

DEFINING INNOVATION FOR FIRE PROTECTION



COMMITTED TO CHANGING THE GAME SINCE 1919



DEFINING INNOVATION

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since 1919

Since the first patent in 1919, Victaulic has delivered innovative pipe joining solutions that help customers succeed worldwide. Look inside many of the world's most recognizable landmarks and industrial facilities, and you'll find Victaulic solutions at work making bold design innovations possible, speeding time to completion, allowing for unpredictable seismic movements and setting the stage for scalability.

As the world's leading producer of grooved mechanical pipe joining systems, Victaulic continues to deliver ground breaking solutions for the fire protection industry.

THE BIG IDEA THAT IS CHANGING 1" SMALL DIAMETER



INNOVATIVE GROOVE SYSTEM IGS™

SIMPLIFY:

- Eliminate mess – no oil, shavings, tape, or dope
- Increase tool portability
- Use one pipe schedule (Schedule 10)

SAVE:

- Effort – eliminate pipe wrenches
- Up to 55% less pipe prep
- Up to 2× faster to install

CONFIRM:

- Replace threaded connections with mechanical joints
- Bolt pad to bolt pad visual confirmation
- No tool adjustment – groove within specification every time



Threading	versus	IGS™ Solutions
✗	No Oil, Shavings, Tape and Dope	✓
✗	For use with Sch. 40 – Sch. 10 pipe	✓
✗	Impact guns and no elbow injuries	✓
✗	Increased corrosion resistance	✓
✗	Minimize the potential for leaks	✓
✗	One-touch tool actuation	✓
✗	Visual Inspection – Improved system durability	✓
✗	Installs in minutes	✓

firelockIGS.com



GROOVING INNOVATIONS

RG2100 Roll Grooving Tool



IGS[™]

- Cold forms the unique Victaulic® IGS[™] groove profile
- Hands-free process allows grooving operation to be completed in under four seconds
- Eliminates adjustment and need to measure the groove



