

For Health Hazard Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series 800M4QT

Anti-Siphon Pressure Vacuum Breakers

Sizes: ½" – 2" (15 – 50mm)

Series 800M4QT is designed to prevent back-siphonage of contaminated water into a potable water supply. The valve is ideally suitable for irrigation systems, industrial process water systems and other continuous pressure piping system applications where the water enters the equipment at or below its flood rim. The disc float and check valve are suitable for temperatures up to 140°F. The resilient sealing float o-ring and seal check disc are silicone rubber which is resistant to heat, shock and chemical attack.

Features

- Replaceable plastic seat
- Easy maintenance of internal parts
- Acetal bonnet acts as "freeze plug" to prevent body damage
- O-ring bonnet seal for less possibility of fouling
- Silicone seat disc for durability
- Test cocks positioned for easy testing and winterization
- Compact space saving design
- Standardly equipped with tee handle quarter turn ball valve shutoffs ½" – 1" (15 – 25mm). The 1¼" – 2" (32 – 50mm) feature lever handles
- No special tools required for servicing
- Bronze body for durability

Available Models

Suffix:

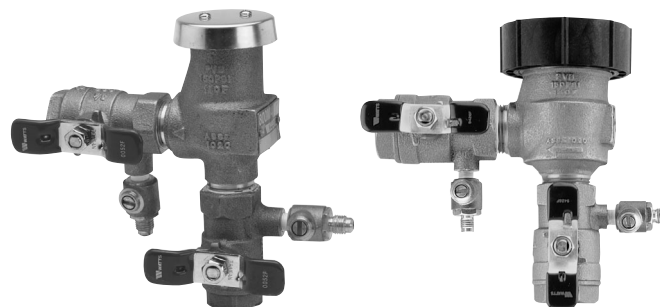
U – union connections (¾" - 1" only)

Specifications

Pressure Vacuum Breakers

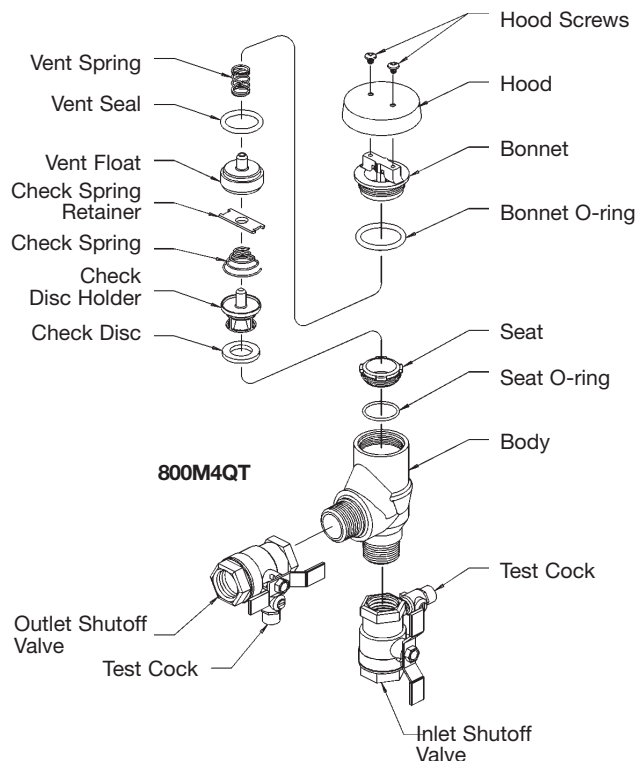
An anti-siphon pressure vacuum breaker shall be installed where indicated on the plans to prevent the back-siphonage of contaminated water. This assembly is not to be used where there is a possibility that a back pressure condition may develop. The assembly will incorporate an acetal bonnet with silicone rubber O-ring seal and silicone rubber seat disc. The valve shall have replaceable seats. Check assembly shall be guided over its full stroke by 'V' notched guides. The assembly shall meet the requirements of ANSI/ASSE Standard 1020.

Watts Regulator Company Series 800M4QT.



