#### SERIES 764

This patent-pending Victaulic FireLock NXT Series 764 Alternate Valve is a low-differential, latched clapper valve that uses a unique direct-acting diaphragm to separate system water supplies from dry-pipe sprinkler systems. This valve offers a trim system that accommodates both wet and dry systems and is field-convertible.

#### FEATURES



Exaggerated for Clarity

The low-differential latch and actuator design allows the valve to be reset without opening and is not subject to water columns.

(VL)

The valve allows the water to operate a water motor alarm and/or electric pressure alarms, which operate until the flow of water stops.

An optional accelerator is available when larger systems require a faster response.

The valve is available for  $1\frac{1}{2} - \frac{8}{40} - 200 \text{ mm}$  pipe sizes and is rated to: UL, FM to 300 psi/ 2068 kPa and LPCB to 232 psi/1600 kPa due to the esoteric wet valve requirements. Required air pressure is 13 psi/90 kPa.

The valve is grooved x grooved. Standard grooving dimensions conform to ANSI/AWWA C606.

The Series 764 valve is made of high-strength, low-weight ductile iron and offers easy access to all internal parts, even after installation. All internal parts are replaceable. The rubber clapper seal can be easily replaced without removing the clapper from the valve. The valve is painted inside and out to increase corrosion resistance.

The body is tapped for main drain and all available trim configurations. It is available bare, or in the following configurations:

#### **Pre-Trimmed**

Compact, pre-assembled trim for both wet and dry systems can be specified for this valve. See below for envelope dimensions of this dual-purpose system.

#### Vic-Quick Riser

(request publication 30.20)

The Vic-Quick Riser comes completely pre-trimmed and includes a shut-off valve (Series 705W butterfly valve – request publication 10.18) for system shut-off, pre-set pressure switches, and a drain kit for ease of installation.

| 0         |              |                |
|-----------|--------------|----------------|
| JOB/OWNER | CONTRACTOR   | ENGINEER       |
| System No | Submitted By | Spec Sect Para |
| Location  | Date         | Approved       |
|           |              | Date           |

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SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS





SERIES 764

### DIMENSIONS



| Siz                             | e   |        |        |       |       |       | D     | imensions | – Inche | s/mm  |       |       |        |        |        |        | App<br>Weight<br>Lbs | rox.<br>t Each<br>./kg |
|---------------------------------|---|--------|--------|-------|-------|-------|-------|-----------|---------|-------|-------|-------|--------|--------|--------|--------|----------------------|------------------------|
| Nominal<br>Size<br>Inches<br>mm | Actual<br>Outside<br>Dia.<br>Inches<br>mm | A      | A1*    | в     | B1*   | C1*   | D     | E         | E1*     | F     | G     | G1*   | н      | J      | К      | L      | Without<br>Trim      | With<br>Trim           |
| 1 ½                             | 1.900                                     | 9.00   | 16.31  | 27.50 | 34.50 | 16.50 | 9.75  | 12.50     | 15.00   | 15.75 | 9.25  | 11.25 | 10.20  | 8.50   | 3.04   | 6.98   | 16.7                 | 43.0                   |
| 40                              | 48.3                                      | 228.60 | 414.27 | 698   | 876   | 419   | 247   | 317       | 381     | 400   | 234   | 285   | 259.08 | 215.90 | 77.21  | 177.29 | 7.6                  | 19.5                   |
| 2                               | 2.375                                     | 9.00   | 16.31  | 27.50 | 34.50 | 16.50 | 9.75  | 12.50     | 15.00   | 15.75 | 9.25  | 11.25 | 10.20  | 8.53   | 3.04   | 6.98   | 17.0                 | 43.0                   |
| 50                              | 60.3                                      | 228.60 | 414.27 | 698   | 876   | 419   | 247   | 317       | 381     | 400   | 234   | 285   | 259.08 | 216.66 | 77.21  | 177.29 | 7.7                  | 19.5                   |
| 76.1 mm                         | 3.00                                      | 12.61  | 16.44  | 31.75 | 44.25 | 21.25 | 11.25 | 14.50     | 18.25   | 16.75 | 10.00 | 9.75  | 10.65  | 9.04   | 3.76   | 6.69   | 41.0                 | 65.0                   |
|                                 | 76.1                                      | 320.29 | 417.57 | 806   | 1123  | 539   | 285   | 368       | 463     | 425   | 254   | 247   | 270.51 | 229.61 | 95.50  | 169.92 | 18.7                 | 29.5                   |
| 3                               | 3.500                                     | 12.61  | 16.44  | 31.75 | 44.25 | 21.25 | 11.25 | 14.50     | 18.75   | 16.75 | 10.00 | 9.75  | 10.65  | 9.04   | 3.76   | 6.69   | 41.0                 | 65.0                   |
| 80                              | 88.9                                      | 320.29 | 417.57 | 806   | 1123  | 539   | 285   | 368       | 476     | 425   | 254   | 247   | 270.51 | 229.61 | 95.50  | 169.92 | 18.7                 | 29.5                   |
| 4                               | 4.500                                     | 15.03  | 19.78  | 32.75 | 45.50 | 21.00 | 10.25 | 16.00     | 20.75   | 15.50 | 11.25 | 10.75 | 13.54  | 9.56   | 6.06   | 8.46   | 59.0                 | 95.0                   |
| 100                             | 114.3                                     | 381.76 | 502.41 | 831   | 1155  | 533   | 260   | 406       | 527     | 393   | 285   | 273   | 343.91 | 242.82 | 153.92 | 214.88 | 26.7                 | 43.0                   |
| 165.1 mm                        | 6.500                                     | 16.00  | 22.00  | 33.00 | 45.75 | 20.00 | 10.25 | 17.25     | 22.25   | 15.75 | 11.50 | 11.00 | 13.46  | 9.94   | 6.06   | 8.38   | 80.0                 | 116.0                  |
|                                 | 165.1                                     | 406.40 | 558.80 | 838   | 1162  | 508   | 260   | 438       | 565     | 400   | 292   | 279   | 341.88 | 252.47 | 153.92 | 212.85 | 36.2                 | 52.6                   |
| 8                               | 8.625                                     | 17.50  | 23.01  | 33.00 | 45.75 | 18.75 | 10.00 | 19.00     | 24.25   | 16.00 | 11.75 | 11.00 | 14.80  | 11.00  | 6.06   | 9.72   | 122.0                | 158.0                  |
| 200                             | 219.1                                     | 444.50 | 584.45 | 838   | 1162  | 476   | 254   | 482       | 615     | 406   | 298   | 279   | 375.92 | 279.40 | 153.92 | 246.88 | 55.3                 | 71.6                   |

#### NOTES:

The "A" dimension coupling is not shown in order to clarify dimensional callouts.

Components shown as dotted lines denote optional equipment.

\* Measurements denoted with an asterisk take optional equipment into account.

Optional drain connection kit is shown for reference and takeout dimensions.



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SERIES 764

### PERFORMANCE

### Hydraulic Friction Loss



#### **Frictional Resistance**

The chart below expresses the frictional resistance of Victaulic Series 764 FireLock NXT.

| Alternate Va | alve in equ | ivalent feet | of straig | ght pipe. |
|--------------|-------------|--------------|-----------|-----------|
|--------------|-------------|--------------|-----------|-----------|

| Si                              | ze                                     | Equivalent Length<br>of Pipe |
|---------------------------------|--|------------------------------|
| Nominal<br>Size<br>Inches<br>mm | Actual<br>Outside Dia.<br>Inches<br>mm | Feet<br>meters               |
| 1 ½                             | 1.900                                  | 3.00                         |
| 40                              | 48.3                                   | 0.914                        |
| 2                               | 2.375                                  | 9.00                         |
| 50                              | 60.3                                   | 2.743                        |
| 76.1 mm                         | 3.000<br>76.1                          | 8.00<br>2.438                |
| 3                               | 3.500                                  | 17.00                        |
| 80                              | 88.9                                   | 5.182                        |
| 4                               | 4.500                                  | 21.00                        |
| 100                             | 114.3                                  | 6.401                        |
| 165.1 mm                        | 6.500<br>165.1                         | 22.00<br>6.711               |
| 8                               | 8.625                                  | 50.00                        |
| 200                             | 219.1                                  | 15.240                       |



SERIES 764



C<sub>v</sub> VALUES

 $C_v$  values for flow of water at +60°F/+16°C through a fully open valve are shown in the table below.