seconds
per pipe end

IGS™ ROLL GROOVING



seconds
per pipe end

THREADING

2x faster

FIRELOCK™ INSTALLATION-READY™ COUPLINGS

Installation-Ready™ from
1 – 12" | DN25 – DN300



STYLE 009N

FireLock™ Two-Bolt
Installation-Ready™
Rigid Coupling

1¼ – 12" | DN32 – DN300



STYLE 109

FireLock™ One-Bolt
Installation-Ready™
Rigid Coupling

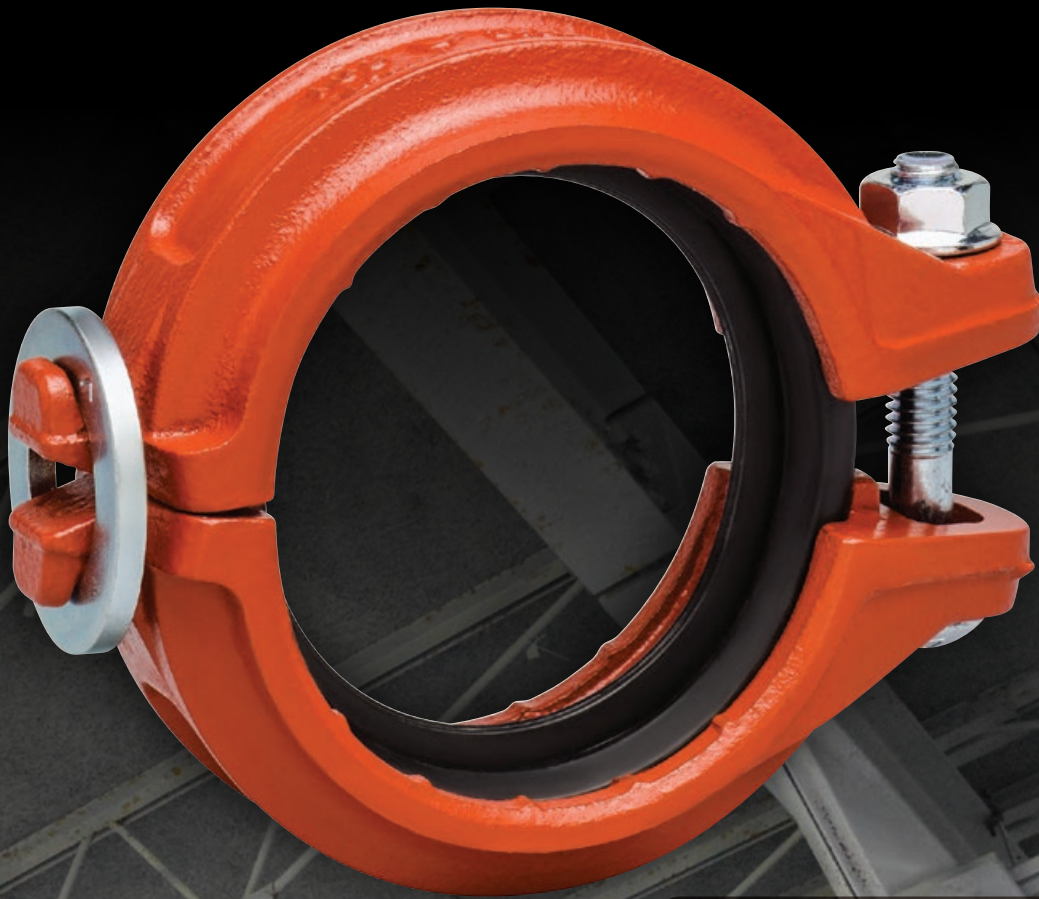
1¼ – 2½" | DN32 – 73.0 mm



STYLE 108

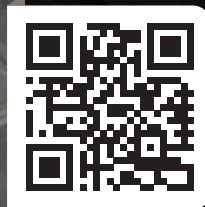
FireLock™ IGS™
Installation-Ready™
Coupling

1" | DN25



Style 109 FireLock™
ONE-BOLT
Installation-Ready™ Coupling

- Added confidence of single pad to pad visual confirmation
- Still no torque requirement
- Up to 6 times faster to install than traditional couplings
- Easy fit-up overhead with a two-piece housing
- One-bolt design eliminates alternating during tightening



victaulic.com/style109



FIRELOCK™ INSTALLATION-READY™ FITTINGS

THE MOST INNOVATIVE CHANGE TO
FIRE PROTECTION FITTINGS SINCE VICTAULIC
ORIGINATED THE GROOVED CONCEPT.

firelockfittings.com

15 →
ready-to-install
fittings



260 →
loose parts



NO LOOSE PARTS

- Eliminate the time needed to look for an extra coupling or bolt
- Reduce the number of times up and down the ladder or lift



SPRINKLER FITTING SYSTEMS

CONFIDENCE. SPEED. PERFORMANCE.



STYLE AH2-CC HOSE

- Innovative grooved branch line connection using a captured Style 108 coupling instead of a threaded union
- Bolt pad to bolt pad visual confirmation
- Same great performance as the Style AH2 hose



STYLE AH2 HOSE

- 2" bend radius — tightest in the industry
- Most allowable bends in the industry
- Up to 50% less friction loss than corrugated systems

FLEXIBLE FITTINGS

SUSPENDED CEILING

HARD-LID CEILING

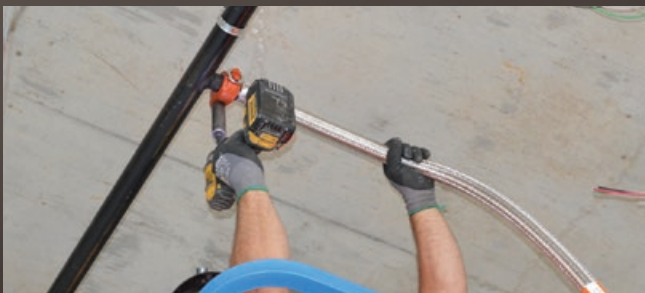
SPECIALTY APPLICATIONS

PRE-ASSEMBLED SYSTEMS



VicFlex™ is the clear choice for fast, dependable sprinkler installation.

vicflex.com





SPRINKLER FITTING SYSTEMS

A detailed 3D rendering of a low-profile sprinkler fitting system. The system consists of a metal frame made of rectangular beams. A central fitting is shown in detail, featuring a curved elbow, a threaded stem, a circular base, and a gear-like sprinkler head at the bottom. The background is a dark, textured surface.

LOW PROFILE SOLUTIONS

FLEXIBLE FITTINGS

SUSPENDED CEILINGS

HARD-LID CEILINGS

SPECIALTY APPLICATIONS

PRE-ASSEMBLED SYSTEMS

STYLE AB11 BRACKET FOR LOW PROFILE INSTALLATIONS

- Installs in spaces with clearances down to 6" | 150 mm total takeout
- FM Approved and cULus Listed
- For use with 90° low profile elbows for easy install

vicflex.com



STYLE AB12 BRACKET FOR LOW PROFILE INSTALLATIONS

- Designed to work from 36" | 914 mm down to 4" | 100 mm clearance from face of ceiling
- Standardized opening accepts 3/8" | M10 standard threaded rod



