

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 765

Pressure Vacuum Breakers

Size: ½" - 2"

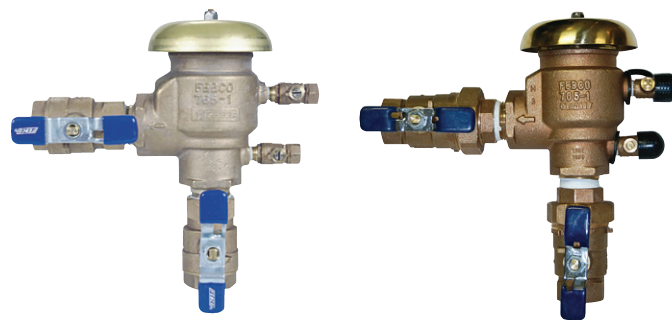
The FEBCO Series 765 Pressure Vacuum Breakers are used to protect against health hazard and non-health hazard backsiphonage conditions in industrial plants, cooling towers laboratories, laundries, swimming pools and lawn sprinkler systems.

Features

- All bronze body for durability. One check valve and an air opening port in one assembly.
- Lightweight poppet seals air opening under minimum flow conditions.
- Simple service procedures. All internal parts serviceable in line from the top of the unit.
- Designed for minimum head loss.
- Engineered plastic bonnet protect valve bodies from freeze damage.
- Optional union end ball valves for easy removal and ultimate freeze protection.
- End Connections – NPT ANSI/ASME B1.20.1

Operation

The FEBCO 765 PVB is designed to be installed to provide protection against backsiphonage of toxic or non-toxic liquids. It consists of a spring loaded check valve which closes tightly when the pressure in the assembly drops below 1psi or when zero flow occurs, plus, an air relief valve that opens to break a siphon when the pressure in the assembly drops to 1psi.



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Specifications

Pressure Vacuum Breaker assemblies shall be installed to withstand pressure for long periods and to prevent backflow of contaminated water into the potable water system in backsiphonage conditions. The Pressure Vacuum Breaker assembly shall consist of a single spring loaded check valve which closes tightly when water flow through the assembly drops to zero, and a single air relief valve that opens to break the siphon when pressure drops to 1psi. The assembly shall include two resilient seated shut-offs and two resilient seated test cocks, considered integral to the assembly. Assemblies must be factory backflow tested. The check valve and air inlet valve must be constructed to allow in-line servicing of the assembly. The valve body shall be constructed of bronze. The check, poppet and bonnet assembly shall be constructed of engineered plastic to protect the valve body from freeze damage.

Pressure Vacuum Breaker assemblies shall be installed a minimum of 12" (300mm) above the highest downstream outlet, and the highest point in the downstream piping. The assembly shall be rated to 150psi working pressure and water temperature from 32°F to 140°F. The assembly shall meet the specifications of the USC FCCC & HR Manual.

Pressure Vacuum Breaker assemblies shall be FEBCO Series 765 or prior approved equal.

⚠ WARNING

It is illegal to use this product in any plumbing system providing water for human consumption, such as drinking or dishwashing, in the United States. Before installing standard material product, consult your local water authority, building and plumbing codes.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Pressure – Temperature

Max. Working Pressure:	150psi (10.3 bar)
Hydrostatic Test Press:	300psi (20.7 bar)
Temperature Range:	32°F to 140°F (0°C to 60°C)

Materials

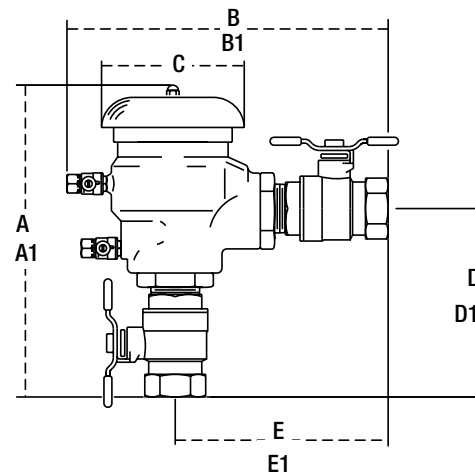
Main Valve Body:	Bronze
Elastomers:	Nitrile

Models

- Union End Ball Valves

Approvals – Standards

- Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.



Applications

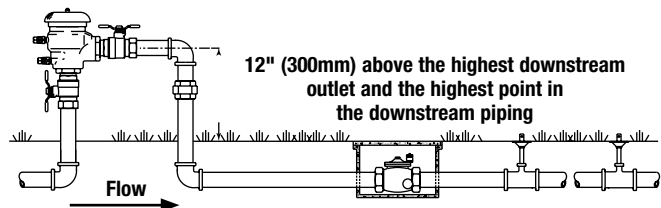
PVB assemblies are used to protect against health hazard and non-health hazard backsiphonage conditions in industrial plants, cooling towers laboratories, laundries, swimming pools and lawn sprinkler systems.

Typical Installation

Pressure Vacuum Breaker assemblies should be installed at least 12" (300mm) above the highest piping and outlet downstream of the assembly to preclude backpressure. Assemblies should be installed so they are easily accessible for maintenance, periodic testing, and where discharge will not be objectionable. They should be protected from freezing. If the assemblies are subject to freezing temperatures, the freeze protection procedures

outlined in "Service Instruction Freeze Protection Model 765" must be followed. Assemblies must not be installed where backpressure could occur.

