

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
- Free product literature
- Piping software demos and modules
- Information on new product innovations
- Support services, and more...



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VICTAULIC FIRE PROTECTION SYSTEMS

G-105 FP

UPDATED 11/2006

Fire Protection Systems

G-105 FP
UPDATED 11/2006

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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.

* Please check with your local representative for availability.



More than 80 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.



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



A full line of products for underground services allow easy connection to the fire water supply line.



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%.



www.victaulic.com



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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victaulic®
Piping. Systems. Solutions.



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, click on **Piping Solutions** > **Project Brief Database** found at www.victaulic.com.



UNITED STATES
Bellagio Casino



CANADA
Adobe Tower



EGYPT
Alexandria Library



GERMANY
Sony Center



CHINA
Jin Mao Tower



AUSTRALIA
Sydney Olympic Stadium



- UNITED STATES
- CANADA
- EUROPE
- CENTRAL & SOUTH AMERICA
- ASIA PACIFIC
- MIDDLE EAST

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	DORMITORY	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 FireLock CPVC †	FireLock couplings, fittings, and valves
Recommended device type	Series 751/759 alarm valves, Series 717/717R check valves	Series 756#/768 NXT § dry valve@
Recommended sprinkler type	Quick response commercial and residential recessed pendants and horizontal sidewalls EXAMPLES: V26, V27, V29, V38	Upright extended coverage, ordinary hazard (ECOH) V34
Recommended sprinkler finishes/coatings	White, chrome, or custom-painted	Brass

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

@ In areas that do not experience freezing conditions the Series 751/759 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, valves, and FireLock CPVC †
Series 758#/769 NXT § deluge valves	Series 758#/769 NXT § preaction valves	Series 756#/768 NXT § dry valves	Series 717/717R check valves
Open deluge type V34	Quick response, recessed or concealed pendent V38, V27	Standard or quick response pendent, horizontal sidewall, upright or intermediate V34	Residential recessed pendent or horizontal sidewall or concealed pendent V26, V27, V29, V38
Brass	Brass, chrome, or custom-painted cover plate	Brass	White, chrome, or custom-painted

† Available in the US and Mexico only.

§ Available in select regions. Contact your Victaulic sales representative for availability.

Not available in North America.

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

1925 Introduced grooved end pipe joining to the U.S.

1926

1927

1928

1929



1930 AWWA products introduced for underground services

1931

1932

1933



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.

1934

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

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

1961



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



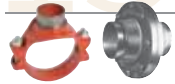
1974 First grooved coupling for reducing on-the-run connections



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 like Schedule 40 and 80, and into the lighter wall and smaller diameters used in such vital applications as fire protection.

1975



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

1976

1977



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

1978 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-type fire sprinklers with UL listing

2004



Patented

FIRELOCK EZ COUPLING

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

2005

2005



FIRELOCK NXT

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

2006

2006

2007

2008

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. 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, for a fully detailed index, see pg. 92. For more detailed design guidelines, consult Design Data, Section 26.01.

Important Information

Victaulic has developed, in over 80 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.

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	Automatic Sprinklers
I-100	General Handbook
I-300	AWWA Products Handbook
I-500	Pressfit System Handbook
I-600	Copper Products Handbook
I-768	NXT Dry Valve Manual *
I-769D	NXT Deluge Valve Manual *
I-769P	NXT Preaction Valve Manual *
I-800	CPVC Products Handbook **
I-900	HDPE Products Handbook

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.

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* Contact your local Victaulic representative for availability.

** Available in the US and Mexico only.



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
½	21.3 mm	15	15 A/21.7 mm	½	15*/21.3 mm
¾	26.7 mm	20/26.9 mm	20 A/27.2 mm	¾	20*/26.9 mm
1	33.4 mm	25/33.7 mm	25 A/34 mm	1	25*/33.7 mm
1¼	42.2 mm	32/42.4 mm	32 A/42.7 mm	1¼	32*/42.4 mm
1½	48.3 mm	40	40 A/48.6 mm	1½	40*/48.3 mm
2	60.3 mm	DN & ISO 50	50 A/60.5 mm	2	50*/60.3 mm
2½	73.1 mm	—	—	2½	—
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

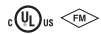
This chart is provided as a guide for converting imperial and metric measurements provided within this catalog.

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. (m ³ /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 Style 009 FireLock EZ coupling–this installation ready, patented coupling eliminates the need for disassembling and reassembling components during installation

FireLock EZ Rigid Coupling
STYLE 009, PG. 14



FireLock EZ Rigid Coupling†
STYLE 009V, PG. 14



FireLock Rigid Coupling
STYLE 005, PG. 15



Zero-Flex® Rigid Coupling
STYLE 07, PG. 16



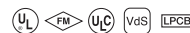
Standard Flexible Coupling
STYLE 77, PG. 17



Flexible Coupling
STYLE 75, PG. 18






Reducing Coupling
STYLE 750, PG. 19



† Available in Europe and UK only.

Couplings

Gasket Type		Style 005	Style 07	Style 77	Style 75	Style 750	Style 72 †	Style HP-70	Style 791
STANDARD 		●	●	●	●		●	●	●
REDUCING 						●			
FLUSHSEAL® 		●	●	●	●				●

† Separate gasket specifically designed for outlet couplings.

*** GENERAL NOTES:**

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. 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, request Publication 10.01.**

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.

FireLock Flange Adapter
ANSI Class 150
STYLE 744, PG. 20



Vic-Flange® Adapter
ANSI Class 150/PN16
STYLE 741, PG. 21



Vic-Flange Adapter
ANSI Class 300/PN16
STYLE 743, PG. 21



PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
- 62 FireLock Automatic Sprinklers
- 78 CPVC FireLock Piping
- 80 Specialty Products
- 82 Pipe Preparation Tools

Outlet Coupling
STYLE 72, PG. 22

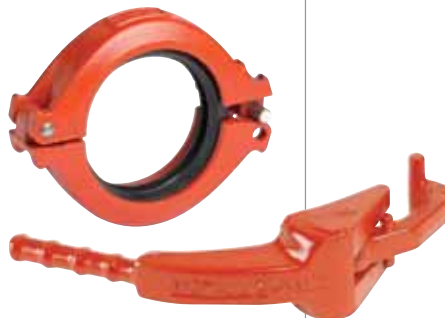


Available with female threaded outlets (shown) and grooved outlets

Rigid Coupling
STYLE HP-70, PG. 23



Vic-Boltless® Coupling
STYLE 791 AND STYLE 792 ASSEMBLY TOOL, PG. 23



Couplings

FireLock EZ Rigid Coupling

STYLE 009

STYLE 009V (Europe Only)

For Complete Information Request Publication 10.60

COUPLINGS



- 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%
- Rated up to 300psi/2065 kPa
- Sizes from 1 ¼ – 4"/32 – 100 mm

STYLE 009  

Size		Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. †	Dimensions					Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	Pre-assembled		Joint Assembled			Lbs. kg
					X Inches mm	Y Inches mm	X Inches mm	Y Inches mm	Z Inches mm	
1 ¼ 32	1.660 42.4	300 2065	649 2888	0.10 2.54	3.13 80	4.93 125	2.86 73	4.83 123	1.93 49	1.5 0.7
1 ½ 40	1.900 48.3	300 2065	851 3787	0.10 2.54	3.38 86	5.16 131	3.11 79	5.07 129	1.86 47	1.7 0.8
2 50	2.375 60.3	300 2065	1329 5914	0.12 3.05	3.88 99	5.81 148	3.59 91	5.68 144	1.86 47	1.9 0.9
2 ½ 65	2.875 73.0	300 2065	1948 8668	0.12 3.05	4.38 111	6.21 158	4.08 104	6.10 155	1.87 48	2.0 0.9
3 80	3.500 88.9	300 2065	2886 12842	0.12 3.05	5.03 128	6.88 175	4.70 119	6.78 172	1.88 48	2.3 1.0
4 100	4.500 114.3	300 2065	4771 21230	0.17 4.32	6.19 157	8.11 206	5.94 151	8.01 203	2.09 53	3.9 1.8

STYLE 009V    

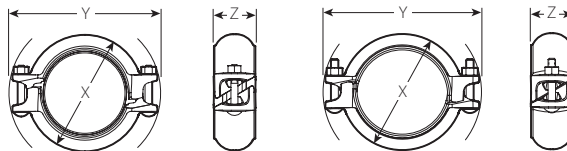
Size		Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. †	Dimensions					Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	Pre-assembled		Joint Assembled			Lbs. kg
					X Inches mm	Y Inches mm	X Inches mm	Y Inches mm	Z Inches mm	
1 ¼ 32	1.660 42.4	300 2065	649 2888	0.10 2.54	3.14 80	4.84 123	2.85 72	4.65 118	1.91 49	1.6 0.7
1 ½ 40	1.900 48.3	300 2065	851 3787	0.10 2.54	3.34 85	5.06 129	3.13 80	4.85 123	1.92 49	1.7 0.8
2 50	2.375 60.3	300 2065	1329 5914	0.12 3.05	3.91 99	5.66 144	3.61 92	5.47 139	1.94 49	2.1 0.9
76.1 mm	2.875 73.0	300 2065	1948 8668	0.12 3.05	4.57 116	6.46 164	4.17 106	6.18 157	1.96 50	2.3 1.1
3 80	3.500 88.9	300 2065	2886 12842	0.12 3.05	5.15 131	7.12 181	4.73 120	6.67 169	1.94 49	2.6 1.2
4 100	4.500 114.3	300 2065	4771 21230	0.17 4.32	6.39 162	8.74 222	6.05 154	8.46 215	2.11 54	4.6 2.1

† The allowable pipe end 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.

* Refer to General Notes on pg. 13.

IMPORTANT NOTES:

When assembling Style 009 couplings onto FireLock end caps, take additional care to make certain the cap is fully seated against the gasket and stop. Please make certain the 4"/100 mm No. 006 cap includes an "EZ" mark on its reverse side to ensure compatibility.



STYLE 009/009V PRE-ASSEMBLED

STYLE 009/009V JOINT ASSEMBLED

Couplings

FireLock Rigid Coupling

STYLE 005

For Complete Information Request Publication **10.02**



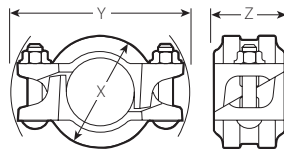
- Unique angle-pad design for rigidity
- Allows supporting/hanging same as welded or threaded in accordance with NFPA-13 requirements
- For use in fire protection services only
- Pressure rated up to 350 psi/2410 kPa
- Sizes from 1 ¼ – 8”/32 – 200mm

Size		Max. Work Pressure § *	Max. End Load *	Allow. Pipe End Sep. † *	Dimensions			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	X Inches mm	Y Inches mm	Z Inches mm	Lbs. kg
1 ¼ 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
1 ½ 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
2 ½ 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
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
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
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
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
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
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
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 LPC Approved to 12 Bar/175 psi.

* Refer to General Notes on pg. 13.



TYPICAL FOR ALL SIZES

Couplings

Zero-Flex Rigid Coupling

STYLE 07

For Complete Information Request Publication **06.02**

COUPLINGS



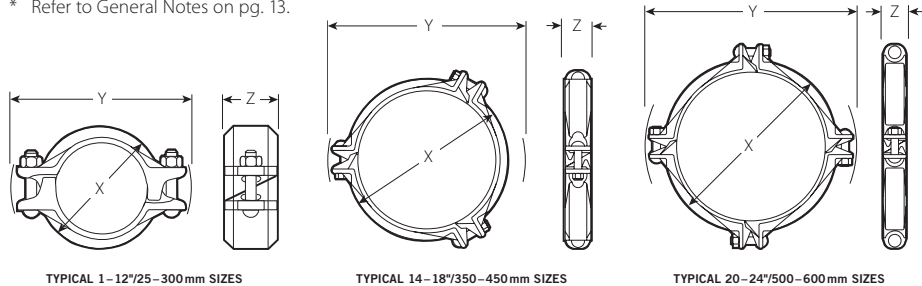
- Angled-pad design for rigidity
- Resists flexural and torsional loads
- Pressure rated up to 500 psi/3450 kPa
- Sizes from 1 – 24"/25 – 600 mm

Size		Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. *	Dimensions			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm				X Inches mm	Y Inches mm	Z Inches mm	
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
1 1/4	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
1 1/2	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
2 1/2	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
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
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
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
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
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
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
8 §	8.625	450	26278	0.1	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
14	14.000	175	26926	0.13	16.06	19.89	2.87	32.8
350	355.6	1205	119818	3.3	408	505	73	14.9
16	16.000	175	35168	0.13	18.39	21.84	2.87	41.2
400	406.4	1205	156498	3.3	467	555	73	18.7
18	18.000	175	44510	0.13	20.68	23.89	3.00	54.2
450	457.0	1205	198067	3.3	525	607	76	24.6
20	20.000	175	54950	0.13	22.93	27.47	3.00	67.2
500	508.0	1205	244528	3.3	582	698	76	30.5
24	24.000	175	79128	0.09	27.05	31.61	3.06	76.2
600	609.6	1205	352120	3.2	687	803	78	34.6

§ 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.

* Refer to General Notes on pg. 13.



Couplings

Standard Flexible Coupling

STYLE 77

For Complete Information
Request Publication **06.04**

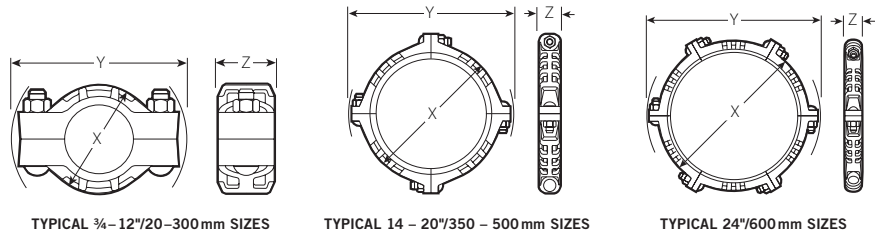


- Cross-ribbed construction design
- Provides flexibility for expansion, contraction, and deflection
- Pressure rated up to 500 psi/3450 kPa
- Sizes from 3/4 – 24”/20 – 600mm

Size		Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. *	Dimensions			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	X Inches mm	Y Inches mm	Z Inches mm	Lbs. kg
3/4	1.050	500	433	0 – 0.06	2.13	4.00	1.75	1.1
20	26.7	3450	1926	0 – 1.6	54	102	44	0.5
1	1.315	500	679	0 – 0.06	2.38	4.12	1.75	1.2
25	33.4	3450	3020	0 – 1.6	61	105	44	0.5
1 1/4	1.660	500	1082	0 – 0.06	2.65	5.00	1.88	2.0
32	42.2	3450	4813	0 – 1.6	67	127	48	0.9
1 1/2	1.900	500	1417	0 – 0.06	3.13	5.38	1.88	2.1
40	48.3	3450	6305	0 – 1.6	79	137	48	1.0
2	2.375	500	2214	0 – 0.06	3.63	5.88	1.88	2.6
50	60.3	3450	9852	0 – 1.6	92	149	48	1.2
2 1/2	2.875	500	3244	0 – 0.06	4.25	6.50	1.88	3.1
65	73.0	3450	14437	0 – 1.6	108	165	48	1.4
76.1mm	3.000	500	3533	0 – 0.06	4.38	6.63	1.88	3.2
	76.1	3450	15720	0 – 1.6	111	168	48	1.5
3	3.500	500	4808	0 – 0.06	5.00	7.13	1.88	3.7
80	88.9	3450	21396	0 – 1.6	127	181	48	1.7
108.0mm	4.250	500	7090	0 – 0.13	6.00	8.63	2.13	11.0
	108.0	3450	31548	0 – 3.2	152	219	54	5.0
4	4.500	500	7948	0 – 0.13	6.13	8.88	2.13	6.7
100	114.3	3450	35369	0 – 3.3	156	226	54	3.0
133.0mm	5.250	500	10818	0 – 0.13	7.63	10.38	2.13	10.0
	133.0	3450	48141	0 – 3.3	194	264	54	4.5
139.7mm	5.500	500	11873	0 – 0.13	8.63	10.65	2.13	10.0
	139.7	3450	52835	0 – 3.3	219	270	54	4.5
5	5.563	500	12147	0 – 0.13	7.75	10.65	2.13	10.6
125	141.3	3450	54053	0 – 3.3	197	270	54	4.8
159.0mm	6.250	500	15332	0 – 0.13	8.63	11.50	2.13	13.2
	159.0	3450	68228	0 – 3.3	219	292	54	6.0
165.1mm	6.500	500	16583	0 – 0.13	8.88	11.63	2.13	13.2
	165.1	3450	73795	0 – 3.3	226	295	54	6.0
6	6.625	500	17227	0 – 0.13	8.63	11.88	2.13	12.0
150	168.3	3450	76660	0 – 3.3	219	302	54	5.4
8 5/8	8.625	500	29198	0 – 0.13	11.00	14.75	2.50	20.8
200	219.1	3450	129933	0 – 3.3	279	375	63	9.4
10 5/8	10.750	500	45358	0 – 0.13	13.63	17.13	2.63	31.1
250	273.0	3450	201844	0 – 3.3	346	435	67	14.1
12 5/8	12.750	500	63806	0 – 0.13	15.63	19.25	2.63	27.8
300	323.9	3450	283936	0 – 3.3	397	489	67	12.6
14	14.000	300	46158	0 – 0.13	16.63	19.88	2.88	35.6
350	355.6	2065	205403	0 – 3.3	422	505	73	16.1
16	16.000	175	35168	0 – 0.13	19.00	22.13	3.00	51.1
400	406.4	1205	156498	0 – 3.3	482	562	76	23.2
18	18.000	175	44510	0 – 0.13	21.38	24.50	3.13	64.4
450	457.2	1205	198067	0 – 3.3	543	622	80	29.2
20	20.000	175	54950	0 – 0.13	23.63	27.25	3.13	91.2
500	508.0	1205	244528	0 – 3.3	600	692	80	41.4
24	24.000	175	79128	0 – 0.13	27.75	31.25	3.13	94.0
600	609.6	1205	352120	0 – 3.3	704	794	80	42.6

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

* Refer to General Notes on pg. 13.



Couplings

Flexible Coupling

STYLE 75

For Complete Information
Request Publication **06.05**

COUPLINGS

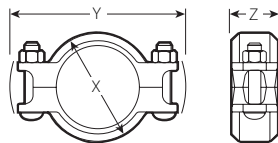


- For use where moderate pressures are expected and weight considerations are a factor
- 50% lighter in weight than Style 77
- Pressure rated up to 500psi/3450kPa
- Sizes from 1 – 8"/25 – 200mm

Size		Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. *	Dimensions			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm				X Inches mm	Y Inches mm	Z Inches mm	
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
1 1/4	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
1 1/2	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
2 1/2	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
3 1/2	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
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
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
4 1/2	5.000	450	8,820	0 – 0.13	6.13	9.43	2.13	5.5
120	127.0	3100	39250	0 – 3.2	156	240	54	2.5
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
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
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
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
203.2 mm #	8.000	450	22,635	0 – 0.13	9.72	13.33	2.31	12.6
	203.2	3100	100725	0 – 3.2	247	339	54	5.7
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

Style 74 Coupling.

* Refer to General Notes on pg. 13.



TYPICAL FOR ALL SIZES

Couplings

Reducing Coupling

STYLE 750

For Complete Information
Request Publication **06.08**



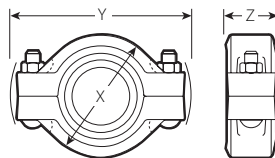
- Direct reduction on the piping run
- Designed to replace two couplings and a reducing fitting
- Special reducing gasket for pressure responsive sealing
- Pressure rated up to 350 psi/2410 kPa
- Sizes from 2 × 1½"/50 × 40mm through 8 × 6"/200 × 150mm

Size	Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. *	Dimensions			Approx. Wgt. Each	
				X	Y	Z		
Nominal Size Inches mm	psi kPa	Lbs. N	Inches mm	Inches mm	Inches mm	Lbs. kg		
2 50 × 1½ 40	350 2410	1,000 4450	0 – 0.07 0 – 1.8	3.38 85	5.25 133	1.88 48	2.0 0.9	
	2½ 65 × 2 50	350 2410	2,215 9850	0 – 0.07 0 – 1.8	4.06 103	6.00 152	1.88 48	2.3 1.0
76.1 × 2 50		350 2410	1,550 6900	0 – 0.07 0 – 1.8	4.13 105	6.00 152	1.88 48	4.6 2.1
	3 80 × 2 50	350 2410	1,550 6900	0 – 0.07 0 – 1.8	4.75 121	7.13 181	1.88 48	4.6 2.1
2½ 65 × 2 50		350 2410	3,250 14460	0 – 0.07 0 – 1.8	4.75 121	7.13 181	1.88 48	3.8 1.7
		76.1 × 2 50	350 2410	2,275 10125	0 – 0.07 0 – 1.8	4.75 121	7.13 181	1.88 48
4 100 × 2 50	350 2410	1,550 6900	0 – 0.13 0 – 3.2	6.25 159	8.88 225	2.25 57	8.8 4.0	
	2½ 65 × 2 50	350 2410	2,275 10125	0 – 0.13 0 – 3.2	6.25 159	8.88 225	2.25 57	8.3 3.8
		3 80 × 2 50	350 2410	4,810 21400	0 – 0.13 0 – 3.2	6.00 152	8.88 225	2.25 57
4½ 120 × 76.1	350 2410	2,275 10125	0 – 0.13 0 – 3.2	6.25 159	8.88 225	2.25 57	6.4 2.9	
5 125 × 4 100	350 2410	5,565 24765	0 – 0.13 0 – 3.2	7.13 181	10.63 270	2.13 54	10.8 4.9	
	6 150 × 4 100	350 2410	5,565 24765	0 – 0.13 0 – 3.2	8.63 219	11.88 302	2.25 57	16.1 7.3
5 125 × 4 100		350 2410	8,500 37825	0 – 0.13 0 – 3.2	8.50 216	11.88 302	2.25 57	12.6 5.7
	165.1 × 4 100	350 2410	5,565 24765	0 – 0.13 0 – 3.2	8.50 216	11.38 289	2.25 57	15.2 6.9
8 200 × 6 150		350 2410	12,000 53400	0 – 0.13 0 – 3.2	10.75 273	14.75 375	2.50 64	22.3 10.1

* Refer to General Notes on pg. 13.

