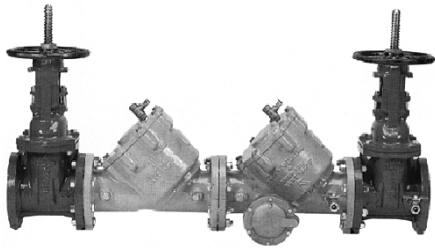


## SPECIFICATION SUBMITTAL SHEET



### FEATURES

Sizes:  2½"  3"  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)
- QT-SET Quick Test Fitting Set

### APPLICATION

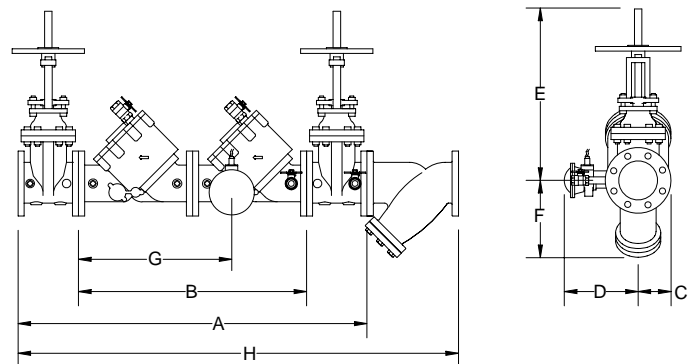
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists.

### STANDARDS COMPLIANCE

- ASSE® 1013 Listed
- IAPMO® Listed
- CSA® Certified
- AWWA Compliant C511
- Approved by the Foundation for Cross Connection Control and Hydraulic Research at the University of Southern California

### 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
	Cast Bronze ASTM B 584
Elastomers	EPDM (FDA Approved)
	Buna Nitrile (FDA Approved)
Polymers	Delrin™, NSF Listed
Springs	Stainless steel, 300 series
Switch cover	Aluminum

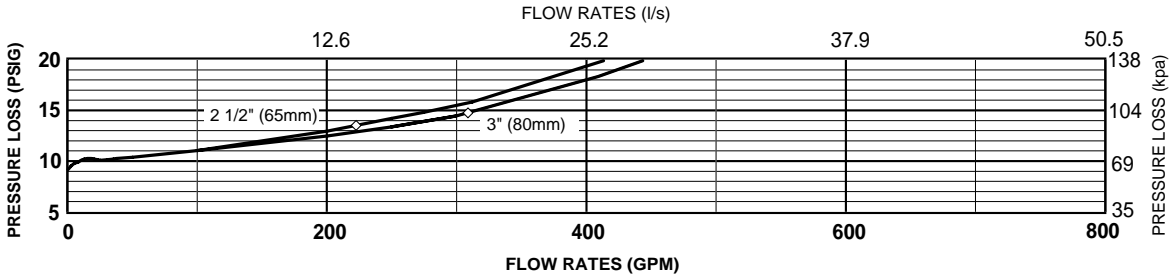


### DIMENSIONS & WEIGHTS (do not include pkg.)

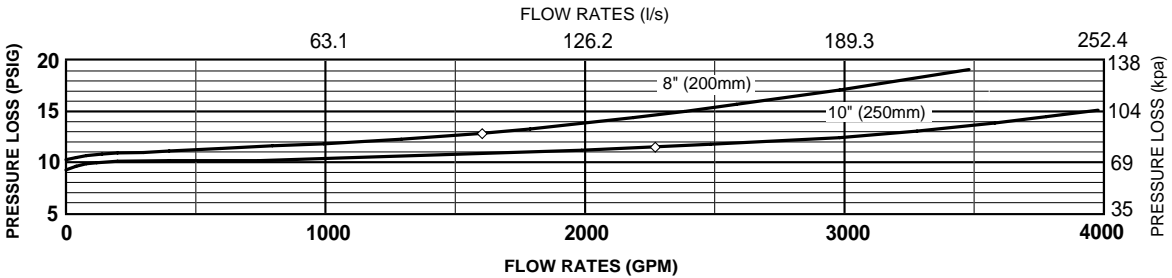
MODEL SIZE	DIMENSIONS (approximate)																		WEIGHT								
	A		B WITHOUT GATE		C		D		E OS&Y GATE VALVE		E OS&Y GATE VALVE		E NRS GATE VALVE		F		G		H		WITHOUT GATE VALVES		WITH NRS GATE VALVES		WITH OS&Y GATE		
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
2 1/2	65	37 1/8	943	22	559	4	102	10	254	16 3/8	416	13 7/8	352	11 3/8	289	8 3/8	213	16	406	47	1194	91	41.3	193	87.6	201	91.3
3	80	38 1/8	968	22	559	4	102	10	254	18 7/8	479	15 5/8	397	12 3/8	314	9 1/4	235	16	406	48 3/4	1238	91	41.3	215	97.6	221	100.3
8	200	71 1/8	1807	48	1219	7 1/2	191	12	305	37 3/4	959	29 1/4	743	22 1/2	572	17 3/4	451	31	787	95 1/4	2419	837	380	1289	585.2	1313	596.1
10	250	84 1/8	2137	58	1473	9	229	14	356	45 3/4	1162	35 3/8	899	26 1/2	673	21 1/4	540	41	1041	113 3/4	2889	1400	635.6	2160	980.6	2118	961.6

## FLOW CHARACTERISTICS

### MODEL 975MS/975BMS 2 1/2" & 3" (STANDARD & METRIC)



### MODEL 975MS/975BMS 8" & 10" (STANDARD & METRIC)

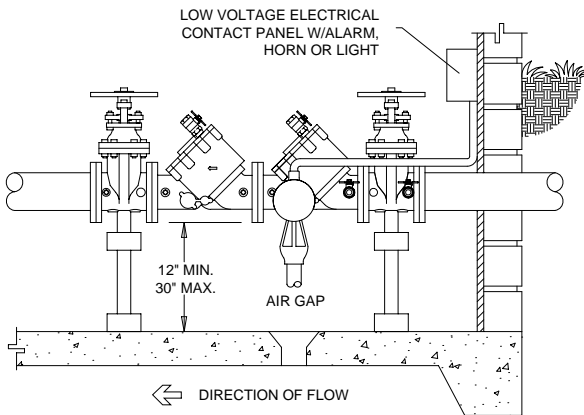


◇ Rated Flow (Established by approval agencies)

## 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.

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



**INDOOR INSTALLATION**

## 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.