



Fire Protection Systems



G-105
UPDATED 03/2011

Innovation

Built into every FireLock® system are innovative features aimed to optimize system design and shorten installation hours. As an example, the FireLock EZ® coupling eliminates loose parts which results in faster installation times.

Productivity

The Victaulic brand is synonymous with mechanical piping innovation. Innovation that provides better performance, easier installations, and a product line that is unmatched in the industry.

The result? You work smarter and more productively while delivering the reliability and performance your customers demand.



More than 85 years of piping systems solutions

Victaulic innovation began in 1925 with the first grooved-end mechanical pipe joining technology. In 1952, Victaulic released the first approved coupling for fire protection services. Today, Victaulic technology includes a complete offering of sprinklers, couplings, fittings, valves, accessories and tools to meet the needs of any fire protection application.

Every person at Victaulic is dedicated to providing the most innovative technologies and the fastest, most dedicated service in the industry to ensure product is available where and when you need it.





Efficiency

Ask your local sales representative about the many ways you can save time and resources by specifying genuine FireLock® products for your system, from couplings to sprinklers to valves. Or by making use of some of our tools and accessories to help simplify your scheduled maintenance calls and service checks.

By specifying and installing Victaulic FireLock systems, your business is poised to become more profitable. Our labor-saving innovations and on-site project assistance combine to help your crew work more efficiently.

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Global Solutions

A world of applications at work

Our solutions are truly global.

Victaulic piping systems solutions are found in some of the world's most stunning and challenging engineering projects – buildings that arguably “push the design and construction envelope.”

Custom solutions for demanding challenges

Whether new construction or retrofit, Victaulic delivers a level of versatility unmatched in mechanical piping systems technology for today's engineering marvels.

Victaulic solutions provide superior design flexibility, the ability to accommodate seismic moments, noise and vibration attenuation, system access, system scalability, installation-friendly products and service, and more.

Projects spanning the globe

The projects illustrated here are just a few of the many buildings around the world for which Victaulic has provided innovative piping solutions.

For additional information on these and many other projects around the world, please visit

www.victaulic.com.



UNITED STATES
Cowboys Stadium



EGYPT
Alexandria Library



CHINA
Jin Mao Tower



CANADA
Adobe Tower



GERMANY
Sony Center



AUSTRALIA
Sydney Olympic Stadium



- UNITED STATES
- EUROPE
- MIDDLE EAST
- CANADA
- CENTRAL AND SOUTH AMERICA
- ASIA
- AUSTRALIA AND NEW ZEALAND

Typical System Solutions*

Fire Protection Systems Solutions

Use this convenient guide to select the Victaulic product or system solution most appropriate for your next fire protection project.

We have selected a few building types for which Victaulic fire protection products are typically specified. Not all are listed here. Consult your Victaulic sales representative for additional information.



| BUILDING TYPE | RESIDENTIAL MULTI-STORY | PARKING GARAGE |
|---|---|---|
| System Goal | Life safety | Property protection |
| Considerations | Need maximum coverage in multi-floor, multi-unit living space | Multi-level structure that is prone to freezing and exposed to flammable fuels in automobiles |
| Recommended coupling/fitting piping system | FireLock® couplings, fittings, and valves AquaFlex® Flexible Sprinkler Fittings | FireLock couplings, fittings, and valves AquaFlex Flexible Sprinkler Fittings |
| Recommended device type | Series 751 alarm valves, Series 717/717R check valves | FireLock NXT® Series 768 dry valves® |
| Recommended sprinkler type | Quick response commercial and residential recessed pendent and horizontal sidewall sprinklers | Upright extended coverage, ordinary hazard (ECOH) |
| Recommended sprinkler finishes/coatings | White, chrome, or custom-painted | Brass or proprietary nickel/Teflon† |

* This solutions guide is a representative example of typical Victaulic fire protection applications.

® In areas that do not experience freezing conditions the Series 751 alarm valves can be used.



| INDUSTRIAL PLANT | MUSEUM | WAREHOUSE STORAGE (UNHEATED) | RESIDENTIAL (SINGLE FAMILY) |
|--|---|--|--|
| Provide maximum coverage to suppress fires quickly, eliminate risk of catastrophic event | Protect scientifically or historically significant artifacts, paintings, etc. | Provide maximum protection in large storage areas | Provide maximum protection for personal safety |
| Presence of multiple types of flammables | Archival areas need special care, minimize risk of damage to property | Freezing temperatures in unheated spaces, tall ceilings, high flows at low pressure required | Install system that accommodates low water pressure and pleasing aesthetics |
| FireLock® couplings, fittings, and valves | FireLock couplings, fittings, and valves | FireLock couplings, fittings, and valves | FireLock couplings, fittings, and valves |
| FireLock NXT® Series 769 deluge valves | FireLock NXT Series 769 preaction valves | FireLock NXT Series 768 dry valves | FireLock Series 717H check valves FireLock Series 247 Zone Control Riser Module |
| Open Spray, Deluge | Quick response, recessed or concealed pendent | LP-46 low pressure pendent and upright, ESFR pendent, horizontal sidewall, upright or intermediate | Residential recessed pendent, sidewall or concealed pendent |
| Brass or nickel/Teflon† | Brass, chrome, or custom-painted cover plate | Brass or nickel/Teflon† plate | White, chrome, or custom-painted |

† Teflon is a registered trademark of Dupont Corporation.






Fire Protection Innovations









A constant flow of innovation since 1925

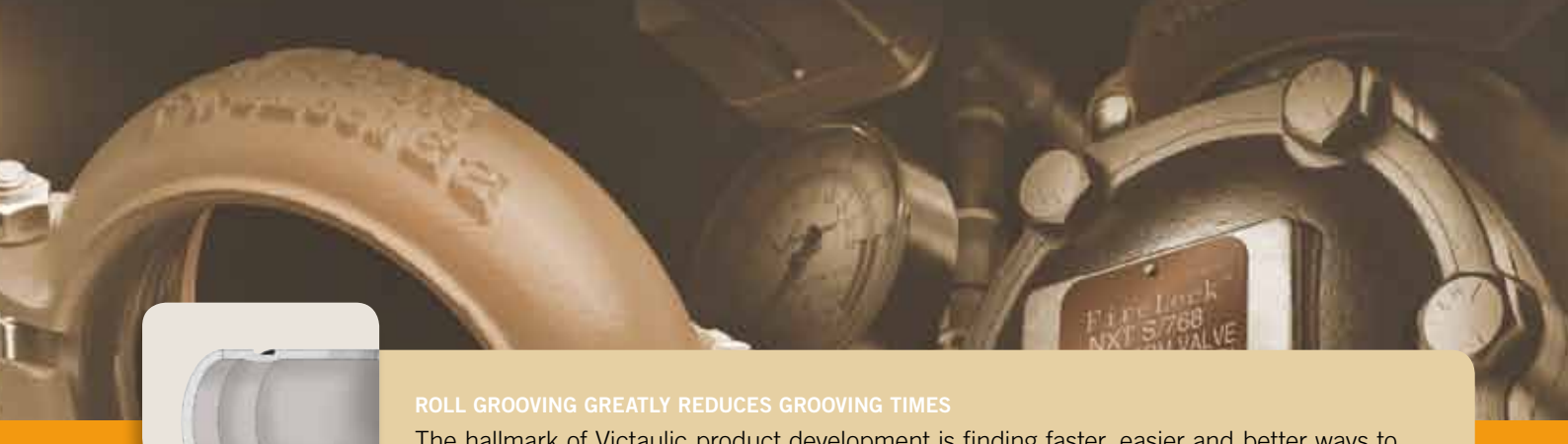
Founded in 1925 on the basis of marketing a single product called the “Victory Joint,” the Victaulic name comes from joining the words “victory” and “hydraulics” together. Used in World War I to provide fuel and water to the front, Victaulic products have evolved into the most innovative systems for joining pipe.

1925

1950

- 1925 Introduced grooved end pipe joining to the U.S.
- 1926
- 1927
- 1928
- 1929
-  1930 AWWA products introduced for underground services
- 1931
- 1932
- 1933
-  1934 Grooving changed the entire piping industry by creating a quick and easy method to assemble pipe joints. Pipe could be quickly cut-grooved and then securely connected with Victaulic couplings. The savings in time and labor would lead to dramatic gains in productivity.
- 1935
- 1936
- 1937
- 1938
- 1939
- 1940
- 1941
- 1942
- 1943
- 1944
- 1945
-  1946 Vic-Groover® cut grooving tools and Style 99 Roust-A-Bout® plain end coupling introduced
- 1947
- 1948
- 1949

- 1950
- 1951
-  1952 First grooved-end coupling to achieve UL listing
- 1953
- 1954
- 1955
- 1956
-  1957 Introduced roll grooving to the industry
- 1958
- 1959
- 1960
-  1962 Introduced first production roll groover
- 1963
-  1964 FlushSeal® gasket developed for dry systems
- 1965
-  1966 First adjustable field cut grooving tool
- 1967
- 1968
-  1969 First outlet coupling and first direct flanged-to-grooved adapter
- 1970
- 1971
-  1972 Pioneered & achieved UL Approval of roll grooving for 0.188 lightwall pipe
- 1973
-  1974 First grooved coupling for reducing on-the-run connections

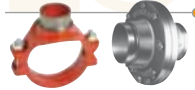


ROLL GROOVING GREATLY REDUCES GROOVING TIMES

The hallmark of Victaulic product development is finding faster, easier and better ways to join pipe, and in the 1950's, it led to one of the most significant concepts the company ever developed – roll grooving. By introducing this patented solution, Victaulic brought the efficiencies of the grooved coupling out of the realm of heavy wall pipe and into the lighter wall and smaller diameters used in such vital applications as fire protection.

1957

1975



1975 First bolted mechanical branch connection; Vic hole cutting tool; Vic-Check check valve

1976
1977



1978 Introduced FIT – First locking lug assembly system for small diameter pipe, no threading needed

Vic-Tap® – First positive location, full port hot tapping device with UL Listing

1979
1980
1981
1982



1983 Zero-Flex®, the first rigid grooved coupling, using angle-pad design

1984



1985 Series 718/719 TestMaster™ – First alarm test module combining 24 field assembled parts into one factory assembled unit

1986 First rubber coated disc butterfly valve with grooved ends designed specifically for fire protection

1987



1988 Style 005 FireLock® coupling – First rigid grooved end coupling designed specifically for fire protection services

1989



1990 FireLock Fittings – First CAD designed, high flow efficiency, short radius grooved end fittings for fire protection

1991 Pressfit® System – First IPS imperial size pressed fitting system

1992



1993 In-place roll groover for grooving previously installed pipe; Portable, easy set-up, retrofit hole cutting tool

1994 717 FireLock Check Valve – First extended body swing; check design, grooved end check valve for fire protection

Introduced 717-R FireLock Check, with a riser kit

Enhanced tracking rolls for "hands off" grooving

1995

1995
1996
1997



1998 FireLock line of devices – engineered to be the lightest, most compact devices designed to date

1999 FireLock line of automatic sprinklers

2000
2001
2002



2003 Introduced V36 dry fire sprinklers with UL listing

2004



Patented

FIRELOCK EZ® COUPLING

2005 Introduced FireLock EZ – first rigid coupling designed as a lightweight, installation ready coupling with no loose parts

2005



FIRELOCK NXT®

2006 Introduced FireLock NXT valve line with a single set point for all dry, deluge and preaction services

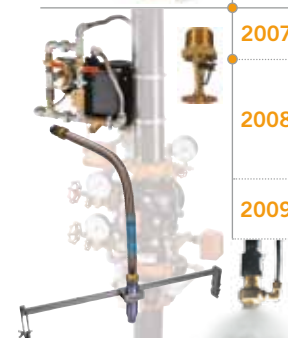
2007 Expanded FireLock NXT product line with Series 7C7 compressor package

Introduced LP-46 Low-Pressure Storage Pendent Sprinkler

2008

Innovative Victaulic Vortex™ Fire Suppression System introduced as first hybrid suppression technology

2009 AquaFlex® Flexible Sprinkler Fittings



Design Data

Introduction

This Victaulic Fire Protection Catalog provides general information on mechanical piping methods and Victaulic products for fire protection systems. For the latest and most up-to-date information, always consult the individual product submittals provided on the Victaulic web site – www.victaulic.com. This catalog is organized to provide information in the context and form most readily usable. For easy identification of major sections of interest, see the condensed table of contents on pg. 1-1, for a fully detailed index, see pg. 11-1. For more detailed design guidelines, consult Design Data, Publication 26.01.

Important Information

Victaulic has developed, in over 85 years in mechanical piping, variations of piping practice for use on a wide variety of piping materials.

Victaulic standard grooved pipe couplings are designed for use with pipe grooved to meet Victaulic groove specifications and Victaulic grooved end fittings, valves, and related grooved end components only. They are not intended for use with plain end pipe and/or fittings. Victaulic plain end couplings are designed for use only with plain end or beveled end steel pipe (unless otherwise indicated) and Victaulic plain end fittings. **Victaulic plain end couplings must not be used with grooved end threaded pipe and/or fittings.**

Pipe must be prepared to meet Victaulic specifications outlined for each specific product style. Performance data listed herein is based on proper pipe preparation. The proper gasket must be selected for the service intended. **It should be noted that there are various services for which Victaulic gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide (request publication 05.01) for specific gasket service recommendations and for a listing of services which are not recommended. Gaskets for Victaulic products always must be lubricated for proper assembly.** Gasket lubricant must meet manufacturer's specifications. Thorough lubrication of the gasket exterior, when required, including the lips and/or pipe ends and housing interiors, is essential to prevent gasket pinching. Lubrication assists proper gasket seating and alignment during installation.

Victaulic FireLock® devices require proper set up and maintenance. Always refer to the latest manual included with each valve for details.

When installing Victaulic FireLock automatic sprinklers it is important to select the proper wrench for installation. A complete guide for proper installation of Victaulic automatic sprinklers is available by requesting publication I-40.

Victaulic has a complete line of tools for preparing pipe to Victaulic specifications. Use of these tools is recommended in preparing pipe to receive Victaulic products. Always read and understand the Tool Operating Instructions supplied with every Victaulic tool prior to using any tools. All data contained herein, is subject to change without notice.

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Design Data

Notice

The technical and performance data, weights, dimensions and specifications published are current as of the date of publication. For the most up-to-date information visit the Victaulic web site for detailed specific product submittal information.

Victaulic maintains a policy of continual product improvement and, therefore, reserves the right to change product specifications, designs, and standard equipment without notice and without incurring obligation.

For the most up-to-date Victaulic product information, please visit www.victaulic.com.

The material presented in this catalog is intended for piping design reference in utilization of Victaulic products for their intended application. It is not intended as a substitute for competent, professional assistance which is an obvious requisite to any specific application.

Design

Reference should always be made to design information available at no charge on request from Victaulic. Good piping practices should always prevail. Specific pressures, temperatures, external or internal loads, performance standards and tolerances must never be exceeded. Many applications require recognition of special conditions, code requirements and use of safety factors. Qualified engineers must make these decisions.

While every effort has been made to ensure its accuracy, Victaulic, its subsidiaries and affiliated companies, make no express or implied warranty of any kind respecting the information contained in this catalog or the material referred to herein.

Anyone making use of the information or material contained herein does so at their own risk and assumes any and all liability resulting from such use.

Installation

Reference should always be made to the specific Victaulic Field Installation Handbook for the product you are installing. The following is a list of handbooks that can be requested for free from Victaulic:

| | |
|-------------|--|
| I-40 | FireLock® Automatic Sprinklers |
| I-100 | General Handbook |
| I-300 | AWWA Product Handbook |
| I-500 | Pressfit® System Handbook |
| I-600 | Copper Products Handbook |
| I-751 | FireLock Alarm Valve Manual |
| I-759 | FireLock Alarm Valve Manual |
| I-768 | FireLock NXT® Dry Valve Manual |
| I-769D | FireLock NXT Deluge Valve Manual |
| I-769P | FireLock NXT Preaction Valve Manual |
| I-769P-LPCB | FireLock NXT Preaction Valves for LPCB Approved Applications |
| I-900 | HDPE Products Handbook |
| I-AquaFlex | AquaFlex® Flexible Sprinkler Fittings |

Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Design Data

Global Pipe Size Designations

Victaulic product data is utilized worldwide and all technical data is shown in both imperial (U.S.) and metric terms. The following chart shows a comparison between typical metric and IPS pipe sizes.

| Imperial Inches – Size Group | Outside Diameter mm/Spec Ref | DIN mm | JIS mm | ANSI inches | China Standard (GB) mm |
|------------------------------|------------------------------|--------------|----------------|-------------|------------------------|
| 1/2 | 21.3 mm | 15 | 15 A/21.7 mm | 1/2 | 15*/21.3 mm |
| 3/4 | 26.7 mm | 20/26.9 mm | 20 A/27.2 mm | 3/4 | 20*/26.9 mm |
| 1 | 33.4 mm | 25/33.7 mm | 25 A/34 mm | 1 | 25*/33.7 mm |
| 1 1/4 | 42.2 mm | 32/42.4 mm | 32 A/42.7 mm | 1 1/4 | 32*/42.4 mm |
| 1 1/2 | 48.3 mm | 40 | 40 A/48.6 mm | 1 1/2 | 40*/48.3 mm |
| 2 | 60.3 mm | DN & ISO 50 | 50 A/60.5 mm | 2 | 50*/60.3 mm |
| 2 1/2 | 73.1 mm | — | — | 2 1/2 | — |
| 3 | 76.1 mm DIN/ISO (3 OD) | DN & ISO 65 | 65 A/76.3 mm | — | 65*/76.1 mm |
| | 88.9 mm | DN & ISO 80 | JIS 80 A | 3 | 80*/88.9 mm |
| 4 | 108 mm China and old DIN | DIN 108 mm | — | — | 108 mm |
| | 114.3 mm | DN & ISO 100 | JIS 100 A | 4 | 100*/114.3 mm |
| 5 | 133 mm China and old DIN | DIN 133 mm | — | — | 133 mm |
| | 139.7 mm DIN/ISO (5.5 OD) | DN & ISO 125 | 125 A/139.8 mm | — | 125*/139.7 mm |
| | 141.3 mm | — | — | 5 | — |
| 6 | 159 mm China and old DIN | DIN 159 mm | — | — | 159 mm |
| | 165.1 mm JIS (6.5 OD) | — | 150 A/165.2 mm | — | — |
| | 168.3 mm | DN & ISO 150 | — | 6 | 150*/168.3 mm |
| 8 | 216.3 JIS | — | JIS 200 A | — | — |
| | 219.1 mm | DN 200 | — | 8 | 219.1 mm |
| 10 | 267.4 JIS | — | JIS 250 A | — | — |
| | 273 mm | DN 250 | — | 10 | 273 mm |
| 12 | 318.5 JIS | — | JIS 300 A | — | — |
| | 323.9 mm | DN 300 | — | 12 | 323.9 mm |

IMPORTANT NOTE:

Nominal designations are used where the actual OD of the pipe matches the ANSI size. Otherwise both the nominal and actual OD are listed. China sizes are listed as actual OD in mm. China sizes in orange are tubing sizes.

* Nominal sizes for China standard pipe.

Design Data

Imperial (U.S.)/Metric Conversion Chart

This chart is provided as a guide for converting imperial and metric measurements provided within this catalog.

| Convert Imperial (U.S.) to Metric | | | | Convert Metric to Imperial (U.S.) | | |
|-----------------------------------|---|-------------------------------|---|-----------------------------------|---|------------------------|
| 25.4 | × | Inches (In.) | ⇔ | Millimeters (mm) | × | 0.03937 |
| 0.3048 | × | Feet (Ft.) | ⇔ | Meters (m) | × | 3.281 |
| 0.4536 | × | Pounds (Lbs.) | ⇔ | Kilograms (kg) | × | 2.205 |
| 28.35 | × | Ounces (Oz.) | ⇔ | Grams (g) | × | 0.03527 |
| 6.894 | × | Pressure (psi) | ⇔ | Kilopascals (kPa) | × | 0.145 |
| .069 | × | Pressure | ⇔ | Bar | × | 14.5 |
| 4.45 | × | End Load (Lbs.) | ⇔ | Newtons (N) | × | 0.2248 |
| 1.356 | × | Torque (Lb. Ft.) | ⇔ | Newton Meters (N•m) | × | 0.738 |
| $F - 32 \div 1.8$ | | Temp. (°F) | ⇔ | Celsius (°C) | | $C + 17.78 \times 1.8$ |
| 745.7 | × | Horsepower (hp) | ⇔ | Watts (w) | × | 1.341×10^3 |
| 3.785 | × | Gal. per Min. (GPM) | ⇔ | Liters per min. (L/M) | × | 0.2642 |
| 3.7865 | × | 10^{-3} Gal. per Min. (GPM) | ⇔ | Cubic Meters per min. (m3/m) | × | 264.2 |



Couplings

- Victaulic, the originator and innovator of grooved coupling technology, offers a variety of coupling sizes and styles for fire protection piping systems
- Victaulic developed the first UL Listed coupling in 1952 and continues to develop products that allow for faster and easier joining of pipe
- New product development continued with the introduction of the FireLock EZ® Style 009 rigid coupling and the later Style 009H rigid coupling. This installation-ready, patented coupling eliminates the need for disassembling and reassembling components during installation



FireLock EZ Rigid Coupling

STYLE 009H, PG. 3-3



FireLock® Rigid Coupling

STYLE 005, PG. 3-4



Zero-Flex® Rigid Coupling

STYLE 07, PG. 3-5



Standard Flexible Coupling

STYLE 77, PG. 3-6



Flexible Coupling

STYLE 75, PG. 3-7



Reducing Coupling

STYLE 750, PG. 3-8



GENERAL NOTES:

Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard **roll** or **cut** grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

Warning: For one time field test only, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown. **For specific pressure ratings by product, consult the individual product submittal publications.**

Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard **roll** grooved pipe. Figures for standard **cut** grooved pipe may be doubled. These figures are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾ – 3½"/20 – 90 mm; 25% for 4"/100 mm and larger.

Couplings

| Gasket Type | Style 005 | Style 009H | Style 07 | Style 77 | Style 75 | Style 750 | Style 72 † | Style HP-70 | Style 791 |
|--|-----------|------------|----------|----------|----------|-----------|------------|-------------|-----------|
| STANDARD  | ● | | ● | ● | ● | | ● | ● | ● |
| REDUCING  | | | | | | ● | | | |
| FLUSHSEAL®  | ● | | ● | ● | ● | | | | ● |
| FIRELOCK EZ®  | | ● | | | | | | | |

† Separate gasket specifically designed for outlet couplings.

FireLock® Flange Adapter
ANSI Class 150
PN10
JIS 10K
STYLE 744, PG. 3-9



Vic-Flange® Adapter
ANSI Class 150
PN10
JIS 10K
STYLE 741, PG. 3-10



Vic-Flange Adapter
ANSI Class 300
PN16
JIS 20K
STYLE 743, PG. 3-10



PRODUCTS

- 3-1 Couplings**
- 4-1 Fittings
- 5-1 AquaFlex® Sprinkler Fittings
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories
- 8-1 FireLock Automatic Devices and Accessories
- 9-1 FireLock Automatic Sprinklers
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools
- 12-1 Product Index

Outlet Coupling
STYLE 72, PG. 3-11



Available with female threaded outlets (shown) and grooved outlets

Rigid Coupling
STYLE HP-70, PG. 3-12



Vic-Boltless® Coupling
STYLE 791 COUPLING AND
STYLE 792 ASSEMBLY TOOL,
PG. 3-12



Couplings

FireLock EZ® Rigid Coupling

STYLE 009H

For Complete Information
Request Publication 10.61



- Provides rigidity; does not accommodate expansion, contraction or angular deflection
- Installation-ready design – assemble a joint without disassembling the bolts, nuts, gasket and housings
- For use in fire protection systems only
- Reduces installation time up to 60%
- Available with hot dipped galvanized finish
- Proprietary gasket design
- Rated up to 365 psi/2517 kPa – see submittal publication 10.61 for complete performance ratings
- Sizes from 1¼–4"/32–100 mm

| Size | | Max. Work. Press. * | Max. End Load * | Allow. Pipe End Sep. † | @ Bolt/Nut No. – Size | Dimensions – Inches/mm | | | | | Aprx. Wgt. Ea. |
|------------------------------|-------------------------------------|---------------------|-----------------|------------------------|----------------------------|-----------------------------------|-------------|-----------------|-------------|------------|----------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | Inches mm | Inches | Pre-assembled (Stab in condition) | | Joint Assembled | | | Lbs. kg |
| | | | | | | X | Y | X | Y | Z | |
| 1¼ 32 | 1.660 42.4 | 365 2517 | 790 3514 | 0.10 2.54 | 2 - ¾ x 2 - M10 x 2 | 2.95 75 | 4.77 121 | 2.70 69 | 4.63 118 | 1.93 49 | 1.4 0.7 |
| 1½ 40 | 1.900 48.3 | 365 2517 | 1035 4604 | 0.10 2.54 | 2 - ¾ x 2 - M10 x 2 | 3.19 81 | 4.97 126 | 2.94 75 | 4.79 122 | 1.93 49 | 1.5 0.7 |
| 2 50 | 2.375 60.3 | 365 2517 | 1616 7193 | 0.12 3.05 | 2 - ¾ x 2 - M10 x 2 | 3.79 96 | 5.53 140 | 3.45 88 | 5.42 138 | 1.93 49 | 1.9 0.9 |
| 2½ 65 | 2.875 73.0 | 365 2517 | 2370 10542 | 0.12 3.05 | 2 - ¾ x 2 ½ - M10 x 2 ½ | 4.29 109 | 6.09 155 | 3.92 100 | 5.85 149 | 1.93 49 | 2.1 1.0 |
| 76.1 mm | 3.000 76.1 | 365 2517 | 2580 11476 | 0.12 3.05 | 2 - ¾ x 2 ½ - M10 x 2 ½ | 4.40 112 | 6.31 160 | 4.05 103 | 5.90 150 | 1.93 49 | 2.1 1.0 |
| 3 80 | 3.500 88.9 | 365 2517 | 3512 15622 | 0.12 3.05 | 2 - ¾ x 2 ½ - M10 x 2 ½ | 4.91 125 | 6.70 170 | 4.55 116 | 6.46 164 | 1.93 49 | 2.3 1.0 |
| 4 100 | 4.500 114.3 | 365 2517 | 5805 25822 | 0.17 4.32 | 2 - ¾ x 2 ½ - M10 x 2 ½ | 5.95 151 | 7.82 199 | 5.54 141 | 7.47 190 | 2.14 55 | 2.9 1.3 |

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard roll or cut grooved in accordance with Victaulic specifications. See page 1 of this document for Listed/Approved ratings on other pipe.

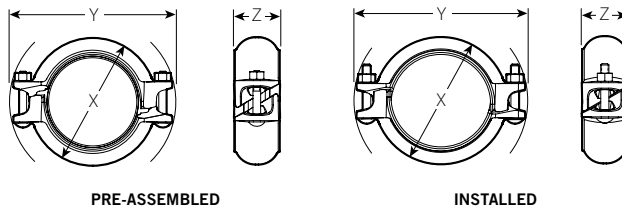
WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown in the chart on page 1, specific to pipe schedule and size.

† The allowable pipe separation dimension shown is for system layout purposes only. FireLock EZ® couplings are considered rigid connections and will not accommodate expansion or contraction of the piping system.

@ Number of bolts required equals number of housing segments.

IMPORTANT NOTES:

When assembling FireLock EZ couplings onto end caps, take additional care to make certain the end cap is fully seated against the gasket end stop. For FireLock EZ Style 009H couplings, use FireLock® No. 006 end caps containing the "EZ" marking on the inside face or No. 60 end caps containing the "QV EZ" marking on the inside face. Non-Victaulic end cap products should not be used with Style 009H couplings.



PRE-ASSEMBLED

INSTALLED

Couplings

FireLock® Rigid Coupling

STYLE 005

For Complete Information
Request Publication 10.02



- Unique angle-pad design for rigidity
- Allows supporting/hanging same as welded or threaded in accordance with NFPA-13 requirements
- For use in fire protection services only
- Available with hot dipped galvanized finish
- Pressure rated up to 350 psi/2410 kPa
- Sizes from 1¼–8"/32–200mm

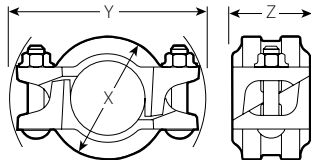
| Size | | Max. Work Pressure §* | Max. End Load * | Allow. Pipe End Sep. †** | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|-----------------------|-----------------|--------------------------|------------------------|--------------|------------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | Inches mm | X | Y | Z | Lbs. kg |
| 1¼ 32 | 1.660 42.4 | 350 2410 | 755 3370 | 0.05 1.2 | 2.75 70 | 4.50 114 | 1.88 48 | 1.2 0.5 |
| 1½ 40 | 1.900 48.3 | 350 2410 | 990 4415 | 0.05 1.2 | 3.00 76 | 4.75 121 | 1.88 48 | 1.2 0.5 |
| 2 50 | 2.375 60.3 | 350 2410 | 1550 6900 | 0.07 1.7 | 3.50 89 | 5.25 133 | 1.88 48 | 1.6 0.7 |
| 2½ 65 | 2.875 73.0 | 350 2410 | 2270 10110 | 0.07 1.7 | 4.00 102 | 5.75 146 | 1.88 48 | 1.9 0.9 |
| 76.1 mm | 3.000 76.1 | 350 2410 | 2475 11010 | 0.07 1.7 | 4.13 105 | 5.75 146 | 1.88 48 | 1.9 0.9 |
| 3 80 | 3.500 88.9 | 350 2410 | 3365 14985 | 0.07 1.7 | 4.63 118 | 6.13 156 | 1.88 48 | 2.1 1.0 |
| 4** 100 | 4.500 114.3 | 350 2410 | 5565 24770 | 0.16 4.1 | 5.75 146 | 7.25 184 | 2.13 54 | 3.1 1.4 |
| 108.0 mm | 4.250 108.0 | 300 2065 | 4255 18940 | 0.16 4.1 | 5.63 143 | 7.25 184 | 2.13 54 | 3.1 1.4 |
| 5 125 | 5.563 141.3 | 300 2065 | 7290 32445 | 0.16 4.1 | 6.88 175 | 9.00 229 | 2.13 54 | 4.5 2.0 |
| 133.0 mm | 5.250 133.0 | 300 2065 | 6495 28900 | 0.16 4.1 | 6.63 168 | 9.00 229 | 2.13 54 | 4.5 2.0 |
| 139.7 mm | 5.500 139.7 | 300 2065 | 7125 31715 | 0.16 4.1 | 6.88 175 | 9.00 229 | 2.13 54 | 4.8 2.2 |
| 6 150 | 6.625 168.3 | 300 2065 | 10340 46020 | 0.16 4.1 | 8.00 203 | 10.00 254 | 2.13 54 | 5.0 2.3 |
| 159.0 mm | 6.250 159.0 | 300 2065 | 9200 40955 | 0.16 4.1 | 7.63 194 | 10.00 254 | 2.13 54 | 5.5 2.5 |
| 165.1 mm | 6.500 165.1 | 300 2065 | 9955 44295 | 0.16 4.1 | 8.15 207 | 10.00 254 | 2.13 54 | 5.5 2.5 |
| 8** 200 | 8.625 219.1 | 300 2065 | 17525 78000 | 0.19 4.8 | 10.50 267 | 13.13 334 | 2.63 67 | 11.3 5.1 |

† For field installation only. FireLock Style 005 couplings are essentially rigid and do not accommodate expansion/contraction.

§ Style 005 couplings are VdS and LPCB Approved to 12 Bar/175 psi.

* Refer to General Notes on pg.3-1.

** Korea MPI Approved



TYPICAL FOR ALL SIZES

Couplings

Zero-Flex® Rigid Coupling

STYLE 07

For Complete Information
Request Publication **06.02**



- Angled-pad design for rigidity
- Resists flexural and torsional loads
- Pressure rated up to 500 psi/3450 kPa
- Sizes from 1 – 12"/25 – 300 mm

| Size | | Max. Work Pressure ‡ | Max. End Load * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|------------------------|------------------------|-------|------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | Inches mm | X | Y | Z | Lbs. kg |
| 1 | 1.315 | 500 | 679 | 0.05 | 2.36 | 4.22 | 1.84 | 1.6 |
| 25 | 33.7 | 3450 | 3020 | 1.2 | 60 | 107 | 47 | 0.7 |
| 1¼ | 1.660 | 500 | 1082 | 0.05 | 2.69 | 4.62 | 1.84 | 1.6 |
| 32 | 42.4 | 3450 | 4813 | 1.2 | 68 | 117 | 47 | 0.7 |
| 1½ | 1.900 | 500 | 1417 | 0.05 | 2.94 | 5.81 | 1.84 | 1.6 |
| 40 | 48.3 | 3450 | 6305 | 1.2 | 75 | 148 | 47 | 0.7 |
| 2 | 2.375 | 500 | 2214 | 0.07 | 3.35 | 5.78 | 1.84 | 2.3 |
| 50 | 60.3 | 3450 | 9852 | 1.7 | 85 | 147 | 47 | 1.0 |
| 2½ | 2.875 | 500 | 3244 | 0.07 | 3.88 | 6.38 | 1.84 | 2.6 |
| 65 | 73.0 | 3450 | 14437 | 1.7 | 98 | 162 | 47 | 1.2 |
| 76.1 mm | 3.000 | 500 | 3533 | 0.07 | 4.21 | 6.61 | 1.84 | 3.6 |
| | 76.1 | 3450 | 15720 | 1.7 | 107 | 168 | 47 | 1.6 |
| 3 | 3.500 | 500 | 4808 | 0.07 | 4.54 | 6.81 | 1.84 | 3.0 |
| 80 | 88.9 | 3450 | 21396 | 1.7 | 115 | 173 | 47 | 1.4 |
| 4 ** | 4.500 | 500 | 7948 | 0.16 | 5.81 | 8.21 | 2.07 | 5.3 |
| 100 | 114.3 | 3450 | 35369 | 4.1 | 148 | 209 | 53 | 2.4 |
| 108.0 mm | 4.250 | 500 | 7090 | 0.16 | 5.56 | 7.98 | 2.07 | 5.2 |
| | 108.0 | 3450 | 31548 | 4.1 | 141 | 203 | 53 | 2.4 |
| 5 | 5.563 | 500 | 12147 | 0.16 | 7.03 | 9.89 | 2.07 | 7.4 |
| 125 | 141.3 | 3450 | 54053 | 4.1 | 179 | 251 | 53 | 3.4 |
| 133.0 mm | 5.250 | 500 | 10818 | 0.16 | 6.69 | 9.60 | 2.07 | 7.4 |
| | 133.0 | 3450 | 48141 | 4.1 | 170 | 244 | 53 | 3.4 |
| 139.7 mm | 5.500 | 500 | 11873 | 0.16 | 6.94 | 9.82 | 2.07 | 7.6 |
| | 139.7 | 3450 | 52835 | 4.1 | 176 | 249 | 53 | 3.4 |
| 6 | 6.625 | 500 | 17227 | 0.16 | 8.26 | 10.83 | 2.07 | 8.3 |
| 150 | 168.3 | 3450 | 76660 | 4.1 | 210 | 275 | 53 | 3.8 |
| 159.0 mm | 6.250 | 500 | 15332 | 0.16 | 7.84 | 10.54 | 2.07 | 9.2 |
| | 159.0 | 3450 | 68228 | 4.1 | 199 | 268 | 53 | 4.2 |
| 165.1 mm | 6.500 | 500 | 16583 | 0.16 | 8.13 | 10.84 | 2.07 | 8.3 |
| | 165.1 | 3450 | 73795 | 4.1 | 207 | 275 | 53 | 3.8 |
| 8 ** | 8.625 | 450 | 26278 | 0.19 | 10.54 | 13.74 | 2.51 | 15.1 |
| 200 | 219.1 | 3100 | 116939 | 4.8 | 268 | 349 | 64 | 6.8 |
| 10 #@ | 10.750 | 400 | 36287 | 0.13 | 12.86 | 16.98 | 2.56 | 23.5 |
| 250 | 273.0 | 2750 | 161475 | 3.3 | 327 | 431 | 65 | 10.7 |
| 12 #@ | 12.750 | 400 | 51045 | 0.13 | 14.86 | 18.88 | 2.56 | 28.2 |
| 300 | 323.9 | 2750 | 227149 | 3.3 | 377 | 480 | 65 | 12.8 |

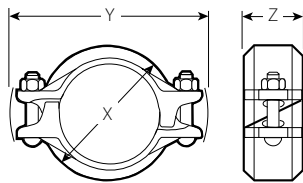
‡ Pressure ratings for Victaulic couplings used in services other than fire protection will differ from the ratings published here. Please consult the individual product submittal for specific pressure rating information.

* Refer to General Notes on pg. 3-1.

Couplings in 8"/200mm, 10"/250mm and 12"/300mm sizes are approved for JIS piping standards

@ Only couplings in 10"/250mm and 12"/300mm sizes are approved for use in China

** Korea MPI Approved



TYPICAL FOR ALL SIZES

Couplings

Standard Flexible Coupling

STYLE 77

For Complete Information
Request Publication **06.04**



- Cross-ribbed construction design
- Provides flexibility for expansion, contraction, and deflection
- Pressure rated up to 500 psi/3450 kPa
- Sizes from 3/4"–12"/20–300 mm

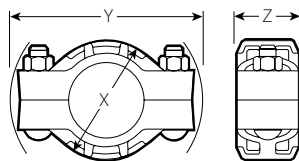
| Size | | Max. Work Pressure ‡ | Max. End Load * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|------------------------|------------------------|-------|------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | Inches mm | X | Y | Z | Lbs. kg |
| 3/4 | 1.050 | 1,000 | 865 | 0 – 0.06 | 2.13 | 4.00 | 1.75 | 1.1 |
| 20 | 26.7 | 6900 | 3850 | 0 – 1.6 | 54 | 102 | 44 | 0.5 |
| 1 | 1.315 | 1,000 | 1,360 | 0 – 0.06 | 2.38 | 4.12 | 1.75 | 1.2 |
| 25 | 33.4 | 6900 | 6050 | 0 – 1.6 | 61 | 105 | 44 | 0.5 |
| 1 1/4 | 1.660 | 1,000 | 2,160 | 0 – 0.06 | 2.65 | 5.00 | 1.88 | 2.0 |
| 32 | 42.2 | 6900 | 9610 | 0 – 1.6 | 67 | 127 | 48 | 0.9 |
| 1 1/2 | 1.900 | 1,000 | 2,835 | 0 – 0.06 | 3.13 | 5.38 | 1.88 | 2.1 |
| 40 | 48.3 | 6900 | 12615 | 0 – 1.6 | 79 | 137 | 48 | 1.0 |
| 2 | 2.375 | 1,000 | 4,430 | 0 – 0.06 | 3.63 | 5.88 | 1.88 | 2.6 |
| 50 | 60.3 | 6900 | 19715 | 0 – 1.6 | 92 | 149 | 48 | 1.2 |
| 2 1/2 | 2.875 | 1,000 | 6,490 | 0 – 0.06 | 4.25 | 6.50 | 1.88 | 3.1 |
| 65 | 73.0 | 6900 | 28880 | 0 – 1.6 | 108 | 165 | 48 | 1.4 |
| 76.1 mm | 3.000 | 1,000 | 7,070 | 0 – 0.06 | 4.38 | 6.63 | 1.88 | 3.2 |
| | 76.1 | 6900 | 31460 | 0 – 1.6 | 111 | 168 | 48 | 1.5 |
| 3 | 3.500 | 1,000 | 9,620 | 0 – 0.06 | 5.00 | 7.13 | 1.88 | 3.7 |
| 80 | 88.9 | 6900 | 46810 | 0 – 1.6 | 127 | 181 | 48 | 1.7 |
| 4 ** | 4.500 | 1,000 | 15,900 | 0 – 0.13 | 6.13 | 8.88 | 2.13 | 6.7 |
| 100 | 114.3 | 6900 | 70755 | 0 – 3.2 | 156 | 226 | 54 | 3.0 |
| 108.0mm | 4.250 | 1,000 | 14,180 | 0 – 0.13 | 6.00 | 8.63 | 2.13 | 11.0 |
| | 108.0 | 6900 | 63100 | 0 – 3.2 | 152 | 219 | 54 | 5.0 |
| 5 | 5.563 | 1,000 | 24,300 | 0 – 0.13 | 7.75 | 10.65 | 2.13 | 10.6 |
| 125 | 141.3 | 6900 | 108135 | 0 – 3.2 | 197 | 270 | 54 | 4.8 |
| 133.0mm | 5.250 | 1,000 | 21,635 | 0 – 0.13 | 7.63 | 10.38 | 2.13 | 10.0 |
| | 133.0 | 6900 | 96275 | 0 – 3.2 | 194 | 264 | 54 | 4.5 |
| 139.7mm | 5.500 | 1,000 | 23,745 | 0 – 0.13 | 8.63 | 10.65 | 2.13 | 10.0 |
| | 139.7 | 6900 | 105665 | 0 – 3.2 | 219 | 270 | 54 | 4.5 |
| 6 | 6.625 | 1,000 | 34,470 | 0 – 0.13 | 8.63 | 11.88 | 2.13 | 12.0 |
| 150 | 168.3 | 6900 | 153390 | 0 – 3.2 | 219 | 302 | 54 | 5.4 |
| 159.0mm | 6.250 | 1,000 | 30,665 | 0 – 0.13 | 8.63 | 11.50 | 2.13 | 13.2 |
| | 159.0 | 6900 | 136460 | 0 – 3.2 | 219 | 292 | 54 | 6.0 |
| 165.1 mm | 6.500 | 1,000 | 33,185 | 0 – 0.13 | 8.88 | 11.63 | 2.13 | 13.2 |
| | 165.1 | 6900 | 147660 | 0 – 3.2 | 226 | 295 | 54 | 6.0 |
| 8 # | 8.625 | 800 | 46,740 | 0 – 0.13 | 11.00 | 14.75 | 2.50 | 20.8 |
| 200 | 219.1 | 5500 | 207995 | 0 – 3.2 | 279 | 375 | 63 | 9.4 |
| 10 # | 10.750 | 800 | 73,280 | 0 – 0.13 | 13.63 | 17.13 | 2.63 | 31.1 |
| 250 | 273.0 | 5500 | 326100 | 0 – 3.2 | 346 | 435 | 67 | 14.1 |
| 12 # | 12.750 | 800 | 102,000 | 0 – 0.13 | 15.63 | 19.25 | 2.63 | 27.8 |
| 300 | 323.9 | 5500 | 453900 | 0 – 3.2 | 397 | 489 | 67 | 12.6 |

‡ Pressure ratings for Victaulic couplings used in services other than fire protection will differ from the ratings published here. Please consult the individual product submittal for specific pressure rating information.

* Refer to General Notes on pg. 3-1.

