

Single-Stage Brass Regulators

Description: This analytical series of high-purity brass single-stage regulators is recommended for non-corrosive analytical and process applications where precise pressure control is not required. The check valve cylinder connection prevents air and contaminants from entering the gas stream during cylinder change out. This creates consistencies in processes and extends column life in GC applications.

Machined from brass bar stock, this regulator body has minimal internal volume - there are no large cavities and pockets associated with forged-body regulators.

The needle valve is built into the regulator body reducing the gas path. These models feature encapsulated filter assemblies to protect the valve seat from contamination, extending regulator service life while also reducing velocity of gas when opening high-pressure cylinder valves. An automatic reseating relief valve protects regulator components from over pressurization. Nickel-plating makes the appearance last through many years of service.

Analytical

PRESSURE REGULATORS



Design Features

Check Valve Cylinder Connections

Prevents air and contaminants from entering process stream during cylinder change out

Stainless Steel Diaphragms

eliminates outgassing associated with elastometric diaphragms.

Bar Stock Body

for low internal volume.

Encapsulated Filter Seat Assy

for added gas stream purity and extended service life.

Nickel-Plated Brass Body

provides long-lasting good looks; will not tarnish.

Mounting

front panel mount bonnet and (2) 10-32 taps for rear mounting.

Specifications	
Maximum Rated Inlet Pressure	3,500 psig
Outlet Pressure Ranges	0-25, 0-50, 0-100, 0-250 psig
Flow Capacity	Cv=0.13
Ambient Operating Temperature	-40° F to +165°F
Designed Leak Rate	Bubble-Tight (helium)
Weight	3 lbs
Ports (4)	¼" FNPT
Inlet	¼" FNPT
Outlet	¼" MNPT
Decay Inlet Characteristic	0.35/100 psi

Materials	
Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PTFE
Diaphragm	316 Stainless Steel
Gauges	2 ½" Nickel-Plated Brass
Filter	316 Stainless Steel and Bronze
Valve Stem	316 Stainless Steel
Valve Spring	Nickel-Plated Brass
Outlet Valve	Needle valve in body
Trim	Nickel-Plated Brass

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)
Y11-244A(CGA)	Brass	3,500	25	250	85	0-4,000	30"-Hg-0-30"
Y11-244B(CGA)	Brass	3,500	50	500	150	0-4,000	0-60
Y11-244D(CGA)	Brass	3,500	100	1000	150	0-4,000	0-200
Y11-244F(CGA)	Brass	3,500	250	2000	350	0-4,000	0-400

Available Options	
Product Number	Description
Y99-26120	¼" FNPT x ¼" Compression
Y99-26140	¼" FNPT x ½" Compression
Y15-QMB1	Quick Mounting Option for 1 Cylinder
Y15-QMB2	Quick Mounting Option for 2 Cylinders

