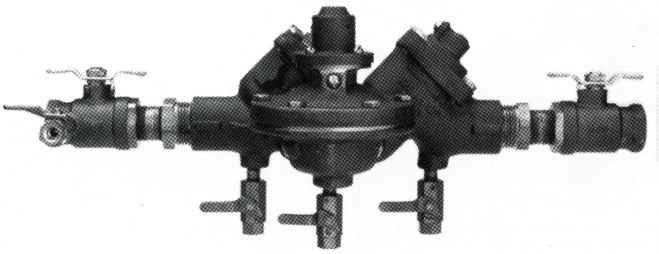
CLA-VAL™

—MODEL— **RP-2**

Reduced Pressure Principle Backflow Preventer



- **Meets AWWA Standard C511-89**
- **Low Head Loss**
- **All Parts are Corrosion Resistant**
- **Designed for Easy Field Testing**

The Model RP-2 Backflow Preventer combines maximum protection against backflow with exceptionally low head loss characteristics. It operates on the reduced pressure principle, which is an accepted method of safeguarding potable water supplies against the hazards of cross-connections.

The Model RP-2 assembly is carefully constructed of corrosion-resisting materials. It consists of two independently acting poppet-type check valves, an automatic pressure differential relief valve located between the two check valves, two shut off valves and four test cocks. Field testing is easily performed by means of the test cocks.

The RP-2 must be installed in a horizontal position with the Relief Valve discharging vertically down.

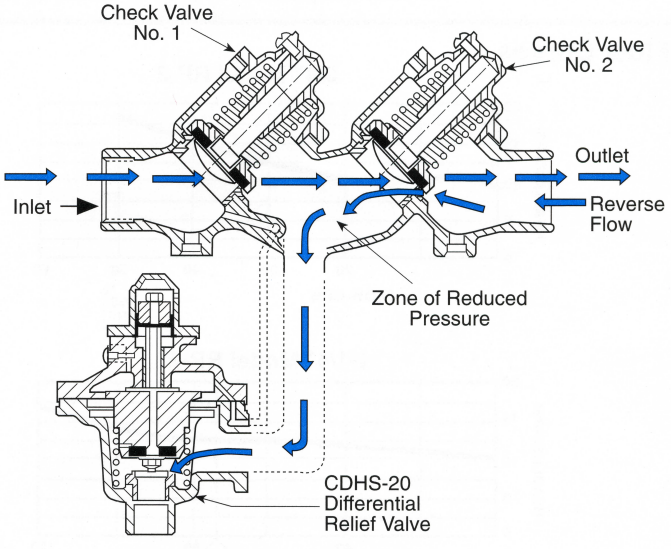
Principle of Operation

When a normal flow condition exists, both check valves are open and the pressure differential relief valve is closed. No pressure adjustments are required. The unit operates efficiently at either high or low pressure. The flow charts, opposite side, show the slight pressure drop obtained at rated flow.

When flow ceases, pressure in the zone between the check valves is maintained at least 2 psi lower than inlet pressure. Should inlet pressure drop to within 2 psi or less of the zone of reduced pressure, the differential relief valve opens the zone to atmosphere.

Should a backflow condition exist, the pressure differential relief valve will open to maintain the zone pressure at least 2 psi less than the inlet pressure.

It is recommended that this unit be installed in a horizontal position and that provisions for adequate drainage be made. Right hand mount of relief valve is standard. Left hand mount is optional. Standard shut-off valves are resilient seat ball type.



Specifications

Size:
¾", 1", 1 ¼", 1 ½"

End Detail:
Screwed: ANSI B 16.15

Maximum Working Pressure:
175 psi

Hydrostatic Test Pressure:
to 350 psi

Max. Temperature:
to 110°F

Fluid: Water

Material:
Main Body Valve and Cover:
Bronze ASTM B-61
Main valve trim:
Bronze ASTM B-61 & Delrin
Differential Relief Valve:
Bronze ASTM B-61 with Stainless Steel 316 Trim
Shut-off Valves:
Resilient Seat Ball Type

Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of California.

