



Model 18 Series

Single-Stage General Purpose Brass Regulator



Description

General purpose regulators with rugged construction for use with non-corrosive gases.

Applications

- Use with gases that are 99.995% or lower purity.
- Regulation of air supply to valves and actuators.
- Inert gas supply for purging applications.
- Calibration of pressure gauges, rotameters, and mass flowmeters.
- Applications with high duty cycle/demanding operating conditions.

Design Features/Components

- Forged brass body
- Neoprene diaphragm
- 2" inlet and delivery pressure gauges
- Equipped with outlet needle valve
- 1/4" NPTM outlet connection with loose hose barb
- Porous metal filter to protect seat from contamination
- Model 18R uses Tee handle for pressure adjustment; all others use black knob shown

Materials of Construction

Gauges:	Brass, Painted steel covers
Body:	Forged brass
Bonnet:	Chrome plated brass
Diaphragm:	Neoprene
Seat:	PTFE Teflon
Seals:	Neoprene

Specifications

Maximum Inlet Pressure:	3000 psig (20,700 kPa)
	Model 18A: 400 psig (2,760 kPa)
Maximum Flow Rate:	Model 18B: 900 CFH (425 LPM)
(At 2000 psig, N ₂)	Model 18: 2000 CFH (944 LPM)
	Model 18L: 4000 CFH (1890 LPM)
	Model 18H: 5000 CFH (2360 LPM)
	Model 18R: 5000 CFH (2360 LPM)
	Model 18A: 500 SCFH (236 LPM)
(At 400 psig, N ₂)	Flow Capacity (Cv): 0.17 without outlet valve
Operating Temperature:	-20°F to 140°F (-29°C to 60°C)
Porting (Regulator Body):	1/4" NPT Female
Porting Configuration:	2 High, 2 Low
Shipping Weight:	4 lbs

Ordering Information

Model Number*	Delivery Pressure Range	Delivery Pressure Gauge	Cylinder Pressure Gauge
18A-510**	0-15 psig	0-30 psig	0-400 psig
18B-CGA	0-15 psig	0-30 psig	0-4000 psig
18-CGA	2-50 psig	0-60 psig	0-4000 psig
18L-CGA	4-100 psig	0-150 psig	0-4000 psig
18H-CGA	10-200 psig	0-400 psig	0-4000 psig
18R-CGA***	20-500 psig	0-1000 psig	0-4000 psig

*Note: Some CGA limitations may apply.

**For Acetylene Service Only

***Uses Tee handle. All other models use black knob as shown.

Options

Model Number	Description
CON-0208-BO	1/4" Compression Tube Outlet Connection (Brass)
400V	Check Valve
6103A-F	Flash Arrestor for Flammable Gases