Model LABE

High Purity, Two-Stage, Chrome-Plated Regulators

These metal diaphragm two-stage regulators are specially designed for laboratory applications requiring both high reliability and diffusion resistance. Recommended for high purity non-corrosive gases or gas mixtures, they provide constant outlet pressure regardless of changes in cylinder (inlet) pressure.

Standard Features

- Stainless Steel Diaphragms minimize diffusion of air into regulator and eliminate "off gassing" associated with elastomeric diaphragms, thus maintaining gas purity.
- High Purity Regulator Design permits vacuum purging of regulator.
- Diaphragm Seal Outlet Valve maintains gas purity.
- Two-Stage Regulator Design ensures constant delivery pressure over varying inlet pressures.
- Chrome-Plated Surfaces provide polished appearance and ease of cleaning.
- Cartridge (Encapsulated) Seat Assemblies provide for ease of maintenance and repair.
- Filter in Each Seat Assembly traps foreign matter, extends regulator life and reduces maintenance.

Optional Features

 Relief Valve protects regulator components from the effects of overpressurization.

Optional Equipment

| Part No. |
|-------------|
| |
| RV5573-25i |
| RV5573-90i |
| RV5573-150i |
| RV5573-300i |
| |

Specifications

Maximum Inlet Pressure: 3000 psig Inlet Pressure Gauge (dual scale): 0–4000 psig / 0–275 bar Delivery Pressure Range: See Table I

Delivery Pressure Gauge: See Table I

Filters: 10 micron Gauge Size: 2" Dial

Operating Temperature Range: -40°F to 140°F

Flow Coefficient: Regulator: Cv = 0.15 Outlet Valve: Cv = 0.17

Inlet Connection: CGA 296, 320, 326, 346, 350, 540, 580, 590, or 660 as ordered

Outlet Connection:

1/4" NPT female (on outlet valve)

Optional Relief Valve Vent Connection: 1/4" NPT male

Supply Pressure Effect: 0.04 psi per 100 psi Approximate Weight: 5 lbs.

Materials of Construction

Body: Chrome-Plated Brass Forging Gauges: Chrome-Plated Brass Bonnets: Chrome-Plated Zinc Filters: Nickel-Plated Sintered Bronze Other Metal Parts Exposed to Gas: Brass and Stainless Steel Seat and Seals: PTFE in Regulator Diaphragms: Type 304 Stainless Steel Outlet Valve:

Body: Nickel-Plated Brass Bar Stock

Seat: PCTFE

Diaphragm: Type 316L Stainless Steel

Table I

| | Delivery Pressure | | |
|------------------|-------------------|------------------------------|---------|
| Part No. | Range (psig) | Gauge (dual scale) (psig) | (bar) |
| LABE-3-15-(CGA) | 2–15 | -30" Hg-0-30 | -1-0-2 |
| LABE-3-50-(CGA) | 4–50 | -30" Hg-0-100 | -1-0-7 |
| LABE-3-125-(CGA) | 10–125 | -30" Hg-0-200 | -1-0-14 |
| LABE-3-250-(CGA) | 20–250 | 0–400 | 0–27 |

Where "(CGA)" is indicated above, insert appropriate Compressed Gas Association connection number to complete the part number. Example: LABE-3-15-580. Order by complete part number.



LABE Regulator