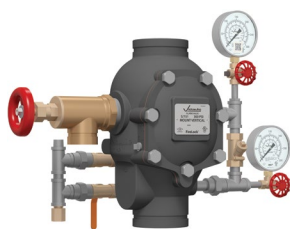


# FireLock™ Alarm Check Valve

## Series 751



Series 751



Series 751 European Trim

### 1.0 PRODUCT DESCRIPTION

#### Available Sizes

- 1 ½ – 8"/40 – 200 mm

#### Pressure Class

- 1 ½ – 6"/40 - 152.4 mm 300 psi/2068 kPa/21 Bar
- 8"/200 mm 232 psi/1600 kPa/16 bar. See section 5.0

#### Valve Configurations

- Bare
- Pre-trimmed
- Vic-Quick Riser: Pre-trimmed and includes:
  - Shut Off Valve (1 ½"/40 mm: Series 728 Ball Valve, 2" – 8"/50 – 200 mm: Series 705 *FireLock* Butterfly Valve)
  - Drain Connection kit
- Fire-Pac Series 745 (refer to Victaulic [publication 30.23](#))

#### Pipe Preparation

- Victaulic Original Groove System

#### Application/Media

- For use on fire protection systems only.

### 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

**Bill of Materials: Standard Trim, cULus, FM, CCC version**

**Body:** Ductile iron, ASTM A-536 Grade 65-45-12

**Clapper:** Aluminum bronze UNS-C95500

**Shaft:** Stainless steel 17-4PH

**Clapper Seal:** EPDM

**Seat O-Rings:** Nitrile

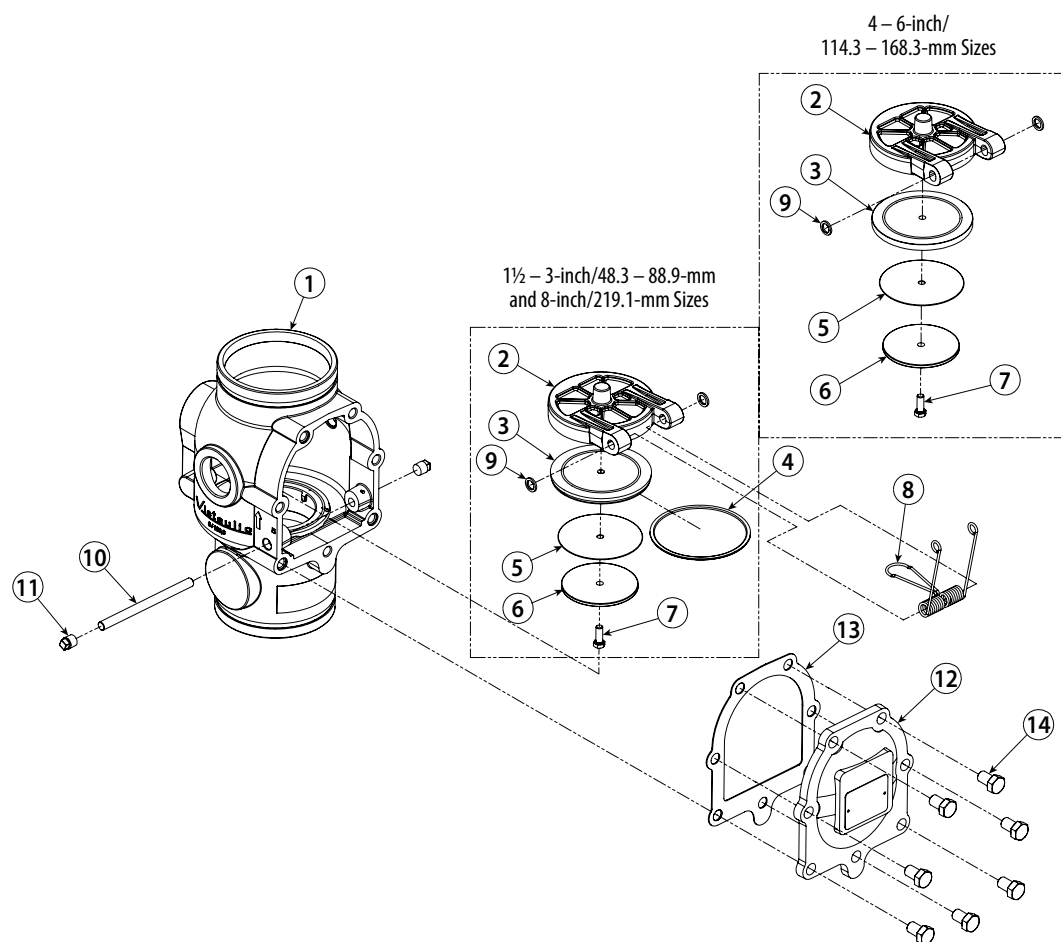
**Clapper Spring:** Stainless steel (302 Series)