IMPORTANT NOTES:

Style 750 reducing couplings should not be used with end caps (No. 60) in systems where a vacuum may be developed. Contact Victaulic Company for details.



TYPICAL FOR ALL SIZES

Couplings

COUPLINGS

FireLock Flange Adapter ANSI Class 150

STYLE 744

For Complete Information
Request Publication 10.04



- Directly incorporates ANSI Class 125 or Class 150 bolt hole patterns into a grooved system
- Hinged for easy handling with integral end tabs which facilitate assembly
- Small teeth inside the key shoulder I.D. 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			A Max. Inches mm	B Min. Inches mm	W Inches mm	Z Inches mm	
2	2.375	175	775	2.38	3.41	6.75	0.75	2.7
50	60.3	1200	3450	60	87	172	19	1.2
2 ½	2.875	175	1135	2.88	3.91	7.88	0.88	4.2
65	73.0	1200	5050	73	99	200	22	1.9
3	3.500	175	1685	3.50	4.53	8.44	0.94	4.8
80	88.9	1200	7500	89	115	214	24	2.2
4	4.500	175	2780	4.50	5.53	9.94	0.94	7.1
100	114.3	1200	11045	114	141	252	24	3.2
5	5.563	175	4250	5.56	6.71	11.00	1.00	8.3
125	141.3	1200	18920	141	171	279	25	3.8
6	6.625	175	6030	6.63	7.78	12.00	1.00	9.3
150	168.3	1200	26840	168	198	305	25	4.2
8	8.625	175	10219	8.63	9.94	14.63	1.13	13.9
200	219.1	1200	45475	219	252	372	29	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.

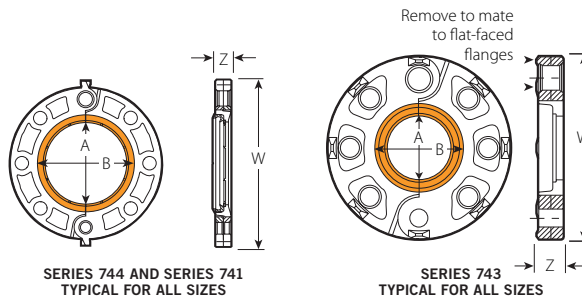
IMPORTANT NOTES

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 705 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.



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 150/PN10

STYLE 741

For Complete Information
Request Publication **06.06**



- Directly incorporates ANSI Class 125 or Class 150 flanged components into a grooved system
- Pressure rated up to 250psi/1725kPa
- 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	250	1107	2.38	3.41	6.75	0.75	3.1
50	60.3	1725	4926	60	87	172	19	1.4
2½	2.875	250	1622	2.88	3.91	7.88	0.88	4.8
65	73.0	1725	7218	73	99	200	22	2.1
76.1 mm	3.00	250	1766	2.88	3.91	7.88	0.88	4.8
	76.1	1725	7860	73	99	200	22	2.1
3	3.500	250	2404	3.50	4.53	8.44	0.94	5.3
80	88.9	1725	10698	89	115	214	24	2.4
4	4.500	250	3974	4.50	5.53	9.94	0.94	7.4
100	114.3	1725	17685	114	141	252	24	3.4
5	5.563	250	6073	5.56	6.71	11.00	1.00	8.6
125	141.3	1725	27026	141	171	279	25	3.9
165.1 mm †	6.500	250	8292	6.50	7.66	12.00	1.00	10.0
	165.1	1725	36897	165	195	305	25	4.5
6	6.625	250	8614	6.63	7.78	12.00	1.00	9.9
150	168.3	1725	38330	168	198	305	25	4.5
168.3 mm	6.625	250	8614	6.63	7.78	12.00	1.00	9.9
	168.3	1725	38330	168	198	305	25	4.5
8	8.625	250	14599	8.63	9.94	14.63	1.13	16.6
200	219.1	1725	64966	219	252	372	29	7.5
10	10.750	250	22679	10.75	12.31	17.19	1.19	24.2
250	273.0	1725	100922	273	313	437	30	11.0
12	12.750	250	31903	12.75	14.31	20.25	1.25	46.8
300	323.9	1725	141968	324	364	514	32	21.2

* Refer to Publication 06.06 for more details.

† Approved for use in China by Tianjin Approvals Company.

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 705W 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. Contact Victaulic for information on AS2129 - Table E; ISO 2084 (PN10); DIN 2532 (PN10) and JIS B-2210 (10K) flanges. 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

STYLE 743

For Complete Information
Request Publication **06.06**



- Pressure rated up to 250psi/1725kPa
- 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	250	1107	2.38	3.41	6.50	0.94	4.8
50	60.3	1725	4926	60	87	165	24	2.2
2½	2.875	250	1622	2.88	3.91	7.50	1.06	7.4
65	73.0	1725	7218	73	99	191	27	3.4
3	3.500	250	2404	3.50	4.53	8.25	1.19	9.1
80	88.9	1725	10698	89	115	210	30	4.1
4	4.500	250	3974	4.50	5.53	10.00	1.31	15.3
100	114.3	1725	17685	114	141	254	33	6.9
5	5.563	250	6073	5.56	6.71	11.00	1.44	17.7
125	141.3	1725	27026	141	171	279	37	8.0
6	6.625	250	8614	6.63	7.78	12.50	1.50	23.4
150	168.3	1725	38330	168	198	318	38	10.6
8	8.625	250	14599	8.63	9.94	15.00	1.69	34.3
200	219.1	1725	64966	219	252	381	43	15.6
10	10.750	250	22679	10.75	12.31	17.50	1.94	48.3
250	273.0	1725	100922	273	313	445	49	21.9
12	12.750	250	31903	12.75	14.31	20.50	2.00	70.5
300	323.9	1725	141968	324	364	521	51	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**

COUPLINGS



- Serves dual purpose as a coupling and outlet
- Designed to seal on the joined pipe ends and in the neck of the outlet
- Outlet can be prepared for grooved, female threaded or male threaded connections
- Pressure rated up to 500psi/3450kPa
- Sizes from 1½" x ½"/40 x 15mm through 6 x 2"/150 x 50mm

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

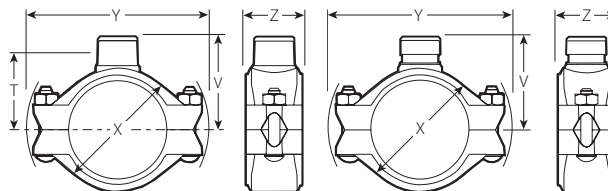
* Refer to General Notes on pg. 13.

‡ 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" x ½" - 6 x 1½"
40 x 25mm - 150 x 40mm SIZES
WITH FEMALE THREADED OUTLET

TYPICAL 2 x 1" - 6 x 2"
50 x 25mm - 150 x 50mm SIZES
WITH GROOVED OUTLET

Couplings

Rigid Coupling

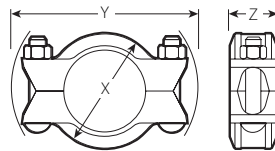
STYLE HP-70

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			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	X Inches mm	Y Inches mm	Z Inches mm	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. 13.

Vic-Boltless Coupling

STYLE 791 AND STYLE 792 ASSEMBLY TOOL

For Complete Information
Request Publication **06.11**



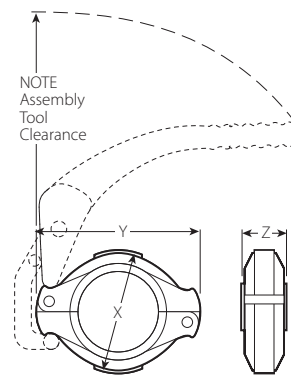
- Provides secure, tamper resistant, low profile joint
- Features locking pin installation with a separate tool
- Pressure rated up to 350psi/2410kPa
- Sizes from 2 – 8"/50 – 200mm

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

* Refer to General Notes on pg. 13.

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).



TYPICAL FOR ALL SIZES

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 009 couplings

STANDARD FITTINGS

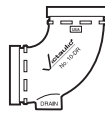
- Standard fittings conform to Style 77 coupling ratings



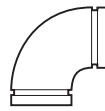
Fittings



FireLock 90° Elbow
NO. 001, PG. 25



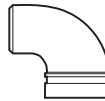
Drain Elbow
NO. 10-DR, PG. 26



90° Elbow
NO. 10, PG. 27



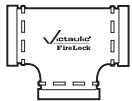
FireLock 45° Elbow
NO. 003, PG. 25



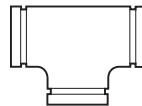
Vic®-End II
End of Run Elbow
NO. 67, PG. 26



45° Elbow
NO. 11, PG. 27



FireLock Straight Tee
NO. 002, PG. 25



Tee
NO. 20, PG. 27



FireLock Cap
NO. 006, PG. 25



Cap
NO. 60, PG. 27

PRODUCTS

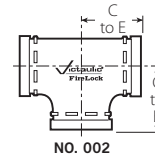
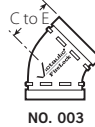
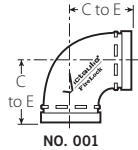
- 12 Couplings
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Fittings

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**



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
1 ¼ 32	1.660 42.4	2.75 70	1.0 0.5	1.75 45	0.9 4.1	2.75 70	1.5 0.7	0.82 21	0.3 0.1
1 ½ 40	1.900 48.3	2.75 70	1.2 0.5	1.75 44	0.9 0.4	2.75 70	2.0 0.9	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
2 ½ 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	3.88 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
139.7 mm	5.500 139.7	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
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
165.1 mm †	6.500 165.1	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
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
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

† No. 001 90° elbow and No. 002 straight tee approved for use in China by Tianjin Approvals Company.

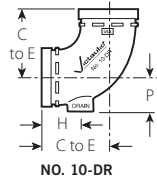
FITTINGS

Fittings

Drain Elbow

NO. 10-DR

For Complete Information
Request Publication 10.05

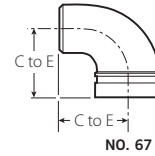


Size		Dimensions			Approx. Weight Each Lbs. kg
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	H Inches mm	P Inches mm	
2½ 65	2.875 73.0	3.75 95	2.75 70	1.68 43	5.2 2.4
3 80	3.500 88.9	4.25 108	2.75 70	2.10 53	5.3 2.4
4 100	4.500 114.3	5.00 127	2.75 70	2.60 66	8.8 4.0
6 150	6.625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



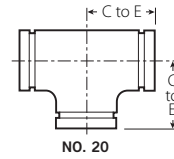
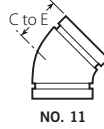
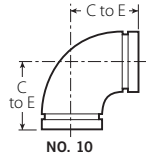
Size		Dimensions	Approx. Weight Each	Equivalent Length of Pipe	
Nominal Size Inches mm		C to E Inches mm	Lbs. kg	Feet m	
1¼ 32	×	½ NPT	2.38 61	1.4 0.6	2.8 0.9
		¾ NPT	2.38 61	1.4 0.6	2.8 0.9
		20 NPT	2.38 61	1.4 0.6	2.8 0.9
		25 NPT	2.38 61	1.4 0.6	2.8 0.9
1½ 40	×	½ NPT	2.50 64	1.6 0.7	2.9 0.9
		¾ NPT	2.50 64	1.6 0.7	2.9 0.9
		20 NPT	2.50 64	1.6 0.7	2.9 0.9
		25 NPT	2.50 64	1.6 0.7	2.9 0.9
2 50	×	½ NPT	2.75 70	1.7 0.8	4.0 1.2
		¾ NPT	2.75 70	1.7 0.8	4.0 1.2
		20 NPT	2.75 70	1.7 0.8	4.0 1.2
		25 NPT	2.75 70	1.7 0.8	4.0 1.2
2½ 65	×	½ NPT	3.00 76	2.0 0.9	5.7 1.7
		¾ NPT	3.00 76	2.0 0.9	5.7 1.7
		20 NPT	3.00 76	2.0 0.9	5.7 1.7
		25 NPT	3.00 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 20	1.050 26.9	2.25 57	0.5 0.2	1.50 38	0.5 0.2	2.25 57	0.6 0.3	0.88 22	0.2 0.1
1 25	1.315 33.7	2.25 57	0.6 0.3	1.75 44	0.6 0.3	2.25 57	1.0 0.5	0.88 22	0.3 0.1
1 1/4 32	1.660 42.4	2.75 70	1.0 0.5	1.75 44	0.9 0.4	2.75 70	1.5 0.7	0.88 22	0.3 0.1
1 1/2 40	1.900 48.3	2.75 70	1.2 0.5	1.75 44	0.9 0.4	2.75 70	2.0 0.9	0.88 22	0.5 0.2
2 50	2.375 60.3	3.25 83	1.8 0.8	2.00 51	1.3 0.6	3.25 83	3.0 1.4	0.88 22	0.6 0.3
2 1/2 65	2.875 73.0	3.75 95	3.2 1.5	2.25 57	2.2 1.0	3.75 95	4.3 2.0	0.88 22	1.0 0.5
76.1 mm	3.000 76.1	3.75 95	3.7 1.7	2.25 57	3.4 1.5	3.75 95	5.2 2.4	0.88 22	1.2 0.5
3 80	3.500 88.9	4.25 108	4.5 2.0	2.50 64	3.1 1.4	4.25 108	6.8 3.0	0.88 22	1.2 0.5
3 1/2 90	4.000 101.6	4.50 114	5.6 2.5	2.75 70	4.3 2.0	4.50 (sw) 114	7.9 3.6	0.88 22	2.5 1.1
108.0 mm	4.250 108.0	5.00 127	11.0 5.0	3.00 76	5.6 2.5	5.00 127	15.5 7.0	1.00 25	2.3 1.0
4 100	4.500 114.3	5.00 127	7.1 3.2	3.00 76	5.6 2.5	5.00 127	11.9 5.4	1.00 25	2.5 1.1
4 1/2 120	5.000 127.0	5.25 (sw) 133	10.0 4.5	3.13 (sw) 79	6.0 2.7	5.25 (sw) 133	15.0 6.8	1.00 25	2.5 1.1
133.0 mm	5.250 133.0	5.50 140	11.7 5.3	3.25 83	8.3 3.8	5.50 140	17.8 8.1	1.00 25	4.5 2.0
139.7 mm	5.500 139.7	5.50 140	11.7 5.3	3.25 83	8.3 3.8	5.50 140	17.8 8.1	1.00 25	4.5 2.0
5 125	5.563 141.3	5.50 140	11.7 5.3	3.25 83	8.3 3.8	5.50 140	17.8 8.1	1.00 25	4.6 2.1
159.0 mm	6.250 159.0	6.50 165	18.6 8.4	3.50 89	10.8 4.9	6.50 165	27.1 12.3	1.00 25	6.8 3.1
165.1 mm	6.500 165.1	6.50 165	15.5 7.0	3.50 89	9.8 4.4	6.50 165	22.0 10.0	1.00 25	7.3 3.3
6 150	6.625 168.3	6.50 165	17.2 7.8	3.50 89	10.8 4.9	6.50 165	25.7 1.7	1.00 25	6.1 2.8
8 200	8.625 219.1	7.75 197	29.9 13.6	4.25 108	20.4 9.3	7.75 197	47.6 21.6	1.19 30	13.1 5.9
10 250	10.750 273.0	9.00 229	63.3 28.7	4.75 121	37.5 17.0	9.00 229	99.0 44.9	1.25 32	21.0 9.5
12 300	12.750 323.9	10.00 254	74.0 33.6	5.25 133	66.7 30.3	10.00 254	133.0 60.3	1.25 32	35.6 16.2

Additional fitting configurations available, contact Victaulic for details.

(sw) segmentally welded steel.

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.

Hole Cut Piping System

- Victaulic developed the concept of a fast, easy mid-pipe outlet that does not require welding
- Gaskets are molded to conform to the O.D. 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"/108mm with Victaulic hole cutting tools, see pg. 87.

Mechanical-T® Bolted Branch Outlet

STYLE 920 AND STYLE 920N GROOVED OUTLET, PGS. 29-31



Mechanical-T Bolted Branch Outlet

STYLE 920 AND STYLE 920N FEMALE THREADED OUTLET, PGS. 29-31



Mechanical-T Bolted Branch Outlet

STYLE 920 CROSS, PGS. 29-31



PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 **Hole Cut Piping System**
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
- 62 FireLock Automatic Sprinklers
- 78 CPVC FireLock Piping
- 80 Specialty Products
- 82 Pipe Preparation Tools

FireLock Outlet-T

STYLE 922, PG. 32



Vic-Let™ Strapless Outlet

STYLE 923, PG. 33



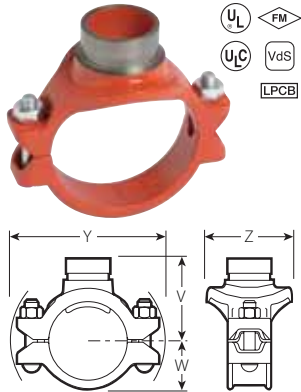
Hole Cut Piping System

Mechanical-T Bolted Branch Outlet

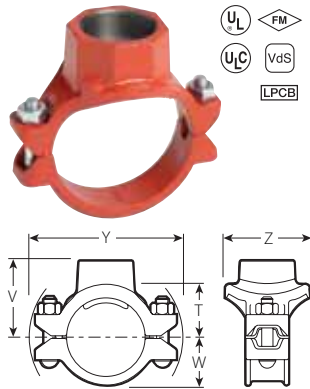
STYLE 920/920N

Grooved Outlet/Female Thd. Outlet

For Complete Information
Request Publication **11.02**



GROOVED OUTLET



FEMALE THREADED OUTLET

- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Request Publication 11.03 for Mechanical-T cross assemblies
- Pressure rated up to 400psi/2750kPa
- Sizes from 2 × ½"/ 50 × 15mm through 8 × 4"/200 × 100mm

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							Approx. Weight Each		
			Run × Branch Nominal Size Inches mm	920 or 920N	psi kPa	Hole Diameter +0.13 -0.00	T ** Inches mm	V †# Thd. Inches mm	V ‡ Grv. Inches mm	W Inches mm	Y Inches mm	Z Inches mm
2 50 ×	½ (a) □ 15	920N	400 2750	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	400 2750	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	400 2750	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	400 2750	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	400 2750	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	400 2750	1.50 38.1	2.21 56	2.74 70	—	1.82 46	5.64 143	2.75 70	3.0 1.4	—
	¾ (a) § 20	920N	400 2750	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	400 2750	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	400 2750	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	400 2750	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	920	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	920	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	920	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	920	400 2750	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	920	400 2750	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	400 2750	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	400 2750	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	400 2750	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	400 2750	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	400 2750	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
	2 (a) 50	920N	400 2750	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 ×	2 50	920N	400 2750	2.50 63.5	—	—	3.75 95	2.44 62	6.72 171	3.88 99	—	3.8 1.8
4 100 ×	½ (a) 15	920N	400 2750	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	400 2750	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	400 2750	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	400 2750	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	400 2750	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
	2 (a) † 50	920N	400 2750	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	400 2750	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
	76.1 mm	920	400 2750	2.75 69.9	—	—	4.00 102	2.69 68	7.34 186	4.63 118	—	6.4 2.9
3 (a) † 80	920	400 2750	3.50 88.9	3.31 84	4.50 114	4.12 105	2.69 68	7.73 196	5.12 130	8.4 3.8	6.4 2.9	

TABLE CONTINUED ON PG. 30, SEE FOOTNOTES ON PG. 31

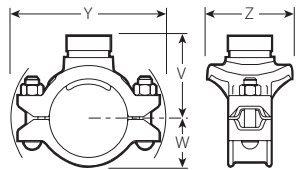
Hole Cut Piping System

Mechanical-T Bolted Branch Outlet (cont'd)

