

R35 Series

RoHS Directive Products

Medium Flow Applications

Inlet Pressure	Max.6 MPaG (Max.870 PSIG)
Outlet Pressure	Max.0.99 MPaG (Max.144 PSIG) (Pressure Range: 0~0.2 MPa, 0~0.4 MPa, 0~0.6 MPa, 0~0.99 MPa)
Supply Pressure Effect	0.0006 MPaG (0.087 PSIG) per 0.1 MPaG (14.5 PSIG)
Proof Pressure	9 MPa (1,305 PSI)
CV	0.35
Temperature	-10°C to +40°C
Outboard Leakage	Screw (P); 1×10^{-9} Pa · m ³ /sec · He (1×10^{-8} atm · cc/sec · He) Welding (W); 1×10^{-11} Pa · m ³ /sec · He (1×10^{-10} atm · cc/sec · He)
Internal Volume	19.74 cc (1.2 in ³) w/o fittings
Approximate weight	1.95 kg (4 lbs. 5 oz.)
Installation	Threaded holes on the rear surface or Panel mounting

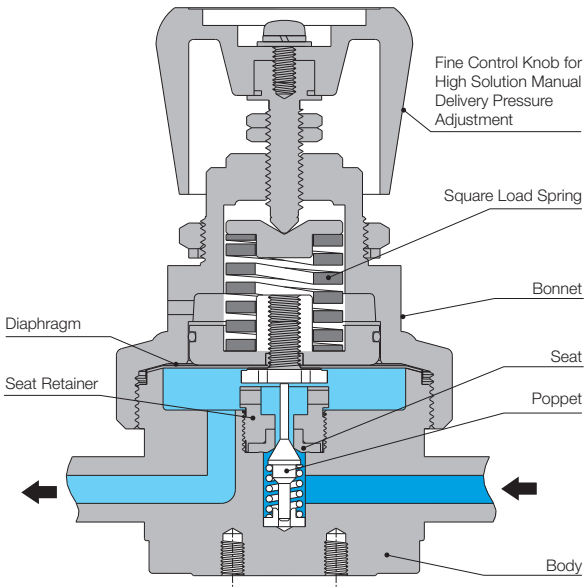
[NOTE]

1MPa = 10.2 kgf/cm² = 145.04 PSI

1MPa = 7504.36 mmHg = 295.4 inHg



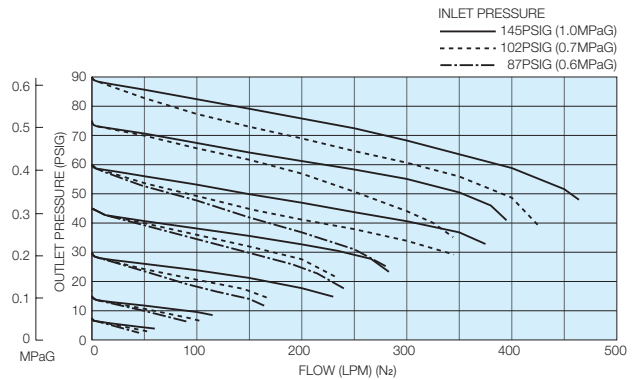
Cross sectional drawing



[NOTE]

- Avoid turning the control knob excessively.
- For purging at 870 PSIG (6 MPaG) and higher, operate the unit in consideration of changing the outlet pressure by the supply pressure effect.
- No filter in this unit.

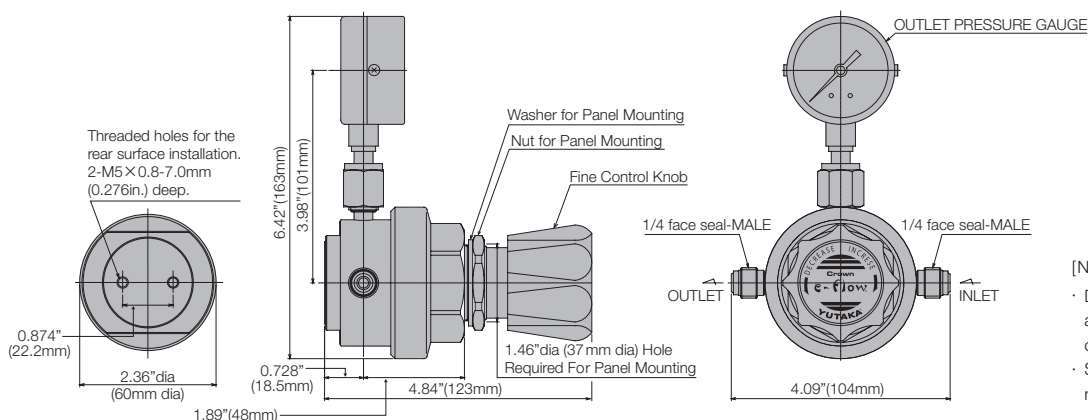
Flow characteristics



[NOTE]

- These tests were performed at ambient conditions.

Outline drawing



Materials of construction

MODEL & TYPE	R35SS	R35SH	R35SH-CL2	R35SS-N20	R35SS-CO
Wetted Parts					
Body	SUS316L				
Poppet & Seat Retainer	SUS316L	Hastelloy® C-22		SUS316L	
Diaphragm	SUS316L	Hastelloy® C-22		SUS316L	
Seat	PTFE		Special Fluoroplastics	Vespel®	PTFE
Spring	SUS316				
Gasket	PTFE				
Gasket to seal for gauge		Ni			SUS316
Non-wetted Parts					
Bonnet	Nickel Plated Brass				
Control Knob	ABS Resin				
O-ring	NBR				

Wetted surface finishes

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

Standard connections

- 1/4" NPT body length 2.36in. (60mm)
- 1/4" face to face length of the male and female are the same. (Male) 4.09in. (104mm)
- 1/4" face to face length of the male and female are the same. (Female) 4.33in. (110mm)
- 3/8", 1/2" face to face length of the male and female are the same. 4.72in. (120mm)
- 3/8" sus tube fitting length 4.96in. (126mm)

[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