The discharge pressure shall be maintained above 3.0psi on 1/2" - 1 1/4" sizes and 5.0psi on 1 1/2" - 2" sizes to insure seating of the spring loaded air inlet poppet.



Thermal water expansion and/or water hammer down stream of the backflow preventer can cause pressure increases. Excessive pressure should be eliminated to avoid possible damage to the system and assembly.

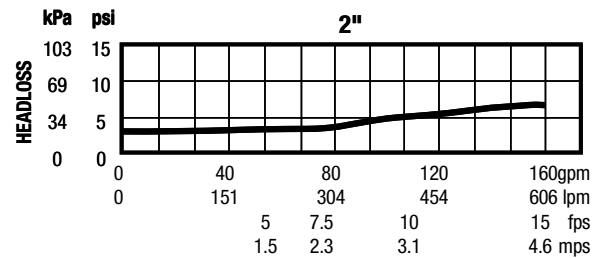
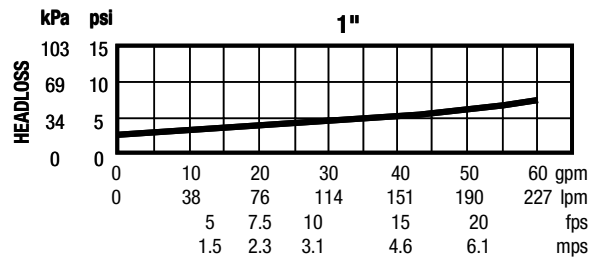
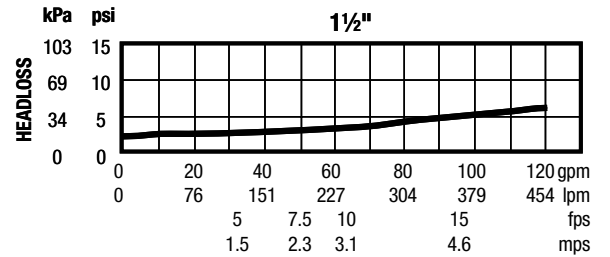
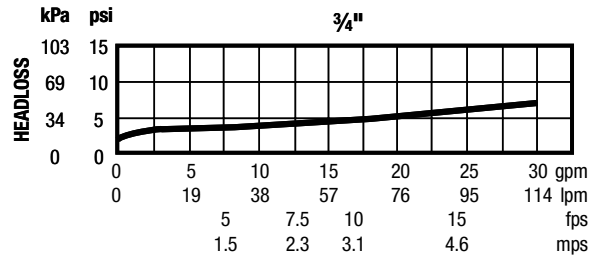
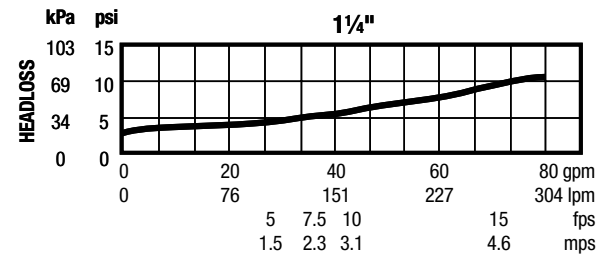
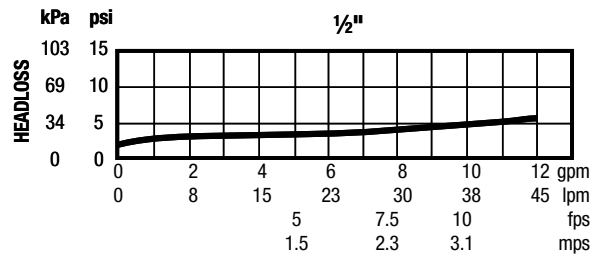
Dimensions – Weights

Size: 1/2" - 2"

SIZE			DIMENSIONS										WEIGHT			
	A	A1 (union)	B	B1 (union)	C	D	D1 (union)	E	E1 (union)							
in.	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kgs.
1/2	6 1/4	159	7	178	6 3/4	172	7 1/2	197	2 1/2	64	3 3/4	95	4 1/2	114	2.6	1.2
3/4	6 1/2	165	7 5/8	187	7	178	7 7/8	200	2 1/2	64	4	102	4 7/8	124	2.9	1.3
1	8 3/4	222	9 5/8	245	9	229	9 15/16	252	4	102	5 1/4	133	6 3/16	157	5.9	2.7
1 1/4	9 3/4	235	10 1/4	260	10	254	11	279	4	102	6 1/4	159	7 1/4	184	7.0	3.2
1 1/2	11 3/4	299	12 7/8	327	11 1/2	292	12 5/8	321	6 1/2	165	7 1/4	184	8 3/8	213	14.8	6.7
2	12 1/2	318	13 3/4	349	12 1/4	311	13 1/2	343	6 1/2	165	8	203	9 1/4	235	16.5	7.5

Note: Weights shown do not include union end ball valves and are approximate.

Capacity



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