SPRINKLER FITTING SYSTEMS

VICFLEX™ STYLE VS1 DRY SPRINKLER

vicflex.com

FLEXIBLE FITTINGS

SUSPENDED CEILING

HARD-LID CEILING

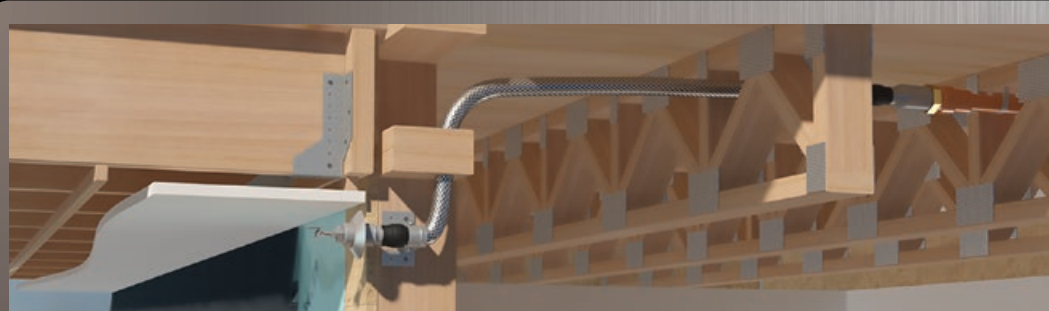
SPECIALTY APPLICATIONS

PRE-ASSEMBLED SYSTEMS

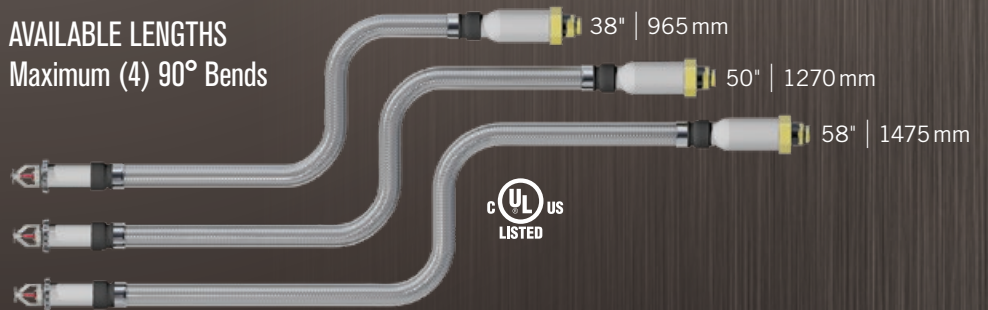


When flexible fitting technology meets dry sprinkler technology, the result is simpler, safer sprinkler systems from Victaulic.

- Applicable wherever dry sprinklers are currently installed such as — multi-family residential, balconies and breezeways, data centers, parking garages, assisted living facilities
- Meets NFPA 13 Installation Requirements for Dry Sprinklers
- 2" cULus bend radius



AVAILABLE LENGTHS
Maximum (4) 90° Bends





SPRINKLER FITTING SYSTEMS

WORK SMARTER, NOT HARDER.



Sleeve and Skirt Pendant



Recessed Pendant



Flush Pendant

SUPERIOR COLD STORAGE PROTECTION

Victaulic offers an off-the-truck solution for cold storage applications that removes the guesswork of using hard pipe while also improving seal integrity. Whether it is a new project or a retrofit, using the VicFlex™ Style AB6 Bracket makes installation a one-person job and reduces the risk of condensation impeding the system.

FLEXIBLE FITTINGS

SUSPENDED CEILINGS

HARD-LID CEILINGS

SPECIALTY APPLICATIONS

PRE-ASSEMBLED SYSTEMS

VICFLEX™ STYLE AB6 BRACKET FOR COLD STORAGE

vicflex.com

BENEFITS

- Simple, One-Person Installation. **Easy Indication of Vertical and Frame Arm Alignment from Above.**
- Eliminate Guesswork. **No Measuring or Multiple Trips to the Cooler.**
- Combats Differential Movement. **Industry Leading Seal Integrity Stays Intact, Protecting Against Condensation.**
- Flexible, Adjustable, and Adaptable. **Fits Any Ceiling or Wall Thickness While Sealing to a Variety of Surfaces.**

INSTALLATION-READY[™] SPRINKLERS

FOR STORAGE FACILITIES AND EXPOSED APPLICATIONS

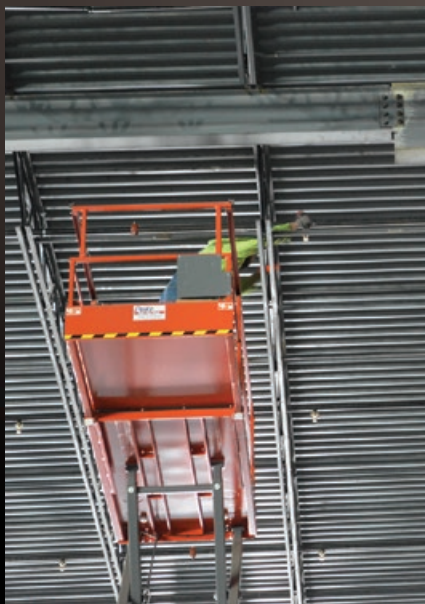
“REALISTICALLY YOU DON’T HAVE TO PREP
ANYMORE, IT COMES IN A BOX AND YOU
JUST START INSTALLING IT ON THE PIPE”

Purchasing Agent



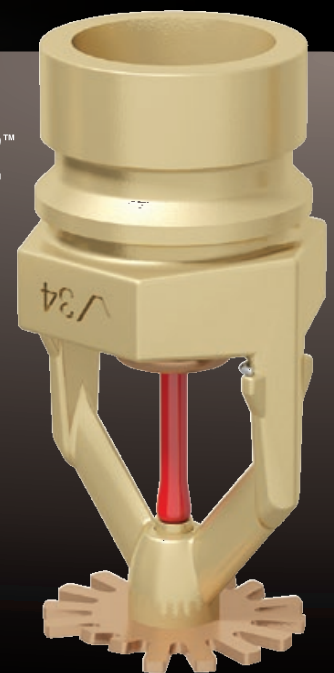
- Zero sprinkler prep
eliminate tape and dope
- Eliminate sprinkler wrenches
reducing injury from repeated
strenuous motion
- Visual inspection of proper
installation no additional
torque for frame alignment
- Standardize on 1" FireLock[™]
IGS[™] outlets coupling transitions
to 1", ¾", and ½" sprinklers

Style V9 Sprinkler Coupling



IT'S EASY – STAY IN THE AIR, STAY PRODUCTIVE.

