

## Brass Line Regulators

**Description:** This analytical series of high-purity brass, single-stage regulators is recommended for non-corrosive analytical and process applications. It is recommended to be located as close as possible to the pressure point to maintain constant pressure. This series is ideally suited for chromatographic carrier gas applications including FID, TCD, ECD, HID, and non-corrosive gas mixtures for analytical instrumentation.

The regulator body is machined from brass bar stock, allowing minimal internal volume and eliminating large cavities and pockets associated with forged-body regulators. Chrome-plating keeps it looking good for a long time.

### Design Features

**Filtered Seat (10 micron)**

for added gas stream purity and extended service life.

**Stainless Steel Diaphragms**

eliminate outgassing associated with elastometric diaphragms.

**Bar Stock Body**

provides low internal volume.

**Encapsulated Filtered Seat Assy**

protect valve seat, extend service life.

**Chrome Nickel-Plated Brass Body**

provides long-lasting good looks; will not tarnish.

**Mounting**

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

### Analytical Brass

### ANALYTIC SERIES PRESSURE REGULATORS



| Specifications                | Materials                            |
|-------------------------------|--------------------------------------|
| Maximum Rated Inlet Pressure  | 3,000 psig                           |
| Outlet Pressure Ranges        | 0-25, 0-50, 0-100, 0-150, 0-250 psig |
| Flow Capacity                 | Cv=0.08                              |
| Ambient Operating Temperature | -40° F to +165° F                    |
| Designed Leak Rate            | Bubble-Tight (helium)                |
| Weight                        | 2.6 lbs                              |
| Ports (4)                     | ¼" FNPT                              |
| Inlet                         | ¼" FNPT                              |
| Outlet                        | ¼" FNPT                              |
| Decay Inlet Characteristic    | 1.8 psi/100 psi                      |

|              |                            |
|--------------|----------------------------|
| Body         | Chrome Nickel-Plated Brass |
| Bonnet       | Chrome Nickel-Plated Brass |
| Seat         | PTFE                       |
| Diaphragm    | 316 Stainless Steel        |
| Gauges       | 2½" Nickel-Plated Brass    |
| Filter       | Nickel-Plated Bronze       |
| Valve Stem   | 316 Stainless Steel        |
| Valve Spring | 18-8 Stainless Steel       |
| Trim         | Nickel-Plated Brass        |

### Ordering Information

| Product Number | Material | Max Inlet Pressure (psig) | Max Outlet Pressure (psig) | Capacity (scfh @ Max Del. Pressure) | Delivery Gauge Range (psig) |
|----------------|----------|---------------------------|----------------------------|-------------------------------------|-----------------------------|
| Y11-AS241A     | Brass    | 3,000                     | 25                         | 275                                 | 30" Hg-0-30                 |
| Y11-AS241B     | Brass    | 3,000                     | 50                         | 420                                 | 0-60                        |
| Y11-AS241D     | Brass    | 3,000                     | 100                        | 660                                 | 0-200                       |
| Y11-AS241E     | Brass    | 3,000                     | 150                        | 750                                 | 0-200                       |
| Y11-AS241F     | Brass    | 3,000                     | 250                        | 890                                 | 0-400                       |

### Available Options

| Product Number | Description                    |
|----------------|--------------------------------|
| Y99-26160      | ¼" MNPT x ¼" Compression Brass |
| Y99-26180      | ¼" MNPT x ½" Compression Brass |
| Y15-418984     | Wall Mount Bracket             |