**Washers:** PTFE

**Cover Plate Bolts:** Carbon steel, zinc plated

**Cover Plate Gasket:** Nitrile

**Seal Plate:** Aluminum Bronze (UNS-C95400)

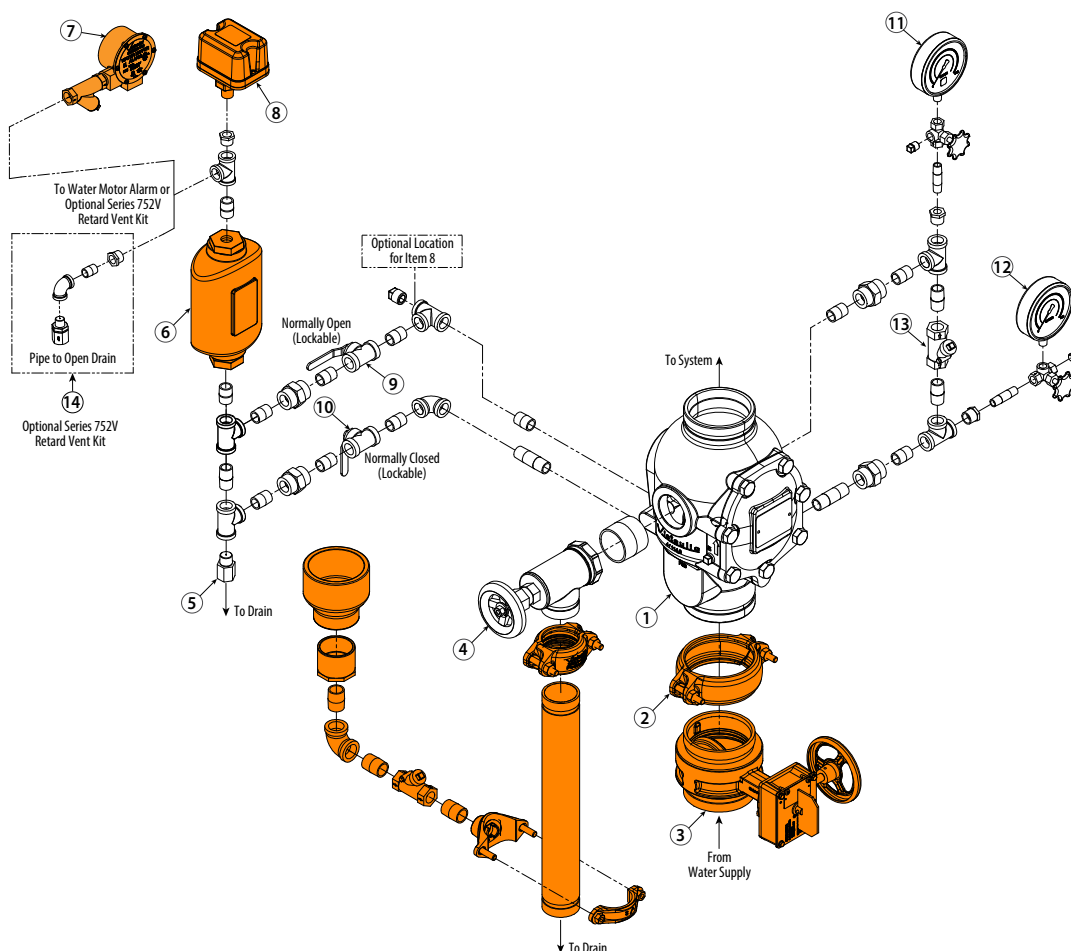


| Item | Description         | Item | Description                  |
|------|---------------------|------|------------------------------|
| 1    | Valve Body          | 8    | Clapper Spring               |
| 2    | Clapper             | 9    | Washer                       |
| 3    | Clapper Seal        | 10   | Shaft                        |
| 4    | Seal Ring           | 11   | Clapper Shaft Retaining Plug |
| 5    | Seal Washer         | 12   | Cover Plate                  |
| 6    | Seal Plate          | 13   | Cover Plate Gasket           |
| 7    | Screw, Self Sealing | 14   | Cover Plate Bolts            |

### 3.1 SPECIFICATIONS – MATERIAL

Standard Trim: cULus, FM, CCC version

Series 751 *FireLock* Alarm Check Valve



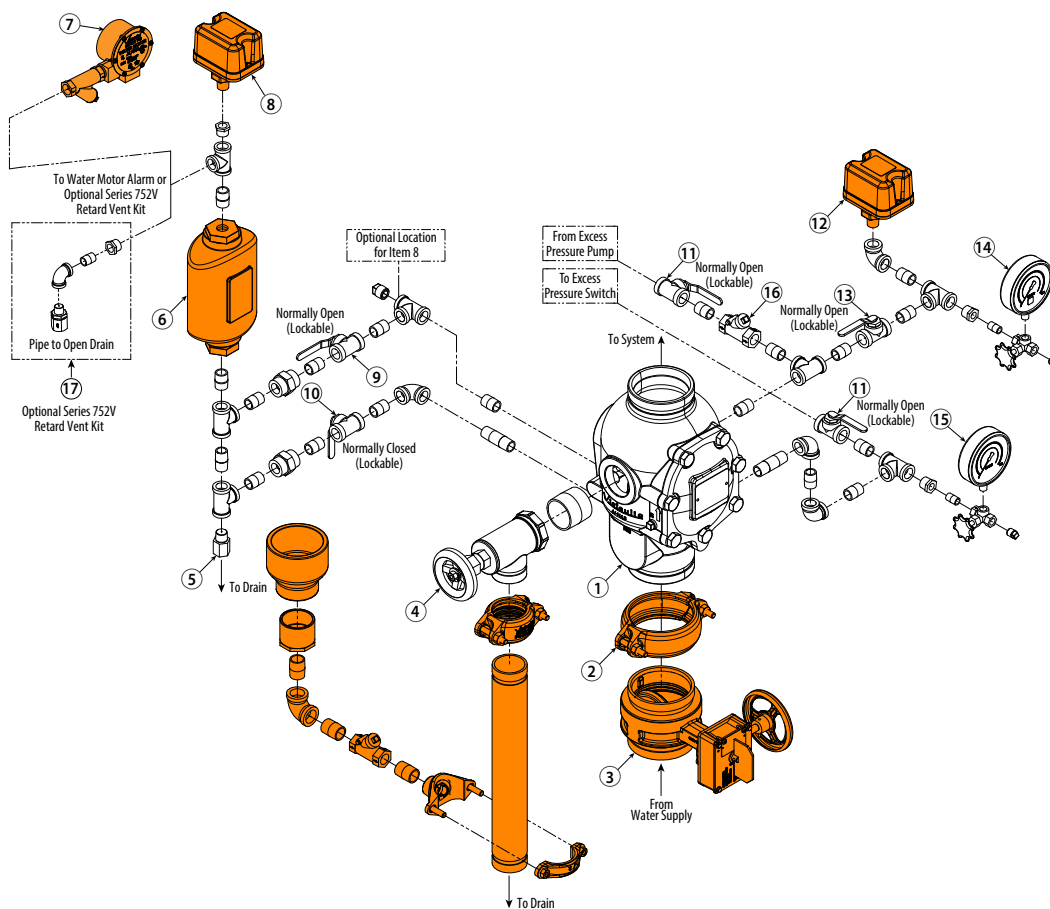
| Item | Description                                                      | Item | Description                                                             |
|------|------------------------------------------------------------------|------|-------------------------------------------------------------------------|
| 1    | Series 751 <i>FireLock</i> Alarm Check Valve                     | 8    | Alarm Pressure Switch (Optional/Sold Separately)                        |
| 2    | <i>FireLock</i> Rigid Coupling (Optional/Sold Separately)        | 9    | Alarm Line Ball Valve (Normally Open)                                   |
| 3    | Water Supply Main Control Valve (Optional/Sold Separately)       | 10   | Alarm Test Line Ball Valve (Normally Closed)                            |
| 4    | System Main Drain Valve                                          | 11   | System Pressure Gauge/Gauge Valve Assembly (0-300 psi/0-2068 kPa)       |
| 5    | Alarm Line Drain Restrictor (1/16-inch)                          | 12   | Water Supply Pressure Gauge/Gauge Valve Assembly (0-300 psi/0-2068 kPa) |
| 6    | Series 752 Retard Chamber Assembly (Optional/Sold Separately)    | 13   | Swing Check Valve                                                       |
| 7    | Series 760 Water Motor Alarm Assembly (Optional/Sold Separately) | 14   | Series 752V Retard Vent Kit <sup>1</sup> (Optional/Sold Separately)     |