800M4QT
½" - ¾" (15 - 20mm)

800M4QT
1" - 2" (25 - 50mm)



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Materials

Springs	Stainless Steel
Bonnet	Celcon
Vent Disc	Silicone Rubber
Disc Holder Float	Polypropylene
Check Valve Disc	Silicone Rubber
Check Valve Seat	Noryl Plastic
Body	Bronze

Pressure - Temperature

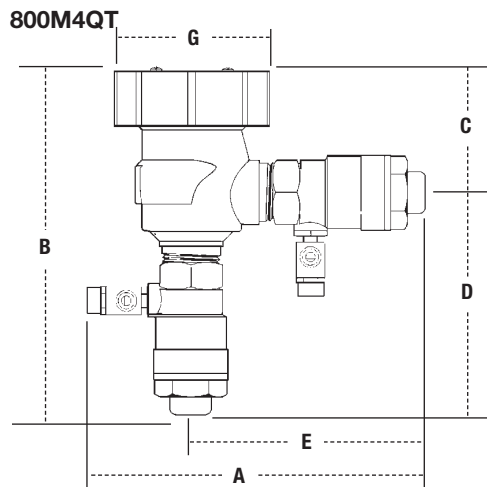
Temperature Range: 33°F to 140° (0.5°C to 60°C)
 Maximum Working Pressure: 150psi (10.3 bar)

Installations

This valve is designed for installation in a continuous pressure potable water supply system 12" above the highest point of the downstream piping. The valve must be installed with the supply connected to the bottom and in a vertical position. Allow adequate space for periodic inspection, servicing or testing. The valve should not be installed in an area where freezing or spillage will cause damage. Adequate drainage/freeze protection must be provided in cold weather applications. 1.5psi (10 kPa) must be exerted against the float spring to seal the float and air inlet. Do not undersize supply and discharge piping.

Important Note: Vacuum breakers are not designed, tested or approved to protect against backpressure backflow or water hammer shock. For protection against backpressure backflow, install Watts 909/009 Reduced Pressure Zone Backflow Preventer. For Protection against water hammer shock install a Watts Series 15 Water Hammer Arrestor utilizing good plumbing practice.

Dimensions – Weights



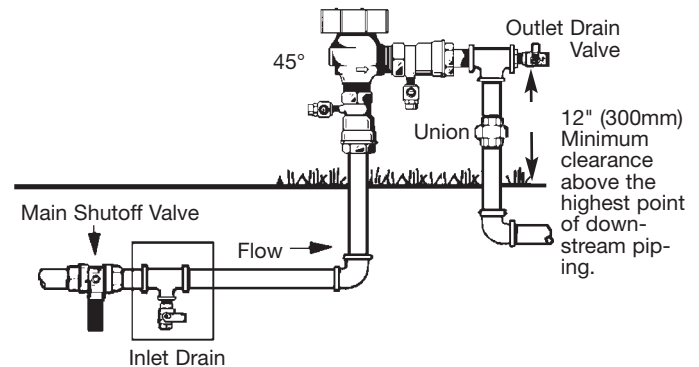
Standards

ANSI, USC Manual Section 10

Approvals



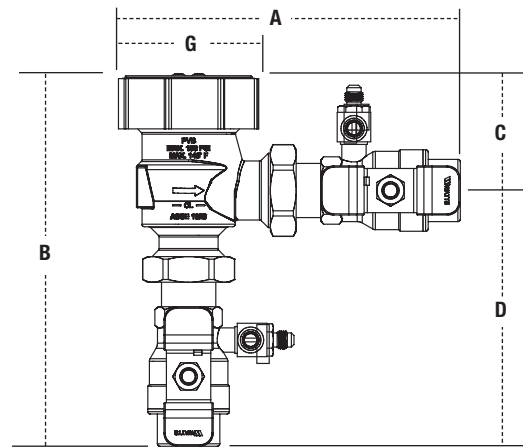
Approved by the foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California, Manual Section 10. (1/2" – 2" (15 - 50mm) 800M4QT only)
 CSA (1/2" – 2" (15 - 50mm) 800M4QT only)



Freeze Protection Guidelines

1. Close main shutoff valve.
2. Open upstream drain, test cocks and isolation ball valves to depressurize line.
3. Purge with air.
4. Leave test cocks and isolation ball valve handles in 45° angle to drain ball valves and prevent casting damage.