#### Formulas for C<sub>v</sub> values:

 $\Delta P = Q^2$ C.2  $Q = C \times \sqrt{\Delta P}$ 

Where: Q = Flow (GPM) $\Delta P = Pressure Drop (psi)$  $C_{y} = Flow Coefficient$ 

| Size                            |  | C <sub>v</sub> /K <sub>v</sub> | Si                              | ze                                     | C <sub>v</sub> /K <sub>v</sub> |
|---------------------------------|--|--------------------------------|---------------------------------|--|--------------------------------|
| Nominal<br>Size<br>Inches<br>mm | Actual<br>Outside Dia.<br>Inches<br>mm | (Fully Open Valve)             | Nominal<br>Size<br>Inches<br>mm | Actual<br>Outside Dia.<br>Inches<br>mm | (Fully Open Valve)             |
| 1 ½                             | 1.900                                  | 60                             | 3                               | 3.500                                  | 200                            |
| 40                              | 48.3                                   | 52.0                           | 80                              | 88.9                                   | 173.0                          |
| 2                               | 2.375                                  | 110                            | 4                               | 4.500                                  | 350                            |
| 50                              | 60.3                                   | 95.0                           | 100                             | 114.3                                  | 302.8                          |
| 2½                              | 2.875                                  | 180                            | 165.1 mm                        | 6.500                                  | 1000                           |
| 65                              | 73.0                                   | 156.0                          |                                 | 165.1                                  | 865.0                          |
| 76.1 mm                         | 3.000                                  | 180                            | 8                               | 8.625                                  | 1500                           |
|                                 | 76.1                                   | 156.0                          | 200                             | 219.1                                  | 1499.1                         |

![](_page_3_Picture_10.jpeg)

#### SERIES 764

| MATERIAL SPECIFICATIONS | Body:<br>ASTM | Ductile iron conformi<br>A-395, grade 65-45 | ing to ASTM A-536, g<br>-15, is available upon | rade 6<br>special | 5-45-12. Ductile iron conforming to request.   |
|-------------------------|---------------|---|--|-------------------|--|
|                         | Clapp         | er: Aluminum bronze                         | UNS-C95500                                     |                   |  |
|                         | Shaft:        | Stainless 17-4                              |  |                   |  |
|                         | Seat C        | D-rings: EPDM, ASTM                         | 1 D2000  |                   |  |
|                         | Clapp         | er Seal: Peroxide cur                       | ed EPDM, ASTM D20                              | 00                |  |
|                         | Seat:         | Brass UNS C83600                            |  |                   |  |
|                         | Diaph         | ragm: Peroxide curec                        | I EPDM with fabric rei                         | nforcer           | nent   |
|                         | •<br>Bill of  | Materials                                   |  |                   |  |
|                         | 1             | Valve Body                                  |  | 12                | Cover Plate  |
|                         | 2             | Clapper<br>Clapper Soal                     |  | 13                | Cover Plate Gasket   |
|                         | 4             | Seal Ring                                   |  | 14                | Latch  |
|                         | 5             | Seal Washer                                 |  | 16                | Latch Spring   |
|                         | 6             | Seal Retaining Ring                         |  | 17                | Latch Spring Bushing and O-ring (Qty. 2)   |
|                         | 8             | Bolt Seal                                   |  | 18                | Diaphragm Cover  |
|                         | 9             | Clapper Spring                              |  | 20                | Diaphragm Cover Cap Screws (Qty. 8)  |
|                         | 10            | Clapper Shaft                               | $a_{\alpha}$ and $O_{\alpha}$ ring (Oty 2)     | 21                | Latch Shaft  |
|                         | 11            | Ciapper Shalt Bushin                        |  |                   |  |
|                         |               |   |  |                   |  |
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| OF OR                   | \<br>\        |   |  |                   |  |
| (14                     | ,<br>Exagge   | erated for clarity                          | 6  |                   |  |
|                         |               |   |  |                   |  |
|                         |               |   |  |                   |  |

![](_page_4_Picture_4.jpeg)

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SERIES 764

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#### Trim Package Includes:

1 Galvanized components

2 Series 776 Low-Pressure Actuator – The Series 776 Low-Pressure Actuator is pneumatically actuated and requires only 13 psi/90 kPa minimum air pressure, regardless of the system supply pressure. This actuator allows the system to operate with a low air or gas pressure of 7 psi/48 kPa. Request submittal 30.65.

