# **Specialty Gas Equipment**



ANALYTIC SERIES PRESSURE REGULATORS

Analytical Brass



## **Design Features**

#### **Check Valve Cylinder Connections**

**Maximum Rated Inlet Pressure** 

**Ambient Operating Temperature** 

**Outlet Pressure Ranges** 

**Designed Leak Rate** 

Flow Capacity

Weight

Ports (6)

Inlet

Outlet

Prevents air and contaminants from entering process stream during cylinder change out Filtered Seat for added gas stream purity and extended service life. Stainless Steel Diaphragms eliminates outgassing associated with elastometric diaphragms. Bar Stock Body provides low internal volume. Encapsulated Filter Seat Assy protect valve seat, extend service life. Chrome Nickel-Plated Brass Body provides long-lasting good looks; will not tarnish. Panel Mount Bonnets front and rear. Specifications

3,500 psig

Cv=0.06

4.7 lbs

1/4" FNPT

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-40° F to +165°F

0.05 psi/100 psi

Bubble-Tight (helium)

1/4" MNPT Instrument Valve

0-25, 0-50, 0-100, 0-250 psig

# Two-Stage Brass Regulators

**Description:** This analytical series of high-purity brass, two stage regulators is recommended for non-corrosive analytical and process applications where precise pressure control is required. This series is ideally suited for chromatographic carrier gas applications including FID, TCD, ECD, HID, and non-corrosive gas mixtures for analytical instrumentation. These units feature stainless steel diaphragms and bar stock bodies with low internal volume and minimal dead space.

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. The two-stage design yields a delivery pressure change of less than 0.05/100 psi inlet change, making this one of the most accurate regulators available from full cylinder to empty. An automatic reseating relief valve protects regulator components from over pressurization while the encapsulated filter assembly protect the valve seats and extend operating service life. These regulators are chrome-plated to maintain their appearance through years of service.

Materials	
Body	Chrome Nickel-Plated Brass
Bonnet	Chrome Nickel-Plated Brass
Seat	PTFE
Diaphragm	316 Stainless Steel
Gauges	21/2" Nickel-Plated Brass
Filter	Nickel-Plated Bronze
Valve Stem	316 Stainless Steel
Valve Spring	18-8 SS
Outlet Valve	Needle valve with 1/4 MNPT
Trim	Nickel-Plated Brass

### **Ordering Information**

**Decay Inlet Characteristic** 

Product Number	Material	Max Inlet Pressure (psig)	Max Outlet Pressure (psig)	<b>Capacity</b> (scfh @ Max Del. Pressure)	Relief Valve Setting (psig)	Inlet Gauge Range (psig)	Delivery Gauge Range (psig)	
Y12-AS244A (CGA)	Brass	3,500	25	250	250	0-4,000	30" Hg-0-30	
Y12-AS244B (CGA)	Brass	3,500	50	450	500	0-4,000	0-60	
Y12-AS244D (CGA)	Brass	3,500	100	900	500	0-4,000	0-200	
Y12-AS244F (CGA)	Brass	3,500	250	1500	500	0-4,000	0-400	

Available Options		
Product Number	Description	
Y99-26120	1/4" FNPT x 1/4" Compression Brass	
Y99-26140	1⁄4" FNPT x □" Compression Brass	
Y15-QMB1	Quick Mounting Option for 1 Cylinder	
Y15-QMB2	Quick Mounting Option for 2 Cylinders	