<sup>1</sup> The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

## 3.2 SPECIFICATIONS – MATERIAL

### Standard Trim: cULus, FM, CCC version

Series 751 *FireLock* Alarm Check Valve Trim for Use with Excess Pressure Pump



| Item | Description                                                                                              | Item | Description                                                                      |
|------|----------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------|
| 1    | Series 751 <i>FireLock</i> Alarm Check Valve                                                             | 10   | Alarm Test Line Ball Valve (Normally Closed)                                     |
| 2    | <i>FireLock</i> Rigid Coupling (Optional/Sold Separately – Comes Standard when VQR Assembly is Ordered)  | 11   | Excess Pressure Pump Isolation Ball Valve (Normally Open)                        |
| 3    | Water Supply Main Control Valve (Optional/Sold Separately – Comes Standard when VQR Assembly is Ordered) | 12   | Excess Pressure Pump Pressure Switch (Sold Separately/Not Provided by Victaulic) |
| 4    | System Main Drain Valve                                                                                  | 13   | Excess Pressure Pump Pressure Switch Isolation Ball Valve (Normally Open)        |
| 5    | Alarm Line Drain Restrictor (1/16-inch)                                                                  | 14   | System Pressure Gauge (0-300 psi/0-2068 kPa)                                     |
| 6    | Series 752 Retard Chamber Assembly (Optional/Sold Separately)                                            | 15   | Water Supply Pressure Gauge (0-300 psi/0-2068 kPa)                               |
| 7    | Series 760 Water Motor Alarm Assembly (Optional/Sold Separately)                                         | 16   | Swing Check Valve                                                                |
| 8    | Alarm Pressure Switch (Optional/Sold Separately)                                                         | 17   | Series 752V Retard Vent Kit <sup>1</sup> (Optional/Sold Separately)              |
| 9    | Alarm Line Ball Valve (Normally Open)                                                                    |      |                                                                                  |

<sup>1</sup> The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

## 3.2 SPECIFICATIONS – MATERIAL (CONTINUED)

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Standard Trim Package

Optional Accessories (specify choice):

Series 752 Retard Chamber – Required when the Series 751 *FireLock* Alarm Check Valve is installed in a variable pressure installation in order to reduce the possibility of false alarms. (Refer to [30.01](#)).

Series 752V Retard Vent Kit – Required when an electric pressure switch is installed on the retard chamber without a water motor alarm.

Series 760 Water Motor Alarm – The Series 751 *FireLock* Alarm Check Valve is designed to activate a mechanical alarm when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat. (Refer to [30.32](#)).

Alarm pressure switch – The Series 751 *FireLock* Alarm Check Valve is designed to allow the installation of pressure switches to activate electric alarms and control panels when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat.

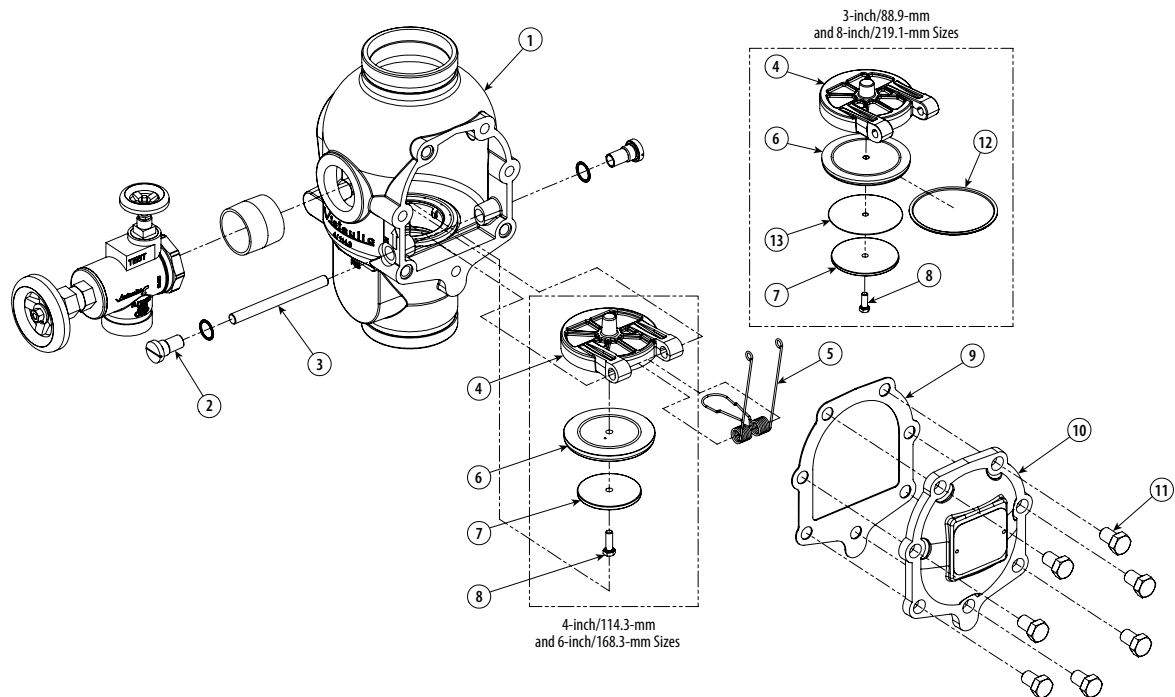
Waterflow Detectors – Waterflow detectors are available for installation on the riser.

