Features

- Control sensitivity to 1" water column allows use in precision applications.
- Large Control Diaphragm area for increased sensitivity.
- Fluorocarbon Elastomers are compatible with corrosive materials and environments.
- Valve Damper eliminates hunting and buzzing.
- Line or Panel Mounting provides flexibility for installation.

Operating Principles

When you adjust the Range Screw to a specific setpoint, the Range Spring exerts a downward force against the top of the Control Diaphragm. This downward force closes the Relief Valve. When the force from the system pressure that acts on the bottom of the Control diaphragm is less than the force that acts on the top of the Control Diaphragm, the Relief Valve remains closed.

When the system pressure increases, the force that acts on the bottom of the Control Diaphragm increases until it reaches the setpoint.

When the system pressure rises above the setpoint, the Diaphragm Assembly moves upward lifting the Relief Valve from its seat and vents the excess pressure from the system. The relief valve closes as set point is reached.
Technical Information

Specifications
Supply Pressure
150 psig, [10 BAR], (1000 kPa) Maximum
Flow Capacity
22 SCFM (37.4 m³/HR) @ 100 psig, [7.0 BAR], (700 kPa) system pressure
Sensitivity
1” (2.54 cm) Water Column
Ambient Temperature
-85°F to +300°F, (-65°C to 149°C)
Materials of Construction
Body and Housing .................. 316 Stainless Steel
Diaphragms .................. Fluorocarbon on Nomex
................................. with Teflon shield
Trim ................................. 316 Stainless Steel and Teflon

Catalog Information

Catalog Number 6 6 2

Pressure Range
psig [BAR] (kPa)
0-10 [0-0.70] (0-70) ............ 2
0.5-30 [0.03-2] (3-200) ........ 3
1-60 [0.10-4] (10-400) ........ 4
2-100 [0.15-7] (15-700) ...... 5
2-150 [0.15-10] (15-1000) ... 6

Inlet/Outlet Port Size
1/4” NPT .................................. 2
3/8” NPT .................................. 3
1/2” NPT .................................. 4

Port Thread
NPTF ........................................ N
BSPT (Tapered) ......................... U
BSPP (Parallel) ......................... H
Elastomers
Fluorocarbon .......................... J
Actuator
Knob Adjust ............................. K
Screw ................................. S
Bonnet
Stainless Steel .......................... S
Aluminum .......................... A
Options
Tapped Exhaust ........................ E
Mounting
None ................................. N
Panel Mounting ........................ P

Installation
For installations instructions, refer to the Fairchild Model 66 Stainless Steel Back Pressure Regulator Instruction, Operation and Maintenance Instructions, IS-100066BP.