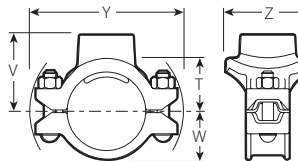
STYLE 920/920N

Grooved Outlet/Female Thd. Outlet

For Complete Information
Request Publication **11.02**



GROOVED OUTLET



FEMALE THREADED OUTLET

- Provides a direct branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Request Publication 11.03 for Mechanical-T cross assemblies
- Pressure rated up to 400 psi/2750kPa
- Sizes from 2 × 1/2" / 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							Approx. Weight Each		
			Run × Branch Nominal Size Inches mm	920 or 920N	psi kPa	Hole Dia. +0.13 -0.00	T ** Inches mm	V †# Thd. Inches mm	V † Grv. Inches mm	W Inches mm	Y Inches mm	Z Inches mm
TABLE CONTINUED FROM PG. 29												
108.0 ×	1 1/4 (a) 32	920N	400 2750	1.75 44.5	3.08 78	3.78 96	—	2.63 67	7.64 194	3.05 78	5.0 2.3	—
	1 1/2 (a) 40	920N	400 2750	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	400 2750	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	400 2750	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	—
	3 (a) 80	920	400 2750	3.50 88.9	3.31 84	4.50 114	—	2.63 67	7.63 194	4.88 124	6.8 3.1	6.5 3.0
	5 125 ×	1 1/2 (a) † 40	920	400 2750	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
	2 (a) † 50	920	400 2750	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 1/2 (a) † 65	920	400 2750	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	400 2750	2.75 69.9	—	—	4.75 121	3.16 80	9.70 246	4.63 118	—	8.0 3.6
	3 (a) † 80	920	400 2750	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	400 2750	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	400 2750	3.50 88.9	3.81 97	5.00 127	—	3.00 76	9.46 240	5.31 135	8.0 3.6	—
	76.1 mm	920	400 2750	2.75 69.9	3.63 92	4.75 121	—	3.13 80	9.85 250	4.63 118	8.8 4.0	—
139.7 ×	1 1/2 † 40	920N	400 2750	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	400 2750	2.50 63.5	3.75 95	4.50 114	—	3.30 84	8.23 209	3.88 99	9.0 4.1	—
	76.1 mm	920	400 2750	2.75 69.9	3.63 92	4.75 121	—	3.13 80	9.85 250	4.63 118	8.8 4.0	—
	76.1 mm	920	400 2750	3.50 88.9	—	—	4.63 118	3.16 80	9.70 246	5.31 135	—	11.0 5.0
	3 88.9	920	400 2750	3.50 88.9	3.81 96.80	5.00 127	4.63 118	3.16 80	9.85 250	5.38 137	14.0 6.4	14.2 6.4
	6 150 ×	1 1/4 (a) 32 (b)	920N	400 2750	1.75 44.5	4.43 112	—	—	3.79 96	9.15 232	3.25 83	—
	1 1/2 (a) † 40 (b)	920N	400 2750	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	400 2750	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
	2 1/2 (a) † 65	920	400 2750	2.75 69.9	4.01 110	5.13 130	5.12 130	3.69 94	10.51 267	4.63 118	8.3 3.8	7.6 3.4
	76.1 mm	920	400 2750	2.75 69.9	—	—	5.21 132	3.69 94	10.51 267	4.63 118	—	8.4 3.8
	3 (a) † 80	920	300 2065	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	300 2065	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
159.0 ×	1 1/4 32	920N	400 2750	1.75 44.5	4.43 113	5.13 130	—	3.63 92	9.40 239	3.25 83	9.0 4.1	8.7 4.0
	1 1/2 (a) 40	920N	400 2750	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	400 2750	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	400 2750	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	400 2750	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
	108.1 mm	920	400 2750	4.50 114.3	—	—	5.38 137	3.63 92	9.40 239	6.12 155	—	10.0 4.5
	4 100	920	400 2750	4.50 114.3	3.81 96.80	5.75 146	—	3.63 92	9.40 239	6.25 159	18.0 8.2	—
165.1 ×	1 25	920	400 2750	1.50 38.1	3.88 99	4.56 116	—	3.79 96	9.34 237	2.75 70	8.0 3.6	—
	1 1/4 32	920	400 2750	1.75 44.5	4.43 113	5.13 130	—	3.79 96	9.34 237	3.25 83	8.4 3.8	—
	1 1/2 (a) † 40	920	400 2750	2.00 50.8	4.41 112	5.13 130	—	3.79 96	9.34 237	3.25 83	8.4 3.8	—

TABLE CONTINUED ON PG. 31, SEE FOOTNOTES ON PG. 31

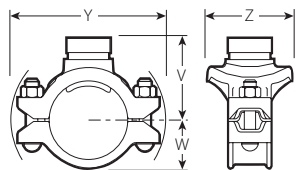
Hole Cut Piping System

Mechanical-T Bolted Branch Outlet (cont'd)

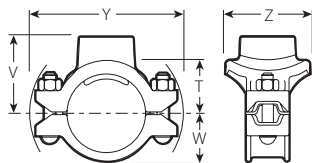
STYLE 920/920N

Grooved Outlet/Female Thd. Outlet

For Complete Information
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- A pressure responsive gasket provides the seal
- Request Publication 11.03 for Mechanical-T cross assemblies
- 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							Approx. Weight Each		
			Run × Branch Nominal Size Inches mm	920 or 920N	psi kPa	Hole Dia. +0.13 -0.00	T ** Inches mm	V †# Thd. Inches mm	V ‡ Grv. Inches mm	W Inches mm	Y Inches mm	Z Inches mm
TABLE CONTINUED FROM PG. 30												
165.1 ×	2 (a) † 50	920	400 2750	2.50 63.5	4.38 111	5.13 130	—	3.79 96	9.34 237	3.88 99	8.5 3.9	—
	2½ † 65	920	400 2750	2.75 69.9	4.01 110	5.13 130	—	3.63 92	10.51 267	4.63 118	8.6 3.9	7.6 3.4
	76.1 mm	920	400 2750	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	400 2750	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	400 2750	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	400 2750	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
	2½ (a) † 65	920	400 2750	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	400 2750	2.75 69.9	—	—	6.25 159	4.81 122	12.42 316	4.56 116	—	11.6 5.3
8 200 ×	3 (a) † 80	920	300 2065	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	300 2065	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.

(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.

§ Not VdS approved for fire protection services. All other sizes for Style 920/920N are VdS approved.

▣ Not LPCB approved for fire protection services. All other sizes for Style 920/920N are LPCB approved.

⊗ Approved for use in China by Tianjin Approvals Company.

Hole Cut Piping System

FireLock Outlet-T

STYLE 922

For Complete Information
Request Publication **10.52**

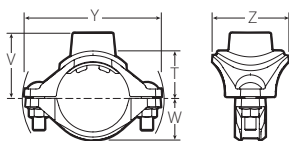


- Incorporates ½-1" / 10 – 25 mm outlets for directly connecting sprinklers, drop nipples, sprigs, gauges, drains and other outlet products
- UL/ULC Listed, LPC, Vds/FM Approved for branch connections on wet and dry systems
- Style 922 FireLock Outlet-T's are not approved for cross configurations
- Pressure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

Size		Hole Diameter	Dimensions					Approx. Wgt. Each
Run × Branch	FPT †		T *	V	W	Y	Z	Lbs. kg
Nominal Size		+0.06/+1.5 -0.00/-0.0	Inches mm	Inches mm	Inches mm	Inches mm	Inches mm	
1¼ 32	× ½ 15	1⅜	1.30	1.83	1.10	3.87	2.56	1.0
		30.2	33.0	46.5	27.9	98.3	65.0	0.45
	¾ 20	1⅜	1.28	1.83	1.10	3.87	2.56	1.1
		30.2	32.5	46.5	27.9	98.3	65.0	0.50
	1	1⅜	1.52	2.18	1.10	3.87	2.56	1.2
	25	30.2	38.6	55.4	27.9	98.3	65.0	0.54
1½ 40	× ½ 15	1⅜	1.42	1.95	1.22	4.08	2.56	1.2
		30.2	36.1	49.5	31.0	103.6	65.0	0.54
	¾ 20	1⅜	1.40	1.95	1.22	4.08	2.56	1.2
		30.2	35.6	49.5	31.0	103.6	65.0	0.54
	1	1⅜	1.64	2.30	1.22	4.08	2.56	1.3
	25	30.2	41.7	58.4	31.0	103.6	65.0	0.59
2 50	× ½ 15	1⅜	1.66	2.19	1.46	4.60	2.56	1.3
		30.2	42.2	55.6	37.1	116.8	65.0	0.59
	¾ 20	1⅜	1.64	2.19	1.46	4.60	2.56	1.4
		30.2	41.7	55.6	37.1	116.8	65.0	0.64
	1	1⅜	1.88	2.54	1.46	4.60	2.56	1.5
	25	30.2	47.8	64.5	37.1	116.8	65.0	0.68
2½ 65	× ½ 15	1⅜	1.91	2.44	1.71	5.40	2.56	1.6
		30.2	48.5	62.0	43.4	137.2	65.0	0.73
	¾ 20	1⅜	1.89	2.44	1.71	5.40	2.56	1.6
		30.2	48.0	62.0	43.4	137.2	65.0	0.73
	1	1⅜	2.13	2.79	1.71	5.40	2.56	1.6
	25	30.2	54.1	70.9	43.4	137.2	65.0	0.73
76.1 mm ×	½ 15	1⅜	1.91	2.44	1.71	5.50	2.56	1.6
		30.2	48.5	62.0	43.4	139.7	65.0	0.73
	¾ 20	1⅜	1.89	2.44	1.71	5.50	2.56	1.6
		30.2	48.0	62.0	43.4	139.7	65.0	0.73
	1	1⅜	2.13	2.79	1.71	5.50	2.56	1.7
	25	30.2	54.1	70.9	43.4	139.7	65.0	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



- 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 – 200 mm and Schedules 10 – 40 steel pipe for sizes 10"/250 mm and larger

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

* On schedule 40 pipe 4 – 8"/100 – 200 mm and Schedule 10 – 40 for sizes 10"/250 mm and larger. Minimum 0.165"/4.2 mm, maximum 0.375"/9.5 mm 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 200 psi/1375 kPa for standard wall aluminum pipe.

** Inside wall of run to engaged pipe end.

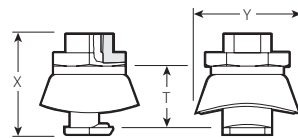
*** Width of collar is as supplied, width assembled changes due to collar deformation at assembly.

IMPORTANT NOTES:

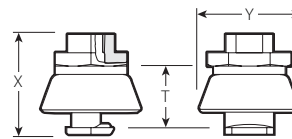
Flow Data: Flow area equivalent to 3/4"/20 mm pipe. Accepts 7/16"/11 mm diameter probe.

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

Valves and Accessories

The FireLock line of valves includes, butterfly, ball, gate and check valves that are specifically designed for use in fire protection piping systems.

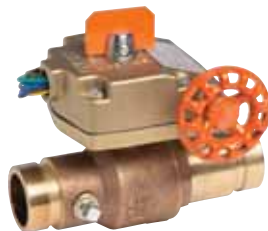
The Victaulic FireLock valve line covers the full service, pressure and size range for fire protection systems. As the innovator of mechanical pipe joining products Victaulic continues to introduce products that are designed to make piping system installations faster, easier and safer.

Valves

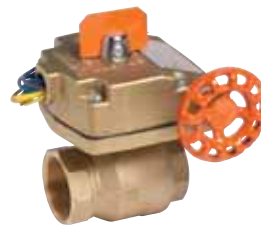
FireLock
Butterfly Valve
SERIES 705W, PG. 36



FireLock
Ball Valve
SERIES 728, PG. 37



Groove Ends



Threaded Ends

FireLock
Check Valve
SERIES 717, PG. 38



FireLock Riser
Check Valve
SERIES 717R, PG. 39



OS & Y
Gate Valve
SERIES 771H, PG. 40
SERIES 771F, PG. 40



Available
Grv. x Grv.
and
Grv. x Flange

NRS
Gate Valve
SERIES 772H, PG. 40
SERIES 772F, PG. 40



Available
Grv. x Grv.
and
Grv. x Flange

Valves and Accessories

Victaulic Innovations

Since the beginning 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 alarm 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

Riser Manifold Assembly

STYLE 747, PG. 42



Riser Manifold Assembly

STYLE 747P, PG. 43



Pressure Relief Option

Fire Pump Test Meter

STYLE 735, PG. 45



TestMaster™ II Alarm Test Module

STYLE 720, PG. 44



Groove Ends



Threaded Ends



Pressure Relief Option

PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 **Valves and Accessories**
- 46 FireLock Automatic Devices and Accessories
- 62 FireLock Automatic Sprinklers
- 78 CPVC FireLock Piping
- 80 Specialty Products
- 82 Pipe Preparation Tools

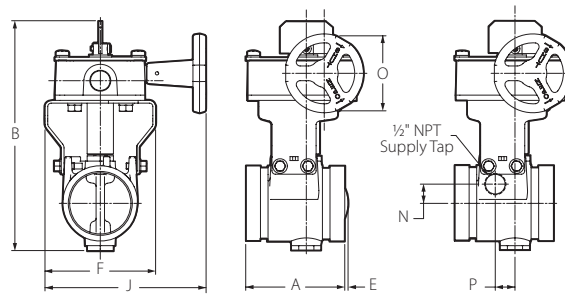
Valves and Accessories

VALVES AND ACCESSORIES

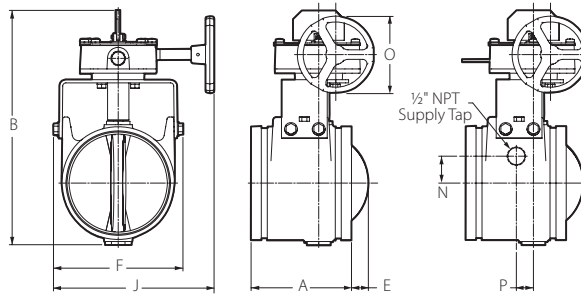
FireLock Butterfly Valve

SERIES 705W

For Complete Information
Request Publication **10.18**



TYPICAL 2½–4"/65–100 mm



TYPICAL 5–12"/139.7–300 mm

Size		Dimensions															Approx. Wgt.
Nominal Size Inches mm	Actual Out. Dia. Inches mm	A E to E Inches mm	B Height Inches mm	C Inches mm	D Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	J Inches mm	K Inches mm	L Inches mm	O Inches mm	M Inches mm	N Inches mm	P Inches mm	Lbs. kg
2½	2.875	3.77	9.80	1.80	3.92	—	2.88	6.97	5.45	7.02	0.97	2.31	4.50	1.44	0.60	1.03	9.1
65	73.0	96	249	46	100	—	73	177	138	178	25	59	114	37	15	26	4.1
76.1 mm	3.000	3.77	9.80	1.80	3.92	—	2.88	6.97	5.45	7.02	0.97	2.31	4.50	1.50	0.60	1.03	9.1
	76.1	96	249	46	100	—	73	177	138	178	25	59	114	38	15	26	4.1
3	3.500	3.77	10.48	2.14	4.22	0.08	3.50	7.61	5.45	7.33	0.97	2.31	4.50	1.75	0.00*	0.80	9.8
80	88.9	96	266	54	107	2	89	193	138	186	25	59	114	45	0	20	4.4
4	4.500	4.63	11.89	2.71	5.09	0.07	6.01	9.05	5.45	8.59	0.97	2.79	4.50	2.60	0.73	1.22	15.3
100	114.3	118	302	69	129	2	153	230	138	218	25	71	114	66	19	31	6.9
139.7 mm	5.500	5.88	12.82	3.12	5.61	0.43	6.01	9.98	5.45	8.59	0.97	3.92	4.50	—	—	—	20.0
	139.7	149	326	79	143	11	153	253	18	218	25	100	114	—	—	—	9.1
5	5.563	5.88	12.82	3.12	5.61	0.43	6.01	9.98	5.45	8.59	0.97	3.92	4.50	—	—	—	20.0
125	141.3	149	326	79	143	11	153	253	138	218	25	100	114	—	—	—	9.1
165.1 mm	6.500	5.88	13.74	3.61	6.06	1.00	7.20	10.92	5.45	9.05	0.97	3.96	4.50	3.25	1.25	1.50	25.0
	165.1	149	349	92	154	25	183	277	138	230	25	101	114	83	32	38	11.3
6	6.625	5.88	13.74	3.61	6.06	1.00	7.20	10.92	5.45	9.05	0.97	3.96	4.50	3.32	1.25	1.50	25.0
150	168.3	149	349	92	154	25	183	277	138	230	25	101	114	84	32	38	11.3
8	8.625	5.33	16.92	4.88	7.94	1.27	10.20	14.06	8.28	13.30	2.05	2.66	6.00	5.10	0.18	0.91	52.0
200	219.1	135	430	124	202	32	259	357	210	338	52	68	152	130	5	23	23.6
10 ‡	10.750	6.40	19.14	5.84	8.69	1.72	12.20	15.77	10.09	16.19	2.05	3.20	9.00	—	—	—	80.0
250	273.0	163	486	148	221	44	310	400	2560	411	52	81	229	—	—	—	36.3
12 ‡	12.750	6.50	21.54	7.04	10.00	2.66	14.25	18.28	10.09	17.22	2.05	3.25	9.00	—	—	—	102.0
300	323.9	165	547	179	254	68	362	464	256	437	52	83	229	—	—	—	46.3

- Weatherproof actuator housing approved for indoor or outdoor use
- Ductile iron body and disc with EPDM disc coating
- Available with a ¼"/6.4 mm NPT supply side tap
- Flow performance exceeds UL Specification 1091 and FM Approval Standard 1112
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 2½ – 12"/65 – 300 mm

* On centerline.

‡ Contact Victaulic Company in Canada for ULC listings.

IMPORTANT NOTES

To prevent rotation of valves, it is recommended that Series 705W 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.

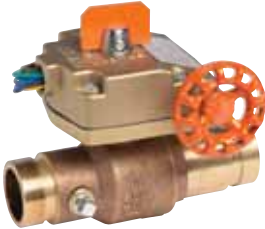
Series 705W valves are designed for ambient weather conditions as opposed to submersible service.

Valves and Accessories

FireLock Ball Valve

SERIES 728

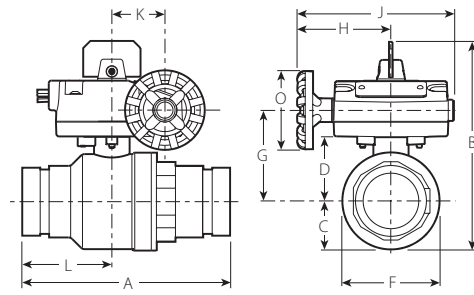
For Complete Information
Request Publication 10.17



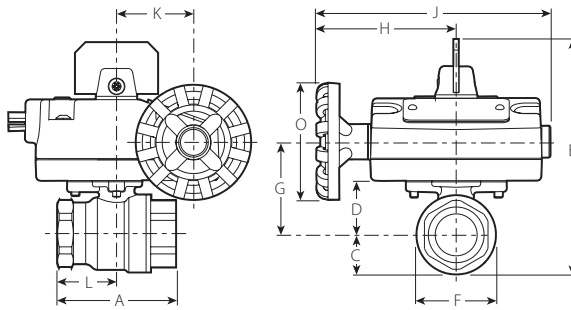
SERIES 728 GROOVED



SERIES 728 THREADED



GROOVED x GROOVED
TYPICAL OF ALL SIZES



THREADED x THREADED
TYPICAL OF ALL SIZES



- Standard port, end-entry valve
- Available with grooved or threaded ends (NPT)
- Approved for indoor and outdoor use
- Pressure rated up to 350 psi/2400 kPa
- Sizes from 1¼ – 2¾/32 – 50 mm for grooved sizes
- Sizes from 1 – 2¾/25 – 50 mm for threaded sizes

Size		Dimensions												Approx. Wgt.
Nominal Size	Actual Out. Dia.	A	B	C	D	F	G	H	J	K	L	O	Lbs.	kg
Inches	mm	E to E	Height	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches	Inches		
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		

GROOVED x GROOVED

1¼	1.660	7.25	6.25	1.15	1.67	2.30	2.58	3.39	5.62	1.86	3.19	2.75	7.5	3.4
32	42.2	184	159	29	42	58	66	86	143	47	81	67		
1½	1.900	7.25	6.75	1.35	1.89	2.71	2.80	3.39	5.62	1.86	3.19	2.75	8.5	3.9
40	48.3	184	171	34	48	69	71	86	143	47	81	67		
2	2.375	7.25	7.50	1.71	2.25	3.16	3.50	3.39	5.62	1.86	3.19	2.75	10.5	4.8
50	60.3	184	191	43	57	80	89	86	143	47	81	67		

THREADED x THREADED

1	1.315	2.84	5.61	0.93	1.22	1.87	2.27	3.39	5.62	1.86	1.42	2.75	5.1	2.3
25	33.4	72	143	24	31	48	58	86	143	47	36	67		
1¼	1.660	3.31	6.04	1.15	1.53	2.30	2.47	3.39	5.62	1.86	1.65	2.75	5.8	2.6
32	42.2	84	153	29	39	58	63	86	143	47	42	67		
1½	1.900	3.66	6.42	1.35	1.71	2.66	2.66	3.39	5.62	1.86	1.83	2.75	6.6	3.0
40	48.3	92	163	34	43	68	68	86	143	47	47	67		
2	2.375	4.33	7.15	1.71	2.07	3.40	3.05	3.39	5.62	1.86	2.16	2.75	8.5	3.9
50	60.3	110	182	43	53	86	77	86	143	47	55	67		

Valves and Accessories

FireLock Check Valve

SERIES 717

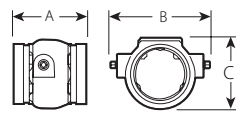
For Complete Information
Request Publication **10.08**



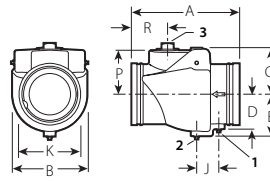
TYPICAL 4 – 12"/100 – 300 mm



- Can be installed in both horizontal or vertical positions
- Sizes from 2½ – 3"/65 – 80 mm are UL/ULC Listed
- Sizes 4"/100 mm and larger are UL/ULC Listed and FM Approved for services up to 250 psi/1725 kPa
- Sizes 4 – 8"/100 – 200 mm (except 165.1 mm) are VdS Approved
- Pressure rated up to 250 psi/1725 kPa
- Sizes from 2½ – 12"/65 – 300 mm

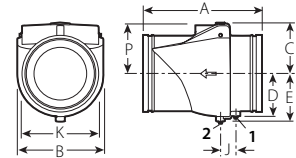


TYPICAL 2½ – 3"/65 – 80 mm SIZES



TYPICAL 4 – 8"/100 – 200 mm 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 – 300 mm SIZES

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

Size		Dimensions										Approx. Wgt. Each
Nominal Size Inches mm	Actual Out. Dia. Inches mm	A E to E Inches mm	B Inches mm	C Inches mm	D Inches mm	E Inches mm	J Inches mm	K Inches mm	P Inches mm	R Inches mm	Lbs. kg	
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	
139.7 mm †	5.500 139.7	10.50 267	6.80 173	4.50 114	4.17 106	4.17 106	2.15 55	5.88 149	4.08 104	3.98 101	27.0 12.3	
5 † 125	5.563 141.3	10.50 267	6.80 173	4.50 114	4.17 106	4.17 106	2.15 55	5.88 149	4.08 104	3.98 101	27.0 12.3	
165.1 mm	6.500 165.1	11.50 292	8.00 203	5.00 127	4.50 114	4.50 114	2.38 61	6.67 169	4.73 120	3.89 99	38.0 17.2	
6 † 150	6.625 168.3	11.50 292	8.00 203	5.00 127	4.50 114	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	8.06 206	6.91 176	7.64 194	2.51 64	12.81 925	7.73 196	—	140.0 63.5	

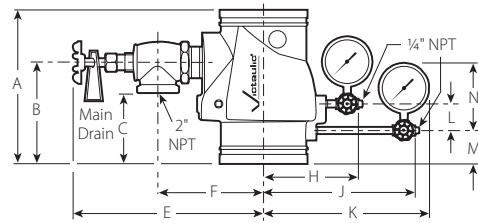
† VdS Approved.