Trim kit available for configuration with excess pressure pump.

3.3 SPECIFICATIONS – MATERIAL

Bill of Materials: European Trim, VdS, CE, LPCB, CNBOP, FM, EAC version

Series 751 FireLock Alarm Check Valve

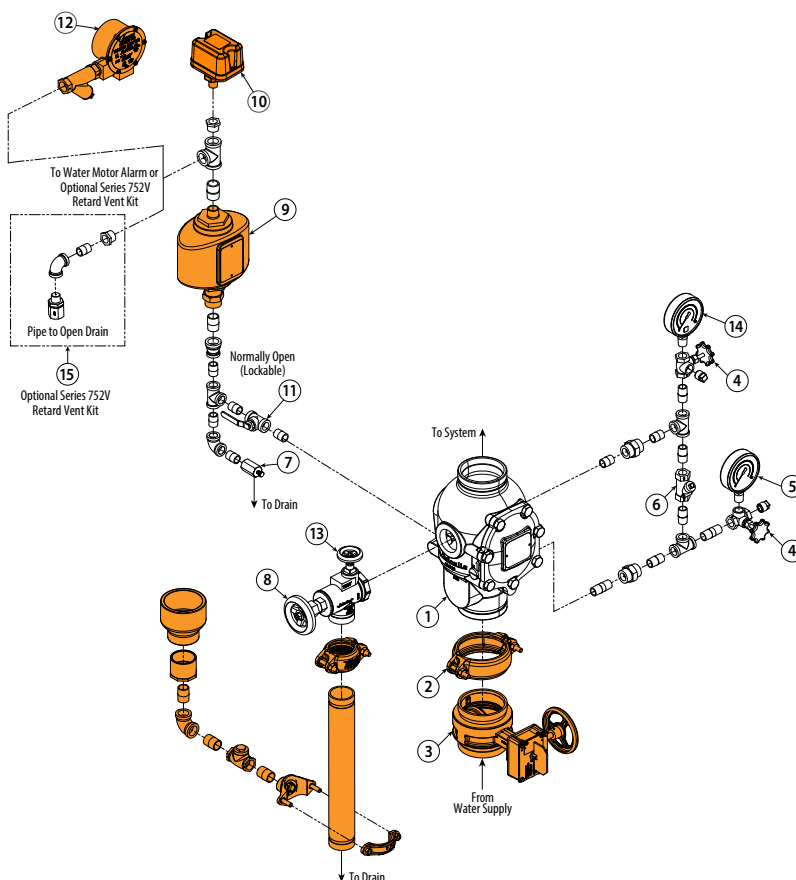


| Item | Description                     | Item | Description         |
|------|---------------------------------|------|---------------------|
| 1    | Valve Body                      | 8    | Screw, Self Sealing |
| 2    | Clapper Shaft Retaining Bushing | 9    | Cover Plate Gasket  |
| 3    | Shaft                           | 10   | Cover Plate         |
| 4    | Clapper                         | 11   | Cover Plate Bolt    |
| 5    | Clapper Spring                  | 12   | Seal Ring           |
| 6    | Clapper Seal                    | 13   | Seal Washer         |
| 7    | Seal Plate                      |      |                     |

### 3.4 SPECIFICATIONS – MATERIAL

European Trim: VdS, CE, LPCB, FM, EAC version

Series 751 *FireLock* Alarm Check Valve with Vertical Trim



| Item | Description                                           | Item | Description                                                                                                                |
|------|-------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------|
| 1    | Series 751 <i>FireLock</i> European Alarm Check Valve | 9    | Series 752 VdS Retarding Chamber Assembly (Optional/Sold Separately) Alarm Pressure Switch                                 |
| 2    | <i>FireLock</i> Rigid Coupling                        | 10   | Alarm pressure switch (Optional/Sold Separately)                                                                           |
| 3    | Water Supply Main Control Valve                       | 11   | Alarm Line Ball Valve (Lockable – Normally Open) Series 760 European Water Motor Alarm Assembly (Optional/Sold Separately) |
| 4    | Gauge Valve                                           | 12   | Series 760 Water Motor Alarm (Optional/Sold Separately)                                                                    |
| 5    | Water Supply Pressure Gauge (0-25 Bar)                | 13   | System Test Valve                                                                                                          |
| 6    | Swing Check Valve                                     | 14   | System Pressure Gauge (0-25 Bar)                                                                                           |
| 7    | Restricted Orifice/Alarm Line Drain                   | 15   | Series 752V Retard Vent Kit <sup>1</sup> (Optional/Sold Separately)                                                        |
| 8    | System Main Drain Valve                               |      |                                                                                                                            |

<sup>1</sup> The Series 752V Retard Vent Kit is required any time an air break is needed above the Series 752 VdS Retarding Chamber Assembly. In addition, the Series 752V Retard Vent Kit is required if multiple valves are tied into one water motor alarm and a check valve isolates each line.

