

# Victaulic® FireLock™ Zone Control Riser Module Series 747M



## 1.0 PRODUCT DESCRIPTION

### Available Sizes:

- 1 ¼ – 6"/DN32 – DN150

### Pipe Material:

- Carbon steel, Schedule 10, Schedule 40

### NOTE

- For use with alternative materials please contact Victaulic.

### Maximum Working Pressure:

- Up to 365psi/2517kPa/25bar

### Application:

- Fire protection system control modules integrated test and drain valve, with customizable test orifice, flow switch and pressure gauge.

### Optional Accessories:

- Pressure Relief Kit - UL Listed and FM Approved for working pressures up to 174psi/1200kPa/12bar.

## 2.0 CERTIFICATION/LISTINGS



ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

|              |  |          |  |
|--------------|--|----------|--|
| System No.   |  | Location |  |
| Submitted By |  | Date     |  |

|              |  |           |  |
|--------------|--|-----------|--|
| Spec Section |  | Paragraph |  |
| Approved     |  | Date      |  |



### 3.0 SPECIFICATIONS – MATERIAL

**Module Body:**

- **Housing:** Cast ductile iron conforming to ASTM A536, Grade 65-45-12.
- **Finish:** Orange enamel.

**Shut-off and Test/Drain Valve:**

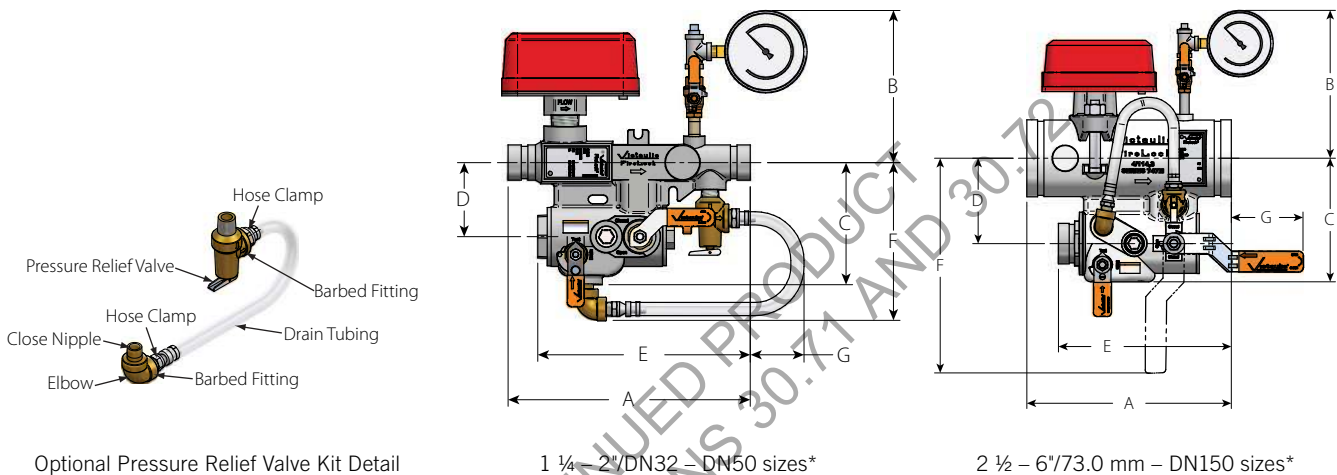
- Chrome plated brass ball, S 37700 brass clapper, 416SS or 410SS shafts, Delrin orifice, virgin Teflon<sup>1</sup>, enhanced Teflon and EPDM rubber seals.

<sup>1</sup> Teflon is a registered trademark of Dupont.

**Waterflow Detector:**

- Vane type waterflow detector with sealed retard, visual switch activation, and mechanical delay adjustment. Cover includes tamper resistant security screws and tool.

