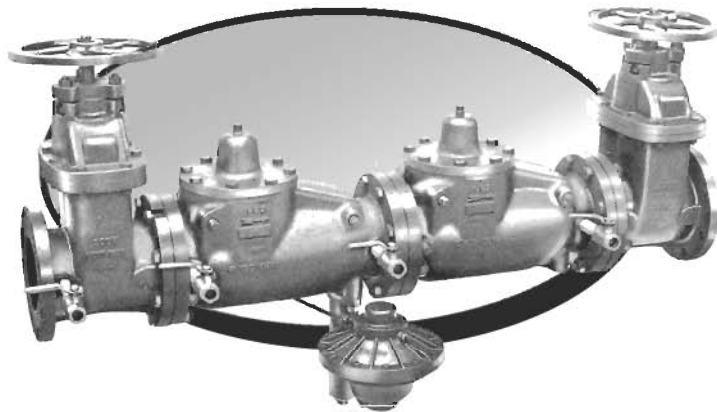




Model RP-1EX Reduced Pressure Principle 2" to 10"



FEATURES

- Serial number needed for parts inquiries
- Replaceable seats
- Springs are not contained
- Detachable RV assembly
- 2" model has bronze body
- 2-1/2" to 10" have fused epoxy coated body

DESCRIPTION

The Cla-Val Model RP-1EX Backflow Preventer protects potable water lines against contamination. This assembly combines protection against backflow with exceptionally low head loss characteristics.

The Model RP-1EX consists of two independently acting toggle lever check valves, an automatic pressure differential relief valve located between the two check valves, two shut-off valves and four test cocks that enable easy field testing. All parts are readily accessible without removing from the line.

DIMENSIONS

Size	2"		2 1/2"	3"	4"	6"	8"	10"
	screwed	flanged						
A	33.66	37.16	42.19	42.19	48.19	61.19	73.94	85.69
B	20.06	20.06	27.06	27.06	30.06	40.06	50.81	59.56
C	7.94	7.94	9.44	9.44	12.56	13.56	14.75	17.06
D Max	5.25	5.25	19.00	19.00	24.75	31.25	40.25	48.50
E	5.88	5.88	4.50	4.50	5.00	6.00	8.00	10.00
F	9.25	9.25	9.25	9.25	14.25	14.25	14.25	14.25
End Details	2-11 1/2" NPT ANSI screwed B 16.24				125 Lb ANSI B 16.21			

OPERATION

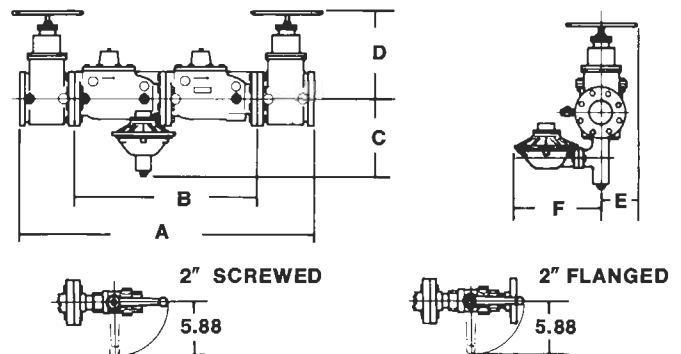
Under a normal flow condition, both check valves are open and the pressure differential relief valve is closed. During normal flow and at the cessation of flow, the pressure in the zone between the two check valves is maintained at least 2 psi less than the inlet pressure.

Under a no flow condition, both check valves are closed. When supply pressure drops to 2 psi above the "zone" pressure, then the relief valve discharges as necessary to maintain the "zone" pressure at 2 psi below supply pressure. When supply pressure drops below 2 psi above the "zone" pressure, the relief valve opens fully.



REPAIR KITS - CDHS-20 Relief Valves

- 1-1/4" - Used on 2" & 3" RP-1EX 88418-K
- 2" - Used on 4" to 10" RP-1EX 88419-H