Couplings in 8"/200mm, 10"/250mm and 12"/300mm sizes are approved for JIS piping standards

** Korea MPI Approved



TYPICAL FOR ALL SIZES

Couplings

Flexible Coupling

STYLE 75

For Complete Information
Request Publication **06.05**

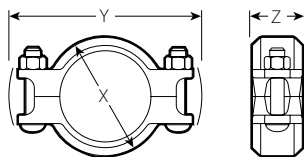


- For use where moderate pressures are expected and weight considerations are flexibility factors
- 50% lighter in weight than Style 77
- Pressure rated up to 500psi/3450kPa
- Sizes from 1–8"/25–304.8mm

| Size | | Max. Work Pressure * | Max. End Load * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|------------------------|------------------------|-------|------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | Inches mm | X | Y | Z | Lbs. kg |
| 1 | 1.315 | 500 | 680 | 0 – 0.06 | 2.38 | 4.27 | 1.77 | 1.3 |
| 25 | 33.4 | 3450 | 3025 | 0 – 1.6 | 61 | 108 | 45 | 0.6 |
| 1¼ | 1.660 | 500 | 1,080 | 0 – 0.06 | 2.68 | 4.61 | 1.77 | 1.4 |
| 32 | 42.2 | 3450 | 4805 | 0 – 1.6 | 68 | 117 | 45 | 0.6 |
| 1½ | 1.900 | 500 | 1,420 | 0 – 0.06 | 2.91 | 4.82 | 1.77 | 1.5 |
| 40 | 48.3 | 3450 | 6320 | 0 – 1.6 | 74 | 122 | 45 | 0.6 |
| 2 | 2.375 | 500 | 2,215 | 0 – 0.06 | 3.43 | 5.22 | 1.88 | 1.7 |
| 50 | 60.3 | 3450 | 9860 | 0 – 1.6 | 87 | 133 | 48 | 0.8 |
| 2½ | 2.875 | 500 | 3,245 | 0 – 0.06 | 3.88 | 5.68 | 1.88 | 1.9 |
| 65 | 73.0 | 3450 | 14440 | 0 – 1.6 | 98 | 144 | 48 | 0.9 |
| 76.1 mm | 3.000 | 500 | 3,535 | 0 – 0.06 | 4.00 | 5.90 | 1.88 | 1.9 |
| | 76.1 | 3450 | 15730 | 0 – 1.6 | 102 | 150 | 48 | 0.9 |
| 3 | 3.500 | 500 | 4,800 | 0 – 0.06 | 4.50 | 7.00 | 1.88 | 2.9 |
| 80 | 88.9 | 3450 | 21360 | 0 – 1.6 | 114 | 178 | 48 | 1.3 |
| 3½ | 4.000 | 500 | 6,300 | 0 – 0.06 | 5.00 | 7.50 | 1.88 | 2.9 |
| 90 | 101.6 | 3450 | 28035 | 0 – 1.6 | 127 | 191 | 48 | 1.3 |
| 4 ** | 4.500 | 500 | 7,950 | 0 – 0.13 | 5.80 | 8.03 | 2.13 | 4.1 |
| 100 | 114.3 | 3450 | 35380 | 0 – 3.2 | 147 | 204 | 54 | 1.9 |
| 108.0 mm | 4.250 | 450 | 6,380 | 0 – 0.13 | 5.55 | 7.79 | 2.13 | 3.7 |
| | 108.0 | 3100 | 28395 | 0 – 3.2 | 141 | 198 | 54 | 1.7 |
| 127.0 mm | 5.000 | 450 | 8,820 | 0 – 0.13 | 6.13 | 9.43 | 2.13 | 5.5 |
| | 127.0 | 3100 | 39250 | 0 – 3.2 | 156 | 240 | 54 | 2.5 |
| 5 | 5.563 | 450 | 10,935 | 0 – 0.13 | 6.88 | 10.07 | 2.13 | 5.8 |
| 125 | 141.3 | 3100 | 48660 | 0 – 3.2 | 175 | 256 | 54 | 2.6 |
| 133.0 mm | 5.250 | 450 | 9,735 | 0 – 0.13 | 6.55 | 9.37 | 2.13 | 6.0 |
| | 133.0 | 3100 | 43325 | 0 – 3.2 | 166 | 238 | 54 | 2.7 |
| 139.7 mm | 5.500 | 450 | 10,665 | 0 – 0.13 | 6.80 | 9.59 | 2.13 | 6.3 |
| | 139.7 | 3100 | 47460 | 0 – 3.2 | 173 | 244 | 54 | 2.9 |
| 6 | 6.625 | 450 | 15,525 | 0 – 0.13 | 8.00 | 11.07 | 2.13 | 7.0 |
| 150 | 168.3 | 3100 | 69085 | 0 – 3.2 | 203 | 281 | 54 | 3.2 |
| 152.4 mm | 6.000 | 450 | 12,735 | 0 – 0.13 | 7.38 | 10.48 | 1.88 | 6.2 |
| | 152.4 | 3100 | 56670 | 0 – 3.2 | 187 | 266 | 48 | 2.8 |
| 159.0 mm | 6.250 | 450 | 13,800 | 0 – 0.13 | 7.63 | 10.49 | 2.13 | 6.8 |
| | 159.0 | 3100 | 61405 | 0 – 3.2 | 194 | 266 | 54 | 3.1 |
| 165.1 mm | 6.500 | 450 | 14,940 | 0 – 0.13 | 7.84 | 10.66 | 2.06 | 7.2 |
| | 165.1 | 3100 | 66483 | 0 – 3.2 | 199 | 271 | 52 | 3.3 |
| 8 ** | 8.625 | 450 | 26,280 | 0 – 0.13 | 10.34 | 13.97 | 2.32 | 12.4 |
| 200 | 219.1 | 3100 | 116945 | 0 – 3.2 | 263 | 355 | 59 | 5.6 |

* Refer to General Notes on pg. 3-1.

** Korea MPI Approved



TYPICAL FOR ALL SIZES

Couplings

Reducing Coupling

STYLE 750

For Complete Information
Request Publication **06.08**



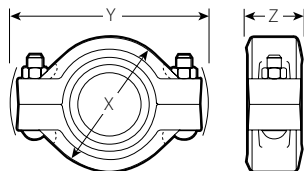
- Direct reduction on the piping run
- Designed to replace two couplings and a reducing fitting
- Special reducing gasket for pressure responsive sealing
- Pressure rated up to 350 psi/2410 kPa
- Sizes from 2×1"/50×25mm through 8×6"/200×150mm

| Size | | Max. Work Pressure * | Max. End Load * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------------|----------|----------------------|-----------------|------------------------|------------------------|-------|------|-------------------|
| Nominal Size Inches mm | | psi kPa | Lbs. N | Inches mm | X | Y | Z | Lbs. kg |
| 2 50 | 1 25 | 350 | 1,000 | 0 – 0.07 | 3.38 | 5.28 | 1.88 | 2.7 |
| | | 2410 | 4450 | 0 – 1.8 | 85 | 134 | 48 | 1.2 |
| | 1½ 40 | 350 | 1,000 | 0 – 0.07 | 3.38 | 5.28 | 1.88 | 2.0 |
| | | 2410 | 4450 | 0 – 1.8 | 85 | 134 | 48 | 1.0 |
| 2½ 65 | 2 50 | 350 | 2,215 | 0 – 0.07 | 4.00 | 5.93 | 1.88 | 3.1 |
| | | 2410 | 9850 | 0 – 1.8 | 102 | 151 | 48 | 1.4 |
| 76.1 | 2 50 | 350 | 1,550 | 0 – 0.07 | 4.38 | 6.00 | 1.88 | 4.6 |
| | | 2410 | 6900 | 0 – 1.8 | 111 | 152 | 48 | 2.1 |
| 3 80 | 2 50 | 350 | 1,550 | 0 – 0.07 | 4.75 | 7.13 | 1.88 | 4.9 |
| | | 2410 | 6900 | 0 – 1.8 | 121 | 181 | 48 | 2.2 |
| | 2½ 65 | 350 | 3,250 | 0 – 0.07 | 4.75 | 7.13 | 1.88 | 4.3 |
| | | 2410 | 14460 | 0 – 1.8 | 121 | 181 | 48 | 2.0 |
| 88.9 | 76.1 | 350 | 2,275 | 0 – 0.07 | 4.75 | 7.13 | 1.88 | 4.2 |
| | | 2410 | 10125 | 0 – 1.8 | 121 | 181 | 48 | 1.9 |
| 4 100 | 2 50 | 350 | 1,550 | 0 – 0.13 | 6.25 | 8.90 | 2.25 | 8.1 |
| | | 2410 | 6900 | 0 – 3.2 | 159 | 226 | 57 | 3.7 |
| | 2½ 65 | 350 | 2,275 | 0 – 0.13 | 6.25 | 8.90 | 2.25 | 8.6 |
| | | 2410 | 10125 | 0 – 3.2 | 159 | 226 | 57 | 3.9 |
| 3 80 | 3 80 | 350 | 4,810 | 0 – 0.13 | 6.00 | 8.90 | 2.25 | 6.7 |
| | | 2410 | 21400 | 0 – 3.2 | 152 | 226 | 57 | 3.0 |
| 114.3 | 76.1 | 350 | 2,275 | 0 – 0.13 | 6.25 | 8.90 | 2.25 | 6.9 |
| | | 2410 | 10125 | 0 – 3.2 | 159 | 226 | 57 | 3.1 |
| 5 125 | 4 100 | 350 | 5,565 | 0 – 0.13 | 7.18 | 10.70 | 2.13 | 11.2 |
| | | 2410 | 24765 | 0 – 3.2 | 182 | 272 | 54 | 5.1 |
| 6 150 | 4 100 | 350 | 5,565 | 0 – 0.13 | 8.63 | 11.90 | 2.25 | 16.7 |
| | | 2410 | 24765 | 0 – 3.2 | 219 | 302 | 57 | 7.6 |
| | 5 125 | 350 | 8,500 | 0 – 0.13 | 8.31 | 11.90 | 2.25 | 12.9 |
| | | 2410 | 37825 | 0 – 3.2 | 211 | 302 | 57 | 5.9 |
| 165.1 | 4 100 | 350 | 5,565 | 0 – 0.13 | 8.63 | 11.90 | 2.25 | 15.2 |
| | | 2410 | 24765 | 0 – 3.2 | 219 | 302 | 57 | 6.9 |
| 8 200 | 6 150 | 350 | 12,000 | 0 – 0.13 | 10.81 | 14.88 | 2.50 | 22.4 |
| | | 2410 | 53400 | 0 – 3.2 | 275 | 378 | 64 | 10.2 |

* Refer to General Notes on pg. 3-1.

IMPORTANT NOTES:

No. 60 Cap is not for use in vacuum services with Style 72 or 750 couplings. No. 61 bull plug should be used.



TYPICAL FOR ALL SIZES

Couplings

FireLock® Flange Adapter
ANSI Class 150
PN10
JIS 10K

STYLE 744

For Complete Information
Request Publication 10.04



- Directly incorporates ANSI Class 150, PN10, JIS 10K or ANSI Class 300, PN16, JIS 20K bolt hole patterns into a grooved system
- Hinged for easy handling with integral end tabs which facilitate assembly
- Small teeth inside the key shoulder inside diameter prevent rotation
- Pressure rated up to 175psi/1200kPa
- Sizes from 2–8"/50–200mm

| Size | | Max. Work Pressure * | Max. End Load * | Sealing Surface | | Dimensions | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|---------------------------|---------------------------|-------------------|-------------------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | A Max. Inches mm | B Min. Inches mm | W Inches mm | Z Inches mm | Lbs. kg |
| 2 50 | 2.375 60.3 | 175 1200 | 775 3450 | 2.38 60 | 3.41 87 | 6.75 172 | 0.75 19 | 2.7 1.2 |
| 2 ½ 65 | 2.875 73.0 | 175 1200 | 1135 5050 | 2.88 73 | 3.91 99 | 7.88 200 | 0.88 22 | 4.2 1.9 |
| 3 80 | 3.500 88.9 | 175 1200 | 1685 7500 | 3.50 89 | 4.53 115 | 8.44 214 | 0.94 24 | 4.8 2.2 |
| 4 100 | 4.500 114.3 | 175 1200 | 2780 11045 | 4.50 114 | 5.53 141 | 9.94 252 | 0.94 24 | 7.1 3.2 |
| 5 125 | 5.563 141.3 | 175 1200 | 4250 18920 | 5.56 141 | 6.71 171 | 11.00 279 | 1.00 25 | 8.3 3.8 |
| 6 150 | 6.625 168.3 | 175 1200 | 6030 26840 | 6.63 168 | 7.78 198 | 12.00 305 | 1.00 25 | 9.3 4.2 |
| 8 200 | 8.625 219.1 | 175 1200 | 10219 45475 | 8.63 219 | 9.94 252 | 14.63 372 | 1.13 29 | 13.9 6.3 |

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight steel pipe, standard **roll** or **cut** grooved in accordance with Victaulic specification. Contact Victaulic for performance on other pipe.

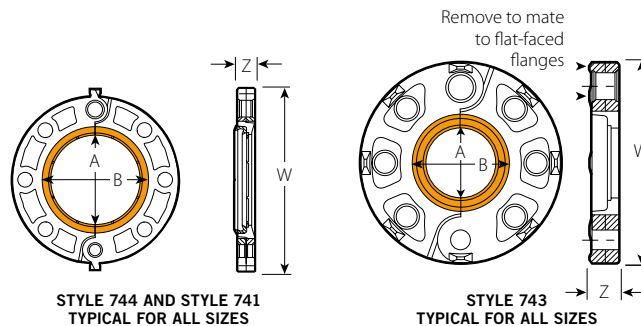
IMPORTANT NOTES

WARNING: For one time field test only, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

Style 744 FireLock Flange adapters provide rigid joints when used on pipe with standard roll or cut groove dimensions and consequently allow no linear or angular movement at the joint.

WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

Style 744 FireLock Flange adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used with Victaulic Series 765/705W/707 butterfly valves, plastic pipe or lightwall metallic pipe, small teeth in inside diameter of key section should be removed and may be used on one side of the valve.



Orange area of mating face must be free from gouges, undulations or deformities of any type for effective sealing.

Couplings

Vic-Flange® Adapter ANSI Class 300 PN16 JIS 20K

STYLE 741

For Complete Information
Request Publication 06.06



- Directly incorporates ANSI Class 150 PN10 JIS 10K or ANSI Class 300 PN16 JIS 20K flanged components into a grooved system
- Pressure rated up to 250psi/1725 kPa
- Sizes from 2–12"/50–300mm (hinged)

| Size | | Max. Work Pressure * | Max. End Load * | Sealing Surface | | Dimensions | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|---------------------------|---------------------------|-------------------|-------------------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | A Max. Inches mm | B Min. Inches mm | W Inches mm | Z Inches mm | Lbs. kg |
| 2 | 2.375 | 300 | 1,330 | 2.38 | 3.41 | 6.75 | 0.75 | 3.1 |
| 50 | 60.3 | 2065 | 5920 | 60 | 87 | 172 | 19 | 1.4 |
| 2½ | 2.875 | 300 | 1,950 | 2.88 | 3.91 | 7.87 | 0.88 | 4.8 |
| 65 | 73.0 | 2065 | 8680 | 73 | 99 | 200 | 22 | 2.1 |
| 3 | 3.500 | 300 | 2,885 | 3.50 | 4.53 | 8.29 | 0.94 | 5.3 |
| 80 | 88.9 | 2065 | 12840 | 89 | 115 | 211 | 24 | 2.4 |
| 4 | 4.500 | 300 | 4,770 | 4.50 | 5.53 | 9.87 | 0.94 | 7.4 |
| 100 | 114.3 | 2065 | 21225 | 114 | 141 | 251 | 24 | 3.4 |
| 5 | 5.563 | 300 | 7,290 | 5.56 | 6.71 | 10.90 | 1.00 | 8.6 |
| 125 | 141.3 | 2065 | 32440 | 141 | 171 | 277 | 25 | 3.9 |
| 6 | 6.625 | 300 | 10,350 | 6.63 | 7.78 | 11.90 | 1.00 | 9.9 |
| 150 | 168.3 | 2065 | 46060 | 168 | 198 | 302 | 25 | 4.5 |
| 165.1 mm | 6.500 | 300 | 9,960 | 6.50 | 7.66 | 11.92 | 1.00 | 10.0 |
| | 165.1 | 2065 | 44320 | 165 | 195 | 303 | 25 | 4.5 |
| 8 | 8.625 | 300 | 17,500 | 8.63 | 9.94 | 14.50 | 1.13 | 16.6 |
| 200 | 219.1 | 2065 | 77875 | 219 | 252 | 368 | 29 | 7.5 |
| 10 | 10.750 | 300 | 27,215 | 10.75 | 12.31 | 17.24 | 1.19 | 24.2 |
| 250 | 273.0 | 2065 | 121110 | 273 | 313 | 438 | 30 | 11.0 |
| 12 | 12.750 | 300 | 38,285 | 12.75 | 14.31 | 20.25 | 1.25 | 46.8 |
| 300 | 323.9 | 2065 | 170270 | 324 | 364 | 514 | 32 | 21.2 |

* Refer to Publication 06.06 for more details.

IMPORTANT NOTES:

Style 741 Vic-Flange adapters provide rigid joints when used on pipe with standard cut or roll groove dimensions and consequently allow no linear or angular movement at the joint. When used with Victaulic Series 765/705W/707 butterfly valves, plastic pipe or lightwall metallic pipe, small teeth in I.D. of key section should be removed and may be used on one side of the valve. Total bolts required to be supplied by installer, may be ordered from Victaulic Company.

For restrictions on where and how Vic-Flange adapters and flange washers can be used, refer to Publication 06.06.

Vic-Flange Adapter ANSI Class 300 PN16 JIS 20K

STYLE 743

For Complete Information
Request Publication 06.06



- Pressure rated up to 500psi/3450 kPa
- Sizes from 2–12"/50–300mm

| Size | | Max. Work Pressure * | Max. End Load * | Sealing Surface | | Dimensions | | Approx. Wgt. Each |
|------------------------------|-------------------------------------|----------------------|-----------------|---------------------------|---------------------------|-------------------|-------------------|-------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | psi kPa | Lbs. N | A Max. Inches mm | B Min. Inches mm | W Inches mm | Z Inches mm | Lbs. kg |
| 2 | 2.375 | 720 | 3,190 | 2.38 | 3.41 | 7.70 | 0.93 | 4.8 |
| 50 | 60.3 | 4960 | 14200 | 60 | 87 | 196 | 24 | 2.2 |
| 2½ | 2.875 | 720 | 4,670 | 2.88 | 3.91 | 8.61 | 1.06 | 7.4 |
| 65 | 73.0 | 4960 | 20780 | 73 | 99 | 219 | 27 | 3.4 |
| 3 | 3.500 | 720 | 6,925 | 3.50 | 4.53 | 9.48 | 1.18 | 9.1 |
| 80 | 88.9 | 4960 | 30815 | 89 | 115 | 241 | 30 | 4.1 |
| 4 | 4.500 | 720 | 11,445 | 4.50 | 5.53 | 11.35 | 1.31 | 15.3 |
| 100 | 114.3 | 4960 | 50930 | 114 | 141 | 288 | 33 | 6.9 |
| 5 | 5.563 | 720 | 17,500 | 5.56 | 6.72 | 12.31 | 1.43 | 17.7 |
| 125 | 141.3 | 4960 | 77875 | 141 | 171 | 313 | 36 | 8.0 |
| 6 | 6.625 | 720 | 24,805 | 6.63 | 7.78 | 13.77 | 1.50 | 23.4 |
| 150 | 168.3 | 4960 | 110380 | 168 | 198 | 350 | 38 | 10.6 |
| 8 | 8.625 | 720 | 42,045 | 8.63 | 9.94 | 16.68 | 1.68 | 34.3 |
| 200 | 219.1 | 4960 | 187100 | 219 | 252 | 424 | 43 | 15.6 |
| 10 | 10.750 | 720 | 65,315 | 10.75 | 12.31 | 19.25 | 1.93 | 48.3 |
| 250 | 273.0 | 4960 | 290650 | 273 | 313 | 489 | 49 | 21.9 |
| 12 | 12.750 | 720 | 91,880 | 12.75 | 14.31 | 22.25 | 2.06 | 70.5 |
| 300 | 323.9 | 4960 | 408870 | 324 | 363 | 565 | 52 | 32.0 |

* Refer to Publication 06.06 for more details.

IMPORTANT NOTES:

Style 743 Vic-Flange must be ordered as a factory assembly when connected to a Victaulic fitting or valve. Contact Victaulic for details. Total bolts required to be supplied by installer, may be ordered from Victaulic.

For restrictions on where and how Vic-Flange adapters and flange washers can be used, refer to Publication 06.06.

Couplings

Outlet Coupling

STYLE 72

For Complete Information
Request Publication **06.10**



- Serves dual purpose as a coupling and outlet
- Designed to seal on the joined pipe ends and in the neck of the outlet
- Outlet supplied with female threaded connections
- Pressure rated up to 500 psi/3450 kPa
- Sizes from 1½ × ½"/40 × 15 mm through 6 × 2"/150 × 50 mm

| Size | Max. Work Pressure * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | | | Approx. Wgt. Each | |
|--|----------------------|------------------------|------------------------|----------|----------|----------|-----------|-------------------|----------|
| Run × Reducing Outlet Nominal Size Inches/mm | | | | | | | | | |
| Female Pipe Thread | psi kPa | Inches mm | T † | V § | X | Y | Z | Lbs. kg | |
| 1½ × 40 | ½ 15 | 500 3450 | 0.75 – 0.88 19 – 22 | 2.06 52 | 2.63 67 | 2.94 75 | 4.50 114 | 2.75 70 | 1.4 0.6 |
| | ¾ 20 | 500 3450 | 0.75 – 0.88 19 – 22 | 2.06 52 | 2.63 67 | 2.94 75 | 4.50 114 | 2.75 70 | 1.4 0.6 |
| | 1 25 | 500 3450 | 0.75 – 0.88 19 – 22 | 1.94 49 | 2.63 67 | 2.94 75 | 4.50 114 | 2.75 70 | 1.4 0.6 |
| 2 × 50 | ½ 15 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.47 63 | 3.03 77 | 3.38 86 | 5.00 127 | 2.75 70 | 3.5 1.6 |
| | ¾ 20 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.47 63 | 3.03 77 | 3.38 86 | 5.00 127 | 2.75 70 | 2.5 1.1 |
| | 1 25 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.34 60 | 3.03 77 | 3.38 86 | 5.00 127 | 2.75 70 | 2.5 1.1 |
| 2½ × 65 | ½ 15 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.56 65 | 3.13 79 | 3.88 98 | 6.00 152 | 2.75 70 | 4.5 2.0 |
| | ¾ 20 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.56 65 | 3.13 79 | 3.88 98 | 6.00 152 | 2.75 70 | 4.6 2.1 |
| | 1 25 | 500 3450 | 0.81 – 0.88 20 – 22 | 2.44 62 | 3.13 79 | 3.88 98 | 6.00 152 | 2.75 70 | 4.6 2.1 |
| | 1¼ 32 | 500 3450 | 1.25 – 1.50 32 – 38 | 3.00 76 | 3.69 94 | 4.06 103 | 6.88 175 | 3.25 83 | 5.0 2.3 |
| | 1½ 40 | 500 3450 | 1.25 – 1.50 32 – 38 | — | 3.69 94 | 4.06 103 | 6.88 175 | 3.25 83 | 5.0 2.3 |
| 3 × 80 | ¾ 20 | 500 3450 | 0.50 – 0.63 13 – 16 | 2.75 70 | 3.31 84 | 4.50 114 | 7.00 178 | 2.38 60 | 3.4 1.5 |
| | 1 25 | 500 3450 | 1.25 – 1.50 32 – 38 | 4.06 103 | 4.75 121 | 4.75 121 | 8.00 203 | 3.25 83 | 7.0 3.2 |
| | 1¼ 32 | 500 3450 | 1.25 – 1.50 32 – 38 | 4.06 103 | 4.75 121 | 4.75 121 | 8.00 203 | 3.25 83 | 7.0 3.2 |
| | 1½ 40 | 500 3450 | 1.25 – 1.50 32 – 38 | — | 4.25 108 | 4.75 121 | 8.00 203 | 3.25 83 | 7.0 3.2 |
| 4 × 100 | ¾ 20 | 500 3450 | 0.44 – 0.63 11 – 16 | 3.25 83 | 3.81 97 | 5.69 145 | 8.38 213 | 2.50 64 | 6.8 3.1 |
| | 1 25 | 500 3450 | 0.44 – 0.63 11 – 16 | — | 3.81 97 | 5.69 145 | 8.38 213 | 2.50 64 | 6.8 3.1 |
| | 1½ 40 | 400 2750 | 1.63 – 1.81 41 – 46 | 3.91 99 | 4.59 117 | 6.13 156 | 9.00 229 | 3.69 94 | 11.4 5.2 |
| | 2 50 | 400 2750 | 1.63 – 1.81 41 – 46 | — | 4.59 117 | 6.13 156 | 9.00 229 | 3.69 94 | 11.4 5.2 |
| 6 × 150 | 1 25 | 400 2750 | 1.63 – 1.81 41 – 46 | 6.19 157 | 6.88 175 | 8.13 206 | 12.00 305 | 3.69 94 | 18.0 8.2 |
| | 1½ 40 | 400 2750 | 1.63 – 1.81 41 – 46 | 6.19 157 | 6.88 175 | 8.13 206 | 12.00 305 | 3.69 94 | 18.0 8.2 |
| | 2 50 | 400 2750 | 1.63 – 1.81 41 – 46 | — | 6.06 154 | 8.13 206 | 12.00 305 | 3.69 94 | 18.0 8.2 |

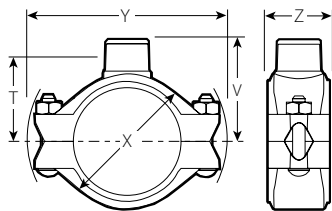
* Refer to General Notes on pg. 3-1.

§ Center of run to end of fittings.

† Center of run to the engaged pipe end. Female threaded outlet only (dimensions approximate).

IMPORTANT NOTES:

No. 60 Cap is not for use in vacuum services with Style 72 or 750 couplings. No. 61 bull plug should be used.



TYPICAL
1½ × ½" – 6 × 1½"/40 × 25 mm – 150 × 40 mm
SIZES WITH FEMALE THREADED OUTLET

Couplings

Rigid Coupling

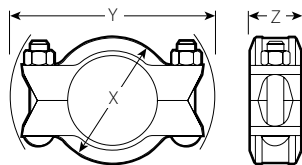
STYLE HP-70

For Complete Information
Request Publication **06.12**



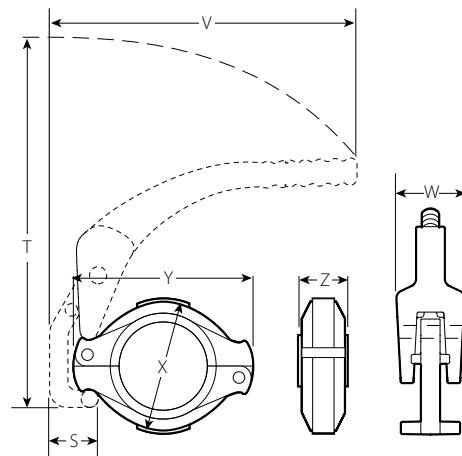
- Essentially rigid joint
- Pressure rated up to 750psi/5170kPa
- Sizes from 2 – 12"/50 – 300mm

| Size | | Max. Work Pressure * | Max. End Load * | Allow. Pipe End Sep. * | Dimensions – Inches/mm | | | Approx. Wgt. Each |
|------------------------|-------------------------------|----------------------|-----------------|------------------------|------------------------|-------|------|-------------------|
| Nominal Size Inches/mm | Actual Outside Dia. Inches/mm | psi kPa | Lbs. N | Inches/mm | X | Y | Z | Lbs. kg |
| 2 | 2.375 | 750 | 3321 | 0.14 | 3.50 | 6.68 | 2.00 | 3.2 |
| 50 | 60.3 | 5170 | 14778 | 3.6 | 89 | 168 | 51 | 1.5 |
| 2½ | 2.875 | 750 | 4866 | 0.14 | 4.13 | 7.13 | 2.00 | 4.0 |
| 65 | 73.0 | 5170 | 21655 | 3.6 | 105 | 181 | 51 | 1.8 |
| 3 | 3.500 | 750 | 7212 | 0.14 | 4.75 | 7.75 | 2.00 | 4.4 |
| 80 | 88.9 | 5170 | 32094 | 3.6 | 121 | 197 | 51 | 2.0 |
| 4 | 4.500 | 750 | 11922 | 0.25 | 6.00 | 9.63 | 2.13 | 7.5 |
| 100 | 114.3 | 5170 | 53054 | 6.4 | 152 | 245 | 54 | 3.4 |
| 6 | 6.625 | 750 | 25841 | 0.25 | 8.63 | 12.68 | 2.50 | 16.0 |
| 150 | 168.3 | 5170 | 114991 | 6.4 | 219 | 321 | 64 | 7.3 |
| 8 | 8.625 | 750 | 43797 | 0.25 | 11.00 | 15.00 | 2.75 | 26.1 |
| 200 | 219.1 | 5170 | 194899 | 6.4 | 279 | 381 | 70 | 11.8 |
| 10 | 10.750 | 700 | 63502 | 0.25 | 13.50 | 17.25 | 3.00 | 32.8 |
| 250 | 273.0 | 4825 | 282582 | 6.4 | 343 | 438 | 76 | 14.9 |
| 12 | 12.750 | 700 | 89328 | 0.25 | 15.63 | 19.13 | 3.13 | 46.0 |
| 300 | 323.9 | 4825 | 397510 | 6.4 | 397 | 486 | 80 | 20.9 |



TYPICAL FOR ALL SIZES

* Refer to General Notes on pg. 3-1.



TYPICAL FOR ALL SIZES

Vic-Boltless® Coupling

STYLE 791 COUPLING AND STYLE 792 ASSEMBLY TOOL

For Complete Information
Request Publication **06.11**



- Provides secure, tamper resistant, low profile joint
- Features locking pin installation with a separate tool
- Pressure rated up to 350psi/2410kPa
- Sizes from 2 – 8"/50 – 200mm

| Size | | Max. Work Pressure * | Max. End Load * | Allow. Pipe End Sep. * | Locking Pin Size | Dimensions – Inches/mm | | | | | | | Approx. Wgt. Each |
|------------------------|-------------------------------|----------------------|-----------------|------------------------|--------------------------|------------------------|-------|------|------|-------|-------|------|-------------------|
| Nominal Size Inches/mm | Actual Outside Dia. Inches/mm | psi kPa | Lbs. N | Inches/mm | Diameter x Length Inches | S | T | V | W | X | Y | Z | Lbs. kg |
| 2 | 2.375 | 350 | 1550 | 0 – 0.06 | 5/16 x 1 7/8 | 1.55 | 13.05 | 9.24 | 2.63 | 3.43 | 4.75 | 1.84 | 1.8 |
| 50 | 60.3 | 2410 | 6896 | 0 – 1.6 | 5/16 x 1 7/8 | 40 | 332 | 235 | 67 | 87 | 121 | 47 | 0.8 |
| 2½ | 2.875 | 350 | 2271 | 0 – 0.06 | 3/8 x 1 7/8 | 1.55 | 13.05 | 9.24 | 2.63 | 3.97 | 5.53 | 1.84 | 2.7 |
| 65 | 73.0 | 3410 | 10106 | 0 – 1.6 | 3/8 x 1 7/8 | 40 | 332 | 235 | 67 | 101 | 140 | 47 | 1.2 |
| 3 | 3.500 | 350 | 3366 | 0 – 0.06 | 3/8 x 1 7/8 | 1.55 | 13.05 | 9.24 | 2.63 | 4.59 | 6.20 | 1.84 | 2.6 |
| 80 | 88.9 | 2410 | 14977 | 0 – 1.6 | 3/8 x 1 7/8 | 40 | 332 | 235 | 67 | 117 | 157 | 47 | 1.2 |
| 4 | 4.500 | 350 | 5564 | 0 – 0.13 | 7/16 x 2 | 1.55 | 13.05 | 9.24 | 2.63 | 5.94 | 7.67 | 1.93 | 4.8 |
| 100 | 114.3 | 2410 | 24758 | 0 – 3.2 | 7/16 x 2 | 40 | 332 | 235 | 67 | 151 | 195 | 49 | 2.2 |
| 6 | 6.625 | 350 | 12059 | 0 – 0.13 | 1/2 x 2 1/16 | 1.55 | 13.05 | 9.24 | 2.63 | 8.06 | 10.17 | 2.06 | 6.3 |
| 150 | 168.3 | 2410 | 53662 | 0 – 3.2 | 1/2 x 2 1/16 | 40 | 332 | 235 | 67 | 205 | 258 | 51 | 2.9 |
| 8 | 8.625 | 350 | 20439 | 0 – 0.13 | 1/2 x 2 5/16 | 1.55 | 13.05 | 9.24 | 2.63 | 10.34 | 12.48 | 2.31 | 12.0 |
| 200 | 219.1 | 2410 | 90953 | 0 – 3.2 | 1/2 x 2 5/16 | 40 | 332 | 235 | 67 | 263 | 317 | 59 | 5.4 |

* Refer to General Notes on pg. 3-1.

IMPORTANT NOTES:

Complete coupling includes one-piece hinged housing, gasket and locking pin only. Assembly tool Style 792 is required for assembly (one tool fits all size couplings).

Fittings

FIRELOCK® FITTINGS

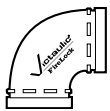
- CAD-developed, hydrodynamic design that has a shorter center-to-end dimension than standard fittings
- A noticeable bulge allows the water to make a smoother turn to maintain similar flow characteristics as standard full flow fittings
- Pressure ratings conform to the ratings of Victaulic FireLock Style 005 and Style 009H couplings

STANDARD FITTINGS

- Standard fittings conform to Style 77 coupling ratings



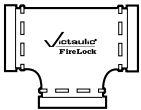
Fittings*



FireLock 90° Elbow
NO. 001, PG. 4-2



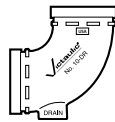
FireLock 45° Elbow
NO. 003, PG. 4-2



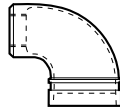
FireLock Straight Tee
NO. 002, PG. 4-2



FireLock Cap
NO. 006, PG. 4-2



Drain Elbow
NO. 10-DR, PG. 4-3



Vic®-End II End of Run Elbow
NO. 67, PG. 4-3

PRODUCTS

3-1 Couplings

4-1 Fittings

5-1 AquaFlex®
Sprinkler Fittings

6-1 Hole Cut Piping System

7-1 Valves and Accessories

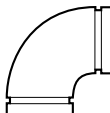
8-1 FireLock Automatic
Devices and Accessories

9-1 FireLock
Automatic Sprinklers

10-1 Specialty Products

11-1 Pipe Preparation Tools

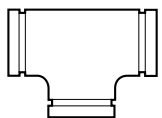
12-1 Product Index



90° Elbow
NO. 10, PG. 4-4



45° Elbow
NO. 11, PG. 4-4



Tee
NO. 20, PG. 4-4



Cap
NO. 60, PG. 4-4

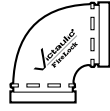
* See individual fitting submittals and publication 10.01 for approvals.

Fittings

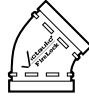
FireLock® Elbows, Tee and Cap

- NO. 001** 90° Elbow
- NO. 003** 45° Elbow
- NO. 002** Straight Tee
- NO. 006** Cap

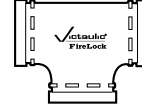
For Complete Information
Request Publication **10.03**



NO. 001*



NO. 003*



NO. 002*



NO. 006*

| Size | | No. 001 90° Elbow | | No. 003 45° Elbow | | No. 002 Straight Tee | | No. 006 Cap | |
|---------------------------------|--|------------------------|------------------------------------|------------------------|------------------------------------|-------------------------|------------------------------------|--------------------------------|------------------------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | C to E Inches mm | Approx. Wgt. Each Lbs. kg | C to E Inches mm | Approx. Wgt. Each Lbs. kg | C to E Inches mm | Approx. Wgt. Each Lbs. kg | T Thickness Inches mm | Approx. Wgt. Each Lbs. kg |
| 1¼ 32 | 1.660 42.4 | — | — | — | — | — | — | 0.8 21 | 0.3 0.1 |
| 1½ 40 | 1.900 48.3 | — | — | — | — | — | — | 0.82 21 | 0.4 0.2 |
| 2 50 | 2.375 60.3 | 2.75 70 | 1.7 0.8 | 2.00 51 | 1.8 0.8 | 2.75 70 | 2.4 1.1 | 0.88 22 | 0.6 0.3 |
| 2½ 65 | 2.875 73.0 | 3.00 76 | 3.1 1.4 | 2.25 57 | 2.2 1.0 | 3.00 76 | 3.6 1.6 | 0.88 22 | 1.0 0.5 |
| 76.1 mm | 3.000 76.1 | 3.00 76 | 3.30 1.5 | 2.25 57 | 2.4 1.1 | — | — | — | — |
| 3 80 | 3.500 88.9 | 3.38 86 | 4.0 1.8 | 2.50 64 | 3.1 1.4 | 3.38 86 | 5.3 2.4 | 0.88 22 | 1.2 0.5 |
| 4 100 | 4.500 114.3 | 4.00 102 | 6.7 3.0 | 3.00 76 | 5.6 2.5 | 4.00 102 | 8.7 3.9 | 1.00 25 | 2.4 1.1 |
| 108.0 mm | 4.250 108.0 | 4.00 102 | 5.7 2.6 | 3.00 76 | 5.1 2.3 | 4.00 102 | 7.5 3.4 | — | — |
| 5 125 | 5.563 141.3 | 4.88 124 | 12.6 5.7 | 3.25 83 | 8.3 3.8 | 4.88 124 | 15.7 7.1 | 1.00 25 | 4.1 1.9 |
| 6 150 | 6.625 168.3 | 5.50 140 | 18.3 8.3 | 3.50 89 | 11.7 5.3 | 5.50 140 | 22.7 10.3 | 1.00 25 | 5.9 2.7 |
| 159.0 mm | 6.250 158.8 | 5.50 140 | 12.6 5.7 | 3.50 89 | 9.2 4.2 | 5.50 140 | 17.9 8.0 | — | — |
| 8 200 | 8.625 219.1 | 6.81 173 | 25.5 11.6 | 4.25 108 | 20.4 9.3 | 6.94 176 | 38.7 17.6 | 1.13 29 | 12.7 5.8 |

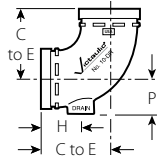
* See individual fitting submittals and publication 10.01 for approvals.

Fittings

Drain Elbow

NO. 10-DR

For Complete Information
Request Publication **10.05**



NO. 10-DR

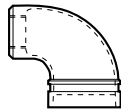


| Size | | Dimensions – Inches/mm | | | Approx. Weight Each |
|---------------------------|----------------------------------|------------------------|------------|------------|---------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | C to E | H | P | Lbs. kg |
| 2½ 65 | 2.875 73.0 | 3.75 95 | 2.75 70 | 1.68 43 | 5.2 2.4 |
| 3 80 | 3.500 88.9 | 4.25 108 | 2.75 70 | 2.10 53 | 5.3 2.4 |
| 4 100 | 4.500 114.3 | 5.00 127 | 2.75 70 | 2.60 66 | 8.8 4.0 |
| 6 150 | 6.625 168.3 | 6.50 165 | 2.75 70 | 3.65 93 | 18.7 8.5 |

Vic-End II End of Run Elbow

NO. 67

For Complete Information
Request Publication **10.21**



NO. 67



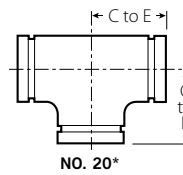
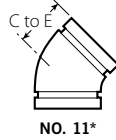
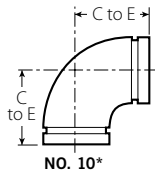
| Size | | Dimensions | Approx. Weight Each | Equivalent Length of Pipe |
|---------------------------|-----------|---------------------|---------------------|---------------------------|
| Nominal Size Inches mm | | C to E Inches mm | Lbs. kg | Feet m |
| 1¼ 32 | × ½ 15 | 2.38 61 | 1.4 0.6 | 2.8 0.9 |
| | | ¾ 20 | 2.38 61 | 1.4 0.6 |
| | 1 25 | 2.38 61 | 1.4 0.6 | 2.8 0.9 |
| 1½ 40 | × ½ 15 | 2.50 64 | 1.6 0.7 | 2.9 0.9 |
| | | ¾ 20 | 2.50 64 | 1.6 0.7 |
| | 1 25 | 2.50 64 | 1.6 0.7 | 2.9 0.9 |
| 2 50 | × ½ 15 | 2.75 70 | 1.7 0.8 | 4.0 1.2 |
| | | ¾ 20 | 2.75 70 | 1.7 0.8 |
| | 1 25 | 2.75 70 | 1.7 0.8 | 4.0 1.2 |
| 2½ 65 | × ½ 15 | 3.00 76 | 2.0 0.9 | 5.7 1.7 |
| | | ¾ 20 | 3.00 76 | 2.0 0.9 |
| | 1 25 | 3.0 76 | 2.0 0.9 | 5.7 1.7 |

Fittings

Elbows, Tee, and Cap

- NO. 10** 90° Elbow
- NO. 11** 45° Elbow
- NO. 20** Tee
- NO. 60** Cap

For Complete Information
Request Publication **07.01**



| Size | | No. 10 90° Elbow | | No. 11 45° Elbow | | No. 20 Tee | | No. 60 Cap | |
|---------------------------------|--|------------------------|------------------------------------|------------------------|------------------------------------|------------------------|--------------------------------------|--------------------------------|--------------------------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | C to E Inches mm | Approx. Wgt. Each Lbs. kg | C to E Inches mm | Approx. Wgt. Each Lbs. kg | C to E Inches mm | Approx. Weight Each Lbs. kg | T Thickness Inches mm | Approx. Weight Each Lbs. kg |
| 3/4 | 1.050 | 2.25 | 0.5 | 1.50 | 0.5 | 2.25 | 0.6 | 0.88 | 0.2 |
| 20 | 26.9 | 57 | 0.2 | 38 | 0.2 | 57 | 0.3 | 22 | 0.1 |
| 1 | 1.315 | 2.25 | 0.6 | 1.75 | 0.6 | 2.25 | 1.0 | 0.88 | 0.3 |
| 25 | 33.7 | 57 | 0.3 | 44 | 0.3 | 57 | 0.5 | 22 | 0.1 |
| 1 1/4 | 1.660 | 2.75 | 1.0 | 1.75 | 0.9 | 2.75 | 1.5 | 0.88 | 0.3 |
| 32 | 42.4 | 70 | 0.5 | 44 | 0.4 | 70 | 0.7 | 22 | 0.1 |
| 1 1/2 | 1.900 | 2.75 | 1.2 | 1.75 | 0.9 | 2.75 | 2.0 | 0.88 | 0.5 |
| 40 | 48.3 | 70 | 0.5 | 44 | 0.4 | 70 | 0.9 | 22 | 0.2 |
| 2 | 2.375 | 3.25 | 1.8 | 2.00 | 1.3 | 3.25 | 3.0 | 0.88 | 0.6 |
| 50 | 60.3 | 83 | 0.8 | 51 | 0.6 | 83 | 1.4 | 22 | 0.3 |
| 2 1/2 | 2.875 | 3.75 | 3.2 | 2.25 | 2.2 | 3.75 | 4.3 | 0.88 | 1.0 |
| 65 | 73.0 | 95 | 1.5 | 57 | 1.0 | 95 | 2.0 | 22 | 0.5 |
| 76.1 mm | 3.000 | 3.75 | 3.7 | 2.25 | 3.4 | 3.75 | 5.2 | 0.88 | 1.2 |
| | 76.1 | 95 | 1.7 | 57 | 1.5 | 95 | 2.4 | 22 | 0.5 |
| 3 | 3.500 | 4.25 | 4.5 | 2.50 | 3.1 | 4.25 | 6.8 | 0.88 | 1.2 |
| 80 | 88.9 | 108 | 2.0 | 64 | 1.4 | 108 | 3.0 | 22 | 0.5 |
| 3 1/2 | 4.000 | 4.50 | 5.6 | 2.75 | 4.3 | 4.50 (sw) | 7.9 | 0.88 | 2.5 |
| 90 | 101.6 | 114 | 2.5 | 70 | 2.0 | 114 | 3.6 | 22 | 1.1 |
| 4 | 4.500 | 5.00 | 7.1 | 3.00 | 5.6 | 5.00 | 15.5 | 1.00 | 2.5 |
| 100 | 114.3 | 127 | 3.2 | 76 | 2.5 | 127 | 7.0 | 25 | 1.1 |
| 108.0 mm | 4.250 | 5.00 | 11.0 | 3.00 | 5.6 | 5.00 | 11.9 | 1.00 | 2.3 |
| | 108.0 | 127 | 5.0 | 76 | 2.5 | 127 | 5.4 | 25 | 1.0 |
| 4 1/2 | 5.000 | 5.25 sw | 10.0 | 3.13 sw | 6.0 | 5.25 (sw) | 15.0 | 1.00 | 2.5 |
| 120 | 127.0 | 133 | 4.5 | 79 | 2.7 | 133 | 6.8 | 25 | 1.1 |
| 5 | 5.563 | 5.50 | 11.7 | 3.25 | 8.3 | 5.50 | 17.8 | 1.00 | 4.6 |
| 125 | 141.3 | 140 | 5.3 | 83 | 3.8 | 140 | 8.1 | 25 | 2.1 |
| 133.0 mm | 5.250 | 5.50 | 11.7 | 3.25 | 8.3 | 5.50 | 17.8 | 1.00 | 4.5 |
| | 133.0 | 140 | 5.3 | 83 | 3.8 | 140 | 8.1 | 25 | 2.0 |
| 139.7 mm | 5.500 | 5.50 | 11.7 | 3.25 | 8.3 | 5.50 | 17.8 | 1.00 | 4.5 |
| | 139.7 | 140 | 5.3 | 83 | 3.8 | 140 | 8.1 | 25 | 2.0 |
| 6 | 6.625 | 6.50 | 17.2 | 3.50 | 10.8 | 6.50 | 27.1 | 1.00 | 6.1 |
| 150 | 168.3 | 165 | 7.8 | 89 | 4.9 | 165 | 12.3 | 25 | 2.8 |
| 159.0 mm | 6.250 | 6.50 | 18.6 | 3.50 | 10.8 | 6.50 | 22.0 | 1.00 | 6.8 |
| | 159.0 | 165 | 8.4 | 89 | 4.9 | 165 | 10.0 | 25 | 3.1 |
| 165.1 mm | 6.500 | 6.50 | 15.5 | 3.50 | 9.8 | 6.50 | 25.7 | 1.00 | 7.3 |
| | 165.1 | 165 | 7.0 | 89 | 4.4 | 165 | 11.7 | 25 | 3.3 |
| 8 | 8.625 | 7.75 | 29.9 | 4.25 | 20.4 | 7.75 | 47.6 | 1.19 | 13.1 |
| 200 | 219.1 | 197 | 13.6 | 108 | 9.3 | 197 | 21.6 | 30 | 5.9 |
| 10 | 10.750 | 9.00 | 63.3 | 4.75 | 37.5 | 9.00 | 99.0 | 1.25 | 21.0 |
| 250 | 273.0 | 229 | 28.7 | 121 | 17.0 | 229 | 44.9 | 32 | 9.5 |
| 12 | 12.750 | 10.00 | 74.0 | 5.25 | 66.7 | 10.00 | 133.0 | 1.25 | 35.6 |
| 300 | 323.9 | 254 | 33.6 | 133 | 30.3 | 254 | 60.3 | 32 | 16.2 |

Additional fitting configurations available, contact Victaulic for details.