Valves and Accessories

FireLock Riser Check Valve

SERIES 717R

For Complete Information
Request Publication 10.09



TYPICAL FOR ALL SIZES

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

- Rubber encapsulated disc provides superior corrosion resistance
- Can be installed in both horizontal or vertical positions
- Accepts a riser check kit
- Pressure rated up to 200psi/1375kPa for UL and 250psi/1725kPa for FM
- Sizes from 4 – 8"/100 – 200mm

Valves and Accessories

OS&Y Gate Valve and NRS Gate Valve

SERIES 771H

OS&Y Gate Valve (Grv. x Grv.)

SERIES 771F

OS&Y Gate Valve (Grv. x Flange)

SERIES 772H

NRS Gate Valve (Grv. x Grv.)

SERIES 772F

NRS Gate Valve (Grv. x Flange)

For Complete Information
Request Publication 10.92



SERIES 771H



SERIES 771F



SERIES 772H

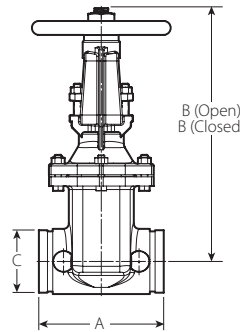


SERIES 772F

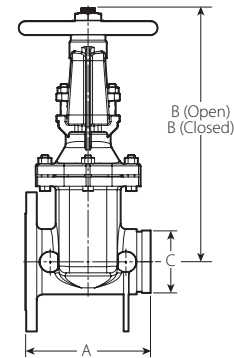
Size		Series 771H OS & Y Grv. x Grv. Dimensions					Series 771F OS & Y Grv. x Flange Dimensions					Series 772H NRS Grv. x Grv. Dimensions					Series 772F NRS Grv. x Flange Dimensions					Approximate Weight Each			
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm		B Height 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		Series 771H Lbs. kg	Series 772H Lbs. kg	Series 771F Lbs. kg	Series 772F Lbs. kg	
		Open	Closed	Open	Closed		Open	Closed	Open	Closed		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						
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						
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						
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
- Series 771H is groove x groove and Series 771F is groove x flange
- Pressure rated up to 200 psi/1375 kPa
- Sizes from 2½ – 12"/65 – 300 mm



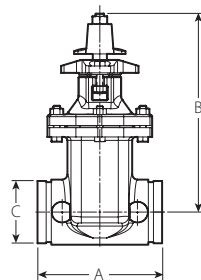
SERIES 771H OS&Y GATE VALVE



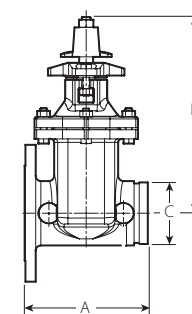
SERIES 771F OS&Y GATE VALVE

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
- Series 772H is groove x groove and Series 772F is groove x flange
- Pressure rated up to 200 psi/1375 kPa
- Sizes from 2½ – 12"/65 – 300 mm



SERIES 772H NRS GATE VALE



SERIES 772F NRS GATE VALE

Valves and Accessories

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**



- Sizes from
3 – 8⁷/₈ – 200mm

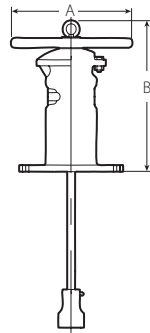


SERIES 773

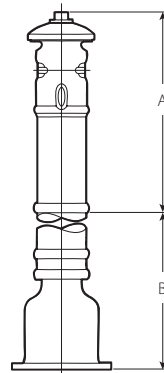


SERIES 774

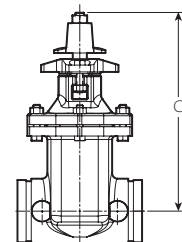
Post Indicator	Dimensions			Approx. Wgt. Each
	A Inches mm	B Minimum Inches mm	B Maximum Inches mm	Lbs. kg
Series 773 Wall	14.00 356	18.50 470	—	90.0 40.8
Series 774 Upright	36.20 919	32.00 813	56.00 1422	250.0 113.4



SERIES 773
WALL POST INDICATOR



SERIES 774
UPRIGHT POST INDICATOR



SERIES 772H AND
SERIES 772F

POST INDICATOR – TYPICAL DIMENSIONS (FOR UPRIGHT & WALL)

Size	Dimensions	
Nominal Size Inches mm	C Centerline to Top of the Operating Nut Inches mm	Approximate Number of Turns to Open
2½ 65	10.00 254	7
3 80	13.86 352	8
4 100	14.33 364	11
165.1 mm	18.27 464	13
6 150	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

VALVES AND ACCESSORIES

Riser Manifold Assembly

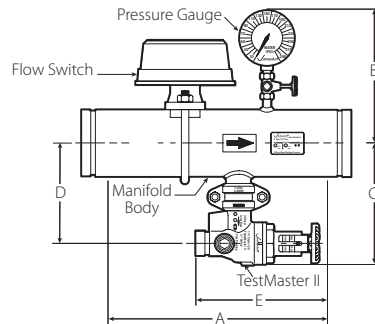
STYLE 747

For Complete Information
Request Publication **10.96**



- Install in zoned wet sprinkler systems or on system risers
- Includes the manifold body, a UL Listed and FM Approved flow switch, a pressure gauge and a Style 720 TestMaster II alarm test module with standard 1/2"/12.7 mm orifice (optional 17/32"/13.5 mm orifice available upon request)
- Available with grooved ends for easy installation in the horizontal or vertical up-flow positions
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 2 – 6" / 50 – 150 mm

Size		Drain Size Inches mm	Dimensions					Approx. Weight Each Lbs. kg
Nominal Size Inches mm	Actual Outside Diameter Inches mm		A Inches mm	B Inches mm	C Inches mm	D Inches mm	E Inches mm	
2 50	2.375 60.3	1 1/4 42	16.00 406	7.90 201	7.10 180	5.70 145	8.90 226	19.9 9.0
2 1/2 65	2.875 73.0	1 1/4 42	16.00 406	8.10 206	7.40 188	5.90 150	8.90 226	22.7 10.3
3 80	3.500 88.9	1 1/4 42	16.00 406	8.40 213	7.70 196	6.20 158	8.90 226	25.6 11.6
4 100	4.500 114.3	2 60	16.00 406	8.90 226	8.90 226	7.20 183	9.10 231	33.4 15.2
6 150	6.625 168.3	2 60	16.00 406	10.00 254	9.90 251	8.30 211	9.10 231	45.8 20.8



TYPICAL FOR ALL SIZES

Valves and Accessories

Riser Manifold Assembly

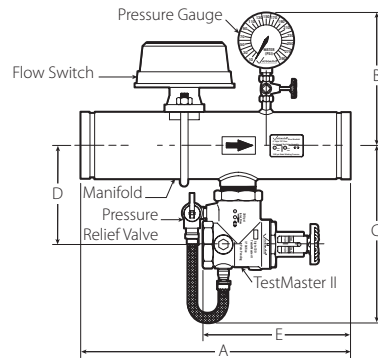
STYLE 747P Pressure Relief Option

For Complete Information
Request Publication **10.98**



- Install in zoned wet sprinkler systems or on system risers
- Includes the manifold body, a flow switch, a pressure gauge and a Style 720P TestMaster II alarm test module with standard 1/2"/12.7 mm orifice (optional 17/32"/13.5 mm orifice available upon request)
- Available with grooved ends for easy installation
- Pressure rated up to 175 psi/1200 kPa
- Sizes from 2 – 6"/50 – 150 mm

Size		Drain Size	Dimensions					Approx. Weight Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	Inches mm	A Inches mm	B Inches mm	C Inches mm	D Inches mm	E Inches mm	Lbs. kg
2 50	2.375 60.3	1 1/4 42	16.00 406	7.90 201	10.70 272	5.19 132	8.38 213	21.2 9.6
2 1/2 65	2.875 73.0	1 1/4 42	16.00 406	8.10 206	11.00 279	5.40 137	8.38 213	24.4 11.0
3 80	3.500 88.9	1 1/4 42	16.00 406	8.40 213	11.30 287	5.70 145	8.38 213	27.3 12.4
4 100	4.500 114.3	2 60	16.00 406	8.90 226	12.00 305	6.65 169	8.38 213	35.1 15.9
6 150	6.625 168.3	2 60	16.00 406	10.00 254	13.00 330	7.66 194	8.38 213	47.5 21.5



TYPICAL OF ALL SIZES

Valves and Accessories

TestMaster II Alarm Test Module

STYLE 720

For Complete Information Request Publication 10.22

VALVES AND ACCESSORIES



STYLE 720 GROOVED ENDS



STYLE 720 THREADED ENDS



STYLE 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
- 1/2"/12.7 mm orifice is factory fitted (optional 17/32"/13.5 mm orifice available upon request)
- Can be supplied with a pressure gauge port tapping
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1 1/4 - 2" / 32 - 50 mm for grooved end
- Sizes from 1 - 2" / 25 - 50 mm for threaded end

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

STYLE 720 GROOVED ENDS

1 1/4 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
1 1/2 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

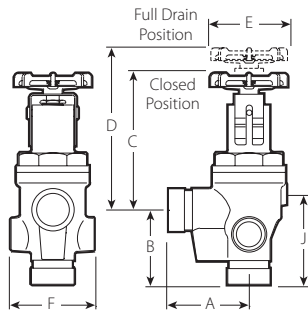
STYLE 720 THREADED ENDS

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
1 1/4 * 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
1 1/2 * 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

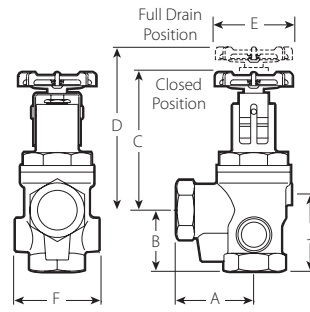
* Not available in Canada.

STYLE 720 WITH PRESSURE RELIEF VALVE

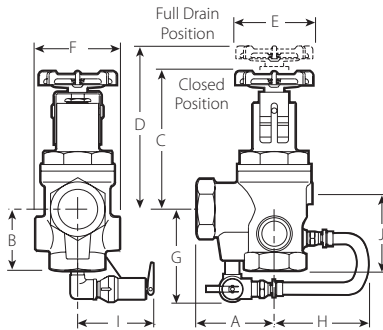
1 25	1.315 33.7	3.00 76	2.38 60	5.47 139	6.43 163	2.68 68	3.25 83	3.90 99.06	4.95 125.73	4.00 101.6	3.00 76	8.3 3.8
1 1/4 32	1.660 42.4	3.00 76	2.38 60	5.47 139	6.43 163	2.68 68	3.25 83	3.90 99.06	4.95 125.73	4.00 101.6	3.00 76	8.0 3.8
1 1/2 40	1.900 48.3	3.63 92	2.38 60	5.47 139	6.51 165	2.68 68	3.75 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



STYLE 720 GROOVED ENDS



STYLE 720 THREADED ENDS



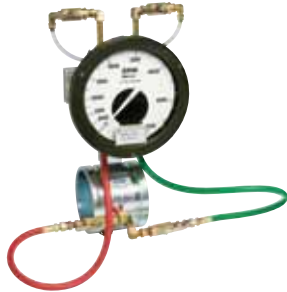
STYLE 720 WITH PRESSURE RELIEF VALVE

Valves and Accessories

Fire Pump Test Meter

STYLE 735

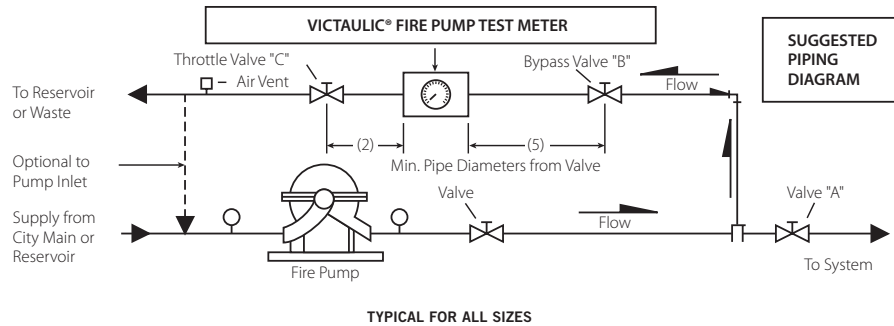
For Complete Information
Request Publication 10.11



- 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 – 300mm

Size		Nominal Flow Rate GPM m ³ /hr.	Meter Range * Minimum – Maximum		Dimensions End to End Inches mm	Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Dia. Inches mm		Model "L" GPM m ³ /hr.	Model "S" GPM m ³ /hr.		Model "L" Lbs. kg	Model "S" Lbs. kg
2½	2.875	100	40 – 200	60 – 200	4.00	14.0	9.0
65	73.0	23	9 – 45	14 – 45	102	6.4	4.1
3	3.500	200	100 – 400	140 – 400	4.25	15.0	10.0
80	88.9	45	23 – 91	32 – 91	108	6.8	4.5
4	4.500	250	100 – 500	160 – 500	3.75	17.0	12.0
100	114.3	57	23 – 114	36 – 114	95	7.7	5.4
4	4.500	300	100 – 600	190 – 600	3.75	17.0	12.0
100	114.3	68	23 – 136	43 – 136	95	7.7	5.4
4	4.500	450	200 – 900	300 – 900	3.75	17.0	12.0
100	114.3	102	45 – 204	68 – 204	95	7.7	5.4
5	5.563	500	200 – 1000	300 – 1000	5.00	18.0	13.0
125	141.3	114	45 – 227	68 – 227	127	8.2	5.9
6	6.625	750	300 – 1500	450 – 1500	6.00	20.0	15.0
150	168.3	170	68 – 341	102 – 341	152	9.1	6.8
6	6.625	1000	400 – 2000	600 – 2000	6.00	20.0	15.0
150	168.3	227	91 – 454	136 – 454	152	9.1	6.8
6	6.625	1250	500 – 2500	800 – 2500	6.00	20.0	15.0
150	168.3	284	114 – 568	182 – 568	152	9.1	6.8
8	8.625	1500	600 – 3000	900 – 3000	7.00	27.0	22.0
200	219.1	341	141 – 681	204 – 681	178	12.3	10.0
8	8.625	2000	1000 – 4000	1400 – 4000	7.00	27.0	22.0
200	219.1	454	227 – 908	318 – 908	178	12.3	10.0
8	8.625	2500	1000 – 5000	1600 – 5000	7.00	27.0	22.0
200	219.1	568	227 – 1135	363 – 1135	178	12.3	10.0
8	8.625	3000	1000 – 6000	1900 – 6000	7.00	27.0	22.0
200	219.1	681	227 – 1363	431 – 1363	178	12.3	10.0
10	10.750	3500	2000 – 7000	2500 – 7000	8.00	38.0	33.0
250	273.0	795	454 – 1590	568 – 1590	203	17.2	15.0
10	10.750	4000	2000 – 8000	2500 – 8000	8.00	38.0	33.0
250	273.0	908	454 – 1817	568 – 1817	203	17.2	15.0
10	10.750	4500	2000 – 9000	3000 – 9000	8.00	38.0	33.0
250	273.0	1022	454 – 2045	681 – 2045	203	17.2	15.0
12	12.750	5000	2000 – 10000	3000 – 10000	12.00	71.0	66.0
300	323.9	1135	454 – 2272	681 – 2272	305	32.2	29.9

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



FireLock Automatic Devices and Accessories

When Victaulic introduced its first line of FireLock dry, deluge and preaction devices, we raised expectations for size and performance standards. Smaller, lighter and easier to install than previous valves on the market, FireLock devices offered owners, engineers and installers a significant advance in valve design.

Victaulic continues to push the envelope of product development. The new line of FireLock NXT* valves 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 valves deliver greater operational reliability and are easier to install, service and maintain. In addition the valves 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.

* Not available in all areas. Contact your local Victaulic representative for details.

FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock NXT™
Dry System
Check Valve †
SERIES 768, PG. 48



FireLock NXT
Deluge System
Check Valve †
SERIES 769, PG. 49



FireLock NXT
Preaction System
Check Valve †
SERIES 769, PG. 50



FireLock Alarm
Check Valve
SERIES 751, PG. 51



FireLock
Dry System
Check Valve †‡
SERIES 756, PG. 53



FireLock
Deluge System
Check Valve †‡
SERIES 758, PG. 54



FireLock
Preaction System
Check Valve †‡
SERIES 758, PG. 55



FireLock Alarm
Check Valve
SERIES 759, PG. 52



† Shown with Vic-Quick riser optional trim configuration. ‡ Not available in North America.

FireLock Automatic Devices and Accessories

The innovative design of the new 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.



The low pressure actuator used on NXT devices eliminates the air-to-water differential. NXT valves feature a single set point of 13 psi/ 90 kPa for water supply systems up to 300 psi/2065 kPa.



The 3-in-1 device combines a check valve, a strainer and a restrictor into a single unit.



The air feed manifold was specifically designed to reduce the room needed for this component while improving performance.

PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 **FireLock Automatic Devices and Accessories**
- 62 FireLock Automatic Sprinklers
- 78 CPVC FireLock Piping
- 80 Specialty Products
- 82 Pipe Preparation Tools

Vic®-Quick Riser

FOR SERIES 768 DRY (SHOWN), SERIES 769 DELUGE AND SERIES 769 PRE-ACTION, PG. 56



FireLock Fire-Pac

SERIES 745, PG. 58



Vic-Quick Riser ‡

FOR SERIES 756 DRY (SHOWN), SERIES 758 DELUGE AND SERIES 758 PRE-ACTION, REQUEST PUBLICATION 30.20



Accessories

STANDARD, PG. 60

- Series 753-A Dry Actuator/Anti-Flood Device
- 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. 60

- Series 752 Retard Chamber
- Series 760 Water Motor Alarm
- Dry 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

ELECTRICAL, PG. 60

- Supervisory Switches
- Alarm Pressure Switches

NOTE:

Valves supplied in Europe are red. Trim packages may differ from those shown here.

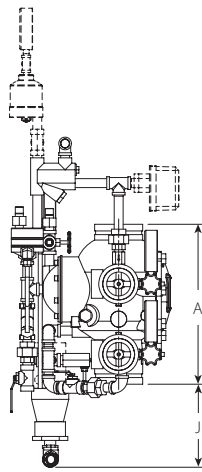
‡ Not available in North America.

FireLock Automatic Devices and Accessories

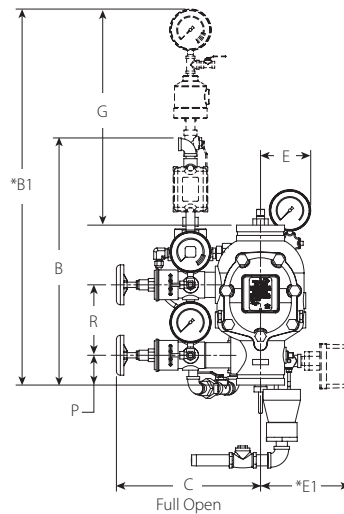
FireLock NXT Dry System Check Valve

SERIES 768

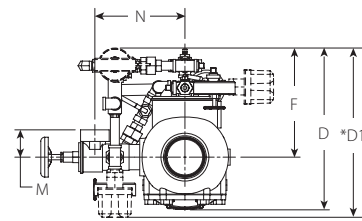
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Request Publication **30.80**



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FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

Size	Dimensions																		Approximate Weight Each	
	Nominal Size Inches mm	Actual Outside Diameter Inches mm	A Inches mm	B Inches mm	B1* Inches mm	C Inches mm	D Inches mm	D1* Inches mm	E Inches mm	E1* Inches mm	F Inches mm	G Inches mm	J Inches mm	M Inches mm	N Inches mm	P Inches mm	R Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1½ 40	1.900 48.3	9.00 228.60	18.25 463	30.25 768	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	21.25 539	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	16.7 7.6	43.0 19.5		
2 50	2.375 60.3	9.00 228.60	18.25 463	30.25 768	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	21.25 539	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	17.0 7.7	43.3 19.6		
2½ 65	2.875 73.0	12.61 320.29	21.75 552	33.75 857	13.50 342	16.00 406	—	5.25 133	9.00 228	9.25 234	21.25 539	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
76.1 mm	3.000 76.1	12.61 320.29	21.75 552	33.75 857	13.50 342	16.00 406	—	5.25 133	9.00 228	9.25 234	21.25 539	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
3 80	3.500 88.9	12.61 320.29	21.75 552	33.75 857	13.50 342	16.00 406	—	5.25 133	9.00 228	9.25 234	21.25 539	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
4 100	4.500 114.3	15.03 381.76	23.75 603	36.00 914	15.00 381	15.75 400	16.50 419	5.25 133	9.00 228	10.75 273	21.00 533	7.80 198.12	2.56 65.02	8.46 214.88	2.80 71.12	6.62 168.14	59.0 26.7	95.0 43.0		
165.1 mm	6.500 165.1	16.00 406.40	24.25 615	36.50 927	15.50 393	17.00 431	17.25 438	5.25 133	8.50 215	11.50 292	20.50 520	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	116.0 52.6		
6 150	6.625 168.3	16.00 406.40	24.25 615	36.50 927	15.50 393	17.00 431	17.25 438	5.25 133	8.50 215	11.50 292	20.50 520	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	116.0 52.6		
8 200	8.625 219.1	17.50 444.50	24.00 609	40.00 1016	16.75 425	20.00 508	—	6.25 158	8.75 222	12.75 323	18.50 469	7.59 192.78	2.56 65.02	10.21 259.33	3.02 76.70	6.62 168.14	122.0 55.3	158.0 71.6		

- 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 dry-pipe sprinkler systems
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 58
- 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. 60
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½ – 8" / 40 – 200 mm

* Takes optional equipment into account.

IMPORTANT NOTES:

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

Components shown as dotted lines denote optional equipment.

