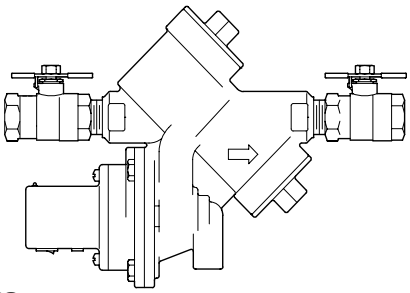
WILKINS
A ZURN COMPANY

# Model 975XLBMS

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



## FEATURES

Sizes: ❑ 3/4" ❑ 1" ❑ 1¼" ❑ 1½" ❑ 2"

| | |
|---|---|
| Maximum working water pressure | 175 PSI |
| Maximum working water temperature | 180°F |
| Hydrostatic test pressure | 350 PSI |
| End connections | Threaded ANSI B1.20.1 |

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

## OPTIONS

(Suffixes can be combined)

- ❑ - with full port QT ball valves (standard)
- ❑ L - less ball valves
- ❑ U - with union ball valves
- ❑ S - with bronze "Y" type strainer

## ACCESSORIES

- ❑ Air gap (Model AG)
- ❑ Repair kit (rubber only)
- ❑ Thermal expansion tank (Model WXTP)
- ❑ Soft seated check valve (Model 40)
- ❑ Shock arrester (Model 1250)
- ❑ Central alarm system connection kit
- ❑ Wireless alarm system kit
- ❑ Security auto dialer

## APPLICATION

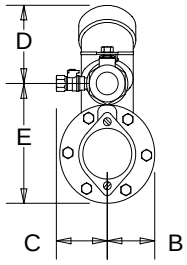
Designed for installation on potable water lines to protect against both backsiphonage and backpressure of contaminated water into the potable water supply. Assembly shall provide protection where a potential health hazard exists. The 975XLBMS is ideal for use in mechanical rooms, basements and enclosures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

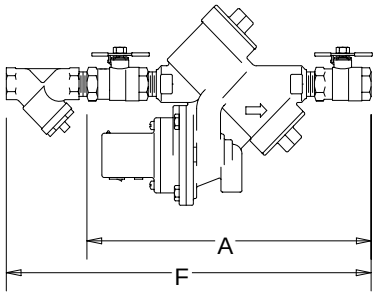
## STANDARDS COMPLIANCE

- ❑ 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 Bronze ASTM B 584 |
| Access covers | Cast Bronze ASTM B 584 |
| Internals | Stainless Steel, 300 Series |
| Elastomers | Silicone (FDA approved)<br>Buna Nitrile (FDA approved) |
| Polymers | Noryl™, NSF Listed |
| Springs | Stainless steel, 300 series |
| Switch cover | ABS; UV resistant |