### 4.0 DIMENSIONS



| Module Body Size |                         |              | Dimensions     |               |               |              |                |               |               | Weight             |
|------------------|-------------------------|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|--------------------|
| Nominal Diameter | Actual Outside Diameter | Drain Size   | A              | B             | C             | D            | E (Groove)     | F             | G             | Approximate (Each) |
| inches<br>DN     | inches<br>mm            | inches<br>mm | inches<br>mm   | inches<br>mm  | inches<br>mm  | inches<br>mm | inches<br>mm   | inches<br>mm  | inches<br>mm  | lb<br>kg           |
| 1 ¼<br>DN32      | 1.660<br>42.2           | 1<br>33.4    | 11.45<br>290.8 | 7.20<br>182.9 | 5.77<br>146.5 | 3.50<br>88.9 | 10.05<br>255.3 | 7.48<br>190.0 | 2.54<br>64.5  | 15.2<br>6.9        |
| 1 ½<br>DN40      | 1.900<br>48.3           | 1<br>33.4    | 11.45<br>290.8 | 7.32<br>185.9 | 5.77<br>146.5 | 3.50<br>88.9 | 10.05<br>255.3 | 7.48<br>190.0 | 2.54<br>64.5  | 15.5<br>7.0        |
| 2<br>DN50        | 2.375<br>60.3           | 1<br>33.4    | 11.45<br>290.8 | 7.55<br>191.8 | 5.77<br>146.5 | 3.50<br>88.9 | 10.05<br>255.3 | 7.48<br>190.0 | 2.54<br>64.5  | 19.9<br>9.0        |
| 2 ½              | 2.875<br>73.0           | 1 ¼<br>42    | 12.00<br>305   | 8.41<br>214   | 6.18<br>157   | 4.25<br>108  | 9.76<br>248    | 11.87<br>302  | 4.25<br>108   | 22.7<br>10.3       |
| 3<br>DN80        | 3.500<br>88.9           | 1 ¼<br>42    | 12.00<br>305   | 9.42<br>239   | 6.18<br>157   | 4.25<br>108  | 9.76<br>248    | 11.87<br>302  | 4.25<br>108   | 23.2<br>10.6       |
| 4<br>DN100       | 4.500<br>114.3          | 2<br>60      | 12.00<br>305   | 9.90<br>252   | 7.25<br>184   | 5.00<br>127  | 10.15<br>258   | 12.62<br>321  | 4.21<br>107   | 30.3<br>13.8       |
| 6<br>DN150       | 6.625<br>168.3          | 2<br>60      | 12.00<br>305   | 10.85<br>276  | 8.31<br>211   | 6.00<br>154  | 10.15<br>258   | 13.62<br>346  | 4.24<br>107.7 | 36.7<br>16.7       |

\* Valves shown in the “test” position and with optional Pressure Relief Valve Kit installed

## 5.0 PERFORMANCE

| Nominal Size<br>inches | Orifices                                                      |
|------------------------|---------------------------------------------------------------|
| 1.25                   | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6                            |
| 1.5                    | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6                            |
| 2                      | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6                            |
| 2.5                    | K4.2, K4.9, K5.6, K6.9, K8.0, K11.2, K14.0, K16.8             |
| 3                      | K4.2, K4.9, K5.6, K6.9, K8.0, K11.2, K14.0, K16.8             |
| 4                      | K4.2, K4.9, K5.6, K6.9, K8.0, K11.2, K14.0, K16.8, K25        |
| 6                      | K4.2, K4.8, K5.6, K6.9, K8.0, K11.0, K11.2, K14.0, K16.8, K25 |

| Nominal Size<br>inches | Drain Type | Drain Size<br>inches |
|------------------------|------------|----------------------|
| 1.25                   | NPT        | 1                    |
| 1.5                    | NPT        | 1                    |
| 2                      | NPT        | 1                    |
| 2.5                    | Grooved    | 1 ¼                  |
| 3                      | Grooved    | 1 ¼                  |
| 4                      | Grooved    | 2                    |
| 6                      | Grooved    | 2                    |

## 6.0 NOTIFICATIONS

### ⚠ WARNING



- This product must be installed by an experienced, trained installer, in accordance with the instructions provided with each valve. These instructions contain important information.

Failure to follow these instructions may result in serious personal injury, property damage, or valve leakage.

If you need additional copies of this product literature or the valve installation instructions, or if you have any questions about the safe installation and use of this device, contact Victaulic Company, P.O. Box 31, Easton, PA 18044-0031 USA, Telephone: 001-610-559-3300.

## 7.0 REFERENCE MATERIALS

[26.01: Victaulic® Design Data](#)

[29.01: Victaulic® Terms and Conditions of Sale](#)

[I-100: Victaulic® Field Installation Handbook](#)

[I-101/103: Victaulic® FireLock™ No. 101 \(90° Elbow\) and No. 103 \(45° Elbow\) Installation-Ready™ Fittings](#)

[I-102: Victaulic® FireLock™ No. 102 \(Straight Tee\) Installation-Ready™ Fitting](#)

[I-108: Style 108 FireLock™ Installation-Ready™ Coupling](#)

[I-747M: Victaulic® Installation Instructions Series 747M FireLock™ Zone Control Riser Module Assembly](#)

### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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### Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

### Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](http://www.victaulic.com).

### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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