

High-Pressure Piston Regulators

High-Purity for Noncorrosive/Corrosive Service

Model 2900

These single-stage piston regulators are available in brass or stainless steel and are designed to handle high inlet pressures up to 6,000 psig (414 bar). The stainless steel version is designed to handle high inlet pressures up to 10,000 psig (690 bar). Both are recommended for manufacturing and gas filling process applications.



Benefits/Features

Piston sensed design provides a safe and durable regulator where high delivery pressures are required.

Low-torque handle allows for easy adjustment of delivery pressure, even at high inlet/outlet pressure differentials.

Sintered metal filter protects internal components to extend regulator service life.

Specifications

Inlet Pressure:

Brass: 6,000 psig (414 bar) maximum
Stainless Steel: 10,000 psig (690 bar) maximum

Operating Temperature Range:

-65°F to 140°F (-55°C to 60°C)

Flow Coefficient: Cv = 0.06

Supply Pressure Effect:

1 psi per 100 psi (0.1 bar per 7 bar)

Filter Size: 40 microns

Regulator Inlet Port: 1/4" NPT Female

Inlet Connection: Specify CGA

Outlet Connection: 1/4" NPT Male

Gauge Size: 2.5" (67 mm) face

Weight:

Brass: 5 lbs. (2.3 kg)

Stainless Steel: 5.5 lbs. (2.5 kg)

Materials of Construction

Body: Brass bar stock or 303 Stainless Steel

Piston: 300 Series Stainless Steel

O-Ring: Viton®

Seat: PCTFE

Seals: PTFE

Filter: Brass or 300 Stainless Steel

Bonnet: Brass bar stock or 300 Stainless Steel

Gauges: Brass or stainless steel

Model 2900		Delivery Pressure Range		Delivery Pressure Gauge (dual scale)		Cylinder Pressure Gauge (dual scale)	
		psig	bar	psig	bar	psig	bar
Brass	Stainless Steel						
Q1-2900AB-(*)		200 – 1500	14 – 103	0 – 2000	0 – 138	0 – 7500	0 – 518
Q1-2900BB-(*)		300 – 3500	21 – 241	0 – 4000	0 – 276	0 – 7500	0 – 518
Q1-2900CB-(*)		400 – 6000	28 – 414	0 – 7500	0 – 518	0 – 7500	0 – 518
	Q1-2900AS-(*)	200 – 3500	14 – 241	0 – 4000	0 – 276	0 – 10,000	0 – 690
	Q1-2900BS-(*)	400 – 6000	28 – 414	0 – 7500	0 – 518	0 – 10,000	0 – 690

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