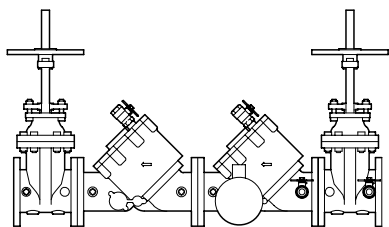


Model 975BMS

Reduced Pressure Principle Assembly
with Integral Battery Operated Monitor Switch
(Patent No. 5,425,493)

**FEATURES**

Sizes: ☐ 2½" ☐ 3" ☐ 4" ☐ 6" ☐ 8" ☐ 10"

Maximum working water pressure 175 PSI
Maximum working water temperature 140°F
Hydrostatic test pressure 350 PSI
End connections Flanged ANSI B16.1
Class 125

UL® recognized switch factory installed, tested and ready for immediate installation

OPTIONS

(Suffixes can be combined)

- ☐ - with NRS gate valves (standard)
- ☐ L - less shut-off valves
- ☐ OSY - with OS & Y gate valves
- ☐ FS - with cast iron "Y" type flanged strainer
- ☐ FSC - with cast iron "Y" type flanged strainer, fusion epoxy coated

ACCESSORIES

- ☐ Air gap (Model AG)
- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model WXTP)
- ☐ Soft seated check valve (Model 40)

APPLICATION

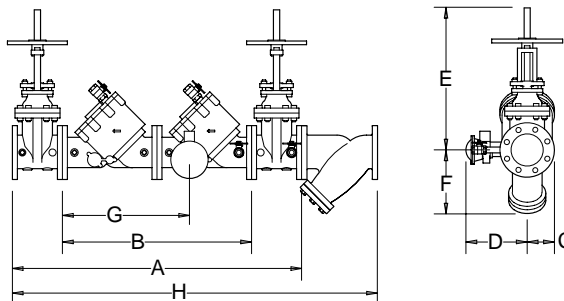
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists. The 975BMS is ideal for use in mechanical rooms, basements and enclosures where undetected relief valve discharge could potentially cause water damage. It is equipped with a output phone jack for remote notification via existing on-site alarm systems or phone dialers.

STANDARDS COMPLIANCE

- ☐ ASSE® Listed 1013
- ☐ IAPMO® Listed
- ☐ AWWA Compliant
- ☐ CSA® Certified
- ☐ Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California

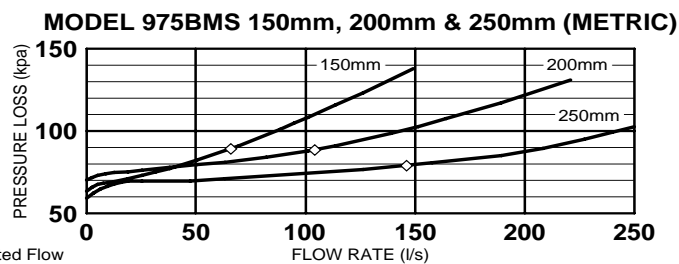
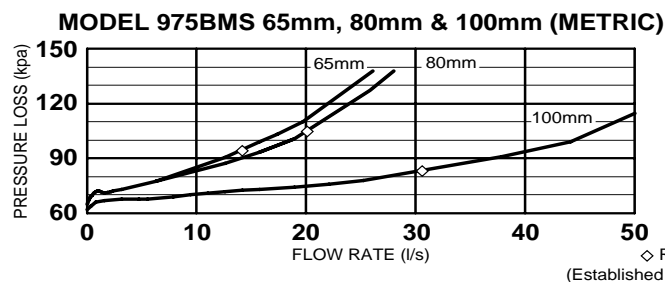
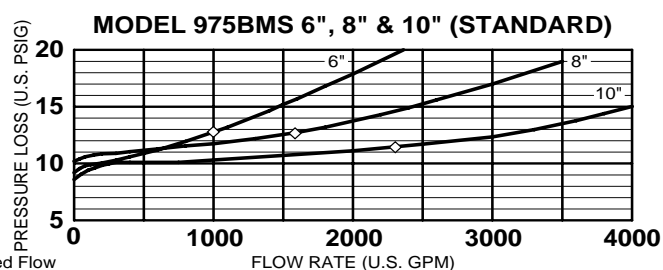
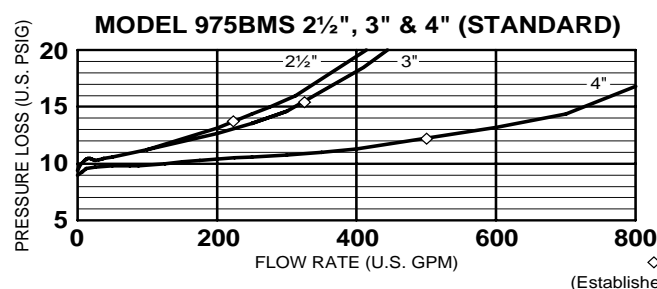
MATERIALS