- 3 Air Feed Manifold
- 4 All Required Pipe and Fittings
- 5 All Standard Trim Accessories
- 6 All Required Gauges

#### **Optional Trim Package for Components:**

1 Black Trim for Foam Systems – If the valve is intended for use in a foam system, black trim must be ordered, per NFPA requirements. Specify this requirement on the order.

#### **Optional Accessories:**

- Series 746-LPA Dry Accelerator The Series 746 Dry Accelerator is required when the Series 768 Dry Valve is installed in large systems to improve response time. Request submittal 30.64.
- Series 760 Water Motor Alarm The Series 760 Water Motor Alarm is a mechanical device that sounds when a sustained flow of water occurs (such as with an open sprinkler). Request submittal 30.32.
- Series 75B Supplemental Alarm Device The Series 75B Supplemental Alarm Device is designed to provide a continuous alarm for systems equipped with a mechanical device. Request submittal 30.33.
- Series 75D Water Column Kit The Series 75D Water Column Kit is designed to minimize residual water in the riser from collecting above the clapper. Request submittal 30.34.
- Alarm Pressure Switch Alarm Pressure Switches are designed to activate electrical alarms and control panels when a sustained flow of water occurs (such as with an open sprinkler).
- **Air Supervisory Pressure Switch** Air Pressure Supervisory Switches are used to monitor system air pressure and are available as low-pressure and high-pressure sensitivity.
- **Air Supply System** The air supply system contains all components for establishing and maintaining air in the system. The compressor, low-pressure alarms, ball valves, and required trim are included in the air supply system.
- Air Compressor
- Air Dryer
- Air Maintenance Device
- Alarm Panels
- Drain Connection Kit

![](_page_5_Picture_26.jpeg)

#### SERIES 764

#### AIR SUPPLY REQUIREMENTS

The required air pressure for Series 764 FireLock NXT Alternate Valves is 13 psi/90 kPa minimum, regardless of the system supply pressure. Air pressures should be kept below 18 psi/124 kPa, unless a Series 746-LPA Dry Accelerator is installed. Systems with air pressures higher than 18 psi/124 kPa require the addition of a Series 746-LPA Dry Accelerator.

If multiple Series 764 FireLock NXT Alternate Valves are installed with a common air supply, isolate the systems with a spring-loaded, soft-seated ball check valve to ensure air integrity for each system. Good practice is to include a ball valve for isolation and service of each individual system.

Set the air pressure to the required system air pressure. Air pressure differing from the required system air pressure could reduce system operation response time.

The engineer/system designer is responsible for sizing the compressor so that the entire system is charged to the required air pressure within 30 minutes. DO NOT oversize the compressor to provide more airflow. An oversized compressor will slow down or possibly prevent valve operation.

If the compressor fills the system too fast, it may be necessary to restrict the air supply. Restricting the air supply will ensure that air being exhausted from an open sprinkler or manual release valve is not replaced by the air supply system as fast as it is being exhausted.

#### COMPRESSOR SIZING

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![](_page_6_Figure_10.jpeg)

![](_page_6_Picture_11.jpeg)

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SERIES 764

 

 BASE OR RISER MOUNTED COMPRESSORS
 For base or riser-mounted compressors, the recommended air pressure of 13 psi/90 kPa is the "on" or "low" pressure setting for the compressor. The "off" or "high" pressure setting should be 18 psi/124 kPa.