(sw) segmentally welded steel.

* See individual fitting submittals and publication 10.01 for approvals.

IMPORTANT NOTES:

No. 60 cap is not suitable for use in vacuum service with Style 009, Style 72 or 750 couplings.

No. 61 bull plugs should be used, request Publication 07.01 for more information.

AquaFlex® Stainless Steel Flexible Sprinkler Fittings



Braided Hose Assemblies



Series AQB
Braided Systems

PG. 5-2



Series AQB Braided
Systems for Hat Furring
Channel Dry Wall Ceilings

PG. 5-2



Series AQI
Institutional Systems

PG. 5-2



Series AQC Clean
Room Systems

PG. 5-3



Series AQD
Duct Systems

PG. 5-3



Unbraided Hose Assemblies



Series AQU Unbraided
Systems

PG. 5-4



PRODUCTS

- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex Sprinkler Fittings**
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories
- 8-1 FireLock® Automatic Devices and Accessories
- 9-1 FireLock Automatic Sprinklers
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools
- 12-1 Product Index

Pre-Assembled Systems*



Series AQB and AQI

* Pre-Assembled Sprinkler Options for Series AQB and Series AQU Systems

PG. 5-4



Accessories



PG. 5-4



AquaFlex® Stainless Steel Flexible Sprinkler Fittings

Braided Hose Assemblies

SERIES AQB – for Commercial and Suspended Ceilings

For Complete Information Request Publication **10.85**



| Length of Stainless Steel Flexible Hose | Outlet Size | Equivalent Length of 1 in./33.7mm Schedule 40 Pipe* | Equivalent Length of 1 in./33.7mm Schedule 40 Pipe with 90° Elbow |
|---|-------------|---|---|
| Inches/mm | Inches/mm | Feet/m | Feet/m |
| 31 790 | ½ | 9.6 | 26.6 |
| | 15 | 2.9 | 8.1 |
| 36@ 915 | ¾ | 8.2 | 19.9 |
| | 20 | 2.5 | 6.1 |
| | ½ | 11.0 | 29.8 |
| 48 1220 | 15 | 3.4 | 9.1 |
| | ¾ | 9.9 | 24.2 |
| | 20 | 3.0 | 7.4 |
| 60 1525 | ½ | 17.1 | 37.4 |
| | 15 | 5.2 | 11.4 |
| | ¾ | 16.5 | 29.9 |
| 72 1830 | 20 | 5.0 | 9.1 |
| | ½ | 21.4 | 41.4 |
| | 15 | 6.5 | 12.6 |
| | ¾ | 20.1 | 30.3 |
| | 20 | 6.1 | 9.2 |
| | ½ | 27.3 | 46.5 |
| | 15 | 8.3 | 14.1 |
| | ¾ | 26.2 | 38.6 |
| | 20 | 7.9 | 11.7 |

* Tested by FM at 7-inch/178-mm minimum bend radius with straight reducers.
 @ 36"/915mm hose only available in certain regions. Contact Victaulic for details.

SERIES AQB – for Hat Furring Channel Dry Wall Ceilings

For Complete Information Request Publication **10.85**



SERIES AQI – for Institutional Applications

For Complete Information Request Publication **10.88**



AquaFlex® Stainless Steel Flexible Sprinkler Fittings

Braided Hose Assemblies

SERIES AQC – for Clean Room Applications

For Complete Information Request Publication **10.86**



| Length of Stainless Steel Flexible Hose | Outlet Size | Equivalent Length of 1 in./33.7mm Schedule 40 Pipe* |
|---|-------------|---|
| Inches/mm | Inches/mm | Feet/m |
| 24 610 | ½ 15 | 5.5 1.7 |
| 48 1220 | ½ 15 | 7.8 2.4 |
| 72 1830 | ½ 15 | 11.1 3.4 |

Series AQC systems are FM approved for ceiling types of the following manufacturers:

- Fuji Electric Co., Ltd.
- M+W Zander Facility Engineering GmbH.
- Shanghai Huiya Aluminum Alloy Product Co., Ltd.
- Tenryo Technology and Engineering Co., Ltd.
- Tien Hann Engineering Co., Ltd.
- Topline Engineering Co., Ltd.
- Topwell Engineering Co., Ltd.
- United Information Systems Co., Ltd.
- Vero Veria Corporation.
- Yung Cheng Feng Engineering Co., Ltd.



Braided Hose Assemblies

SERIES AQD – for Industrial Duct Applications

For Complete Information Request Publication **10.87**



| Length of Stainless Steel Flexible Hose | Outlet Size | Equivalent Length of 1 in./33.7mm Schedule 40 Pipe |
|---|-------------|--|
| Inches/mm | Inches/mm | Feet/m |
| 24 610 | ½ 15 | 5.5 1.7 |
| 48 1220 | ½ 15 | 7.8 2.4 |
| 72 1830 | ½ 15 | 11.1 3.4 |

Series AQD systems are FM approved for use with round or square Fiberglass reinforced plastic ducts.



AquaFlex® Stainless Steel Flexible Sprinkler Fittings

Unbraided Hose Assemblies

SERIES AQU – for Commercial and Suspended Ceilings

For Complete Information Request Publication **10.85**



| Length of Stainless Steel Flexible Hose | Outlet Size | Equivalent Length of 1 in./33.7mm Schedule 40 Pipe* |
|---|-------------|---|
| Inches/mm | Inches/mm | Feet/m |
| 24@ 610 | ½ | 18 |
| | 15 | 5.5 |
| | ¾ 20 | 32 9.8 |
| 31 790 | ½ | 27 |
| | 15 | 8.2 |
| | ¾ 20 | 33 10.1 |
| 36@ 915 | ½ | 44 |
| | 15 | 13.4 |
| | ¾ 20 | 48 14.6 |
| 48 1220 | ½ | 53 |
| | 15 | 16.2 |
| | ¾ 20 | 55 16.8 |
| 60 1525 | ½ | 68 |
| | 15 | 20.7 |
| | ¾ 20 | 63 19.2 |
| 72 1830 | ½ | 73 |
| | 15 | 22.3 |
| | ¾ 20 | 76 23.2 |

* Tested by UL at 4-inch/102-mm minimum bend radius with straight reducers.

@ These length hoses only available in certain regions. Contact Victaulic for details.

Pre-Assembled Systems*

SERIES AQB AND AQI



- Series AQB braided and Series AQU unbraided systems may be ordered with the sprinkler already installed and factory leak-tested
- 24 – 72" system lengths available
- Ships with 1-BEE² 24" bracket
- Includes escutcheon and protective plastic cap for sprinkler
- Available with the following Victaulic FireLock® Pendent Sprinklers:
 - V2707 K5.6 Standard Response in Chrome or White
 - V2708 K5.6 Quick Response in Chrome or White
 - V3802 K5.6 Quick Response Concealed with Cover Plate in range of colors and finishes

* Pre-Assembled Sprinkler Options For Series AQB and Series AQU Systems

Accessories



Victaulic FireLock Style 922 Outlet T (Fast, mechanical hole-cut branch-line installation)

Request Publication 10.52



AquaFlex Reducer Nipples (Available in 5.5, 9.0 and 13.0" lengths)

Request Publication 10.88



AquaFlex 90° Elbows for Series AQB installations in tight spaces (Available in 4.0 and 6.0" lengths)

Request Publication 10.85

Hole Cut Piping System

- In 1969, Victaulic developed the first outlet coupling and first direct flanged-to-grooved adapter
- Gaskets are molded to conform to the outside diameter of the pipe and are of a pressure responsive design
- Victaulic hole cut products are mounted to the pipe using either a locating collar (Style 920 and 920N) or a toe and heel (Style 923), and provide a smooth flow area
- For complete information request publication **11.01**

Hole Cutting Tools



Cut fast, accurate mid-pipe holes up to 4½"/108 mm with Victaulic hole cutting tools, see pg. 11-6.

Mechanical-T® Bolted Branch Outlet

STYLE 920 AND STYLE 920N
GROOVED OUTLET, PGS. 6-2-6-4



Mechanical-T Bolted Branch Outlet

STYLE 920 AND STYLE 920N
FEMALE THREADED OUTLET,
PGS. 6-2-6-4



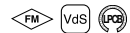
Mechanical-T Bolted Branch Outlet

STYLE 920 AND STYLE 920N
CROSS ASSEMBLIES, PGS. 6-5-6-8



FireLock® Low-Profile Sprinkler Tee - EMEA only

STYLE 912, PG. 6-9



FireLock Outlet-T

STYLE 922, PG. 6-10



Vic-Let™ Strapless Outlet

STYLE 923, PG. 6-11



PRODUCTS

- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex® Sprinkler Fittings
- 6-1 Hole Cut Piping System**
- 7-1 Valves and Accessories
- 8-1 FireLock Automatic Devices and Accessories
- 9-1 FireLock Automatic Sprinklers
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools
- 12-1 Product Index

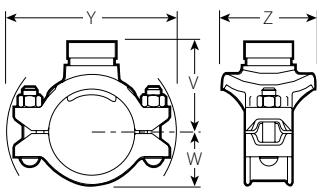
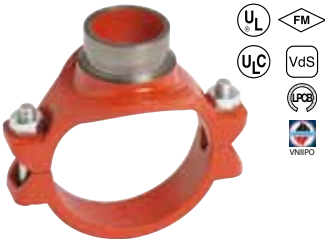
Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet

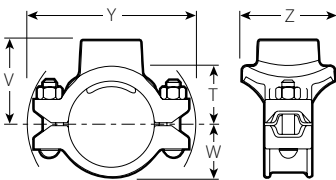
STYLE 920/920N

Grooved/Female Threaded Outlet

For Complete Information
Request Publication **11.02**



GROOVED OUTLET



FEMALE THREADED OUTLET

- Provide a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½"/50 × 15 mm through 8 × 4"/200 × 100 mm

| Size | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | Approx. Weight Each | | |
|----------|------------------|---------------------|-------------------------------------|-------------|---------|---------------------------|----------|---------------|-------------|---------------------|---------|---------|
| | | | Run × Branch Nominal Size Inches mm | 920 or 920N | psi kPa | Hole Diameter +0.13 -0.00 | T ** | V †# Threaded | V † Grooved | W | Y | Z |
| 2 50 × | ½ (a) † 15 | 920N | 500 3450 | 1.50 38.1 | 2.00 51 | 2.53 64 | — | 1.61 41 | 5.35 136 | 2.75 70 | 3.1 1.5 | — |
| | ¾ (a) † 20 | 920N | 500 3450 | 1.50 38.1 | 1.97 50 | 2.53 64 | — | 1.61 41 | 5.35 136 | 2.75 70 | 3.1 1.5 | — |
| | 1 (a) † 25 | 920N | 500 3450 | 1.50 38.1 | 1.85 47 | 2.53 64 | — | 1.61 41 | 5.35 136 | 2.75 70 | 3.0 1.4 | — |
| | 1 ¼ (a) † 32 | 920N | 500 3450 | 1.75 44.5 | 2.05 52 | 2.75 70 | 3.00 76 | 1.61 41 | 5.35 136 | 3.00 76 | 3.5 1.7 | 3.2 1.5 |
| | 1 ½ (a) † 40 | 920N | 500 3450 | 1.75 44.5 | 2.03 52 | 2.75 70 | 3.12 79 | 1.61 41 | 5.35 136 | 3.25 83 | 3.6 1.7 | 3.2 1.5 |
| 2 ½ 65 × | ½ (a) † 15 | 920N | 500 3450 | 1.50 38.1 | 2.21 56 | 2.74 70 | — | 91.82 46 | 5.64 143 | 2.75 70 | 3.0 1.4 | — |
| | ¾ (a) † 20 | 920N | 500 3450 | 1.50 38.1 | 2.18 55 | 2.74 70 | — | 1.82 46 | 5.64 143 | 2.75 70 | 3.0 1.4 | — |
| | 1 (a) † 25 | 920N | 500 3450 | 1.50 38.1 | 2.06 52 | 2.74 70 | — | 1.82 46 | 5.64 143 | 2.75 70 | 2.9 1.4 | — |
| | 1 ¼ (a) † 32 | 920N | 500 3450 | 1.75 44.5 | 2.30 58 | 3.00 76 | 3.25 83 | 1.82 46 | 6.29 160 | 3.00 76 | 3.5 1.7 | 3.2 1.5 |
| | 1 ½ (a) † 40 | 920N | 500 3450 | 2.00 50.8 | 2.28 58 | 3.00 76 | 3.25 83 | 1.82 46 | 6.26 159 | 3.25 83 | 3.6 1.7 | 3.3 1.6 |
| 76.1 × | ½ (a) † 15 | 920N | 300 2065 | 1.50 38.1 | 2.22 56 | 2.75 70 | — | 2.25 57 | 6.46 164 | 3.18 81 | 3.9 1.8 | — |
| | ¾ (a) † 20 | 920N | 300 2065 | 1.50 38.1 | 2.19 56 | 2.75 70 | — | 2.25 57 | 6.46 164 | 3.18 81 | 3.9 1.8 | — |
| | 1 (a) † 25 | 920N | 300 2065 | 1.50 38.1 | 2.07 53 | 2.75 70 | — | 2.25 57 | 6.46 164 | 3.18 81 | 3.8 1.7 | — |
| | 1 ¼ (a) † 32 | 920N | 500 3450 | 1.75 44.5 | 2.30 58 | 3.00 76 | 3.31 84 | 1.92 49 | 6.29 160 | 3.00 76 | 3.5 1.6 | 3.2 1.5 |
| | 1 ½ (a) † 40 | 920N | 500 3450 | 2.00 50.8 | 2.28 58 | 3.00 76 | 3.31 84 | 1.92 49 | 6.29 160 | 3.25 83 | 3.5 1.6 | 3.3 1.5 |
| 3 80 × | ½ (a) † 15 | 920N | 500 3450 | 1.50 38.1 | 2.52 64 | 3.05 78 | — | 2.28 58 | 6.15 156 | 2.75 70 | 3.4 1.6 | — |
| | ¾ (a) † 20 | 920N | 500 3450 | 1.50 38.1 | 2.49 63 | 3.05 78 | — | 2.28 58 | 6.15 156 | 2.75 70 | 3.4 1.6 | — |
| | 1 (a) † 25 | 920N | 500 3450 | 1.50 38.1 | 2.38 61 | 3.06 78 | — | 2.28 58 | 6.15 156 | 2.75 70 | 3.3 1.6 | — |
| | 1 ¼ (a) † 32 (b) | 920N | 500 3450 | 1.75 44.5 | 2.55 65 | 3.25 83 | 3.56 90 | 2.28 58 | 6.15 156 | 3.00 76 | 3.8 1.8 | 3.7 1.8 |
| | 1 ½ (a) † 40 (b) | 920N | 500 3450 | 2.00 50.8 | 2.78 71 | 3.50 89 | 3.56 90 | 2.28 58 | 6.15 156 | 3.25 83 | 4.1 1.9 | 3.8 1.8 |
| 3 ½ 90 × | 2 50 | 920N | 500 3450 | 2.50 63.5 | 2.75 70 | 3.50 89 | 3.56 90 | 2.28 58 | 6.75 172 | 3.88 99 | 4.9 2.3 | 4.6 2.1 |
| | 2 ½ 65 | 920 | 500 3450 | 2.50 63.5 | 2.75 70 | 3.50 89 | 3.56 90 | 2.28 58 | 6.75 172 | 3.88 99 | 4.9 2.3 | 4.6 2.1 |
| | 2 ¾ 75 | 920 | 500 3450 | 2.50 63.5 | 2.75 70 | 3.50 89 | 3.56 90 | 2.28 58 | 6.75 172 | 3.88 99 | 4.9 2.3 | 4.6 2.1 |
| | 3 80 | 920 | 500 3450 | 2.50 63.5 | 2.75 70 | 3.50 89 | 3.56 90 | 2.28 58 | 6.75 172 | 3.88 99 | 4.9 2.3 | 4.6 2.1 |
| | 3 ½ 90 | 920 | 500 3450 | 2.50 63.5 | 2.75 70 | 3.50 89 | 3.56 90 | 2.28 58 | 6.75 172 | 3.88 99 | 4.9 2.3 | 4.6 2.1 |
| 4 100 × | ½ (a) † 15 | 920N | 500 3450 | 1.50 38.1 | 3.03 77 | 3.56 90 | — | 2.69 68 | 7.01 178 | 2.75 70 | 3.7 1.8 | — |
| | ¾ (a) † 20 | 920N | 500 3450 | 1.50 38.1 | 3.00 76 | 3.56 90 | — | 2.69 68 | 7.01 178 | 2.75 70 | 3.7 1.8 | — |
| | 1 (a) † 25 | 920N | 500 3450 | 1.50 38.1 | 2.88 73 | 3.56 90 | — | 2.69 68 | 7.01 178 | 2.75 70 | 3.6 1.8 | — |
| | 1 ¼ (a) † 32 (b) | 920N | 500 3450 | 1.75 44.5 | 3.08 78 | 3.78 96 | 4.00 102 | 2.69 68 | 7.01 178 | 3.00 76 | 4.0 1.9 | 3.6 1.8 |
| | 1 ½ (a) † 40 (b) | 920N | 500 3450 | 2.00 50.8 | 3.28 83 | 4.00 102 | 4.00 102 | 2.69 68 | 7.01 178 | 3.25 83 | 4.2 2.0 | 3.9 1.9 |
| 76.1 mm | 2 (a) † 50 | 920N | 500 3450 | 2.50 63.5 | 3.25 83 | 4.00 102 | 4.00 102 | 2.69 68 | 7.01 178 | 3.88 99 | 5.0 2.3 | 4.6 2.1 |
| | 2 ½ (a) † 65 | 920 | 500 3450 | 2.75 69.9 | 2.88 73 | 4.00 102 | 4.00 102 | 2.69 68 | 7.34 186 | 4.63 118 | 5.8 2.6 | 5.0 2.3 |
| | 2 ¾ (a) † 75 | 920 | 500 3450 | 2.75 69.9 | 2.88 73 | 4.00 102 | 4.00 102 | 2.69 68 | 7.34 186 | 4.63 118 | 5.8 2.6 | 5.0 2.3 |
| | 3 (a) † 80 | 920 | 500 3450 | 2.75 69.9 | 2.88 73 | 4.00 102 | 4.00 102 | 2.69 68 | 7.34 186 | 4.63 118 | 5.8 2.6 | 5.0 2.3 |
| | 3 ½ (a) † 90 | 920 | 500 3450 | 2.75 69.9 | 2.88 73 | 4.00 102 | 4.00 102 | 2.69 68 | 7.34 186 | 4.63 118 | 5.8 2.6 | 5.0 2.3 |

TABLE CONTINUED ON PG. 6-3, SEE FOOTNOTES ON PG. 6-4

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.



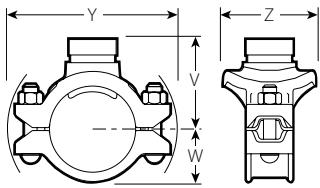
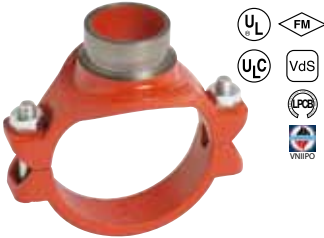
Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet (cont'd)

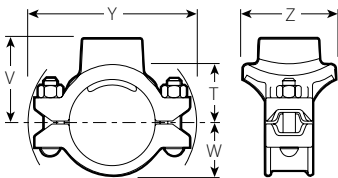
STYLE 920/920N

Grooved/Female Threaded Outlet

For Complete Information
Request Publication **11.02**



GROOVED OUTLET



FEMALE THREADED OUTLET

- Provide a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½"/50 × 15 mm through 8 × 4"/200 × 100 mm

| Size | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | Approx. Weight Each | | |
|-------------------------------------|-----------------------|---------------------|-------------------------------------|---------------|---------------|---------------------------|-------------|---------------|--------------|---------------------|-------------|-------------|
| | | | Run × Branch Nominal Size Inches mm | 920 or 920N | psi kPa | Hole Diameter +0.13 -0.00 | T ** | V †# Threaded | V † Grooved | W | Y | Z |
| TABLE CONTINUED FROM PG. 6-2 | | | | | | | | | | | | |
| 108.0 × | 1 ¼ (a) □ 32 | 920N | 500 3450 | 1.75 44.5 | 3.08 78 | 3.78 96 | — | 2.63 67 | 7.64 194 | 3.05 78 | 5.0 2.3 | — |
| | 1 ½ (a) □ 40 | 920N | 500 3450 | 2.00 50.8 | 3.28 83 | 4.00 102 | — | 2.63 67 | 7.64 194 | 3.25 83 | 5.0 2.3 | — |
| | 2 (a) 50 | 920N | 500 3450 | 2.50 63.5 | 3.25 83 | 4.00 102 | — | 2.63 67 | 7.64 194 | 4.00 102 | 4.0 1.9 | — |
| | 76.1 mm | 920 | 500 3450 | 2.75 69.9 | 2.88 73 | 4.00 102 | 4.00 102 | 2.63 67 | 7.64 194 | 4.29 109 | 8.0 3.6 | 7.8 3.5 |
| | 3 (a) 80 | 920 | 500 3450 | 3.50 88.9 | 3.31 84 | 4.50 114 | 4.50 114 | 2.63 67 | 7.63 194 | 4.88 124 | 6.8 3.1 | 6.5 3.0 |
| 5 125 × | 1 ½ (a) † 40 | 920 | 500 3450 | 2.00 50.8 | 4.03 102 | 4.75 121 | 4.75 121 | 3.16 80 | 9.70 246 | 3.69 94 | 7.4 3.4 | 7.6 3.4 |
| | 2 (a) † 50 | 920 | 500 3450 | 2.50 63.5 | 4.00 102 | 4.75 121 | 4.75 121 | 3.16 80 | 9.70 246 | 4.38 111 | 8.2 3.7 | 8.0 3.6 |
| | 2 ½ (a) † 65 | 920 | 500 3450 | 2.75 69.9 | 3.63 92 | 4.75 121 | 4.75 121 | 3.16 80 | 9.70 246 | 4.63 118 | 8.3 3.8 | 7.9 3.6 |
| | 76.1 mm □ | 920 | 500 3450 | 2.75 69.9 | 3.75 95 | — | 4.75 121 | 3.16 80 | 9.70 246 | 4.63 118 | — | 8.0 3.6 |
| | 3 (a) † 80 | 920 | 500 3450 | 3.50 88.9 | 3.81 97 | 5.00 127 | 4.63 118 | 3.16 80 | 9.70 246 | 5.31 135 | 8.4 3.8 | 8.8 4.0 |
| 133.0 × | 2 50 | 920N | 500 3450 | 2.50 63.5 | 3.75 95 | 4.50 114 | — | 3.17 81 | 8.00 203 | 3.88 99 | 8.0 3.6 | — |
| | 3 80 | 920 | 500 3450 | 3.50 88.9 | 3.81 97 | 5.00 127 | — | 3.00 76 | 9.46 240 | 5.31 135 | 8.0 3.6 | — |
| 139.7 × | 1 ½ † 40 | 920N | 500 3450 | 2.00 50.8 | 3.78 96 | 4.50 114 | — | 3.30 84 | 8.23 209 | 3.25 83 | 7.0 3.2 | — |
| | 2 † 50 | 920N | 500 3450 | 2.50 63.5 | 3.75 95 | 4.50 114 | — | 3.30 84 | 8.23 209 | 3.88 99 | 9.0 4.1 | — |
| 6 150 × | 1 ¼ (a) 32 (b) | 920N | 500 3450 | 1.75 44.5 | 4.43 112 | 5.13 130 | 5.13 130 | 3.79 96 | 9.15 232 | 3.25 83 | 5.1 2.3 | 4.8 2.2 |
| | 1 ½ (a) † □ 40 (b) | 920N | 500 3450 | 2.00 50.8 | 4.40 112 | 5.13 130 | 5.13 130 | 3.79 96 | 9.15 232 | 3.25 83 | 5.4 2.4 | 5.1 2.3 |
| | 2 (a) † □ 50 | 920N | 500 3450 | 2.50 63.5 | 4.38 111 | 5.13 130 | 5.13 130 | 3.79 96 | 9.15 232 | 3.88 99 | 6.0 2.7 | 5.6 2.5 |
| | 76.1 mm □ | 920 | 500 3450 | 2.75 69.9 | 4.15 105 | — | 5.21 132 | 3.69 94 | 10.51 267 | 4.63 118 | — | 8.4 3.8 |
| | 3 (a) † 80 | 920 | 500 3450 | 3.50 88.9 | 4.31 110 | 5.50 140 | 5.13 130 | 3.69 94 | 10.51 267 | 5.31 135 | 9.9 4.5 | 8.4 3.8 |
| | 4 (a) † □ 100 | 920 | 500 3450 | 4.50 114.3 | 3.81 97 | 5.75 146 | 5.38 137 | 3.69 94 | 10.51 267 | 6.25 159 | 10.1 4.6 | 10.1 4.6 |
| | 76.1 mm □ | 920 | 500 3450 | 2.75 69.9 | 4.38 111 | 5.50 140 | 5.13 130 | 3.69 94 | 10.51 267 | 6.25 159 | 10.1 4.6 | 10.1 4.6 |
| 159.0 × | 1 ½ (a) 40 | 920N | 500 3450 | 2.00 50.8 | 4.41 112 | 5.13 130 | — | 3.63 92 | 9.40 239 | 3.25 83 | 7.8 3.5 | — |
| | 2 (a) 50 | 920N | 500 3450 | 2.50 63.5 | 4.38 111 | 5.13 130 | — | 3.63 92 | 9.40 239 | 3.88 99 | 8.0 3.6 | — |
| | 76.1 mm | 920 | 500 3450 | 2.75 69.9 | 4.38 111 | 5.50 140 | 5.13 130 | 3.63 92 | 9.40 239 | 4.63 118 | 9.5 4.3 | 9.5 4.3 |
| | 3 80 | 920 | 500 3450 | 3.50 88.9 | 4.31 110 | 5.50 140 | 5.13 130 | 3.63 92 | 9.40 239 | 5.31 135 | 8.1 3.7 | 14.0 6.4 |
| | 108.0 mm | 920 | 500 3450 | 4.50 114.3 | 4.45 113 | — | 5.38 137 | 3.63 92 | 9.40 239 | 6.12 155 | — | 10.0 4.5 |
| 165.1 × | 4 100 | 920 | 500 3450 | 4.50 114.3 | 3.81 96.80 | 5.75 146 | — | 3.63 92 | 9.40 239 | 6.25 159 | 18.0 8.2 | — |
| | 1 25 | 920N | 500 3450 | 1.50 38.1 | 3.88 99 | 4.56 116 | — | 3.79 96 | 9.34 237 | 2.75 70 | 8.0 3.6 | — |
| | 1 ¼ □ 32 | 920N | 500 3450 | 1.75 44.5 | 4.43 113 | 5.13 130 | — | 3.79 96 | 9.34 237 | 3.25 83 | 8.4 3.8 | — |
| | 1 ½ (a) † 40 | 920N | 500 3450 | 2.00 50.8 | 4.41 112 | 5.13 130 | 5.13 130 | 3.79 96 | 9.34 237 | 3.25 83 | 8.4 3.8 | 5.4 2.4 |

TABLE CONTINUED ON PG. 6-4, SEE FOOTNOTES ON PG. 6-4

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

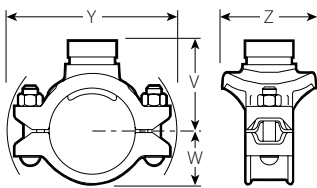
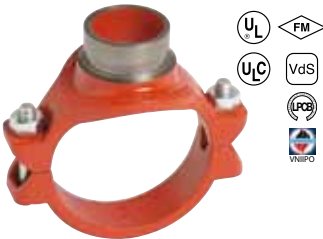
Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet (cont'd)

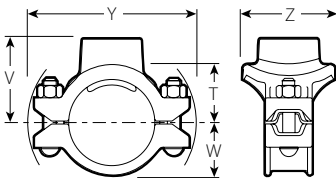
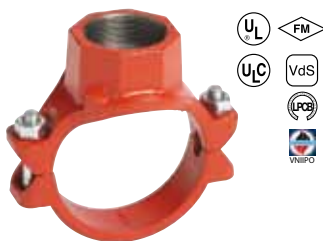
STYLE 920/920N

Grooved/Female Threaded Outlet

For Complete Information
Request Publication **11.02**



GROOVED OUTLET



FEMALE THREADED OUTLET

- Provide a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½"/50 × 15 mm through 8 × 4"/200 × 100 mm

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

| Size | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | Approx. Weight Each | | |
|-------------------------------------|-----------------------------|---------------------|-------------------------------------|---------------|-------------|---------------------------|-------------|---------------|--------------|---------------------|-------------|-------------|
| | | | Run × Branch Nominal Size Inches mm | 920 or 920N | psi kPa | Hole Diameter +0.13 -0.00 | T ** | V †# Threaded | V † Grooved | W | Y | Z |
| TABLE CONTINUED FROM PG. 6-3 | | | | | | | | | | | | |
| 165.1 × | 2 (a) † 50 | 920N | 500 3450 | 2.50 63.5 | 4.38 111 | 5.13 130 | 5.13 130 | 3.79 96 | 9.34 237 | 3.88 99 | 8.5 3.9 | 6.0 2.7 |
| | 76.1 mm | 920 | 500 3450 | 2.75 69.9 | 4.01 110 | 5.13 130 | 5.21 132 | 3.63 92 | 10.51 267 | 4.63 118 | 8.6 3.9 | 7.6 3.4 |
| | 3 (a) †* 80 | 920 | 500 3450 | 3.50 88.9 | 4.31 110 | 5.50 140 | 5.13 130 | 3.63 92 | 10.51 267 | 5.31 135 | 10.2 4.6 | 8.4 3.8 |
| 8 200 × | 4 (a) † [‡] 100 | 920 | 500 3450 | 4.50 114.3 | 3.81 97 | 5.75 146 | 5.38 137 | 3.63 92 | 10.51 267 | 6.25 159 | 10.5 4.8 | 8.4 3.8 |
| | 2 (a) † 50 | 920 | 500 3450 | 2.75 69.9 | 5.44 138 | 6.19 157 | 6.25 159 | 4.81 122 | 12.42 316 | 4.50 114 | 11.6 5.3 | 11.6 5.3 |
| | 2 ½ (a) † 65 | 920 | 500 3450 | 2.75 69.9 | 5.07 129 | 6.19 157 | 6.19 157 | 4.81 122 | 12.42 316 | 4.50 114 | 11.6 5.3 | 11.6 5.3 |
| | 76.1 mm [‡] | 920 | 500 3450 | 2.75 69.9 | 5.25 133 | — | 6.25 159 | 4.81 122 | 12.42 316 | 4.56 116 | — | 11.6 5.3 |
| | 3 (a) † [‡] 80 | 920 | 500 3450 | 3.50 88.9 | 5.31 135 | 6.50 165 | 6.50 165 | 4.81 122 | 12.42 316 | 5.31 135 | 12.6 5.7 | 11.6 5.3 |
| | 4 (a) † [‡] 100 | 920 | 500 3450 | 4.50 114.3 | 4.81 122 | 6.75 171 | 6.38 162 | 4.81 122 | 12.42 316 | 6.25 159 | 15.3 6.9 | 12.5 5.7 |

** Center of run to engaged pipe end, female threaded outlet only (dimensions approximate).

† Available with grooved or female threaded outlet. Specify choice on order.

‡ Center of run to end of fitting.

Female threaded outlets are available to NPT and BSPT specifications.

@ These pressure ratings are general guidelines. Please consult Publication 10.01 for specific pressure ratings by type of pipe and regulatory agency.

(a) British Standard female pipe threaded outlet is available as listed. Specify "BSPT" clearly on order.

(b) For 76.1 mm threaded outlet, specify 2½" BSPT clearly on order.

§ VdS approved for fire protection services. Consult publication 10.01 for additional information.

‡ LPCB approved for fire protection services. Consult publication 10.01 for additional information.

* Approved for use in China by Tianjin Approvals Company.

Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet

STYLE 920/920N CROSS ASSEMBLIES

Grooved/Female Threaded Outlet

For Complete Information Request Publication **11.03**



- Available grooved and threaded
- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 x 1/2 x 1/2" / 50 x 15 x 15 mm through 8 x 4 x 4" / 200 x 100 x 100 mm

| Size | | | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | | | | |
|------------------------|---------|-------------|-------------|---------------------|------------------------|-------------|-----------------------------------|------------|--------------------|------------|-----------------------------------|------------|--------------------|------------|------------|
| Nominal Size Inches mm | | | | | Branch A | | | | Branch B | | | | | | |
| Run | x | Branch A | | | x | Branch B | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | |
| | | | Grooved | Threaded | | | Required | Maximum | Grooved | Threaded | Required | Maximum | | | |
| 2 50 | x | 1/2 15 | x | 1/2 15 | 920N | 400 2750 | — | 2.00 51 | 1.50 38 | 1.63 41 | — | 2.00 51 | 1.50 38 | 1.63 41 | |
| | | | | 3/4 20 | 920N | 400 2750 | — | 2.00 51 | 1.50 38 | 1.63 41 | — | 1.97 50 | 1.50 38 | 1.63 41 | |
| | | 1 25 | x | 1 25 | 920N | 400 2750 | — | 2.00 51 | 1.50 38 | 1.63 41 | — | 1.81 46 | 1.50 38 | 1.63 41 | |
| | | | | 1 1/4 32 | 920N | 400 2750 | — | 2.00 51 | 1.50 38 | 1.63 41 | 3.00 76 | 2.04 52 | 1.75 44 | 1.88 48 | |
| | | 1 1/2 40 | x | 1 1/2 40 | 920N | 400 2750 | — | 2.00 51 | 1.50 38 | 1.63 41 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | |
| | | | | 3/4 20 | 920N | 400 2750 | — | 1.97 50 | 1.50 38 | 1.63 41 | — | 1.97 50 | 1.50 38 | 1.63 41 | |
| | 1 25 | x | 1 25 | 1 25 | 920N | 400 2750 | — | 1.81 46 | 1.50 38 | 1.63 41 | — | 1.81 46 | 1.50 38 | 1.63 41 | |
| | | | | 1 1/4 32 | 920N | 400 2750 | — | 1.81 46 | 1.50 38 | 1.63 41 | 3.00 76 | 2.04 52 | 1.75 44 | 1.88 48 | |
| | | | | 1 1/2 40 | 920N | 400 2750 | — | 1.81 46 | 1.50 38 | 1.63 41 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | |
| | | 1 1/4 32 | x | 1 1/4 32 | 920N | 400 2750 | 3.00 76 | 2.04 52 | 1.75 44 | 1.88 48 | 3.00 76 | 2.04 52 | 1.75 44 | 1.88 48 | |
| | | | | 1 1/2 40 | 920N | 400 2750 | 3.00 76 | 2.03 52 | 1.75 44 | 1.88 48 | 3.00 76 | 2.03 52 | 1.75 44 | 1.88 48 | |
| | | 1 1/2 40 | x | 1 1/2 40 | 920N | 400 2750 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | |
| 1 1/2 40 | 920N | | | 400 2750 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | 3.12 79 | 2.03 52 | 1.75 44 | 1.88 48 | | | |
| 2 1/2 65 | x | 1/2 15 | x | 1/2 15 | 920N | 400 2750 | — | 2.21 56 | 1.50 38 | 1.63 41 | — | 2.21 56 | 1.50 38 | 1.63 41 | |
| | | | | 3/4 20 | 920N | 400 2750 | — | 2.21 56 | 1.50 38 | 1.63 41 | — | 2.18 55 | 1.50 38 | 1.63 41 | |
| | | | | 1 25 | 920N | 400 2750 | — | 2.21 56 | 1.50 38 | 1.63 41 | — | 2.06 52 | 1.50 38 | 1.63 41 | |
| | | | | 1 1/4 32 | 920N | 400 2750 | — | 2.21 56 | 1.50 38 | 1.63 41 | 3.00 76 | 2.29 58 | 1.75 44 | 1.88 48 | |
| | | | | 1 1/2 40 | 920N | 400 2750 | — | 2.21 56 | 1.50 38 | 1.63 41 | 3.12 79 | 2.27 58 | 2.00 51 | 2.13 54 | |
| | | | | 3/4 20 | 920N | 400 2750 | — | 2.18 55 | 1.50 38 | 1.63 41 | — | 2.18 55 | 1.50 38 | 1.63 41 | |
| | | 1 25 | x | 1 25 | 1 25 | 920N | 400 2750 | — | 2.18 55 | 1.50 38 | 1.63 41 | — | 2.06 52 | 1.50 38 | 1.63 41 |
| | | | | | 1 1/4 32 | 920N | 400 2750 | — | 2.18 55 | 1.50 38 | 1.63 41 | 3.25 83 | 2.29 58 | 1.75 44 | 1.88 48 |
| | | | | | 1 1/2 40 | 920N | 400 2750 | — | 2.18 55 | 1.50 38 | 1.63 41 | 3.25 83 | 2.27 58 | 2.00 51 | 2.13 54 |
| | | | 1 1/4 32 | x | 1 1/4 32 | 920N | 400 2750 | 3.25 83 | 2.29 58 | 1.75 44 | 1.88 48 | 3.25 83 | 2.29 58 | 1.75 44 | 1.88 48 |
| | | | | | 1 1/2 40 | 920N | 400 2750 | 3.25 83 | 2.27 58 | 2.00 51 | 2.13 54 | 3.25 83 | 2.29 58 | 1.75 44 | 1.88 48 |
| | | | | | 1 1/2 40 | 920N | 400 2750 | 3.25 83 | 2.27 58 | 2.00 51 | 2.13 54 | 3.25 83 | 2.27 58 | 2.00 51 | 2.13 54 |

TABLE CONTINUED ON PG. 6-6, SEE FOOTNOTES ON PG. 6-8

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet

STYLE 920/920N CROSS ASSEMBLIES

Grooved/Female Threaded Outlet

For Complete Information Request Publication **11.03**



- Available grooved and threaded
- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½ × ½"/ 50 × 15 × 15 mm through 8 × 4 × 4"/200 × 100 × 100 mm

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

| Size | | | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | | |
|-------------------------------------|------------|------------|-------------|---------------------|-----------------------------------|------------|--------------------|------------|-----------------------------------|------------|--------------------|------------|--|
| Nominal Size Inches mm | | | 920 or 920N | psi kPa | Branch A | | | | Branch B | | | | |
| Run | × Branch A | × Branch B | | | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | |
| | | | | | Grooved | Threaded | Required | Maximum | Grooved | Threaded | Required | Maximum | |
| TABLE CONTINUED FROM PG. 6-5 | | | | | | | | | | | | | |
| 3 80 | × ½ 15 | × ½ 15 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | — | 2.53 64 | 1.50 38 | 1.63 41 | |
| | | × ¾ 20 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | — | 2.50 64 | 1.50 38 | 1.63 41 | |
| | | × 1 25 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | — | 2.37 60 | 1.50 38 | 1.63 41 | |
| | | × 1¼ 32 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | — | 2.53 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | ¾ 20 | × ¾ 20 | 920N | 400 2750 | — | 2.50 64 | 1.50 38 | 1.63 41 | — | 2.50 64 | 1.50 38 | 1.63 41 | |
| | | × 1 25 | 920N | 400 2750 | — | 2.50 64 | 1.50 38 | 1.63 41 | — | 2.37 60 | 1.50 38 | 1.63 41 | |
| | | × 1¼ 32 | 920N | 400 2750 | — | 2.50 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | — | 2.50 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | — | 2.50 64 | 1.50 38 | 1.63 41 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | | × 1 25 | 920N | 400 2750 | — | 2.37 60 | 1.50 38 | 1.63 41 | — | 2.37 60 | 1.50 38 | 1.63 41 | |
| | | × 1¼ 32 | 920N | 400 2750 | — | 2.37 60 | 1.50 38 | 1.63 41 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | — | 2.37 60 | 1.50 38 | 1.63 41 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | — | 2.37 60 | 1.50 38 | 1.63 41 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | | × 1¼ 32 | 920N | 400 2750 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | |
| | | × 2 50 | 920N | 400 2750 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | | × 1½ 40 | 920N | 400 2750 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | 3.56 90 | 2.54 65 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | 3.56 90 | 2.77 70 | 2.00 51 | 2.13 54 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | | × 2 50 | 920N | 400 2750 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | 3.56 90 | 2.74 70 | 2.50 64 | 2.63 67 | |
| | | × 3½ 90 | 920N | 400 2750 | 3.75 95 | — | 2.50 64 | 2.63 67 | 3.75 95 | — | 2.50 64 | 2.63 67 | |
| 4 100 | × ½ 15 | × ½ 15 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | — | 3.03 77 | 1.50 38 | 1.63 41 | |
| | | × ¾ 20 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | — | 3.00 76 | 1.50 38 | 1.63 41 | |
| | | × 1 25 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | — | 2.88 73 | 1.50 38 | 1.63 41 | |
| | | × 1¼ 32 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | — | 3.03 77 | 1.50 38 | 1.63 41 | 4.00 102 | 3.24 82 | 2.50 64 | 2.88 67 | |
| | ¾ 20 | × ¾ 20 | 920 | 400 2750 | — | 3.00 76 | 1.50 38 | 1.63 41 | — | 3.00 76 | 1.50 38 | 1.63 41 | |
| | | × 1 25 | 920 | 400 2750 | — | 3.00 76 | 1.50 38 | 1.63 41 | — | 2.88 73 | 1.50 38 | 1.63 41 | |
| | | × 1¼ 32 | 920N | 400 2750 | — | 3.00 76 | 1.50 38 | 1.63 41 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 | |
| | | × 1½ 40 | 920N | 400 2750 | — | 3.00 76 | 1.50 38 | 1.63 41 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 | |
| | | × 2 50 | 920N | 400 2750 | — | 3.00 76 | 1.50 38 | 1.63 41 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 | |

