

R61 Series

High Flow Rate Applications

Inlet Pressure	Max.24 MPaG (Max.3,480 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	0.001 MPaG (0.145 PSIG) per 0.1 MPaG (14.5 PSIG)
Proof Pressure	31.5 MPa (4,567 PSI), 1.5 MPa (Outlet Side)
CV	0.31
Temperature	-10°C to +40°C
Outboard Leakage	Screw (P); $1 \times 10^{-9} \text{ Pa} \cdot \text{m}^3/\text{sec} \cdot \text{He}$ ($1 \times 10^{-8} \text{ atm} \cdot \text{cc}/\text{sec} \cdot \text{He}$) Welding (W); $1 \times 10^{-11} \text{ Pa} \cdot \text{m}^3/\text{sec} \cdot \text{He}$ ($1 \times 10^{-10} \text{ atm} \cdot \text{cc}/\text{sec} \cdot \text{He}$)
Internal Volume	25.3 cc (1.54 in ³) w/o fittings
Approximate weight	2.0 kg (4 lbs. 7 oz.)
Installation	Threaded holes on the rear surface or Panel mounting

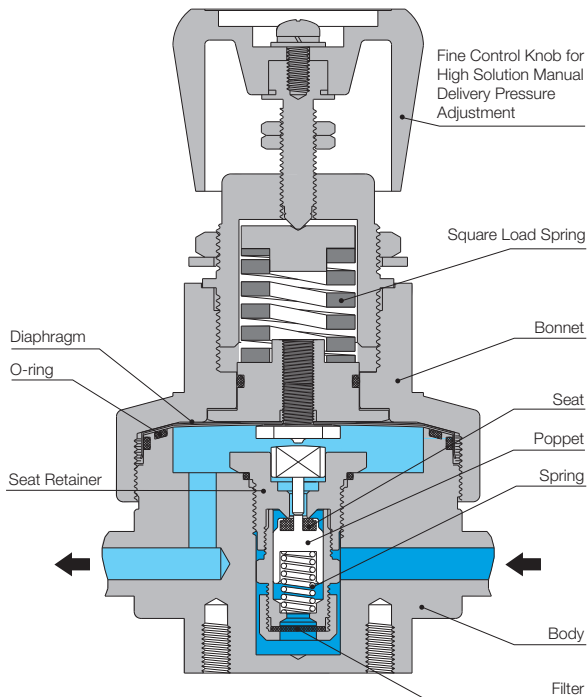
[NOTE]

1MPa = 10.2 kgf/cm² = 145.04 PSI

1MPa = 7504.36 mmHg = 295.4 inHg



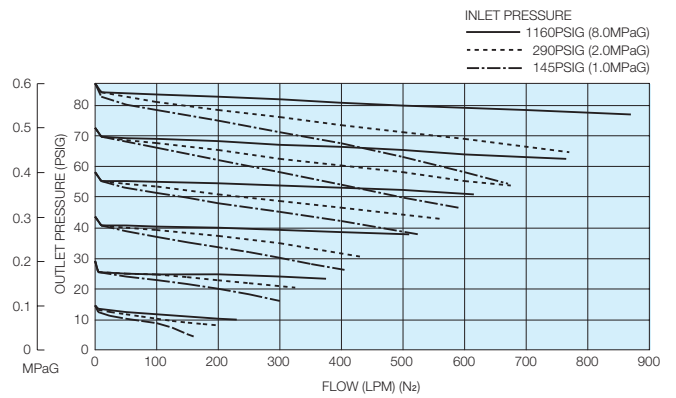
Cross sectional drawing



[NOTE]

· Avoid turning the control knob excessively.

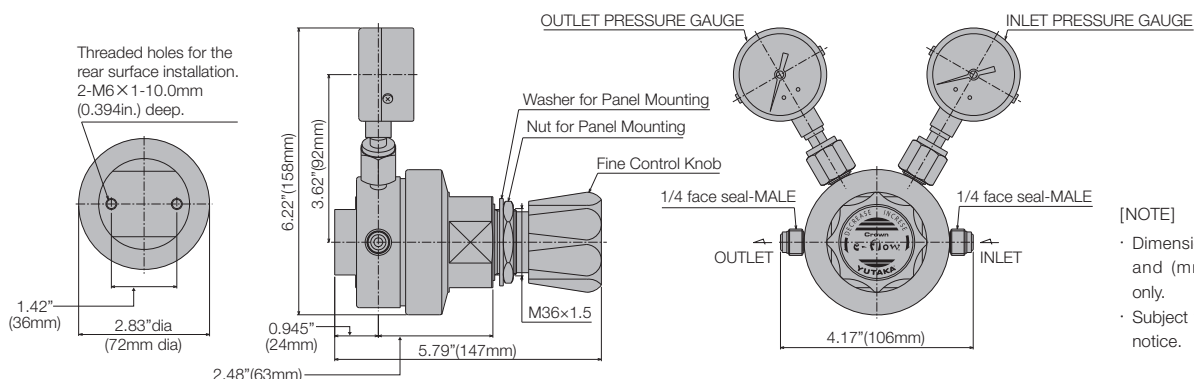
Flow characteristics



[NOTE]

· 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	R61SS
Wetted Parts	
Body	SUS316
Poppet & Seat Retainer	SUS316
Diaphragm	SUS316L
Seat	PCTFE
Spring	SUS316
Gasket	PTFE
Gasket to seal for gauge	Ni
Non-wetted Parts	
Bonnet	Chromium 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 2.83in. (72mm)
- 1/4" face to face length of the male and female are the same. (Male) 4.17in. (106mm)
- 1/4" face to face length of the male and female are the same. (Female) 4.84in. (123mm)
- 3/8", 1/2" face to face length of the male and female are the same. 5.20in. (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