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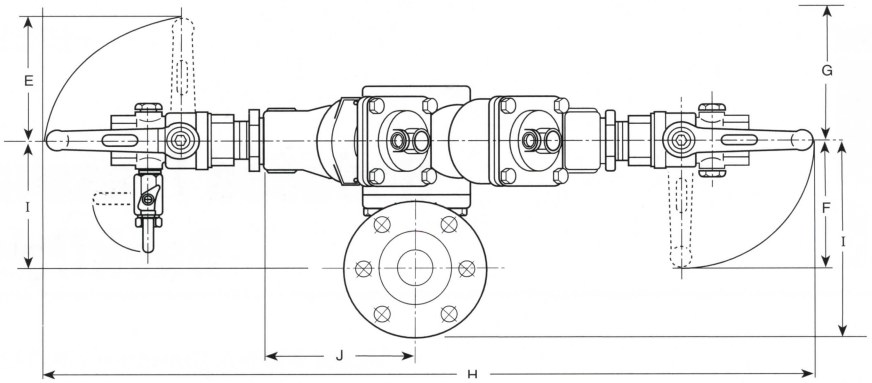
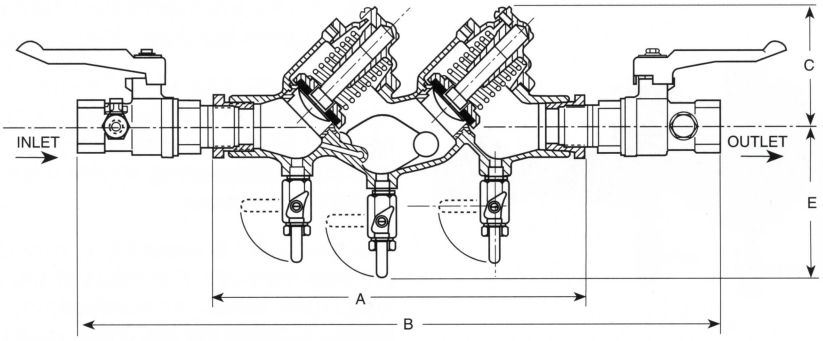
Dimensions
(In Inches)



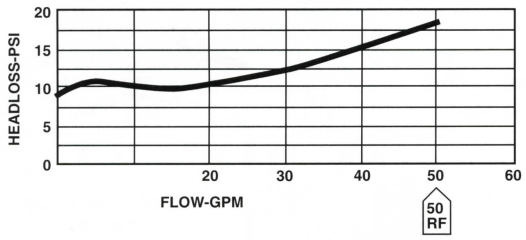


VALVE	A	B	C	D	E	F	G	H	I	J
¾"	9.00	16.81	3.00	3.31	4.06	4.62	4.62	21.75	6.00	4.09
1"	10.12	17.06	3.00	3.31	4.06	3.62	3.62	20.62	6.00	4.09
1 ¼"	13.25	21.25	4.00	3.75	4.50	4.44	4.44	26.00	6.12	4.81
1 ½"	11.75	21.62	4.00	3.75	4.50	6.00	6.00	28.38	6.12	4.81

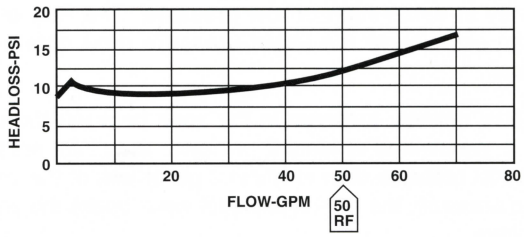
We recommend providing adequate space around assembly for maintenance work and testing.

Flow Curves

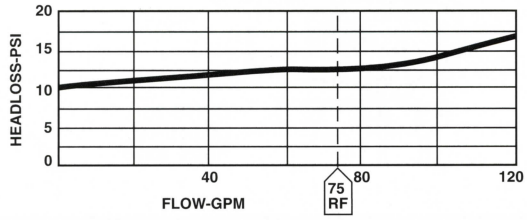
3/4" Model RP-2



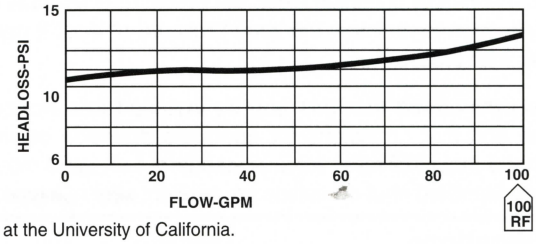
1" Model RP-2



1-1/4" Model RP-2



1-1/2" Model RP-2



Flow curves generated by the Foundation for Cross-Connection Control and Hydraulic Research at the University of California.
"Rated Flow" Values adopted by the American Water Works Association and the New England Water Works. Association

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