TABLE CONTINUED ON PG. 6-7, SEE FOOTNOTES ON PG. 6-8



Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet

STYLE 920/920N CROSS ASSEMBLIES

Grooved/Female Threaded Outlet

For Complete Information Request Publication **11.03**



- Available grooved and threaded
- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½ × ½" / 50 × 15 × 15 mm through 8 × 4 × 4" / 200 × 100 × 100 mm

| Size | | | | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | | |
|-------------------------------------|-----|-----------|---|-----------|---------------------|------------------------|-----------------------------------|-------------|--------------------|-------------|-----------------------------------|-------------|--------------------|-------------|
| Nominal Size Inches/mm | | | | | | Branch A | | | | Branch B | | | | |
| Run | × | Branch A | × | | | Branch B | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | |
| | | | | Grooved | Threaded | | Required | Maximum | Grooved | Threaded | Required | Maximum | | |
| TABLE CONTINUED FROM PG. 6-6 | | | | | | | | | | | | | | |
| 4 100 | × | 1 25 | × | 1 25 | 920N | 400 2750 | — | 2.88 73 | 1.50 38 | 1.63 41 | — | 2.88 73 | 1.50 38 | 1.63 41 |
| | | | | 1 ¼ 32 | 920N | 400 2750 | — | 2.88 73 | 1.50 38 | 1.63 41 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 |
| | | | | 1 ½ 40 | 920N | 400 2750 | — | 2.88 73 | 1.50 38 | 1.63 41 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | 920N | 400 2750 | — | 2.88 73 | 1.50 38 | 1.63 41 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 |
| | | 1 ¼ 32 | × | 1 ¼ 32 | 920N | 400 2750 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 |
| | | | | 1 ½ 40 | 920N | 400 2750 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | 920N | 400 2750 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 |
| | | 1 ½ 40 | × | 1 ¼ 32 | 920N | 400 2750 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 | 4.00 102 | 3.07 78 | 1.75 44 | 1.88 48 |
| | | | | 1 ½ 40 | 920N | 400 2750 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | 920N | 400 2750 | 4.00 102 | 3.28 83 | 2.00 51 | 2.13 54 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 |
| | | 2 50 | × | 2 50 | 920N | 400 2750 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 | 4.00 102 | 3.24 82 | 2.50 64 | 2.63 67 |
| | | | | 2 ½ 65 | 920 | 400 2750 | 4.00 102 | 3.06 78 | 2.75 70 | 2.88 73 | 4.00 102 | 3.06 78 | 2.75 70 | 2.88 73 |
| | | | | 76.1 | 920 | 400 2750 | 4.00 102 | 3.06 78 | 2.75 70 | 2.88 73 | 4.00 102 | — | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | 4.00 102 | — | 2.75 70 | 2.88 73 | 4.00 102 | — | 2.75 70 | 2.88 73 |
| | | | | 3 80 | 920 | 400 2750 | 4.00 102 | — | 2.75 70 | 2.88 73 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 |
| | | | | 3 80 | 920 | 400 2750 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 | 4.00 102 | 3.06 78 | 2.75 70 | 2.88 73 |
| | | 3 80 | × | 2 ½ 65 | 920 | 400 2750 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 | 4.00 102 | 3.06 78 | 2.75 70 | 2.88 73 |
| | | | | 3 80 | 920 | 400 2750 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 |
| | | | | 3 80 | 920 | 400 2750 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 | 4.13 105 | 3.50 89 | 3.50 89 | 3.63 92 |
| 5 125 | × | 1 ½ 40 | × | 1 ½ 40 | 920 | 400 2750 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 |
| | | | | 76.1 | 920 | 400 2750 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 | — | 3.81 97 | 2.75 70 | 2.88 73 |
| | | 2 50 | × | 1 ½ 40 | 920 | 400 2750 | 4.75 121 | 4.06 103 | 2.50 64 | 2.13 54 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | 920 | 400 2750 | 4.75 121 | 4.06 103 | 2.50 64 | 2.63 67 | 4.75 121 | 4.06 103 | 2.50 64 | 2.63 67 |
| | | | | 76.1 | 920 | 400 2750 | 4.75 121 | 4.06 103 | 2.50 64 | 2.63 67 | — | 3.81 97 | 3.50 89 | 3.63 92 |
| | | 2 ½ 65 | × | 1 ½ 40 | 920 | 400 2750 | 4.75 121 | 3.81 97 | 2.75 70 | 2.88 73 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | 920 | 400 2750 | 4.75 121 | 3.81 97 | 2.75 70 | 2.88 73 | 4.75 121 | 4.06 103 | 2.50 64 | 2.63 67 |
| | | | | 2 ½ 65 | 920 | 400 2750 | 4.75 121 | 3.81 97 | 2.75 70 | 2.88 73 | 4.75 121 | 3.81 97 | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | — | 3.81 97 | 3.50 89 | 3.63 92 | — | 3.81 97 | 3.50 89 | 3.63 92 |
| | | | | 3 80 | 920 | 400 2750 | — | 3.81 97 | 3.50 89 | 3.63 92 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 |
| | | | | 3 80 | 920 | 400 2750 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 | 4.75 121 | 4.06 103 | 2.00 51 | 2.13 54 |
| | | | | 2 50 | × | 1 ½ 40 | 920 | 400 2750 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 | 4.75 121 | 4.06 103 |
| 2 ½ 65 | 920 | | | | | 400 2750 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 | 4.75 121 | 3.81 97 | 2.75 70 | 2.88 73 |
| 3 80 | 920 | | | | | 400 2750 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 | 4.63 118 | 4.00 102 | 3.50 89 | 3.63 92 |

TABLE CONTINUED ON PG. 6-8, SEE FOOTNOTES ON PG. 6-8

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

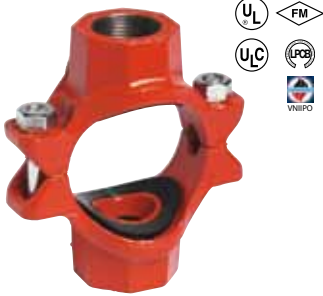
Hole Cut Piping System

Mechanical-T® Bolted Branch Outlet

STYLE 920/920N CROSS ASSEMBLIES

Grooved/Female Threaded Outlet

For Complete Information Request Publication **11.03**



- Available grooved and threaded
- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Pressure rated up to 400 psi/2750 kPa
- Sizes from 2 × ½ × ½"/50 × 15 × 15 mm through 8 × 4 × 4"/200 × 100 × 100 mm

| Size | | | Style No. | Max. Work Pressure@ | Dimensions – Inches/mm | | | | | | | | | |
|-------------------------------------|--------|-----------|-----------|-----------------------------------|------------------------|--------------------|-------------|-----------------------------------|-------------|--------------------|-------------|-------------|-------------|-------------|
| Nominal Size Inches mm | Branch | | | | Branch A | | | | Branch B | | | | | |
| | Run | A | B | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | Outlet Type Take Out Dimensions ‡ | | Hole Size Diameter | | | | |
| | | | | Grooved | Threaded | Required | Maximum | Grooved | Threaded | Required | Maximum | | | |
| TABLE CONTINUED FROM PG. 6-7 | | | | | | | | | | | | | | |
| 6 150 | × | 1 ¼ 32 | × | 1 ¼ 32 | 920N | 400 2750 | 5.13 130 | — | 1.75 44 | 1.88 48 | 5.13 130 | — | 1.75 44 | 1.88 48 |
| | | 1 ½ 40 | × | 1 ½ 40 | 920N | 400 2750 | 5.13 130 | — | 1.75 44 | 1.88 48 | 5.13 130 | 4.40 112 | 2.00 51 | 2.13 54 |
| | | 2 | × | 50 | 920N | 400 2750 | 5.13 130 | — | 1.75 44 | 1.88 48 | 5.13 130 | 4.37 111 | 2.50 64 | 2.63 67 |
| | | 1 ½ 40 | × | 1 ½ 40 | 920N | 400 2750 | 5.13 130 | 4.40 112 | 2.00 51 | 2.13 54 | 5.13 130 | 4.40 112 | 2.00 51 | 2.13 54 |
| | | 2 | × | 50 | 920N | 400 2750 | 5.13 130 | 4.40 112 | 2.00 51 | 2.13 54 | 5.13 130 | 4.37 111 | 2.50 64 | 2.63 67 |
| | | 2 | × | 50 | 920N | 400 2750 | 5.13 130 | 4.37 111 | 2.50 64 | 2.63 67 | 5.13 130 | 4.37 111 | 2.50 64 | 2.63 67 |
| | | 2 ½ 65 | × | 2 ½ 65 | 920 | 400 2750 | 5.13 130 | 4.19 106 | 2.75 70 | 2.88 73 | 5.13 130 | 4.19 106 | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | 5.13 130 | 4.19 106 | 2.75 70 | 2.88 73 | 5.21 132 | — | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 300 2065 | 5.13 130 | 4.50 114 | 3.50 89 | 3.63 92 | 5.13 130 | 4.19 106 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 300 2065 | 5.13 130 | 4.50 114 | 3.50 89 | 3.63 92 | 5.13 130 | 4.50 114 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 300 2065 | 5.38 137 | 4.25 108 | 4.50 114 | 4.63 118 | 5.13 130 | 4.19 106 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 300 2065 | 5.38 137 | 4.25 108 | 4.50 114 | 4.63 118 | 5.13 130 | 4.50 114 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 300 2065 | 5.38 137 | 4.25 108 | 4.50 114 | 4.63 118 | 5.38 137 | 4.25 108 | 4.50 114 | 4.63 118 |
| | | 8 | × | 200 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | — | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 2 ½ 65 | × | 2 ½ 65 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | — | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 |
| | | 2 ½ 65 | × | 2 ½ 65 | 920 | 400 2750 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 | — | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 76.1 | × | 76.1 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | — | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 400 2750 | — | 5.19 132 | 2.75 70 | 2.88 73 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 |
| | | 3 | × | 80 | 920 | 300 2065 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 300 2065 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 300 2065 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 | 6.25 159 | 5.19 132 | 2.75 70 | 2.88 73 |
| | | 3 | × | 80 | 920 | 300 2065 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 | 6.25 159 | 5.50 140 | 3.50 89 | 3.63 92 |
| | | 4 | × | 100 | 920 | 300 2065 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 | 6.38 162 | 5.31 135 | 4.50 114 | 4.63 118 |

@ These pressure ratings are general guidelines. Please consult Publication 10.01 for specific pressure ratings by type of pipe.

‡ Center of run to engage pipe end (dimensions approximate).

IMPORTANT NOTES:

Style 920 and Style 920N housings cannot be mated to one another to achieve cross connections.

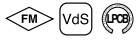


Hole Cut Piping System

FireLock® Low-Profile Sprinkler Tee - EMEA only

STYLE 912

For Complete Information
Request Publication **10.53**

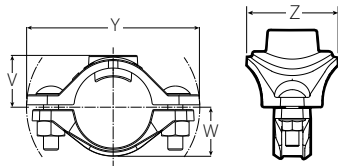


- provides 1/2"/15 mm outlet for connecting sprinklers
- FM Approved for 300 psi/ 2068 kPa
- LPCB and VdS approved for 20 bar/232 psi
- Available in EMEA only
- Sizes from 1 - 1 1/2"/25 - 40mm
- To be used for sprinklers only

| Nominal Size (inches) Actual (mm) | | | Hole Diameter | | | | | Approximate Weight Each |
|--------------------------------------|---|-------------|--------------------------|--------------|--------------|---------------|--------------|----------------------------|
| Run x Branch FPT† | | | +0.06/+1.5 -0.00/-0,0 | V | W | Y | Z | lbs/kg |
| 1 33.7 | x | 1/2 21.3 | 1 5/16 24.0 | 1.00 25.4 | 0.90 22.9 | 3.72 94.6 | 1.50 38.1 | 0.67 0.30 |
| 1 1/4 42.4 | x | 1/2 21.3 | 1 5/16 24.0 | 1.17 29.8 | 1.10 27.9 | 4.12 104.7 | 1.50 38.1 | 0.74 0.33 |
| 1 1/2 48.3 | x | 1/2 21.3 | 1 5/16 24.0 | 1.29 32.8 | 1.22 31.0 | 4.32 109.8 | 1.50 38.1 | 0.76 0.34 |

† Victaulic female threaded products are designed to accommodate standard NPT or BSPT (optional) male pipe threads only. Use of male threaded products with special features, such as probes, dry pendent sprinklers, etc., should be verified as suitable for use with this Victaulic product. Failure to verify suitability in advance may result in assembly problems or leakage.

* Center of run to engaged pipe end for NPT threads (dimensions are approximate).



Hole Cut Piping System

FireLock® Outlet-T

STYLE 922

For Complete Information
Request Publication **10.52**

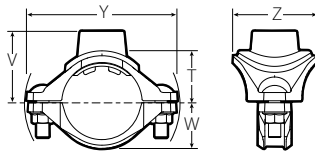


- Incorporates ½–1" / 10–25 mm outlets for directly connecting sprinklers, drop nipples, sprigs, gauges, drains and other outlet products
- UL/ULC Listed, LPCB, VdS/FM Approved for branch connections on wet and dry systems
- Style 922 FireLock Outlet-Ts are not approved for cross configurations
- Pressure rated up to 300 psi/2065 kPa and rated up to 230 psi/16 Bar at the ambient temperatures typical for fire protection systems
- Sizes from 1¼ × ½" / 32 × 15 mm through 2½ × 1" / 76.1 × 25 mm

| Size | | Hole Diameter | Dimensions – Inches/mm | | | | | Approx. Wgt. Each |
|------------------------------------|--------------|--------------------------|------------------------|--------------|--------------|---------------|--------------|-------------------|
| Run × Branch Female Pipe Threads † | | +0.06/+1.5 -0.00/-0.0 | T * | V | W | Y | Z | Lbs. kg |
| Nominal Size Inches | mm | | | | | | | |
| 1¼ 32 | × ½ 15 | 1¾ 30.2 | 1.30 33.0 | 1.83 46.5 | 1.10 27.9 | 3.87 98.3 | 2.56 65.0 | 1.0 0.45 |
| | | ¾ 20 | 1.28 32.5 | 1.83 46.5 | 1.10 27.9 | 3.87 98.3 | 2.56 65.0 | 1.1 0.50 |
| | | 1 25 | 1.52 38.6 | 2.18 55.4 | 1.10 27.9 | 3.87 98.3 | 2.56 65.0 | 1.2 0.54 |
| 1½ 40 | × ½ 15 | 1¾ 30.2 | 1.42 36.1 | 1.95 49.5 | 1.22 31.0 | 4.08 103.6 | 2.56 65.0 | 1.2 0.54 |
| | | ¾ 20 | 1.40 35.6 | 1.95 49.5 | 1.22 31.0 | 4.08 103.6 | 2.56 65.0 | 1.2 0.54 |
| | | 1 25 | 1.64 41.7 | 2.30 58.4 | 1.22 31.0 | 4.08 103.6 | 2.56 65.0 | 1.3 0.59 |
| 2 50 | × ½ 15 | 1¾ 30.2 | 1.66 42.2 | 2.19 55.6 | 1.46 37.1 | 4.60 116.8 | 2.56 65.0 | 1.3 0.59 |
| | | ¾ 20 | 1.64 41.7 | 2.19 55.6 | 1.46 37.1 | 4.60 116.8 | 2.56 65.0 | 1.4 0.64 |
| | | 1 25 | 1.88 47.8 | 2.54 64.5 | 1.46 37.1 | 4.60 116.8 | 2.56 65.0 | 1.5 0.68 |
| 2½ 65 | × ½ 15 | 1¾ 30.2 | 1.91 48.5 | 2.44 62.0 | 1.71 43.4 | 5.40 137.2 | 2.56 65.0 | 1.6 0.73 |
| | | ¾ 20 | 1.89 48.0 | 2.44 62.0 | 1.71 43.4 | 5.40 137.2 | 2.56 65.0 | 1.6 0.73 |
| | | 1 25 | 2.13 54.1 | 2.79 70.9 | 1.71 43.4 | 5.40 137.2 | 2.56 65.0 | 1.6 0.73 |
| 76.1 mm | × ½ 15 | 1¾ 30.2 | 1.91 48.5 | 2.44 62.0 | 1.71 43.4 | 5.50 139.7 | 2.56 65.0 | 1.6 0.73 |
| | | ¾ 20 | 1.89 48.0 | 2.44 62.0 | 1.71 43.4 | 5.50 139.7 | 2.56 65.0 | 1.6 0.73 |
| | | 1 25 | 2.13 54.1 | 2.79 70.9 | 1.71 43.4 | 5.50 139.7 | 2.56 65.0 | 1.7 0.80 |

† Victaulic female threaded products are designed to accommodate standard NPT or BSPT (optional) male pipe threads only. Use of male threaded products with special features, such as probes, dry pendent sprinklers, etc., should be verified as suitable for use with this Victaulic product. Failure to verify suitability in advance may result in assembly problems or leakage.

* Center of run to engaged pipe end for NPT threads (dimensions are approximate).



TYPICAL FOR ALL SIZES

Hole Cut Piping System

Vic-Let™ Strapless Outlet

STYLE 923

For Complete Information
Request Publication **11.05**



TYPICAL 4-8"/100-200 mm IPS SIZES



TYPICAL 10"/250 mm AND LARGER SIZES

| Size Run × Branch Nominal Size Inches mm | Max. Work Pressure psi * kPa | Dimensions – Inches/mm | | | | | | Approx. Weight Each Lbs. kg |
|--|---------------------------------------|------------------------|-----------------|--------------------|------|-------|-----|--------------------------------------|
| | | Hole Dimensions | | Vic-Let Dimensions | | | | |
| | | Hole Saw Size | Max. Perm. Dia. | T ** | X | Y *** | | |
| 4 – 8 100 – 200 | 1/2 15 | 1.50 | 1.56 | 2.47 | 3.00 | 3.09 | 1.9 | |
| | | 38.1 | 39.6 | 63 | 76 | 78 | 0.9 | |
| | 3/4 20 | 1.50 | 1.56 | 2.44 | 3.00 | 3.09 | 1.6 | |
| 38.1 | | 39.6 | 62 | 76 | 78 | 0.7 | | |
| 10 – larger 250 – larger | 1/2 15 | 1.50 | 1.56 | 2.47 | 3.00 | 3.00 | 1.9 | |
| | | 38.1 | 39.6 | 63 | 76 | 76 | 0.9 | |
| | 3/4 20 | 1.50 | 1.56 | 2.44 | 3.00 | 3.00 | 1.6 | |
| 38.1 | | 39.6 | 62 | 76 | 76 | 0.7 | | |

* On schedule 40 pipe 4-8"/100-200mm and Schedule 10-40 for sizes 10"/250mm and larger. Minimum 0.165"/4.2mm, maximum 0.375"/9.5mm wall thickness on large pipe or flat plate. Pressure rating is for Vic-Let outlet only, pipe used must also be rated at this pressure or higher. Pressure rating is 200psi/1375kPa for standard wall aluminum pipe.

** Inside wall of run to engaged pipe end.

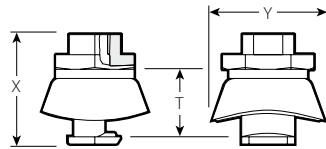
*** Width of collar is as supplied, width assembled changes due to collar deformation at assembly.

IMPORTANT NOTES:

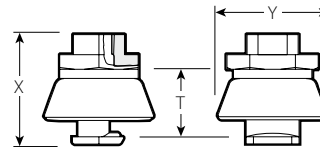
Flow Data: Flow area equivalent to 3/4"/20mm pipe. Accepts 7/16"/11mm diameter probe.

Warning: Always depressurize system and drain before disassembly.

DUE TO DEFORMATION OF THE COLLAR, VIC-LET OUTLET SHOULD NOT BE RE-USED AFTER INITIAL INSTALLATION.



TYPICAL 4-8"/100-200 mm IPS SIZES



TYPICAL 10"/250 mm AND LARGER SIZES



- Fast, easy pipe outlet eliminates the need for welded outlets
- Pressure rated up to 300 psi/2065 kPa
- Standard wall pipe steel pipe for sizes 4-8"/100-200mm and Schedules 10-40 steel pipe for sizes 10"/250mm and larger

Hole Cut Piping System

Valves and Accessories

Valves

FireLock®
Butterfly Valve –
Supervised OPEN

SERIES 705, PG. 7-3



FireLock High Pressure
Butterfly Valve –
Supervised OPEN

SERIES 765, PG. 7-4



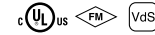
FireLock
Butterfly Valve –
Supervised CLOSED

SERIES 707C, PG. 7-5



FireLock High
Pressure Butterfly
Valve – Supervised
CLOSED

SERIES 766, PG. 7-6



FireLock
Check Valve

SERIES 717, PG. 7-7



FireLock Small
Diameter High
Pressure Check Valve

SERIES 717H, PG. 7-7



FireLock Riser
Check Valve

SERIES 717R, PG. 7-9



FireLock Small Diameter
High Pressure Riser
Check Valve

SERIES 717HR, PG. 7-9



FireLock OS & Y
Gate Valve

SERIES 771H, PG. 7-11
SERIES 771F, PG. 7-11



Available
Groove x Groove
and
Groove x Flange*

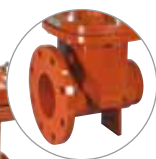


FireLock NRS
Gate Valve

SERIES 772H, PG. 7-12
SERIES 772F, PG. 7-12



Available
Groove x Groove
and
Groove x Flange*



FireLock Ball Valve

SERIES 728, PG. 7-13



Grooved Ends



Threaded Ends

* Groove x Flange versions not available in EMEA

Valves and Accessories

Victaulic Innovations

Since 1952, when Victaulic received the first UL approval for a grooved coupling, our continuing mission is to find faster and easier ways to join fire protection systems.

A typical example of this effort is the TestMaster™ II Alarm Test Module. Before the TestMaster was developed, test and drain loops consisted of 24 individual pieces that all had to be joined. The TestMaster alarm module reduced this to one-piece and two joints, greatly reducing the time and physical space needed for test and drain loop assemblies.

Accessories

FireLock® Residential Zone Control Riser Module

SERIES 247, PG. 7-14



FireLock Commercial Zone Control Riser Module

SERIES 747M, PG. 7-15



Fire Pump Test Meter

SERIES 735, PG. 7-17



TestMaster II Alarm Test Module

SERIES 720, PG. 7-16



Groove Ends



Threaded Ends



Pressure Relief Option

PRODUCTS

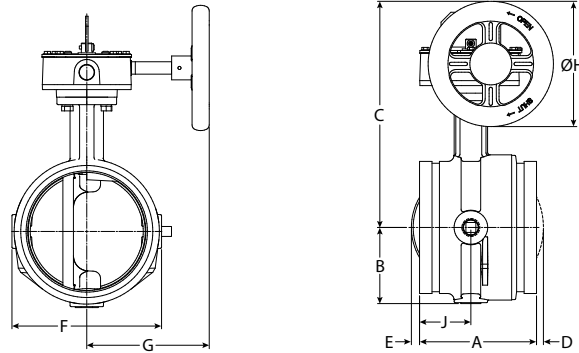
- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex® Sprinkler Fittings
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories**
- 8-1 FireLock Automatic Devices and Accessories
- 9-1 FireLock Automatic Sprinklers
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools
- 12-1 Product Index

Valves and Accessories

FireLock® Butterfly Valve – Supervised OPEN

SERIES 705

For Complete Information
Request Publication 10.81



- Weatherproof actuator housing approved for indoor or outdoor use
- Ductile iron body and disc with Nitrile seats
- All sizes available with a 1/2"15mm NPT supply side tap
- The FireLock Series 705W Butterfly Valve is also available. 2 1/2 - 12"/65 - 300mm sizes are pressure rated up to 300 psi/2065 kPa and are FM Approved, cULus Listed, and LPCB Approved. VdS approved when part of the Vic-Quick Riser. See Submittal Publication 10.81 for more information.
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 2 - 12"/50 - 300mm

| Size | | Dimensions – Inches/millimeters | | | | | | | | | |
|------------------------------|------------------|---------------------------------|---------------|----------------|--------------|--------------|----------------|---------------|---------------|--------------|---------------|
| Nominal Size inches mm | Outside Diameter | End to End A | B | C | D | E | F | G | DIA H | J | Wgt. lb/kg |
| 2 60.3 | 2.375 60.3 | 4.25 108.0 | 2.28 57.9 | 6.41 162.8 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 2.12 53.8 | 8.2 3.71 |
| 2½ 73 | 2.875 73.0 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 |
| 76.1 | 3.000 76.1 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 |
| 3 88.9 | 3.500 88.9 | 3.77 95.8 | 2.53 64.3 | 7.79 197.9 | — | — | 4.50 114.3 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 10.7 4.9 |
| 108 | 4.250 108.0 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | — |
| 4 114.3 | 4.500 114.3 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | 14.0 6.4 |
| 133 | 5.250 133.0 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — |
| 139.7 | 5.500 139.7 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.6 | — |
| 5 141.3 | 5.563 141.3 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 25.4 11.5 |
| 159 | 6.250 159.0 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — |
| 165.1 | 6.500 165.1 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 28.7 13.0 |
| 6 168.3 | 6.625 168.3 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 1.90 48.3 | 28.7 13.0 |
| 8 219.1 | 8.625 219.1 | 5.33 135.4 | 5.07 128.8 | 13.53 343.6 | 0.80 20.3 | 1.47 37.3 | 10.00 254.0 | 6.19 157.2 | 8.10 205.7 | 2.33 59.2 | 43.0 19.5 |
| 10 273 | 10.750 273.0 | 6.40 162.6 | 6.37 161.8 | 15.64 397.3 | 1.41 35.8 | 1.81 46.0 | 12.25 311.2 | 8.10 205.7 | 9.00 228.6 | — | 80.6 36.5 |
| 12 323.9 | 12.750 323.9 | 6.50 165.1 | 7.36 186.9 | 16.64 422.7 | 2.30 58.4 | 2.80 71.1 | 14.25 362.0 | 8.10 205.7 | 9.00 228.6 | — | 94.6 42.9 |

* On centerline.

IMPORTANT NOTES

To prevent rotation of valves, it is recommended that Series 705 be installed with Victaulic Style 07 Zero-Flex®, Style 005 FireLock, Style 009H FireLock EZ® or Style HP-70 rigid couplings. If Victaulic flexible couplings are used, additional support may be required.

Valve **must not** be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

Victaulic grooved end butterfly valves are permitted for use with grooved end pipe (IPS) only. Not permitted for use with plain end (IPS) pipe.

Series 705 valves are designed for ambient weather conditions as opposed to submersible service.

Valves and Accessories

FireLock® High Pressure Butterfly Valve – Supervised OPEN

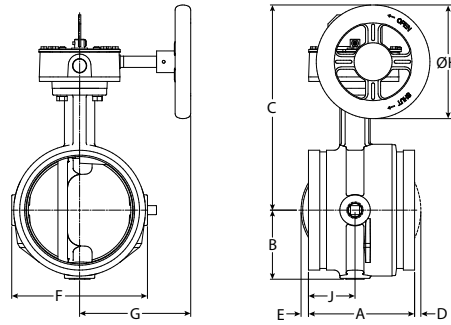
SERIES 765

For Complete Information Request Publication **10.80**



- Weatherproof actuator housing approved for indoor and outdoor use
- Ductile iron body and disc with Nitrile seats
- Designed for fire protection services only
- All sizes available with a 1/2"/15mm NPT supply side tap
- Sizes from 2 -12"/65 - 300mm
- Pressure rated up to 365 psi/2517 kPa
- Sizes 2 - 6"/60.3 - 168.3 mm are VdS approved to 25 bar

Note: Sizes 10 -12" are FM Approved for services up to 300 psi/2068 kPa



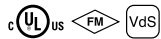
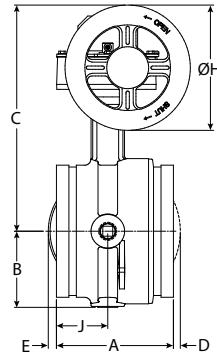
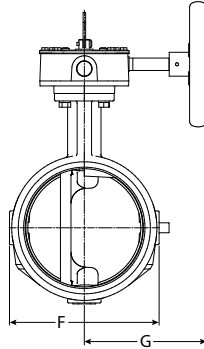
| Size | | Dimensions – Inches/millimeters | | | | | | | | | | |
|------------------------------|----------------------------------|---------------------------------|---------------|----------------|--------------|--------------|----------------|---------------|---------------|--------------|---------------|--|
| Nominal Size Inches mm | Actual Out. Dia. Inches mm | A E to E | B | C | D | E | F | G | DIA H | J | Wgt. lb/kg | |
| 2 60.3 | 2.375 60.3 | 4.25 108.0 | 2.28 57.9 | 6.41 162.8 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 2.12 53.8 | 8.2 3.71 | |
| 2½ 73 | 2.875 73.0 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 | |
| 76.1 | 3.000 76.1 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 | |
| 3 88.9 | 3.500 88.9 | 3.77 95.8 | 2.53 64.3 | 7.79 197.9 | — | — | 4.50 114.3 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 10.7 4.9 | |
| 108 | 4.250 108.0 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | — | |
| 4 114.3 | 4.500 114.3 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | 14.0 6.4 | |
| 133 | 5.250 133.0 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — | |
| 139.7 | 5.500 139.7 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.6 | — | |
| 5 141.3 | 5.563 141.3 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 25.4 11.5 | |
| 159 | 6.250 159.0 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — | |
| 165.1 | 6.500 165.1 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 28.7 13.0 | |
| 6 168.3 | 6.625 168.3 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 1.90 48.3 | 28.7 13.0 | |
| 8 | 8.625 219.1 | 5.33 135.4 | 5.07 128.8 | 12.63 320.8 | 0.80 20.3 | 1.47 37.3 | 10.00 254.0 | 6.19 157.2 | 6.30 160.0 | 2.33 59.2 | 43.0 19.5 | |
| 10 273 | 10.750 273.0 | 6.40 162.6 | 6.37 161.8 | 15.64 397.3 | 1.41 35.8 | 1.81 46.0 | 12.25 311.2 | 8.10 205.7 | 9.00 228.6 | — | 80.6 36.5 | |
| 12 323.9 | 12.750 323.9 | 6.50 165.1 | 7.36 186.9 | 16.64 422.7 | 2.30 58.4 | 2.80 71.1 | 14.25 362.0 | 8.10 205.7 | 9.00 228.6 | — | 94.6 42.9 | |

Valves and Accessories

FireLock® Butterfly Valve – Supervised CLOSED

SERIES 707C

For Complete Information
Request Publication 10.75



- Weatherproof actuator housing approved for indoor or outdoor use on fire pump bypass lines and rooftop test units
- Designed to be Supervised Closed during normal operating conditions
- Ductile iron body and disc with EPDM disc coating
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 2–8" / 50–200 mm

| Size | | Dimensions – Inches/millimeters | | | | | | | | | |
|------------------------------|------------------|---------------------------------|---------------|----------------|--------------|--------------|----------------|---------------|---------------|--------------|---------------|
| Nominal Size inches mm | Outside Diameter | End to End A | B | C | D | E | F | G | DIA H | J | Wgt. lb/kg |
| 2 60.3 | 2.375 60.3 | 4.25 108.0 | 2.28 57.9 | 6.41 162.8 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 2.12 53.8 | 8.2 3.71 |
| 2½ 73 | 2.875 73.0 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 |
| 76.1 mm | 3.000 76.1 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 |
| 3 88.9 | 3.500 88.9 | 3.77 95.8 | 2.53 64.3 | 7.79 197.9 | — | — | 4.50 114.3 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 10.7 4.9 |
| 108 mm | 4.250 108.0 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | — |
| 4 114.3 | 4.500 114.3 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | 14.0 6.4 |
| 133 mm | 5.250 133.0 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — |
| 139.7 mm | 5.500 139.7 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — |
| 5 141.3 | 5.563 141.3 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 25.4 11.5 |
| 159 mm | 6.250 159.0 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — |
| 165.1 mm | 6.500 165.1 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 28.7 13.0 |
| 6 168 | 6.625 168.3 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 1.90 48.3 | 28.7 13.0 |
| 8 219.1 | 8.625 219.1 | 5.33 135.4 | 5.07 128.8 | 13.53 343.6 | 0.80 20.3 | 1.47 37.3 | 10.00 254.0 | 6.19 157.2 | 8.10 205.7 | 2.33 59.2 | 43.0 19.5 |

IMPORTANT NOTES

To prevent rotation of valves, it is recommended that Series 707C be installed with Victaulic Style 07 Zero-Flex®, Style 005 Firelock, Style 009 FireLock EZ® or Style HP-70 rigid couplings. If Victaulic flexible couplings are used, additional support may be required.

Valve **must not** be installed with disc in full open position. Disc must be partly closed so that no part is protruding beyond end of valve body.

Victaulic grooved end butterfly valves are permitted for use with grooved end pipe (IPS) only. Not permitted for use with plain end (IPS) pipe.

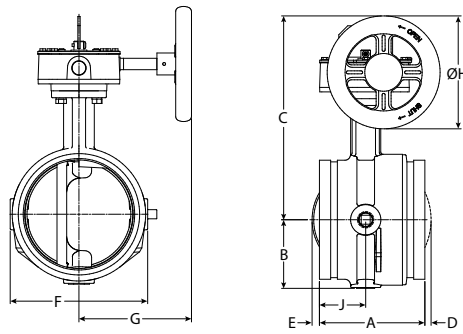
Series 707C valves are designed for ambient weather conditions as opposed to submersible service.

Valves and Accessories

FireLock® High Pressure Butterfly Valve – Supervised CLOSED

SERIES 766

For Complete Information Request Publication **10.83**



- Weatherproof actuator housing approved for indoor or outdoor use on fire pump bypass lines and rooftop test units
- Designed to be Supervised Closed during normal operating conditions
- Ductile iron body and disc with Nitrile seats
- Sizes from 2 - 8"/65 - 200mm
- Pressure rated up to 365 psi/2517 kPa

| Size | | Dimensions – Inches/millimeters | | | | | | | | | | |
|------------------------|------------------|---------------------------------|---------------|----------------|--------------|--------------|----------------|---------------|---------------|--------------|--------------|--|
| Nominal Size inches mm | Outside Diameter | End to End A | B | C | D | E | F | G | DIA H | J | Wgt. lb/kg | |
| 2 60.3 | 2.375 60.3 | 4.25 108.0 | 2.28 57.9 | 6.41 162.8 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 2.12 53.8 | 8.2 3.71 | |
| 2½ 73 | 2.875 73.0 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 | |
| 76.1 mm | 3.000 76.1 | 3.77 95.8 | 2.28 57.9 | 7.54 191.5 | — | — | 4.00 101.6 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 9.7 4.4 | |
| 3 88.9 | 3.500 88.9 | 3.77 95.8 | 2.53 64.3 | 7.79 197.9 | — | — | 4.50 114.3 | 4.22 107.2 | 4.50 114.3 | 1.77 45.0 | 10.7 4.9 | |
| 108 mm | 4.250 108.0 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | — | |
| 4 114.3 | 4.500 114.3 | 4.63 117.6 | 2.88 73.2 | 8.81 223.8 | — | — | 5.50 139.7 | 4.22 107.2 | 4.50 114.3 | 2.20 55.9 | 14.0 6.4 | |
| 133 mm | 5.250 133.0 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — | |
| 139.7 mm | 5.500 139.7 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — | |
| 5 141.3 | 5.563 141.3 | 5.88 149.4 | 3.35 85.1 | 10.88 276.4 | — | — | 6.56 166.6 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 25.4 11.5 | |
| 159 mm | 6.250 159.0 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | — | |
| 165.1 mm | 6.500 165.1 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 2.58 65.5 | 28.7 13.0 | |
| 6 168.3 | 6.625 168.3 | 5.88 149.4 | 3.84 97.5 | 11.38 289.1 | — | 0.41 10.4 | 7.52 191.0 | 6.19 157.2 | 6.30 160.0 | 1.90 48.3 | 28.7 13.0 | |
| 8 219.1 | 8.625 219.1 | 5.33 135.4 | 5.07 128.8 | 13.53 343.6 | 0.80 20.3 | 1.47 37.3 | 10.00 254.0 | 6.19 157.2 | 8.1 205.7 | 2.33 59.2 | 43.0 19.5 | |

Valves and Accessories

FireLock® Check Valve

SERIES 717
SERIES 717H HIGH PRESSURE
SMALL DIAMETER

For Complete Information
 Request Publication **10.08**



Series 717
 TYPICAL 4 – 12"/100 – 300mm

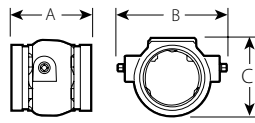


Series 717H High Pressure Check Valve
 TYPICAL 2 – 3"/50 – 80mm

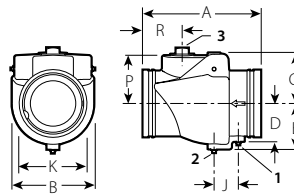


- Can be installed in both horizontal or vertical positions
- Series 717 sizes from 2½–3"/65–80mm are UL/ULC Listed
- See charts below for Approved and Listed service pressures
- Series 717 sizes from 2½–12"/65–300mm
- Series 717H sizes from 2–3"/50–80mm

DIMENSIONS – SERIES 717

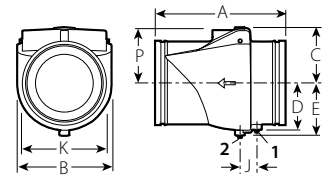


TYPICAL 2½–3"/65–80mm SIZES



TYPICAL 4–8"/100–200mm SIZES

- 1 ½"/12.7 mm NPT upstream drain (optional)
- 2 ½"/12.7 mm NPT downstream drain (optional)
- 3 2"/50.8 mm NPT drain (optional)

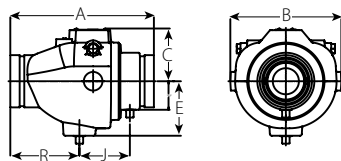


TYPICAL 10–12"/250–300mm SIZES

- 1 ½"/12.7 mm NPT upstream drain (optional)
- 2 ½"/12.7 mm NPT downstream drain (optional)

| Size | | SERIES 717 – Dimensions – Inches/millimeters | | | | | | | | | | Approx. Wgt. Ea. |
|------------------------|-----------------------------------|--|--------------|-------------|-------------|-------------|------------|--------------|-------------|-------------|---------------|------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | E to E | | C | D | E | J | K | P | R | Lbs. kg | |
| | | A | B | | | | | | | | | |
| 2½ 65 | 2.875 73.0 | 3.88 99 | 4.26 108 | 3.57 91 | — | — | — | — | — | — | 3.6 1.6 | |
| 76.1 mm | 3.000 76.1 | 3.88 99 | 4.26 108 | 3.57 91 | — | — | — | — | — | — | 3.6 1.6 | |
| 3 80 | 3.500 88.9 | 4.25 108 | 5.06 129 | 4.17 106 | — | — | — | — | — | — | 4.5 2.0 | |
| 4 100 | 4.500 114.3 | 9.63 245 | 6.00 152 | 3.88 99 | 2.75 70 | 3.50 89 | 2.00 51 | 4.50 114 | 3.50 89 | 3.35 85 | 20.0 9.1 | |
| 5 125 | 5.563 141.3 | 10.50 267 | 6.80 173 | 4.50 114 | — | 4.17 106 | 2.15 55 | 5.88 149 | 4.08 104 | 3.98 101 | 27.0 12.3 | |
| 139.7 mm | 5.500 139.7 | 10.50 267 | 6.80 173 | 4.50 114 | — | 4.17 106 | 2.15 55 | 5.88 149 | 4.08 104 | 3.98 101 | 27.0 12.3 | |
| 6 150 | 6.625 168.3 | 11.50 292 | 8.00 203 | 5.00 127 | — | 4.50 114 | 2.38 61 | 6.67 169 | 4.73 120 | 3.89 99 | 38.0 17.2 | |
| 165.1 mm | 6.500 165.1 | 11.50 292 | 8.00 203 | 5.00 127 | — | 4.50 114 | 2.38 61 | 6.67 169 | 4.73 120 | 3.89 99 | 38.0 17.2 | |
| 8 200 | 8.625 219.1 | 14.00 356 | 9.88 251 | 6.06 154 | 5.05 128 | 5.65 144 | 2.15 55 | 8.85 225 | 5.65 144 | 5.75 146 | 64.0 29.0 | |
| 10 250 | 10.750 273.0 | 17.00 432 | 12.00 305 | 7.09 180 | 5.96 151 | 6.69 170 | 2.15 55 | 10.92 277 | 6.73 171 | — | 100.0 45.4 | |
| 12 300 | 12.750 323.9 | 19.50 495 | 14.00 356 | 8.06 205 | 6.91 176 | 7.64 194 | 2.51 64 | 12.81 925 | 7.73 196 | — | 140.0 63.5 | |

DIMENSIONS – SERIES 717H



TYPICAL 2"/60.3 mm – 3"/88.9 mm

| Size | | SERIES 717H – Dimensions – Inches/millimeters | | | | | | | | | Approx. Wgt. Ea. |
|------------------------|---------------|---|--------------|--------------|--------------|--------------|---|---|---|---------------|------------------|
| Nominal Size Inches mm | | A | B | C | D | E | J | K | P | R | Lbs. kg |
| | | | | | | | | | | | |
| 2½ 73 | 9.37 238.0 | 6.94 176.3 | 3.31 84.1 | 1.66 42.2 | 3.40 86.4 | 3.38 85.9 | — | — | — | 4.38 111.3 | 13.8 6.3 |
| 76.1 mm | 9.37 238.0 | 6.94 176.3 | 3.31 84.1 | 1.66 42.2 | 3.40 86.4 | 3.38 85.9 | — | — | — | 4.38 111.3 | 13.8 6.3 |
| 3 88.9 | 9.62 244.3 | 7.44 189.0 | 3.53 89.7 | 1.91 48.5 | 3.65 92.7 | 3.38 85.9 | — | — | — | 4.63 117.6 | 20.0 9.1 |

Valves and Accessories

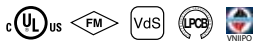
FireLock® Check Valve

SERIES 717 SERIES 717H HIGH PRESSURE SMALL DIAMETER

For Complete Information
Request Publication **10.08**



Series 717
TYPICAL 4 – 12"/100 – 300 mm



Series 717H High Pressure Check Valve
TYPICAL 2 – 3"/50 – 80 mm



- Can be installed in both horizontal or vertical positions
- Series 717 sizes from 2½–3"/65–80 mm are UL/ULC Listed
- See charts below for Approved and Listed service pressures
- Series 717 sizes from 2½–12"/65–300 mm
- Series 717H sizes from 2–3"/50–80 mm

| Size inches / mm | Approval/Listing Service Pressures | | | |
|---------------------|------------------------------------|------------------------|------------------------|---------------------|
| | Series 717 | | | |
| | cULus | FM | LPCB | VdS |
| 2 50 | n/a | n/a | n/a | n/a |
| 2½ 65 | up to 250 psi/1725 kPa | n/a | up to 365 psi/2517 kPa | n/a |
| 76.1 mm | up to 250 psi/1725 kPa | n/a | up to 365 psi/2517 kPa | up to 16bar/232 psi |
| 3 80 | up to 250 psi/1725 kPa | n/a | up to 365 psi/2517 kPa | up to 16bar/232 psi |
| 4 100 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 16bar/232 psi |
| 5 125 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | n/a |
| 139.7 mm | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 16bar/232 psi |
| 6 150 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 16bar/232 psi |
| 165.1 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | n/a |
| 8 200 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 348 psi/2400 kPa | up to 16bar/232 psi |
| 10 250 | up to 250 psi/1725 kPa | up to 250 psi/1725 kPa | up to 1725 kPa/250 psi | n/a |
| 12 300 | up to 250 psi/1725 kPa | up to 250 psi/1725 kPa | up to 1725 kPa/250 psi | n/a |

| Size inches / mm | Approval/Listing Service Pressures | | | |
|---------------------|------------------------------------|------------------------|------------------------|------------------------|
| | Series 717H | | | |
| | cULus | FM | LPCB | VdS |
| 2 50 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa |
| 2½ 65 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa |
| 76.1 mm | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa |
| 3 80 | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa | up to 365 psi/2517 kPa |
| 4 100 | n/a | n/a | n/a | n/a |
| 5 125 | n/a | n/a | n/a | n/a |
| 139.7 mm | n/a | n/a | n/a | n/a |
| 6 150 | n/a | n/a | n/a | n/a |
| 165.1 mm | n/a | n/a | n/a | n/a |
| 8 200 | n/a | n/a | n/a | n/a |
| 10 250 | n/a | n/a | n/a | n/a |
| 12 300 | n/a | n/a | n/a | n/a |

Valves and Accessories

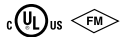
FireLock® Riser Check Valve

SERIES 717R
SERIES 717HR HIGH PRESSURE
SMALL DIAMETER

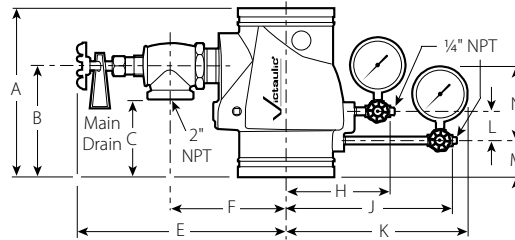
For Complete Information
Request Publication **10.09**



Series 717R



DIMENSIONS – SERIES 717R

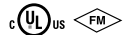


TYPICAL FOR ALL SIZES

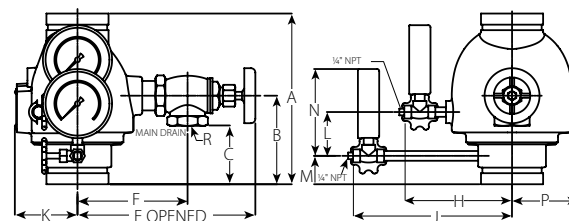
| Size | | SERIES 717R – Dimensions – Inches/millimeters | | | | | | | | | | | | | Approx. Wgt. Each |
|------------------------|----------------------------|---|-------------|-------------|------------|--------------|-------------|-------------|--------------|--------------|------------|------------|-------------|--------------|-------------------|
| Nominal Size Inches/mm | Actual Out. Dia. Inches/mm | A E to E | B | C | D | E | F | H | J | K | L | M | N | Lbs. kg | |
| 4 100 | 4.500 114.3 | 9.63 245 | 6.25 159 | 4.00 102 | 3.75 95 | 14.25 362 | 6.88 175 | 6.70 170 | 10.45 265 | 11.25 286 | 2.00 51 | 2.00 51 | 5.25 133 | 28.0 12.7 | |
| 5 125 | 5.563 141.3 | 10.50 267 | 6.50 165 | 4.25 108 | 3.75 95 | 14.75 375 | 7.38 188 | 7.37 187 | 11.87 302 | 12.75 324 | 2.15 55 | 1.88 48 | 5.25 133 | 35.0 15.9 | |
| 139.7mm | 5.500 139.7 | 10.50 267 | 6.50 165 | 4.25 108 | 3.75 95 | 14.75 375 | 7.38 188 | 7.37 187 | 11.87 302 | 12.75 324 | 2.15 55 | 1.88 48 | 5.25 133 | 35.0 15.9 | |
| 6 150 | 6.625 168.3 | 11.50 292 | 7.63 194 | 5.38 137 | 3.75 95 | 15.50 394 | 8.03 204 | 7.70 196 | 12.20 310 | 13.00 330 | 2.38 61 | 2.13 54 | 5.25 133 | 46.0 20.9 | |
| 165.1mm | 6.500 165.1 | 11.50 292 | 7.63 194 | 5.38 137 | 3.75 95 | 15.50 394 | 8.03 204 | 7.70 196 | 12.20 310 | 13.00 330 | 2.38 61 | 2.13 54 | 5.25 133 | 46.0 20.9 | |
| 8 200 | 8.625 219.1 | 14.00 356 | 8.25 210 | 6.00 152 | 3.75 95 | 16.38 416 | 9.00 229 | 8.85 225 | 12.75 324 | 13.50 343 | 2.15 55 | 2.88 73 | 5.25 133 | 72.0 32.7 | |



Series 717HR – shown with the
Victaulic Riser Check Kit



DIMENSIONS – SERIES 717HR



2"/60.3 mm – 3"/88.9 mm

| Size | | SERIES 717HR – Dimensions – Inches/millimeters | | | | | | | | | | | | | | Approx. Wgt. Each |
|------------------------|---------------|--|--------------|---|----------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|--------------|--------------|------------|-------------------|
| Nominal Size Inches/mm | | A | B | C | D | E (OPENED) | F | H | J | K | L | M | N | P | R | Lbs. kg |
| 2 60.3 | 8.66 219.8 | 4.40 111.9 | 3.16 80.1 | – | 8.50 215.9 | 4.74 120.4 | 5.57 141.5 | 8.50 216.0 | 3.23 82.0 | 2.10 53.3 | 1.58 40.3 | 4.90 124.3 | 3.23 82.0 | 3.47 88.1 | 3/4" NPT | 15.0 6.8 |
| 2 1/2 73 | 9.37 238.0 | 4.99 126.7 | 3.29 83.6 | – | 10.50 266.7 | 5.87 149.0 | 5.82 147.8 | 8.71 221.2 | 3.31 84.1 | 2.37 60.2 | 1.60 40.7 | 4.90 124.3 | 3.47 88.1 | 3.47 88.1 | 1 1/4" NPT | 19.5 8.8 |
| 76.1mm | 9.37 238.0 | 4.99 126.7 | 3.29 83.6 | – | 10.50 266.7 | 5.87 149.0 | 5.82 147.8 | 8.71 221.2 | 3.31 84.1 | 2.37 60.2 | 1.60 40.7 | 4.90 124.3 | 3.47 88.1 | 3.47 88.1 | 1 1/4" NPT | 19.5 8.8 |
| 3 88.9 | 9.62 244.3 | 4.99 126.7 | 3.31 84.2 | – | 10.78 273.8 | 6.20 157.6 | 6.07 154.2 | 8.96 227.6 | 3.53 89.7 | 2.47 62.7 | 1.60 40.6 | 4.90 124.3 | 3.72 94.5 | 3.72 94.5 | 1 1/4" NPT | 25.5 11.6 |

- Rubber encapsulated disc provides superior corrosion resistance
- Can be installed in both horizontal or vertical positions
- Series 717R and Series 717HR include a riser check kit

Valves and Accessories

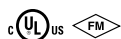
FireLock® Riser Check Valve

SERIES 717R
SERIES 717HR HIGH PRESSURE
SMALL DIAMETER

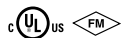
For Complete Information
Request Publication **10.09**



Series 717R



Series 717HR – shown with the
Victaulic Riser Check Kit



- Rubber encapsulated disc provides superior corrosion resistance
- Can be installed in both horizontal or vertical positions
- Series 717R and Series 717HR include a riser check kit

| Size inches / mm | Series 717HR (bare valve) | | Series 717R (bare valve) | |
|---------------------|---------------------------|-----------------------|--------------------------|----------------------|
| | cULus* | FM* | cULus* | FM* |
| 2 50 | up to 365psi/2517 kPa | up to 365psi/2517 kPa | n/a | n/a |
| 2½ 65 | up to 365psi/2517 kPa | up to 365psi/2517 kPa | n/a | n/a |
| 76.1 mm | up to 365psi/2517 kPa | up to 365psi/2517 kPa | n/a | n/a |
| 3 80 | up to 365psi/2517 kPa | up to 365psi/2517 kPa | n/a | n/a |
| 4 100 | n/a | n/a | up to 365psi/2517kPa | up to 365psi/2517kPa |
| 5 125 | n/a | n/a | up to 365psi/2517kPa | up to 365psi/2517kPa |
| 6 150 | n/a | n/a | up to 365psi/2517kPa | up to 365psi/2517kPa |
| 8 200 | n/a | n/a | up to 365psi/2517kPa | up to 365psi/2517kPa |

* Note: When supplied with the Victaulic Riser Check Kit, the Series 717HR can be used for services up to 300psi/2068kPa.

