GENERAL CATALOG

G-103 updated 02/2014

Victaulic®

WHERE INNOVATION AND SOLUTIONS ARE JOINED TOGETHER

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.

Today, Victaulic® supports its customers with manufacturing facilities and branches located around the globe including our world headquarters location in Easton, Pennsylvania, USA. Our international presence ensures that our worldwide customers are served with speed and efficiency.

As the world's leading producer of grooved mechanical pipe joining systems, Victaulic® has been delivering global innovative solutions across diverse business lines including building services, clean water and wastewater, fire protection, industrial construction, maritime, mining, oil, gas and chemical, power generation as well as custom castings.

From concept to commissioning, Victaulic® provides the technologies and services necessary to simplify your next project.

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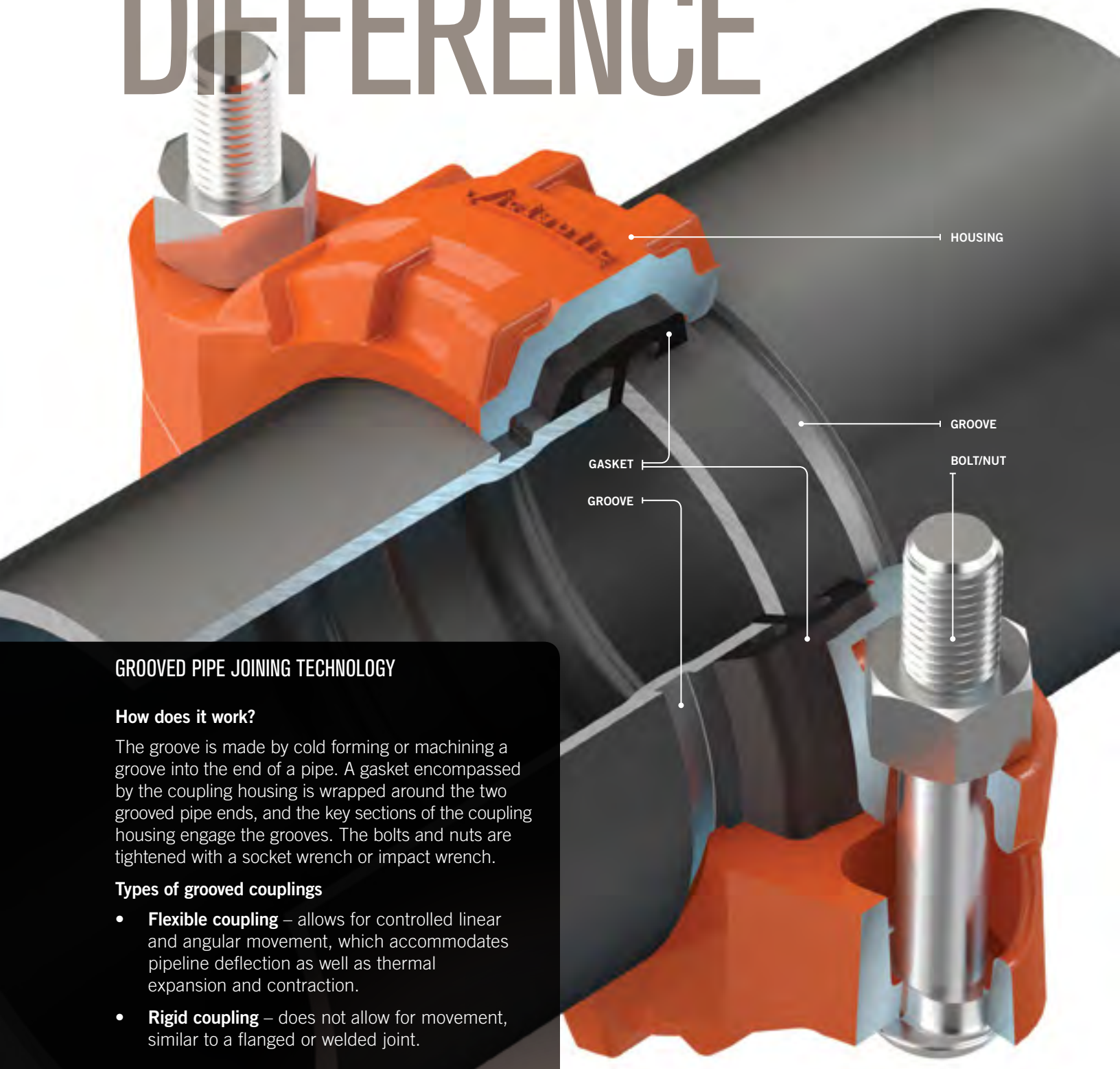
THE VICTAULIC® DIFFERENCE



GROOVED PIPE JOINING TECHNOLOGY

How does it work?