MODEL RP-1EX

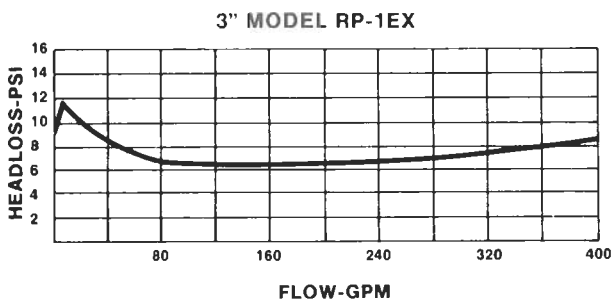
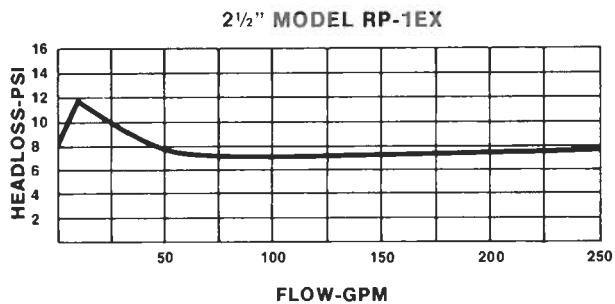
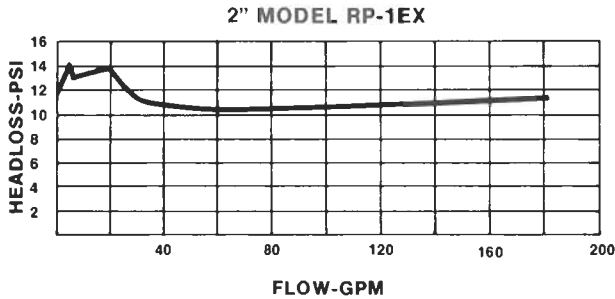
SPECIFICATIONS

End Detail: 125 ANSI B16.1
 Maximum working pressure: 175 PSI
 Hydrostatic test pressure: 350 PSI
 Temperature range: up to 110°F
 Fluid: Water

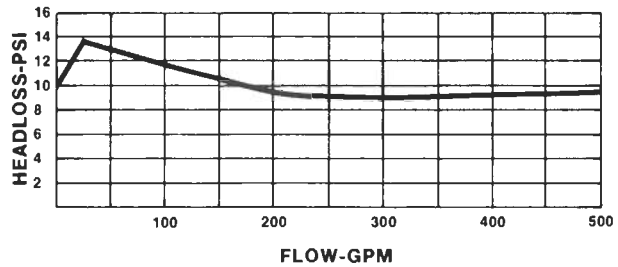
MATERIALS

Body: Bronze ASTM B-61 (2")
 Cast Iron interior epoxy coated (2-1/2" up)
 Main valve trim: Bronze ASTM B-61
 Differential relief valve: Bronze ASTM B-61
 with stainless steel 316 trim

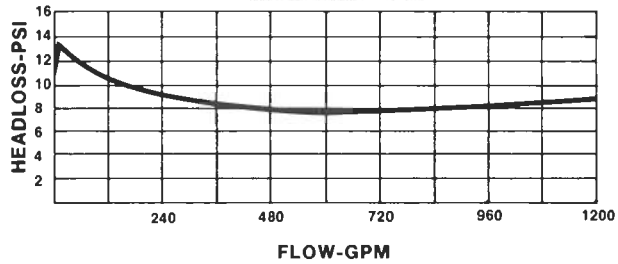
FLOW CURVES



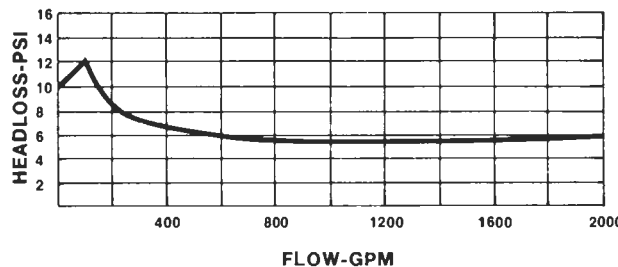
4" MODEL RP-1EX



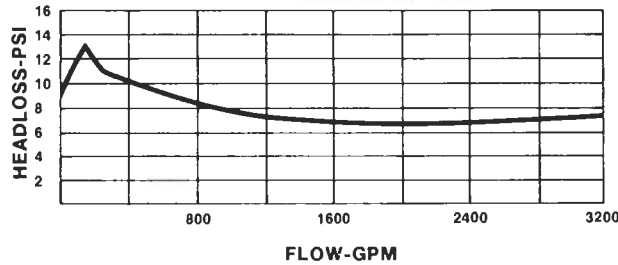
6" MODEL RP-1EX



8" MODEL RP-1EX



10" MODEL RP-1EX



To see diagrams and parts break down of the pressure relief valve, see model RP-1 product pages.