Victaulic now offers solutions that eliminate prep work on the ground and keep installers in the air. But initial installation isn't the only thing that determines productivity, it's the rework required as well. Utilizing mechanical connections where possible instead of threaded connections ensures less downtime from leaks.



FIRELOCK NXT™ AUTOMATIC VALVE SYSTEMS



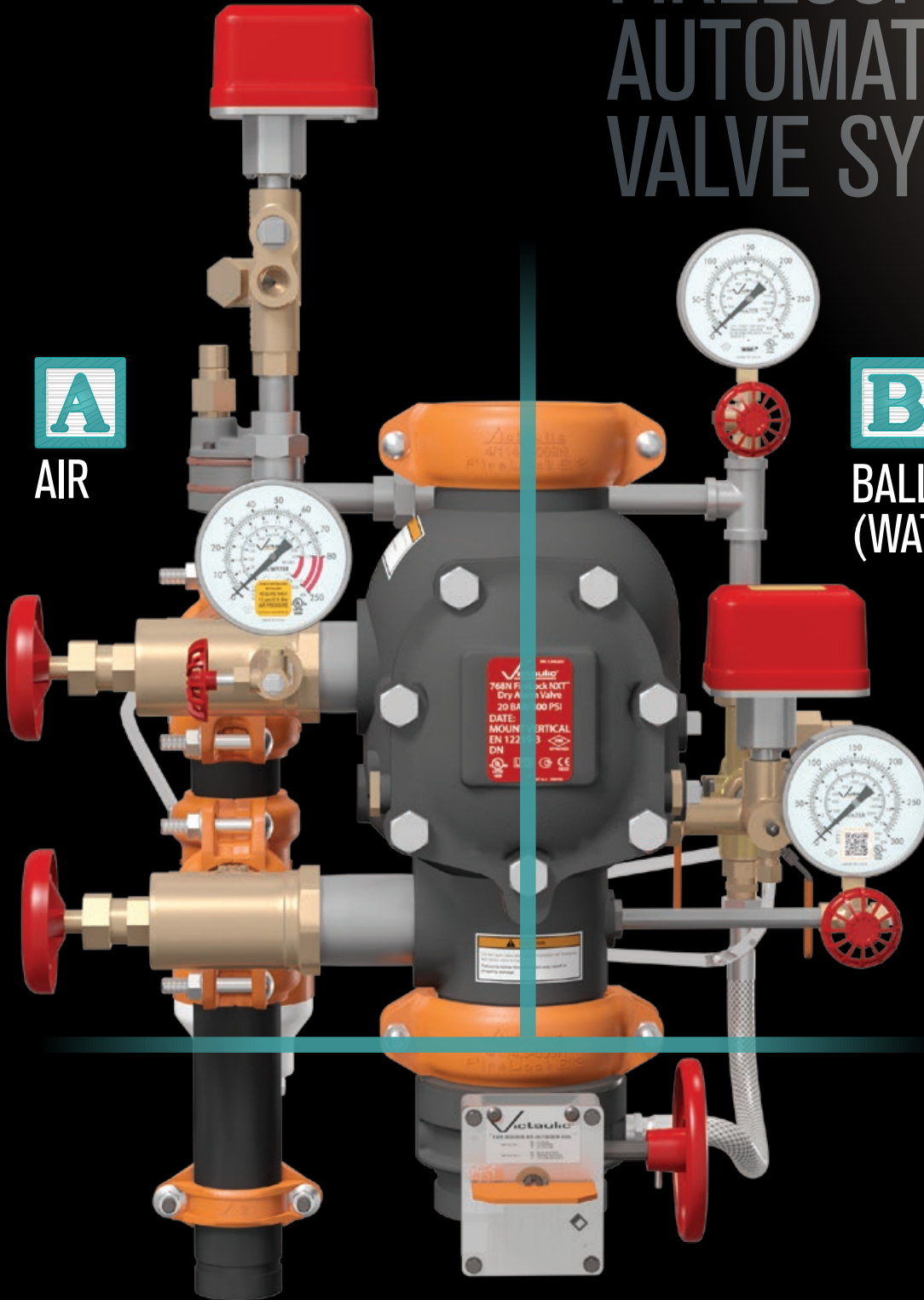
AIR



BALL VALVE
(WATER)



CONTROL VALVE



Series 768N
• Dry Valve

STREAMLINED SET-UP. AS EASY AS

LEFT EQUALS AIR.
RIGHT EQUALS WATER.
NO CONFUSION.