 When a base or riser-mounted air compressor supplies air to a Series 764 FireLock NXT Alternate Valve, it is not necessary to install the Victaulic Series 757 Regulated Air Maintenance Trim Assembly (AMTA). In this case, the airline of the compressor connects to the trim at the fitting where the Series 757 Regulated AMTA is normally installed (refer to the applicable trim drawing). If the compressor is not equipped with a pressure switch, the Series 757P Air Maintenance Trim Assembly with Pressure Switch should be installed.

 SHOP AIR OR TANK MOUNTED AIR COMPRESSORS
 In the event a compressor becomes inoperative, a properly sized tank-mounted air compressor provides the greatest protection for systems.

 When shop air or a tank-mounted air compressor is used, the Series 757 Regulated AMTA must be

sprinkler system.

For tank-mounted air compressors, the recommended air pressure of 13 psi/90 kPa should be used as the set point for the air regulator. The "on" pressure of the compressor should be at least 5 psi/34 kPa above the set point of the air regulator.

installed. The Series 757 Regulated AMTA provides proper air regulation from the air reservoir to the

![](_page_7_Picture_6.jpeg)

SERIES 764

**SERIES 757 REGULATED AIR** MAINTENANCE TRIM ASSEMBLY

**NOTICE** 

B. .

OF OF OF

Victaulic recommends a maximum of two Series 764 FireLock NXT Alternate Valves per Series 757 Regulated AMTA

#### **Bill of Materials**

- 1 1/3.2 mm Restrictor
- 2 Slow Fill Ball Valve (Normally Open)
- **3** Air Regulator
- 4 Strainer (100 Mesh)
- 5 Spring-Loaded, Soft-Seated Ball Check Valve
- 6 Fast Fill Ball Valve (Normally Closed)

Exaggerated for clarity

#### SERIES 757P AIR MAINTENANCE TRIM ASSEMBLY WITH PRESSURE SWITCH

Victaulic recommends a maximum of two Series 764 FireLock NXT Alternate Valves per . Series 757P AMTA with Pressure Switch

#### **Bill of Materials**

- 1 1/8-inch/3.2 mm Restrictor
- 2 Pressure Switch
- Slow Fill Ball Valve (Normally Open) 3
- Fast Fill Ball Valve (Normally Closed) 4
- Strainer (100 Mesh) 5
- 6 Spring-Loaded, Soft-Seated Ball Check Valve

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ictaulic

![](_page_8_Picture_26.jpeg)

![](_page_8_Picture_27.jpeg)

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SERIES 764

| COMPRESSOR REQUIREMENTS | Compressor Requirements and Settings for Series 764 FireLock NXT Alternate Valves Installed<br>with Series 746-LPA Dry Accelerators   |
|-------------------------|---|
|                         | Set the air regulator of the Series 757 Regulated AMTA to 13 psi/90 kPa.  |
|                         | THE SERIES 757P AIR MAINTENANCE TRIM ASSEMBLY WITH PRESSURE SWITCH MUST NOT<br>BE USED ON A SERIES 764 FIRELOCK NXT ALTERNATE VALVE INSTALLED WITH A SERIES<br>746-LPA DRY ACCELERATOR.   |
|                         | When a Series 764 FireLock NXT Alternate Valve is installed with a Series 746-LPA Dry Accelerator,<br>the Series 757 Regulated AMTA must be used. <b>NOTE:</b> The use of an air regulator with a base or<br>riser-mounted compressor could cause short cycling, resulting in premature wear of the compressor  |
|                         | In the event a compressor becomes inoperative, a properly sized tank-mounted air compressor provides the greatest protection for systems installed with a Series 746-LPA Dry Accelerator. In this situation, air can be supplied continuously to the sprinkler system for an extended time period. <b>NOTE:</b> The Series 757 Regulated AMTA should be used with a tank-mounted air compressor that supplies air to a Series 764 FireLock NXT Alternate Valve installed with a Series 746-LPA Dry Accelerator. |
|                         | The air regulator of the Series 757 Regulated AMTA is a relief-type design. Any pressure in the system that is above the set point of the air regulator will be released. Therefore, charging the air regulator above the set point could cause premature operation of a valve installed with a Series 746-LPA Dry Accelerator.   |
|                         | Settings for Air Supervisory Pressure Switches and Alarm Pressure Switches  |
|                         | Air supervisory pressure switches are required for dry systems and must be set according to the following instructions. <b>NOTE:</b> Switches for Vic-Quick Risers are pre-set at the factory.  |
|                         | Wire the air supervisory pressure switches to activate a low-pressure alarm signal. <b>NOTE:</b> In addition the local authority having jurisdiction may require a high-pressure alarm. Contact the local authority having jurisdiction for this requirement.   |
|                         | Set the air supervisory pressure switches to activate at $2 - 4 psi/14 - 28 kPa$ below the minimum air pressure required, but not lower than $10 psi/69 kPa$ .  |
|                         | Wire the alarm pressure switch to activate a water flow alarm.  |
|                         | Set the alarm pressure switch to activate on a pressure rise of $4 - 8 \text{ psi}/28 - 55 \text{ kPa}$ .   |
|                         | Remote System Test Valve Requirements   |
|                         | The remote system test valve (inspector's test connection) should contain a UL Listed and/or FM Approved valve (normally closed), which can be opened to simulate the operation of a sprinkler.   |
|                         | The remote system test valve (inspector's test connection) should be located at the most hydraulically demanding location in the release system. <b>NOTE:</b> Multiple restrictions on the remote system test valve (inspector's test connection) may slow the air decay rate and cause the system to respond slower than required.   |
|                         | The remote system test valve (inspector's test connection) should terminate with an orifice equal to the smallest orifice in the releasing system.  |
|                         | The remote system test valve (inspector's test connection) is used to ensure that water reaches the most remote part of the system within 60 seconds.   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |
|                         |   |

