

# Reduced Pressure Zone Backflow Preventer Type RP100 & RP200 (bronze)

## DESCRIPTION

A Cash Acme RPZ device (reduced pressure backflow preventer) provides maximum protection against back-pressure and back-siphonage. The RPZ consists of two independently acting check valves and a relief valve. The RPZ and ball valves are constructed from bronze and corrosion resistant internal components. The Cash Acme RPZ 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 RPZ is designed for maximum system pressures to 175 psi. The maximum operating temperature is 180°F (82°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 bronze:

*Meets existing lead leaching standards.*

Meets all specifications of ASSE, AWWA and all other national approvals:

*Inspector friendly peace of mind!*



## 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.

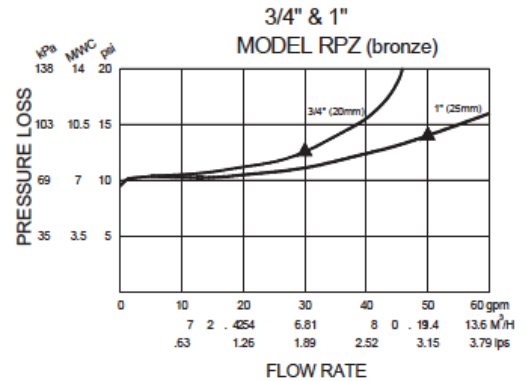
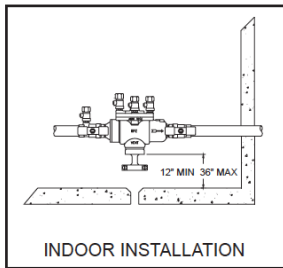
The device shall be constructed from bronze. It shall consist of two (2) mechanically independent, spring loaded, center stem guided check valves. It shall also have a hydraulically dependent differential pressure relief valve with the sensing passage set in an integral cast bronze body, with a single 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 stainless steel clips and the check valve assemblies shall be non-interchangeable with silicone discs.

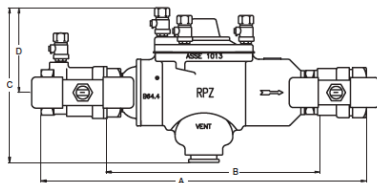


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## TYPICAL INSTALLATION



## SPECIFICATION DATA



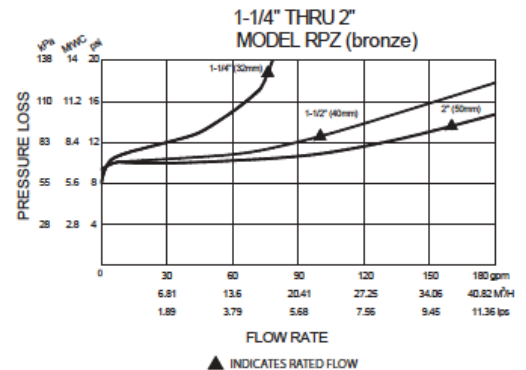
Type	Size	Part #	A	B	C	D	Width	Wgt with GV	Wgt less GV
	Inch		Inch	Inch	Inch	Inch	Inch	lbs	lbs
RP200	1/2	22984	9-1/4	5-1/2	5-21/32	3-5/8	3-5/32	4.5	3.25
RP200	3/4	22985	9-3/4	5-1/2	5-21/32	3-5/8	3-5/32	5	3.25
RP100	3/4	22986	12-1/4	8-1/4	6-1/2	3-5/8	3-5/8	8.4	7
RP100	1	22987	13	8	6-1/2	3-1/2	4-9/16	9.6	8.5
RP100	1-1/2	22989	19	12-1/2	8-1/2	8	5-1/8	27.5	20
RP100	2	22990	20	12-1/2	9	5	5-3/4	32	21

### Performance:

Max. working pressure 175 psi  
 Max. working temperature 180°F (82°C)  
 Hydrostatic Test Pressure 350 psi

### Materials:

Valve Body Bronze  
 Access Cover Bronze  
 Polymers Noryl™, NSF listed  
 Elastomers Silicon  
 Springs Stainless steel



### 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

## AVAILABLE CONNECTIONS

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

## CERTIFICATIONS

The Cash Acme® Reduced Pressure Zone Backflow Preventer Type RPZ (bronze) and RPZ II (bronze) are USC and ASSE 1013 listed, AWWA Compliant C511. All major national approvals.