Simplified Maintenance

REFERENCE MATERIAL AT YOUR FINGERTIPS

First of its kind in the industry, instantaneously access up-to-date instructions directly from your mobile device. A quick scan is between you and installation, set-up and maintenance videos, or a call to Victaulic Customer Service.



EVERYTHING DESIGNED WITH YOU IN MIND

Reorganized installation instructions are clear and direct. Never mix-up a strainer again, specifically designed threads only fit in their specific manifold.

READILY ACCESSIBLE TRIM

All trim components are located on either side of the valve, and labeled clearly. No more reaching, or guesswork.



Series 769N

- Deluge Electric
- Deluge Dry Pilot
- Deluge Wet Pilot



Series 769N

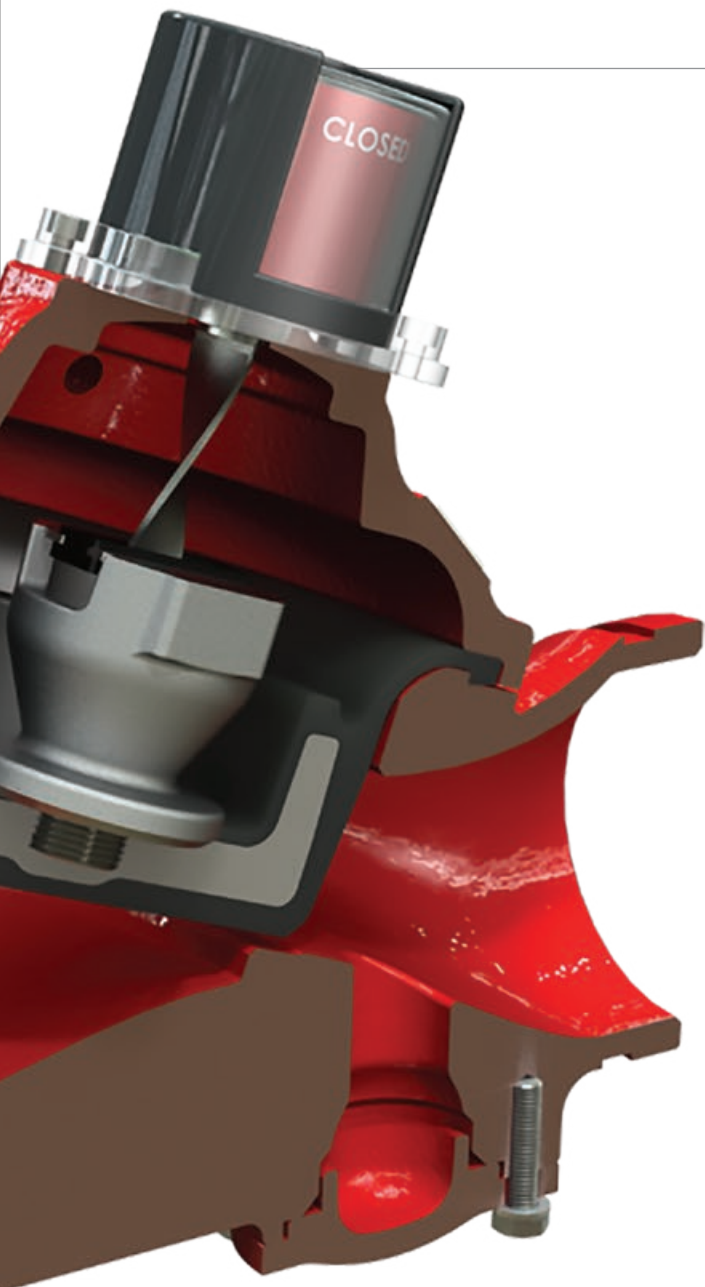
- Preaction Electric
- Preaction Single Interlock Pneumatic
- Preaction Non-Interlock Pneumatic
- Preaction Double Interlock Pneumatic/Electric
- Preaction Double Interlock Pneumatic

Through our exclusive partnership with BERMAD, Victaulic now offers innovative solutions for the control and management of fire protection systems specifically as it relates to water supply and pressure control.

Designing fire protection systems for high-rise and high-demand buildings presents a unique set of challenges, all of which can be addressed by leveraging BERMAD's product and technical expertise along with Victaulic's extensive system knowledge and support.