Main valve body Cast Iron ASTM A126 Class B
Access covers Cast Iron ASTM A126 Class B
Coatings FDA Approved Epoxy finish
Internals Stainless Steel, 300 Series
Cast Bronze ASTM B 584
Brass ASTM B-16
Elastomers EPDM (FDA approved)
Buna Nitrile (FDA approved)
Polymers Delrin™, NSF Listed
Springs Stainless steel, 300 series

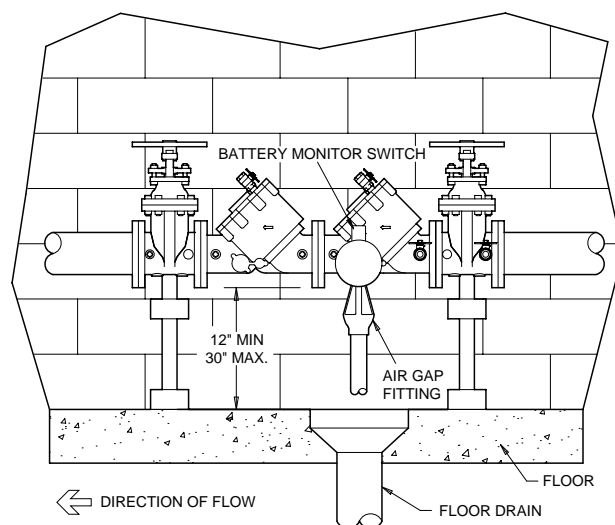
**DIMENSIONS & WEIGHTS (do not include pkg.)**

MODEL SIZE	DIMENSIONS (INCHES)										WEIGHT (LBS)		
	A	B WITHOUT GATE VALVES	C	D	E OS&Y GATE VALVE OPEN	E OS&Y GATE VALVE CLOSED	E NRS GATE VALVE	F	G	H	WITHOUT GATE VALVES	WITH NRS GATE VALVES	WITH OS&Y GATE VALVES
2 1/2"	37.12	22.00	4.00	10.00	16.00	14.00	13.00	8.38	16.00	47.00	91.0	193.0	201.0
3"	38.12	22.00	4.00	10.00	20.00	16.00	13.00	9.25	16.00	48.75	91.0	215.0	225.0
4"	50.25	32.12	5.00	10.00	23.00	19.00	15.00	12.50	22.00	65.25	232.0	406.0	408.0
6"	62.00	41.00	6.00	11.00	31.00	25.00	19.00	14.00	30.00	80.00	526.0	794.0	802.0
8"	71.12	48.00	7.50	12.00	39.00	30.00	24.00	17.75	31.00	95.25	837.0	1261.0	1265.0
10"	84.12	58.00	9.00	14.00	46.00	36.00	27.00	21.25	41.00	113.75	1600.0	2325.0	2325.0

FLOW CHARACTERISTICS



Relief Valve Discharge Rate@ BMS Alarm Signal (Factory Set)	
Pipe size	Inlet Pressure
	50 psi
2 1/2"-6"	15 gpm
8"-10"	18 gpm



TYPICAL INSTALLATION

TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturer's instructions and the latest edition of the Uniform Plumbing Code. Unless otherwise specified, the assembly shall be mounted at a minimum of 12" (305mm) and a maximum of 30" (762mm) above adequate drains with sufficient side clearance for testing and maintenance. Note: If installed outdoors, a protective enclosure is recommended. The installation shall be made so that no part of the unit can be submerged.

SWITCH OPERATION

Once the assembly is installed and the system pressurized, the switch (BMS) can be turned on. In the event of a backflow condition, the relief valve closes an electrical contact and a high pitched alarm begins sounding, signalling that a relief valve discharge is occurring. To prevent false alarms due to intermittent line pressure fluctuations, the BMS is equipped with a 10-second delay. An LED blinks every 40 seconds as long as the battery is sufficiently charged to power the BMS. Remote alarm hook-up via phone jack (RJ11) internal 1 amp/125 volt switch closure and user-supplied external wiring and alarm panel connection. Contact factory for alarm options and details.

SPECIFICATIONS

The reduced pressure principle backflow preventer shall be rated to 140° F and supplied with full port gate valves. The first and second checks shall be accessible for maintenance without removing the relief valve or the entire device from the line. The monitor switch shall be easily deactivated for maintenance of the entire assembly and the battery shall be accessible for replacement. If installed indoors, the installation shall be supplied with an air gap adapter and piped to a properly sized drain. The reduced pressure principle backflow preventer shall be a WILKINS Model 975BMS.