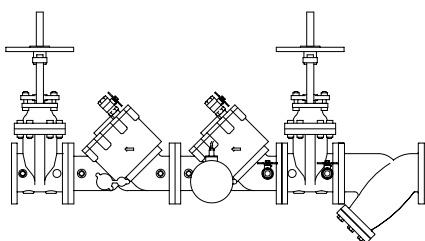


### Model 975MS

Reduced Pressure Principle Valve Assembly  
with Integral Relief Valve Monitor Switch  
(Patent No. 5,425,393)



#### FEATURES

Sizes: ☐ 2 1/2" ☐ 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  
Switch contact rating 3A @ 24VAC

UL® recognized switch factory installed. Supplied with normally open contacts, weather resistant housing & wiring leads. Ready for immediate installation to appropriate electrical circuit.

#### OPTIONS

(Suffixes can be combined)

- ☐ - with NRS gates 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 inside and out

#### ACCESSORIES

- ☐ Air gap (Model AG)
- ☐ Repair kit (rubber only)
- ☐ Thermal expansion tank (Model WXTP)

#### APPLICATION

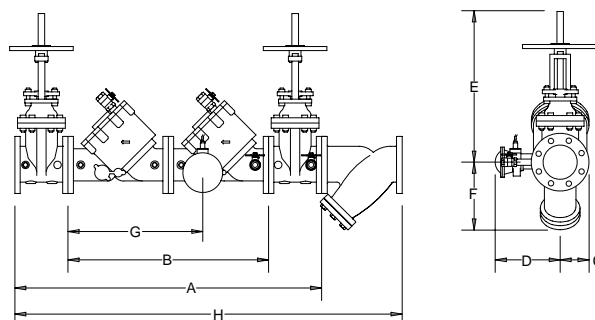
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

#### STANDARDS COMPLIANCE

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

#### MATERIALS

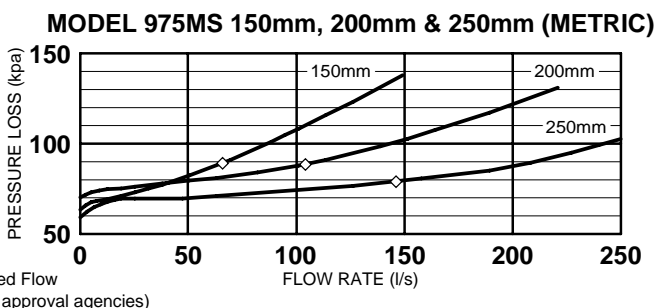
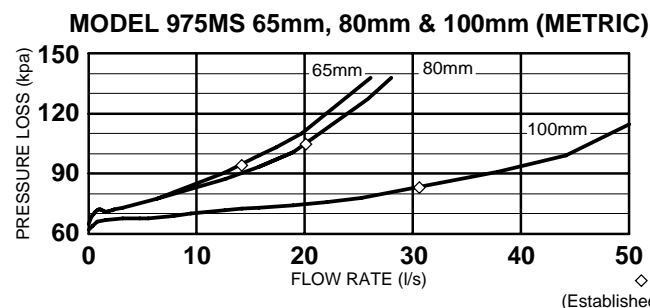
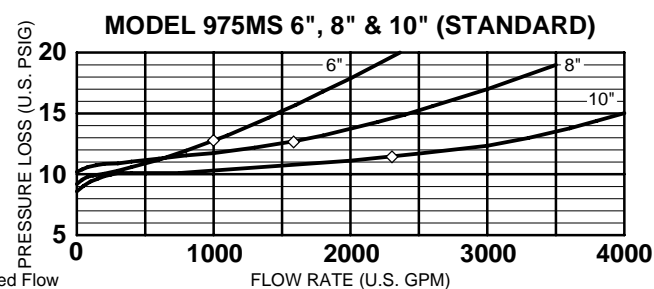
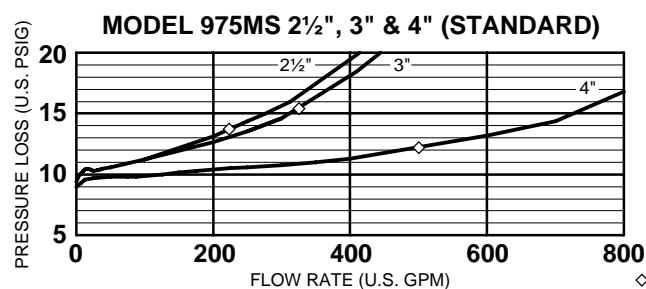
Main valve body Cast Iron ASTM A 126 Class B  
Access covers Cast Iron ASTM A 126 Class B  
Coatings FDA Approved Epoxy finish  
Fasteners Stainless Steel, 300 Series  
Elastomers EPDM (FDA Approved)  
Polymers Delrin™, NSF Listed  
Springs Stainless steel, 300 series  
Switch cover Aluminum



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

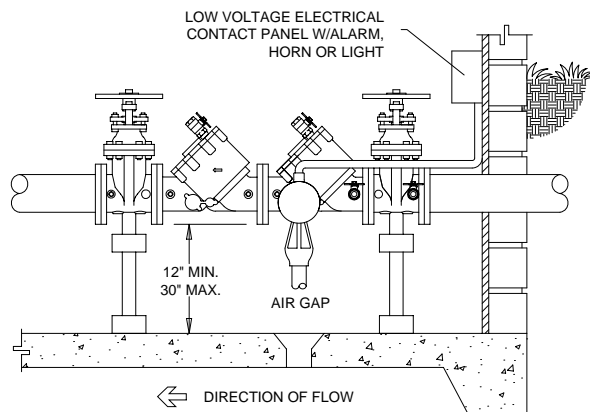
MODEL SIZE	DIMENSIONS (INCHES)										WEIGHT (LBS)		
	A	B WITHOUT GATE VALVES	C	D	E OS&Y GATE VALVE OPEN	E OS&Y GATE VALVE CLOSED	E NRS GATE VALVE	F	G	H	WITHOUT GATE VALVES	WITH NRS GATE VALVES	WITH OS&Y GATE VALVES
2 1/2"	37.12	22.00	4.00	10.00	16.00	14.00	13.00	8.38	16.00	47.00	91.0	193.0	201.0
3"	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



## 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. The installation shall be made so that no part of the unit can be submerged.



INDOOR INSTALLATION

Capacity thru Schedule 40 Pipe (GPM)

Pipe size	5 ft/sec	7.5 ft/sec	10 ft/sec	15 ft/sec
2 1/2"	75	112	149	224
3"	115	173	230	346
4"	198	298	397	595
6"	450	675	900	1351
8"	780	1169	1559	2339
10"	1229	1843	2458	3687

## SWITCH OPERATION

In the event of a backflow condition, the relief valve closes an electrical contact on the MS switch, signaling that a possible relief valve discharge may be occurring. The 975MS is ideal for use in mechanical rooms, basements and enclosures where undetected relief valve discharge could potentially cause water damage.

## SPECIFICATIONS

The reduced pressure principle backflow preventer shall be ASSE® 1013 Listed, and supplied with full port gate valves and an integral relief valve monitor switch. The main body and access covers shall be epoxy coated grey cast iron (ASTM A 126 Class B), the seat ring and check valve shall be cast bronze (ASTM B 584), the stem shall be stainless steel (ASTM A 276) and the seat disc elastomers shall be EPDM. The checks shall be accessible for maintenance without removing the device from the line. The reduced pressure principle backflow preventer shall be a WILKINS Model 975MS.