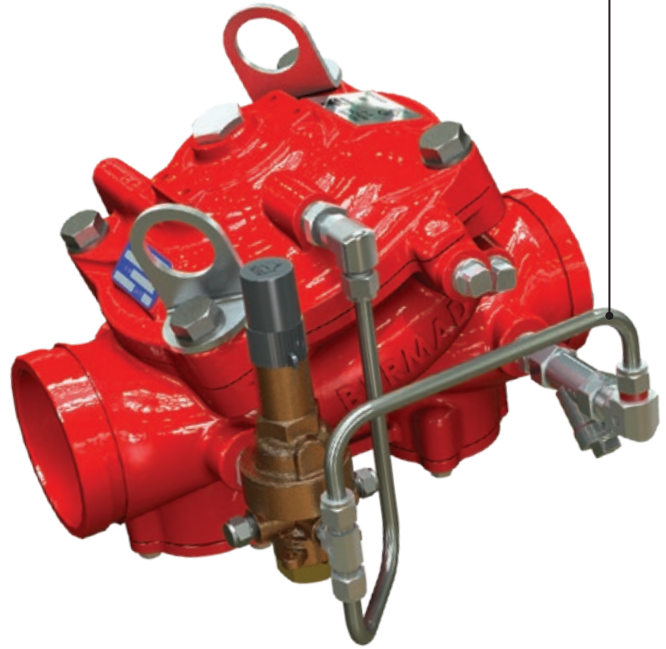


HYDRAULIC CONTROL SOLUTIONS



Adaptable Trim

Consistent valve body with multiple functions based on different trim configurations



VICTAULIC® SERIES 800Y HYDRAULIC CONTROL VALVE FAMILY

Regardless of application, dependable operation and ease of service are important to your bottom line. Hydraulic control valves with improved flow capacity, decreased water hammer and simplified maintenance can increase operating life and reduce total cost of ownership for the fire protection system. Victaulic's advanced valve design does exactly that.

- Obstruction-free design increases flow capacity by up to 40% ($C_v =$ up to 3,801)
- No water hammer at closing — smooth, cushioned operation improves operating life and eliminates noise
- Highest cULus Listed and FM Approved pressure rating for pressure reducing and pressure relief applications — 365 psi | 2517 kPa | 25 bar
- Up to eight times faster, simplified maintenance due to rolling elastomeric diaphragm design and 4-bolt cover removal
- Industry-first and industry-leading flow stability without an anti-cavitation accessory required



MAXIMIZE BILLABLE SPACE



The **Series 745 Fire-Pac** is the ideal option for installation of Victaulic® FireLock NXT™ dry, deluge or preaction systems — especially when systems are:

- Located in high traffic areas
- Installed in series and share common supply and drain lines
- Designed in zoned control areas



VICTAULIC VORTEX™

- Water droplets are approximately 10 microns in size, with a heat-absorbing surface area 90 times greater than traditional sprinklers
- 100% green and sustainable
- Applicable for Class A, B and energized electronics fires such as data centers, turbine enclosures, “precious documents”, wet benches

Victaulic **Vortex™**

Hybrid Fire Extinguishing System

SYSTEM SOLUTION FOR HDPE PIPE

THE FASTEST WAY TO JOIN HDPE PIPE –
NO IFS, ANDS, OR BUTTS. 

victaulic.com/hdpesolutions



DESIGNED TO BE BURIED



INSTALLS UP TO 10× FASTER

Join HDPE pipe in half the time it takes to fuse a joint. Forget the fusion equipment. Gone are the days of waiting for plastic to heat up just to cool down. Installing in tight or vertical spaces has never been easier; Victaulic's system solution for HDPE pipe goes where no fusion machine has gone before. That's time savings you've never seen before.



INSTALLATION IS WEATHER INDEPENDENT

Whether it's rain, shine, or just downright frigid and fierce, Victaulic® products for HDPE pipe can be installed. No need to check the weather forecast and worry about protection for fusion equipment or project delays any longer.



MEETS OR EXCEEDS PRESSURE RATINGS OF HDPE PIPE

If you thought your fused joint was tough, check out *Victaulic* HDPE product performance. Small diameter solutions call for dual rows of razor-sharp teeth that sink into the O.D. of HDPE pipe, forming a sealed hold that never lets go. Bringing out the big guns? Large diameter solutions enlist a rugged double groove to seal the deal. Push it, pull it, and drag it to the max; treat it the same way you would treat fused pipe.



INSTALLS WITH SIMPLE TOOLS

No need to set up your fancy fusion machine because all you will need with Victaulic's system solution for HDPE pipe is a simple socket wrench. If you want to get crazy, a cordless impact driver will do the job, too! Don't worry about training certificates or learning how to use fusion equipment, just stick with the basics.

INDUSTRIAL SOLUTIONS

CORROSION RESISTANT COATINGS



VC-250

Developed by Victaulic, the VC-250 is a proprietary UL/FM Approved, nickel based, multilayer corrosion resistant coating that fully encompasses each component of the sprinkler.

COATINGS

Victaulic provides a range of corrosion resistant solutions for life safety systems. Pictured here is a Style 009N coupling featuring Installation-Ready™ technology with an optional galvanized coating and stainless steel fasteners.



ENDSEAL™ COUPLING

For use on tank farms, fuel storage, and chemical facilities, the Gasket T607 used with the Victaulic *EndSeal* coupling has been tested and approved to the API607 standard.

The American Petroleum Institute Standard 607 provides test conditions used to evaluate materials exposed to the stringent conditions set forth by fire protection authorities in the protection of petroleum processing facilities.