### 3.4 SPECIFICATIONS – MATERIAL (CONTINUED)

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Standard Trim Package

Optional Accessories (specify choice):

Series 752 Retard Chamber – Required when the Series 751 *FireLock* Alarm Check Valve is installed in a variable pressure installation in order to reduce the possibility of false alarms. (Refer to [30.01](#)).

Series 752V Retard Vent Kit – Required when an electric pressure switch is installed on the retard chamber without a water motor alarm.

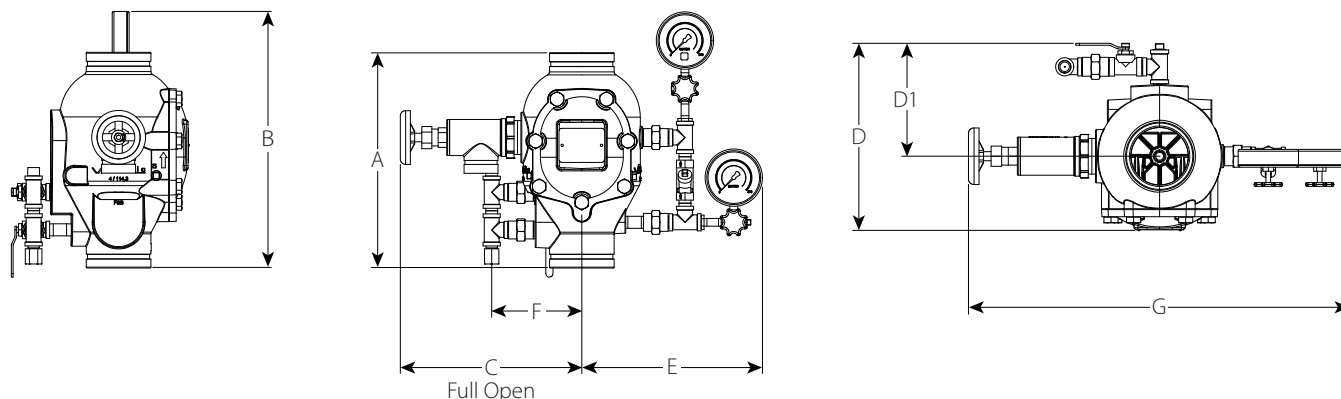
Series 760 Water Motor Alarm – The Series 751 *FireLock* Alarm Check Valve is designed to activate a mechanical alarm when a sustained flow of water (such as an open sprinkler) causes the alarm check's clapper to lift from its seat. (Refer to [30.32](#)).

Waterflow Detectors – Waterflow detectors are available for installation on the riser.

## 4.0 DIMENSIONS

### Standard Trim Dimensions: cULus, FM, CCC Version

Standard trim and trim for use with excess pressure pump (without drain connection kit and water supply main control valve options).



#### NOTES

- The "A" dimension is the actual takeout dimension of the valve body.
- For systems with the optional Series 752 Retard Chamber Assembly, add 12 inches/305 mm to the "B" dimension to account for the additional height.

