

# R25 Series

## Point-of-Use Pressure Regulator

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	0.00178 MPaG (0.27 PSIG) per 0.1 MPaG (14.5 PSIG)
Proof Pressure	31.5 MPa (4,567 PSI), 1.5 MPa (Outlet Side)
CV	0.12
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	4.67 cc (0.28 in <sup>3</sup> ) w/o fittings
Approximate weight	0.96 kg (2 lbs. 2 oz.)
Installation	Threaded holes on the rear surface or Panel mounting

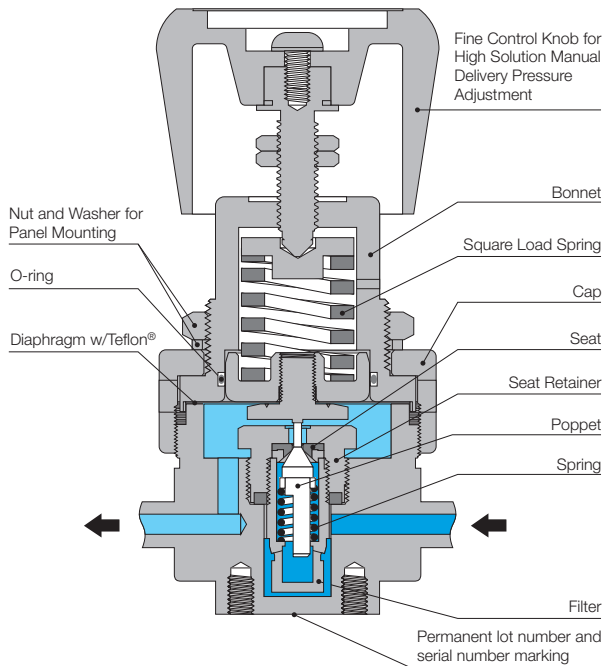
[NOTE]

1MPa = 10.2 kgf/cm<sup>2</sup> = 145.04 PSI

1MPa = 7504.36 mmHg = 295.4 inHg



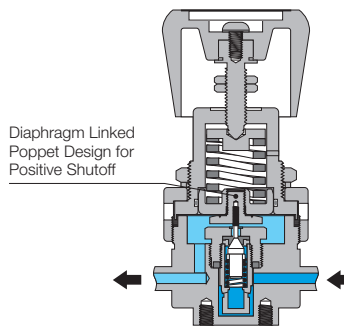
### Cross sectional drawing



[NOTE]

- Avoid turning the control knob excessively.
- For purging at 870 PSIG (6 MPaG) and higher, operate the unit in consideration of changing the outlet pressure by the supply pressure effect.

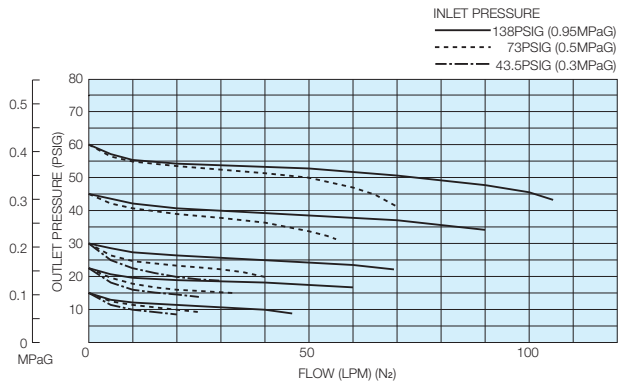
### Tied Diaphragm (Optional)



[NOTE]

Operating the Tied Diaphragm Type: In order to minimize premature wear of regulator's internal parts. Be sure not to close regulator while under pressure.

### Flow characteristics



[NOTE]

- These tests were performed at ambient conditions.

