

Low Delivery Pressure Regulators

High-Purity for Noncorrosive/Corrosive Service

Model 750

These metal diaphragm regulators provide highly accurate delivery pressures of 0.2 to 2 psig (0.01 – 0.1 bar) for inlet pressures as high as 3000 psig (206 bar). The large effective diaphragm sensing area provides quick response, accurate and dependable regulation, and long service life. Two-stage design provides constant delivery pressure with no need for periodic pressure readjustment. The Model 750B is suitable for use with high-purity noncorrosive gases and the 750S is perfect for mildly corrosive gases.



Benefits/Features

Two-stage regulator design ensures constant delivery pressure as the inlet pressure decreases.

Type 304 Stainless Steel diaphragms minimize diffusion of air into regulator and eliminate off-gassing associated with elastomeric diaphragms, thus maintaining high gas purity.

Large 3" (76.2mm) diaphragm in the second stage allows for accurate control of delivery pressure down to 0.15 psig (0.01 bar).

Low-torque multi-turn handknob provides sensitive outlet pressure control.

Pressure relief valve protects regulator from over pressurization.

Specifications

Inlet Pressure: 3000 psig (206 bar) maximum

Flowrate: 18 SCFH N₂ maximum at 2000 psig inlet pressure

Operating Temperature Range:
-4°F to 122°F (-20°C to 50°C)

Regulator Inlet Port: 1/4" NPT Female

Inlet Connection: Specify CGA

Outlet Connection: 1/4" NPT Female

Gauge Size:

Model 750B: 1.8" (44.5 mm) face

Model 750S: 2" (53 mm) face

Interstage Relief Valve Setting: 45 psig (3 bar)

Weight: 5 lbs. (2.3 kg)

Materials of Construction

Body:

Model 750B: Chrome-plated brass

Model 750S: 316L Stainless Steel

Diaphragm: 304 Stainless Steel

Other Wetted Surfaces: Brass or stainless steel

Seats:

First Stage: PCTFE

Second Stage: EPDM or Viton®

Seals: PCTFE

Bonnets: Black anodized aluminum

Gauges: Chrome-plated brass or 316 Stainless Steel

Model 750		Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
		psig	bar	psig	bar	psig	bar
Brass	Stainless Steel						
Q1-750B-(*)	Q1-750S-(*)	0.2 – 2	0.01 – 0.1	0 – 3	0 – 0.2	0 – 4500	0 – 315

* Specify CGA. Other cylinder connections are available – please contact your Air Liquide representative.