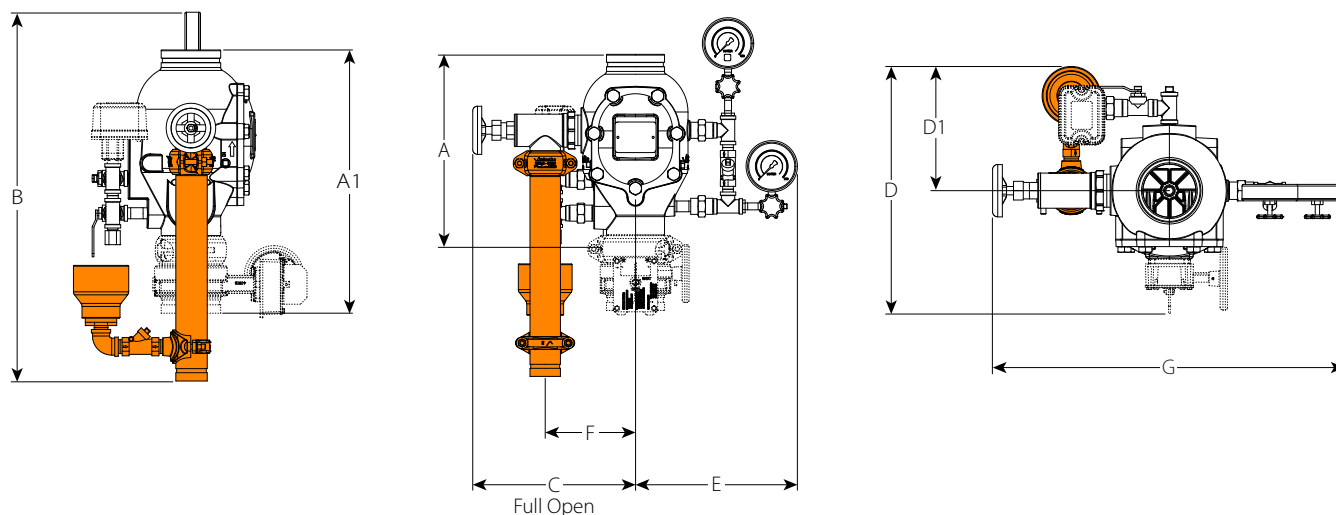
| Size                    |                                               | Dimensions        |                   |                   |                   |                    |                   |                   |                   | Approx Weight Each            |                            |
|-------------------------|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------|
| Nominal<br>inches<br>mm | Actual<br>Outside<br>Diameter<br>inches<br>mm | A<br>inches<br>mm | B<br>inches<br>mm | C<br>inches<br>mm | D<br>inches<br>mm | D1<br>inches<br>mm | E<br>inches<br>mm | F<br>inches<br>mm | G<br>inches<br>mm | Without<br>Trim<br>lbs.<br>kg | With<br>Trim<br>lbs.<br>kg |
| 1 ½<br>DN40             | 1.900<br>48.3                                 | 9.00<br>229       | 11.75<br>298      | 10.00<br>254      | 11.25<br>286      | 7.00<br>178        | 11.00<br>279      | 5.00<br>127       | 21.00<br>533      | 14.2<br>6.4                   | 31.0<br>14.0               |
| 2<br>DN50               | 2.875<br>60.3                                 | 9.00<br>229       | 11.75<br>298      | 10.00<br>254      | 11.25<br>286      | 7.00<br>178        | 11.00<br>279      | 5.00<br>127       | 21.00<br>533      | 14.6<br>6.6                   | 31.0<br>14.1               |
| 2 ½                     | 2.875<br>73.0                                 | 12.50<br>318      | 15.00<br>381      | 11.25<br>286      | 11.75<br>298      | 7.50<br>191        | 11.75<br>298      | 7.50<br>191       | 23.00<br>548      | 34.4<br>15.6                  | 52.0<br>23.6               |
| DN65                    | 3.000<br>76.1                                 | 12.50<br>318      | 15.00<br>381      | 11.25<br>286      | 11.75<br>298      | 7.50<br>191        | 11.75<br>298      | 7.50<br>191       | 23.00<br>584      | 34.4<br>15.6                  | 52.0<br>23.6               |
| 3<br>DN80               | 3.500<br>88.9                                 | 12.50<br>318      | 15.00<br>381      | 11.25<br>286      | 11.75<br>298      | 7.50<br>191        | 11.75<br>298      | 7.50<br>191       | 23.00<br>584      | 35.3<br>16.0                  | 52.0<br>23.6               |
| 4<br>DN100              | 4.500<br>114.3                                | 15.00<br>381      | 18.25<br>464      | 13.00<br>330      | 12.75<br>324      | 7.75<br>197        | 13.00<br>330      | 6.75<br>171       | 26.00<br>660      | 49.0<br>22.2                  | 80.0<br>36.3               |
| 165.1mm                 | 6.625<br>168.3                                | 16.00<br>406      | 19.00<br>483      | 13.50<br>343      | 14.75<br>375      | 9.00<br>229        | 13.75<br>349      | 6.75<br>171       | 27.25<br>692      | 69.0<br>31.3                  | 91.0<br>41.3               |
| 6<br>DN150              | 6.500<br>165.1                                | 16.00<br>406      | 19.00<br>483      | 13.50<br>343      | 14.75<br>375      | 9.00<br>229        | 13.75<br>349      | 6.75<br>171       | 27.25<br>692      | 69.0<br>31.3                  | 95.0<br>43.1               |
| 8<br>DN200              | 8.625<br>219.1                                | 17.50<br>445      | 18.75<br>476      | 14.75<br>375      | 17.25<br>438      | 10.00<br>254       | 14.75<br>375      | 6.75<br>171       | 29.50<br>749      | 142.0<br>64.4                 | 182.0<br>82.6              |

## 4.0 DIMENSIONS

### Standard Trim Dimensions: cULus, FM, CCC Version

Standard trim and trim for use with excess pressure pump (with drain connection kit and water supply main control valve options).

A 4-inch/114.3 mm Series 751 *FireLock* Alarm Check Valve with optional drain connection kit and water supply main control valve is shown below.



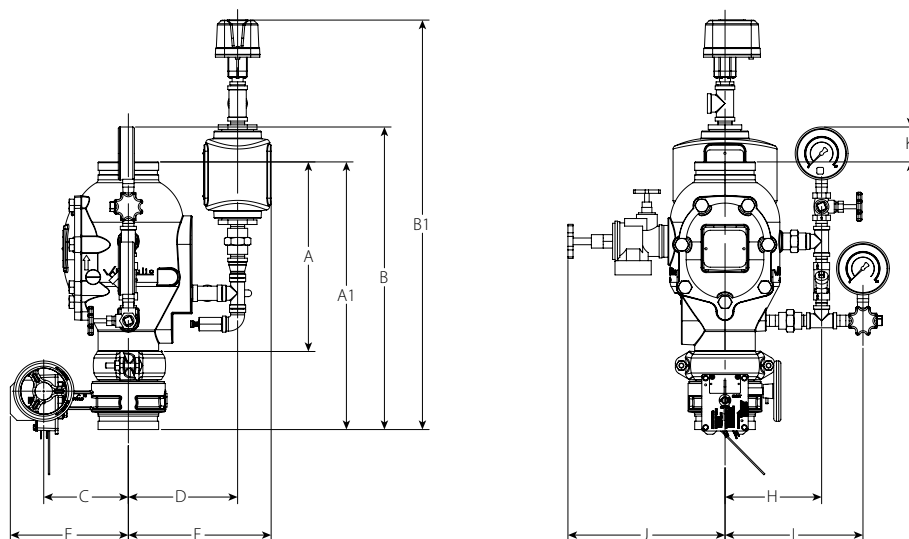
#### NOTES

- The "A" dimension is the actual takeout dimension of the valve body.
- The "A1" dimension is the actual takeout dimension of the valve body with optional water supply main control valve.
- For systems with the optional Series 752 Retard Chamber Assembly, add 12 inches/305 mm to the "B" dimension to account for the additional height. The "D" and "D1" dimensions are not fixed measurements. The drip cup of the drain connection kit option can be rotated to provide more clearance at the back of the trim.
- Components shown as dotted lines denote optional equipment.
- The recommended drain connection kit option (shaded in orange) is shown for reference and takeout dimensions.