DESIGNED FOR DURABILITY

FIRELOCK™ FIRE-PAC VALVE CABINETS

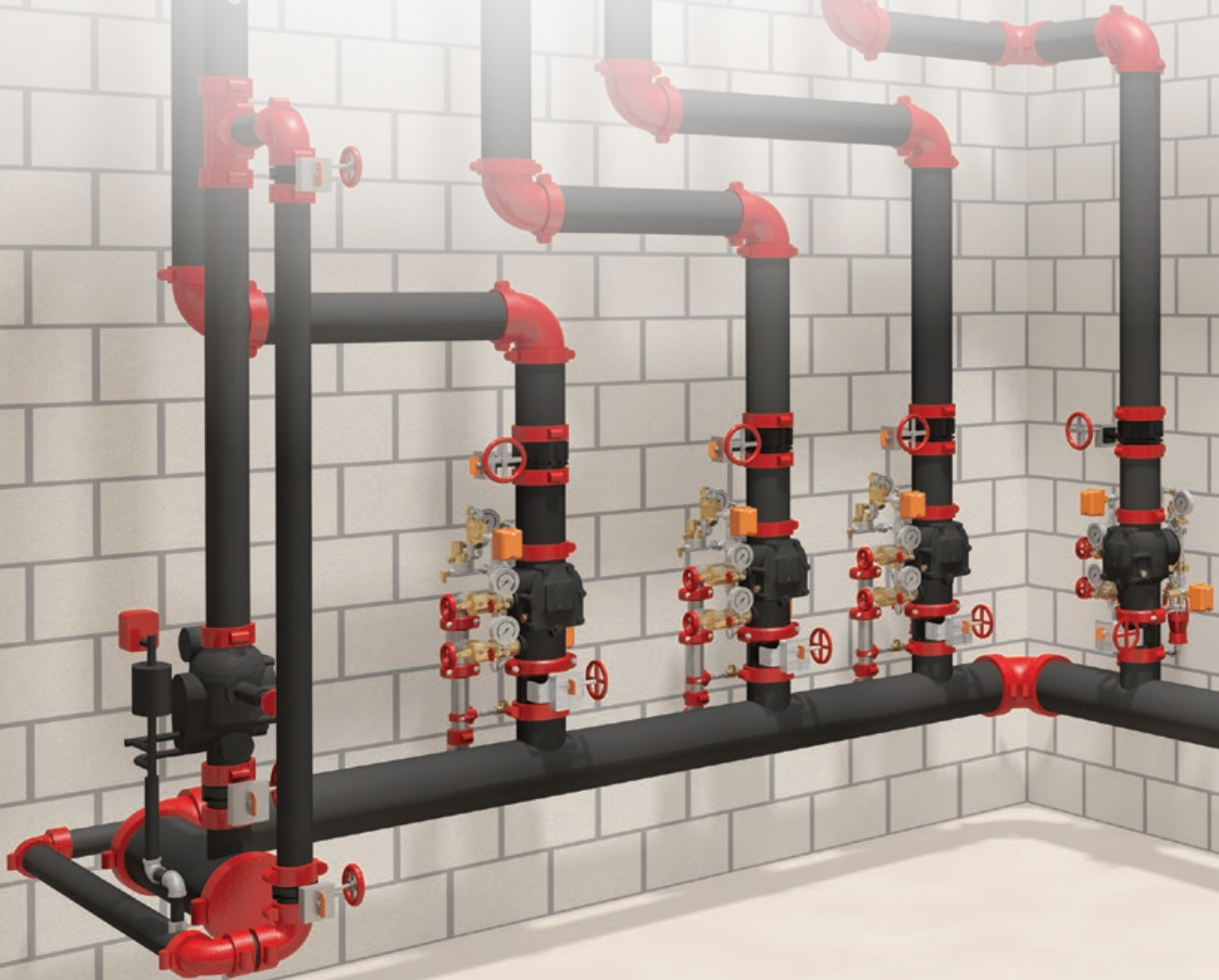
With more options available than ever before each Fire-Pac System is completely unique.

- Weatherproofing to NEMA 4 standards
- Pipe feed and drain can be located on the left, right or bottom panels
- Insulation and heating components available down to a minimum ambient temperature of 20°F | -6°C
- Compressor and nitrogen fill kit options
- Panel design options now including an addressable panel capable of networking with other intelligent devices



VDC

VIRTUAL DESIGN & CONSTRUCTION



EARLY BILLS OF MATERIAL IN REVIT® IS POSSIBLE

The procurement tool within Victaulic Tools for Revit® allows you to select an area within your model and easily create bills of material, including tags, part numbers, and finishes, eliminating the need for secondary software.

Victaulic Tools for Revit® provides an intuitive set of tools that are purposely built to improve pipe routing functionality in Autodesk Revit®. It's specifically designed to meet the needs of engineers and contractors – giving you smart tools to route piping accurately and efficiently.

victaulicsoftware.com



VICTAULIC TOOLBAR FOR REVIT®

- Make edits to piping sections with a single click
- Calculate labor times within Revit®

DEFINING INNOVATION *since* 1919

Since 1919, when Victaulic's first patent was filed, customers have always been able to stand on the company's commitment to quality and excellence. A century later, it's difficult to imagine a world without Victaulic. From the world's tallest building to its deepest mine, the company has evolved through a fierce determination to meet and surpass customer needs in the fields of building services, clean water and wastewater, fire protection, industrial construction, maritime, mining, oil, gas and chemical, and power generation.