Valves and Accessories

FireLock® OS&Y and NRS Gate Valves

SERIES 771H

OS&Y Gate Valve (Groove x Groove)

SERIES 771F*

OS&Y Gate Valve (Groove x Flange)

SERIES 772H

NRS Gate Valve (Groove x Groove)

SERIES 772F*

NRS Gate Valve (Groove x Flange)

* Groove x Flange configurations not available in EMEA

For Complete Information Request Publication 10.92



SERIES 771H



SERIES 771F



SERIES 772H

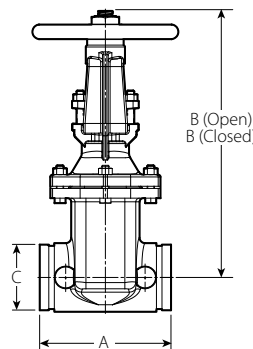


SERIES 772F

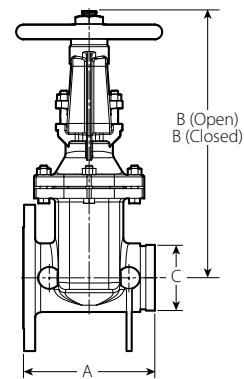
| Size | | Series 771H OS & Y Groove x Groove Dimensions | | | | | Series 771F OS & Y Groove x Flange Dimensions | | | | | Series 772H NRS Groove x Groove Dimensions | | | Series 772F NRS Groove x Flange Dimensions | | | Approximate Weight Each | | | |
|------------------------|-----------------------------------|---|--------------------|---------------|--------------|------------------------|---|---------------|--------------|------------------------|--------------------|--|------------------------|--------------------|--|---------------------|---------------------|-------------------------|---------------------|------|--------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A End to End Inches mm | B Height Inches mm | | C Inches mm | A End to End Inches mm | B Height Inches mm | | C Inches mm | A End to End Inches mm | B Height Inches mm | C Inches mm | A End to End Inches mm | B Height Inches mm | C Inches mm | Series 771H Lbs. kg | Series 772H Lbs. kg | Series 771F Lbs. kg | Series 772F Lbs. kg | | |
| | | | Open | Closed | | | Open | Closed | | | | | | | | | | | | Open | Closed |
| 2½ 65 | 2.875 73.0 | 7.52 191 | 12.76 324 | 14.88 378 | 2.88 73 | 7.52 191 | 12.76 324 | 14.88 378 | 2.88 73 | 7.52 191 | 10.00 254 | 2.88 73 | 7.52 191 | 10.00 254 | 2.88 73 | 30.6 13.9 | 29.3 13.3 | 37.8 17.2 | 36.5 16.6 | | |
| 3 80 | 3.500 88.9 | 8.00 203 | 19.02 483 | 22.00 559 | 3.50 89 | 8.00 203 | 19.02 483 | 22.00 559 | 3.50 89 | 8.00 203 | 13.86 352 | 3.50 89 | 8.00 203 | 13.86 352 | 3.50 89 | 73.0 33.2 | 62.9 28.6 | 78.8 35.8 | 68.6 31.2 | | |
| 4 100 | 4.500 114.3 | 9.00 229 | 19.49 495 | 23.50 597 | 4.50 114 | 9.00 229 | 19.49 495 | 23.50 597 | 4.50 114 | 9.00 229 | 14.33 364 | 4.50 114 | 9.00 229 | 14.33 364 | 4.50 114 | 78.8 35.8 | 68.6 31.2 | 89.5 40.7 | 80.1 36.4 | | |
| 6 150 | 6.625 168.3 | 10.50 267 | 26.14 664 | 32.13 816 | 6.63 168 | 10.50 267 | 26.14 664 | 32.13 816 | 6.63 168 | 10.50 267 | 18.27 464 | 6.63 168 | 10.50 267 | 18.27 464 | 6.63 168 | 146.5 66.6 | 116.8 53.1 | 156.0 70.9 | 126.3 57.4 | | |
| 165.1 mm | 6.500 165.1 | 10.50 267 | 26.14 664 | 32.13 816 | 6.50 165 | 10.50 267 | 26.14 664 | 32.13 816 | 6.50 165 | 10.50 267 | 18.27 464 | 6.50 165 | 10.50 267 | 18.27 464 | 6.50 165 | 146.5 66.6 | 116.8 53.1 | 156.0 70.9 | 126.3 57.4 | | |
| 8 200 | 8.625 219.1 | 11.50 292 | 32.13 816 | 40.12 1019 | 8.63 219 | 11.50 292 | 32.13 816 | 40.12 1019 | 8.63 219 | 11.50 292 | 21.69 551 | 8.63 219 | 11.50 292 | 21.69 551 | 8.63 219 | 238.5 108.4 | 187.2 85.1 | 248.8 113.1 | 197.6 89.8 | | |
| 10 250 | 10.750 273.0 | 13.00 330 | 40.12 1018 | 50.12 1273 | 10.75 273 | 13.00 330 | 40.12 1018 | 50.12 1273 | 10.75 273 | 13.00 330 | 25.63 651 | 10.75 273 | 13.00 330 | 25.63 651 | 10.75 273 | 344.7 156.7 | 297.7 135.3 | 358.4 162.9 | 311.3 141.5 | | |
| 12 300 | 12.750 323.9 | 14.02 356 | 46.89 1191 | 59.25 1505 | 12.75 324 | 14.02 356 | 46.89 1191 | 59.25 1505 | 12.75 324 | 14.02 356 | 29.13 740 | 12.75 324 | 14.02 356 | 29.13 740 | 12.75 324 | 489.5 222.5 | 394.9 179.5 | 536.8 244.0 | 442.2 201.0 | | |

SERIES 771H AND SERIES 771F

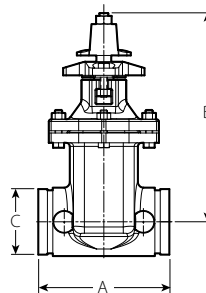
- Features three internal parts, making the valves easy to maintain
- Used when positive shut-off is required in a fire line and a quick visual indicator of open/closed position is required
- Pressure rated up to 250 psi/1725 kPa
- Sizes from 2½–12"/65–300 mm



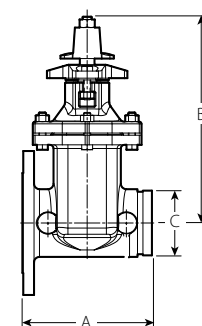
SERIES 771H OS&Y GATE VALVE



SERIES 771F OS&Y GATE VALVE



SERIES 772H NRS GATE VALE



SERIES 772F NRS GATE VALE

SERIES 772H AND SERIES 772F

- Features three internal parts, making the valves easy to maintain
- Used for shut-off service where the valve is operated remotely
- Pressure rated up to 250 psi/1725 kPa
- Sizes from 2½–12"/65–300 mm

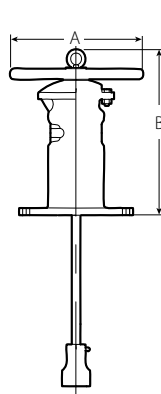
Valves and Accessories

FireLock® NRS Gate Valve Wall and Upright Post Indicators

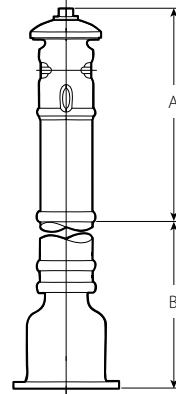
For Series 772H and Series 772F NRS Gate Valves

SERIES 773 – Wall Post Indicator
SERIES 774 – Upright Post Indicator

For Complete Information
 Request Publication **10.92**



SERIES 773 WALL POST INDICATOR



SERIES 774 UPRIGHT POST INDICATOR



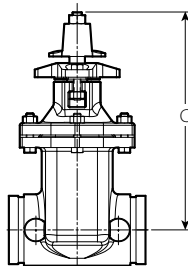
SERIES 773



SERIES 774



| Post Indicator | Dimensions – Inches/millimeters | | | Approx. Wgt. Each |
|--------------------|---------------------------------|--------------|---------------|-------------------|
| | A | B Minimum | B Maximum | Lbs. kg |
| Series 773 Wall | 14.00 356 | 18.50 470 | — | 90.0 40.8 |
| Series 774 Upright | 36.20 919 | 32.00 813 | 56.00 1422 | 250.0 113.4 |



NRS GATE VALVE CENTERLINE (SERIES 772H SHOWN)

POST INDICATOR – TYPICAL DIMENSIONS (FOR UPRIGHT & WALL)

| Valve Size | Dimensions – Inches/mm | | Approximate Number of Turns to Open |
|------------------------|--|--|-------------------------------------|
| Nominal Size Inches mm | C Centerline to Top of the Operating Nut | | |
| 2½ 65 | 10.00 254 | | 7 |
| 3 80 | 13.86 352 | | 8 |
| 4 100 | 14.33 364 | | 11 |
| 6 150 | 18.27 464 | | 13 |
| 165.1 mm | 18.27 464 | | 13 |
| 8 200 | 21.69 551 | | 16 |
| 10 250 | 25.63 651 | | 20 |
| 12 300 | 29.13 740 | | 24 |

IMPORTANT NOTES

Series 772H and Series 772F NRS gate valves must be equipped with a mounting plate if used with the Series 774 upright post indicator. Contact Victaulic for details. Series 773 and Series 774 post indicators are intended for use on NRS gate valves only.

Valves and Accessories

FireLock® Ball Valve

SERIES 728

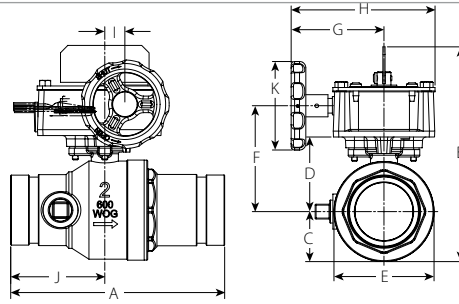
For Complete Information
Request Publication 10.17



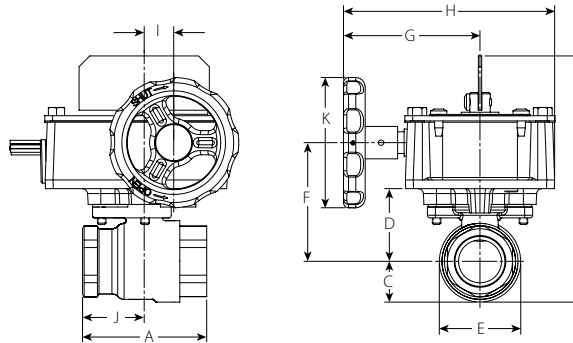
SERIES 728 GROOVED



SERIES 728 THREADED



GROOVED X GROOVED



THREADED X THREADED



- Standard port, end-entry valve
- Available with grooved or female threaded ends (NPT)
- Approved for indoor and outdoor use
- Pressure rated up to 365 psi/2517 kPa*
- Sizes from 1¼–2¾/32–50 mm for grooved sizes
- Sizes from 1–2¾/25–50 mm for threaded sizes

* VdS and LPCB Listed for services up to 20 Bar.

| Size | Dimensions – Inches/millimeters | | | | | | | | | | | Approx. Wgt. Each | |
|--------------------|---------------------------------|-------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|-------------------|---------|
| | Nominal in/mm | E to E A | Height B | C | D | E | F | G | H | I | J | K | Lbs. kg |
| 1/25 Thd. X Thd. | 2.84 72 | 4.74 120 | 0.91 23 | 1.67 42 | 1.82 46 | 2.40 61 | 3.15 80 | 4.86 123 | 0.68 17 | 1.42 36 | 3.00 76 | 5.1 2.3 | |
| 1¼/32 Thd. X Thd. | 3.31 84 | 4.95 126 | 1.10 28 | 1.88 48 | 2.20 56 | 2.61 66 | 3.15 80 | 4.86 123 | 0.68 17 | 1.65 42 | 3.00 76 | 5.8 2.6 | |
| 1½/40 Thd. X Thd. | 3.66 92 | 5.13 130 | 1.29 33 | 2.06 52 | 2.58 66 | 2.79 71 | 3.15 80 | 4.86 123 | 0.68 17 | 1.83 47 | 3.00 76 | 6.6 3.0 | |
| 2/50 Thd. X Thd. | 4.33 110 | 5.49 140 | 1.69 43 | 2.42 62 | 3.38 86 | 3.15 80 | 3.15 80 | 4.86 123 | 0.68 17 | 2.16 55 | 3.00 76 | 8.5 3.9 | |
| 1¼/32 Grv. X Grv. | 7.25 184 | 4.95 126 | 1.10 28 | 1.87 48 | 2.20 56 | 2.61 66 | 3.15 80 | 4.86 123 | 0.68 17 | 3.19 81 | 3.00 76 | 7.5 3.4 | |
| 1½/40 Grv. X Grv.* | 7.25 184 | 5.17 131 | 1.29 33 | 2.10 53 | 2.58 66 | 2.83 72 | 3.15 80 | 4.86 123 | 0.68 17 | 3.19 81 | 3.00 76 | 8.5 3.9 | |
| 2/50 Grv. X Grv.* | 7.25 184 | 5.47 139 | 1.69 43 | 2.40 61 | 3.38 86 | 3.13 80 | 3.15 80 | 4.86 123 | 0.68 17 | 3.19 81 | 3.00 76 | 10.5 4.8 | |

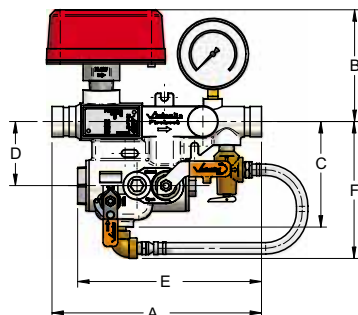
* 1½ and 2¾/40 and 50mm sizes feature a ½"/12mm tap (Groove by Groove only).

Valves and Accessories

FireLock® Residential Zone Control Riser Module

SERIES 247

For Complete Information
Request Publication 10.97



1 – 2 7/25 – 50 mm Nominal Sizes

(Valves shown above in the “test” position.
Shown with Pressure Relief Valve Kit Installed)

- Compact design is easy to install in zoned wet sprinkler systems or on system risers
- Includes the module body integrated with a shut off valve, test and drain valve combination with different orifice sizes, a UL Listed and FM Approved flow switch, and a pressure gauge
- Available with grooved ends for easy installation in the horizontal or vertical up-flow positions
- Pressure rated up to 300 psi/ 2065 kPa for UL and ULC and 365psi/2517kPa for FM
- Optional pressure relief valve kit is available. Pressure relief configuration is FM Approved and UL and ULC Listed for working pressures up to 175psi/1200 kPa.
- Sizes from 1 – 2 7/25 – 50 mm

| Module Body Size | | | Dimensions – Inches/mm | | | | | | Aprx. Weight Each |
|----------------------------|-----------------------------------|----------------------|------------------------|---------------|---------------|--------------|----------------|---------------|-------------------|
| Nominal Diameter Inches/mm | Actual Outside Diameter Inches/mm | Drain Size Inches/mm | A | B | C | D | E (Groove) | F | Lbs./kgs |
| 1 25 | 1.315 33.4 | 1 33.4 | 11.45 290.8 | 6.00 152.4 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 15.2 6.9 |
| 1 1/4 32 | 1.660 42.2 | 1 33.4 | 11.45 290.8 | 6.00 152.4 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 15.2 6.9 |
| 1 1/2 40 | 1.900 48.3 | 1 33.4 | 11.45 290.8 | 6.13 155.7 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 15.5 7.0 |
| 2 50 | 2.375 60.3 | 1 33.4 | 11.45 290.8 | 6.43 163.3 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 19.9 9.0 |

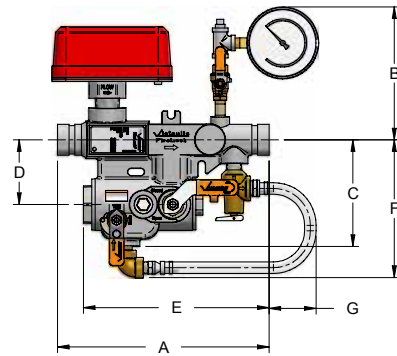
| Nominal Size inches | Orifices | |
|---------------------|------------------------------------|------------------------------------|
| | UL | ULC |
| 1 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 |
| 1.25 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 |
| 1.5 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 | 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 | K2.8, K3.0, K3.5, K4.2, K4.9, K5.6 |

Valves and Accessories

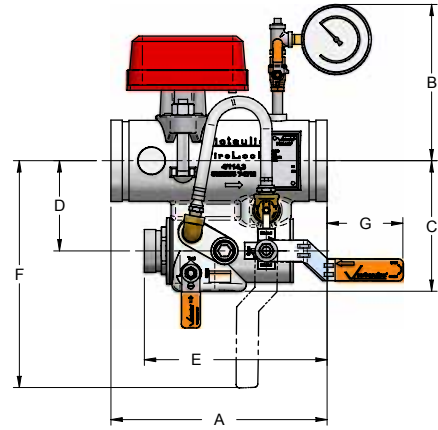
FireLock® Commercial Zone Control Riser Module

SERIES 747M

For Complete Information
Request Publication 10.96



1 1/4 - 2"/32 - 50mm Nominal Sizes



2 1/2 - 6"/65.0 - 150mm Nominal Sizes

(Valves shown above in the "test" position. Shown with optional Pressure Relief Valve Kit installed)



- Compact design is easy to install in zoned wet sprinkler systems or on system risers
- Includes the module body integrated with a shut off valve, test and drain valve combination with different orifice sizes, a UL Listed and FM Approved flow switch, and a pressure gauge
- Available with grooved ends for easy installation in the horizontal or vertical up-flow positions
- Pressure rated up to 365 psi/2517 kPa for UL, ULC and FM
- Optional pressure relief valve kit is available. Pressure relief configuration is FM Approved and UL and ULC Listed for working pressures up to 175 psi/1200 kPa.
- Sizes from 1 1/4 - 6"/32 - 150mm

| Module Body Size | | | Dimensions - Inches/mm | | | | | | | Aprx. Weight Each |
|----------------------------|-----------------------------------|----------------------|------------------------|---------------|---------------|--------------|----------------|---------------|---------------|-------------------|
| Nominal Diameter Inches/mm | Actual Outside Diameter Inches/mm | Drain Size Inches/mm | A | B | C | D | E (Groove) | F | G | Lbs./kgs |
| 1 1/4 32 | 1.660 42.2 | 1 33.4 | 11.45 290.8 | 7.20 182.9 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 2.54 64.5 | 15.2 6.9 |
| 1 1/2 40 | 1.900 48.3 | 1 33.4 | 11.45 290.8 | 7.32 185.9 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 2.54 64.5 | 15.5 7.0 |
| 2 50 | 2.375 60.3 | 1 33.4 | 11.45 290.8 | 7.55 191.8 | 5.77 146.5 | 3.50 88.9 | 10.05 255.3 | 7.48 190.0 | 2.54 64.5 | 19.9 9.0 |
| 2 1/2 65 | 2.875 73.0 | 1 1/4 42 | 12.00 305 | 8.41 214 | 6.18 157 | 4.25 108 | 9.76 248 | 11.87 302 | 4.25 108 | 22.7 10.3 |
| 3 80 | 3.500 88.9 | 1 1/4 42 | 12.00 305 | 9.42 239 | 6.18 157 | 4.25 108 | 9.76 248 | 11.87 302 | 4.25 108 | 23.2 10.6 |
| 4 100 | 4.500 114.3 | 2 60 | 12.00 305 | 9.90 252 | 7.25 184 | 5.00 127 | 10.15 258 | 12.62 321 | 4.21 107 | 30.3 13.8 |
| 6 150 | 6.625 168.3 | 2 60 | 12.00 305 | 10.85 276 | 8.31 211 | 6.00 154 | 10.15 258 | 13.62 346 | 4.24 107.7 | 36.7 16.7 |

ORIFICES:

| Nominal Size inches | Orifices |
|---------------------|----------------------------------|
| 1.25 | K5.6 |
| 1.5 | K5.6 |
| 2 | K5.6 |
| 2.5 | K5.6 K6.9 K8.0 K11.2 |
| 3 | K5.6 K6.9 K8.0 K11.2 |
| 4 | K5.6 K6.9 K8.0 K11.2 K14.0 K16.8 |
| 6 | K5.6 K6.9 K8.0 K11.2 K14.0 K16.8 |

Valves and Accessories

TestMaster™ II Alarm Test Module

SERIES 720

For Complete Information
Request Publication 10.22



SERIES 720 GROOVED ENDS

SERIES 720 THREADED ENDS

SERIES 720 WITH PRESSURE RELIEF VALVE



- Incorporates the test function and rapid drain function for wet sprinkler systems into a single unit
- Constructed of corrosion resistant bronze
- Available with either NPT, BSPT female threaded ends or with grooved ends
- K5.6/8.1 S.I. orifice is factory fitted (optional K8.0/11.5 S.I. orifice available upon request)
- Can be supplied with a pressure gauge port tapping
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1¼–2"32–50 mm for grooved end
- Sizes from 1–2"25–50 mm for threaded end

| Size | | Dimensions – Inches/millimeters | | | | | | | | | | Approx. Wgt. Each |
|------------------------------|---|---------------------------------|---|---|---|---|---|---|---|---|---|-------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A | B | C | D | E | F | G | H | I | J | Lbs. (kg) |

SERIES 720 GROOVED ENDS

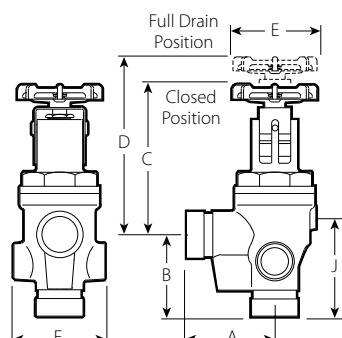
| | | | | | | | | | | | | |
|----------|---------------|------------|------------|-------------|-------------|------------|------------|---|---|---|-------------|------------|
| 1¼ 32 | 1.660 42.4 | 3.15 80 | 2.90 74 | 5.47 139 | 6.43 163 | 2.68 68 | 3.25 83 | — | — | — | 3.50 89 | 6.7 3.0 |
| 1½ 40 | 1.900 48.3 | 3.65 93 | 3.06 78 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | — | — | — | 4.20 107 | 8.9 4.0 |
| 2 50 | 2.375 60.3 | 3.65 93 | 3.06 78 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | — | — | — | 4.20 107 | 9.3 4.2 |

SERIES 720 THREADED ENDS

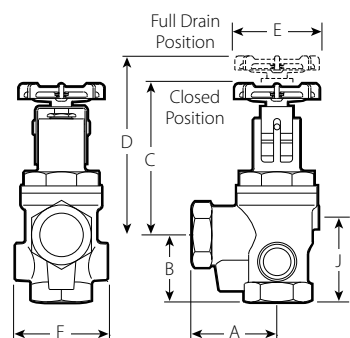
| | | | | | | | | | | | | |
|----------|---------------|------------|------------|-------------|-------------|------------|------------|---|---|---|------------|-------------|
| 1 25 | 1.315 33.7 | 3.00 76 | 2.38 60 | 5.47 139 | 6.43 163 | 2.68 68 | 3.25 83 | — | — | — | 3.00 76 | 7.3 3.3 |
| 1¼ 32 | 1.660 42.4 | 3.00 76 | 2.38 60 | 5.47 139 | 6.43 163 | 2.68 68 | 3.25 83 | — | — | — | 3.00 76 | 7.0 3.2 |
| 1½ 40 | 1.900 48.3 | 3.63 92 | 2.38 60 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | — | — | — | 3.50 89 | 10.5 4.8 |
| 2 50 | 2.375 60.3 | 3.63 92 | 2.38 60 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | — | — | — | 3.50 89 | 10.0 4.6 |

SERIES 720 WITH PRESSURE RELIEF VALVE

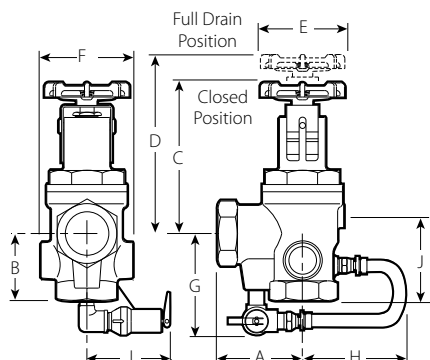
| | | | | | | | | | | | | |
|----------|---------------|------------|------------|-------------|-------------|------------|------------|----------------|----------------|---------------|------------|-------------|
| 1 25 | 1.315 33.7 | 3.00 76 | 2.38 60 | 5.47 139 | 6.43 163 | 2.68 68 | 3.25 83 | 3.90 99.06 | 4.95 125.73 | 4.00 101.6 | 3.00 76 | 8.3 3.8 |
| 1¼ 32 | 1.660 42.4 | 3.00 76 | 2.38 60 | 5.47 139 | 6.43 163 | 2.68 68 | 3.25 83 | 3.90 99.06 | 4.95 125.73 | 4.00 101.6 | 3.00 76 | 8.0 3.8 |
| 1½ 40 | 1.900 48.3 | 3.63 92 | 2.38 60 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | 4.09 103.89 | 4.95 125.73 | 4.00 101.6 | 3.50 89 | 11.5 5.2 |
| 2 50 | 2.375 60.3 | 3.63 92 | 2.38 60 | 5.47 139 | 6.51 165 | 2.68 68 | 3.75 95 | 4.09 103.89 | 4.95 125.73 | 4.00 101.6 | 3.50 89 | 11.0 5.0 |



SERIES 720 GROOVED ENDS



SERIES 720 THREADED ENDS



SERIES 720 WITH PRESSURE RELIEF VALVE



Valves and Accessories

Fire Pump Test Meter

SERIES 735

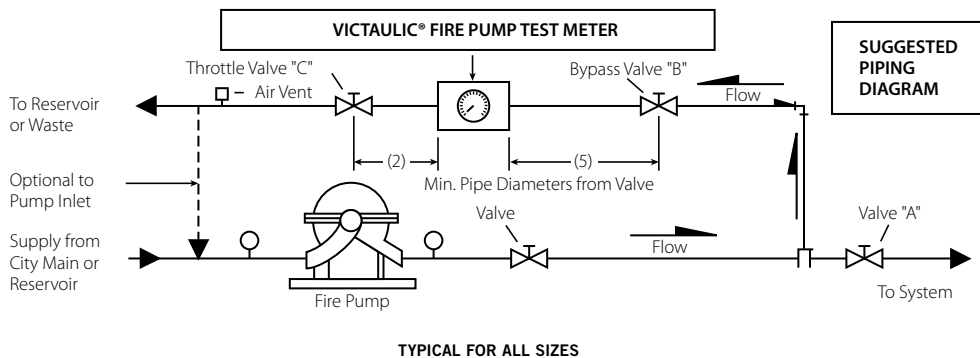
For Complete Information
Request Publication 10.11



- Provides accurate measurements of pump performance
- Model "L" Pressure rated up to 175 psi/1200 kPa
- Model "S" Pressure rated up to 500 psi/3450 kPa
- Sizes from 2½–12"/65–300 mm

| Size | | Nominal Flow Rate | Meter Range * Minimum – Maximum | | Dimensions | Approximate Weight Each | |
|------------------------------|-------------------------------------|----------------------------|--|--|----------------------------|----------------------------|----------------------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | GPM m ³ /hr. | Model "L" GPM m ³ /hr. | Model "S" GPM m ³ /hr. | End to End Inches mm | Model "L" Lbs. kg | Model "S" Lbs. kg |
| 2½ 65 | 2.875 73.0 | 100 23 | 40 – 200 9 – 45 | 60 – 200 14 – 45 | 4.00 102 | 14.0 6.4 | 9.0 4.1 |
| 3 80 | 3.500 88.9 | 200 45 | 100 – 400 23 – 91 | 140 – 400 32 – 91 | 4.25 108 | 15.0 6.8 | 10.0 4.5 |
| 4 100 | 4.500 114.3 | 250 57 | 100 – 500 23 – 114 | 160 – 500 36 – 114 | 3.75 95 | 17.0 7.7 | 12.0 5.4 |
| 4 100 | 4.500 114.3 | 300 68 | 100 – 600 23 – 136 | 190 – 600 43 – 136 | 3.75 95 | 17.0 7.7 | 12.0 5.4 |
| 4 100 | 4.500 114.3 | 450 102 | 200 – 900 45 – 204 | 300 – 900 68 – 204 | 3.75 95 | 17.0 7.7 | 12.0 5.4 |
| 5 125 | 5.563 141.3 | 500 114 | 200 – 1000 45 – 227 | 300 – 1000 68 – 227 | 5.00 127 | 18.0 8.2 | 13.0 5.9 |
| 6 150 | 6.625 168.3 | 750 170 | 300 – 1500 68 – 341 | 450 – 1500 102 – 341 | 6.00 152 | 20.0 9.1 | 15.0 6.8 |
| 6 150 | 6.625 168.3 | 1000 227 | 400 – 2000 91 – 454 | 600 – 2000 136 – 454 | 6.00 152 | 20.0 9.1 | 15.0 6.8 |
| 6 150 | 6.625 168.3 | 1250 284 | 500 – 2500 114 – 568 | 800 – 2500 182 – 568 | 6.00 152 | 20.0 9.1 | 15.0 6.8 |
| 8 200 | 8.625 219.1 | 1500 341 | 600 – 3000 341 – 681 | 900 – 3000 204 – 681 | 7.00 178 | 27.0 12.3 | 22.0 10.0 |
| 8 200 | 8.625 219.1 | 2000 454 | 1000 – 4000 227 – 908 | 1400 – 4000 318 – 908 | 7.00 178 | 27.0 12.3 | 22.0 10.0 |
| 8 200 | 8.625 219.1 | 2500 568 | 1000 – 5000 227 – 1135 | 1600 – 5000 363 – 1135 | 7.00 178 | 27.0 12.3 | 22.0 10.0 |
| 8 200 | 8.625 219.1 | 3000 681 | 1000 – 6000 227 – 1363 | 1900 – 6000 431 – 1363 | 7.00 178 | 27.0 12.3 | 22.0 10.0 |
| 10 250 | 10.750 273.0 | 3500 795 | 2000 – 7000 454 – 1590 | 2500 – 7000 568 – 1590 | 8.00 203 | 38.0 17.2 | 33.0 15.0 |
| 10 250 | 10.750 273.0 | 4000 908 | 2000 – 8000 454 – 1817 | 2500 – 8000 568 – 1817 | 8.00 203 | 38.0 17.2 | 33.0 15.0 |
| 10 250 | 10.750 273.0 | 4500 1022 | 2000 – 9000 454 – 2045 | 3000 – 9000 681 – 2045 | 8.00 203 | 38.0 17.2 | 33.0 15.0 |
| 12 300 | 12.750 323.9 | 5000 1135 | 2000 – 10000 454 – 2272 | 3000 – 10000 681 – 2272 | 12.00 305 | 71.0 32.2 | 66.0 29.9 |

* Specify Model "L" for 6"/152.4 mm dial; Model "S" for 4½"/114.3 mm dial.



Valves and Accessories

FireLock® Automatic Devices and Accessories

Victaulic continues to push the envelope of product development. FireLock NXT® devices offer another leap forward in valve design and operation. Featuring a lower operating pressure and ultra-fast trip time, due to the elimination of the air-to-water differential, FireLock NXT devices deliver greater operational dependability and are easier to install, service and maintain. In addition, the compact trim and diaphragm design reduces the valve's center-to-back take out distance up to a full 7"/178mm when compared with competitive valves.



FireLock NXT Dry System Check Valve†
SERIES 768, PG. 8-3



FireLock NXT Deluge System Check Valve†
SERIES 769, PG. 8-4



FireLock NXT Preaction System Check Valve†
SERIES 769, PGS. 8-5-8-7



FireLock NXT Preaction System with AutoConvert Trim Assembly†
SERIES 769, PGS. 8-5-8-7



FireLock NXT Alternate Wet/Dry System Check Valve†
 (available in Europe only)
SERIES 764, PG. 8-8



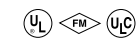
FireLock Alarm Check Valve
SERIES 751, PG. 8-10



FireLock European Alarm Check Valve Station
SERIES 751, PG. 8-11

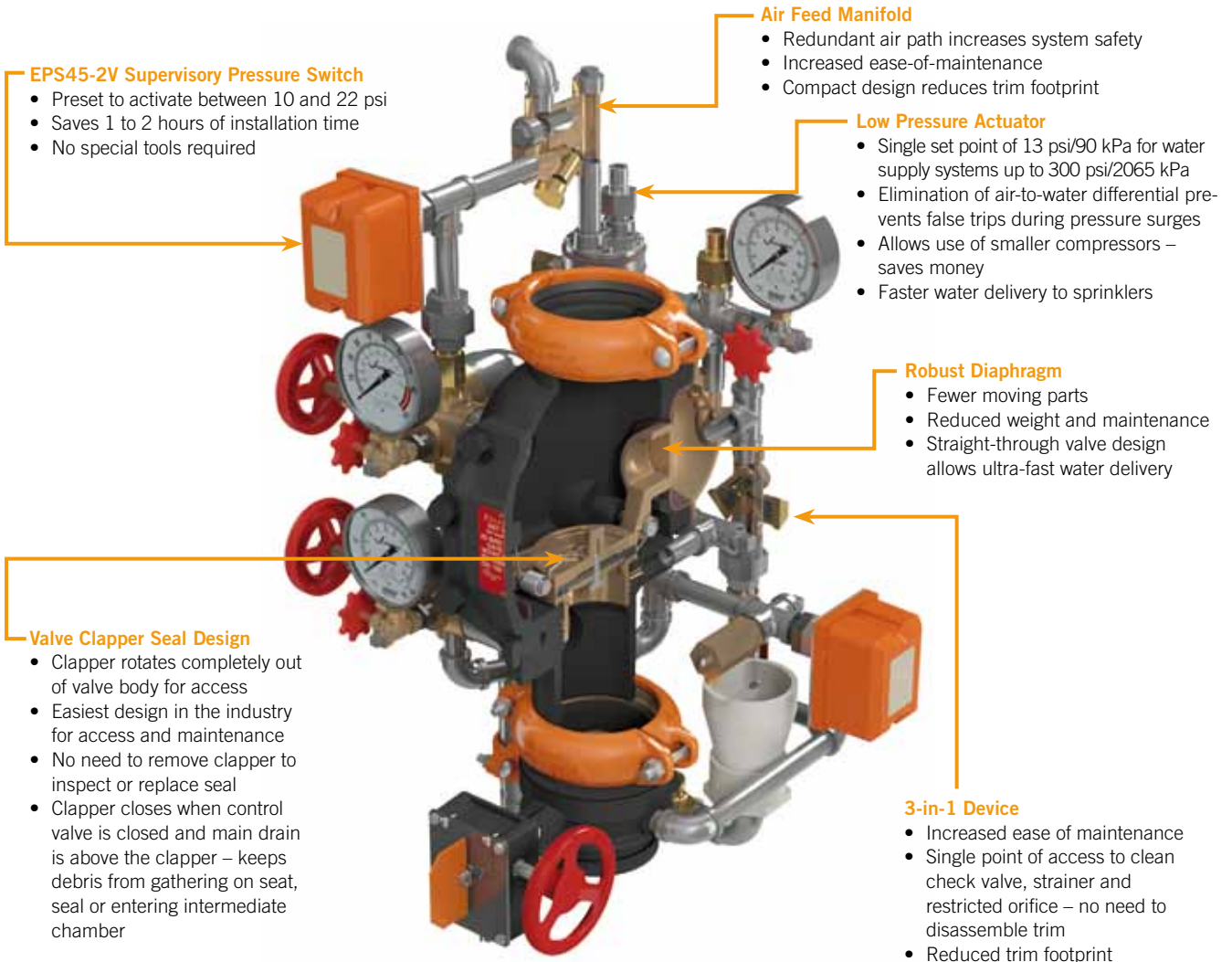


FireLock Fire-Pac
SERIES 745, PG. 8-12-8-13



FireLock® Automatic Devices and Accessories

The innovative design of the new FireLock NXT® line went beyond the valve itself. To reduce the footprint required for the trim to the bare minimum, trim components were redesigned to optimize performance and save space.



Accessories

STANDARD, PG. 8-13

Series 7C7 Compressor Package
 Series 776 Low Pressure Actuator
 Series 753-E Solenoid Actuator
 Series 798 Double Pneumatic Actuator
 Series 767 Electric/Pneumatic Actuator
 Series 748 Ball Check Valve
 Series 729 Ball Drip Assembly
 Series 755 Manual Pull Station
 Series 749 Auto Drain Assembly

OPTIONAL, PG. 8-13

Series 752 Retard Chamber
 Series 760 Water Motor Alarm
 Drain Connection Kit
 Series 746 Dry Accelerator
 Series 746-LPA Dry Accelerator
 Series 757/757P Air Maintenance Trim Assembly
 Series 75-D Water Column Component Drain Kit
 Series 75-B Supplemental Alarm Kit
 AutoConvert Preaction Trim Assembly

PRODUCTS

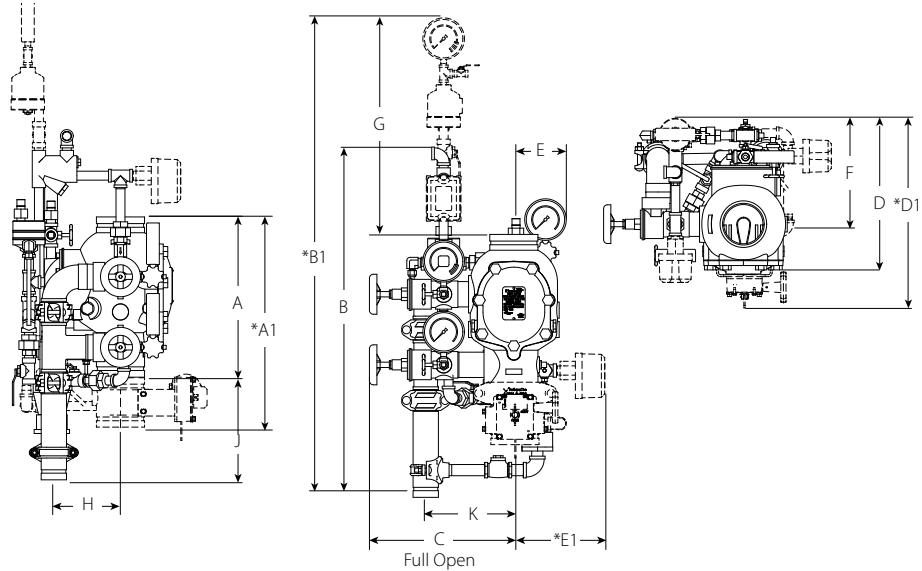
3-1 Couplings
 4-1 Fittings
 5-1 AquaFlex® Sprinkler Fittings
 6-1 Hole Cut Piping System
 7-1 Valves and Accessories
8-1 FireLock Automatic Devices and Accessories
 9-1 FireLock Automatic Sprinklers
 10-1 Specialty Products
 11-1 Pipe Preparation Tools
 12-1 Product Index

FireLock® Automatic Devices and Accessories

FireLock NXT® Dry System Check Valve

SERIES 768

For Complete Information Request Publication 30.80



THE 4"/100mm UL LISTED, FM APPROVED CONFIGURATION IS SHOWN ABOVE
 1½–2"/40–50mm CONFIGURATIONS CONTAIN ¾"/20mm DRAIN VALVES.
 2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
 4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



| Size | | Dimensions – Inches/mm | | | | | | | | | | | | | | Approximate Weight Each | |
|------------------------|-----------------------------------|------------------------|-----------------|--------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|----------------|-----------------|-----------------|-------------------------|-------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A | A1 * | B | B1 * | C | D | D1 * | E | E1 * | F | G | H | J | K | Without Trim Lbs. kg | With Trim Lbs. kg |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.43 417.32 | 27.25 692 | 39.50 1003 | 13.75 349 | 16.00 406 | — | 5.25 133 | 8.50 215 | 9.50 241 | 21.25 539 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.43 417.32 | 27.25 692 | 39.50 1003 | 13.75 349 | 16.00 406 | — | 5.25 133 | 8.50 215 | 9.50 241 | 21.25 539 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 17.0 7.7 | 43.3 19.6 |
| 2½ 65 | 2.875 73.0 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 33.50 850 | 45.50 1155 | 15.00 381 | 15.75 400 | 20.50 520 | 5.25 133 | 9.00 228 | 10.75 273 | 21.00 533 | 6.25 158.75 | 9.62 244.34 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 22.00 558.80 | 34.00 863 | 46.00 1168 | 15.50 393 | 17.00 431 | 22.00 558 | 5.25 133 | 8.50 215 | 11.50 292 | 20.50 520 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 34.00 863 | 46.00 1168 | 15.50 393 | 17.00 431 | 22.00 558 | 5.25 133 | 8.50 215 | 11.50 292 | 20.50 520 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 22.94 582.67 | 33.50 850 | 45.50 1155 | 16.75 425 | 20.00 508 | 25.25 641 | 6.25 158 | 8.75 222 | 12.75 323 | 18.50 469 | 6.05 153.67 | 9.40 238.76 | 10.21 259.33 | 122.0 55.3 | 158.0 71.6 |

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13psi/90kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from dry-pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg.8-13
- When the system air pressure is released, the decreasing air pressure activates the low pressure actuator and releases the latch mechanism, which allows the clapper to open
- For available accessories and actuators, see pg.8-15
- Pressure rated up to 300psi/2065kPa
- Sizes from 1½–8"/40–200mm

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

IMPORTANT NOTES:

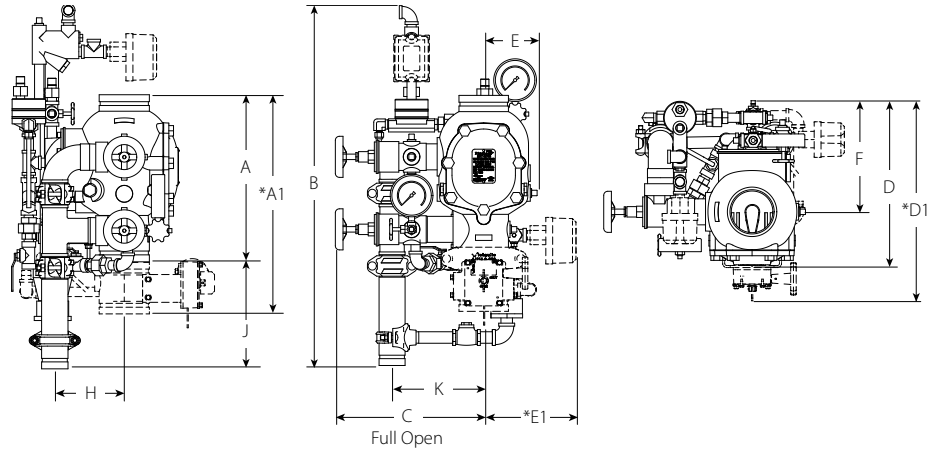
The "A" dimension coupling is not shown in order to clarify dimensional callouts. Components shown as dotted lines denote optional equipment. Optional drain connection kit is shown for reference and takeout dimensions. The drawings shown above reflect the dry valve trim with Series 776 low pressure actuator.

