

# L96 Series

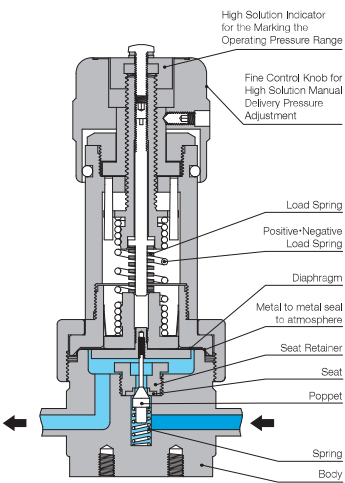
## Absolute Pressure Regulator

Inlet Pressure	Max.1.0 MPaG (145 PSIG)
Outlet Pressure	-0.1 MPaG to 0.2 MPaG (-30 in HgG to 29.0 PSIG)
Proof Pressure	22.2 MPa (3,219 PSI)
CV	0.07
Temperature	-10°C to +40°C
Outboard Leakage	1×10 <sup>-11</sup> Pa·m <sup>3</sup> /sec·He (1×10 <sup>-10</sup> atm·cc/sec·He)
Internal Volume	5,739 cc (0.35 in <sup>3</sup> ) w/o fittings
Approximate weight	1.6 kg (3 lbs. 8 oz.)
Installation	Threaded holes on the rear surface

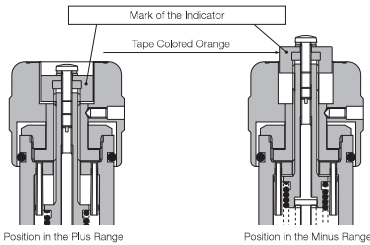
[NOTE]  
1MPa = 10.2 kgf/cm<sup>2</sup> = 145.04 PSI  
1MPa = 7504.36 mmHg = 295.4 inHg



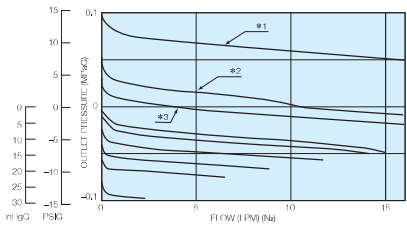
### Cross sectional drawing



[NOTE]  
· Avoid turning the control knob excessively.  
· No filter in this unit.

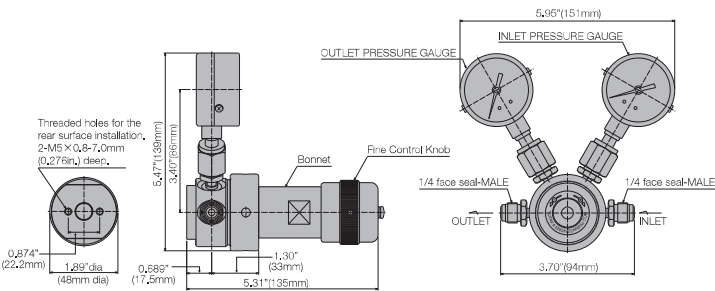


### Flow characteristics



[NOTE]  
· #1 Inlet Pressure=0.2MPaG (29.0 PSIG)  
· #2 Inlet Pressure=0.1MPaG (14.5 PSIG)  
· #3 Inlet Pressure=-0.1MPaG (14.5 PSIG)  
· Flow curves below 0 MPaG (0 PSIG) in the outlet pressure are under vacuumizing the outlet side.  
· These tests were performed at ambient conditions.

### Outline drawing



[NOTE]  
· Dimensions are in inches and (mm) for reference only.  
· Subject to change without notice.

### Materials of construction

MODEL & TYPE	L96SS	L96SH	L96SS-CO
Wetted Parts			
Body	SUS316L		
Poppet & Seat Retainer	SUS316L	Hastelloy® C-22	SUS316L
Diaphragm	Hastelloy® C-22		SUS316L
Seat	PTFE		
Spring	SUS316L		
Gasket to seal for gauge	Ni		SUS316L
Non-wetted Parts			
Bonnet (B)	Chromium Plated Brass		
Cap	SUS304		
Stem	Nickel Plated Brass		
Control Knob	Chromium Plated Brass		

### Wetted surface finishes

Standard Ra (GRADE "B")	32μin. (0.80μm) or less
Optional Ra (GRADE "A")	7μin. (0.18μm) or less

### Standard connections

1/4" face to face length of the male and female are the same, ..... 3.70in. (94mm)  
1/4" Tube stubs and other connections available as options.

[NOTE]  
· Any combination of Face Seal male and/or female fittings are available for inlet and outlet.  
· Size and configuration of pressure gauge port is 1/4" Face Seal male.

### Ordering information

