

## Model RP-4V Reduced Pressure Principle Vertical Backflow Preventer 4" to 8"

### DESCRIPTION

The Cla-Val Model RP-4V Backflow Preventer protects potable water lines against contamination. It combines protection against backflow with exceptionally low head loss characteristics. It operates on a reduced pressure principle, an accepted method of safeguarding potable water supplies against hazardous cross-connections. The 4" Size Model RP-4V has USC's FCCC & HR approval.

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The Model RP-4V is carefully constructed of corrosion resisting materials. It consists of two independently acting toggle lever check valves, an automatic pressure differential relief valve located between the two check valves, two shutoff valves and four test cocks. The levers, links and pins are rugged, simple and direct with ample clearances to insure long, trouble free operation, even in very hard water and over prolonged periods of time. All internal parts are readily accessible without removing the device from the line.

### FEATURES

- Low Head Loss
- No Internal or External Weights
- Durable Heavy Duty Construction
- Positive Automatic Operation
- Corrosion resistant materials

### TYPICAL APPLICATION

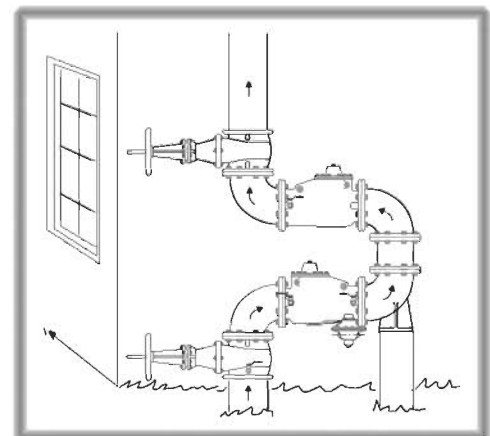
The unique RP-4V is installed in vertically oriented piping systems to protect potable water against backflow contamination

### INSTALLATION

It is recommended that this unit be installed with check valves 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 a resilient seat non-rising stem design. When used in fire service, OS&Y Shutoff Valves are required.

### CHARACTERISTICS

<b>Max working pressure:</b>	175 psi
<b>Hydrostatic test pressure:</b>	350 psi
<b>Max temperature:</b>	Up to 110°F
<b>Fluid:</b>	Water

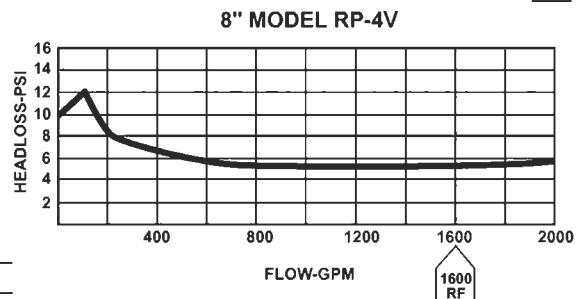
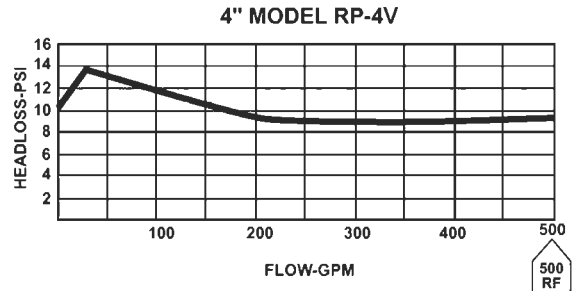
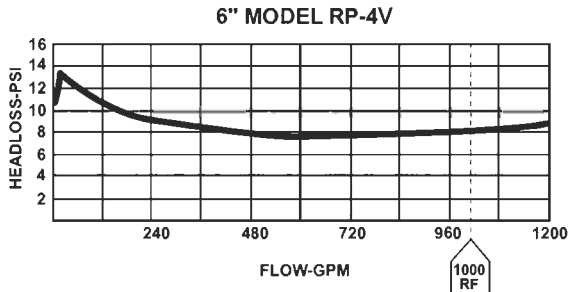


# MODEL RP-4V

## MATERIALS

Body & cover: Cast iron ASTM A-126, interior epoxy coated  
 Main valve trim: Bronze ASTM B-61  
 Differential relief valve: Bronze ASTM B-61, stainless steel 316 trim  
 Shut-offs: Resilient seat OS&Y, epoxy coated interior & exterior AWWA C550

## FLOW CURVES

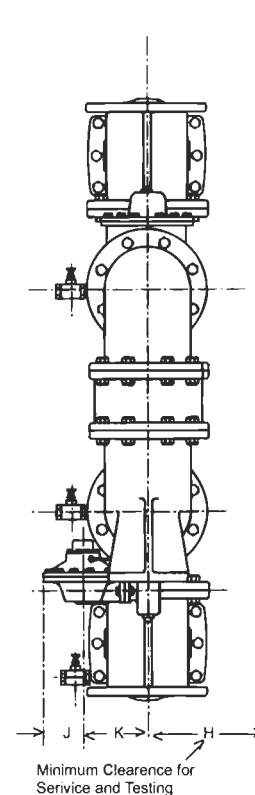
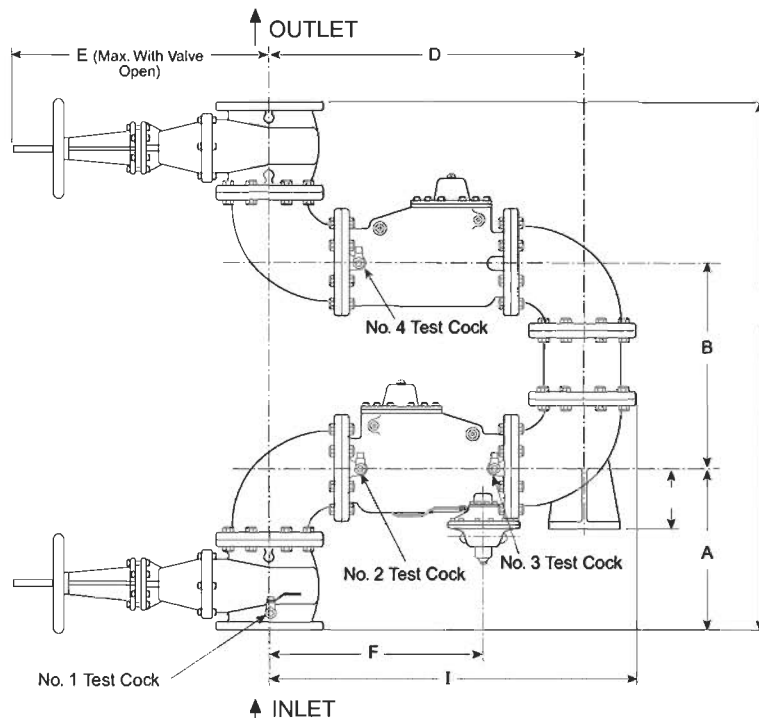


"Rated Flow" Values adopted by the AWWA & the New England Water Works Association. 4" Model RP-4V Flow curve generated by USC's FCCC & HR

## DIMENSIONS

Valve Size	A	B	C	D	E	F	G	H	I	J	K
4"	15.56	23.13	54.25	28.13	22.75	18.16	5.50	16.50	32.63	5.25	9.13
6"	18.56	26.13	63.25	36.13	30.13	23.63	7.00	17.50	41.63	5.25	9.13
8"	20.56	28.13	69.25	43.50	37.75	28.69	8.75	18.75	50.25	5.25	9.13

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



To see diagrams and parts break down of the pressure relief valve, see model RP-2 product pages.