

SINGLE AND TWO-STAGE LAB PURITY REGULATORS



SERIES LABD & LABE

The New **LAB PURITY** Regulators from Advanced are specifically designed for high purity laboratory applications requiring accurate and stable pressure control while maintaining gas purity.

As a leader in high purity gas equipment, Advanced's **LAB PURITY** regulators provide a versatile and cost effective means to deliver carrier and calibration gases to analytical and process instrumentation.

Improper selection of gas delivery equipment is a common source of gas contamination due to off-gassing, leakage, air and water permeation into the gas delivery system. By eliminating sources of gas contamination such as elastomeric diaphragms, spring loaded relief valves and packed outlet valves, Advanced's **LAB PURITY** regulators ensure the integrity of your gas delivery system.

LAB PURITY regulators installed in your gas delivery system will safeguard and optimize instrument performance by maintaining your gas purity specifications.

STANDARD FEATURES

- Stainless Steel Diaphragm minimizes diffusion of air into regulator and eliminates "off-gassing", a common occurrence associated with elastomeric diaphragms.
- High Purity Design provides for Inboard, Outboard, and in-line leak rates of less than 1×10^{-8} scc/sec of Air.
- Diaphragm Seal Outlet Valve maintains gas purity.
- Chrome-Plated Surface provides polished appearance and ease of cleaning while providing protection against external corrosion.
- One-Piece Cartridge (Encapsulated) Seat Assembly provides for ease of maintenance and repair.
- Filter in Seat Assembly traps foreign matter, extends regulator life and reduces maintenance.

SPECIFICATIONS

Maximum Inlet Pressure: 3000 psig

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

Flow Coefficient: Model LABD: $C_V = 0.18$
Model LABE: $C_V = 0.15$

Delivery Pressure Ranges: 2–15 psig, 4–50 psig,
10–125 psig and 20–250 psig

Filters: 10 micron

Gauges: 2" dual scale (psi/bar)