The groove is made by cold forming or machining a groove into the end of a pipe. A gasket encompassed by the coupling housing is wrapped around the two grooved pipe ends, and the key sections of the coupling housing engage the grooves. The bolts and nuts are tightened with a socket wrench or impact wrench.

Types of grooved couplings

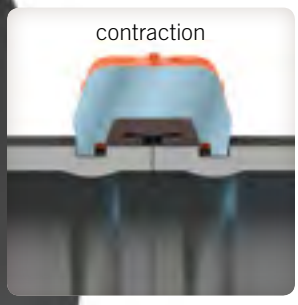
- **Flexible coupling** – allows for controlled linear and angular movement, which accommodates pipeline deflection as well as thermal expansion and contraction.
- **Rigid coupling** – does not allow for movement, similar to a flanged or welded joint.

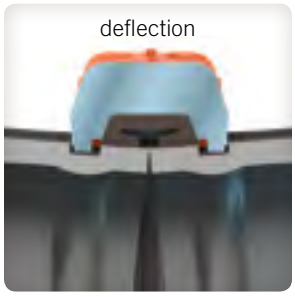
At the core of all the benefits that Victaulic® solutions bring to a project – such as productivity, safety, design flexibility and quality – are the unique features of our products.

VICTAULIC® GROOVED END PIPING SYSTEMS PROVIDE:

Easy system maintenance and expansion – through simple coupling disassembly that allows for easy access.

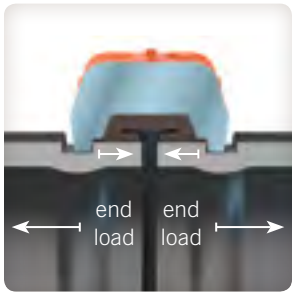
Alignment ease – through a design that allows for full rotation of the pipe and system components before tightening.





Flexibility – with the inherent axial movement and deflection properties of flexible couplings in a groove system. May be used to accommodate pipeline thermal expansion and contraction, misalignment and settlement, and seismic stress absorption.

Noise and vibration attenuation – by isolating the transference of vibration at each joint.



Self restrained pipe joints – Couplings engage the pipe grooves to hold the pipes against full pressure thrust loads without the need of supplemental restraints.

Rigidity – with an angled pad design that provides positive clamping of the pipe to resist torsional and flexural loads.

Original Groove System (OGS)

The Victaulic® grooved piping system is the most versatile, economical, and reliable piping system available. It is up to three times faster to install than welding, easier and more reliable than threading or flanging, resulting in lower total installed cost. The system is designed for roll grooved or cut grooved standard pipe or roll grooved light wall pipe. Also, pipe end preparation is fast and easy. It can be done on the job site or in the shop with a variety of Victaulic® grooving tools.

With the introduction of Victaulic® Installation-Ready™ technology, the original groove system has evolved to a new level. Grooved couplings featuring this patented Victaulic® technology install ten times faster than other pipe joining methods. Why is it different? Prior to Victaulic® Installation-Ready™ technology, grooved coupling assembly consisted of disassembling the coupling by removing the bolts and nuts, removing the gasket, fitting the gasket over the gap between two grooved pipe ends, wrapping the housings around the gasket and then tightening down the bolts and nuts. Couplings featuring Installation-Ready™ technology come pre-assembled and are simply pushed onto a grooved pipe end, joined by a second grooved pipe end, and then bolts and nuts are tightened down. What previously required minutes, now takes only seconds.