### SERIES 764

### **EXPLODED VIEW DRAWING - TRIM** COMPONENTS

Series 764 FireLock NXT Alternate Valve (Optional Accessories Also Shown)

### **Bill of Materials**

- Series 764 FireLock NXT Alternate 1 Wet/Dry Valve
- 2 FireLock Rigid Coupling (Optional)
- 3 Water Supply Main Control
- Valve (Optional)
- 4 Drain Swing Check Valve
- 5 Drip Cup
- Alarm Pressure Switch 6 (Optional)
- 7 Series 729 Drip Check Valve 8 Diaphragm-Charge-Line Ball Valve (Lockable - Open/Dry, Closed/Wet)
- 9 3-in-1 Strainer/Check/Restrictor Assembly
- Series 760 Water Motor Alarm 10 (Optional)
- 11 Alarm Test Ball Valve
- Diaphragm-Charge-Line Pressure 12 Gauge (0 - 300 psi/0 - 2068 kPa)
- 13 Series 749 Auto Drain
- Series 746-LPA Dry Accelerator 14
- Assembly (Optional) 15 Series 776 Low-Pressure Actuator
- 16 Air Manifold
- 17 Air Supervisory Pressure Switch (Optional)
- System Pressure Gauge 18 (0 - 80 psi/0 - 552 kPa with Retard)
- 19 Water Supply Main Drain Valve -Flow Test
- Water Supply Pressure Gauge 20 (0 - 300 psi/0 - 2068 kPa)
- 21 Drain Connection Kit (Optional)
- 22 Gauge Valve
- System Main Drain Valve 23
- Series 748 Ball Check Valve 24
- 25 Dry System Air Supply Ball Valve (Lockable - Open/Dry, Closed/Wet)
- 26 Wet System Bypass Ball Valve (Lockable - Closed/Dry, Open/Wet)
- 27 Dry Check Isolation Ball Valve (Lockable - Open/Dry, Closed/Wet)
- Alarm Line Drain Ball Valve 28 (Lockable - Closed/Drv. Open/Wet)
- 29 Series 755 Manual Pull Station

![](_page_10_Figure_36.jpeg)

Exaggerated for clarity

![](_page_10_Picture_38.jpeg)

30.83 11

![](_page_11_Figure_3.jpeg)

![](_page_11_Figure_4.jpeg)

![](_page_11_Picture_5.jpeg)

### **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.

#### WARRANTY

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

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.

![](_page_11_Picture_14.jpeg)

![](_page_11_Picture_15.jpeg)