

Reduced Pressure Zone Backflow Preventer Type RP500 (Lead Free)

DESCRIPTION

A Cash-Acme RP500 device reduced pressure backflow preventer provides maximum protection against back-pressure and back-siphonage backflow. The RP500 consists of two independently acting check valves and a relief valve. The RP500 and ball valves are constructed from lead free and corrosion resistant internal components. The Cash-Acme RP500 is designed to streamline the number of working parts, making maintenance easy. The unique top-entry cover allows quick access to both check valves and relief valve. These Cash-Acme reduced pressure backflow preventers are available in 1/2" thru 2" sizes. The RP500 is designed for maximum system pressures to 150 psi. The maximum operating temperature is 110°F (43°C).

FEATURES AND BENEFITS

Top-entry, single access cover:

Provides easy access and servicing for valve internals.

Short lay length:

Ideal for installation in small spaces.

Distinct, unique check assemblies:

Eliminates installing checks in wrong positions.

Internals composed of corrosion resistant materials:

Longer life for the valve.

Each repair kit includes seat rings:

Provides for easy, inexpensive service and reduces parts inventory.

Body, test cocks, and shut-off valves composed of lead free materials:

Designed to meet lead free standards.

Check valve seats composed of high quality Acetal material:

Seats will last longer and hold up to extreme conditions.



SPECIFICATION

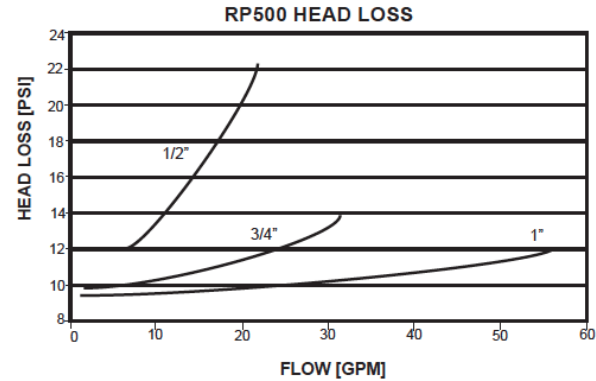
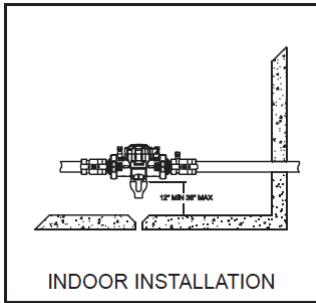
Reduced Pressure Zone Backflow Preventer shall protect against backflow by either back-pressure or back-siphonage from a cross-connection between potable water systems and substances that are high health hazards.

The device shall be constructed from lead free materials. It shall consist of two (2) mechanically independent, spring loaded, center stem guided check valves. It shall also have a hydraulically dependent differential pressure relief valve with the sensing passage set in an integral lead free body, with a single access cover. The assembly shall have four (4) vertical test cocks and two (2) shut-off valves which are quarter-turn, full-port, resilient seated and ball type.

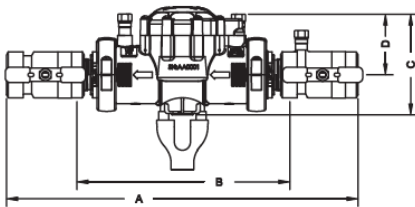
The relief valve shall have removable stainless steel seat ring. The check valves shall be held into place by a spacer and the check valve assemblies shall be non-interchangeable with EPDM discs.

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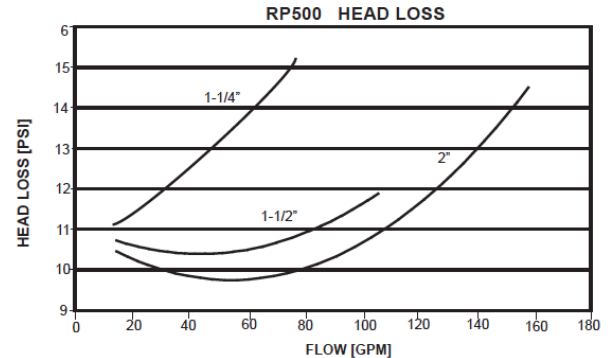
TYPICAL INSTALLATION



SPECIFICATION DATA



Size	A	B	C	D	Width	Wgt with GV	Wgt less GV
Inch	Inch	Inch	Inch	Inch	Inch	lbs	lbs
1/2	11	7-3/4	4-1/2	2-5/8	3-1/2	2.87	1.75
3/4	11-3/4	7-3/4	4-1/2	2-5/8	3-1/2	3.385	1.75
1	13	7-3/4	4-1/2	2-3/4	3-1/2	4.505	1.76
1-1/4	18-3/4	13	6-1/2	3-7/8	6	9.10	5.76
1-1/2	19-3/8	13	6-1/2	3-7/8	6	10.88	5.69
2	20-5/8	13	6-1/2	3-7/8	6	14.29	5.67



Performance:

Max. working pressure 150 psi
 Max. working temperature 110°F (43°C)
 Hydrostatic Test Pressure 300 psi

Materials:

Valve Body POLYAMIDE 6.50% GLASS REINFORCED
 Access Cover NYLON
 Check Valves POLYAMIDE 6.50% GLASS REINFORCED
 Discs NYLON
 Springs Acetal
 EPDM
 Stainless Steel

AVAILABLE CONNECTIONS

1/2", 3/4", 1", 1-1/4", 1-1/2" and 2"

CERTIFICATIONS

ASSE 1013, NSF 61, AWWA C511, CSA B64.4, USC

RATED FLOW (Established by Approval Agencies)

Pipe size	Capacity thru Schedule 40 Pipe (GPM)			
	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
3/4"	8	12	17	25
1"	13	20	27	40
1-1/4"	23	35	47	70
1-1/2"	32	48	63	95
2"	52	78	98	157