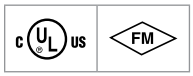
QuickVic® Rigid Coupling

STYLE 107

Download submittal 06.21 for complete information

- Angled bolt pad provides rigidity
- Sizes from 2–12" | 50–300 mm
- Pressures up to 750 psi | 5175 kPa
- For coating options, download product submittal

Approvals/Listings:



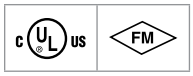
QuickVic® Flexible Coupling

STYLE 177

Download submittal 06.20 for complete information

- Sizes from 2–8" | 50–200 mm
- Pressures up to 1000 psi | 6900 kPa
- For coating options, download product submittal

Approvals/Listings:



Composite Flexible Coupling

STYLE 171

Download submittal 06.22 for complete information

- For use where corrosive conditions exist
- Designed for use on reverse osmosis systems
- For use on roll/cut grooved PVC
- For stainless steel and FRP applications, contact Victaulic®
- Sizes from 1½–4" | 40–100 mm
- Pressures up to 150 psi | 1034 kPa

Zero-Flex® Rigid Coupling

STYLE 07

Download submittal 06.02 for complete information

- Angled bolt pad provides rigidity
- Sizes from 1–12" | 25–300 mm
- Pressures up to 750 psi | 5175 kPa
- For coating options, download product submittal
- For sizes 14–50" | 350–1250 mm, download submittal 20.02 for information on AGS Style W07

Approvals/Listings:

UL | FM | ULC | VdS | LPCB 104-1a/02 | CTP | DVGW

Flexible Coupling

STYLE 77

Download submittal 06.04 for complete information

- Cross-ribbed, two piece housing construction
- Sizes from ¾–24" | 20–600 mm
- Pressures up to 1000 psi | 6900 kPa
- For coating options, download product submittal
- For sizes 14–72" | 350–1825 mm, download submittal 20.03 for information on AGS Style W77

Approvals/Listings:

UL | FM | ULC | VdS | LPCB 104-1a/04 | CTP

Flexible Coupling

STYLE 75

Download submittal 06.05 for complete information

- Lightweight coupling for moderate pressures
- Sizes from 1–8" | 25–200 mm
- Pressures up to 500 psi | 3450 kPa
- For coating options, download product submittal

Approvals/Listings:

UL | FM | ULC | VdS | LPCB 104-1a/03 | DVGW

Reducing Coupling

STYLE 750

Download submittal 06.08 for complete information

- Replaces two couplings and a reducing fitting
- Sizes from 2–10" | 50–275 mm
- Pressures up to 500 psi | 3450 kPa
- For coating options, download product submittal

Approvals/Listings:

UL | FM | ULC | VdS | LPCB 104-1a/05 | CE

Snap-Joint® Coupling

STYLE 78

Download submittal 06.09 for complete information

- Designed for quick disconnect service
- Sizes from 1–8" | 25–200 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal

Outlet Coupling

STYLE 72

Download submittal 06.10 for complete information

- Joining device to provide an integral reducing outlet
- Sizes from 1½–6" | 40–150 mm
- Pressures up to 500 psi | 3450 kPa
- For coating options, download product submittal

Approvals/Listings:

UL | FM | ULC

Vic-Boltless® Coupling and Tool

STYLES 791 AND 792

Download submittal 06.11 **for complete information**

- Provides a secure, tamper resistant, low profile joint
- Installed only with Victaulic® Style 792 tool
- Sizes from 2–8" | 50–200 mm
- Pressures up to 700 psi | 4825 kPa
- For coating options, download product submittal

Approvals/Listings:

High Pressure Rigid Coupling

STYLE HP-70

Download submittal 06.12 **for complete information**

- Heavy housing for high pressure service
- Sizes from 2–16" | 50–400 mm
- Pressures up to 1000 psi | 6900 kPa
- For coating options, download product submittal

Approvals/Listings:

Style XL77
Pipe-to-Fitting
Connections

Style XL79
Fitting-to-Fitting
Connections

XL Couplings for use with XL Fittings

Style XL77 and XL79

Download submittal 07.07 **for complete information**

- For use with XL (extended life) fittings
- Style XL77 for pipe-to-fitting connections
- Style XL79 for fitting-to-fitting connections
- Sizes from 3–12" | 80–300 mm
- For pressures up to 1000 psi | 6900 kPa

XL Fittings for Rubber Lined Services
See pg. 22
for information.

