended Use

The Dial Flowmeter is used to dispense a certain flow of the gas specified on the label accurately under the direction of a health care professional.

This manual and all other labels and inserts are strictly for the ease of operators that have proper tools and knowledge in the repair of this device, and properly trained Amvex representatives. DO NOT change, alter or modify intended use of the product.

Specifications

Storage Temperature: -40 °F (-40 °C) to 140 °F (60 °C)

Gas	Scale	Increments	Accuracy Averages
Oxygen/Air	0-4 LPM	.03, .06, .12, .25, .5, .75, 1, 1.5, 2, 3, 4	+/- 20% from 0-1 LPM +/- 10% above 1 LPM
Oxygen/Air	0-8 LPM	.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8	+/- 0.25 LPM from 0-1 LPM, +/- 10% of reading from 1.5 LPM and above
Oxygen/Air	0-15 LPM	.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15	+/- 0.25 LPM from 0-1 LPM, +/- 10% of reading from 1.5 LPM and above
Oxygen/Air	0-25 LPM	.5, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25	+/- 0.25 LPM from 0-1 LPM, +/- 10% of reading from 1.5 LPM and above

Dial Flowmeters calibrated at the pressure indicated on the Flowmeter, 70 °F (21 °C), standard atmospheric pressure. Specifications are subject to change without prior notice.

- ▲MRI WARNING:** This product contains magnetic, ferrous material that may affect the result of an MRI, unless Dial flowmeter is ordered as MRI conditional.

Operating Instructions

1. Turn Dial Flowmeter off by turning knob fully counter clockwise, until window shows "0".
2. Inspect the Dial Flowmeter for damage. If any is found, do not use the Dial Flowmeter.
3. Connect the Dial Flowmeter to the supply pressure specified on the Dial Flowmeter.

▲WARNING: The accuracy may be affected if the temperature of the gas is different than 70° F (21° C) and the supply pressure is different than that indicated on the Dial Flowmeter.

▲WARNING: Connection to the gas source must be done by using only the appropriately indexed fitting.

4. Adjusting the Flow: To Decrease Flow: Turn the knob counter clockwise
To Increase Flow: Turn the knob clockwise

▲WARNING: Flow is only available at the listed increments. There is no flow between increments.

▲WARNING: To avoid injury ALWAYS confirm flow requirement for patient prior to dispensing.

5. Turn knob completely counter clockwise to achieve maximum Flood/ Flush flow. (Flood/Flush Setting not available on all models)