

L35 Series

RoHS Directive Products

Medium Flow Rate Applications

Inlet Pressure	Max.6 MPaG (Max.870 PSIG)
Outlet Pressure	Max.0.9 MPaG (Max.130.5 PSIG) (Pressure Range: 0~0.2 MPa, 0~0.4 MPa, 0~0.6 MPa, 0~0.9 MPa)
Supply Pressure Effect	0.0007 MPaG (0.10 PSIG) per 0.1 MPaG (14.5 PSIG)
Proof Pressure	9 MPa (1,305 PSI)
CV	0.21
Temperature	-10°C to +40°C
Outboard Leakage	$1 \times 10^{-11} \text{ Pa} \cdot \text{m}^3/\text{sec} \cdot \text{He}$ ($1 \times 10^{-10} \text{ atm} \cdot \text{cc}/\text{sec} \cdot \text{He}$)
Internal Volume	11.3 cc (0.68 in ³) w/o fittings
Approximate weight	1.95 kg (4 lbs. 5 oz.)
Installation	Threaded holes on the rear surface or Panel mounting

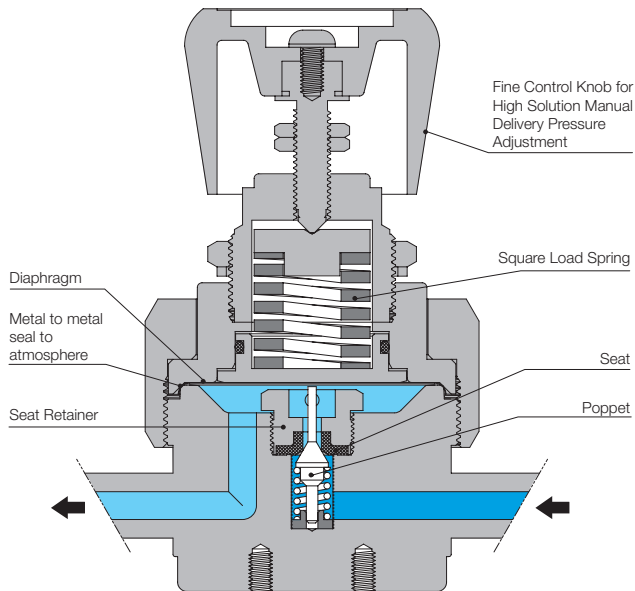
[NOTE]

1MPa = 10.2 kgf/cm² = 145.04 PSI

1MPa = 7504.36 mmHg = 295.4 inHg



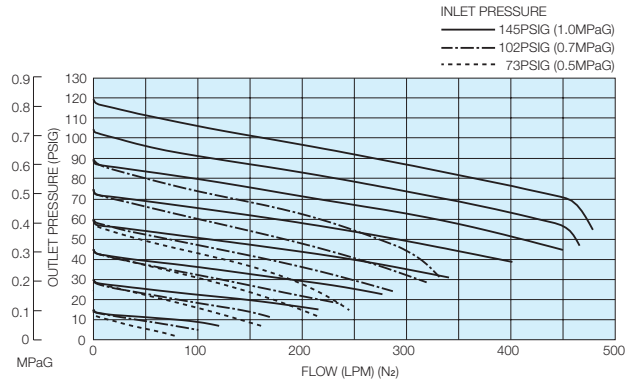
Cross sectional drawing



[NOTE]

- Avoid turning the control knob excessively.
- No filter in this unit.

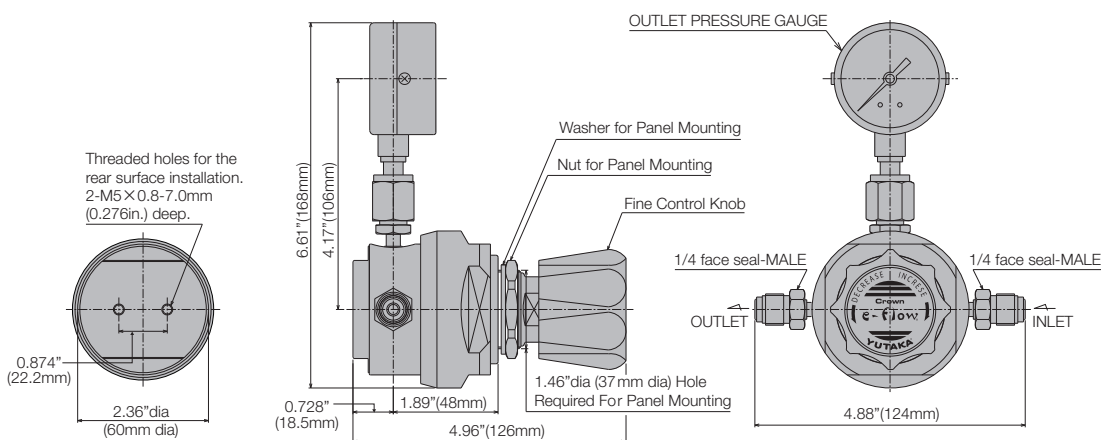
Flow characteristics



[NOTE]

- These tests were performed at ambient conditions.

Outline drawing



- [NOTE]
- Dimensions are in inches and (mm) for reference only.
 - Face to face length of the male and female are the same.
 - Subject to change without notice.

Materials of construction

MODEL & TYPE	L35SS	L35SH	L35SH-CL2	L35SS-N2O	L35SS-CO	L35SS-NH3
Wetted Parts						
Body	SUS316L					
Poppet & Seat Retainer	SUS316L	Hastelloy® C-22	SUS316L			
Diaphragm	Hastelloy® C-22			SUS316L	Hastelloy® C-22	
Seat	PCTFE	Special Fluoroplastics	VespeI®	PCTFE	Special Fluoroplastics	
Spring	SUS316					
Gasket to seal for gauge	Ni			SUS316	Ni	
Non-wetted Parts						
Bonnet	SUS304					
Control Knob	ABS Resin					
O-ring	NBR					

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. 4.88in. (124mm)
- 1/4" Tube stubs and other connections available as options.
- 3/8", 1/2" face to face length of the male and female are the same. 5.2in. (132mm)

- [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

