

Medical Gas Regulators



Flowgauge Regulator



Flowmeter Regulator



Preset Regulator

DESCRIPTION AND APPLICATION

Ohio Medical® Gas Regulators reduce high pressure gases from a cylinder to pressures suitable for the operation of therapeutic medical equipment.

Ohio Medical offers three models of Gas Regulators including a Flowgauge, Flowmeter, and a Preset model. All three models are constructed of brass and finished in chrome.* Each model is equipped with a quality engineered cylinder contents gauge to provide long lasting performance and a twist-on impact resistant lens cover for added protection.

All regulators are equipped with sintered metal inlet filters that absorb heat and protect the regulator from foreign particles for extended reliability and safety. Each regulator also contains an encapsulated seat assembly for long life and ease of maintenance, plus a safety relief valve to protect against over-pressurization. The flowmeter and flowgauge models include a plastic tubing nipple. All Ohio Medical Gas Regulators have a five-year warranty on parts and labor.

Inlet Fitting Options

Oxygen

- Yoke-CGA 870
- Hand-Tight-CGA 540-H
- Nut & Gland-CGA 540

Air

- Yoke-CGA 950
- Hand-Tight-CGA 346-H

All fitting connections are indexed per Compressed Gas Association Standard V-1 to eliminate gas cross-connection.

FEATURES AND BENEFITS

Flowgauge (Bourdon) Regulator

- Gas color coded, easy to read gauge
- Available in ranges of 2 - 15 L/min O₂, 0.1 - 1 L/min O₂ for Pediatric or COPD use and 2 - 8 L/min Air
- Large, easy-to-grasp knob
- Ideal for transport

Flowmeter Regulator (Thorpe Style)

- Quality Ohio Medical Pressure Compensated Flowmeter
- Accurate flow range of 1-15 L/min for O₂ and air
- Expanded 1-5 L/min scale for low flow applications

Preset Regulator

- Lightweight & compact
- Uniform preset 50 psi output pressure for O₂ and air
- DISS outlet with demand check

* All metal parts that channel the gas stream are brass. There are no aluminum parts in the high or low pressure gas stream.

TECHNICAL SPECIFICATIONS

Inlet Pressure

3000 psig, maximum

Outlet Pressure

Flowgauge models: 50 psig \pm 2

Preset models: 50 psig \pm 2

Outlet Pressure Rise

(Average outlet pressure increase for every 1000 psi decrease in cylinder pressure):

Pre-Set Regulator 4.2 psi

Flowmeter Regulator 2.1 psi

Set Point Drift

(average increase in flow for every 1000 psi decrease in cylinder pressure):

Flowgauge Regulators

Range (L/min)	Drift (L./min)
0.1-1	.015
2-8	.19
2-15	.36

Flowgauge Accuracy

Flowgauge (2-15 L/min): \pm 0.5 L/min or 10%

Flowgauge (2-8 L/min): \pm 0.25 L/min or 10%

Flowgauge (0.1-1 L/min): 0.1 to 0.5: \pm 0.03

0.6 to 0.7: \pm 0.06

0.8 to 1.0: \pm 0.08

Flowmeter Accuracy

\pm 1/5 L/min or \pm 10% of reading, whichever is greatest.

Materials:

Brass body; all metal parts that channel the gas stream are brass (no aluminum).

Sintered metal filter between gas source and seat.

Weight:

Approximately 2.8 lb (1.3 Kg)
depending on model

Dimensions:

Approximately 8.5" x 4.4" x 5.5"
(21.6 x 11.2 x 14 cm)

PURCHASING SPECIFICATIONS

Medical Gas Regulators are equipped with a 2 inch, color-coded cylinder contents gauge, a pressure relief valve and a DISS outlet fitting. The body of the regulator is brass and contains a sintered metal inlet filter and an encapsulated seat assembly module for long life and ease of maintenance. All metal parts that channel the gas stream are brass. There are no aluminum parts in the high or low pressure gas stream. All regulators are chrome plated for durability and ease of cleaning.

Flowgauge and Flowmeter models are equipped with an O₂ DISS and a color-coded plastic tubing nipple.

Medical Gas Regulators are available for oxygen and air in a choice of inlet fittings for E, G, H, or M cylinders.

SHIPPING INFORMATION

Shipping weight: 1.36 Kg (3 lbs)

Package Size: 22.3 x 21.6 x 13.5 cm (8.8": x 8.5" x 5.3")

Packaging: One per carton

Parts Configuration

6700-XXXX-900

Flowgauge Regulators Gas, Range & Inlet Fitting		Outlet	Flowmeter Regulators Threaded Connection Gas, Range & Inlet Fitting	
O ₂ , 2-15 L/min, Yoke-CGA 870	1243	O ₂ , DISS	O ₂ , 1-15 LPM, Yoke-CGA 870	1241
O ₂ , 2-15 L/min, Hand-Tight-CGA 540	1242	O ₂ , DISS	O ₂ , 1-15 LPM, Hand-Tight-CGA 540	1240
O ₂ , 2-15 L/min, Nut & Gland-CGA 540	1320	O ₂ , DISS	O ₂ , 1-15 LPM, Nut & Gland-CGA 540	1321
O ₂ , 0.1-1 LPM, Yoke-CGA-870	0118	O ₂ , DISS	Air, 1-15 LPM, Hand-Tight-CGA 346	1300
Air, 2-8 LPM, Hand-Tight-CGA 346	1301	O ₂ , DISS		
Preset Regulators			DISS Connection (Regulator has DISS male check; Flowmeter has DISS female Hand-I-Twist)	
O ₂ , 50 psi, Yoke-CGA 870	1245	O ₂ , DISS Check	O ₂ , 1-15 LPM, Yoke-CGA 870	1327
O ₂ , 50 psi Hand-Tight-CGA 540	1244	O ₂ , DISS Check	O ₂ , 1-15 LPM, Hand-Tight-CGA 540	1329
O ₂ , 50 psi, Nut & Gland-CGA 540	1322	O ₂ , DISS Check	O ₂ , 1-15 LPM, Nut & Gland-CGA 540	1328
Air, 50 psi, Hand-Tight-CGA 346	1302	O ₂ , DISS Check		
Air, 50 psi, Yoke-CGA 950	1303	O ₂ , DISS Check		

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