FireLock® Automatic Devices and Accessories

FireLock NXT® Deluge System Check Valve

SERIES 769

For Complete Information
Request Publication 30.81



THE 4"/100mm DRY PILOT CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50mm CONFIGURATIONS CONTAIN ¾"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.

| Size | | Dimensions – Inches/mm | | | | | | | | | | | | | Approximate Weight Each | |
|------------------------------|---|------------------------|-----------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|----------------|-----------------|-----------------|----------------------------|-------------------------|--|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A | A1 * | B | C | D | D1 * | E | E1 * | F | H | J | K | Without Trim Lbs. kg | With Trim Lbs. kg | |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.43 417.32 | 28.50 723 | 13.75 349 | 12.50 317 | 15.00 381 | 5.25 133 | 8.50 215 | 9.25 234 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 | |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.43 417.32 | 28.50 723 | 13.75 349 | 12.50 317 | 15.00 381 | 5.25 133 | 8.50 215 | 9.25 234 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 17.0 7.7 | 43.3 19.6 | |
| 2½ † 65 | 2.875 73.0 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 13.50 342 | 13.50 342 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 | |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 13.50 342 | 13.50 342 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 | |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 13.50 342 | 13.50 342 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 | |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 33.50 850 | 15.00 381 | 15.75 400 | 20.50 520 | 5.50 139 | 9.00 228 | 10.75 273 | 6.25 158.75 | 9.62 244.34 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 | |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 22.00 558.80 | 33.75 857 | 15.50 393 | 16.75 425 | 22.00 558 | 6.00 152 | 8.50 215 | 11.25 285 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 | |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 33.75 857 | 15.50 393 | 16.75 425 | 22.00 558 | 6.00 152 | 8.50 215 | 11.25 285 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 | |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 22.94 582.67 | 33.50 850 | 16.75 425 | 19.75 501 | 25.25 641 | 7.00 177 | 8.75 222 | 12.75 323 | 6.05 153.67 | 9.40 238.76 | 10.21 259.33 | 122.0 55.3 | 158.0 71.6 | |

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water supplies from deluge pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300psi/2065kPa
- Sizes from 1½–8"/40–200mm

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

† European trim configurations are not available in 2½"/65 mm pipe sizes.

IMPORTANT NOTES:

The drawings shown above reflect the dry pilot trim with Series 776 low pressure actuator.

Available wet pilot or dry pilot with the Series 776 low pressure actuator.

In addition, these dimensions can be applied to hydraulic (wet pilot) release and electric release trim.

Components shown as dotted lines denote optional equipment.

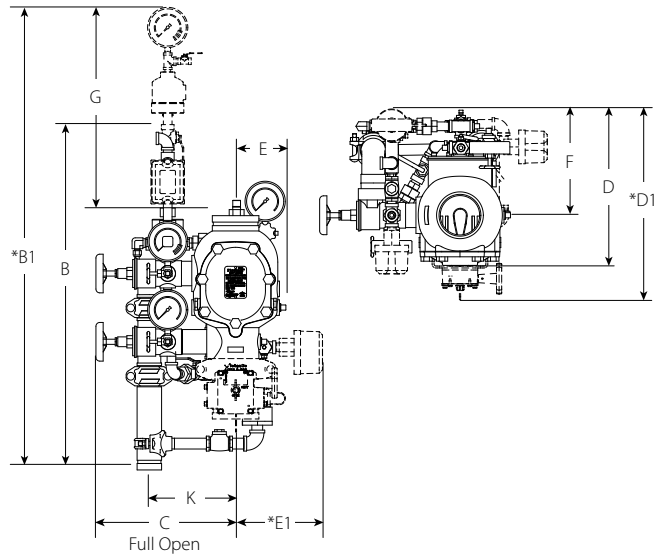
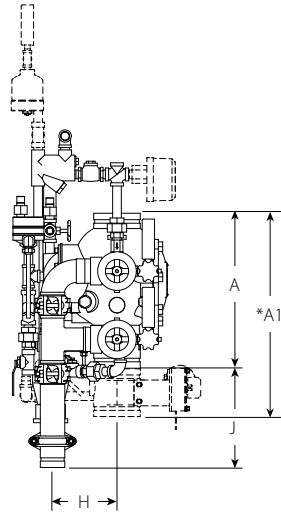
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

SERIES 769 WITH SERIES 776 LOW-PRESSURE ACTUATORS

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication 30.84. For Systems Approved by LPCB, Request Publication 30.85



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE
 1½–2"/40–50mm CONFIGURATIONS CONTAIN ¼"/20mm DRAIN VALVES.
 2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
 4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



| Size | | Dimensions – Inches/mm | | | | | | | | | | | | | | Approximate Weight Each | |
|---------------------|--------------------------------|------------------------|-----------------|--------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|----------------|-----------------|-----------------|-------------------------|-------------------|
| Nominal Size Inches | Actual Outside Diameter Inches | A | A1 * | B | B1 * | C | D | D1 * | E | E1 * | F | G | H | J | K | Without Trim Lbs. kg | With Trim Lbs. kg |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.43 417.32 | 28.25 717 | 40.50 1028 | 13.75 349 | 16.00 406 | — | 5.25 133 | 8.50 215 | 9.50 241 | 22.25 565 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.43 417.32 | 28.25 717 | 40.50 1028 | 13.75 349 | 16.00 406 | — | 5.25 133 | 8.50 215 | 9.50 241 | 22.25 565 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 17.0 7.7 | 43.3 19.6 |
| 2½ 65 | 2.875 73.0 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.50 419.10 | 32.25 819 | 44.25 1123 | 13.50 342 | 16.00 406 | 17.50 444 | 5.25 133 | 9.00 228 | 9.25 234 | 21.25 539 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 33.25 844 | 45.50 1155 | 15.00 381 | 15.75 400 | 20.50 520 | 5.50 139 | 9.00 228 | 10.75 273 | 20.75 527 | 6.25 158.75 | 9.62 244.34 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 22.00 558.80 | 33.50 850 | 45.75 1162 | 15.50 393 | 17.00 431 | 22.00 558 | 6.00 152 | 8.50 215 | 11.50 292 | 20.00 508 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 33.50 850 | 45.75 1162 | 15.50 393 | 17.00 431 | 22.00 558 | 6.00 152 | 8.50 215 | 11.50 292 | 20.00 508 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 22.94 582.67 | 33.50 850 | 45.50 1155 | 16.75 425 | 20.00 508 | 25.25 641 | 7.00 177 | 8.75 222 | 12.75 323 | 18.50 469 | 6.05 153.67 | 9.40 238.76 | 10.21 259.33 | 122.0 55.3 | 158.0 71.6 |

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"/40–200 mm

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

IMPORTANT NOTES:

The drawings shown above reflect single-interlocked, pneumatic release trim with Series 776 Low-Pressure Actuator.

Available in the following trim configurations:

- Non-interlock
 - Pneumatic release
 - Electric release
- Single-interlock
 - Pneumatic release
 - Electric release
- Double-interlock
 - Pneumatic/electric release
 - Electric/pneumatic/electric release
 - Pneumatic/pneumatic release

Components shown as dotted lines denote optional equipment.

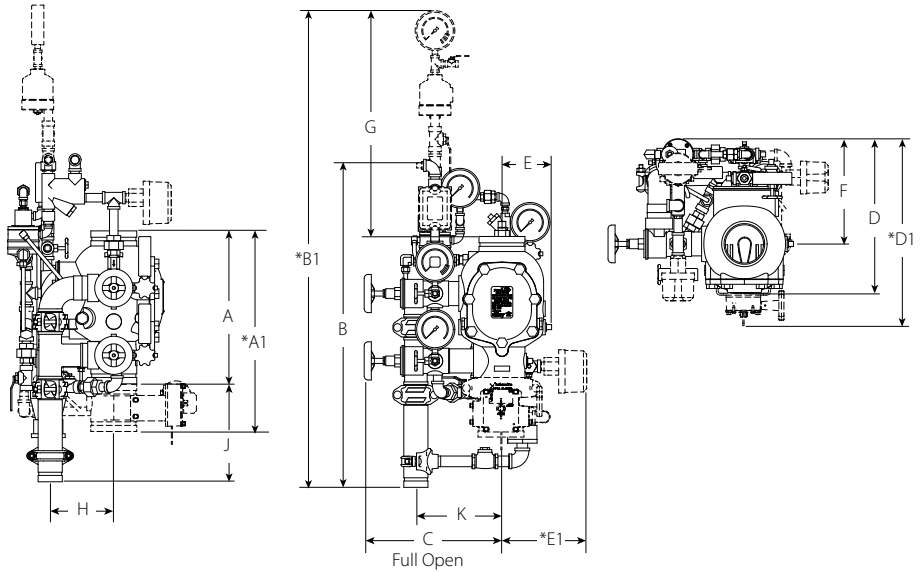
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

SERIES 769 WITH SERIES 767 ELECTRIC/PNEUMATIC ACTUATORS

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication **30.84**.
For Systems Approved by LPCB, Request Publication **30.85**



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50mm CONFIGURATIONS CONTAIN ¾"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.

| Size | Dimensions – Inches/mm | | | | | | | | | | | | | | | Approximate Weight Each | |
|----------|------------------------|-----------------------------------|-----------------|--------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|----------------|-----------------|-----------------|-------------------------|----------------------|
| | Nominal Size Inches/mm | Actual Outside Diameter Inches/mm | A | A1 * | B | B1 * | C | D | D1 * | E | E1 * | F | G | H | J | K | Without Trim Lbs./kg |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.43 417.32 | 28.00 711 | 42.75 1085 | 13.75 349 | 16.00 406 | 15.00 381 | 5.25 133 | 8.50 215 | 9.50 241 | 24.50 622 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.43 417.32 | 28.00 711 | 42.75 1085 | 13.75 349 | 16.00 406 | 15.00 381 | 5.25 133 | 8.50 215 | 9.50 241 | 24.50 622 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 17.0 7.7 | 43.3 19.6 |
| 2½ 65 | 2.875 73.0 | 12.61 320.29 | 16.50 419.10 | 31.25 793 | 45.75 1162 | 13.50 342 | 16.25 412 | 18.00 457 | 5.25 133 | 9.00 228 | 9.75 247 | 22.75 577 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 16.50 419.10 | 31.25 793 | 45.75 1162 | 13.50 342 | 16.25 412 | 18.00 457 | 5.25 133 | 9.00 228 | 9.75 247 | 22.75 577 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.50 419.10 | 31.25 793 | 45.75 1162 | 13.50 342 | 16.25 412 | 18.00 457 | 5.25 133 | 9.00 228 | 9.75 247 | 22.75 577 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 32.75 831 | 47.50 1206 | 15.00 381 | 16.25 412 | 20.75 527 | 5.50 139 | 9.00 228 | 11.25 285 | 22.75 577 | 6.25 158.75 | 9.62 244.34 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 22.00 558.80 | 32.75 831 | 47.50 1206 | 15.50 393 | 17.25 438 | 22.25 565 | 6.00 152 | 8.50 215 | 11.50 292 | 21.75 552 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 32.75 831 | 47.50 1206 | 15.50 393 | 17.25 438 | 22.25 565 | 6.00 152 | 8.50 215 | 11.50 292 | 21.75 552 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 22.94 582.67 | 32.50 825 | 47.00 1193 | 16.75 425 | 20.00 508 | 25.50 647 | 7.00 177 | 8.75 222 | 13.00 330 | 20.25 514 | 6.05 153.67 | 9.40 238.76 | 10.21 259.33 | 122.0 55.3 | 158.0 71.6 |

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Full trim packages for non-interlocked, single-interlocked and double-interlocked systems are available
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300psi/2065 kPa
- Sizes from 1½–8"/40–200mm

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

IMPORTANT NOTES:

Components shown as dotted lines denote optional equipment. Optional drain connection kit is shown for reference and takeout dimensions.

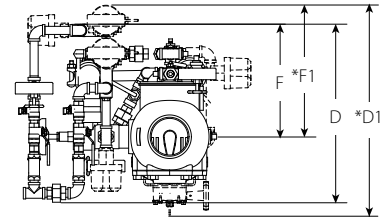
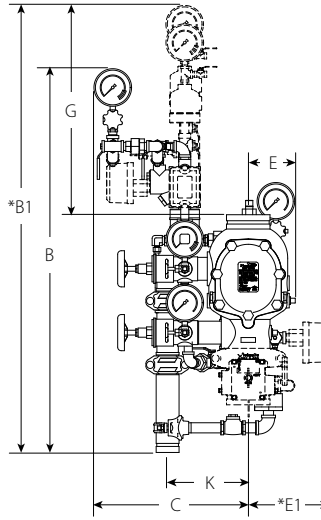
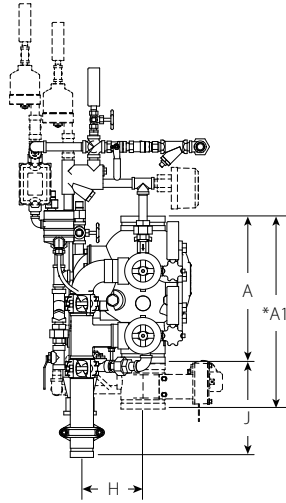


FireLock® Automatic Devices and Accessories

FireLock NXT® Preaction System Check Valve

**SERIES 769 WITH SERIES 798
DOUBLE-PNEUMATIC ACTUATORS**

For Complete Information on the AutoConvert Trim Assembly for FireLock NXT Preaction Systems, Request Publication 30.84.
For Systems Approved by LPCB, Request Publication 30.85



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50mm CONFIGURATIONS CONTAIN ¼"/20mm DRAIN VALVES.
2½–3"/65–80mm CONFIGURATIONS CONTAIN 1¼"/32mm DRAIN VALVES.
4–8"/100–200mm CONFIGURATIONS CONTAIN 2"/50mm DRAIN VALVES.



| Size | | Dimensions – Inches/mm | | | | | | | | | | | | | | Approximate Weight Each | | |
|------------------------------|---|------------------------|-----------------|---------------|---------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|----------------|-----------------|-------------------------|----------------------------|-------------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A | A1 * | B | B1 * | C | D | D1 * | E | E1 * | F | F1 | G | H | J | K | Without Trim Lbs. kg | With Trim Lbs. kg |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.43 417.32 | 36.00 914 | 42.50 1079 | 15.75 400 | 19.00 482 | 21.00 533 | 5.25 133 | 8.50 215 | 10.75 273 | 12.75 323 | 24.25 615 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.43 417.32 | 36.00 914 | 42.50 1079 | 15.75 400 | 19.00 482 | 21.00 533 | 5.25 133 | 8.50 215 | 10.75 273 | 12.75 323 | 24.25 615 | 3.04 77.21 | 9.17 232.91 | 6.98 177.29 | 17.0 7.7 | 43.3 19.6 |
| 2½ 65 | 2.875 73.0 | 12.61 320.29 | 16.50 419.10 | 39.25 996 | 45.75 1162 | 15.75 400 | 19.00 482 | 21.00 533 | 5.25 133 | 9.00 228 | 10.75 273 | 12.75 323 | 22.50 571 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 16.50 419.10 | 39.25 996 | 45.75 1162 | 15.75 400 | 19.00 482 | 21.00 533 | 5.25 133 | 9.00 228 | 10.75 273 | 12.75 323 | 22.50 571 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.50 419.10 | 39.25 996 | 45.75 1162 | 15.75 400 | 19.00 482 | 21.00 533 | 5.25 133 | 9.00 228 | 10.75 273 | 12.75 323 | 22.50 571 | 3.90 99.06 | 10.50 266.70 | 6.93 176.02 | 41.0 18.7 | 65.0 29.5 |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 40.50 1028 | 47.00 1193 | 16.75 425 | 19.00 482 | 24.00 609 | 5.50 139 | 9.00 228 | 12.25 311 | 14.25 361 | 22.25 565 | 6.25 158.75 | 9.62 244.34 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 22.00 558.80 | 40.75 1035 | 47.25 1200 | 17.00 431 | 19.00 482 | 25.25 641 | 6.00 152 | 8.50 215 | 12.75 323 | 14.75 374 | 21.50 546 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 40.75 1035 | 47.25 1200 | 17.00 431 | 19.00 482 | 25.25 641 | 6.00 152 | 8.50 215 | 12.75 323 | 14.75 374 | 21.50 546 | 6.20 157.48 | 9.62 244.34 | 8.84 224.53 | 80.0 36.2 | 116.0 52.6 |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 22.94 582.67 | 40.50 1028 | 47.00 1193 | 18.25 463 | 21.50 546 | 28.75 730 | 7.00 177 | 8.75 222 | 14.25 361 | 16.25 412 | 20.00 508 | 6.05 153.67 | 9.40 238.76 | 10.21 259.33 | 122.0 55.3 | 158.0 71.6 |

- Vic-Quick Riser speeds installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from preaction pipe sprinkler systems
- Full trim packages for non-interlocked, single-interlocked and double-interlocked systems are available
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 8-13
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½–8"/40–200 mm

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

IMPORTANT NOTES:

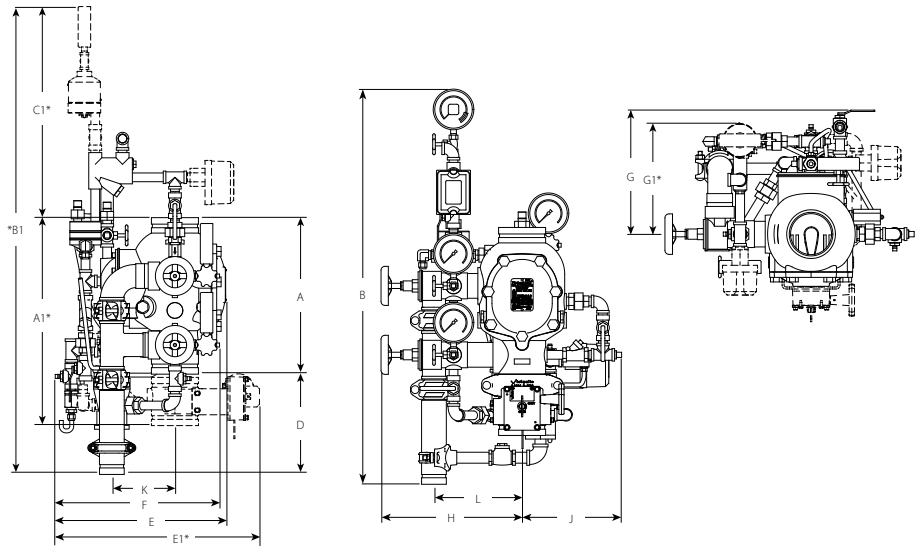
Components shown as dotted lines denote optional equipment.
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock® Automatic Devices and Accessories

FireLock NXT® Alternate
Wet/Dry System Check Valve
– Europe only

SERIES 764

For Complete Information Request
Publication 30.83



THE 4"/100mm CONFIGURATION IS SHOWN ABOVE
1½–2"/40–50 mm CONFIGURATIONS CONTAIN ¾"/20 mm DRAIN VALVES.
2½–3"/65–80 mm CONFIGURATIONS CONTAIN 1¼"/32 mm DRAIN VALVES.
4–8"/100–200 mm CONFIGURATIONS CONTAIN 2"/50 mm DRAIN VALVES.

| Size | | Dimensions – Inches/mm | | | | | | | | | | | | | | | Approx. Weight Each Lbs./kg | |
|------------------------|-------------------------------|------------------------|-----------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|-----------------|----------------|----------------|-----------------------------|---------------|
| Nominal Size Inches mm | Actual Outside Dia. Inches mm | A | A1* | B | B1* | C1* | D | E | E1* | F | G | G1* | H | J | K | L | Without Trim | With Trim |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 16.31 414.27 | 27.50 698 | 34.50 876 | 16.50 419 | 9.75 247 | 12.50 317 | 15.00 381 | 15.75 400 | 9.25 234 | 11.25 285 | 10.20 259.08 | 8.50 215.90 | 3.04 77.21 | 6.98 177.29 | 16.7 7.6 | 43.0 19.5 |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 16.31 414.27 | 27.50 698 | 34.50 876 | 16.50 419 | 9.75 247 | 12.50 317 | 15.00 381 | 15.75 400 | 9.25 234 | 11.25 285 | 10.20 259.08 | 8.53 216.66 | 3.04 77.21 | 6.98 177.29 | 17.0 7.7 | 43.0 19.5 |
| 76.1 mm | 3.00 76.1 | 12.61 320.29 | 16.44 417.57 | 31.75 806 | 44.25 1123 | 21.25 539 | 11.25 285 | 14.50 368 | 18.25 463 | 16.75 425 | 10.00 254 | 9.75 247 | 10.65 270.51 | 9.04 229.61 | 3.76 95.50 | 6.69 169.92 | 41.0 18.7 | 65.0 29.5 |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 16.44 417.57 | 31.75 806 | 44.25 1123 | 21.25 539 | 11.25 285 | 14.50 368 | 18.75 476 | 16.75 425 | 10.00 254 | 9.75 247 | 10.65 270.51 | 9.04 229.61 | 3.76 95.50 | 6.69 169.92 | 41.0 18.7 | 65.0 29.5 |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 19.78 502.41 | 32.75 831 | 45.50 1155 | 21.00 533 | 10.25 260 | 16.00 406 | 20.75 527 | 15.50 393 | 11.25 285 | 10.75 273 | 13.54 343.91 | 9.56 242.82 | 6.06 153.92 | 8.46 214.88 | 59.0 26.7 | 95.0 43.0 |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 22.00 558.80 | 33.00 838 | 45.75 1162 | 20.00 508 | 10.25 260 | 17.25 438 | 22.25 565 | 15.75 400 | 11.50 292 | 11.00 279 | 13.46 341.88 | 9.94 252.47 | 6.06 153.92 | 8.38 212.85 | 80.0 36.2 | 116.0 52.6 |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 23.01 584.45 | 33.00 838 | 45.75 1162 | 18.75 476 | 10.00 254 | 19.00 482 | 24.25 615 | 16.00 406 | 11.75 298 | 11.00 279 | 14.80 375.92 | 11.00 279.40 | 6.06 153.92 | 9.72 246.88 | 122.0 55.3 | 158.0 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.

- Valve can be field-converted from wet to dry quickly to accommodate changes in temperature
- Valve pre-trimmed to speed installation, see pg. 8-9
- Includes control valves, pressure switches, and drain kit
- Single set point of 13 psi/90 kPa of air allows for a smaller compressor and easier set-up
- Low differential, latched clapper valve that separates system water from dry-pipe sprinkler systems
- Available bare, pre-trimmed, as a Vic-Quick riser, pg. 8-13
- When the system air pressure is released, the decreasing air pressure activates the low pressure actuator and releases the latch mechanism, which allows the clapper to open
- For available accessories and actuators, see pg. 8-15
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½ – 8"/40 – 200 mm



FireLock® Automatic Devices and Accessories

Vic-Quick Riser Trim Kit

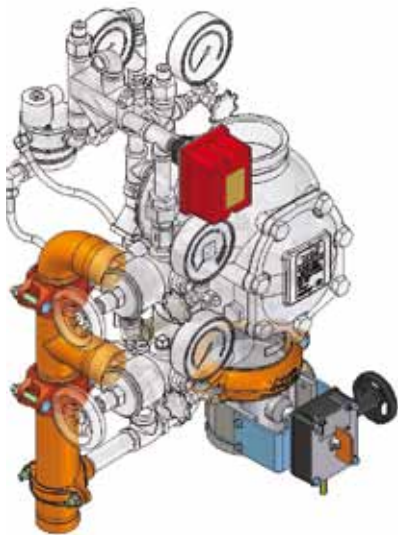
FireLock NXT® valves can be specified with a Vic-Quick riser trim assembly, reducing installation time by as much as 30%.

VIC-QUICK RISERS INCLUDE:

- Shut off valve
- Pre-set pressure switches
- Drain kit for ease of installation.

The Vic-Quick Riser is available for all sizes of Series 768 dry, Series 769 deluge and Series 769 preaction FireLock NXT valves. The Vic-Quick riser can be installed into the system using Style 009H FireLock EZ® or Style 005 FireLock rigid couplings. See installation manuals for complete set-up procedures.

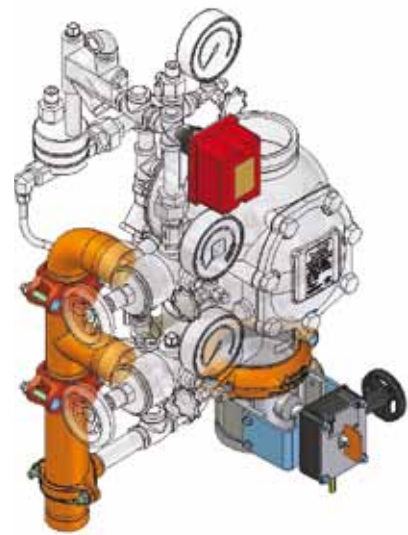
FireLock NXT Valves shown with Vic-Quick Riser Trim Kit



SERIES 768 DRY VALVE



SERIES 769 DELUGE VALVE



SERIES 769 PREACTION VALVE

AutoConvert Trim Assembly for FireLock NXT Preaction Devices

For preaction applications where power supply is suspect or AHJ/owners have concerns about extended outages.

- Trim Assembly provides conversion from single or double interlock preaction to non-interlock functionality without reliance on battery backup or powered solenoid
- System retains panel battery power for detection and alarms during power outage
- System immediately resets to preaction status when power is restored
- FM Approved – see Submittal Publication 30.84.

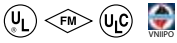


FireLock® Automatic Devices and Accessories

FireLock Alarm Check Valve

SERIES 751

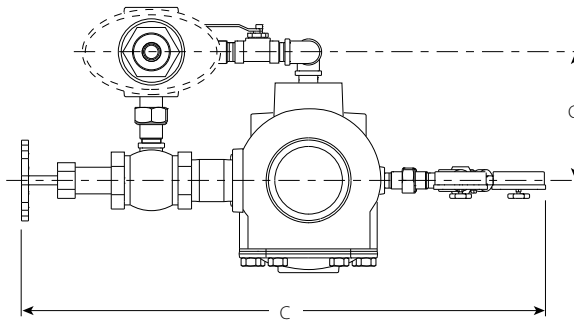
For Complete Information
Request Publication 30.01



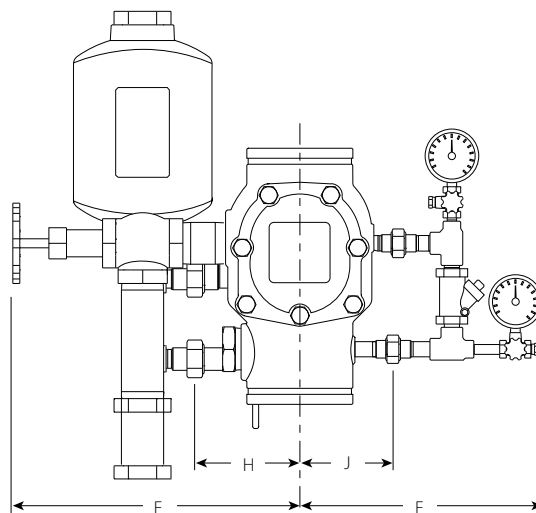
- Prevents the reverse flow of water from the system piping to the water supply
- The bypass line allows pressure surges to enter the system without causing false alarms
- Excess pressure pump trim option available upon request
- UL Listed /FM Approved/ VNIPO Approved version shown at right
- For available accessories, see pg. 8-16
- Pressure rated up to 300 psi/2065 kPa for sizes 1½–6"/40–150 mm
- Pressure rated up to 225 psi/ 1550 kPa for size 8"/200 mm

| Size | | Dimensions – Inches/mm | | | | | | | | | | Approximate Weight Each | |
|------------------------------|---|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------------------|----------------------------|--|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | A End to End | B Height | C Width | D Depth | E | F | G | H | J | Without Trim Lbs. kg | With Trim Lbs. kg | |
| 1½ 40 | 1.900 48.3 | 9.00 228.60 | 18.50 470 | 21.00 533 | 12.50 318 | 10.00 254 | 11.00 279 | 9.00 229 | 5.00 127 | 5.00 127 | 14.2 6.4 | 31.0 14.1 | |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 18.50 470 | 21.00 533 | 12.50 318 | 10.00 254 | 11.00 279 | 9.00 229 | 5.00 127 | 5.00 127 | 14.6 6.6 | 31.0 14.1 | |
| 2½ 65 | 2.875 73.0 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 34.4 15.6 | 52.0 23.6 | |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 34.4 15.6 | 52.0 23.6 | |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 35.3 16.0 | 52.0 23.6 | |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 23.50 597 | 29.00 737 | 14.00 356 | 13.50 343 | 15.00 381 | 10.00 254 | 5.80 147 | 5.80 147 | 49.0 22.2 | 80.0 36.3 | |
| 6 ** 150 | 6.625 168.3 | 16.00 406.40 | 24.00 610 | 30.11 765 | 17.28 439 | 14.25 362 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 69.0 31.3 | 91.0 41.3 | |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 24.00 610 | 30.11 765 | 17.28 439 | 14.25 362 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 69.0 31.3 | 95.0 43.1 | |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 26.00 660 | 30.00 762 | 18.00 457 | 15.25 387 | 16.00 406 | 10.00 254 | 16.00 406 | 10.00 254 | 142 64.4 | 182 82.6 | |

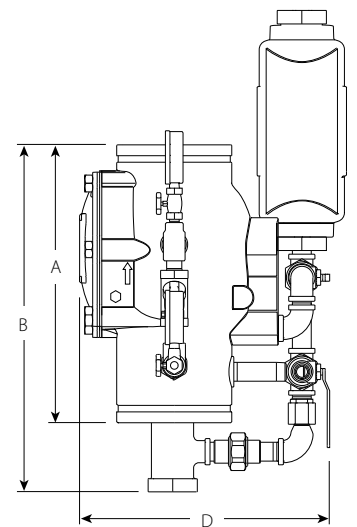
** 6" KFI Approved (Korea)



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

FireLock® Automatic Devices and Accessories

FireLock European Alarm Check Valve Station

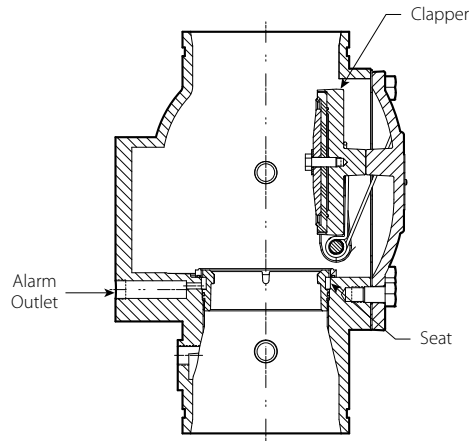
SERIES 751

For Complete Information Request Publication 30.01



- Prevents the reverse flow of water from the system piping to the water supply
- The bypass line allows pressure surges to enter the system without causing false alarms
- Can be installed in vertical positions only
- Excess pressure pump trim option available upon request
- For available accessories, see pg. 8-16
- Pressure rated up to 232 psi/16 bar
- Available in 3", 4", 6" 165.1mm (not VdS Approved) and 8" sizes

| Size | | Dimensions – Inches/mm | | | | | | | | | | Aprx. Wgt. Each | |
|---------------------|--------------------------------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|-------------------|--|
| Nominal Size In./mm | Actual Outside Diameter In./mm | E to E A | Height B | Width C | Depth D | E | F | G | H | J | Without Trim Lbs./kg | With Trim Lbs./kg | |
| 1 1/2 40 | 1.900 48.3 | 9.00 228.60 | 18.50 470 | 21.00 533 | 12.50 318 | 10.00 254 | 11.00 279 | 9.00 229 | 5.00 127 | 5.00 127 | 14.2 6.4 | 31.0 14.1 | |
| 2 50 | 2.375 60.3 | 9.00 228.60 | 18.50 470 | 21.00 533 | 12.50 318 | 10.00 254 | 11.00 279 | 9.00 229 | 5.00 127 | 5.00 127 | 14.6 6.6 | 31.0 14.1 | |
| 2 1/2 65 | 2.875 73.0 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 34.4 15.6 | 52.0 23.6 | |
| 76.1 mm | 3.000 76.1 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 34.4 15.6 | 52.0 23.6 | |
| 3 80 | 3.500 88.9 | 12.61 320.29 | 22.50 572 | 23.50 597 | 13.50 343 | 11.25 286 | 12.00 305 | 9.00 229 | 5.00 127 | 5.00 127 | 35.3 16.0 | 52.0 23.6 | |
| 4 100 | 4.500 114.3 | 15.03 381.76 | 23.50 597 | 29.00 737 | 14.00 356 | 13.50 343 | 15.00 381 | 10.00 254 | 5.80 147 | 5.80 147 | 49.0 22.2 | 80.0 36.3 | |
| 6 150 | 6.625 168.3 | 16.00 406.40 | 24.00 610 | 30.11 765 | 17.28 439 | 14.25 362 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 69.0 31.3 | 91.0 41.3 | |
| 165.1 mm | 6.500 165.1 | 16.00 406.40 | 24.00 610 | 30.11 765 | 17.28 439 | 14.25 362 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 69.0 31.3 | 95.0 43.1 | |
| 8 200 | 8.625 219.1 | 17.50 444.50 | 26.00 660 | 30.00 762 | 18.00 457 | 15.25 387 | 16.00 406 | 10.00 254 | 16.00 406 | 10.00 254 | 142 64.4 | 182 82.6 | |
| 4 100 | 4.500 114.3 | 15.64 397.26 | 23.50 597 | 29.00 737 | 14.00 355 | 11.50 292 | 15.00 381 | 10.00 254 | 5.80 147 | 5.80 147 | 59.0 26.8 | 90.0 40.8 | |
| 6 150 | 6.625 168.3 | 16.94 430.28 | 24.00 610 | 30.11 765 | 17.28 439 | 14.00 356 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 79.0 35.8 | 106.0 48.1 | |
| 165.1 mm | 6.500 165.1 | 16.94 430.28 | 24.00 610 | 30.11 765 | 17.28 439 | 14.00 356 | 16.00 406 | 10.00 254 | 5.88 149 | 6.02 153 | 79.0 35.8 | 110.0 49.9 | |
| 8 200 | 8.625 219.1 | 19.27 489.46 | 26.00 660 | 20.00 508 | 18.00 457 | 16.00 406 | 14.00 356 | 10.00 254 | 16.00 406 | 10.00 254 | 155 70 | 195 88.5 | |



Exaggerated for clarity

FireLock® Automatic Devices and Accessories

FireLock Fire-Pac

SERIES 745

For Complete Information
Request Publication 30.23

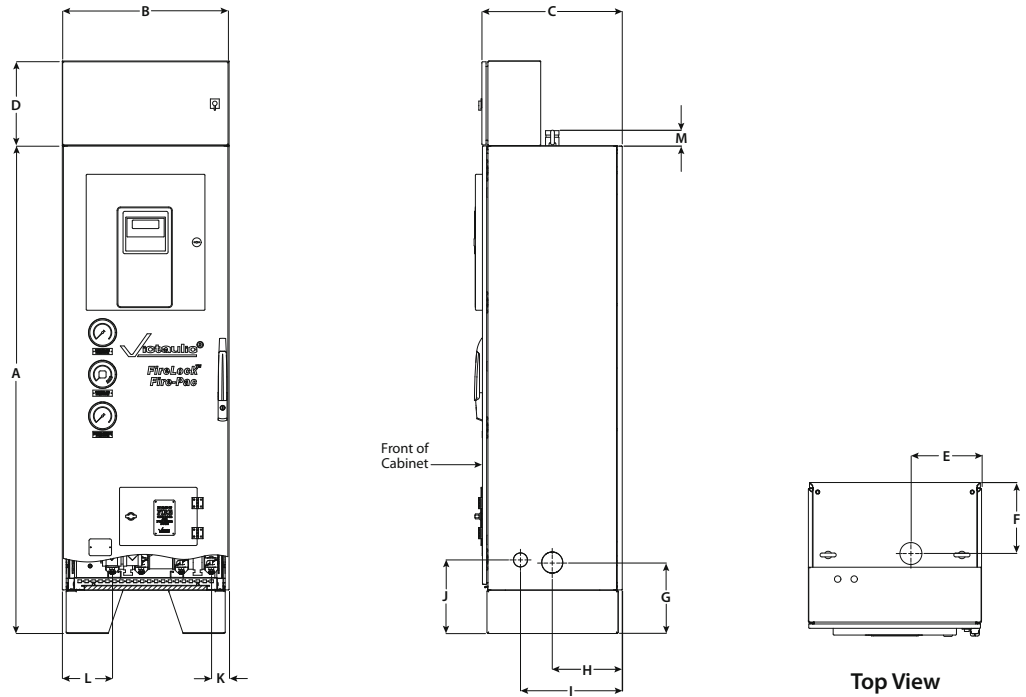


1½–2" / 40–50 mm

2½–6" / 65–150 mm

- Completely pre-assembled fire protection valve that provides maximum service in a minimal enclosed space
- All electrical enclosures and connections are UL listed, and all materials and wiring conform to NFPA requirements; CSA wiring for Canada available upon request
- Sizes from 1½–6" / 40–150 mm for the following configurations:
 Dry
 Deluge – Wet pilot, dry pilot, and electric actuation
 Preaction – Non-Interlock, Single-Interlock, Double-Interlock, AutoConvert

| Valve Size | | Dimensions – Inches/mm | | | | | | | | | | | | | | Approximate Weight Each Lbs/kg |
|------------------------------|---|------------------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|--------------|---------------|--------------|----------------|-----------------------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | Height A | Width B | Depth C | D | E | F | G | H | I | J | K | L | M | | |
| 1½ 40 | 1.900 48.3 | 69.11 1755.4 | 23.62 599.9 | 19.89 505.2 | 12.00 304.8 | 9.63 244.6 | 9.69 246.1 | 10.05 255.3 | 9.92 252.0 | 14.42 366.3 | 10.43 264.9 | 2.52 64.0 | 7.06 179.3 | 3.00 76.2 | 350.0 158.8 | |
| 2 50 | 2.375 60.3 | 69.11 1755.4 | 23.62 599.9 | 19.89 505.2 | 12.00 304.8 | 9.63 244.6 | 9.69 246.1 | 10.05 255.3 | 9.92 252.0 | 14.42 366.3 | 10.43 264.9 | 2.20 55.9 | 7.56 192.0 | 3.00 76.2 | 360.0 163.3 | |



FireLock® Automatic Devices and Accessories

FireLock Fire-Pac

SERIES 745

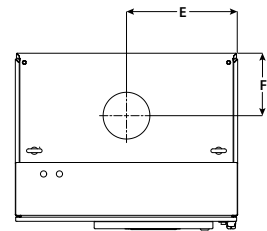
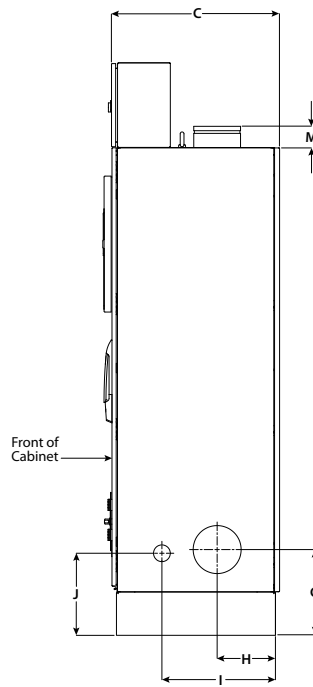
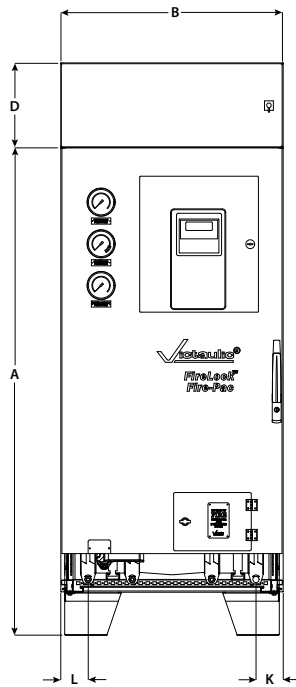
For Complete Information
Request Publication 30.23



1½-2"/40-50 mm

2½-6"/65-150 mm

| Valve Size | | Dimensions – Inches/mm | | | | | | | | | | | | | Approximate Weight Each Lbs/kg |
|------------------------------|---|------------------------|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|--------------|-----------------------------------|
| Nominal Size Inches mm | Actual Outside Diameter Inches mm | Height A | Width B | Depth C | D | E | F | G | H | I | J | K | L | M | |
| 2½ 65 | 2.875 73.0 | 69.11 1755.4 | 31.50 800.1 | 23.81 604.8 | 12.00 304.8 | 15.75 400.1 | 8.84 224.5 | 12.15 308.6 | 8.84 224.5 | 16.67 423.4 | 11.62 295.1 | 4.47 113.5 | 4.47 113.5 | 3.00 76.2 | 516.0 234.1 |
| 3 80 | 3.500 88.9 | 69.11 1755.4 | 31.50 800.1 | 23.81 604.8 | 12.00 304.8 | 15.75 400.1 | 8.84 224.5 | 12.15 308.6 | 8.84 224.5 | 16.67 423.4 | 11.62 295.1 | 5.57 141.5 | 5.57 141.5 | 3.00 76.2 | 522.0 236.8 |
| 4 100 | 4.500 114.3 | 69.11 1755.4 | 31.50 800.1 | 23.81 604.8 | 12.00 304.8 | 15.75 400.1 | 8.84 224.5 | 12.15 308.6 | 8.84 224.5 | 16.67 423.4 | 11.62 295.1 | 5.73 155.5 | 5.40 137.2 | 3.00 76.2 | 720.0 326.6 |
| 6 150 | 6.625 168.3 | 69.11 1755.4 | 31.50 800.1 | 23.81 604.8 | 12.00 304.8 | 15.75 400.1 | 8.84 224.5 | 12.15 308.6 | 8.84 224.5 | 16.67 423.4 | 11.62 295.1 | 3.85 97.8 | 3.85 97.8 | 3.00 76.2 | 840.0 381.0 |