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

Outlet Connection: 1/4" NPT female

MATERIALS OF CONSTRUCTION

Body: Chrome-Plated Brass

Outlet Valve: Chrome-Plated Brass Bar Stock

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: Teflon® in Regulator

Diaphragms: Type 302 Stainless Steel

Advanced

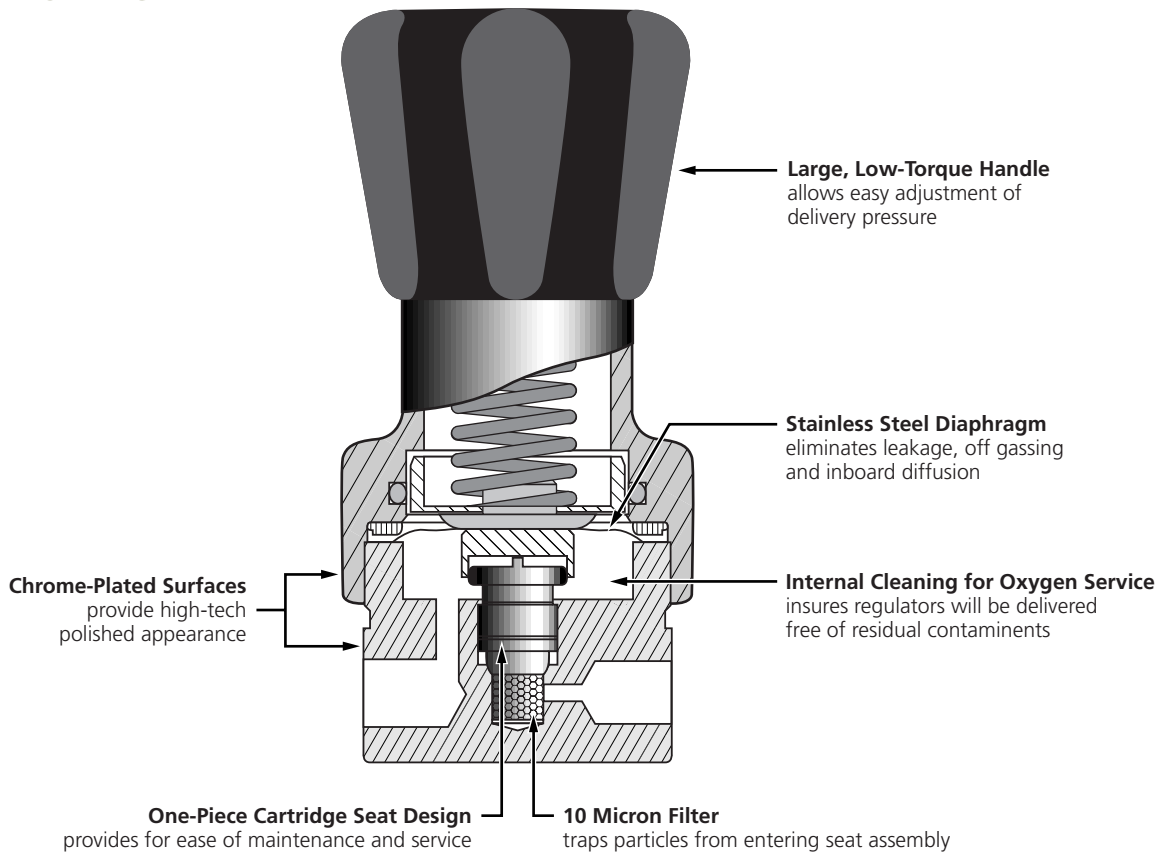


Specialty Gas Equipment

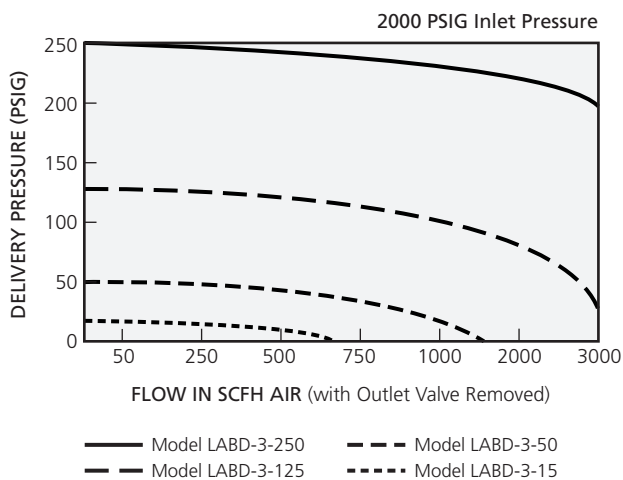
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LAB PURITY

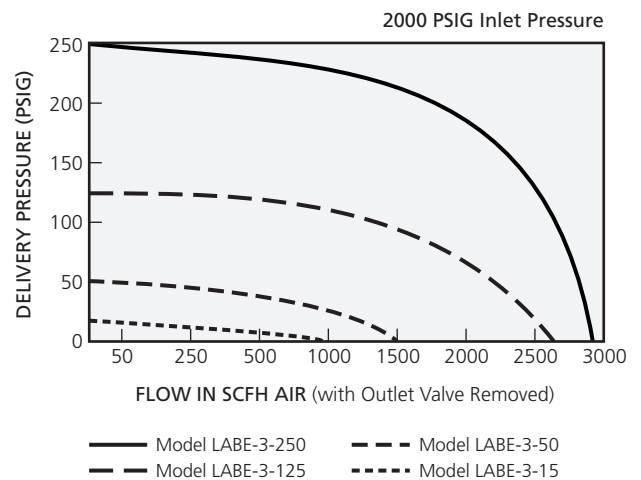
SINGLE STAGE LABD REGULATOR DIAGRAM



SERIES LABD REGULATOR FLOW CURVE



SERIES LABE REGULATOR FLOW CURVE



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