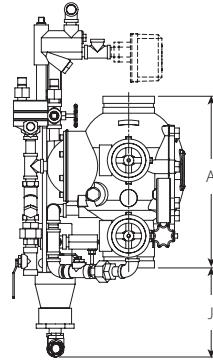
Optional drain connection kit is shown for reference and takeout dimensions.

FireLock Automatic Devices and Accessories

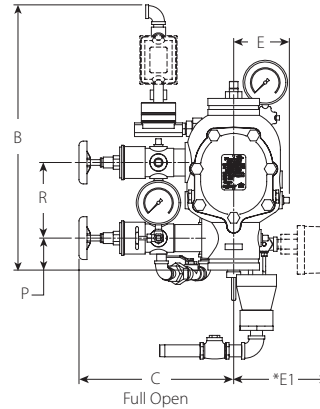
FireLock NXT Deluge System Check Valve

SERIES 769

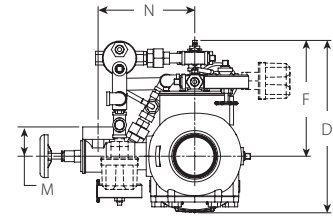
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Size		Dimensions													Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A Inches mm	B Inches mm	C Inches mm	D Inches mm	E Inches mm	E1* Inches mm	F Inches mm	J Inches mm	M Inches mm	N Inches mm	P Inches mm	R Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1½ 40	1.900 48.3	9.00 228.60	19.50 495	13.75 349	12.50 317	5.25 133	8.50 215	9.25 234	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	16.7 7.6	43.0 19.5	
2 50	2.375 60.3	9.00 228.60	19.50 495	13.75 349	12.50 317	5.25 133	8.50 215	9.25 234	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	17.0 7.7	43.3 19.6	
2½ 65	2.875 73.0	12.61 320.29	21.75 552	13.50 342	13.50 342	5.25 133	9.00 228	9.25 234	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5	
76.1 mm	3.000 76.1	12.61 320.29	21.75 552	13.50 342	13.50 342	5.25 133	9.00 228	9.25 234	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5	
3 80	3.500 88.9	12.61 320.29	21.75 552	13.50 342	13.50 342	5.25 133	9.00 228	9.25 234	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5	
4 100	4.500 114.3	15.03 381.76	23.75 603	15.00 381	15.75 400	5.50 139	9.00 228	10.75 273	7.80 198.12	2.56 65.02	8.46 214.88	2.80 71.12	6.62 168.14	59.0 26.7	95.0 43.0	
165.1 mm	6.500 165.1	16.00 406.40	24.00 609	15.50 393	16.75 425	6.00 152	8.50 215	11.25 285	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	116.0 52.6	
6 150	6.625 168.3	16.00 406.40	24.00 609	15.50 393	16.75 425	6.00 152	8.50 215	11.25 285	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	116.0 52.6	
8 200	8.625 219.1	17.50 444.50	24.00 609	16.75 425	19.75 501	7.00 177	8.75 222	12.75 323	7.59 192.78	2.56 65.02	10.21 259.33	3.02 76.70	6.62 168.14	122.0 55.3	158.0 71.6	

- 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. 58
- For available accessories and actuators, see pg. 60
- Pressure rated up to 300 psi/2065 kPa
- Sizes from 1½ – 8"/40 – 200mm

* Takes optional equipment into account.

IMPORTANT NOTES:

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

Available wet pilot, dry pilot with the Series 776 low pressure actuator, or electronically actuated with the Series 753E solenoid 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.

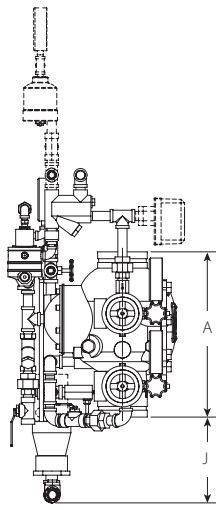
FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Automatic Devices and Accessories

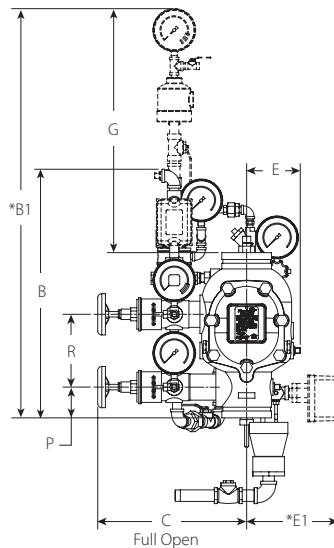
FireLock NXT Preaction System Check Valve

SERIES 769

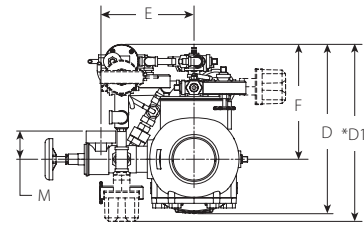
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FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

Size	Dimensions																		Approximate Weight Each	
	Nominal Size Inches mm	Actual Outside Diameter Inches mm	A Inches mm	B Inches mm	B1* Inches mm	C Inches mm	D Inches mm	D1* Inches mm	E Inches mm	E1* Inches mm	F Inches mm	G Inches mm	J Inches mm	M Inches mm	N Inches mm	P Inches mm	R Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1½ 40	1.900 48.3	9.00 228.60	19.00 482	33.50 850	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	24.50 622	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	16.7 7.6	43.0 19.5		
2 50	2.375 60.3	9.00 228.60	19.00 482	33.50 850	13.75 349	16.00 406	—	5.25 133	8.50 215	9.50 241	24.50 622	8.59 218.18	1.25 31.75	6.98 177.29	1.90 48.26	3.38 85.85	17.0 7.7	43.3 19.6		
2½ 65	2.875 73.0	12.61 320.29	20.75 527	35.25 895	13.50 342	16.25 412	—	5.25 133	9.00 228	9.75 247	22.75 577	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
76.1 mm	3.000 76.1	12.61 320.29	20.75 527	35.25 895	13.50 342	16.25 412	—	5.25 133	9.00 228	9.75 247	22.75 577	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
3 80	3.500 88.9	12.61 320.29	20.75 527	35.25 895	13.50 342	16.25 412	—	5.25 133	9.00 228	9.75 247	22.75 577	8.48 215.39	1.70 43.18	6.93 176.02	2.50 63.50	5.63 143.00	41.0 18.7	65.0 29.5		
4 100	4.500 114.3	15.03 381.76	23.25 590	37.75 958	15.00 381	16.25 412	17.25 438	5.50 139	9.00 228	11.25 285	22.75 577	7.80 198.12	2.56 65.02	8.46 214.88	2.80 71.12	6.62 168.14	59.0 26.7	100.0 43.3		
165.1 mm	6.500 165.1	16.00 406.40	23.25 590	37.75 958	15.50 393	17.25 438	17.50 444	6.00 152	8.50 215	11.50 292	21.75 552	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	121.0 54.8		
6 150	6.625 168.3	16.00 406.40	23.25 590	37.75 958	15.50 393	17.25 438	17.50 444	6.00 152	8.50 215	11.50 292	21.75 552	7.79 197.86	2.56 65.02	8.84 224.53	2.80 71.12	6.62 168.14	80.0 36.2	121.0 54.8		
8 200	8.625 219.1	17.50 444.50	23.00 584	37.75 958	16.75 425	20.00 508	—	7.00 177	8.75 222	13.00 330	20.25 514	7.59 192.78	2.56 65.02	10.21 259.33	3.02 76.70	6.62 168.14	122.0 55.3	163.0 73.9		

- 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. 58
- For available accessories and actuators, see pg. 60
- Pressure rated up to 300psi/2065 kPa
- Sizes from 1½ – 8”/40 – 200 mm

* Takes optional equipment into account.

IMPORTANT NOTES:

The drawings shown above reflect the pneumatic/electric 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 Alarm Check Valve

SERIES 751

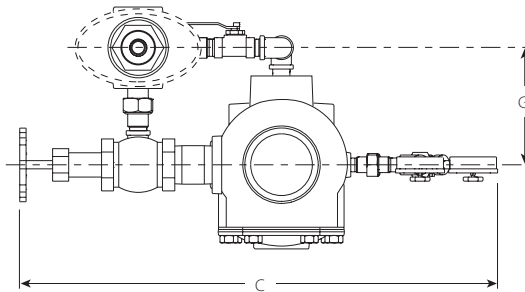
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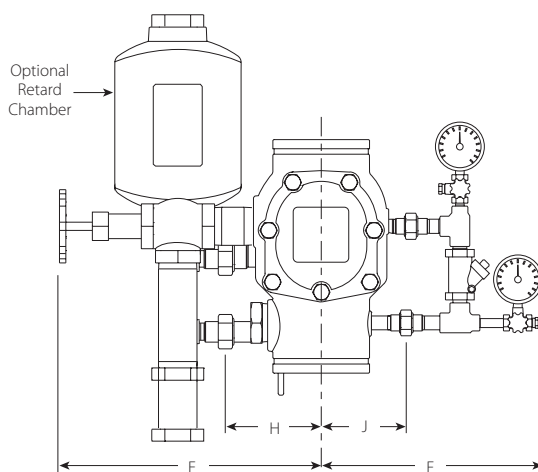
Size		Dimensions										Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	J Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1 1/2 40	1.900 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	
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	
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	
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	



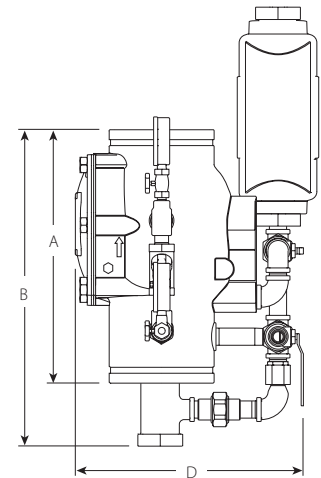
- Prevents the reverse flow of water from the system piping to the water supply
- The bypass line allows pressure surges to enter the system without causing false alarms
- Can be installed in both horizontal or vertical positions
- Excess pressure pump trim option available upon request
- For available accessories, see pg. 60
- Pressure rated up to 300 psi/2065 kPa for sizes 1 1/2 – 6”/40 – 150 mm
- Pressure rated up to 225 psi/1550 kPa for size 8”/200 mm



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FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Automatic Devices and Accessories

FireLock Alarm Check Valve

SERIES 759

For Complete Information
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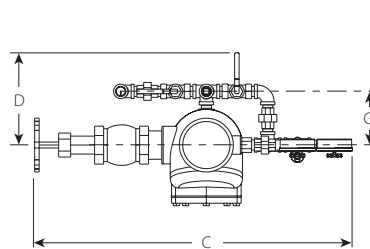
- Can be installed in both horizontal or vertical positions
- Also available in JIS standard sizes
- Excess pressure pump trim option available upon request
- For available accessories, see pg. 60
- Pressure rated up to 175 psi/1200 kPa
- Sizes from 3 – 8⁷/₈ – 200mm

FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

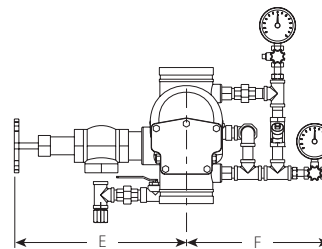
Size		Dimensions										Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	

STANDARD TRIM

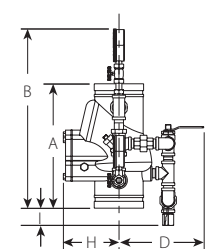
76.1 mm	3.000 76.1	10.50 266.7	17.00 431.8	24.00 609.6	9.00 228.6	11.00 279.4	13.00 330.2	5.00 127.0	5.00 127.0	2.00 50.8	17.0 7.7	29.0 13.2
3 80	3.500 88.9	10.50 266.7	17.00 431.8	24.00 609.6	9.00 228.6	11.00 279.4	13.00 330.2	5.00 127.0	5.00 127.0	2.00 50.8	17.0 7.7	29.0 13.2
4 100	4.500 114.3	11.37 288.5	17.00 431.8	27.00 685.8	9.00 228.6	15.00 381.0	12.00 304.8	5.00 127.0	6.00 152.4	2.00 50.8	30.0 13.6	40.0 18.1
165.1 mm	6.500 165.1	14.10 358.1	19.00 482.6	30.00 762.0	10.00 254.0	16.00 406.4	14.00 355.6	6.00 152.4	7.00 177.8	1.00 25.4	63.0 28.6	73.0 34.0
6 150	6.625 168.3	14.10 358.1	19.00 482.6	30.00 762.0	10.00 254.0	16.00 406.4	14.00 355.6	6.00 152.4	7.00 177.8	1.00 25.4	63.0 28.6	73.0 34.0
8 200	8.625 219.1	17.00 431.8	22.00 558.8	32.00 812.8	10.00 254.0	16.00 406.4	16.00 406.4	7.00 177.8	8.00 203.2	0.50 12.7	94.0 42.6	109.0 49.4



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

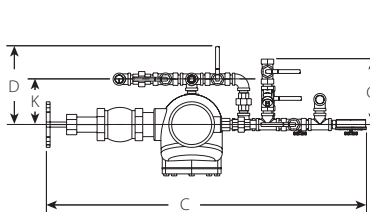


TYPICAL FOR ALL SIZES

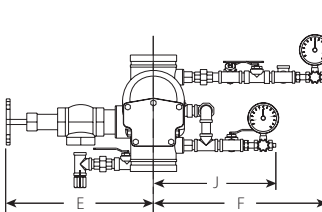
Size		Dimensions											Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	J Inches mm	K Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg

EXCESS PUMP TRIM

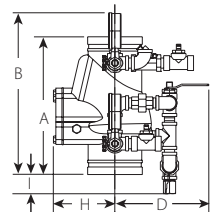
76.1 mm	3.000 76.1	10.50 266.7	12.00 304.8	28.00 711.2	8.00 203.2	12.00 304.8	17.00 431.8	7.00 177.8	5.00 127.0	2.00 50.8	13.00 330.2	5.00 127.0	17.0 7.7	29.0 13.2
3 80	3.500 88.9	10.50 266.7	12.00 304.8	28.00 711.2	8.00 203.2	12.00 304.8	17.00 431.8	7.00 177.8	5.00 127.0	2.00 50.8	13.00 330.2	5.00 127.0	17.0 7.7	29.0 13.2
4 100	4.500 114.3	11.37 288.5	14.00 355.6	32.00 812.8	9.00 228.6	15.00 381.0	17.00 431.8	7.00 177.8	6.00 152.4	2.00 50.8	12.00 304.8	5.00 127.0	30.0 13.6	40.0 18.1
165.1 mm	6.500 165.1	14.10 358.1	16.00 406.4	36.00 914.4	10.00 254.0	16.00 406.4	20.00 508.0	9.00 228.6	7.00 177.8	1.00 25.4	14.00 355.6	6.00 152.4	63.0 28.6	73.0 34.0
6 150	6.625 168.3	14.10 358.1	16.00 406.4	36.00 914.4	10.00 254.0	16.00 406.4	20.00 508.0	9.00 228.6	7.00 177.8	1.00 25.4	14.00 355.6	6.00 152.4	63.0 28.6	73.0 34.0
8 200	8.625 219.1	17.00 431.8	18.00 457.2	38.00 965.2	10.00 254.0	17.00 431.8	21.00 533.4	9.00 228.6	8.00 203.2	0.50 12.7	15.00 381.0	7.00 177.8	94.0 42.6	109.0 49.4



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

FireLock Automatic Devices and Accessories

FireLock Dry System Check Valve

SERIES 756

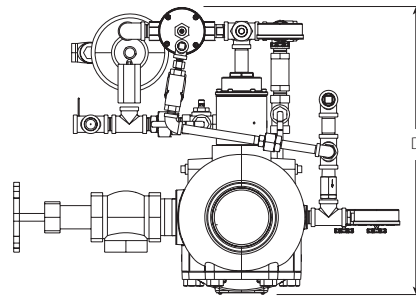
For Complete Information
Request Publication 30.03



- 8-to-1 differential, latched clapper valve that separates system water from dry pipe sprinkler systems
- With optional accelerator the valve can be configured to respond faster for use in larger systems
- Available bare, pretrimmed, as a Vic®-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 58
- For available accessories and actuators, see pg. 60
- Pressure rated up to 300 psi/2065 kPa for sizes 1½ – 2”/40 – 50 mm

NOT CURRENTLY AVAILABLE IN ALL AREAS. CONTACT YOUR LOCAL VICTAULIC REPRESENTATIVE FOR AVAILABILITY.

Size		Dimensions										Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1½ 40	1.900 48.3	9.00 228.60	21.00 533	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	16.7 7.6	43.0 19.5	
2 50	2.375 60.3	9.00 228.60	21.00 533	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	17.0 7.7	43.3 19.6	

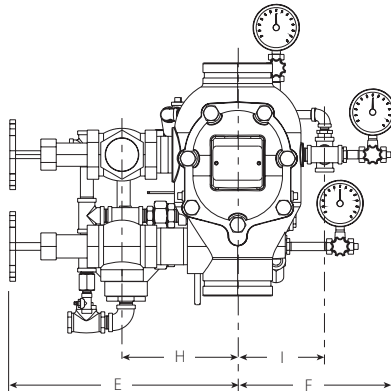


TYPICAL FOR ALL SIZES

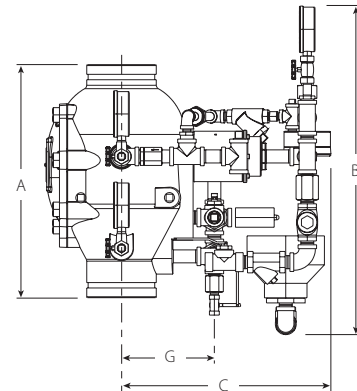
IMPORTANT NOTES:

The drawings shown reflect the dry pilot trim with Series 753A dry actuator.

Series 776 low pressure actuator is standard for Europe and is available as an option for all other areas.



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Automatic Devices and Accessories

FireLock Deluge System Check Valve

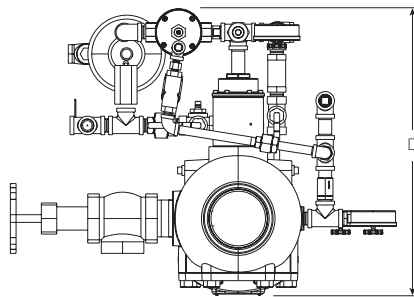
SERIES 758

For Complete Information
Request Publication 30.04



NOT CURRENTLY AVAILABLE IN ALL AREAS. CONTACT YOUR LOCAL VICTAULIC REPRESENTATIVE FOR AVAILABILITY.

Size		Dimensions									Approx. Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	9.00 228.60	21.00 533	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	16.7 7.6	43.0 19.5
2 50	2.375 60.3	9.00 228.60	21.00 533	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	17.0 7.7	43.3 19.6

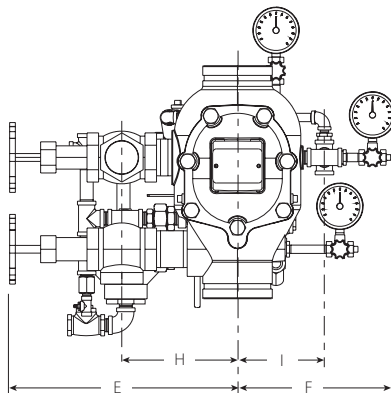


TYPICAL FOR ALL SIZES

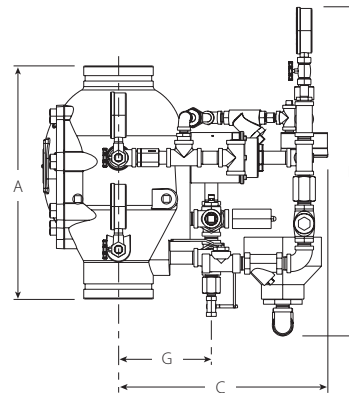
IMPORTANT NOTES:

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

Available wet pilot, dry pilot with the Series 753A dry or Series 776 low pressure actuator/anti-flood device, or electronically actuated with the Series 753E solenoid actuator.



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES



- Low differential, latched clapper valve that separates system water from deluge pipe sprinkler systems
- Available in pneumatic, hydraulic, and electric actuation methods
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 58
- For available accessories and actuators, see pg. 60
- Pressure rated up to 300 psi/2065 kPa for sizes 1½ – 2" / 40 – 50 mm

FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Automatic Devices and Accessories

FireLock Preaction System Check Valve

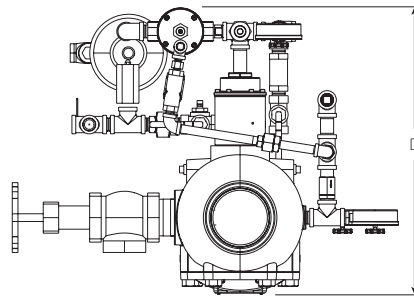
SERIES 758

For Complete Information
Request Publication 30.05



NOT CURRENTLY AVAILABLE IN ALL AREAS. CONTACT YOUR LOCAL VICTAULIC REPRESENTATIVE FOR AVAILABILITY.

Size		Dimensions										Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1 1/2 40	1.900 48.3	9.00 228.60	32.00 813	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	16.7 7.6	43.0 19.5	
2 50	2.375 60.3	9.00 228.60	32.00 813	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	17.0 7.7	43.3 19.6	



TYPICAL FOR ALL SIZES

IMPORTANT NOTES:

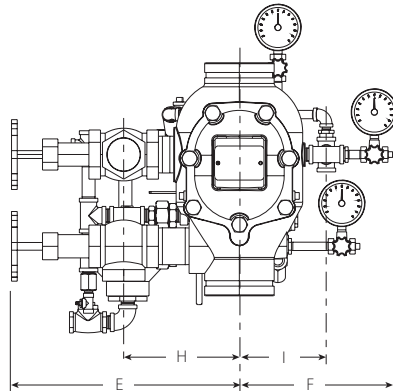
The drawings shown reflect the double interlock pneumatic/ electric trim with Series 776 low pressure actuator.