Vic-Ring® Coupling

STYLE 41

Download submittal 16.04 for complete information

- Provided with a variety of ring options to maintain full pipe wall thickness for abrasive systems
- Sizes from 30 – 66" | 750 – 1675 mm
- Pressures up to 90 psi | 620 kPa
- For coating options, download product submittal
- For AGS Vic-Ring® products, see pg. 26

Vic-Ring® Coupling

STYLE 44

Download submittal 16.05 for complete information

- Provided with a variety of ring options to maintain full pipe wall thickness for abrasive systems
- Sizes from 4 – 60" | 100 – 1500 mm
- Pressures up to 175 psi | 1200 kPa
- For coating options, download product submittal
- For AGS Vic-Ring® products, see pg. 26

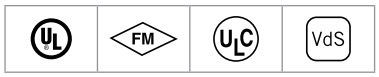
Vic-Flange® Adapter

STYLE 741

Download submittal 06.06 for complete information

- ANSI Class 125 and 150 flanges
- Also available for Australian Standard Table E and PN10
- Sizes from 2–24" | 50–600 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.04** for information on AGS Style W741

Approvals/Listings:



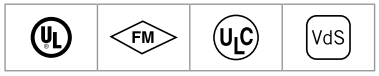
Vic-Flange® Adapter

STYLE 743

Download submittal 06.06 for complete information

- ANSI Class 300 flanges
- Also available for PN16 and JIS 20K
- Sizes from 2–12" | 50–300 mm
- Pressures up to 720 psi | 4960 kPa
- For coating options, download product submittal

Approvals/Listings:



Fittings — Elbows

Download submittal 07.01 for complete information on original grooved end fittings for carbon steel pipe

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–60" | 350–1500 mm, **download submittal 20.05** for complete information

Approvals/Listings:

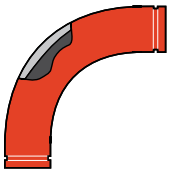
UL | FM | ULC | VdS | LPCB

Elbows

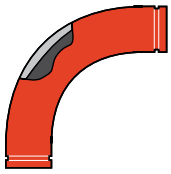
No. 10
90° Elbow

No. 100
90° Long Radius Elbow

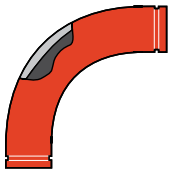
No. 100-1½D
90° 1½ D Long Radius Elbow



No. 100-3D
90° 3 D Long Radius Elbow



No. 100-5D
90° 5 D Long Radius Elbow



No. 100-6D
90° 6 D Long Radius Elbow

No. 11
45° Elbow

No. 110
45° Long Radius Elbow

No. 110-1½D
45° 1½ D Long Radius Elbow

No. 110-3D
45° 3 D Long Radius Elbow

No. 110-5D
45° 5 D Long Radius Elbow

No. 110-6D
45° 6 D Long Radius Elbow

No. 12
22½° Elbow

No. 13
11¼° Elbow

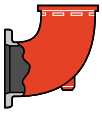
No. 18
90° Adapter Elbows

No. 19
45° Adapter Elbows

All fittings are available with optional galvanized coating.

No. 10-DR
Drain Elbow

No. R-10G
Reducing Base Support Elbows (OGS Groove × OGS Groove)



No. R-10F
Reducing Base Support Elbows (OGS Groove × Flange)

Fittings — Tees, Crosses, Wyes and Laterals

Download submittal 07.01 for complete information on original grooved end fittings for carbon steel pipe

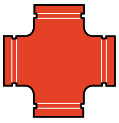
- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–60" | 350–1500 mm, download submittal 20.05 for complete information

Approvals/Listings:

UL | FM | ULC | VdS | LPCB

Tees, Crosses, Wyes, and Laterals

No. 20
Tee



No. 35
Cross

No. 33
True Wye

No. 29M
Tee with Threaded Branch

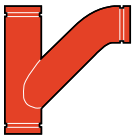
No. 25
Grooved Branch Reducing Tee

No. 29T
Threaded Branch Reducing Tee

No. 21
Bullhead Tee

No. 30
45° Lateral

No. 30-R
45° Reducing Lateral



No. 32
Tee Wye

No. 32-R
Reducing Tee Wye

Fittings — Adapters, Nipples, Caps and Plugs

Download submittal 07.01 for complete information on original grooved end fittings for carbon steel pipe

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–60" | 350–1500 mm, download submittal 20.05 for complete information

Approvals/Listings:

UL | FM | ULC | VdS | LPCB

Adapters, Nipples, Caps and Plugs

No. 40
Adapter Nipple (OGS Groove × Thread)