Top View

FireLock® Automatic Devices and Accessories

FireLock Air Maintenance/Compressor Assembly

SERIES 7C7 – for FireLock NXT® Series 768, 769 and 764 Valves

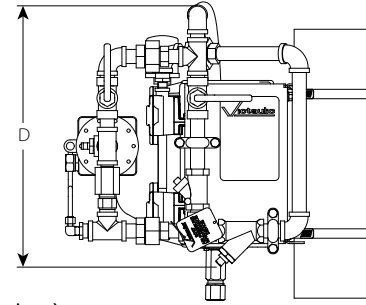
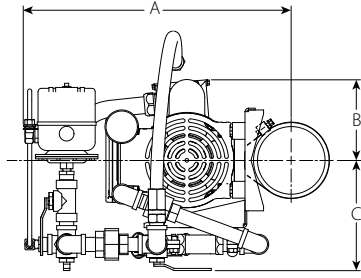
For Complete Information Request Publication **30.22**



- The Series 7C7 Air Maintenance/Compressor assembly consists of a riser-mounted compressor, Series 757P Air Maintenance Device and flexible hoses for installation. It is designed to ensure the valve system can achieve operational air pressure within 30 minutes of discharge, in accordance with NFPA 13 requirements (7.2.6.2.2)
- The Series 757P Air Maintenance Device is UL Listed and FM Approved
- The Series 7C7 Assembly is available with 1/6, 1/3 and 1/2 horsepower compressors depending upon the system requirements

COMPRESSOR CAPACITIES

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



Series 7C7 (1/2HP size shown)

| Hp | Nominal AC Voltage/Hz (+/- 10%) | Pressure | Time | Capacity WITH AutoVent | Capacity WITHOUT AutoVent | Amp Draw |
|-----|---------------------------------|-----------|------|------------------------|---------------------------|----------|
| | | | | gallons/m ³ | gallons/m ³ | |
| 1/6 | 110/60 | 18 1.2 | 30 | 175 0.7 | 275 1.1 | 2.1 Amps |
| 1/3 | 110/60 | 18 1.2 | 30 | 375 1.4 | 525 2.0 | 4.4 Amps |
| 1/3 | 220/50 | 18 1.2 | 30 | 160 0.6 | 235 0.9 | |
| 1/3 | 220/50 | 18 1.2 | 60 | 450 1.7 | 660 2.5 | |
| 1/3 | 220/60 | 18 1.2 | 30 | 370 1.4 | 400 1.5 | 6.6 Amps |
| 1/2 | 110/50 | 18 1.2 | 30 | 660 2.5 | 670 2.5 | |
| 1/2 | 110/60 | 18 1.2 | 30 | 780 3.0 | 830 3.1 | |

Note: Refer to submittal publication for additional information and system design guidelines.

| Series 7C7 - 1/2HP Compressor | | | | |
|-------------------------------|-------|-----|------|-------|
| Pipe Size | A | B | C | D |
| 1 1/2" | 14.5 | 4.8 | 6.55 | 15.54 |
| 2" | 14.77 | 4.8 | 6.55 | 15.54 |
| 2 1/2" & 76.1 | 15.03 | 4.8 | 6.55 | 15.54 |
| 3" | 15.36 | 4.8 | 6.55 | 15.54 |
| 4" | 15.94 | 4.8 | 6.55 | 15.54 |
| 6" & 165.5 | 16.98 | 4.8 | 6.55 | 15.54 |
| 8" | 18.01 | 4.8 | 6.55 | 15.54 |

| Series 7C7 - 1/3HP Compressor | | | | |
|-------------------------------|-------|------|------|-------|
| Pipe Size | A | B | C | D |
| 1 1/2" | 14.53 | 5.00 | 6.55 | 15.38 |
| 2" | 14.78 | 5.00 | 6.55 | 15.38 |
| 2 1/2" & 76.1 | 15.04 | 5.00 | 6.55 | 15.38 |
| 3" | 15.36 | 5.00 | 6.55 | 15.38 |
| 4" | 15.88 | 5.00 | 6.55 | 15.38 |
| 6" & 165.5 | 16.98 | 5.00 | 6.55 | 15.38 |
| 8" | 18.02 | 5.00 | 6.55 | 15.38 |

| Series 7C7 - 1/6HP Compressor | | | | |
|-------------------------------|-------|------|------|-------|
| Pipe Size | A | B | C | D |
| 1 1/2" | 14.53 | 4.60 | 6.55 | 15.38 |
| 2" | 14.78 | 4.60 | 6.55 | 15.38 |
| 2 1/2" & 76.1 | 15.04 | 4.60 | 6.55 | 15.38 |
| 3" | 15.36 | 4.60 | 6.55 | 15.38 |
| 4" | 15.88 | 4.60 | 6.55 | 15.38 |
| 6" & 165.5 | 16.98 | 4.60 | 6.55 | 15.38 |
| 8" | 18.02 | 4.60 | 6.55 | 15.38 |



FireLock® Automatic Devices and Accessories

Accessories



Series 768 Dry
Pg. 8-3

Series 769 Deluge
Pg. 8-4

Series 769 Preaction
Pgs. 8-5–8-7

Series 764 Alternate
Wet/Dry
Pg. 8-8

Series 751 Alarm
Pg. 8-10
Series 751 European
Alarm Check Valve
Station Pg. 8-11

STANDARD

| | | | | | |
|---|---|---|---|---|--|
| Series 7C7 Compressor Package | ● | ● | ● | ● | |
| Series 753-E Solenoid Actuator | | ● | ● | | |
| Series 767 Electric/Pneumatic Actuator | | | ● | | |
| Series 776 Low Pressure Actuator | ● | ● | ● | ● | |
| Series 798 Double Pneumatic Actuator | | | ● | | |
| Series 729 Ball Drip Assembly | ● | ● | ● | ● | |
| Series 748 Ball Check Valve | ● | ● | ● | ● | |
| Series 749 Auto Drain Assembly | ● | ● | ● | ● | |
| Series 755 Manual Pull Station | | ● | ● | | |

OPTIONAL

| | | | | | |
|--|---|---|---|---|---|
| Series 746 Dry Accelerator | ● | ● | ● | ● | |
| Series 746-LPA Dry Accelerator | ● | ● | ● | ● | |
| Series 752 FireLock Retard Chamber | | | | | ● |
| Series 757/757P Air Maintenance Trim Assembly | ● | ● | ● | ● | |
| Series 75-D Water Column Component Drain Kit | ● | ● | ● | ● | |
| Series 75-B Supplemental Alarm Kit | ● | ● | ● | ● | |
| Series 760 Water Motor Alarm | ● | ● | ● | ● | ● |
| Drain Connection Kit | ● | ● | ● | ● | ● |
| AutoConvert Trim Assembly | | | ● | | |

ELECTRICAL

| | | | | | |
|-------------------------|---|---|---|---|---|
| Alarm Pressure Switches | ● | ● | ● | ● | ● |
| Supervisory Switches | ● | ● | ● | ● | |

FireLock® Device Accessories



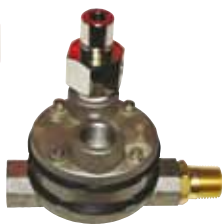
Series 7C7
Compressor Package
Request Publication 30.22



Series 753-E
Solenoid Actuator
Request Publication 30.63



Series 767 Electric/
Pneumatic Actuator
Request Publication 30.62



Series 776 Low
Pressure Actuator
(Standard in Europe and
Middle East)
Request Publication 30.65



Series 798 Double
Pneumatic Actuator
(For use with Series 769
FireLock preaction system
check valves only)
Request Publication 30.61



Series 746-LPA FireLock
Dry Accelerator
(For use with Series 776, 767,
and 798 actuators only)
Request Publication 30.64



Series 752 FireLock
Retard Chamber
(For use with Series 751 and
Series 759 FireLock alarm
check valves only)
Request Publication 30.31



Series 755
Manual Pull Station
Request Publication 30.41



Series 760 FireLock
Water Motor Alarm
Request Publication 30.32



Series 757 Air Maintenance
Trim Assembly
Request Publication 30.35



Series 757P Air Maintenance
Trim Assembly
Request Publication 30.36



AutoConvert Trim
Assembly
*Request Publication 30.84
or 30.85 for LPCB
Approved options.*

FireLock® Automatic Sprinklers

Victaulic FireLock sprinklers are designed for a wide variety of applications and are available with a wide range of finishes and temperature ratings, aesthetic and performance requirements, see pg. 9-4 for details.

Victaulic offers a complete line of accessories, guards, shields, escutcheons, expansion and cover plates – all designed to provide you with a single source for your next sprinkler project.



Request publication **10.01** for a complete listing of sprinklers.

Standard Commercial

Available in upright, pendent and sidewall configurations for most commercial applications.

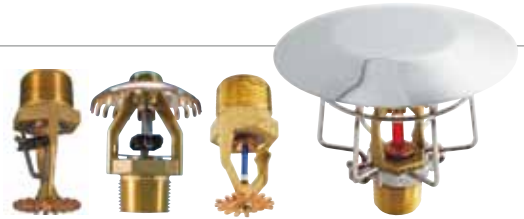
SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PGS. 9-5 – 9-6



Storage

Victaulic offers a full range of FireLock Storage sprinklers including the LP-46 Low Pressure Storage Sprinkler, Ordinary Hazard, Extended Coverage and Early Suppression/Fast Response (ESFR) styles for large storage areas.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-7



Extended Coverage

Our extended coverage sprinklers feature larger orifice sizes to provide added coverage when only normal water pressure is available. They are designed to produce a uniform, hemispherical spray pattern at 175 psi/1200 kPa and are designed for use in a variety of applications. Both standard and quick response models are available in a choice of finishes.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-8



Specific Applications

The model V2502 sprinkler is specifically designed to address combustible concealed horizontal spaces and is UL Listed for use with steel or CPVC piping systems.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-6



FireLock® Automatic Sprinklers

Victaulic dry sprinklers are the fastest to market in the industry

Victaulic dry sprinklers can be customized to meet specific application requirements and can be provided in lengths to the nearest 1/4"/6 mm. Industry standard lead time for customized sprinklers is three weeks, however Victaulic can turn customized dry sprinklers around in as little as five days.

FOR MORE INFORMATION, SEE PGS.9-11-9-12



PRODUCTS

- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex® Sprinkler Fittings
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories
- 8-1 FireLock Automatic Devices and Accessories
- 9-1 FireLock Automatic Sprinklers**
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools
- 12-1 Product Index

Residential



Our low profile quick response residential sprinklers offer an ideal combination of safety and aesthetics and a variety of finishes and deflector styles. They are designed to meet the requirements of NFPA 13D and 13R occupancies. Depending on available operating pressure and room configuration, these FireLock® sprinklers can be used in a variety of room conditions, including sloped ceilings.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-9

Decorative



Victaulic models V38 and V39 are concealed and available in a wide choice of standard and custom finishes. Installation is easy using a two-piece threaded mounting cup/cover plate with up to 1/2"/13 mm adjustability.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-10

Dry



Can be installed in wet or dry systems for areas exposed to freezing conditions. Designed with Belleville spring sealing mechanisms made of beryllium nickel. Features proprietary nickel Teflon* coating option and stainless steel escutcheons hydrostatically at 500 psi/3450 kPa. Available custom-made on a 5-day turnaround. Available escutcheons include a flush, sleeve and skirt, extended and recessed option for pendent and horizontal sidewall sprinklers.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PGS. 9-11-9-12

Window Nozzle Sprinklers



Our V1001-V1013 window nozzle sprinklers provide a water curtain against windows or other openings. These nozzles feature a solid brass body, and 180° flat, fan-shaped coverage.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-13

* Teflon is a registered trademark of Dupont Corporation.

FireLock® Automatic Sprinklers



Foam Nozzle Sprinklers

The model V26 Open Foam Nozzle works with various foam compounds—A.F.F.F., fluoro-protein, protein and alcohol-type foam liquids.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-13



Open Spray Nozzles

Victaulic V12 Open Spray Nozzles are designed for directional spray applications in fixed fire protection systems. They are available in multiple orifice sizes and spray angles.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 9-13

Special Coatings



NICKEL-TEFLON* COATING

Victaulic offers a proprietary UL Listed, corrosion-resistant, Nickel-Teflon coating for select FireLock automatic sprinklers.



WAX COATING

Victaulic sprinklers can be specially wax coated to ensure long life in potentially corrosive environments. Ask your Victaulic sales representative for further details.



Plain Brass finished Victaulic Sprinkler tested for 30 days in 20% salt fog and then rinsed in room temperature water agitator for 15 minutes.



Proprietary Nickel-Teflon coated Victaulic Sprinkler tested for 30 days in 20% salt fog and then rinsed in room temperature water agitator for 15 minutes.

* Teflon is a registered trademark of Dupont Corporation.

FireLock® Automatic Sprinklers



Wrenches

Our open-end, socket-style and recessed sprinkler wrenches are designed specifically for installing Victaulic sprinklers.

PG. 9-14



Accessories

SEE OUR FULL LINE OF ACCESSORIES ON PG. 9-14

Available Temperature Ratings

| Victaulic Part Identification | Temperature – °F/°C | | Sprinkler Temperature Classification | Glass Bulb Color | Solder Link Color |
|-------------------------------|----------------------|----------------------------|--------------------------------------|------------------|-------------------------------------|
| | Nominal Temp. Rating | Max. Ambient Temp. Allowed | | | |
| A # | 135 57 | 100 38 | Ordinary | Orange | — |
| C | 155 68 | — | — | Red | — |
| D* | 165 74 | 100 38 | Ordinary | — | — |
| E | 175 79 | 150 65 | Intermediate | Yellow | — |
| F | 200 93 | 150 65 | Intermediate | Green | — |
| G | 212 100 | 150 65 | Intermediate | — | Black with White Dot/ White Arms |
| J | 286 141 | 225 107 | High | Blue | Black with Blue Dot/Blue Arms |
| K | 360 182 | 300 149 | Extra High ‡ | Purple | — |
| M | Open | — | ‡ | Open | Open |
| N | 162 72 | 100 38 | Ordinary | — | Black |

‡ Standard response only.

138°F/59°C per LPCB

* Cover for use with a Standard or Quick Response Concealed Sprinkler 175°F/79°C or 200°F/93°F

IMPORTANT NOTES:

All glass bulbs are rated for temperatures from -67°F/-55°C up to those shown in adjacent table.

Not all temperatures are available with all styles of sprinklers. Consult individual submittal sheet for specific information.

Sprinkler Finishes

| Victaulic Part Identification | Finish |
|-------------------------------|-------------------------|
| 1 | Plain Brass |
| 2 | Chrome |
| 4 | White (RAL 9010) |
| 5 | Wax |
| 8 | Nickel/Teflon@ |
| B | Black (RAL 9004) |
| G | Cream (RAL 9001) |
| — | Custom |
| W | Bright White (RAL 9003) |

@ Teflon is a registered trademark of Dupont Corporation.



Our concealed cover plates can be matched to customer requested colors using our approved color chip chart. Ask your Victaulic sales representative about the hundreds of colors available.


FireLock® Sprinklers – Standard Commercial

Standard Commercial


Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor Imp. S.I. § | Deflector Type | Response | Nom. Thread Size In. (NPT) mm | Temperature Rating | | | | | | | Coatings and Finishes | | | | | | Approvals and Listings † | | | | | | Sub. Pub. | | |
|---------------|-------------------------|----------------|----------|----------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------------|---------------|------|-------------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|-----------|----|-----|
| | | | | | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | | UL | ULC |


LIGHT HAZARD, ORDINARY HAZARD, STORAGE *

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|------------|------------------|----------|---------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|
| K5.6  | V2703 | 5.6 8.1 | Upright | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 40.10 | |
| | V2707 | 5.6 8.1 | Pendent | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | V2707 | 5.6 8.1 | Recessed Pendent | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V2704 | 5.6 8.1 | Upright | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V2708 | 5.6 8.1 | Pendent | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V2708 | 5.6 8.1 | Recessed Pendent | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |


LIGHT HAZARD, ORDINARY HAZARD, STORAGE *

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|------------|--------------------------|----------|---------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|
| K5.6  | V2709 | 5.6 8.1 | Horizontal Sidewall | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 40.11 | |
| | V2709 | 5.6 8.1 | Recessed Horiz. Sidewall | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | V2710 | 5.6 8.1 | Horizontal Sidewall | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V2710 | 5.6 8.1 | Recessed Horiz. Sidewall | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |

LIGHT HAZARD, ORDINARY HAZARD

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|-------------|--------------------------|----------|---------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|---|
| K8.0  | V3401 | 8.0 11.5 | Upright | Standard | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 40.15 | |
| | V3405 | 8.0 11.5 | Pendent | Standard | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | |
| | V3405 | 8.0 11.5 | Recessed Pendent | Standard | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V3402 | 8.0 11.5 | Upright | Quick | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V3406 | 8.0 11.5 | Recessed Pendent | Quick | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V3409 | 8.0 11.5 | Horizontal Sidewall | Standard | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V3409 | 8.0 11.5 | Recessed Horiz. Sidewall | Standard | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |
| | V3410 | 8.0 11.5 | Horizontal Sidewall | Quick | ¾ 20 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | | • |

CONVENTIONAL (OLD STYLE)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|------------|-----------------|----------|---------|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| K5.6  | V2725 | 5.6 8.1 | Pendent/Upright | Standard | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | 40.17 |
| | V2726 | 5.6 8.1 | Pendent/Upright | Quick | ½ 15 | • | • | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to ½"/13 mm adjustment; For rooms 12 × 12 ft. to 20 × 20 ft./3.7 × 3.7 m to 6.1 × 6.1 m.

*** Recessed pendent up to ¼"/6 mm adjustment; For rooms 12 × 12 ft. to 18 × 18 ft./3.7 × 3.7 m to 5.5 × 5.5 m.

‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.


FireLock® Sprinklers – Storage

Storage


Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | | | | Coatings and Finishes | | | | | Approvals and Listings † | | | | | | Sub. Pub. | |
|---------------|----------|----------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|-----------------------|-------------|--------|----------------|-----|--------------------------|------------|--------|--------------|-------|----|-----------|-----|
| | | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | | ULC |


LP-46 LOW PRESSURE STORAGE SPINKLER

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|-------|--------------|---------|----------|---------|--|---|--|--|---|---|--|---|---|--|--|--|--|--|--|---|---|---|--|--|--|--|--|--|--|--|--|--|-------|
| K25.2 |  | V4601 | 25.2 36.8 | Pendent | Standard | 1 25 | | • | | | • | • | | • | | | | | | | | • | • | | | | | | | | | | | | 40.95 |
| | | V4603 | 25.2 36.8 | Upright | Standard | 1 25 | | • | | | • | | | | • | | | | | | | | | • | | | | | | | | | | | 40.98 |



EARLY SUPPRESSION FAST RESPONSE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|-------|--------------|---------|------|-----------|--|---|--|--|---|--|--|---|---|--|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|-------|
| K14.0 K16.8 |  | V4402 | 14.0 20.2 | Pendent | Fast | 3/4 20 | | • | | | • | | | • | | | | | | | • | • | | | | | | | | | | | 40.82 |
| | | V4404 | 16.8 24.2 | Pendent | Fast | 3/4 20 | | • | | | • | | | | • | | | | | | | | • | • | | | | | | | | | |

ORDINARY HAZARD, STORAGE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|-------|--------------|---------|----------|-----------|---|---|--|---|---|---|--|--|---|---|---|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|-------|--|--|--|
| K11.2 |  | V3407 | 11.2 16.1 | Pendent | Standard | 3/4 20 | • | • | | • | • | • | | | • | • | • | | | | | • | • | • | | | | | | | | | | 40.20 | | | |
| | | V3403 | 11.2 16.1 | Upright | Standard | 3/4 20 | • | • | | • | • | • | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | | |
| | | V3408 | 11.2 16.1 | Pendent | Quick | 3/4 20 | • | • | | • | • | • | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | | |
| | | V3404 | 11.2 16.1 | Upright | Quick | 3/4 20 | • | • | | • | • | • | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | | |

INTERMEDIATE LEVEL - RACK STORAGE, ORDINARY HAZARD

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------|-------------|---------|----------|-----------|---|---|--|---|---|---|--|---|---|--|--|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| K5.6 |  | V2723 | 5.6 8.1 | Pendent | Standard | 1/2 15 | • | • | | • | • | • | | • | | | | | | | | • | • | • | | | | | | | | | | | | | |
| | | V2721 | 5.6 8.1 | Upright | Standard | 1/2 15 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V2724 | 5.6 8.1 | Pendent | Quick | 1/2 15 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V2722 | 5.6 8.1 | Upright | Quick | 1/2 15 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |
| K8.0 |  | V3419 | 8.0 11.5 | Pendent | Standard | 3/4 20 | • | • | | • | • | • | | • | | | | | | | | • | • | • | | | | | | | | | | | | | |
| | | V3417 | 8.0 11.5 | Upright | Standard | 3/4 20 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V3420 | 8.0 11.5 | Pendent | Quick | 3/4 20 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V3418 | 8.0 11.5 | Upright | Quick | 3/4 20 | • | • | | • | • | • | | | • | | | | | | | | • | • | • | | | | | | | | | | | | |

Note: See page 9-11 for intermediate dry pendent sprinklers.

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to 1/2"/13 mm adjustment; For rooms 12 x 12 ft. to 20 x 20 ft./3.7 x 3.7 m to 6.1 x 6.1 m.

*** Recessed pendent up to 1/4"/6 mm adjustment; For rooms 12 x 12 ft. to 18 x 18 ft./3.7 x 3.7 m to 5.5 x 5.5 m.

‡‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.

SECTION 9: FIRELOCK® AUTOMATIC SPRINKLERS


FireLock® Sprinklers – Extended Coverage


Extended Coverage


Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | |
|---------------|----------|----------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|-------|-------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|
| | | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | PLAIN | BRASS | CHROME | WHITE OR CREAM | WAX | NICKEL/TEFLON | FLAT BLACK | CUSTOM | BRIGHT WHITE | CULUS | UL | | ULC |


EXTENDED COVERAGE LIGHT HAZARD

| K11.2 |  | Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | | | | | | | | | |
|-------|---|---------------|--------------|------------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|-------|-------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|----|-----|------|-------|-----|-------|--|--|
| | | | Imp. S.I. § | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | PLAIN | BRASS | CHROME | WHITE OR CREAM | WAX | NICKEL/TEFLON | FLAT BLACK | CUSTOM | BRIGHT WHITE | CULUS | UL | | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | | |
| | | V3411 | 11.2 16.1 | Pendent | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | 40.30 | | |
| | | V3411 | 11.2 16.1 | Recessed Pendent | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3412 | 11.2 16.1 | Pendent | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3412 | 11.2 16.1 | Recessed Pendent | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |

| K14.0 |  | Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | | | | | | | | | |
|-------|---|---------------|--------------|------------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|-------|-------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|----|-----|------|-------|-----|-------|-------|--|
| | | | Imp. S.I. § | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | PLAIN | BRASS | CHROME | WHITE OR CREAM | WAX | NICKEL/TEFLON | FLAT BLACK | CUSTOM | BRIGHT WHITE | CULUS | UL | | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | | |
| | | V3413 | 14.0 20.2 | Pendent | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | 40.31 | |
| | | V3413 | 14.0 20.2 | Recessed Pendent | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3414 | 14.0 20.2 | Pendent | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3414 | 14.0 20.2 | Recessed Pendent | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |

| K8.0 |  | Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | | | | | | | | | |
|------|--|---------------|-------------|--------------------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|-------|-------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|----|-----|------|-------|-----|-------|-------|--|
| | | | Imp. S.I. § | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | PLAIN | BRASS | CHROME | WHITE OR CREAM | WAX | NICKEL/TEFLON | FLAT BLACK | CUSTOM | BRIGHT WHITE | CULUS | UL | | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | | |
| | | V3415 | 8.0 11.5 | Horizontal Sidewall | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | 40.33 | |
| | | V3415 | 8.0 11.5 | Recessed Horiz. Sidewall | Standard | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3416 | 8.0 11.5 | Horizontal Sidewall | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |
| | | V3416 | 8.0 11.5 | Recessed Horiz. Sidewall | Quick | ¾ 20 | • | • | | | | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | |

EXTENDED COVERAGE ORDINARY HAZARD

| K14.0 |  | Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | | | | | | | | | | |
|-------|---|---------------|--------------|------------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|-------|-------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|----|-----|------|-------|-----|-------|--|-------|--|
| | | | Imp. S.I. § | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | PLAIN | BRASS | CHROME | WHITE OR CREAM | WAX | NICKEL/TEFLON | FLAT BLACK | CUSTOM | BRIGHT WHITE | CULUS | UL | | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | | | |
| | | V3421 | 14.0 20.2 | Pendent | Standard | ¾ 20 | • | | • | • | • | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | 40.34 | |
| | | V3421 | 14.0 20.2 | Recessed Pendent | Standard | ¾ 20 | • | | • | • | • | | | | | | • | • | • | | | | | | • | • | • | | | | | | | | | | | | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to ½"/13 mm adjustment; For rooms 12 x 12 ft. to 20 x 20 ft./3.7 x 3.7 m to 6.1 x 6.1 m.

*** Recessed pendent up to ¼"/6 mm adjustment; For rooms 12 x 12 ft. to 18 x 18 ft./3.7 x 3.7 m to 5.5 x 5.5 m.

‡‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.









FireLock® Sprinklers – Residential

Residential

Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | | |
|---------------|----------|----------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|---------------|------|-------------|--------|--------------------------|-----|---------------|------------|--------|--------------|-------|-----------|----|-----|
| | | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | | UL | ULC |

RESIDENTIAL

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------|------------|--------------------------|-------|---------|---|---|--|--|--|--|--|--|--|--|---|---|---|---|--|--|--|--|--|--|--|--|--|--|-------|--|
| K4.2 |  | V2738# | 4.2 6.0 | Horizontal Sidewall | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | 40.54 | |
| | | V2738# | 4.2 6.0 | Recessed Horiz. Sidewall | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| K4.9 |  | V2730# | 4.9 7.1 | Pendent | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | 40.41 | |
| | | V2730# | 4.9 7.1 | Recessed Pendent | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V2732# | 4.9 7.1 | Pendent | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V2732# | 4.9 7.1 | Recessed Pendent | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| K4.9 |  | V2734# | 4.9 7.1 | Concealed Pendent | Quick | ½ 15 | • | • | | | | | | | | | • | • | • | | | | | | | | | | | | 40.42 | |
| | | V2736 | 4.9 7.1 | Concealed Pendent | Quick | ½ 15 | • | • | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| K4.9 |  | V2740 | 4.9 7.1 | Pendent | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | | |
| | | V2740 | 4.9 7.1 | Recessed Pendent ** | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| | | V2740 | 4.9 7.1 | Recessed Pendent *** | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| K4.9 |  | V2742 | 4.9 7.1 | Concealed Pendent | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | 40.52 | |
| K5.6 |  | V2744 | 5.6 8.1 | Horizontal Sidewall | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | | |
| | | V2744 | 5.6 8.1 | Recessed Horiz. Sidewall | Quick | ½ 15 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| K6.9 |  | V3426 | 6.9 9.9 | Pendent | Quick | ¾ 20 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | | |
| | | V3426 | 6.9 9.9 | Recessed Pendent | Quick | ¾ 20 | • | | | | | | | | | | | • | • | • | | | | | | | | | | | | |
| RESIDENTIAL - LOW FLOW ADJUSTABLE CONCEALED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K5.6 |  | V3806 | 5.6 8.1 | Concealed Pendent | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | | | | | | | | | 40.43 | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to ½"/13 mm adjustment; For rooms 12 × 12 ft. to 20 × 20 ft./3.7 × 3.7 m to 6.1 × 6.1 m.

*** Recessed pendent up to ¼"/6 mm adjustment; For rooms 12 × 12 ft. to 18 × 18 ft./3.7 × 3.7 m to 5.5 × 5.5 m.

‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.

FireLock® Sprinklers – Decorative

Decorative

Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor Imp. S.I. § | Deflector Type | Response | Nom. Thread Size In. (NPT) mm | Temperature Rating | | | | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | Sub. Pub. |
|---------------|-------------------------|----------------|----------|-------------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|-----------------------|----------------|-----|---------------|------------|--------|--------------|--------------------------|----|-----|----|-----|------|-----------|
| | | | | | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | |

RESIDENTIAL - ADJUSTABLE FLUSH

| Model | K-Factor | Deflector Type | Response | Nom. Thread Size | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | Sub. Pub. |
|-------------|------------|----------------|----------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|--------|----------------|-----|---------------|------------|--------|--------------|-------|----|-----|----|-----|------|-------|-----|-------|-----------|
| K4.1 | 4.1 6.1 | Pendent | Quick | ½ 15 | • | | | | | | | | | | • | • | • | | | | • | • | • | • | • | | | | | | | 40.44 |



ADJUSTABLE, CONCEALED, LIGHT AND ORDINARY HAZARD

| Model | K-Factor | Deflector Type | Response | Nom. Thread Size | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | Sub. Pub. |
|-------------|------------|-------------------------|----------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|--------|----------------|-----|---------------|------------|--------|--------------|-------|----|-----|----|-----|------|-------|-----|-------|-----------|
| K5.6 | 5.6 8.1 | Concealed Pendent | Standard | ½ 15 | • | • | | | • | • | | | | | • | • | • | | | | • | • | • | • | • | | | | | | | 40.50 |
| | 5.6 8.1 | Concealed Pendent | Quick | ½ 15 | • | • | | | • | • | | | | | • | • | • | | | | • | • | • | • | • | | | | | | | 40.55 |
| | 5.6 8.1 | 300psi Conceal. Pendent | Standard | ½ 15 | • | • | | | • | • | | | | | • | • | • | | | | • | • | • | • | • | | | | | | | |
| | 5.6 8.1 | 300psi Conceal. Pendent | Quick | ½ 15 | • | • | | | • | • | | | | | • | • | • | | | | • | • | • | • | • | | | | | | | |



ADJUSTABLE, CONCEALED, EXTENDED COVERAGE, LIGHT HAZARD

| Model | K-Factor | Deflector Type | Response | Nom. Thread Size | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | Sub. Pub. |
|-------------|-------------|-------------------|----------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|--------|----------------|-----|---------------|------------|--------|--------------|-------|----|-----|----|-----|------|-------|-----|-------|-----------|
| K8.0 | 8.0 11.5 | Concealed Pendent | Quick | ¾ 20 | • | • | | | • | • | | | | | • | • | | | | | • | • | • | • | • | | | | | | | 40.71 |



* UL Listed to 250psi, FM Approved to 175 psi.
 § For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.
 † Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.
 # Approved for use on sloped ceilings.
 ** Recessed pendent up to ½"/13 mm adjustment; For rooms 12 × 12 ft. to 20 × 20 ft./3.7 × 3.7 m to 6.1 × 6.1 m.
 *** Recessed pendent up to ¼"/6 mm adjustment; For rooms 12 × 12 ft. to 18 × 18 ft./3.7 × 3.7 m to 5.5 × 5.5 m.
 †† Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.
 All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.


FireLock® Sprinklers – Dry

Dry

Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. | |
|---------------|----------|----------------|----------|------------------|--------------------|----|--------------|--------------|--------------|--------------|--------------|--------------|-----------------------|---------------|---------------|------|-------------|--------|----------------|--------------------------|---------------|------------|--------|--------------|-------|----|-----------|-----|
| | | | | | In. (NPT) | mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | | ULC |

LIGHT HAZARD, ORDINARY HAZARD, STORAGE

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------|-------------|----------------------|----------|---------|-----|--|--|---|---|--|--|--|--|--|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|
| K5.6  | V3605 | 5.6 8.1 | Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | 40.60 | | | | |
| | V3605 | 5.6 8.1 | Recessed Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3605 | 5.6 8.1 | Intermediate Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3606 | 5.6 8.1 | Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3606 | 5.6 8.1 | Recessed Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3606 | 5.6 8.1 | Intermediate Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| K8.0  | V3607 | 8.0 11.5 | Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| | V3607 | 8.0 11.5 | Recessed Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| | V3607 | 8.0 11.5 | Intermediate Pendent | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3608 | 8.0 11.5 | Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3608 | 8.0 11.5 | Recessed Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| | V3608 | 8.0 11.5 | Intermediate Pendent | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| K5.6  | V3601 | 5.6 8.1 | Upright | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| | V3602 | 5.6 8.1 | Upright | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |
| K8.0  | V3603 | 8.0 11.5 | Upright | Standard | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | | |
| | V3604 | 8.0 11.5 | Upright | Quick | 1 25 | • • | | | • | • | | | | | | • | • | • | • | • | • | • | • | | | | | | | | | | | | | | | | | | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to 1/2"/13 mm adjustment; For rooms 12 × 12 ft. to 20 × 20 ft./3.7 × 3.7 m to 6.1 × 6.1 m.

*** Recessed pendent up to 1/4"/6 mm adjustment; For rooms 12 × 12 ft. to 18 × 18 ft./3.7 × 3.7 m to 5.5 × 5.5 m.

‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.






FireLock® Sprinklers – Dry

Dry

Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | | | | Coatings and Finishes | | | | | | | | Approvals and Listings † | | | | | | | Sub. Pub. |
|---------------|----------|----------------|----------|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-----------------------|--------|----------------|-----|---------------|------------|--------|--------------|--------------------------|----|-----|----|-----|------|-------|-----------|
| | | | | | In. (NPT) mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | c.ULus | UL | ULC | FM | Vds | LPCB | CNBOP | |

LIGHT HAZARD, ORDINARY HAZARD

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------------|-----------------------------|----------|---------|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|-------|
| K5.6  | V3609 | 5.6 8.1 | Horizontal Sidewall | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | 40.64 |
| | V3609 | 5.6 8.1 | Recessed Horiz. Sidewall | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V3610 | 5.6 8.1 | Horizontal Sidewall | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V3610 | 5.6 8.1 | Recessed Horiz. Sidewall | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K8.0  | V3611 | 8.0 11.5 | Horizontal Sidewall | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | 40.65 | | |
| | V3611 | 8.0 11.5 | Recessed Horiz. Sidewall | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V3612 | 8.0 11.5 | Horizontal Sidewall | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V3612 | 8.0 11.5 | Recessed Horiz. Sidewall | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K5.6  | V3617 | 5.6 8.1 | Concealed Pendent | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | 40.66 | | |
| | V3618 | 5.6 8.1 | Concealed Pendent | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K8.0  | V3619 | 8.0 11.5 | Concealed Pendent | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | 40.67 | | |
| | V3620 | 8.0 11.5 | Concealed Pendent | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K5.6 K8.0  | V3301 | 5.6 8.1 | Concealed Pendent | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | 40.68 | | |
| | V3302 | 5.6 8.1 | Concealed Pendent | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V3303 | 8.0 11.5 | Concealed Pendent | Standard | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | 40.69 | | |
| | V3304 | 8.0 11.5 | Concealed Pendent | Quick | 1 25 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to 1/2"/13 mm adjustment; For rooms 12 x 12 ft. to 20 x 20 ft./3.7 x 3.7 m to 6.1 x 6.1 m.

*** Recessed pendent up to 1/4"/6 mm adjustment; For rooms 12 x 12 ft. to 18 x 18 ft./3.7 x 3.7 m to 5.5 x 5.5 m.

‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.

FireLock® Sprinklers – Nozzles

Nozzles

Note: Sprinkler approvals and listings can vary by model, temperature and finish. For complete regulatory information, consult the product submittal publication.

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | Temperature Rating | | | | | | | | Coatings and Finishes | | | | | Approvals and Listings † | | | | | | Sub. Pub. | | | |
|---------------|----------|----------------|----------|------------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------------|---------------|------|-------------|--------|--------------------------|-----|---------------|------------|--------|--------------|-----------|-------|----|-----|
| | | | | | In. (NPT) mm | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | | cULus | UL | ULC |

WINDOW SPRINKLER

K1.4 – K11.5



| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | Sub. Pub. | |
|---------------|--------------|------------------|----------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|--------|----------------|-----|---------------|------------|--------|--------------|-------|----|-----|----|-----|------|-------|-----|-------|-----------|-------|
| V1001 | 1.4 2.0 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | | | | | | | | | | |
| V1003 | 2.0 2.9 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | |
| V1005 | 2.8 4.0 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | |
| V1007 | 4.2 5.9 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | 40.72 |
| V1009 | 5.6 8.1 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | |
| V1011 | 8.0 11.5 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | |
| V1013 | 11.5 16.3 | Window Sprinkler | Open | ½ 15 | | | | | | | | | | | • | • | • | | | | | | | • | • | | | | | | | | |

OPEN FOAM NOZZLES

K2.8



K5.6

| Model No./SIN | K-Factor | Deflector Type | Response | Nom. Thread Size | 135° F/57° C | 155° F/68° C | 162° F/72° C | 165° F/74° C | 175° F/79° C | 200° F/93° C | 212° F/100° C | 286° F/141° C | 360° F/182° C | OPEN | Plain Brass | Chrome | White or Cream | Wax | Nickel/Teflon | Flat Black | Custom | Bright White | cULus | UL | ULC | FM | VdS | LPCB | CNBOP | CCC | VNIPO | Sub. Pub. | |
|---------------|------------|----------------|----------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|------|-------------|--------|----------------|-----|---------------|------------|--------|--------------|-------|----|-----|----|-----|------|-------|-----|-------|-----------|--|
| V2601 | 2.8 4.0 | Foam Nozzle | Open | ½ 15 | | | | | | | | | | | • | • | | | | | | | | • | | | | | | | | | |
| V2603 | 5.6 8.1 | Foam Nozzle | Open | ½ 15 | | | | | | | | | | | • | • | | | | | | | | • | | | | | | | | | |

OPEN SPRAY NOZZLES

K1.2 – K7.2



125° MODEL SHOWN

| K-Factor | Imperial S.I. § | Model Numbers | | | | | | | | 110° | 95° | 80° | 65° |
|-------------|-----------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|
| | | Available Deflector Angles | | | | | | | | | | | |
| | | 180° | 160° | 140° | 125° | 110° | 95° | 80° | 65° | | | | |
| 1.2 1.7 | | V1201 | V1202 | V1203 | V1204 | V1205 | V1206 | V1207 | V1208 | | | | |
| 1.8 2.6 | | V1211 | V1212 | V1213 | V1214 | V1215 | V1216 | V1217 | V1218 | | | | |
| 2.3 3.3 | | V1221 | V1222 | V1223 | V1224 | V1225 | V1226 | V1227 | V1228 | | | | |
| 3.2 4.6 | | V1231 | V1232 | V1233 | V1234 | V1235 | V1236 | V1237 | V1238 | | | | |
| 4.1 5.9 | | V1241 | V1242 | V1243 | V1244 | V1245 | V1246 | V1247 | V1248 | | | | |
| 4.9 7.1 | | V1251 | V1252 | V1253 | V1254 | V1255 | V1256 | V1257 | V1258 | | | | |
| 5.6 8.1 | | V1261 | V1262 | V1263 | V1264 | V1265 | V1266 | V1267 | V1268 | | | | |
| 7.2 10.4 | | V1271 | V1272 | V1273 | V1274 | V1275 | V1276 | V1277 | V1278 | | | | |

* UL Listed to 250psi, FM Approved to 175 psi.

§ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

† Not all combinations of temperature ratings and wax finishes are Approved or Listed. Check specific submittals for combinations. V27 and V34 models are MEA (#62-99-E) and CSFM (#7690-0531.112) Approved.

Approved for use on sloped ceilings.

** Recessed pendent up to ½/13 mm adjustment; For rooms 12 × 12 ft. to 20 × 20 ft./3.7 × 3.7 m to 6.1 × 6.1 m.

*** Recessed pendent up to ¼/6 mm adjustment; For rooms 12 × 12 ft. to 18 × 18 ft./3.7 × 3.7 m to 5.5 × 5.5 m.

‡‡ Also available with Sealing Gasket for Clean Room Applications. Request publication 40.53.

All Victaulic sprinklers are available in British Standard Pipe Threads. Contact Victaulic for details.

FireLock® Automatic Sprinklers

Wrenches



| Wrench Type | Wrench Model | | | | | | | | | | | | | |
|-------------|--------------|-----------------------|-----------|-------------|-----------------|-------------|-----------|-----------|-----------|-------------|----------------------------|-----------|-----------|-----------|
| | Model V25 | Model V26 Foam Nozzle | Model V27 | Model V27-2 | Model V29 Flush | Model V29-1 | Model V33 | Model V34 | Model V36 | Model V38-4 | Model V38-5 Cabinet Socket | Model V39 | Model V44 | Model V46 |
| OPEN END | ● | ● | ● | | | | | ● | ● | | | | ● | ● |
| RECESSED | | | | ● | | | | ● | ● | | | | | |
| SOCKET | | | | | ● | ● | ● | | | ● | ● | | | |
| FLUSH | | | | | ● | ● | | | | | | | | |
| CONCEALED | | | | ● | | | ● | | ● | ● | ● | ● | | |

For Complete Information
Request Publication **40.80**

Accessories



SPRINKLER GUARDS

For Complete Information
Request Publication **40.83**



EXPANSION PLATE

For Complete Information
Request Publication **40.84**



ESCUTCHEONS

For Complete Information Request
Publication **40.88**



SPRINKLER STORAGE CABINET

For Complete Information
Request Publication **40.81**

Specialty Products

For special fire protection applications, Victaulic delivers a variety of piping product solutions. From plain end HDPE, stainless steel and carbon steel, to grooved AWWA size ductile iron, carbon steel and stainless steel piping, whatever your need Victaulic has a full line of products to make the installation faster, easier and more economical.



Pressfit® Piping Stainless Systems

The Pressfit system is a small diameter, quick-connect piping system solution that delivers speed, economy and reliability to building owners, contractors, and specifying engineers. Pressfit delivers real on-the-job pipe joining advantages to fitters and installers – benefits that you won't find in standard threaded, welded or flanged systems.

The Pressfit stainless system is ideal for a wide variety of applications requiring the corrosion-resistant properties of stainless steel. Pressfit integrates well with larger stainless steel piping systems, especially those designed with Victaulic grooved end products.

Pressfit products are also offered in carbon steel for fire protection systems. Pressfit products are not designed for use on metric size piping systems.

For Complete Information Request Publications [18.01](#) and [18.02](#)

Note: Pressfit products are available for imperial pipe sizes only.



Plain End Piping Systems

The Victaulic plain end piping method is ideal for maintenance and repairs as well as new system installation. Roust-A-Bout® couplings and plain end fittings are UL and ULC Listed for fire protection services.

Victaulic plain end couplings are primarily designed for use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel. No special pipe end preparation is necessary.

For Complete Information Request Publications [14.02](#) and [14.04](#)



HDPE Piping Systems

FM Approved for underground services, our HDPE couplings and flange adapters create a joint where the working pressure of the coupling meets or exceeds the rating of the pipe. Gripping teeth bite into the entire pipe circumference, and the joint is made secure by tightening down just four bolts and nuts.

For Complete Information Request Publications [19.02](#) – [19.04](#)

Specialty Products

Victaulic provides a variety of joining systems and materials for almost any fire protection application. Victaulic products are designed to meet the needs of the most demanding systems.

For the most up-to-date information on our specialty line of products please visit the Victaulic web site at www.victaulic.com.

PRODUCTS

- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex®
Sprinkler Fittings
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories
- 8-1 FireLock® Automatic
Devices and Accessories
- 9-1 FireLock
Automatic Sprinklers
- 10-1 Specialty Products**
- 11-1 Pipe Preparation Tools
- 12-1 Product Index



Copper Piping Systems

Grooved copper couplings, fittings and flange adapters designed for large diameter copper tubing, 2–8"/50–200mm. Table A and Y.

Copper couplings and fittings are UL/ULC Listed for fire protection services.

For Complete Information Request
Publications **22.01 – 22.13**

DIN Standard DIN 1786 and British Standard Table X and Y, see Submittal Publication **22.11**

For Australian Standard Tables A, B and D, see Submittal Publication **22.10**



Stainless Steel Piping Systems

For fast, economical joining of Schedule 5, 10, 20, and 40 stainless steel pipe, you will find a complete line of roll or cut grooved stainless mechanical pipe joining products from Victaulic.

For Complete Information Request
Publications **17.03 – 17.25**



AWWA Piping Systems for North America

Also ideal for underground services, our line of AWWA fittings and couplings easily transition from AWWA to IPS size pipe, and create secure joints with just two bolts versus the eight found in flanged systems.