Available in the following trim configurations:

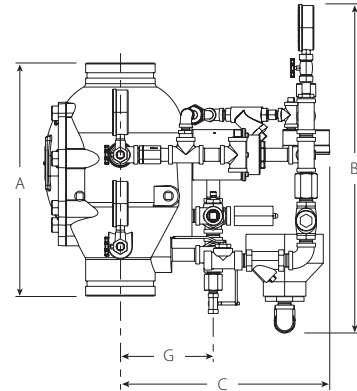
- Non-interlock
 - Pneumatic release
 - Electric release
- Single-interlock
 - Pneumatic release
 - Electric release
- Double-interlock
 - Pneumatic/electric release
 - Electric/pneumatic/electric release
 - Pneumatic/pneumatic release



- Low differential, latched clapper valve that controls the water supply entry into a preaction system piping and sprinklers
- Available in non-interlock, single-interlock, or double-interlock configurations
- Available bare, pretrimmed, as a Vic-Quick riser or in a Series 745 FireLock Fire-Pac cabinet, pg. 58
- For available accessories and actuators, see pg. 60
- Pressure rated up to 300 psi/2065 kPa for sizes 1 1/2 - 2 1/4 - 50 mm



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

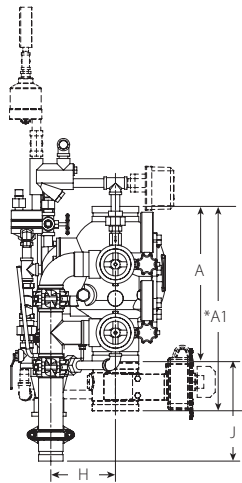
FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Automatic Devices and Accessories

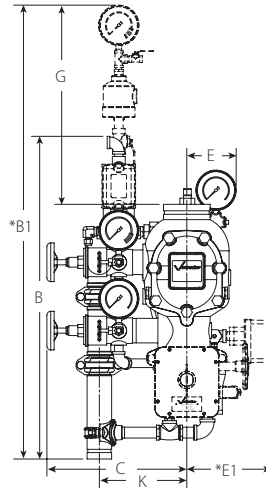
Vic-Quick Riser

For NXT Series 768
Dry System Check Valve

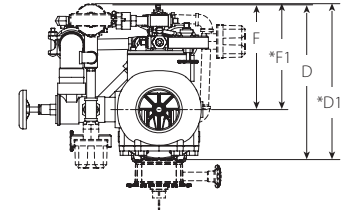
For Complete Information
Request Publication 30.20



UL US FM LPCB TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES



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FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

Size	Dimensions																Approximate Weight Each		
	Nominal Size Inches mm	Actual Outside Diameter Inches mm	A Inches mm	A1 * Inches mm	B Inches mm	B1 * Inches mm	C Inches mm	D Inches mm	D1 * Inches mm	E Inches mm	E1 * Inches mm	F Inches mm	F1 * Inches mm	G Inches mm	H Inches mm	J Inches mm	K Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg
1½ 40	1.900 48.3	2.286 58.1	9.00 228.60	16.37 415.80	28.25 718	34.50 876	10.75 273	12.50 318	16.75 425	5.25 133	8.75 222	9.25 235	11.00 279	16.25 413	3.04 77.22	9.17 232.92	6.98 177.29	16.7 7.6	43.0 19.5
2 50	2.375 60.3	2.286 58.1	9.00 228.60	16.37 415.80	27.25 692	37.00 940	10.75 273	12.50 318	16.75 425	5.25 133	8.75 222	9.25 235	11.00 279	19.00 483	3.04 77.22	9.17 232.92	6.98 177.29	17.0 7.7	43.3 19.6
2½ 65	2.875 73.0	3.000 76.1	12.61 320.29	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	3.000 76.1	12.61 320.29	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	3.500 88.9	12.61 320.29	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	4.500 114.3	15.03 381.76	19.79 502.67	33.25 845	46.25 1175	15.25 387	15.50 394	16.00 406	5.50 140	8.75 222	10.50 267	10.75 273	21.50 546	6.24 158.50	9.63 244.60	8.47 215.13	59.0 26.7	95.0 43.0
165.1 mm	6.500 165.1	6.500 165.1	16.00 406.40	22.01 559.05	33.75 857	45.50 1156	15.75 400	16.75 425	22.00 559	6.25 159	8.75 222	11.25 286	11.25 286	20.75 527	6.20 157.48	9.63 244.60	8.85 224.79	80.0 36.2	116.0 52.6
6 150	6.625 168.3	6.625 168.3	16.00 406.40	22.01 559.05	33.75 857	45.50 1156	15.75 400	16.75 425	22.00 559	6.25 159	8.75 222	11.25 286	11.25 286	20.75 527	6.20 157.48	9.63 244.60	8.85 224.79	80.0 36.2	116.0 52.6
8 200	8.625 219.1	8.625 219.1	17.50 444.50	23.10 586.74	33.50 851	45.50 1156	17.00 432	19.75 502	26.50 673	8.75 222	9.00 229	12.75 324	13.90 353	16.50 419	6.25 158.75	9.41 239.01	10.22 259.59	122.0 55.3	158.0 71.6

- Valve pre-trimmed to speed installation
- Includes control valves, pressure switches, and drain kit
- Sizes from 1½–8”/40–200mm

* Takes optional equipment into account.

IMPORTANT NOTES:

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

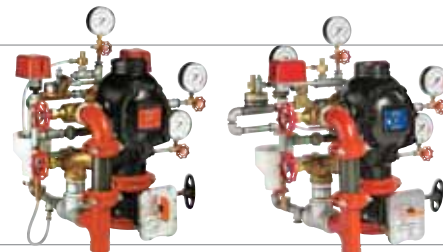
Components shown as dotted lines denote optional equipment.

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

Vic-Quick Riser

For Series 756 Dry, Series 758 Preaction and Deluge System Check Valves

For Complete Information
Request Publication 30.20

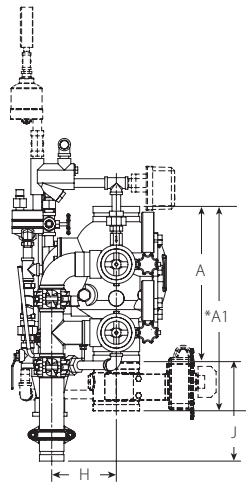


FireLock Automatic Devices and Accessories

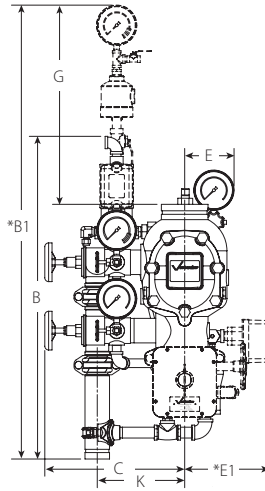
Vic-Quick Riser

For NXT Series 769 Deluge and Preaction System Check Valves

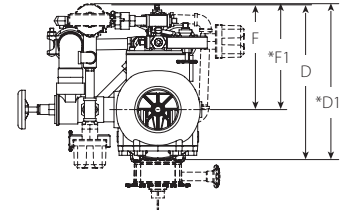
For Complete Information Request Publication 30.20



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES



TYPICAL FOR ALL SIZES

NOT CURRENTLY AVAILABLE IN ALL AREAS. CONTACT YOUR LOCAL VICTAULIC REPRESENTATIVE FOR AVAILABILITY.

Size		Dimensions																Approximate Weight Each	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A Inches mm	A1 * Inches mm	B Inches mm	B1 * Inches mm	C Inches mm	D Inches mm	D1 * Inches mm	E Inches mm	E1 * Inches mm	F Inches mm	F1 * Inches mm	G Inches mm	H Inches mm	J Inches mm	K Inches mm	Without Trim Lbs. kg	With Trim Lbs. kg	
1½ 40	1.900 48.3	9.00 228.60	16.37 415.80	28.25 718	34.50 876	10.75 273	12.50 318	16.75 425	5.25 133	8.75 222	9.25 235	11.00 279	16.25 413	3.04 77.22	9.17 232.92	6.98 177.29	16.7 7.6	43.0 19.5	
2 50	2.375 60.3	9.00 228.60	16.37 415.80	27.25 692	37.00 940	10.75 273	12.50 318	16.75 425	5.25 133	8.75 222	9.25 235	11.00 279	19.00 483	3.04 77.22	9.17 232.92	6.98 177.29	17.0 7.7	43.3 19.6	
2½ 65	2.875 73.0	12.61 320.29	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	16.51 419.35	30.50 775	40.50 1029	12.50 318	13.50 343	19.50 495	5.00 127	9.00 229	9.00 229	11.00 279	17.50 445	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	19.79 502.67	33.25 845	46.25 1175	15.25 387	15.50 394	16.00 406	5.50 140	8.75 222	10.50 267	10.75 273	21.50 546	6.24 158.50	9.63 244.60	8.47 215.13	59.0 26.7	95.0 43.0	
165.1 mm	6.500 165.1	16.00 406.40	22.01 559.05	33.75 857	45.50 1156	15.75 400	16.75 425	22.00 559	6.25 159	8.75 222	11.25 286	11.25 286	20.75 527	6.20 157.48	9.63 244.60	8.85 224.79	80.0 36.2	116.0 52.6	
6 150	6.625 168.3	16.00 406.40	22.01 559.05	33.75 857	45.50 1156	15.75 400	16.75 425	22.00 559	6.25 159	8.75 222	11.25 286	11.25 286	20.75 527	6.20 157.48	9.63 244.60	8.85 224.79	80.0 36.2	116.0 52.6	
8 200	8.625 219.1	17.50 444.50	23.10 586.74	33.50 851	45.50 1156	17.00 432	19.75 502	26.50 673	8.75 222	9.00 229	12.75 324	13.90 353	16.50 419	6.25 158.75	9.41 239.01	10.22 259.59	122.0 55.3	158.0 71.6	

- Valve pre-trimmed to speed installation
- Includes control valves, pressure switches, and drain kit
- Sizes from 1½–8"/40–200mm

* Takes optional equipment into account.

IMPORTANT NOTES:

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

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 Automatic Devices and Accessories

FireLock Fire-Pac

SERIES 745

For Complete Information
Request Publication 30.23



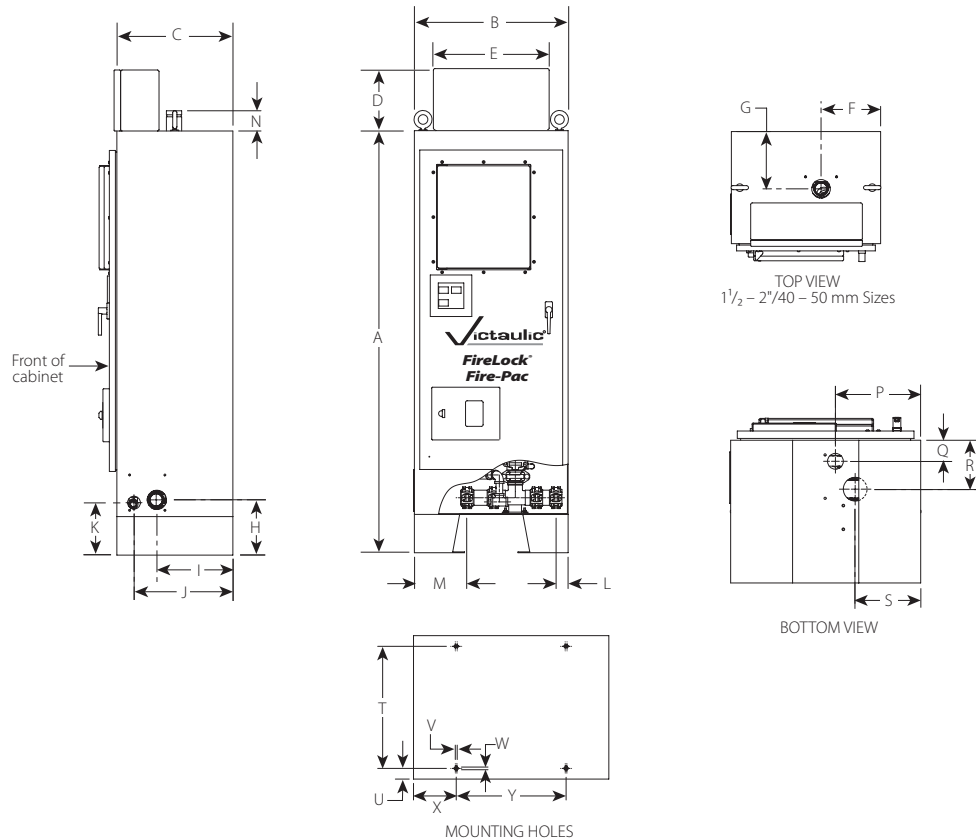
- Completely pre-assembled fire protection valve that provides maximum service in a minimal enclosed space
- All electrical enclosures and connections are UL listed, and all materials and wiring conform to NFPA requirements; CSA wiring for Canada available upon request
- Sizes from 1½–6"40–150mm for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

Size		Dimensions										
Nominal Size Inches mm	Actual Outside Diameter Inches mm	A End to End Inches mm	B Height Inches mm	C Width Inches mm	D Depth Inches mm	E Inches mm	F Inches mm	G Inches mm	H Inches mm	I Inches mm	J Inches mm	K Inches mm
1½ 40	1.900 48.3	66.06 1678	24.06 611	18.07 459	9.50 241	18.00 457	9.60 244	9.23 234	8.60 218	11.53 293	15.40 391	8.16 207
2 50	2.375 60.3	66.06 1678	24.06 611	18.07 459	9.50 241	18.00 457	9.60 244	9.23 234	8.60 218	11.95 304	15.40 391	8.16 207
2½ 65	2.875 73.0	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451
3 80	3.500 88.9	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451
4 100	4.500 114.3	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451
6 150	6.625 168.3	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451

FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES



1½–2"40–50mm SIZES



FireLock Automatic Devices and Accessories

FireLock Fire-Pac

SERIES 745

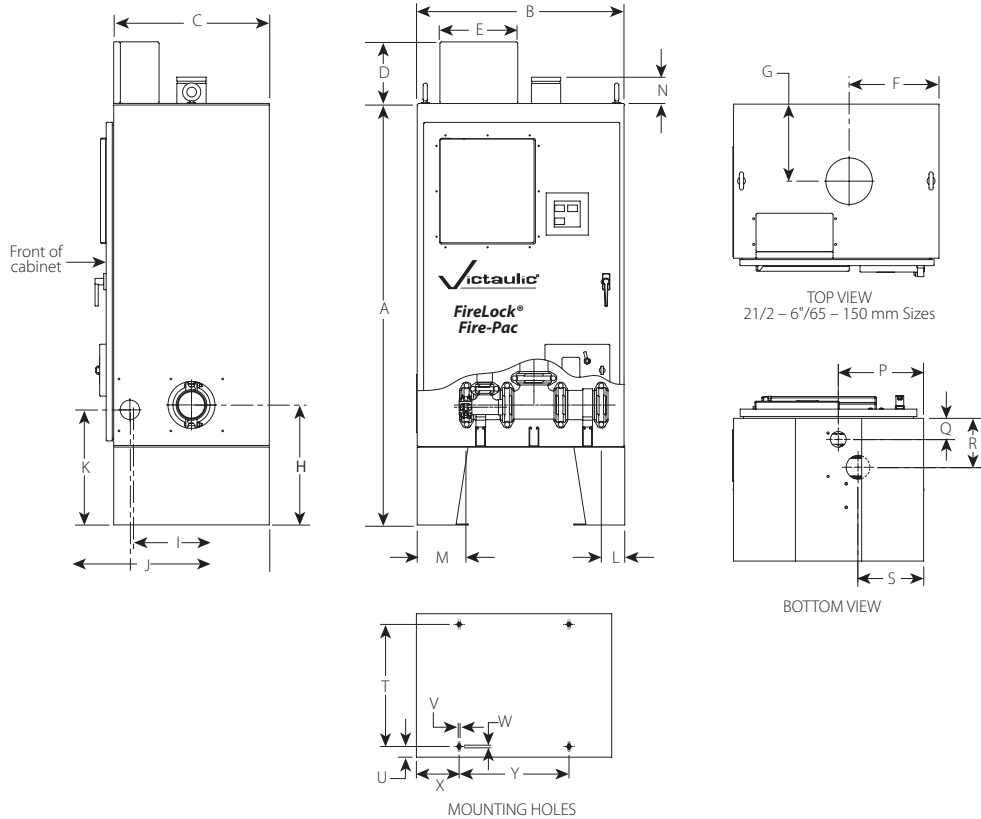
For Complete Information
Request Publication 30.23



Dimensions														Approximate Weight Each
L Inches mm	M Inches mm	N Inches mm	P Inches mm	Q Inches mm	R Inches mm	S Inches mm	T Inches mm	U Inches mm	V Inches mm	W Inches mm	X Inches mm	Y Inches mm	Lbs. kg	
2.52 64	8.66 220	1.90 48	10.79 274	2.63 67	6.19 157	8.29 211	14.00 356	2.00 51	0.312 8	0.438 11	6.81 173	10.50 267	350.0 158.8	
1.90 48	8.25 210	3.15 80	10.79 274	2.63 67	6.19 157	8.29 211	14.00 356	2.00 51	0.312 8	0.438 11	6.81 173	10.50 267	360.0 163.3	
2.62 67	6.67 169	5.27 134	—	—	—	—	20.00 508	1.75 45	0.312 8	0.438 11	7.00 178	18.00 457	516.0 234.1	
3.75 95	7.50 191	4.17 106	—	—	—	—	20.00 508	1.75 45	0.312 8	0.438 11	7.00 178	18.00 457	522.0 236.8	
3.60 91	7.60 193	4.05 103	—	—	—	—	20.00 508	1.75 45	0.312 8	0.438 11	7.00 178	18.00 457	720.0 326.6	
2.07 53	6.12 155	3.73 95	—	—	—	—	20.00 508	1.75 45	0.312 8	0.438 11	7.00 178	18.00 457	840.0 381.0	



2½ - 6" (65-150 MM) SIZES



FIRELOCK AUTOMATIC DEVICES AND ACCESSORIES

FireLock Device Accessories

Accessories

A full line of related audible and visible detectors, sensors, actuators, accelerators and other critical system components to customize any system are available.



Series 768 Dry Pg. 48	Series 769 Deluge Pg. 49	Series 769 Preaction Pg. 50	Series 751 Alarm Pg. 51	Series 759 Alarm Pg. 52	Series 756 Dry Pg. 53	Series 758 Deluge Pg. 54	Series 758 Preaction Pg. 55
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STANDARD

Series 753-A Dry Actuator/ Anti-Flood Device						●	●	●
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	●	●	●	●		●	●	●

ELECTRICAL

Alarm Pressure Switches	●	●	●	●	●	●	●	●
Supervisory Switches	●	●	●			●	●	●

† Must be used with the Series 776 low pressure actuator.

FireLock Device Accessories

Standard



Series 753-A Dry Actuator/
Anti-Flood Device
(Not available in Europe
and Middle East)

Request Publication 30.60



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

Request Publication 30.81

Optional



Series 746 FireLock
Dry Accelerator
(For use with Series 753-A
actuator only)

Request Publication 30.64



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

Request Publication 30.31



Series 755 Manual
Pull Station

Request Publication 30.41



Series 757 Air Maintenance
Trim Assembly

Request Publication 30.35



Series 757P Air Maintenance
Trim Assembly

Request Publication 30.36



Series 760 FireLock
Water Motor Alarm

Request Publication 30.32

FireLock Automatic Sprinklers

Victaulic FireLock automatic sprinklers are designed to provide protection to almost any life/safety system. Victaulic FireLock automatic sprinklers are available with a wide range of finishes and temperature ratings and meet a variety of aesthetic and performance requirements, see pg. 65 for details.

Victaulic offers a complete line of accessories to meet almost any service need. Guards, shields, escutcheons, expansion and cover plates, are all designed to provide you with a single source for your next sprinkler project.

Delivery is another hallmark of Victaulic. Orders for dry sprinklers are usually delivered within five days of the receipt of the order, a standard that is unmatched in the industry.*

Request publication **40.01** for a complete listing of sprinklers.

* Delivery times may vary.



Standard Commercial

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

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PGS. 66-67



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. 67



Storage

Victaulic offers a full range of FireLock sprinklers including intermediate level Extra Large Orifice (ELO) and Early Suppression/Fast Response (ESFR) styles for large storage areas.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 68



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. 69

FireLock Automatic Sprinklers

Improve fire protection system maintenance productivity

The Dropmaster's unique 1-horsepower vacuum pump allows you to replace, or perform maintenance on sprinkler systems while simultaneously disposing of trapped water in the system, thereby virtually eliminating the possibility of water damage to surrounding property. Labor-saving Dropmaster technology expedites your work in finished ceiling areas, reduces system downtime by up to 50% and minimizes unnecessary inconvenience to your customer's business. In recent tests, 210 sprinklers were changed out in less than 8 hours using the Dropmaster.

FOR MORE INFORMATION, SEE PG. 86



PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
- 62 **FireLock Automatic Sprinklers**
- 78 CPVC FireLock Piping
- 80 Specialty Products
- 82 Pipe Preparation Tools



Small Orifice

Victaulic model V27 small orifice sprinklers produce hemispherical spray patterns in spaces which require minimal water discharge, such as bathrooms, closets and other small areas. Standard and quick response models include upright, pendent, or recessed pendent.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 70



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, PGS. 70-72



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. 73



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. 74-75

FIRELOCK AUTOMATIC SPRINKLERS

† Teflon is a registered trademark of Dupont Corporation.

FireLock Sprinklers



Window Nozzle Sprinklers

Our V10 window nozzle sprinkler provides a water curtain against windows or other openings. The V10 features a solid brass body, and 180° flat, fan-shaped coverage.

SEE INDIVIDUAL LISTINGS FOR SPECIFIC PRODUCT APPROVALS, PG. 76



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. 76



Wrenches

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

PG. 77



Accessories

SEE OUR FULL LINE OF ACCESSORIES ON PG. 77

FireLock Automatic Sprinklers

Finishes



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.

Special Coatings



Our sprinklers can be specially-coated to ensure long life in potentially corrosive environments. We offer wax-coated, or proprietary nickel Teflon[†] coated sprinkler models. Ask your Victaulic sales representative for further details.