U800M4QT

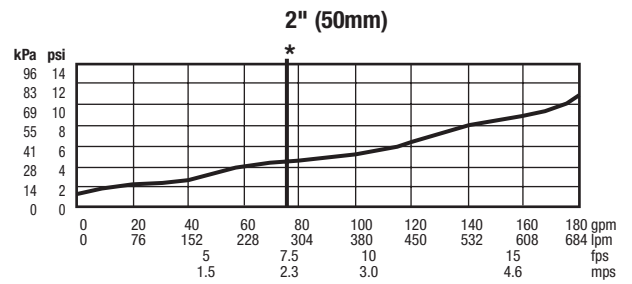
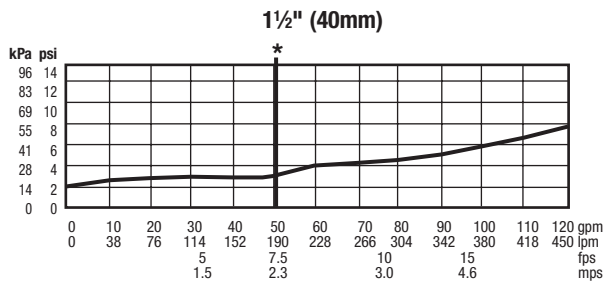
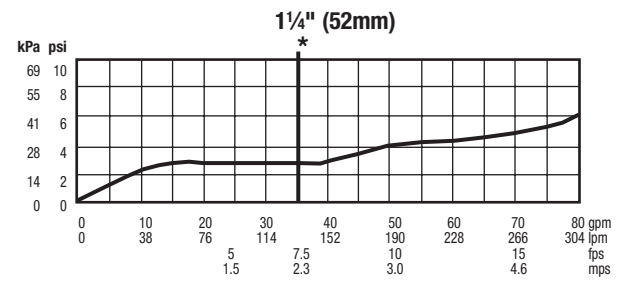
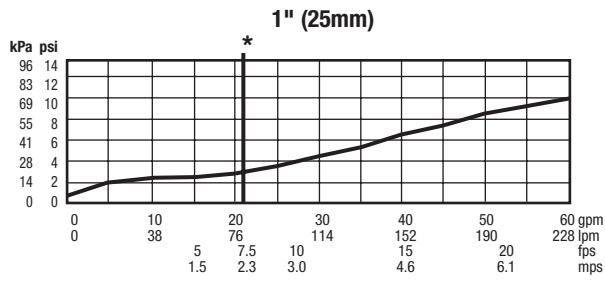
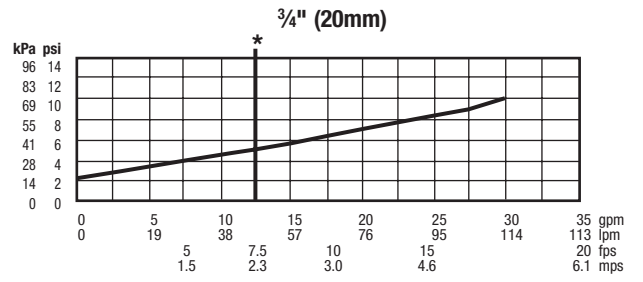
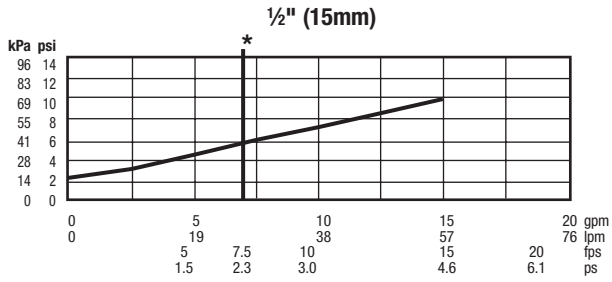


MODEL	SIZE (DN)		DIMENSIONS								WEIGHT					
	in.	mm	A		B		C		D		E		G		lbs.	kg.
800M4QT	1/2	15	6 1/8	156	6 1/4	159	2 9/16	65	3 11/16	94	3 7/8	98	2 1/4	57	4	1.8
800M4QT	3/4	20	6 1/2	165	6 1/2	165	2 9/16	65	3 15/16	100	4 1/8	105	2 1/4	57	4	1.8
800M4QT	1	25	7 1/2	191	7 1/2	191	2 3/4	70	4 3/4	121	4 7/8	124	3 7/16	87	6	2.7
800M4QT	1 1/4	32	8 7/8	225	9	229	3 1/4	83	5 3/4	146	6 1/8	156	5	127	11	5.0
800M4QT	1 1/2	40	9 1/4	235	9 1/2	241	3 1/4	83	6 1/4	159	6 3/8	162	5	127	14	6.3
800M4QT	2	50	10 5/8	270	9 5/8	245	3 1/4	83	6 3/8	162	7	178	5	127	19	8.6
U800M4QT	3/4	20	6 3/8	163	7 1/16	192	2 1/8	55	5 7/16	138	-	-	2 1/4	57	4	1.8
U800M4QT	1	25	8 5/16	211	9	229	2 13/16	71	6 3/16	158	-	-	3 7/16	87	6	2.7

Capacity

As compiled from documented Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California lab tests.

*Typical maximum flow rate (7.5 feet/sec.)



For additional information, visit our web site at: www.watts.com



Backflow Prevention Products

ES-800M4QT 0650



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Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca

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