| Size                    |                                               | Dimensions        |                    |                   |                   |                   |                    |                   |                   |                   | Approx Weight Each            |                            |
|-------------------------|-----------------------------------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------------------|----------------------------|
| Nominal<br>inches<br>mm | Actual<br>Outside<br>Diameter<br>inches<br>mm | A<br>inches<br>mm | A1<br>inches<br>mm | B<br>inches<br>mm | C<br>inches<br>mm | D<br>inches<br>mm | D1<br>inches<br>mm | E<br>inches<br>mm | F<br>inches<br>mm | G<br>inches<br>mm | Without<br>Trim<br>lbs.<br>kg | With<br>Trim<br>lbs.<br>kg |
| 1 ½<br>DN40             | 1.900<br>48.3                                 | 9.00<br>229       | 16.25<br>413       | 24.50<br>622      | 9.25<br>235       | 14.00<br>356      | 7.50<br>191        | 11.25<br>286      | 5.75<br>146       | 20.50<br>521      | 16.7<br>7.6                   | 43.0<br>19.5               |
| 2<br>DN50               | 2.875<br>60.3                                 | 9.00<br>229       | 13.75<br>349       | 24.50<br>622      | 9.25<br>235       | 14.00<br>356      | 7.50<br>191        | 11.25<br>286      | 5.75<br>146       | 20.50<br>521      | 17.0<br>7.7                   | 43.0<br>19.5               |
| 2 ½                     | 2.875<br>73.0                                 | 12.50<br>318      | 16.50<br>419       | 26.25<br>667      | 11.25<br>286      | 16.50<br>419      | 9.00<br>229        | 11.75<br>298      | 6.50<br>165       | 23.00<br>584      | 41.0<br>18.7                  | 65.0<br>29.5               |
| DN65                    | 3.000<br>76.1                                 | 12.50<br>318      | 16.50<br>419       | 26.25<br>667      | 11.25<br>286      | 16.50<br>419      | 9.00<br>229        | 11.75<br>298      | 6.50<br>165       | 23.00<br>584      | 41.0<br>18.7                  | 65.0<br>29.5               |
| 3<br>DN80               | 3.500<br>88.9                                 | 12.50<br>318      | 16.50<br>419       | 26.25<br>667      | 11.25<br>286      | 16.50<br>419      | 9.00<br>229        | 11.75<br>298      | 6.50<br>165       | 23.00<br>584      | 41.0<br>18.7                  | 65.0<br>29.5               |
| 4<br>DN100              | 4.500<br>114.3                                | 15.00<br>381      | 19.75<br>502       | 25.50<br>648      | 13.00<br>330      | 18.00<br>457      | 9.25<br>235        | 13.00<br>330      | 7.50<br>191       | 26.00<br>660      | 59.0<br>26.7                  | 95.0<br>43.0               |
| 165.1mm                 | 6.625<br>168.3                                | 16.00<br>406      | 22.13<br>562       | 25.25<br>641      | 13.50<br>343      | 20.75<br>527      | 9.25<br>235        | 13.75<br>349      | 7.75<br>197       | 27.25<br>692      | 80.0<br>36.2                  | 116.0<br>52.6              |
| 6<br>DN150              | 6.500<br>165.1                                | 16.00<br>406      | 22.13<br>562       | 25.25<br>641      | 13.50<br>343      | 20.75<br>527      | 9.25<br>235        | 13.75<br>349      | 7.75<br>197       | 27.25<br>692      | 80.0<br>36.2                  | 116.0<br>52.6              |
| 8<br>DN200              | 8.625<br>219.1                                | 17.50<br>445      | 23.00<br>584       | 26.75<br>679      | 14.75<br>375      | 24.00<br>610      | 10.50<br>267       | 14.50<br>368      | 9.25<br>235       | 29.25<br>743      | 122.0<br>55.3                 | 158.0<br>71.6              |

## 4.0 DIMENSIONS (CONTINUED)

European Trim Dimensions: VdS, CE, LPCB, FM, EAC version



| Size    |                         | Dimensions     |        |        |        |        |        |        |        |        |        |        |        | Weight       |
|---------|-------------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| Nominal | Actual Outside Diameter | A <sup>2</sup> | A1     | B      | B1     | C      | D      | E      | F      | H      | I      | J      | K      | Approx. Each |
| inches  | inches                  | inches         | inches | inches | inches | inches | inches | inches | inches | inches | inches | inches | inches | lbs.         |
| mm      | mm                      | mm             | mm     | mm     | mm     | mm     | mm     | mm     | mm     | mm     | mm     | mm     | mm     | kg           |
| 3       | 3.500                   | 12.50          | 16.50  | 17.13  | 28.75  | 5.50   | 7.63   | 7.50   | 10.13  | 6.63   | 9.75   | 10.88  | 0.63   | 75.8         |
| DN80    | 88.9                    | 318            | 419    | 435    | 730    | 140    | 194    | 191    | 257    | 168    | 248    | 276    | 16     | 34.4         |
| 4       | 4.500                   | 15.00          | 19.88  | 22.50  | 30.50  | 6.25   | 8.13   | 8.75   | 10.63  | 7.13   | 10.25  | 11.63  | 2.50   | 100.4        |
| DN100   | 114.3                   | 381            | 505    | 572    | 775    | 159    | 206    | 222    | 270    | 181    | 260    | 295    | 64     | 45.5         |
| 6       | 6.625                   | 16.00          | 22.13  | 24.63  | 32.13  | 8.13   | 9.38   | 10.75  | 11.88  | 7.50   | 10.63  | 12.00  | 2.50   | 132.5        |
| DN150   | 168.3                   | 406            | 562    | 625    | 816    | 206    | 238    | 273    | 302    | 191    | 270    | 305    | 64     | 60.1         |
| 8       | 8.625                   | 17.50          | 23.00  | 23.25  | 30.13  | 9.38   | 8.50   | 12.00  | 11.00  | 9.25   | 12.13  | 13.38  | 0.25   | 199.7        |
| DN200   | 219.1                   | 445            | 584    | 591    | 765    | 238    | 216    | 305    | 279    | 235    | 308    | 340    | 6      | 90.6         |

<sup>2</sup> The "A" dimension is the measurement from the top of the valve body to the bottom of the valve body (takeout dimension).