No. 42
Adapter Nipple (OGS Groove × Bevel)

No. 43
Adapter Nipple (OGS Groove × OGS Groove)

No. 80
Female Threaded Adapter

No. 53
Swaged Nipple (OGS Groove × OGS Groove)

No. 54
Swaged Nipple (OGS Groove × Thread)

No. 55
Swaged Nipple (Thread × OGS Groove)

No. 60
Cap

No. 61
Bull Plug

No. 48
Hose Nipple

No. 41
ANSI Class 125 Flanged Adapter Nipple

No. 45F
ANSI Class 150 Flat Face Flanged Adapter Nipple

No. 45R
ANSI Class 150 Raised Face Flanged Adapter Nipple

No. 46F
ANSI Class 300 Flat Face Flanged Adapter Nipple

No. 46R
ANSI Class 300 Raised Face Flanged Adapter Nipple

Approvals/Listings:

Fittings — Reducers

Download submittal 07.01 for complete information on original grooved end fittings for carbon steel pipe

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–60" | 350–1500 mm, download submittal 20.05 for complete information

Reducers

No. 50
Concentric Reducer

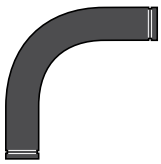
No. 51
Eccentric Reducer

No. 52
Small Threaded Reducer

No. 52F
BSPT Small Threaded Reducer

No. XL100
1½D
90° Elbow

No. XL110
1½D
45° Elbow



No. XL100
3D
90° Elbow

No. XL110
3D
45° Elbow

XL Fittings for Rubber Lined Services
See pg. 22 for information.

Other Fitting Systems

Download submittal 07.02 for long radius steel elbows (3D, 5D, and 6D)

Download submittal 07.03 for EndSeal® Extra Heavy (ES) fittings

Download submittal 07.04 for fabricated steel fittings (segmentally welded and full flow)

Download submittal 07.07 for XL fittings

Download submittal 14.04 for plain end fittings

Download submittal 17.16 for stainless steel fittings

Download submittal 18.11 for Type 316 Vic-Press® fittings

Download submittal 18.12 for Type 304 Vic-Press® fittings

Download submittal 20.05 for AGS™ fittings

Download submittal 21.03 for aluminum fittings

Download submittal 22.04 for copper fittings

Download submittal 23.05 for AWWA fittings

Download submittal 25.03 for alternate style fittings machined for rubber or urethane lining

Download submittal 50.01 for Aquamine® fittings

Mover® Expansion Joint

STYLE 150

Download submittal 09.04 for complete information

- Slip-type expansion joint providing up to 3" | 80 mm axial end movement
- Sizes from 2–6" | 50–150 mm
- Pressures up to 350 psi | 2400 kPa
- For additional types of expansion joints, see pg. 35

Expansion Joint

STYLE 155

Download submittal 09.05 for complete information

- Combination of couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.12** for information on Style W155
- For additional types of expansion joints, see pg. 35

Vic-300® MasterSeal™ Butterfly Valve

SERIES 761

Download submittal 08.20 for complete information

- Designed for bi-directional, dead end services to full working pressure
- Available bare, with gear operator, with lever lock handle and memory stop or with 10-position handle and memory stop
- Sizes from 2–12" | 50–300 mm
- Pressures up to 300 psi | 2065 kPa
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.06** for information on Series W761
- For AGS sizes 26–48" | 650–1200 mm, **download submittal 20.07** for information on Series W709

Butterfly Valve

SERIES 700

Download submittal 08.05 for complete information

- Two piece stem permits narrow disc design for low pressure drop performance
- Sizes from 1½–6" | 40–150 mm
- Pressures up to 200 psi | 1400 kPa

Vic-Check® Valve

SERIES 716H

Download submittal 08.08 for complete information

- Features a stainless steel disc which seats against the o-ring seal, when mounted on the electroless nickel plated face
- Sizes from 2–3" | 50–80 mm
- Pressures up to 365 psi | 2500 kPa
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.08** for information on Series W715

Vic-Check® Valve

SERIES 716

Download submittal 08.08 for complete information

- Features an elastomer encapsulated disc and a welded in nickel seat
- Sizes from 4–12" | 100–300 mm
- Pressures up to 300 psi | 2065 kPa
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.08** for information on Series W715