Available Temperature Ratings

Victaulic Part Identification	Temperature – °F/°C		Sprinkler Temperature Classification	Glass Bulb Color
	Nominal Temp. Rating	Max. Ambient Temp. Allowed		
A	135 57	100 38	Ordinary	Orange
C	155 68	100 38	Ordinary	Red
E	175 79	150 65	Intermediate	Yellow
F	200 93	150 65	Intermediate	Green
J	286 141	225 107	High	Blue
K	360 182	300 149	Extra High ‡	Purple
M	Open	—	‡	No Bulb

‡ Standard response only.

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.

† Teflon is a registered trademark of Dupont Corporation.

Sprinkler Finishes

Victaulic Part Identification	Finish
1	Plain Brass
2	Chrome
4	White Painted
5	Wax Coated
8	Nickel Teflon
B	Black
G	RAL 9001
L	RAL 9010
*	Custom Painted

* Customer must specify.




FireLock Sprinklers – Standard Commercial


Standard Commercial

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size		Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
				Imperial S.I. §	In. (NPT) mm						Literature Number


STANDARD ORIFICE – LIGHT HAZARD, ORDINARY HAZARD, STORAGE *

V27 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V2703	Upright	Standard	5.6 8.1	½ ‡ 13	½ 13	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B	UL, ULC, FM, CCC, VdS, CE, CNBOP	Yes	40.10
	V2707	Pendent	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B	UL, ULC, FM, CCC	Yes	
	V2707	Recessed Pendent	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B	UL, ULC, FM, CCC	Yes	
	V2704	Upright	Quick	5.6 8.1	½ ‡ 13	½ 13	A, C, E, F, J	1, 2, 4, 6, 8, B	UL, ULC, FM, CCC, VdS, CE, CNBOP	Yes	
	V2708	Pendent	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1, 2, 4, 6, 8, B	UL, ULC, FM, CCC	Yes	
	V2708	Recessed Pendent	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F	1, 2, 4, 6, 8, B	UL, ULC, FM, CCC	Yes	


STANDARD ORIFICE – HORIZONTAL SIDEWALL – LIGHT HAZARD, ORDINARY HAZARD *

V27 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V2709	Horizontal Sidewall	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B	UL, ULC, FM, CCC	No	40.11
	V2709	Rec. Hor. Sidewall	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F	1, 2, 4, 5, 6, 7, 8, B	UL, ULC, FM, CCC	No	
	V2710	Horizontal Sidewall	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1, 2, 4, 6, 8, B	UL, ULC, FM	No	
	V2710	Rec. Hor. Sidewall	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F	1, 2, 4, 6, 8, B	UL, ULC, FM	No	

LARGE ORIFICE – COMMERCIAL – LIGHT HAZARD, ORDINARY HAZARD, STORAGE

V34 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3401	Upright	Standard	8.0 11.5	¾ ‡ 19	⅞ ₃₂ 14	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B, L	UL, ULC, FM, VdS, CE, CNBOP	Yes	40.15
	V3405	Pendent	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J, M	1, 2, 4, 5, 6, 7, 8, B, L	UL, ULC, FM	Yes	
	V3405	Recessed Pendent	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J, M	1, 2, 4, 5, 6, 7, 8, B, L	UL, ULC, FM	Yes	
	V3402	Upright	Quick	8.0 11.5	¾ ‡ 19	⅞ ₃₂ 14	A, C, E, F, J	1, 2, 4, 6, 8, B, L	UL, ULC, FM, VdS, CE, CNBOP	Yes	
	V3406	Pendent	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1, 2, 4, 6, 8, B, L	UL, ULC, FM	Yes	
	V3406	Recessed Pendent	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F	1, 2, 4, 6, 8, B, L	UL, ULC, FM	Yes	

LARGE ORIFICE – COMMERCIAL – HORIZONTAL SIDEWALL – LIGHT HAZARD, ORDINARY HAZARD

V34 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3409	Horizontal Sidewall	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, B, L	UL, ULC	No	40.16
	V3409	Rec. Hor. Sidewall	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F	1, 2, 4, 5, 6, 7, 8, B, L	UL, ULC	No	
	V3410	Horizontal Sidewall	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1, 2, 4, 6, 8, B, L	UL, ULC	No	
	V3410	Rec. Hor. Sidewall	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F	1, 2, 4, 6, 8, B, L	UL, ULC	No	

* Sprinklers are UL Listed to 250 psi/1725 kPa and FM Approved to 175 psi/1200 kPa.

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

‡ Available in British Standard Pipe Threads. Contact Victaulic Company for details.

FireLock Sprinklers – Standard Commercial and Specific Application

Standard Commercial

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number

STANDARD ORIFICE – CONVENTIONAL

V27 FRAME



V2725	Conventional	Standard	5.6 8.1	½ ‡ 13	½ 13	A, C, E, F, J	1, 2, 5, 8, L	UL, ULC, FM, VdS, CE, CNBOP	Yes	40.17
V2726	Conventional	Quick	5.6 8.1	½ ‡ 13	½ 13	A, C, E, F, J	1, 2, 8, L	UL, ULC, FM, VdS, CE, CNBOP	Yes	

STANDARD ORIFICE – PENDENT – AVAILABLE IN EUROPE ONLY

V27 FRAME



V2727	VdS Pendent	Standard	5.6 8.1	½ NPT 15 BSP	½ 13	A, C, E, F, J, M	1, 2, 4, 8, G, L	VdS, CE, CNBOP	Yes	40.18
V2728	VdS Pendent	Quick	5.6 8.1	½ NPT 15 BSP	½ 13	A, C, E, F, J, M	1, 2, 4, 8, G, L	VdS, CE, CNBOP	Yes	

LARGE ORIFICE – PENDENT – AVAILABLE IN EUROPE ONLY

V34 FRAME



V3423	VdS Pendent	Standard	8.0 11.5	¾ NPT 20 BSP	⅞ ₃₂ 14	A, C, E, F, J, M	1, 2, 4, 8, G, L	VdS, CE, CNBOP	Yes	40.19
V3424	VdS Pendent	Quick	8.0 11.5	¾ NPT 20 BSP	⅞ ₃₂ 14	A, C, E, F, J, M	1, 2, 4, 8, G, L	VdS, CE, CNBOP	Yes	

Specific Application

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number

SPECIFIC APPLICATION – UPRIGHT

V25 FRAME



V2502	Upright	Quick	4.3 6.0	½ 13	⅞ ₁₆ 11	E	1	UL, ULC	No	40.09
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@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.


‡ Available in British Standard Pipe Threads. Contact Victaulic Company for details.

FireLock Sprinklers – Storage


Storage

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
				Imperial S.I. §	In. (NPT) mm					


(ELO) EXTRA LARGE ORIFICE – ORDINARY HAZARD, STORAGE

V34 FRAME 	V3407	Pendent	Standard	11.2 16.1	¾ 19	⅝ 16	A, C, E, F, J, M	1, 5, 6, 7, 8	UL, ULC, FM	Yes	40.20
	V3403	Upright	Standard	11.2 16.1	¾ 19	⅝ 16	A, C, E, F, J, M	1, 5, 6, 7, 8	UL, ULC, FM	Yes	
	V3408	Pendent	Quick	11.2 16.1	¾ 19	⅝ 16	A, C, E, F, J	1, 6, 8	UL, ULC, FM	Yes	
	V3404	Upright	Quick	11.2 16.1	¾ 19	⅝ 16	A, C, E, F, J	1, 6, 8	UL, ULC, FM	Yes	


INTERMEDIATE LEVEL – RACK STORAGE, ORDINARY HAZARD

V27 FRAME 	V2723	Pendent	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1	UL, ULC, FM	Yes	40.22
	V2721	Upright	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1	UL, ULC, FM	Yes *	
	V2724	Pendent	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1	UL, ULC, FM	Yes	
	V2722	Upright	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F, J	1	UL, ULC, FM	Yes *	

LARGE ORIFICE – INTERMEDIATE LEVEL – RACK STORAGE, ORDINARY HAZARD

V34 FRAME 	V3419	Pendent	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1	UL, ULC, FM	Yes	40.23
	V3417	Upright	Standard	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1	UL, ULC, FM	Yes *	
	V3420	Pendent	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1	UL, ULC, FM	Yes	
	V3418	Upright	Quick	8.0 11.5	¾ 19	⅞ ₃₂ 14	A, C, E, F, J	1	UL, ULC, FM	Yes *	

(ESFR) EARLY SUPPRESSION FAST RESPONSE

ESFR 	VK510	Pendent	Fast	25.2 36.3	1 25	1 25	D, P	1	cULus, FM, VdS	No	40.25
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* Standard upright and guard with shield must be ordered separately to achieve intermediate upright.

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

FireLock Sprinklers – Extended Coverage

Extended Coverage

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number

(ECLH) EXTENDED COVERAGE EXTRA LARGE ORIFICE – LIGHT HAZARD

V34 FRAME



V3411	Pendent	Standard	11.2 16.2	3/4 19	5/8 16	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	Yes	40.30
V3411	Recessed Pendent	Standard	11.2 16.2	3/4 19	5/8 16	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	Yes	
V3412	Pendent	Quick	11.2 16.2	3/4 19	5/8 16	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	Yes	
V3412	Recessed Pendent	Quick	11.2 16.2	3/4 19	5/8 16	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	Yes	

(ECLH) EXTENDED COVERAGE EXTRA LARGE ORIFICE – LIGHT HAZARD

V34 FRAME



V3413	Pendent	Standard	14.0 20.2	3/4 19	3/4 19	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	40.31
V3413	Recessed Pendent	Standard	14.0 20.2	3/4 19	3/4 19	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	
V3414	Pendent	Quick	14.0 20.2	3/4 19	3/4 19	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	
V3414	Recessed Pendent	Quick	14.0 20.2	3/4 19	3/4 19	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	

(ECLH) EXTENDED COVERAGE EXTRA LARGE ORIFICE – HORIZONTAL SIDEWALL – LIGHT HAZARD

V34 FRAME



V3415	Horizontal Sidewall	Standard	8.0 11.5	3/4 19	17/32 14	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	40.33
V3415	Rec. Hor. Sidewall	Standard	8.0 11.5	3/4 19	17/32 14	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	
V3416	Horizontal Sidewall	Quick	8.0 11.5	3/4 19	17/32 14	A, C, E, F	1, 2, 4, 8, B, L	UL, ULC, FM	No	
V3416	Rec. Hor. Sidewall	Quick	8.0 11.5	3/4 19	17/32 14	A, C, E, F	1, 2, 4, 8, B	UL, ULC, FM	No	

(ECHO) EXTENDED COVERAGE – ORDINARY HAZARD

V34 FRAME



V3421	Pendent	Standard	14.0 20.2	3/4 19	3/4 19	C, E, F, J	1, 2, 4, 8, B, L	UL, ULC	No	40.34
V3421	Recessed Pendent	Standard	14.0 20.2	3/4 19	3/4 19	C, E, F, J	1, 2, 4, 8, B, L	UL, ULC	No	


@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

FireLock Sprinklers – Small Orifice

Small Orifice

	Model No.	Deflector Type	Response Category	K-Factor		Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
				Imperial S.I. §	In. (NPT)	Inches	mm					
SMALL ORIFICE – LIGHT HAZARD												
V27 FRAME 	V2705	Pendent	Standard	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, L	UL, ULC	No	40.40	
	V2701	Upright	Standard	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, L	UL, ULC, FM	No		
	V2705	Recessed Pendent	Standard	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J, K, M	1, 2, 4, 5, 6, 7, 8, L	UL, ULC	No		
	V2706	Pendent	Quick	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J	1, 2, 4, 6, 8, L	UL, ULC	No		
	V2702	Upright	Quick	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J	1, 2, 4, 6, 8, L	UL, ULC, FM	No		
	V2706	Recessed Pendent	Quick	2.8 4.0	½ 13	⅜ 10	A, C, E, F, J	1, 2, 4, 6, 8, L	UL, ULC	No		


@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

FireLock Sprinklers – Residential

Residential

	Model No.	Deflector Type	Response Category	K-Factor		Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
				Imperial S.I. §	In. (NPT)	Inches	mm					
STANDARD ORIFICE – RESIDENTIAL – HORIZONTAL SIDEWALL												
V27 FRAME 	V2738 #	Horizontal Sidewall	Quick	4.2 6.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No	40.54	
	V2738 #	Rec. Hor. Sidewall	Quick	4.2 6.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No		

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

Approved for use on sloped ceilings.

FireLock Sprinklers – Residential

Residential

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number

STANDARD ORIFICE – RESIDENTIAL – PENDENT

V27 FRAME



V2730 #	Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No	40.41
V2730 #	Recessed Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No	
V2732 #	Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No	
V2732 #	Recessed Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C, E	1, 2, 4, 8, L	UL, ULC	No	

STANDARD ORIFICE – RESIDENTIAL – CONCEALED PENDENT

V27 FRAME



V2734 #	Concealed Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C	2, 4, 8, B	UL, ULC	No	40.42
V2736	Concealed Pendent	Quick	4.9 7.1	½ 13	⅞ 11	C	2, 4, 8, B	UL, ULC	No	

RESIDENTIAL – LOW FLOW ADJUSTABLE CONCEALED PENDENT

V38 FRAME



V3806	Concealed Pendent	Quick	5.6 8.1	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	40.43
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RESIDENTIAL – ADJUSTABLE FLUSH PENDENT

V29 FRAME



V2902 #	Pendent	Quick	4.1 6.1	½ 13	⅞ 11	C	2, 4, 8	UL, C-UL	No	40.44
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@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

Approved for use on sloped ceilings.

IMPORTANT NOTES:

Use V2734 for room sized up to 16ft./4.9m and use V2736 for room sizes 18–20ft./5.5–6.1 m.


V3806 is approved for room sizes up to 20ft./6.1 m.

FireLock Sprinklers – Residential


Residential

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number


STANDARD ORIFICE – RESIDENTIAL (RETROFIT/REPLACEMENT ONLY)

V27 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V2714	Pendent	Quick	3.0 4.3	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	40.45
	V2714	Recessed Pendent	Quick	3.0 4.3	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	
	V2716	Pendent	Quick	3.5 5.1	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	
	V2716	Recessed Pendent	Quick	3.5 5.1	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	

STANDARD ORIFICE – RESIDENTIAL – HORIZONTAL SIDEWALL (RETROFIT/REPLACEMENT ONLY)

V27 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V2718	Horizontal Sidewall	Quick	3.5 5.1	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	40.46
	V2718	Rec. Hor. Sidewall	Quick	3.5 5.1	½ 13	⅞ 11	C	1, 2, 4, 8	UL, ULC	No	

K 6.9 – RESIDENTIAL

V34 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3426	Pendent	Quick	6.9 9.9	¾ NPT 20 BSP	1½ 12	C, E	1, 2, 4	cULus	No	40.48
	V3426	Recessed Pendent	Quick	6.9 9.9	¾ NPT 20 BSP	1½ 12	C, E	1, 2, 4	cULus	No	

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

IMPORTANT NOTES:

Pendent - K3.0 for room sizes up to 16 ft. × 16 ft./4.9 × 4.9 m; K3.5 for room sizes up to 18 ft. × 18 ft./5.5 × 5.5 m and 20 ft. × 20 ft./6.1 × 6.1 m.
Horizontal Sidewall - K3.5 for room sizes up to 16 ft. × 16 ft./4.9 × 4.9 m.

FireLock Sprinklers – Decorative

Decorative

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number

DECORATIVE – ADJUSTABLE CONCEALED PENDENT – LIGHT HAZARD, ORDINARY HAZARD

V38 FRAME



V3801	Con. Pen. & Cover Plate	Standard	5.6 8.1	½ 13	½ 13	A, C, E, F	2, 4, 8	UL, ULC, CCC	No	40.50
V3802	Con. Pen. & Cover Plate	Quick	5.6 8.1	½ 13	½ 13	A, C, E, F	2, 4, 8	UL, ULC, FM	No	

DECORATIVE – ADJUSTABLE CONCEALED PENDENT – EXTENDED COVERAGE – LIGHT HAZARD

V39 FRAME



V3904	Adj. Conc. Pendent	Quick	8.0 11.5	¾ 19	1½ 14	A, C, F	2, 4, 8	UL, C-UL	No	40.71
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@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

IMPORTANT NOTES:


Cover plate available with ceiling gasket, request publication 40.53 or contact Victaulic for details.

FireLock Sprinklers – Dry


Dry

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
				Imperial S.I. §	In. (NPT) mm					Inches mm


DRY – STANDARD SPRAY – LIGHT HAZARD, ORDINARY HAZARD, STORAGE

V36 FRAME 	V3605	Pendent	Standard	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.60
	V3605	Recessed Pendent	Standard	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	
	V3605	Intermediate Pendent	Standard	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	
	V3606	Pendent	Quick	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3606	Recessed Pendent	Quick	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	
	V3606	Intermediate Pendent	Quick	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	


DRY – STANDARD SPRAY – LIGHT HAZARD, ORDINARY HAZARD, STORAGE

V36 FRAME 	V3607	Pendent	Standard	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.61
	V3607	Recessed Pendent	Standard	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3607	Intermediate Pendent	Standard	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3608	Pendent	Quick	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3608	Recessed Pendent	Quick	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3608	Intermediate Pendent	Quick	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	

DRY – STANDARD SPRAY – LIGHT HAZARD, ORDINARY HAZARD, STORAGE

V36 FRAME 	V3601	Upright	Standard	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.62
	V3602	Upright	Quick	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	

DRY – STANDARD SPRAY – LIGHT HAZARD, ORDINARY HAZARD, STORAGE

V36 FRAME 	V3603	Upright	Standard	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.63
	V3604	Upright	Quick	8.0 11.5	1 25	¾ 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

FireLock Sprinklers – Dry


Dry

Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §	In. (NPT) mm	Inches mm	°F °C				Literature Number


DRY – STANDARD SPRAY – HORIZONTAL SIDEWALL AND RECESSED HORIZONTAL SIDEWALL – LIGHT HAZARD

V36 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3609	Horizontal Sidewall	Standard	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.64
	V3609	Rec. Hor. Sidewall	Standard	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	
	V3610	Horizontal Sidewall	Quick	5.6 8.1	1 25	½ 13	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3610	Rec. Hor. Sidewall	Quick	5.6 8.1	1 25	½ 13	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	


DRY – STANDARD SPRAY – HORIZONTAL SIDEWALL AND RECESSED HORIZONTAL SIDEWALL – LIGHT HAZARD

V36 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3611	Horizontal Sidewall	Standard	8.0 11.5	1 25	17/32 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	40.65
	V3611	Rec. Hor. Sidewall	Standard	8.0 11.5	1 25	17/32 14	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	
	V3612	Horizontal Sidewall	Quick	8.0 11.5	1 25	17/32 14	A, C, F, J	1, 2, 4, 8, B	UL, C-UL	No	
	V3612	Rec. Hor. Sidewall	Quick	8.0 11.5	1 25	17/32 14	A, C, F	1, 2, 4, 8, B	UL, C-UL	No	

DRY – STANDARD SPRAY – CONCEALED PENDENT – LIGHT HAZARD, ORDINARY HAZARD

V36 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3617	Concealed Pendent	Standard	5.6 8.1	1 25	½ 13	A, C, F	2, 4, 8, B	UL, C-UL	No	40.66
	V3618	Concealed Pendent	Quick	5.6 8.1	1 25	½ 13	A, C, F	2, 4, 8, B	UL, C-UL	No	

DRY – STANDARD SPRAY – CONCEALED PENDENT – LIGHT HAZARD, ORDINARY HAZARD

V36 FRAME	Model No.	Deflector Type	Response Category	K-Factor	Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V3619	Concealed Pendent	Standard	8.0 11.5	1 25	½ 13	A, C, F, J	2, 4, 8, B	UL, C-UL	No	40.67
	V3620	Concealed Pendent	Quick	8.0 11.5	1 25	½ 13	A, C, F	2, 4, 8, B	UL, C-UL	No	

@ See table on pg. 65 for temperature ratings and available finishes.

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


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FireLock Sprinklers – Nozzles


Nozzles

Model No.	Deflector Type	Response Category	K-Factor		Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
			Imperial S.I. §		In. (NPT) mm	Inches mm					°F °C

WINDOW SPRINKLERS

V10 FRAME		Model No.	Deflector Type	Response Category	K-Factor		Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V1001	Window Sprinkler	Open	1.4 2.0	1/2 13	1/4 7	—	1.2	UL, C-UL	No	40.72		
	V1003	Window Sprinkler	Open	2.0 2.9	1/2 13	15/16 8	—	1.2	UL, C-UL	No			
	V1005	Window Sprinkler	Open	2.8 4.0	1/2 13	3/8 10	—	1.2	UL, C-UL	No			
	V1007	Window Sprinkler	Open	4.2 5.9	1/2 13	7/16 11	—	1.2	UL, C-UL	No			
	V1009	Window Sprinkler	Open	5.6 8.1	1/2 13	1/2 13	—	1.2	UL, C-UL	No			
	V1011	Window Sprinkler	Open	8.0 11.3	3/4 19	17/32 14	—	1.2	UL, C-UL	No			
	V1013	Window Sprinkler	Open	11.4 16.3	3/4 19	3/8 16	—	1.2	UL, C-UL	No			

OPEN FOAM NOZZLES

V26 FRAME		Model No.	Deflector Type	Response Category	K-Factor		Nominal Thread Size	Nominal Orifice Size	Temp. Ratings @	Available Sprinkler Finishes @	Approvals Listing †	Sprinkler Guard Available	Request Publication
	V2601	Foam Nozzles	Open	2.8 4.0	1/2 13	3/8 10	—	1	UL	No	40.73		
	V2603	Foam Nozzles	Open	5.6 8.1	1/2 13	1/2 13	—	1	UL	No			

@ See table on pg. 65 for temperature ratings and available finishes.

§ 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 units are MEA (#62-99-E) and CSFM (#7690-0531:112) Approved. Recognized by FM as standard response only.