AWWA fittings are UL/ULC Listed and FM Approved for underground fire protection services.

For Complete Information Request
Publications **23.01 – 23.09**

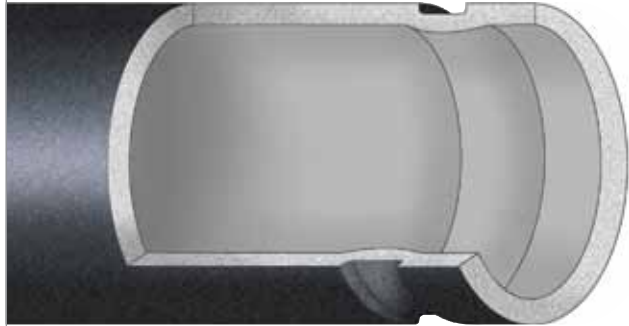
Pipe Preparation

Roll Groove

Victaulic was the first to develop roll grooving tools in the 1950's and continues to lead the industry in developing tools that make the job faster and easier to install.

Victaulic was the first company to receive approval for use of grooved pipe on fire protection systems.

Victaulic offers a variety of tools for pipe preparation, cutting holes, in-place repairs and system maintenance.



Roll groove shown on Schedule 40 steel pipe. The small dimple created on the interior pipe wall does not significantly affect pressure or flow.

Field Portable Roll Groovers

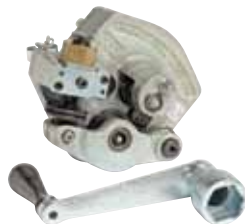
¾ – 2"
20 – 50 mm

VE12, PG. 11-3



2 – 6"
50 – 150 mm

VE26, PG. 11-3
POWER DRIVE KIT, PG. 11-3



3½ – 6"
90 – 150 mm

VE46, PG. 11-3
POWER DRIVE KIT, PG. 11-3



¾ – 6"
20 – 150 mm

VE226, PG. 11-3



Field Fabrication Roll Groovers

1¼ – 6"
32 – 150 mm

VE106, PG. 11-4



¾ – 12"
20 – 300 mm

VE270FSD, PG. 11-4



¾ – 12"
20 – 300 mm

VE272SFS, PG. 11-4



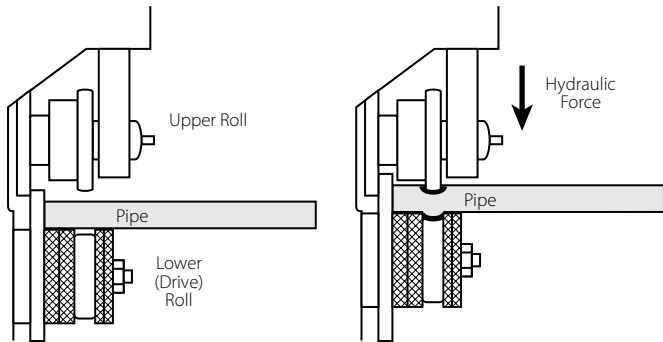
2 – 12"
50 – 300 mm

VE416SFD, PG. 11-4



Pipe Preparation

Roll Grooving Process



Vic-Easy® tools cold form groove into pipe – maintains dimensions

Roll grooving removes no metal from pipe

PRODUCTS

- 3-1 Couplings
- 4-1 Fittings
- 5-1 AquaFlex® Sprinkler Fittings
- 6-1 Hole Cut Piping System
- 7-1 Valves and Accessories
- 8-1 FireLock® Automatic Devices and Accessories
- 9-1 FireLock® Automatic Sprinklers
- 10-1 Specialty Products
- 11-1 Pipe Preparation Tools**
- 12-1 Product Index

Plant/Shop Fabrication Roll Groovers

¾ – 12"/20 – 300 mm

VE268, PG. 11-5



Pressfit® Tools

PFT505, PG. 11-5

PFT509, PG. 11-5

Available in North America only.



Hole Cutting Tools

HCT908, PG. 11-6

VHCT900, PG. 11-6

VIC-TAP® II, PG. 11-6



Accessories

Power Drive

VPD752, PG. 11-7



Adjustable Pipe Stands

¾ – 12"/20 – 300 mm

VAPS112, PG. 11-7

VAPS224, PG. 11-7



Pipe Diameter

"Go-No-Go" Tape

¾ – 24"/20 – 600 mm

PG. 11-7



Pipe Preparation

Field Portable

For Complete Information
Request Publication 24.01



VE12

VE12 GROOVE IN-PLACE

- For manual grooving of Schedule 5, 10 and 40 steel; stainless steel; aluminum and PVC pipe
- Enhanced tracking rolls allow bi-directional grooving
- Roll grooves $\frac{3}{4}$ –2"/20–50mm pipe †

Power Requirements: None

Weight: 17 lbs./8 kg



VE26

VE26 GROOVE IN-PLACE

- Repair and retrofit existing lightwall steel, Schedule 40 steel, stainless steel, PVC, and aluminum
- Patented enhanced tracking rolls allow bi-directional grooving
- Model VE26C handles copper tubing (CTS) Types K, L, M and DWV plus British, DIN, and Australian Standard copper
- Model VE26SS grooves Schedule 5 and 10 stainless steel
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 power drive or VPD752
- Roll grooves 2–6"/50–150mm pipe †

Power Requirements: None

Weight: 22 lbs./10 kg

VE26/46 Power Drive Kit



The VE26/46 power drive kit is available to allow both tools to be directly mounted to either a Victaulic VPD752 or Ridgid* 300 Power Drive.



VE46

VE46 GROOVE IN-PLACE

- Designed for manually roll grooving Schedule 40 steel, aluminum, stainless steel and PVC pipe and Schedule 80 PVC pipe
- Patented enhanced tracking rolls allow bi-directional grooving and reduce pipe "walk-off"
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 power drive or VPD752
- Roll grooves $3\frac{1}{2}$ –6"/90–150mm pipe †

Power Requirements: None

Weight: 28 lbs./13 kg



VE226

VE226 portable groover

- Mounts to a Victaulic VPD752 or Ridgid* 300 power drive
- Optional alternate bases available
- Tool is operated using a standard $\frac{3}{8}$ "/9.5 mm square ratchet drive (not included)
- Available in six models for steel (and other IPS) pipe, copper tubing and stainless steel
- Roll grooves $\frac{3}{4}$ – 6"/20 – 150 mm pipe †

Drive Requirements: Fits Victaulic VPD752 or Ridgid 300 power drives.

Optional bases for Ridgid 535, 1224, 1822, and Oster 310 available.

Contact Victaulic for others.

Weight: 37 lbs./17 kg

† Refer to Roll Grooving Tool Ratings chart on pg. 11-8.

* Ridgid is a registered trademark of the Ridge Tool Company.

Pipe Preparation

Field Fabrication

For Complete Information
Request Publication 24.01



VE106

VE106 GROOVE-N-GO

- Mobile light-duty roll grooving tool with an integral motor/drive unit mounted to portable hand truck
- $\frac{3}{8}$ "/9.5mm square ratchet drive for operation (standard)
- Patented enhanced tracking rolls reduce pipe "walk-off"
- Completely self-contained unit with an integral motor, safety foot switch and power plug
- Roll grooves $1\frac{1}{4}$ – $6\frac{1}{32}$ –150mm pipe[†]

Power Requirements: VE106 is provided with 110volt, 15amp power.

Weight: 140lbs./64kg

Optional Accessories: Additional rolls/shafts are available for copper, lightwall stainless steel, and EndSeal (ES) grooving.



VE270FSD

VE270FSD

- Completely self-contained unit with integral gear motor, safety guards, safety foot switch and power cord/plug
- Equipped with a unique pivot arm design, making roll changing quick and easy, without removing shafts
- Patented enhanced tracking rolls reduce pipe "walk-off"
- Roll grooves $\frac{3}{4}$ – $12\frac{1}{20}$ –300mm pipe[†]

Drive Requirements: Self-contained

Power Requirements: VE270FSD is provided with 110volt, 15amp power.

Weight: 340lbs./154kg

Optional Rolls: Carbon steel Schedules 5, 10, 20, and 40; copper rolls for type K, L, M and DWV; and stainless steel Rx rolls for Schedules 5S-10-10S.

Optional Accessories: An optional pipe stabilizer for 8– $12\frac{1}{200}$ –300mm pipe is available.



VE272SFS

VE272SFS

- Portable roll groover mounts easily to the Victaulic VPD752 or Ridgid 300 power drive
- Hand pump operation with a unique pivot arm design reduces handle effort
- Patented enhanced tracking rolls reduce pipe "walk-off"
- Roll grooves $\frac{3}{4}$ – $12\frac{1}{20}$ –300mm pipe[†]

Power Requirements: Victaulic VPD752 or Ridgid 300 power drive

Weight: 184lbs./84kg

Optional Rolls: Optional rolls are available for copper tubing; Schedule 5S, 10S, and 10 stainless steel pipe; and EndSeal (ES) grooving.



VE416FSD

VE416FSD

- For field roll grooving of 2– $16\frac{1}{50}$ –400mm standard wall pipe, lightwall steel pipe, as well as aluminum, stainless and PVC plastic pipe
- Equipped with a pipe stabilizer for 6– $16\frac{1}{150}$ –400mm pipe sizes to control pipe sway
- Groove depth adjuster provides precise groove dimensions and allows for easy adjustment for initial groove diameter
- Completely self-contained units with integral gear motors, safety foot switch and power cord/plug
- Roll grooves 2– $16\frac{1}{50}$ –400mm pipe[†]

Power Requirements: 110volt, 15amp for integral gear motor (220volt, 8amp model available)

Weight: 340lbs./154kg

Optional Rolls: Optional rolls are available for drawn copper tubing; Schedule 80 PVC pipe; stainless steel Rx Schedules 5S, 10 and 10S; and EndSeal (ES) grooving. Roll sets also available for 14– $16\frac{1}{350}$ –400mm std. wall carbon steel pipe for use with the AGS system.

[†] Refer to Roll Grooving Tool Ratings chart on pg. 11-8.

Pipe Preparation

Plant/Shop
Fabrication

For Complete Information
Request Publication 24.01



VE268

VE268

- Designed for fabrication shop roll grooving
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Equipped with a unique pivot arm design, making roll changes quick and easy, without removing shafts
- Patented enhanced tracking rolls reduce pipe "walk-off"
- Roll grooves $\frac{3}{4}$ –12"/20–300mm pipe†

Drive Requirements: Self-contained

Weight: 735lbs./333kg

Optional Rolls: Optional rolls are available for carbon steel Schedules 5, 10, and 40; copper rolls for type K, L, M and DWV; and stainless steel Rx rolls for Schedules 5S, 10, and 10S.

Optional Accessories: An optional pipe stabilizer for 8–12"/200–300mm pipe is available.

Pressfit® Tool

For Complete Information
Request Publication 24.01



PFT505



PFT505*

- The Pressfit System requires a Pressfit tool designed for securing Pressfit products onto pipe
- Jaws are available separately for rental or purchase
- Pressfit® tool is designed for industrial and trade use only

Capacity: $\frac{1}{2}$ –2"/15–50mm IPS Schedule 5 steel and stainless steel pipe

Power Requirements: 110volt, 60cycle, 6.5amp

Accessories: Pressing Jaws in $\frac{1}{2}$ "/15mm, $\frac{3}{4}$ "/20mm, 1"/25mm, 1 $\frac{1}{2}$ "/40mm and 2"/50mm

Note: PFT505 and PFT509 components are not interchangeable



PFT509

PFT509*

- The Pressfit System requires a Pressfit tool designed for securing Pressfit products onto pipe
- Tool packages include the actual pressing tool, two (2) batteries and a charger, carrying case, and $\frac{1}{2}$ "/15mm, $\frac{3}{4}$ "/20mm, 1"/25mm and 1 $\frac{1}{2}$ "/40mm press jaws
- Jaws are available separately for purchase
- Pressfit® tool is designed for industrial and trade use only
- Pressfit® tool is battery powered and requires a 12V battery charger

Capacity: $\frac{1}{2}$ –1" and 1 $\frac{1}{2}$ "/15–25mm and 40mm IPS Schedule 5 steel and stainless steel pipe

Power Requirements: 110volt, 60cycle, 6.5amp

Note: PFT505 and PFT509 components are not interchangeable

† Refer to Roll Grooving Tool Ratings chart on pg. 11-8.

* Available in North America only.

Pipe Preparation

Hole Cutting Tools

For Complete Information
Request Publication 24.01



HCT908

HCT908

- One-piece hole cutting tool designed to cut holes up to 4 1/2"/120mm in carbon and stainless steel pipe with OD up to 8"/200mm
- Allows for use of Mechanical-T®, Vic-Let™, and Vic-O-Well outlets

Capacity: 1–4 1/2"/25–120 mm holes for 1/2–4"/15–100 mm Mechanical-T, and Vic-Let connections

Power Requirements: 110volt, 1 phase, 60 Hz, 7.0 amp

Weight: 23 lbs./10 kg



VHCT900

VHCT900

- Three-piece hole cutting tool designed to cut holes up to 3 1/2"/90 mm in diameter for Mechanical-T, Vic-Let, and Vic-O-Well outlets
- Base unit clamps quickly onto the pipe in vertical, horizontal or overhead positions
- Heavy-duty drill mounts to the alignment guides and a manual feed assembly provides uniform pressure on the saw for maximum cutting efficiency

Capacity: 1–3 1/2"/25–90 mm holes for 1/2–3"/15–80 mm Mechanical-T, Vic-Let connections

Power Requirements: grounded 120 volt, 1 phase, 60 Hz, 10 amp electrical supply.
(220 volt, 1 phase, 60 Hz, 5 amp available on request)

Weight: 36 lbs./16 kg

Accessories: Extended chain for 10–24"/250–600 mm pipe



VIC-TAP II

- Hole cutting tool designed for use with Style 931 Vic-Tap II Mechanical-T unit for tapping into steel pipe systems under pressures up to 500 psi/3450 kPa

Capacity: Vic-Tap II 4 – 8"/100 – 200 mm Run x 2 1/2"/65 mm (IPS) Outlet

Power Requirements: 115 volt, 1 phase, 60 Hz, 7.5 amp

Weight:

(A) Drill guide base 15 lbs./6.8 kg

(B) Drill motor and feed assembly, total wgt. 16 lbs./7.3 kg

(C) Style 931/Valve unit, 12 lb./5.4 kg – 15 lb./6.8 kg, depending upon size
(4, 5, 6 and 8"/100, 125, 150 and 200 mm available)

Hole Size: 2 3/8"/60.5 mm

Pipe Preparation

Power Drive

VPD752

For Complete Information
Request Publication 24.01



- Can be used as the power drive unit for the VE26, VE46, VE226 and VE272SFS roll grooving tools, provided the tool is equipped with the correct base plate
- Operated with a safety foot switch

Capacity: See appropriate tool

Power Requirements: VPD752 is provided with 115 volts, 15 amp power, 50/60 Hz.

Weight: 140 lbs./634 kg

Adjustable Pipe Stand

VAPS112

For Complete Information
Request Publication 24.01



- Designed for supporting pipe to be roll grooved
- Four legged portable self-standing unit permits free pipe rotation and traversing on ball transfers
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand

Capacity: $\frac{3}{4}$ –12"/20–300 mm IPS pipe

Load Rating: 1075 lbs./490 kg

Vertical Stroke: 14 $\frac{1}{2}$ "/368 mm for adjusting rod, 8 $\frac{1}{2}$ "/216 mm leg adjustment, 23"/584 mm

Minimum Pipe Height from Floor:

23"/584 mm on 12"/300 mm pipe

21"/533 mm on 1"/25 mm pipe

Weight: 190 lbs./86 kg

Handle Effort Required to Raise 1075 lbs./490 kg Load: 50 lbs./23 kg maximum

Adjustable Pipe Stand

VAPS224

For Complete Information
Request Publication 24.01



- Designed specifically for supporting pipe to be roll grooved
- Self-standing heavy-duty unit permits free pipe rotation and traversing on ball transfers
- Ball transfers are mounted in a manner permitting use of pipe slings
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand

Capacity: 2–24"/50–600 mm IPS pipe

Load Rating: 1800 lbs./816 kg

Vertical Stroke: 23"/584 mm

Minimum Pipe Height from Floor: 13"/325 mm on 24"/600 mm IPS pipe

Maximum Pipe Height from Floor: 38"/965 mm on 2"/50 mm IPS pipe

Weight: 260 lbs./118 kg

Handle Effort Required to Raise 1800 lbs./817 kg Load: 50 lbs./23 kg maximum

Pipe Diameter Tape

For Complete Information
Request Publication 24.01



- Pocket-sized steel tapes are available for taking circumferential measurements, marked in 1/100^{ths} of an inch increments
- Tapes may be used for measuring $\frac{3}{4}$ –22"/20–550 mm pipe O.D. at the base of the groove (the "C" diameter)
- Tapes are notched on the lead end to allow proper overlap within the groove for more accurate measurement

Pipe Preparation

Vic-Easy® Roll Grooving Tool Ratings

(MAXIMUM CAPACITY)

Victaulic Vic-Easy roll grooving tools are designed to cold form grooves into the specified pipe to meet piping standards and groove dimensions specified in Victaulic Groove Specifications for each type of pipe.

These tools are designed for roll grooving pipe. To accomplish this function requires some dexterity and mechanical skills, as well as sound safety habits. Although tools are manufactured for safe dependable operation, it is impossible to anticipate those combinations of circumstances which could result in an accident. The operator is cautioned to always practice "Safety First" during each phase of use, including setup and maintenance of these units.

Read and understand the Tool Operating and Maintenance Instruction Manual provided with each tool before operating or performing maintenance on tools. Become familiar with the tool's operations, applications and limitations. Be particularly aware of its specific hazards.

Note: Vic-Easy tools and rolls shown on this chart will produce grooves in accordance with Victaulic Roll Groove Dimension charts and to ANSI/AWWA C-606 standards.

| Tool Model | Pipe Material | Pipe Size/Schedule Inches/mm | | | | | | | | | | | | | | |
|--------------------------|---------------|------------------------------|------|--------|-------|-----------------------------|-------|------|-------|-------|--------|-------|-------|---------------------|--------|--------|
| | | ¾ 20 | 1 25 | 1¼ 32 | 1½ 40 | 2 50 | 2½ 65 | 3 80 | 3½ 90 | 4 100 | 4½ 120 | 5 125 | 6 150 | 8 200 | 10 250 | 12 300 |
| VE12 | Steel | 5, 10 | | 5 – 40 | | | | | | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE26S | Steel | | | | | 5 – 40 | | | 5, 10 | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE26C | Copper | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | | | | | |
| VE26SS | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| VE46 | Steel | | | | | 5 – 40 | | | 5, 10 | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE226S | Steel | | | | | 5 – 40 | | | 5, 10 | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE226B | Steel | 5 – 40 | | | | | | | | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE226M | Steel | | | | | 5 – 40 | | | 5, 10 | | | | | | | |
| | Stainless | 40S only | | | | | | | | | | | | | | |
| VE226C | Copper | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | | | | | |
| VE226BSS | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| VE226MSS | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| VE106 | Steel | | | | | 5 – 40 Standard Rolls § | | | | | | | | | | |
| | Stainless | | | | | 40S Standard Rolls § | | | | | | | | | | |
| | Lt. Wall SS | | | | | 5S, 10S Rx Rolls # | | | | | | | | | | |
| | Copper | | | | | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | |
| VE270FSD | Steel | 5 – 40S Standard Rolls § | | | | | | | | | | | | 5 – 20 Std. | | |
| | Stainless | 40S Standard Rolls § | | | | | | | | | | | | | | |
| | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| | Copper | | | | | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | |
| VE272SFS | Steel | 5 – 40S Standard Rolls § | | | | | | | | | | | | 5 – 20 Std. | | |
| | Stainless | 40S Standard Rolls § | | | | | | | | | | | | | | |
| | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| | Copper | | | | | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | |
| VE416FSD Standard Groove | Steel | 5 – 40S Standard Rolls § | | | | | | | | | | | | 5-Std. Wall** | | |
| | Stainless | 40S Standard Rolls § | | | | | | | | | | | | Std. Wall Only** | | |
| | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| | Copper | | | | | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | |
| VE268 | Steel | 5 – 40S Standard Rolls § | | | | | | | | | | | | 5 – 20 Std. Rolls § | | |
| | Stainless | | | | | 5 – 40S Standard Rolls § | | | | | | | | | | |
| | Lt. Wall SS | 5S, 10S Rx Rolls # | | | | | | | | | | | | | | |
| | Copper | | | | | K, L, M, DWV Copper Rolls ‡ | | | | | | | | | | |

@ Does not apply to 6"/150mm Schedule 40 size.

* 2"/50mm Schedule 80 with RP rolls.

Rx Rolls – "Rx" is the Victaulic part code designator for grooving roll sets specifically designed for roll grooving lightwall stainless steel pipe.

‡ Alternate units are available for European Standard (EN) 1057 and Australian Standard Copper.

§ Standard Rolls – This is the Victaulic designation for grooving roll sets used primarily for steel pipe. Also used for Schedule 40S stainless steel pipe.

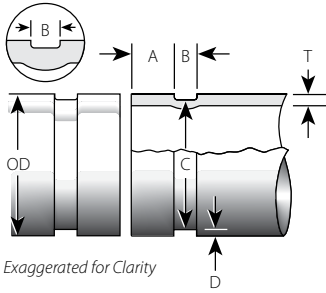
** Standard Wall (0.375"/9.5mm)

Pipe Preparation

Groove Dimensions

ROLL GROOVE SPECIFICATIONS NOTES

For Complete Information Request Publication **25.01**



GROOVE DIMENSION NOTES:

Column 1: Nominal IPS Pipe Size

Column 2: IPS Pipe Outside Diameter

The average pipe outside diameter must not vary from the specifications listed in the tables on the following pages. Maximum allowable pipe ovality should not vary by more than 1%. Greater variations between the major and minor diameters will result in difficult coupling assembly. For IPS pipe, the maximum allowable tolerance from square-cut pipe ends is 0.030"/0.8 mm for 3/4" - 3 1/2"/20" - 90 mm sizes; 0.045"/1.1 mm for 4" - 6"/100" - 150 mm sizes; and 0.060"/1.5 mm for 8"/200 mm and larger sizes. This is measured from the true square line. Any internal and external weld beads or seams must be ground flush to the pipe surface. The inside diameter of the pipe end must be cleaned to remove coarse scale, dirt, and other foreign material that might interfere with or damage grooving rolls.

Column 3: Gasket Seat "A" Dimension

The "A" dimension, or the distance from the pipe end to the groove, identifies the gasket seating area. This area must be free from indentations, projections (including weld seams), and roll marks from the pipe end to the groove to ensure a leak-tight seal for the gasket. All oil, grease, and dirt must be removed.

Column 4: Groove Width "B" Dimension

The "B" dimension, or groove width, controls expansion, contraction, and angular deflection of flexible couplings by the distance it is located from the pipe and its width in relation to the coupling housings' "key" width.

Column 5: Groove Outside Diameter "C" Dimension

The "C" dimension is the proper diameter at the base of the groove. This dimension must be within the diameter's tolerance and concentric with the OD for proper coupling fit. The groove must be of uniform depth for the entire pipe circumference.

Column 6: Groove Depth "D" Dimension

The "D" dimension is the normal depth of the groove and is a reference for a "trial groove" only. Variations in pipe OD affect this dimension and must be altered, if necessary, to keep the "C" dimension within tolerance. This groove must conform to the "C" dimension described above.

Column 7: Minimum Allowable Wall Thickness "T" Dimension

The "T" dimension is the lightest grade (minimum, nominal wall thickness) of pipe that is suitable for cut or roll grooving. Pipe that is less than the minimum, nominal wall thickness for cut grooving may be roll grooved or adapted for Victaulic couplings by using Vic-Ring adapters. Vic-Ring adapters can be used in the following situations (contact Victaulic Company for details):

- When the pipe is less than the minimum, nominal wall thickness suitable for roll grooving
- When the pipe outside diameter is too large to roll or cut groove
- When the pipe is used in abrasive services

Column 8: Maximum Allowable Pipe-End Flare Diameter "F" Dimension (Standard Roll Groove Only)

Maximum allowable pipe-end flare diameter is measured at the extreme pipe-end diameter.

STANDARD ROLL GROOVE SPECIFICATIONS - STEEL AND OTHER IPS PIPE @ †

| 1 Nominal Size Inches mm | 2 Dimensions - Inches/mm | | | | | | | | | |
|-----------------------------------|-----------------------------|---------------------|-----------------|--------------------------------------|-------------------------------------|-------------------|-------------------------|---------------------------|----------------------------------|----------------------------------|
| | Pipe Outside Diameter O.D. | | | A Gasket Seat ± 0.03 ± 0.76 | B Grv. Width ± 0.03 ± 0.76 | Groove Diameter C | | D Groove Depth ref. | T Minimum Allow. Wall Thk. | Maximum Allow. Flare Diameter |
| | Basic | Tolerance + - | | | | Basic | Tol. +0.000 +0.00 | | | |
| 3/4 20 | 1.050 26.9 | +0.010 +0.25 | -0.010 -0.25 | 0.625 15.88 | 0.281 7.14 | 0.938 23.83 | -0.015 -0.38 | 0.056 1.42 | 0.065 1.65 | 1.15 29.2 |
| 1 25 | 1.315 33.7 | +0.013 +0.33 | -0.013 -0.33 | 0.625 15.88 | 0.281 7.14 | 1.190 30.23 | -0.015 -0.38 | 0.063 1.60 | 0.065 1.65 | 1.43 36.3 |
| 1 1/4 32 | 1.660 42.4 | +0.016 +0.41 | -0.016 -0.41 | 0.625 15.88 | 0.281 7.14 | 1.535 38.99 | -0.015 -0.38 | 0.063 1.60 | 0.065 1.65 | 1.77 45.0 |
| 1 1/2 40 | 1.900 48.3 | +0.019 +0.48 | -0.019 -0.48 | 0.625 15.88 | 0.281 7.14 | 1.775 45.09 | -0.015 -0.38 | 0.063 1.60 | 0.065 1.65 | 2.01 51.1 |
| 2 50 | 2.375 60.3 | +0.024 +0.61 | -0.024 -0.61 | 0.625 15.88 | 0.344 8.74 | 2.250 57.15 | -0.015 -0.38 | 0.063 1.60 | 0.065 1.65 | 2.48 63.0 |
| 2 1/2 65 | 2.875 73.0 | +0.029 +0.74 | -0.029 -0.74 | 0.625 15.88 | 0.344 8.74 | 2.720 69.09 | -0.018 -0.46 | 0.078 1.98 | 0.083 2.11 | 2.98 75.7 |
| 76.1 mm | 3.000 76.1 | +0.030 +0.76 | -0.030 -0.76 | 0.625 15.88 | 0.344 8.74 | 2.845 72.26 | -0.018 -0.46 | 0.078 1.98 | 0.083 2.11 | 3.10 78.7 |
| 3 80 | 3.500 88.9 | +0.035 +0.89 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 3.344 84.94 | -0.018 -0.46 | 0.078 1.98 | 0.083 2.11 | 3.60 91.4 |
| 3 1/2 90 | 4.000 101.6 | +0.040 +1.02 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 3.834 97.38 | -0.020 -0.51 | 0.083 2.11 | 0.083 2.11 | 4.10 104.1 |
| 4 100 | 4.500 114.3 | +0.045 +1.14 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 4.334 110.08 | -0.020 -0.51 | 0.083 2.11 | 0.083 2.11 | 4.60 116.8 |
| 108.0 mm | 4.250 108.0 | +0.043 +1.09 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 4.084 103.73 | -0.020 -0.51 | 0.083 2.11 | 0.083 2.11 | 4.35 110.5 |
| 4 1/2 120 | 5.000 127.0 | +0.050 +1.27 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 4.834 122.78 | -0.020 -0.51 | 0.083 2.11 | 0.095 2.41 | 5.10 129.5 |
| 5 125 | 5.563 141.3 | +0.056 +1.42 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 5.395 137.03 | -0.022 -0.56 | 0.084 2.13 | 0.109 2.77 | 5.66 143.8 |
| 133.0 mm | 5.250 133.0 | +0.053 +1.35 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 5.084 129.13 | -0.020 -0.51 | 0.083 2.11 | 0.109 2.77 | 5.35 135.9 |
| 139.7 mm | 5.500 139.7 | +0.056 +1.42 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 5.334 135.48 | -0.020 -0.51 | 0.083 2.11 | 0.109 2.77 | 5.60 142.2 |
| 6 150 | 6.625 168.3 | +0.063 +1.60 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 6.455 163.96 | -0.022 0.56 | 0.085 2.16 | 0.109 2.77 | 6.73 170.9 |
| 152.4 mm | 6.000 152.4 | +0.056 +1.42 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 5.830 148.08 | -0.022 -0.56 | 0.085 2.16 | 0.109 2.77 | 6.10 154.9 |
| 159.0 mm | 6.250 159.0 | +0.063 +1.60 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 6.032 153.21 | -0.030 -0.46 | 0.109 2.77 | 0.109 2.77 | 6.35 161.3 |
| 165.1 mm | 6.500 165.1 | +0.063 +1.60 | -0.031 -0.79 | 0.625 15.88 | 0.344 8.74 | 6.330 160.78 | -0.022 -0.56 | 0.085 2.16 | 0.109 2.77 | 6.60 167.6 |
| 8 200 | 8.625 219.1 | +0.063 +1.60 | -0.031 -0.79 | 0.750 19.05 | 0.469 11.91 | 8.441 214.40 | -0.025 -0.64 | 0.092 2.34 | 0.109 2.77 | 8.80 223.5 |
| 203.2 mm | 8.000 203.2 | +0.063 +1.60 | -0.031 -0.79 | 0.750 19.05 | 0.469 11.91 | 7.816 198.53 | -0.025 -0.64 | 0.092 2.34 | 0.109 2.77 | 8.17 207.5 |
| 10 250 | 10.750 273.0 | +0.063 +1.60 | -0.031 -0.79 | 0.750 19.05 | 0.469 11.91 | 10.562 268.28 | -0.027 -0.69 | 0.094 2.39 | 0.134 3.40 | 10.92 277.4 |
| 254.0 mm | 10.000 254.0 | +0.063 +1.60 | -0.031 -0.79 | 0.750 19.05 | 0.469 11.91 | 9.812 249.23 | -0.027 -0.69 | 0.094 2.39 | 0.134 3.40 | 10.17 258.3 |
| 12 300 | 12.750 323.9 | +0.063 +1.60 | -0.031 -0.79 | 0.750 19.05 | 0.469 11.91 | 12.531 318.29 | -0.030 -0.76 | 0.109 2.77 | 0.156 3.96 | 12.92 328.2 |

@ Always refer to the I-100 handbook for current grooving specifications.

† On roll grooved pipe, Allowable Pipe End Separation and Deflection from center line will be 1/2 values listed for cut grooved pipe.

IMPORTANT NOTES:

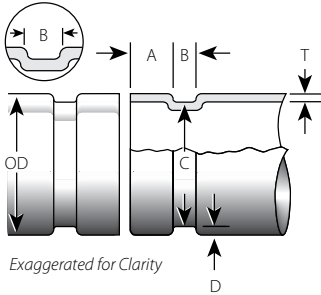
Coatings applied to the interior surfaces, including bolt pad mating surfaces, of our grooved and bolted plain end couplings should not exceed 0.010"/0.25 mm. Also, the coating thickness applied to the gasket seating surface and within the groove on the pipe exterior should not exceed 0.010"/0.25 mm.

Pipe Preparation

Groove Dimensions

COPPER TUBING ROLL GROOVE SPECIFICATIONS NOTES

For Complete Information
Request Publication **25.01**



COPPER TUBING ROLL GROOVE SPECIFICATIONS @

| 1 Nominal Size Inches mm | 2 Actual Outer Diameter | | 3 A Gasket Seat ± 0.03 ± 0.76 | 4 B Grv. Width +0.03/-0.00 -0.76/-0.00 | 5 C Grv. Diameter +0/-0.020 +0/-0.5 | 6 D Groove Depth ref. | 7 T Minimum Allow. Wall Thick. | 8 Maximum Allow. Flare Diameter |
|-----------------------------------|----------------------------|------------------------------|---|--|---|-----------------------------------|--|---|
| | Basic Inches mm | Tolerance Inches mm | | | | | | |
| 2 50 | 2.125 54.0 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 2.209 51.5 | 0.048 1.2 | DWV | 2.220 56.4 |
| 2½ 65 | 2.625 66.7 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 2.525 64.1 | 0.050 1.2 | 0.065 1.7 | 2.720 69.1 |
| 3 80 | 3.125 79.4 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 3.025 76.8 | 0.050 1.2 | DWV | 3.220 81.8 |
| 4 100 | 4.125 104.8 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 4.019 102.1 | 0.053 1.4 | DWV | 4.220 107.2 |
| 5 125 | 5.125 130.2 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 4.999 127.0 | 0.053 1.4 | DWV | 5.220 132.6 |
| 6 150 | 6.125 155.6 | ±0.002 ±0.05 | 0.610 15.5 | 0.300 7.6 | 5.999 152.3 | 0.063 1.6 | DWV | 6.220 158.0 |
| 8 200 | 8.125 206.4 | ±0.002/-0.004 ±0.05/-0.10 | 0.610 15.5 | 0.300 7.6 | 7.959 202.2 | 0.083 2.1 | DWV | 8.220 208.8 |

@ Always refer to the I-600 handbook for current grooving specifications.

GROOVE DIMENSION NOTES:

Column 1: Nominal ASTM B-88 drawn copper tubing size as indicated in the chart heading

Column 2: Outside Diameter

The outside diameter of roll grooved tubing shall not vary more than the tolerance listed. The maximum allowable tolerance from square cut ends is 0.030"/0.8 mm for 2–3"/50–80 mm; 0.045"/1.1 mm for 4–6"/100–150 mm, measured from true square line.

Column 3: Gasket Seat

The tubing surface shall be free from indentations, roll marks, and projections from the end of the tubing to the groove, to provide a leak-tight seat for the gasket. All loose scales, dirt, chips and grease must be removed.

Column 4: Groove Width

Bottom of groove to be free of loose dirt, chips and scale that may interfere with proper coupling assembly.

Column 5: Groove Outside Diameter

The groove must be uniform depth for the entire tubing circumference. Groove must be maintained within the "C" diameter tolerance listed.

Column 6: Groove Depth

For reference only. Groove must conform to the groove diameter "C" listed.

Column 7: Minimum Allowable Wall Thickness "T" Dimension

ASTM B-306 drain waste and vent (DWV) is minimum wall thickness copper tubing which may be roll grooved. In Australia, Victaulic products can connect CN 50, Tables A, B and D pipe.

Column 8: Maximum Allowable End Flare Diameter

Measured at the most extreme tubing end diameter.

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| V2704 | K 5.6, ½" NPT | Upright | Quick | 9-5 | 40.10 |
| V2708 | K 5.6, ½" NPT | Pendent/Recessed Pendent | Quick | 9-5 | 40.10 |
| V2709 | K 5.6, ½" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Standard | 9-5 | 40.11 |
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| V3405 | K 8.0, ¾" NPT | Pendent/Recessed Pendent | Standard | 9-5 | 40.15 |
| V3402 | K 8.0, ¾" NPT | Upright | Quick | 9-5 | 40.15 |
| V3406 | K 8.0, ¾" NPT | Pendent/Recessed Pendent | Quick | 9-5 | 40.15 |
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| V3410 | K 8.0, ¾" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-5 | 40.16 |
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| V4603 | K 25.2, 1" NPT (LP-46) | Upright | Standard | 9-7 | 40.98 |
| V4402 | K 14.0, ¾" NPT (ESFR) | Pendent | Fast | 9-7 | 40.82 |
| V4404 | K 16.8, ¾" NPT (ESFR) | Pendent | Fast | 9-7 | 40.86 |
| V3407 | K 11.2, ¾" NPT | Pendent | Standard | 9-7 | 40.20 |
| V3403 | K 11.2, ¾" NPT | Upright | Standard | 9-7 | 40.20 |
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| V3404 | K 11.2, ¾" NPT | Upright | Quick | 9-7 | 40.20 |
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| V2724 | K 5.6, ½" NPT | Pendent | Quick | 9-7 | 40.22 |
| V2722 | K 5.6, ½" NPT | Upright | Quick | 9-7 | 40.22 |
| V3419 | K 8.0, ¾" NPT | Pendent | Standard | 9-7 | 40.23 |
| V3417 | K 8.0, ¾" NPT | Upright | Standard | 9-7 | 40.23 |
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| V3418 | K 8.0, ¾" NPT | Upright | Quick | 9-7 | 40.23 |
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| V3412 | K 11.2, ¾" NPT (ECLH) | Pendent/Recessed Pendent | Quick | 9-8 | 40.30 |
| V3413 | K 14.0, ¾" NPT (ECLH) | Pendent/Recessed Pendent | Standard | 9-8 | 40.31 |
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| EXTENDED COVERAGE (CONTINUED) | | | | | |
| V3414 | K 14.0, ¾" NPT (ECLH) | Pendent/Recessed Pendent | Quick | 9-8 | 40.31 |
| V3415 | K 8.0, ¾" NPT (ECLH) | Horizontal Sidewall/Recessed Horizontal Sidewall | Standard | 9-8 | 40.33 |
| V3416 | K 8.0, ¾" NPT (ECLH) | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-8 | 40.33 |
| V3421 | K 14.0, ¾" NPT (ECOH) | Pendent/Recessed Pendent | Standard | 9-8 | 40.34 |
| RESIDENTIAL | | | | | |
| V2738 | K 4.2, ½" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-9 | 40.54 |
| V2730 | K 4.9, ½" NPT | Pendent/Recessed Pendent | Quick | 9-9 | 40.41 |
| V2732 | K 4.9, ½" NPT | Pendent/Recessed Pendent | Quick | 9-9 | 40.41 |
| V2734 | K 4.9, ½" NPT | Concealed Pendent | Quick | 9-9 | 40.42 |
| V2736 | K 4.9, ½" NPT | Concealed Pendent | Quick | 9-9 | 40.42 |
| V2740 | K 4.9, ½" NPT | Pendent/Recessed Pendent | Quick | 9-9 | 40.47 |
| V2742 | K 4.9, ½" NPT | Concealed Pendent | Quick | 9-9 | 40.52 |
| V2744 | K 5.6, ½" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-9 | 40.49 |
| V3426 | K 6.9, ¾" NPT | Pendent/Recessed Pendent | Quick | 9-9 | 40.48 |
| V3806 | K 5.6, ½" NPT | Concealed Pendent | Quick | 9-9 | 40.43 |
| DECORATIVE | | | | | |
| V2902 | K 4.1, ½" NPT | Pendent | Quick | 9-10 | 40.44 |
| V3801 | K 5.6, ½" NPT | Adjustable Concealed Pendent and Cover Plate | Standard | 9-10 | 40.50 |
| V3807 | K 5.6, ½" 300psi | Adjustable Concealed Pendent and Cover Plate | Standard | 9-10 | 40.55 |
| V3808 | K 5.6, ½" 300psi | Adjustable Concealed Pendent and Cover Plate | Quick | 9-10 | 40.55 |
| V3802 | K 5.6, ½" NPT | Adjustable Concealed Pendent and Cover Plate | Quick | 9-10 | 40.50 |
| V3904 | K 8.0, ¾" NPT (ECLH) | Adjustable Concealed Pendent | Quick | 9-10 | 40.71 |
| DRY | | | | | |
| V3605 | K 5.6, 1" NPT | Pendent/Recessed Pendent/Intermediate Pendent | Standard | 9-11 | 40.60 |
| V3606 | K 5.6, 1" NPT | Pendent/Recessed Pendent/Intermediate Pendent | Quick | 9-11 | 40.60 |
| V3607 | K 8.0, 1" NPT | Pendent/Recessed Pendent/Intermediate Pendent | Standard | 9-11 | 40.61 |
| V3608 | K 8.0, 1" NPT | Pendent/Recessed Pendent/Intermediate Pendent | Quick | 9-11 | 40.61 |
| V3601 | K 5.6, 1" NPT | Upright | Standard | 9-11 | 40.62 |
| V3602 | K 5.6, 1" NPT | Upright | Quick | 9-11 | 40.62 |
| V3603 | K 8.0, 1" NPT | Upright | Standard | 9-11 | 40.63 |
| V3604 | K 8.0, 1" NPT | Upright | Quick | 9-11 | 40.63 |
| V3609 | K 5.6, 1" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Standard | 9-12 | 40.64 |
| V3610 | K 5.6, 1" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-12 | 40.64 |
| V3611 | K 8.0, 1" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Standard | 9-12 | 40.65 |
| V3612 | K 8.0, 1" NPT | Horizontal Sidewall/Recessed Horizontal Sidewall | Quick | 9-12 | 40.65 |
| V3617 | K 5.6, 1" NPT | Concealed Pendent | Standard | 9-12 | 40.66 |
| V3618 | K 5.6, 1" NPT | Concealed Pendent | Quick | 9-12 | 40.66 |
| V3619 | K 8.0, 1" NPT | Concealed Pendent | Standard | 9-12 | 40.67 |
| V3620 | K 8.0, 1" NPT | Concealed Pendent | Quick | 9-12 | 40.67 |
| V3301 | K 5.6, 1" NPT | Concealed Pendent | Standard | 9-12 | 40.68 |
| V3302 | K 5.6, 1" NPT | Concealed Pendent | Quick | 9-12 | 40.68 |
| V3303 | K 8.0, 1" NPT | Concealed Pendent | Standard | 9-12 | 40.69 |
| V3304 | K 8.0, 1" NPT | Concealed Pendent | Quick | 9-12 | 40.69 |
| NOZZLES | | | | | |
| V1001 – V1013 | K 1.4 – K 11.5 | Open Spray Window Sprinkler | Open | 9-13 | 40.72 |
| V1201 – V1278 | K 1.2 – K 7.2 | 65° – 180° | Open | 9-13 | 40.96 |
| V2601 | K 2.8 | Foam Nozzle | Open | 9-13 | 40.73 |
| V2603 | K 5.6 | Foam Nozzle | Open | 9-13 | 40.73 |
| SPRINKLER WRENCHES AND ACCESSORIES, PG. 9-14 | | | | | |

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Victaulic, FireLock, FireLock EZ, FireLock NXT, AquaFlex, FlushSeal, Vic-Groover, Roust-A-Bout, Zero-Flex, Vic-Flange, Vic-Boltless, Vic, Mechanical-T, Pressfit, Vic-Tap, Vic-Easy and the Victaulic logo are all registered trademarks of Victaulic Company. All Rights Reserved.

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We warrant all products to be free from defects in materials and workmanship under normal conditions of use and service. Our obligation under this warranty is limited to repairing or replacing at our option at our factory any product which shall within one year after delivery to original buyer be returned with transportation charges prepaid, and which our examination shall show to our satisfaction to have been defective.

THIS WARRANTY IS MADE EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S SOLE AND EXCLUSIVE REMEDY SHALL BE FOR THE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS AS PROVIDED HEREIN. THE BUYER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO HIM.

Victaulic Company neither assumes nor authorizes any person to assume for it any other liability in connection with the sale of such products.

This warranty shall not apply to any product which has been subject to misuse, negligence or accident, which has been repaired or altered in any manner outside of the Victaulic factory or which has been used in a manner contrary to instructions or recommendations provided by Victaulic Company. Victaulic Company shall not be responsible for design errors due to inaccurate or incomplete information supplied by Buyer or its representatives.

Items purchased by Victaulic and resold will have the original equipment manufacturer's warranty extended to Victaulic customers.

Effective August 4, 2008

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



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Applications

Piping. Systems. Solutions.

Victaulic offers a broad, innovative fire protection product line that has been designed to meet tight timeline challenges and expectations of world-class quality and performance.

This commitment to quality and performance, bundled with prompt product delivery, superior customer and engineering support, and ease of installation and maintenance make Victaulic products the preferred choice for fire protection professionals worldwide.

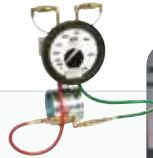


The Victaulic FireLock NXT® valve line saves space and requires less room for installation than most competitive valves.



Victaulic valves have a single set point that allow for a smaller compressor and easier initial set-up.





Victaulic provides a complete line of valves, couplings, fittings and specialty products for all sizes of fire pumps.



A full line of fire protection devices for alarm, dry, deluge and preaction sprinkler systems.



Victaulic FireLock® sprinklers are designed to protect a wide range of spaces including large storage areas.



The new installation-ready FireLock EZ® coupling reduces the time required to install systems by up to 60%.

Piping. Systems. Solutions.

www.victaulic.com

The Victaulic website is an information resource that can help you with your piping projects. Among the many resources available at the site:

- Fully searchable product and project databases
- Free product submittals and literature available in 11 languages
- Piping software demos and modules
- Information on new product innovations
- Support services, and more...



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