### NOTE

- Overall height "B" is greatest height if optional retard chamber is not installed.

## 5.0 PERFORMANCE

### Standard Trim: cULus, FM, CCC Version

#### Frictional Resistance

The chart below expresses the frictional resistance of Series 751 *FireLock* Alarm Check Valve in equivalent feet of straight pipe.

| Nominal Size<br>inches<br>mm | Actual Outside Diameter<br>inches<br>mm | Equivalent Length of Pipe<br>feet<br>meters |
|------------------------------|-----------------------------------------|---------------------------------------------|
| 1 ½<br>DN40                  | 1.900<br>48.3                           | 3.00<br>0.910                               |
| 2<br>DN50                    | 2.875<br>60.3                           | 9.00<br>2.740                               |
| 2 ½                          | 2.875<br>73.0                           | 8.00<br>2.438                               |
| DN65                         | 3.000<br>76.1                           | 8.00<br>2.438                               |
| 3<br>DN80                    | 3.500<br>88.9                           | 17.00<br>5.182                              |
| 4<br>DN100                   | 4.500<br>114.3                          | 21.00<br>6.401                              |
| 6<br>DN150                   | 6.625<br>168.3                          | 22.00<br>6.706                              |
|                              | 6.500<br>165.1                          | 22.00<br>6.706                              |
| 8<br>DN200                   | 8.625<br>219.1                          | 50.00<br>15.240                             |

### European Trim: VdS, CE, LPCB, FM, EAC version

#### Frictional Resistance

The chart below expresses the frictional resistance of Series 751 *FireLock* Alarm Check Valve in equivalent meters of straight pipe.

| Nominal Size<br>DN<br>inches | Actual Outside Diameter<br>mm<br>inches | Equivalent Length of Pipe<br>meters<br>feet |
|------------------------------|-----------------------------------------|---------------------------------------------|
| DN80<br>3                    | 88.9<br>3.500                           | 5.182<br>17.00                              |
| DN100<br>4                   | 114.3<br>4.500                          | 6.401<br>21.00                              |
| DN150<br>6                   | 168.3<br>6.625                          | 6.706<br>22.00                              |
| DN200<br>8                   | 219.1<br>8.625                          | 15.240<br>50.00                             |

## 5.0 PERFORMANCE (CONTINUED)

### Maximum Working Pressure

#### Standard Trim:

| Size                    |                                               | cULus             | FM                | CCC               |
|-------------------------|-----------------------------------------------|-------------------|-------------------|-------------------|
| Nominal<br>inches<br>DN | Actual<br>Outside<br>Diameter<br>inches<br>DN | psi<br>kPa<br>bar | psi<br>kPa<br>bar | psi<br>kPa<br>bar |
| 1½<br>DN40              | 1.900<br>48.3                                 | 300<br>2068<br>21 | 300<br>2068<br>21 | -                 |
| 2<br>DN50               | 2.375<br>60.3                                 | 300<br>2068<br>21 | 300<br>2068<br>21 | -                 |
| 2½                      | 2.875<br>73.0                                 | 300<br>2068<br>21 | 300<br>2068<br>21 | -                 |
| DN65                    | 3.000<br>76.1                                 | 300<br>2068<br>21 | 300<br>2068<br>21 | -                 |
| 3<br>DN80               | 3.500<br>88.9                                 | 300<br>2068<br>21 | 300<br>2068<br>21 | 232<br>1600<br>16 |
| 4<br>DN100              | 4.500<br>114.3                                | 300<br>2068<br>21 | 300<br>2068<br>21 | 232<br>1600<br>16 |
| 6<br>DN150              | 6.625<br>168.3                                | 300<br>2068<br>21 | 300<br>2068<br>21 | 232<br>1600<br>16 |
|                         | 6.500<br>165.1                                | 300<br>2068<br>21 | 300<br>2068<br>21 | 232<br>1600<br>16 |
| 8<br>DN200              | 8.625<br>219.1                                | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |

#### European Trim:

| Size                    |                                               | FM                | EAC               | VdS               | LPCB              | CE                |
|-------------------------|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nominal<br>inches<br>DN | Actual<br>Outside<br>Diameter<br>inches<br>DN | psi<br>kPa<br>bar | psi<br>kPa<br>bar | psi<br>kPa<br>bar | psi<br>kPa<br>bar | psi<br>kPa<br>bar |
| 3<br>DN80               | 3.500<br>88.9                                 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |
| 4<br>DN100              | 4.500<br>114.3                                | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |
| 6<br>DN150              | 6.625<br>168.3                                | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |
|                         | 6.500<br>165.1                                | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |
| 8<br>DN200              | 8.625<br>219.1                                | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 | 232<br>1600<br>16 |

## 6.0 NOTIFICATIONS

### WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA 13, 13D, 13R, etc.) standards, or equivalent standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

## 7.0 REFERENCES

[10.64: Style 009N Firelock EZ™ Rigid Coupling](#)

[10.81: Firelock™ Butterfly Valve with Weatherproof Actuator Series 705 Submittal](#)

[I-751: Firelock™ Alarm Check Valve Series 751 Installation, Maintenance, and Testing Manual](#)

[I-751-NXT.KIT: Firelock™ European Fire Protection Valves Series 751, 764, 768 and 769 Alarm Kit Trim Instructions \(Europe Only\)](#)

[I-751.PST: Firelock™ Alarm Check Valve Series 751 Installation Poster](#)

[I-751.VDS: Firelock™ European Alarm Check Valve Stations Series 751 Installation, Maintenance, and Testing Manual](#)

[I-751.VDS-ADD: Firelock™ European Alarm Check Valve Station \(VDS\) Series 751 Wall Chart for Placing the System in Service](#)

[I-751.VDS-KIT: Firelock™ European Alarm Check Valve Stations Series 751 Kit Installation Instructions](#)

[I-760: Firelock™ Water Motor Alarm Series 760 Installation Manual](#)

### 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 WeChat.

### Warranty

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

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