Back Pressure

VBR series

Regulator

Features

Uni-Lok Back Pressure Regulator is used to maintain a constant upstream pressure of gas, vapor or liquid.

Designed for accurate regulation under low flow conditions, these units are widely used for protection of analysis instrumentation or as a relief valve in supply pressure lines to control valves.

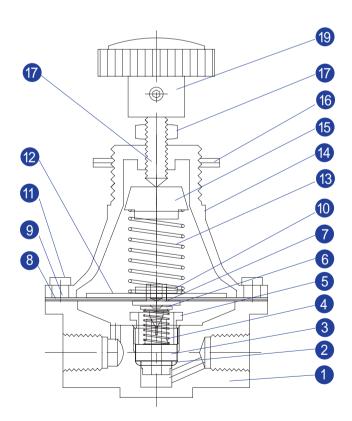


Connection: 1/4 Female NPT

Operating Temperature : -29°C(-20°F) ~ 66°C(150°F)

Sensitivity: 0.05psi

Regulated Back Pressure Ranges: 0~125psig as standard





Materials of Construction

| NIo | Description | Matariala |
|-----|----------------------|-----------|
| No. | Description | Materials |
| 1 | Body | 316SS |
| 2 | Body Seat | PTFE |
| 3 | Nozzle | 316SS |
| 4 | Plug Spring | 304SS |
| 5 | Nozzle Retaining Nut | 316SS |
| 6 | Plug | 316SS |
| 7 | Rivet | 316SS |
| 8 | Packing Plate | PTFE |
| 9 | Rubber Seat | Rubber |
| 10 | Rivet Gland | 316SS |
| 11 | Bolt | 304SS |
| 12 | Ribet Plate | Brass |
| 13 | Range Spring | 302SS |
| 14 | Bonnet | Aluminium |
| 15 | Spring Plug | Brass |
| 16 | Lock Nut | 316SS |
| 17 | Handle Stem | 316SS |
| 18 | Lock Nut | 316SS |
| 19 | Handle | Xenoy |



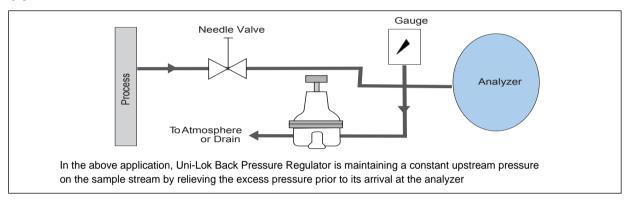
Principle of Operation

Turning the hand wheel changes the force exerted by the range spring on the diaphragm assembly. In equilibrium, the force exerted by the range spring is balanced by the force from back pressure acting underneath the diaphragm assembly.

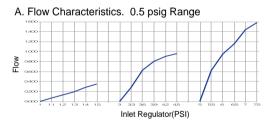
If the back pressure rises above the set pressure, the diaphragm seat is lifted allowing the nozzle plug to open. The excess pressure flows through the exhaust port until the back pressure is reduced to the set point.

While the back pressure is at or below the set point, the range spring holds the nozzle plug against its seat, shutting off the flow to the exhaust port.

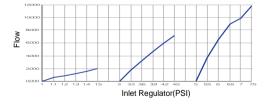
Application



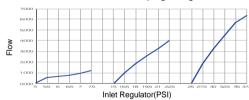
Range Selection







B. Flow Characteristics. 0-25 psig Range



D. Flow Characteristics. 0-125 psig Range



Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.



















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