CONBRACO

Project _____

SERIES 4V-500

SPECIFICATIONS

GENERAL SPECIFICATIONS
The pressure vacuum breaker (PVB) shall be designed to prevent contamination of the potable water supply due to back-siphonage, and ideally suited for outdoor applications supplied with continuous pressure such as irrigation equipment, livestock watering systems, swimming pools, etc. The device shall consist of an independently acting check valve and a loaded atmospheric vent valve located between two resilient seated shutoff valves. A vent valve and test cock located upstream and downstream of the check valve, respectively, shall complete the assembly. A canopy shall protect the atmospheric vent from debris.

The air inlet valve of the assembly shall open when the internal pressure is a minimum of 1 psi.

The check valve shall at all times be drip-tight in the normal direction of flow with the inlet pressure at 1 psi and the outlet under atmospheric pressure.

The backflow preventer shall be suitable for supply pressures to 150 psig and water temperatures from 33° to 180° F.

The backflow preventer shall be certified to the following standards: ASSE 1020, CSA Standard B64.1.2, and be listed with IAPMO.

CONBRACO SPECIFICATIONS
The Conbraco 4V-500 Series PVB shall utilize a replaceable check valve cartridge and one piece atmospheric vent - cap/float assembly located between two resilient seated shutoff valves. The cap/float assembly shall contain a relief valve that provides protection against freeze damage. The PVB shall include two test cocks on either side of the check valve, and a canopy to shield the atmospheric vent from debris. All components shall be made of corrosion resistant materials. During normal flow conditions, the check valve shall remain open and the float shall seal on the cap assembly. As the line pressure falls to 1 psig, a spring loaded atmospheric vent valve shall open, breaking the vacuum and thereby preventing back-siphonage. In the event of exposure to freezing temperatures, a spring-loaded relief valve in the float shall protect the PVB body and internal components from damage. As the ambient temperature increases above freezing, the relief valve shall automatically reseat. During normal conditions, the relief valve shall not discharge.

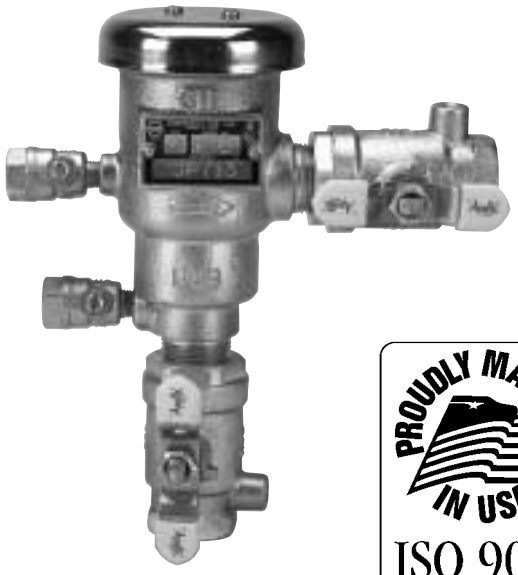
The valve shall be suitable for supply pressures to 150 psig and water temperatures from 33° to 180° F.

The manufacturing facility shall be ISO 9001 registered.

The valve shall be manufactured by CONBRACO INDUSTRIES, INC., Matthews, North Carolina.

Pressure Type Vacuum Breaker

Sizes 1/2” – 3/4” – 1” – 1-1/4” – 1-1/2” – 2”



PROUDLY MADE IN USA

ISO 9001 REGISTERED

FEATURES

- Removable Integral Check Valve
- One Piece Cap/Float Assembly
- Durable
- Economical
- Built-in Freeze Relief Valve in Cap/Float Assembly
- Corrosion Resistant Construction
- Easy Maintenance
- Comes Standard with Apollo® Full Port Ball Valves

APPROVALS

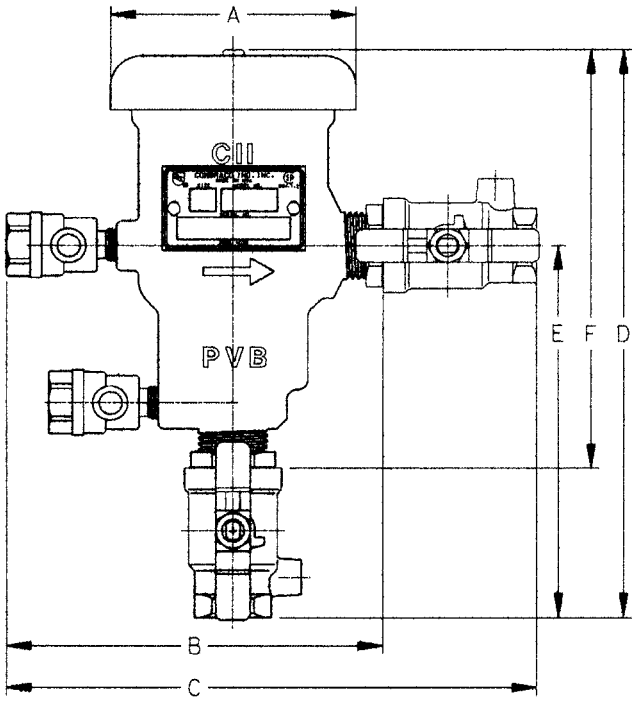
The Conbraco 4V-500 Series PVB shall be certified to the following standards: ASSE 1020, CSA Standard B64.1.2, and be listed with IAPMO. Additionally, the 1/2” – 1” sizes shall be approved under USC’s Foundation for Cross-Connection Control & Hydraulic Research Manual, Section 10.

ASSE CSA USC FOUNDED 1939 IAPMO

BFSS4V50

DIMENSIONS (IN.) – WEIGHTS (LBS.)

Body Size	1/2”	3/4”	1”	1-1/4”	1-1/2”	2”
A	3	3	3	3-3/4	3-3/4	5-1/4
B (Less Ball Valves)	4-25/32	4-25/32	4-25/32	5-3/8	5-3/8	6-5/8
C	6-13/32	6-29/32	7-25/32	8-3/4	9-1/4	10-1/4
D	7-3/32	7-19/32	8-21/32	10-5/8	10-7/8	12-1/8
E	4-5/8	5-1/8	6-3/16	7	7-3/8	7-1/8
F (Less Ball Valves)	5-15/32	5-15/32	5-21/32	6-7/8	7	8-5/8
Test Cocks	1/8x1/4 NPT	1/8x1/4 NPT	1/8x1/4 NPT	1/4x1/4 NPT	1/4x1/4 NPT	1/4x1/4 NPT
Net Wt. (Less Ball Valves)	2.2	2.2	2.0	4.3	4.3	8.8
Net Wt. (With Ball Valves)	3.4	3.9	5.3	9.3	12.2	23.3
Shipping Wt. (Less Ball Valves)	3.2	3.2	3.0	5.5	5.8	10.3
Shipping Wt. (With Ball Valves)	4.4	4.9	6.3	10.5	13.7	24.8



MATERIALS

Ball Valves	Bronze
Body	Bronze
Canopy	Chrome Plated Steel
Cap	Acetal
Check Valve	Acetal
Float	Acetal
Seals	Nitrile
Springs	Stainless Steel
Test Cocks	Brass

ORDERING NUMBERS

4 V - 5 0 X - 0 X

3 - 1/2"	1 - less ball valves
4 - 3/4"	2 - w/ ball valves
5 - 1"	4 - w/ union end ball valves
6 - 1-1/4"	
7 - 1-1/2"	
8 - 2"	