

Series 800M3

Anti-Siphon Pressure Type Vacuum Breaker

Sizes: 1/2", 3/4" (15, 20 mm)

Installation Instructions

When installed in accordance with these instructions this valve is designed to prevent backsiphonage of polluted water into a potable water supply. The No. 800M3 is ideally suited for irrigation, industrial processing systems and other continuous pressure applications. The valve can be placed in the hot or cold supply lines connected to a potable water supply system where there is no possibility of backpressure.

Examples:

Where there is no danger of freezing and a drain or run-off is available.

Cooling Tower and Process Water	Swimming Pools
Commercial Laundry Machines	Photo Tanks
Chemical Plating Tanks	Heat Exchangers
Large Toilet and Urinal Facilities	Degreasers
Live Stock Water Systems	

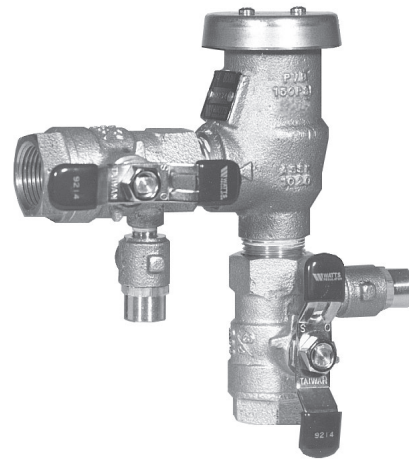
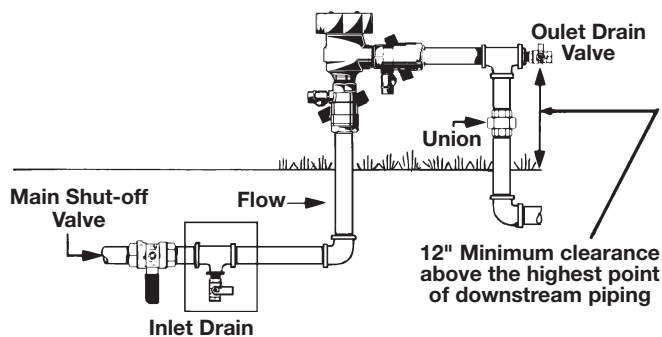
Pressure — Temperature

Working Temperature: 33°F - 140°F (0.5°C - 60°C)

Maximum Pressure: 150psi (10.3 bar)

Minimum Pressure: 15psi (103 kPa)

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 a Watts #909 Reduced Pressure Principle Backflow Preventer. For protection against water hammer shock install Watts #15 Shock Arrestors.



3/4" IAPMO Listed

Operation

When the line pressure drops to 1 psi or below, the spring loaded disc float opens the atmospheric vent and the spring loaded check valve closes the inlet. This prevents back-siphonage. As water flows through the valve, it pushes the check valve open and lifts the disc float which closes the atmospheric vent, thus preventing leakage. The disc float is free floating without close fitting guides which assures freedom from sticking. The durable silicone disc on the disc float and the check valve permits use on hot and cold water lines.

Installation

According to Plumbing Codes this type of valve must be installed as follows:

1. The valve must be installed at least 12" above the highest point on the downstream piping.
2. The valve must be installed with the supply line connected to the bottom or inlet of the valve and in a vertical position where it is available for periodic inspection, servicing and testing.
3. Because of possible water spillage due to valve operation, the valve must not be installed in a concealed location, inside a wall, or where freezing or spillage will cause water damage when a drain is not available.
4. ASSE standard 1020 requires that the atmospheric vent valve remains open until the valve body pressure exceeds 1 lb. Until this pressure is reached, some amount of spillage will occur at the atmospheric vent. In order to minimize this leakage on start-up, close the downstream shut-off valve and open inlet shut-off valve first.
5. Annual inspection of all water system safety and control valves is required and necessary. Regular inspection, testing and cleaning assures maximum life and proper product function.

Freeze Protection

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.

800M# Repair Kits

Check Kits

ORDERING CODE	KIT NO.	SIZES	
		in.	mm
0886042	RK 800M3 CK	1/2 - 3/4	15 - 20

Kit consists of: Check disc assembly (disc and disc holder) Bonnet, O-ring and spring.

Vent Float Kits

ORDERING CODE	KIT NO.	SIZES	
		in.	mm
0886041	RK 800M3 V	1/2 - 3/4	15 - 20

Kit consists of: Float vent disc assembly (vent float , seal and spring) and Bonnet O-ring.

Bonnet Assembly Kits

ORDERING CODE	KIT NO.	SIZES	
		in.	mm
0886040	RK 800M3 B	1/2 - 3/4	15 - 20

Kit consists of: Bonnet, Bonnet O-ring and Vent spring.

Rubber Parts Kits

ORDERING CODE	KIT NO.	SIZES	
		in.	mm
0886039	RK 800M3 RT	1/2 - 3/4	15 - 20

Kit consists of: Vent disc, Check disc and Bonnet O-ring.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**



Backflow Prevention Products



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