Over the last 100 years Victaulic has solved the toughest challenges for its customers and set new standards for the industry.



A New York fireboat pumped water from the Hudson River through 1,000 ft | 305 m of 8" | DN200 lightweight pipe that rookie fire crews had assembled with Victaulic couplings. In 1952, Underwriters' Laboratories (UL) approved Victaulic's couplings and fittings for use with fire protection systems.



1919

Grooved End Pipe Joining
Invented by Victaulic



Grooved End Pipe Joining
Introduced in the U.S.

1925

1934

Victaulic® Flexible Couplings
Gain FM Approval for Use
in Earthquake Areas



First Grooved End Coupling
to Achieve UL Listing

1952

1957

Victaulic Introduces Roll Grooving
Method to the Fire Protection Industry



Introduced First Production Roll Groover

1962

1964

Flush-Seal™ Gasket Developed
for Dry Systems



First Outlet Coupling Introduced
First Direct Flange-to-Groove Adapter

1969

1972

Pioneered UL Approval for
Roll Grooving Lightwall Pipe



First Reducing On-The-Run
Coupling Style 750

1974

1975

First Mechanical Tee for Branch
Connections Style 920



Introduced *Vic-Check*
Check Valve



Introduced FIT: First
Locking Lug System
Vic-Tap: First Full Port
Hot Tapping Device
with UL Listing

1978

1986

First Rubber Coated Butterfly
Valve for Fire Protection



continued

1990

FireLock™ Fittings: First Full-flow, Short-radius Fittings Designed for the Fire Protection Industry



1999

Introduced Victaulic® FireLock™ Sprinklers and Accessories



2005

FireLock EZ™: First Rigid Coupling with Installation-Ready™ Technology

FireLock NXT™ Check Valve Systems



2011

VicFlex™ Series AH2 Braided Hose and Style AB1 Bracket



2013

FireLock™ ECLH Sprinkler Model V31

VicFlex™ Hard-lid Ceiling Bracket Style AB2



2015

FireLock NXT™ Devices Style 768N

Joint Venture with BERMAD™ Hydraulic Control Valves

EndSeal™ Couplings with API607 Approved Gasket



FireLock™ Style 005 Rigid Coupling

FireLock™ Butterfly Valve Series 707: the First Valve Pre-wired and Tested for Panel Connectivity

1988



FireLock™ Check Valve Series 717:

First Extended Body Swing/Check Design

Enhanced Tracking Roll Sets for "Hands Off" Grooving

1994



FireLock NXT™ Devices Introduced

2004



Victaulic Vortex™ Hybrid Fire Extinguishing System Gains FM Approval CL-5580 for Use in Machine Spaces

2009



FireLock EZ™ Style 009N Installation-Ready Coupling Introduced

Victaulic Vortex™ 500

2012



FireLock™ Fire-Pac Series 745

Style 009N Installation-Ready™ Coupling to 8" | 200 mm

Corrosion Resistance Coating for Sprinklers VC-250

VicFlex™ Flexible Drop Style AH1

2014

continued

2016

FireLock™ Fittings with Installation-Ready™ Technology
VicFlex™ Flexible Dry Sprinkler
FireLock NXT™ Series 769N Preaction/Deluge Check Valve



AH2-CC First Flexible Fitting Utilizing a Mechanical Connection to the Branchline
FireLock™ IGS™ (Innovative Groove System)


IGS™

2017




2018

Style 109 FireLock™ One-Bolt Installation-Ready™ Coupling
Style V9 FireLock™ Installation-Ready™ Sprinkler Coupling



Vicflex™ Style AB6 Bracket for Cold Storage

2019



Creating innovative solutions for the construction industry marks Victaulic's approach – an approach which we intend to maintain and commit to for the next 100 years. Innovation has always been Victaulic's hallmark, in turn producing elegant solutions. Victaulic's intellectual property, with more than 2,000 patents granted, is the largest in the mechanical pipe joining industry. A crucial differentiator for Victaulic, inventing and applying technologies that exceed customer and industry expectations will drive future growth. Victaulic, the world leader in grooved mechanical pipe joining systems, has shaped the course of history.



ENGINEERING CONFIDENCE INTO EVERY BUILD

FROM STREET TO SPRINKLER, THERE'S NEVER A QUESTION. VERSATILITY AND VALUE ARE DELIVERED.

Through continuous research, development and bold innovation Victaulic's pipe joining and flow control solutions have optimized construction productivity and reduced risk, ensuring projects are completed safely, on time and within budget.

Designing fire protection systems for modern applications presents a unique set of challenges, all of which can be addressed by leveraging Victaulic's "street-to-sprinkler" product solutions along with our extensive system knowledge and unmatched support.



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