

Airgas® FM244 Series

Two-Stage

FLOWMETER REGULATORS

Description: This Airgas® FM244 series of high-purity, two-stage flowmeter regulators are recommended for non-corrosive analytical and process applications.

This regulator is part of our analytical series, machined from brass bar stock which affords minimum internal volume and eliminates large cavities and pockets associated with forged-body regulators. The flowmeter has a 65mm direct reading scale based on air etched into the tube. Accuracy is $\pm 5\%$ full scale with $\pm 0.25\%$ repeatability. You must specify flow rate and gas service at time of ordering.

Design Features

Filtered Seat

for added gas stream purity and extended service life.

Convuluted Stainless Steel Diaphragms

eliminate outgassing associated with elastomeric diaphragms.

Bar Stock Body

affords low internal volume.

Encapsulated Filter Seat Assy

protect valve seat, extend service life.

Nickel-Plated Brass Body

provides enhanced overall aesthetics, will not tarnish.

Superior Leak Integrity

provides superior leak integrity without contamination from non-metallic liner or seal.

Direct Reading Scale

allows the operator to read the flow directly on the tube.

Safety Relief Valve

protects flowmeter and any equipment down stream.



Regulator Materials

Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PTFE
Diaphragm	316 Stainless Steel
Gauges	2 1/2" Nickel-Plated Brass
Filter	316 Stainless Steel and Bronze
Valve Stem	316 Stainless Steel
Valve Spring	316 Stainless Steel
Outlet Valve	Nickel-Plated Brass
Trim	Nickel-Plated Brass

Flowmeter Materials

Frame	Brass
Available Float Material	Glass Stainless Steel Carbonyl

Specifications for Regulator

Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0-25, 0-50, 0-100 psig
Flow Ranges	0.28, 2.2, 6.0, 20 & 150 scfh of air
Ambient Operating Temperature	-40° F to +165° F
Designed Leak Rate	Bubble-Tight (helium)
Weight	5 lbs.
Ports (4)	1/4" FNPT regulator; 1/8" FNPT flowmeter
Inlet	CGA Connection
Outlet	1/4" MNPT Instrument Valve
Decay Inlet Characteristic	0.26/100 psi

Ordering Information

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	Capacity (scfh @ Max Del. Pressure)	Relief Valve Setting (psig)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)
Y12-FM244A(CGA)	Brass	3,500	25	*	85	0-4,000	30" Hg-0-30
Y12-FM244B(CGA)	Brass	3,500	50	*	150	0-4,000	0-60
Y12-FM244D(CGA)	Brass	3,500	100	*	150	0-4,000	0-200

*Determined by flowmeter—must be specified at time of ordering. See 65 mm Flowmeter section to specify the required flow rate.

Available Options

Product Number	Description
Y15-QMB1	Quick Mounting Option for 1 Cylinder
Y15-QMB2	Quick Mounting Option for 2 Cylinders

Equipment