

Models AG1000, AG1010

Ultra High Purity, Ultra High Flow Line Regulators

The Model AG1000 and AG1010 line regulators are ideal for high flow delivery (pipeline) systems requiring high leak integrity and guaranteed gas purity levels. The large main valve and flow capacity of Cv=1.0, allow for flow rates up to 100 scfm at a maximum inlet pressure of 3000 psig,

Model AG1000 is suitable for non-corrosive service, while Model AG1010 is designed for corrosive gas applications.



AG1010 Regulator

Standard Features

- Metal to Metal Diaphragm to Body Seal (without back-up o-ring) assures maximum diffusion resistance.
- High Purity Regulator Design permits vacuum purging of regulator.
- In-line Porting permits direct installation of regulator in piping system.
- Balanced Poppet (stem) minimizes effect of changes in inlet pressure on delivery pressure settings.
- Filter traps foreign matter, extends regulator life and reduces maintenance.
- Threaded Holes in Rear of Regulator permit front panel mounting.
- 2½" Gauge reads easily for more precise settings.

Optional Features

- Mounting Ring permits regulator to be panel mounted
- Regulator Mounting Plate allows for easy mounting of regulator to wall or panel.
- Internal (Inboard) Helium Leak Test and Test Report determines inboard leak rate of gas from regulator to atmosphere; test report certifies leak rate of less than 2×10^{-8} sccs air equivalent.
- External (Outboard) Helium Leak Test and Test Report determines outboard leak rate of gas from regulator to atmosphere; test report certifies leak rate of less than 5×10^{-7} sccs air equivalent.

Specifications

Maximum Inlet Pressure: 3000 psig

Delivery Pressure Range: See Table I

Delivery Pressure Gauge: See Table I

Filter: 40 micron

Gauge Size: 2½" Dial

Operating Temp. Range: -40°F to 140°F

Flow Coefficient: Cv = 1.0

Inlet and Outlet Connections:

½" NPT female (standard)

Approximate Weight: 4 lbs.

Materials of Construction

Body:

AG1000: Brass Bar Stock

AG1010: Type 316 SS Bar Stock

Gauges:

AG1000: Brass

AG1010: Type 316 Stn. Stl.

Bonnet: Electroless Nickel-Plated Brass

Other Metal Parts Exposed to Gas:

AG1000: Brass

AG1010: Type 316 Stn. Stl.

Seat: PCTFE

Diaphragm: Type 316 Stainless Steel

Seals: PTFE

Table I

Part Number		Delivery Pressure		
		Range (psig)	Gauge (dual scale) (psig)	(bar)
Brass	Stainless Steel			
AG1000-30	AG1010-30	4-30	0-60	0-4
AG1000-100	AG1010-100	10-100	0-200	0-14
AG1000-200	AG1010-200	20-200	0-400	0-27

Optional Equipment

Equipment	Part No.
Panel Mounting Ring*	PM3803
Regulator Mounting Plate with Hardware	RP2
Inboard Helium Leak Test and Test Report	HT1000
Outboard Helium Leak Test and Test Report	HT1001
Compression Fittings (two required)*	
½" compression for Model AG1000	SG6708
½" compression for Model AG1010	SG6718

* If selected, these items are not installed on the regulator. They are shipped as separate items.