FireLock Automatic Sprinklers

Wrenches



Wrenches	Model V25	Model V26 Foam Nozzle	Model V27	Model V27-1	Model V29 Flush	Model V29-1 Cabinet Socket	Model V34	Model V36	Model V38	Model V38-4	Model V38-5 Cabinet Socket	Model V39
OPEN END	●	●	●				●	●				
RECESSED							●	●	●	●		●
SOCKET			●	●	●	●			●	●	●	

Accessories



SPRINKLER GUARDS

For Complete Information
Request Publication **40.83**



SPRINKLER STORAGE CABINET

For Complete Information
Request Publication **40.81**



EXTENDED PLATE

For Complete Information
Request Publication **40.84**

FIRELOCK AUTOMATIC SPRINKLERS

CPVC FireLock Piping – Available in the US and Mexico only

The Victaulic CPVC FireLock plain end system consists of small diameter, impact-resistant pipe, straight and reducing fittings, tees, elbows, crosses and sleeves designed specifically for residential and specialty piping applications.

UL Listed and FM Approved, Victaulic CPVC piping is rated for service up to 175 psi/1200 kPa at 150°F/66°C, and is available in ¾–2"/20–50mm size range.

FireLock CPVC products meets NFPA 13, 13R, and 13D standards for residential and light hazard occupancies.

FireLock CPVC products are also approved for potable water services and comply with ANSI/NSF DW Standard for health effects.

The system is joined together with a one-step solvent cement for fast, labor saving installations.

Victaulic CPVC FireLock One-Step Solvent Cement (Style 889)

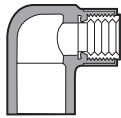
Though many solvent brands are approved for the Victaulic CPVC FireLock system, our one-step joining technology eliminates the need for primers – reducing curing time and further simplifying connections.

Request Publication **80.01** for a complete description of CPVC FireLock piping products.

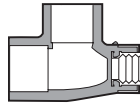
Pipe, Couplings, Elbows and Tees



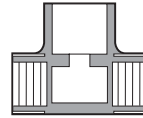
CPVC Pipe
NO. 805



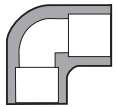
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Soc x Fipt Insert
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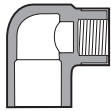
Sprinkler Tee
Soc x Fipt Insert x Soc
NO. 822



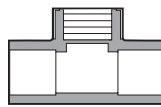
Bullhead Tee
SR Fipt x SR Fipt x Soc
NO. 826



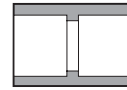
90° Elbow
Soc x Soc
NO. 810



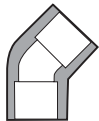
90° Sprinkler Elbow
Soc x SR Fipt
NO. 814



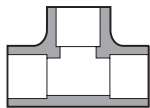
Sprinkler Tee
Soc x Soc x SR Fipt
NO. 823



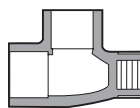
Coupling
Soc x Soc
NO. 830



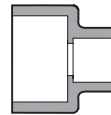
45° Elbow
Soc x Soc
NO. 811



Tee
Soc x Soc x Soc
NO. 820



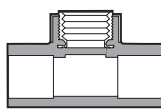
Sprinkler Tee
Soc x SR Fipt x Soc
NO. 824



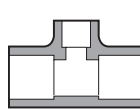
Reducer Coupling
Soc x Soc
NO. 831



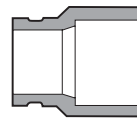
90° Reducing Elbow
Soc x Soc
NO. 812



Sprinkler Tee
Soc x Soc x Fipt Insert
NO. 821



Reducing Tee
Soc x Soc x Soc
NO. 825



Grooved Coupling Adapter
Grv. x Soc
NO. 832

CPVC FireLock Piping – Available in the US and Mexico only

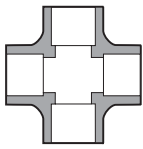


PRODUCTS

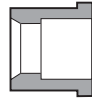
- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
- 62 FireLock Automatic Sprinklers
- 78 **CPVC FireLock Piping**
- 80 Specialty Products
- 82 Pipe Preparation Tools

CPVC FIRELOCK PIPING

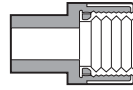
Crosses, Unions, Adapters, Reducer and Cap



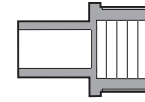
Cross
Soc x Soc x Soc x Soc
NO. 835



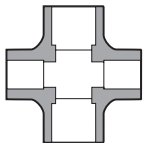
Reducing Bushing Flush Style
Spig x Soc
NO. 852



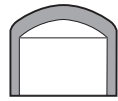
Spigot Female Adapter
Spig x Fipt Insert
NO. 867



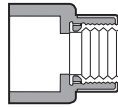
Spigot Sprinkler Adapter
Spig x SR Fipt
NO. 883



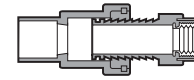
Cross with Reducing Ends
Soc x Soc x Soc x Soc
NO. 836



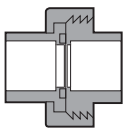
Cap
NO. 860



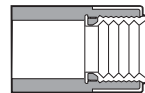
Female Sprinkler Adapter
Soc x Fipt Insert
NO. 880



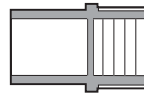
Adjustable Sprinkler Adapter
Soc x Fipt Insert, **NO. 884**
Spig x Fipt Insert, **NO. 885**



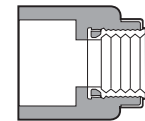
Union
Soc x Soc
NO. 850



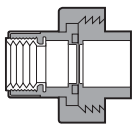
Female Adapter
Metallic Thread
Soc x Fipt Insert
NO. 865



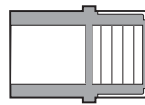
Female Sprinkler Adapter
Soc x SR Fipt
NO. 881



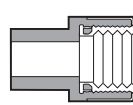
Female Sprinkler Adapter
Long Body
Soc x Fipt Insert
NO. 888



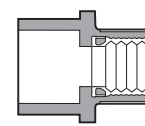
Transition Union
Soc x Fipt Insert
NO. 851



Female Adapter
Soc x SR Fipt
NO. 866



Spigot Sprinkler Adapter
Spig x Fipt Insert
NO. 882



Female Sprinkler Adapter
with Positioning Ring
Soc x SR Fipt
NO. 889

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.

SPECIALTY PRODUCTS



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 **19.01** – **19.04**

Specialty Products

Victaulic provides a variety of joining systems and materials for almost any fire protection application. From AWWA-size products for underground services to plain end couplings and fittings 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

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
- 62 FireLock Automatic Sprinklers
- 78 CPVC FireLock Piping
- 80 **Specialty Products**
- 82 Pipe Preparation Tools



AWWA Piping Systems

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 – 23.10**



Copper Piping Systems

Designed for large diameter copper tubing, 2–8"/ 50–200mm, our grooved copper couplings, fittings and flange adapters are designed for K, L, M, DWV, Table X and Table Y type copper systems.

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

For Complete Information Request Publications **22.01 – 22.07**



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 Company.

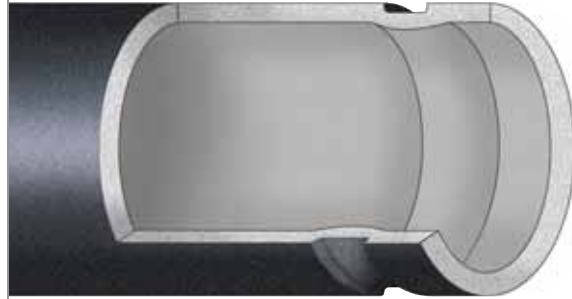
For Complete Information Request Publications **17.01 – 19.04**

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

3/4 – 2"
20 – 50 mm

VE12, PG. 84



2 – 6"
50 – 150 mm

VE26, PG. 84
POWER DRIVE KIT, PG. 84



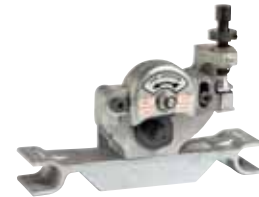
3 1/2 – 6"
90 – 150 mm

VE46, PG. 84
POWER DRIVE KIT, PG. 84



3/4 – 6"
20 – 150 mm

VE226, PG. 84



Field Fabrication Roll Groovers

1 1/4 – 6"
32 – 150 mm

VE106, PG. 85
VE107, PG. 85



3/4 – 12"
20 – 300 mm

VE270FSD, PG. 85
VE271FSD, PG. 85



3/4 – 12"
20 – 300 mm

VE272SFS, PG. 85

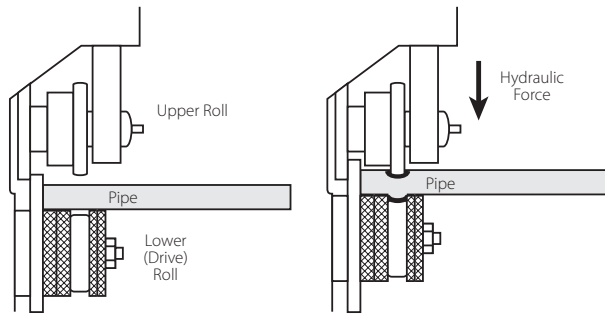


2 – 16"
50 – 400 mm

VE416SFD, PG. 85



Pipe Preparation



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

Roll grooving removes no metal from pipe

PRODUCTS

- 12 Couplings
- 24 Fittings
- 28 Hole Cut Piping System
- 34 Valves and Accessories
- 46 FireLock Automatic Devices and Accessories
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- 82 **Pipe Preparation Tools**

Plant/Shop Fabrication Roll Groovers

3/4 – 12"
20 – 300 mm

VE268, PG. 86



DropMaster™

DP512-0, PG. 86



Pressfit Tools

PFT505, PG. 86

Available in North America only.



Hole Cutting Tools Accessories

HCT908, PG. 87
VHCT900, PG. 87
VHCT901, PG. 87



Power Drive

VPD752, PG. 88
VPD753, PG. 88



Adjustable Pipe Stands

VAPS112, PG. 88
VAPS224, PG. 88



Pipe Diameter Tape

PG. 88



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 $\frac{1}{2}$ "/20 – 50mm pipe[†]

Power Requirements: None

Weight: 17 lbs./8kg



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 $\frac{1}{2}$ "/50 – 150mm pipe[†]

Power Requirements: None

Weight: 22 lbs./10 kg



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 $\frac{1}{2}$ "/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 $\frac{3}{8}$ "/9.5mm 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 $\frac{1}{2}$ "/20 – 150mm 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

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.

[†] Refer to Roll Grooving Tool Ratings chart on pg. 89.

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

Pipe Preparation

Field Fabrication

For Complete Information
Request Publication 24.01



VE106/VE107

VE106/VE107 GROOVE-N-GO

- Mobile light-duty roll grooving tool with an integral motor/drive unit mounted to portable hand truck
- $\frac{3}{8}$ "/9.5 mm 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"/32 – 150 mm pipe†

Power Requirements: VE106 is provided with 110 volt, 15 amp power. VE107 is provided with 220 volt, 6 amp power.

Weight: 140 lbs./64 kg

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



VE270FSD/VE271FSD

VE270FSD/VE271FSD

- 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"/20 – 300 mm pipe†

Drive Requirements: Self-contained

Power Requirements: VE270FSD is provided with 110 volt, 15 amp power. VE271FSD is provided with 220 volt, 6 amp power .

Weight: 340 lbs./154 kg

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"/200 – 300 mm 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"/20 – 300 mm pipe†

Power Requirements: Victaulic VPD752 or Ridgid 300 power drive

Weight: 184 lbs./84 kg

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"/50 mm – 16"/400 mm standard wall pipe, lightwall steel pipe, as well as aluminum, stainless and PVC plastic pipe
- Equipped with a pipe stabilizer for 6"/150 mm – 16"/400 mm 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"/50 – 400 mm pipe†

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

Weight: 340 lbs./154 kg

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"/350 – 400 mm std. wall carbon steel pipe for use with the AGS system.

† Refer to Roll Grooving Tool Ratings chart on pg. 89.

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: 735 lbs./333 kg

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.

DropMaster

For Complete Information
Request Publication **PB-286**



DP512-0

DP512-0

- Quickly and easily drains fire protection systems
- 120 volt electrical service required
- 1 hp 120 volt electric motor vacuum pump
- $\frac{3}{4}$ hp 115 volt electric sump/drain pump with 20’/6.1 m drain hose
- 10 gallon collection tank
- 20’/6.1 m of suction hose
- 20’/6.1 m electrical cord
- Mounted on portable hand-cart

Pressfit Tool*

For Complete Information
Request Publication **24.01**



PFT505



* Available in North America only.

PFT505

- The Pressfit System requires a Pressfit tool designed for securing Pressfit products onto pipe
- Tool packages include the actual pressing tool and any customer specified press jaws
- 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 power

Accessories: $\frac{1}{2}$ ”/15mm, $\frac{3}{4}$ ”/20mm, 1”/25mm, 1 $\frac{1}{2}$ ”/40mm and 2”/50mm jaws

† Refer to Roll Grooving Tool Ratings chart on pg. 89.

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 4½"/120mm in carbon and stainless steel pipe
- Designed for use with Mechanical-T and Vic-Let outlets

Capacity: ½ – 4"/15 – 100mm pipe, 1 – 4½"/25 – 120mm holes for Mechanical-T and Vic-Let

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

Weight: 23lbs./10kg



VHCT900/VHCT901

VHCT900/VHCT901

- Three-piece hole cutting tool designed to cut holes up to 3½"/90mm in diameter for Mechanical-T and Vic-Let 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: 1¼ – 8"/32 – 200mm pipe, 1 – 3½"/25 – 90mm holes for Mechanical-T and Vic-Let outlets

Power Requirements: VHCT900 is provided with grounded 120 volt, 1 phase, 60Hz, 10amp power. VHCT901 is provided with 220volt, 1 phase, 60Hz, 5amp power.

Weight: 36lbs./16kg

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

Pipe Preparation

Power Drive

VPD752/VPD753

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, 50/60Hz. VPD753 is provided with 220volt, 6amp power, 50/60 cycle.

Weight: 140lbs./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: ¾ – 12"/20 – 300mm IPS pipe

Load Rating: 1075lbs./490 kg

Vertical Stroke: 14½"/368mm for adjusting rod, 8½"/216mm leg adjustment, 23"/584mm

Minimum Pipe Height from Floor:

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

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

Weight: 190lbs./86 kg

Handle Effort Required to Raise 1075 lbs./490 kg Load: 50lbs./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 – 600mm IPS pipe

Load Rating: 1800lbs./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: 50lbs./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 ¾ – 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	14 350	16 400			
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				5,10											
	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/ VE107	Steel					5 – 40 Standard Rolls §															
	Stainless					40S Standard Rolls §															
	Lt. Wall SS					5S, 10S Rx Rolls #															
	Copper					K, L, M, DWV Copper Rolls ‡															
VE270FSD/ VE271FSD	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 §															
	Lt. Wall SS					5S, 10S Rx Rolls #														Std. Wall Only **	
	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 7/8" 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.

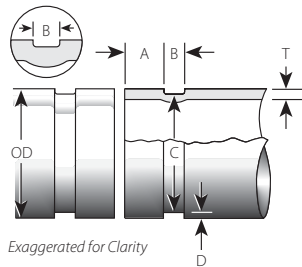
** Standard Wall (0.375"/9.5mm)

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	
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	
4 100	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	
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	
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	
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	
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	0.085 2.16	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	
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	
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	
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	
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	
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	
304.8 mm	12.000 304.8	+0.063 +1.60	-0.031 -0.79	0.750 19.05	0.469 11.91	11.781 299.24	-0.030 -0.76	0.109 2.77	0.156 3.96	12.17 309.1	
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	
14 350	14.000 355.6	+0.063 +1.60	-0.031 -0.79	0.938 23.83	0.469 11.91	13.781 350.04	-0.030 -0.76	0.109 2.77	0.156 3.96	14.16 359.7	
16 400	16.000 406.4	+0.063 +1.60	-0.031 -0.79	0.938 23.83	0.469 11.91	15.781 400.84	-0.030 -0.76	0.109 2.77	0.165 4.19	16.16 410.5	
18 450	18.000 457.2	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.469 11.91	17.781 451.64	-0.030 -0.76	0.109 2.77	0.165 4.19	18.16 461.3	
20 500	20.000 508.0	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.469 11.91	19.781 502.44	-0.030 -0.76	0.109 2.77	0.188 4.78	20.16 512.1	
22 550	22.000 559.0	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.500 12.70	21.656 550.06	-0.030 -0.76	0.172 4.37	0.188 4.78	22.20 563.9	
24 600	24.000 610.0	+0.063 +1.60	-0.031 -0.79	1.000 25.40	0.500 12.70	23.656 600.86	-0.030 -0.76	0.172 4.37	0.218 5.54	24.20 614.7	

@ 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:

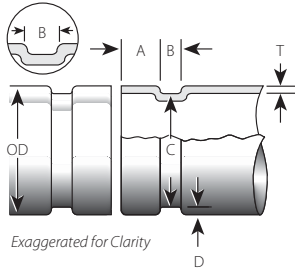
Coatings applied to the interior surfaces, including bolt pad mating surfaces, of our grooved and bolted plain end couplings should not exceed 0.010"/0.25 mm. Also, the coating thickness applied to the gasket seating surface and within the groove on the pipe exterior should not exceed 0.010"/0.25 mm.

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 Dimensions – Inches/mm			7 T Minimum Allow. Wall Thick.	8 Maximum Allow. Flare Diameter
	Basic Inches mm	Tolerance Inches mm			C Grv. Diameter +0/-0.020 +0/-0,5	D Groove Depth ref.			
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.

Column 8: Maximum Allowable End Flare Diameter

Measured at the most extreme tubing end diameter.

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V2732	Standard Orifice	Pendent/Recessed Pendent	Quick	71	40.41
V2734	Standard Orifice	Concealed Pendent	Quick	71	40.42
V2736	Standard Orifice	Concealed Pendent	Quick	71	40.42
V2738	Standard Orifice	Horizontal Sidewall/Recessed Horizontal Sidewall	Quick	70	40.54
V2902	Adjustable	Pendent	Quick	71	40.44
V3426	K 6.9	Pendent/Recessed Pendent	Quick	72	40.48
V3806	Low Flow Adjustable	Concealed Pendent	Quick	71	40.43
DECORATIVE					
V3801	Adjustable	Adjustable Concealed Pendent and Cover Plate	Standard	73	40.50
V3802	Adjustable	Adjustable Concealed Pendent and Cover Plate	Quick	73	40.50
V3904	(ECLH) Adjustable	Adjustable Concealed Pendent	Quick	73	40.71
DRY					
V3601	Standard Spray	Upright	Standard	74	40.62
V3602	Standard Spray	Upright	Quick	74	40.62
V3603	Standard Spray	Upright	Standard	74	40.63
V3604	Standard Spray	Upright	Quick	74	40.63
V3605	Standard Spray	Pendent/Recessed Pendent/Intermediate Pendent	Standard	74	40.60
V3606	Standard Spray	Pendent/Recessed Pendent/Intermediate Pendent	Quick	74	40.60
V3607	Standard Spray	Pendent/Recessed Pendent/Intermediate Pendent	Standard	74	40.61
V3608	Standard Spray	Pendent/Recessed Pendent/Intermediate Pendent	Quick	74	40.61
V3609	Standard Spray	Horizontal Sidewall/Recessed Horizontal Sidewall	Standard	75	40.64
V3610	Standard Spray	Horizontal Sidewall/Recessed Horizontal Sidewall	Quick	75	40.64
V3611	Standard Spray	Horizontal Sidewall/Recessed Horizontal Sidewall	Standard	75	40.65
V3612	Standard Spray	Horizontal Sidewall/Recessed Horizontal Sidewall	Quick	75	40.65
V3617	Standard Spray	Concealed Pendent	Standard	75	40.66
V3618	Standard Spray	Concealed Pendent	Quick	75	40.66
V3619	Standard Spray	Concealed Pendent	Standard	75	40.67
V3620	Standard Spray	Concealed Pendent	Quick	75	40.67
NOZZLES					
V1001	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1003	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1005	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1007	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1009	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1011	Window Sprinkler	Window Sprinkler	Open	76	40.72
V1013	Window Sprinkler	Window Sprinkler	Open	76	40.72
V2601	Foam Nozzle	Foam Nozzle	Open	76	40.73
V2603	Foam Nozzle	Foam Nozzle	Open	76	40.73
SPRINKLER WRENCHES AND ACCESSORIES, PG. 77					

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Warranty

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PIPE PREPARATION TOOLS, PGS. 82 – 91			
ROLL GROOVING TOOLS			
VE12	Groove In-Place – Steel	84	24.01
VE26	Groove In-Place	84	24.01
VE46	Groove In-Place	84	24.01
VE106	Groove-N-Go (110 volt, 15 amp)	85	24.01
VE107	Groove-N-Go (220 volt, 6 amp)	85	24.01
VE226	Portable Roll Groover	84	24.01
VE270FSD	Field Roll Groover (110 volt, 15 amp)	85	24.01
VE271FSD	Field Roll Groover (220 volt, 6 amp)	85	24.01
VE272SFS	Field Roll Groover	85	24.01
VE416FSD	Field Roll Groover	85	24.01
VE268	Plant/Shop Fabrication Roll Groover	86	24.01
SYSTEM MAINTENANCE TOOLS			
DP512-O	DropMaster	86	PB-286
PRESSFIT TOOLS			
PFT505	Pressfit Tool	86	24.01
PIPE CUTTING TOOLS			
HCT908	Hole Cutting Tool	87	24.01
VHCT900	Vic Hole Cutting Tool (120 volt, 10 amp)	87	24.01
VHCT901	Vic Hole Cutting Tool (220 volt, 5 amp)	87	24.01
ACCESSORIES			
VPD752	Power Drive (115 volt, 5 amp)	88	24.01
VPD753	Power Drive (220 volt, 6 amp)	88	24.01
VAPS112	Small Pipe Stand	88	24.01
VAPS224	Heavy Duty Pipe Stand	88	24.01
Pipe Tape	Diameter Tape	88	24.01

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 February 4, 2003

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.

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 new 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.

