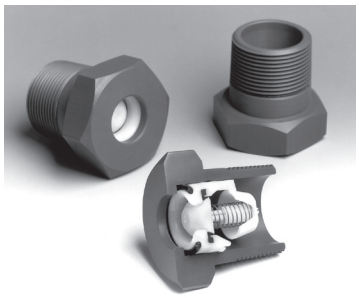
PRESSURE VESSEL FITTINGS

VACUUM BREAKERS



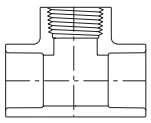
SWT's Machined Vacuum Breakers *are available with a machined PVC, CPVC, or PVDF body and thread or spigot connection. They automatically vent a closed system to atmosphere when a vacuum of approximately 2-inches of water column (5 millibar or 0.07 psi) is present.*

Technical Specifications:

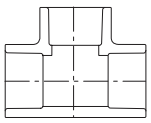
Max. Temperature	PVC: 140ºF	CPVC: 150ºF	PVDF: 150ºF Cont.
Max. Pressure	PVC: 150 psi @ 105ºF	CPVC: 150 psi @ 105ºF	PVDF: 150 psi @ 150ºF

Available Models:

SM-VB4P 1-1/2" MNPT, PVC (see photo)
SM-VB4P-SPIG 1-1/2" Spigot, PVC
SM-VB4P-CPVC 1-1/2" MNPT, CPVC
SM-VB4P-CPVC-SPIG 1-1/2" Spigot, CPVC
SM-VB4P-PVDF 1-1/2" MNPT, PVDF
SM-VB-34SP-CPVC 3/4" Spigot, CPVC
SM-VB-12SP 1/2" Spigot, PVC



MNPT MODELS TEE
SOC X SOC X FPT



SOCKET MODELS TEE
SOC X SOC X SOC

Materials of Construction:

Machined PVC, CPVC, or PVDF body, acetal diaphragm, stainless steel spring, Buna-N seals

Installation:

Install the vacuum breaker at the highest point in the system using a reducing tee.

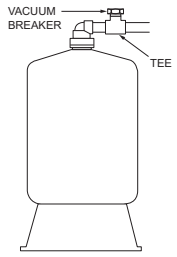
For 1-1/2 inch MNPT models...

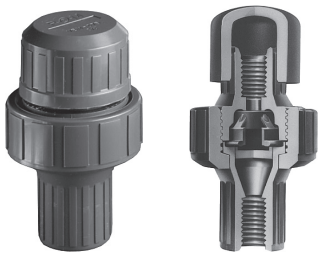
PART NO.	DESCRIPTION
802-015	PVC Tee for 1.5 inch pipe
802-251	PVC Tee for 2 inch pipe
802-291	PVC Tee for 2.5 inch pipe
802-337	PVC Tee for 3 inch pipe
802-419	PVC Tee for 4 inch pipe

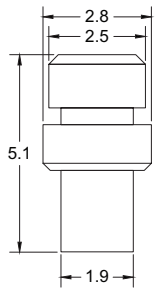
For 1-1/2 inch Socket models...

PART NO.	DESCRIPTION
801-015	PVC Tee for 1.5 inch pipe
801-251	PVC Tee for 2 inch pipe
801-291	PVC Tee for 2.5 inch pipe
801-337	PVC Tee for 3 inch pipe
801-419	PVC Tee for 4 inch pipe

NOTE: Add "C" to end of Part No. for CPVC Tee.







DIMENSIONS SHOWN IN INCHES

Molded 1-inch FNPT Vacuum Breakers (P/N TS-10725) *are designed to protect enclosed tanks from collapse or structural damage during draining and eliminate siphoning of dangerous fluids. There is only one moving part—the patented self-sealing diaphragm. This provides both design simplicity and maximum operating dependability. This normally-closed design seals in the identical location every time, producing a very dependable, long-life seal. These vacuum breakers will begin to break a vacuum at approximately 2-inches of mercury (1.0 psi or 0,07 bar negative pressure). Full vacuum is 29-inches of mercury.*

Technical Specifications:

Maximum Operating Temperature 180ºF (82ºC)
Maximum Operating Pressure . . . . . 100 psi @ 75ºF (6.9 bar @ 24º C)

Materials of Construction:

Molded glass-filled polypropylene body, FKM seals

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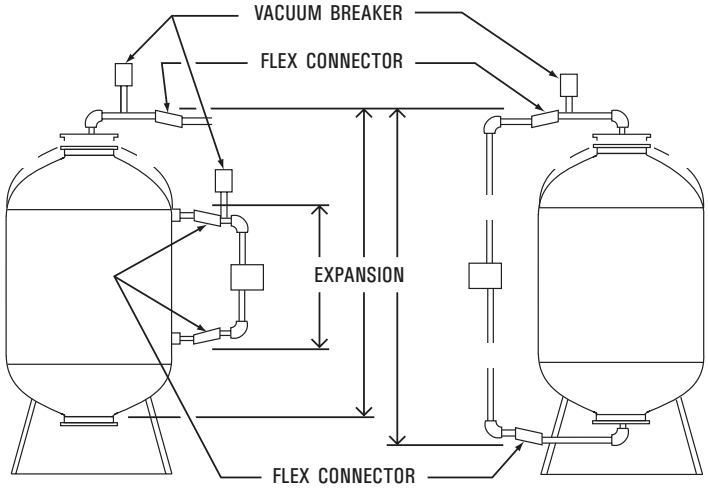
NOVEMBER 2017

VACUUM BREAKERS

Vacuum Protection & Flex Connectors

Fiberglass/composite pressure vessels are rated for an internal negative pressure of 5-inches Hg (17 Pa) vacuum below atmospheric. If negative pressure could ever exceed 5-inches Hg (17 Pa), an adequate vacuum breaker must be installed between the pressure vessel inlet and any valves (see illustration right). For enclosed tank applications, the vacuum breaker should be installed at the highest location in the system plumbing.

System connections to the pressure vessel must accomodate vertical expansion between side, top, and bottom openings. Either flexibility in piping or flex connectors, as shown here, are recommended.



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