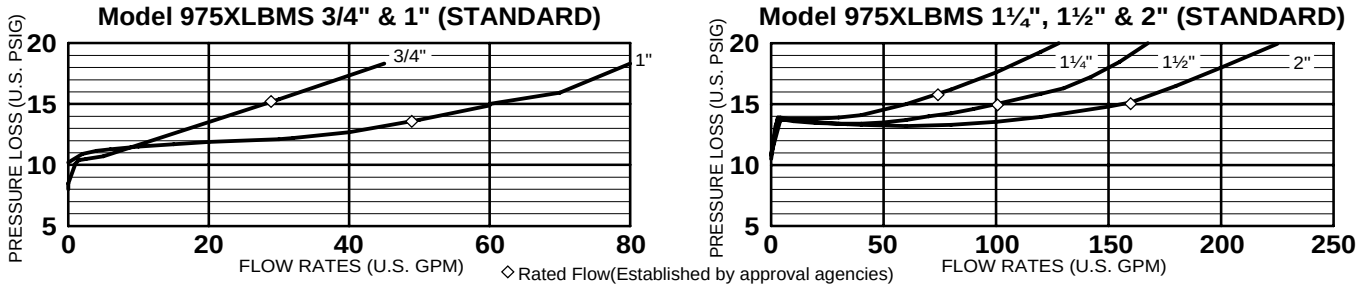

## DIMENSIONS & WEIGHTS (do not include pkg.)

| MODEL SIZE | DIMENSIONS (INCHES) | | | | | | | | WEIGHT (LBS) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | A UNION BALL VALVES | A LESS BALL VALVES | B | C | D | E | F | LESS BALL VALVES | WITH BALL VALVES |
| 3/4" | 12.00 | 14.00 | 7.75 | 2.10 | 3.00 | 3.50 | 5.00 | 15.75 | 10.0 | 12.0 |
| 1" | 13.00 | 14.25 | 7.75 | 2.10 | 3.00 | 3.50 | 5.00 | 17.75 | 11.0 | 14.0 |
| 1 1/4" | 17.00 | 19.00 | 10.92 | 2.70 | 3.50 | 5.00 | 6.70 | 22.00 | 22.0 | 26.0 |
| 1 1/2" | 17.40 | 20.00 | 10.92 | 2.70 | 3.50 | 5.00 | 6.70 | 23.14 | 22.0 | 26.0 |
| 2" | 18.50 | 21.25 | 10.92 | 2.70 | 3.50 | 5.00 | 6.70 | 25.50 | 22.0 | 33.0 |



DOCUMENT NO. BF-975XLBMS | REV. 7/99

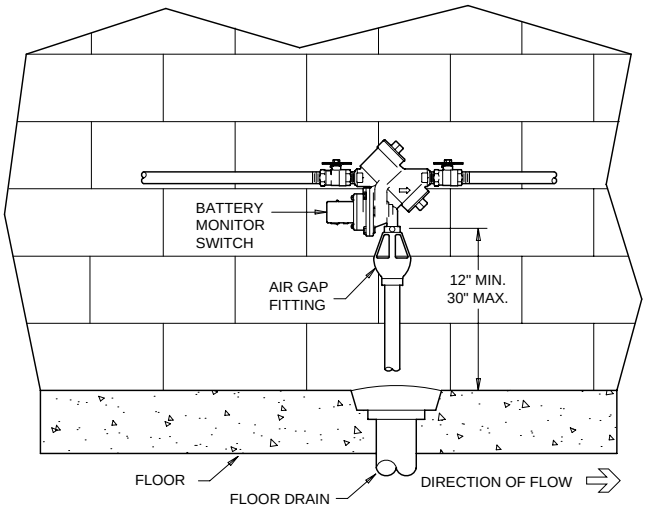
## FLOW CHARACTERISTICS




| Relief Valve Discharge Rate @ BMS Alarm Signal (Factory Set) | |
|---|---|
| Pipe size | Inlet Pressure |
| | 50 psi |
| 3/4"-1" | 5 gpm |
| 1 1/4"-2" | 10 gpm |

### TYPICAL INSTALLATION

Local codes shall govern installation requirements. To be installed in accordance with the manufacturers' 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.




**TYPICAL INSTALLATION**

### 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, signaling 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-suppled external wiring and alarm panel connection. It is recommended that the battery be replaced during the annual backflow field test. Contact factory for alarm options and details.

### SPECIFICATIONS

The reduced pressure principle backflow preventer shall be rated to 180°F and supplied with full port ball valves and integral battery operated monitor switch. The checks shall be accessible for maintenance without removing the valve 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 assembly shall be a WILKINS Model 975XLBMS.



**WILKINS OPERATION OF ZURN PLUMBING PRODUCTS,** 1747 Commerce Way, Paso Robles, CA 93446 Phone:805/238-7100 Fax:805/238-5766
**IN CANADA: ZURN INDUSTRIES LIMITED,** 3544 Nashua Dr., Mississauga, Ontario L4V 1L2 Phone:905/795-8844 Fax:905/795-8850