Venturi Check Valve

SERIES 779

Download submittal 08.10 for complete information

- Provides a variety of functions unlike any other measuring device
- Sizes from 4–14" | 100–350 mm
- Pressures up to 300 psi | 2065 kPa

Swinger® Swing Check Valve

SERIES 712

Download submittal 08.11 for complete information

- Designed for use with Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Sizes from 2–4" | 50–100 mm
- Pressures up to 300 psi | 2065 kPa

Swinger® Swing Check Valve

SERIES 713

Download submittal 08.11 for complete information

- Designed for use with Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Available size is 2" | 50 mm
- Pressures up to 1000 psi | 6900 kPa

Diverter Valve

SERIES 725

Download submittal 08.40 for complete information

- Provides 180° service on backfill paste lines for increased efficiency and reduced downtime
- Available in 6" | 150 mm
- Pressures up to 1000 psi | 6900 kPa

Vic®-Ball Valve

SERIES 721

Download submittal 08.14 for complete information

- Standard port, end-entry valve with a streamlined design for excellent flow characteristics
- Sizes from 4–6" | 100–150 mm
- Pressures up to 800 psi | 5515 kPa

Vic®-Ball Valve

SERIES 726

Download submittal 08.23 for complete information

- High pressure standard port ball valve with grooved ends
- Available with a lever operator or a gear operator
- Sizes from 1½–6" | 40–150 mm
- Pressures up to 1000 psi | 6900 kPa

Ball Valve

SERIES 727

Download submittal 08.42 for complete information

- High pressure enhanced port NACE-compliant ball valve
- Up to 1/3 better flow than competitive standard port ball valves
- Floating ball reduces torque requirements
- Sizes from 2–6" | 50–150 mm
- Pressure up to 1500 psi | 10350 kPa

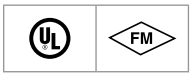
Brass Body Valve — Threaded

SERIES 722

Download submittal 08.15 for complete information

- Standard port, female threaded end valve constructed from forged brass
- Sizes from ¼–2" | 8–50 mm
- Pressures up to 600 psi | 4135 kPa

Approvals/Listings:



Three Port Diverter

SERIES 723

Download submittal 08.13 for complete information

- NACE MR-01-75 compliant, three-port ball valve with common bottom inlet for diverting flow 90° left or right
- Available in 2" | 50 mm size
- Pressures up to 600 psi | 4135 kPa

Vic-Plug® Valve

SERIES 377

Download submittal 08.12 for complete information

- Only eccentric grooved end plug valve made specifically for throttling services
- Sizes from 3–12" | 80–300 mm
- Pressures up to 175 psi | 1200 kPa

MTS Plug Valve

SERIES 465

Download submittal 17.36 for complete information

- Typically used in reverse osmosis desalination plants for on/off and control services
- Sizes from 2 – 18" | 50 – 450 mm
- Pressures up to 1450 psi | 10000 kPa

Triple Service (Duty) Assemblies

BUTTERFLY/CHECK VALVE

Download submittal 08.09 for complete information

- Assembles with Style 107 rigid couplings or Style 177 flexible couplings
- Sizes from 2½ – 12" | 65 – 300 mm
- Pressures up to 300 psi | 2065 kPa
- For AGS sizes 14 – 24" | 350 – 600 mm, **download submittal 20.18** for more information

Approvals/Listings:

Triple Service (Duty) Assemblies

PLUG/CHECK VALVE

Download submittal 08.09 for complete information

- Provides shut-off, throttling with positive mechanical memory and non-slam check service in one unit
- Sizes from 3 – 12" | 80 – 300 mm
- Pressures up to 175 psi | 1200 kPa

Approvals/Listings:

Suction Diffuser

SERIES 731-D

Download submittal 09.20 for complete information

- Provides optimum flow conditions at the inlet side of the pump
- ANSI Class 150 flange
- Also available with PN10/16, GB, JIS 10K or Australian Standard Table E flange
- Sizes from 3–12" | 80–300 mm
- Pressures up to 300 psi | 2065 kPa
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.20** for information on Series W731-D

Vic-Strainer® Tee Type

SERIES 730

Download submittal 09.02 for complete information

- Lighter than flanged Y-type strainers and provides straight through flow for lower pressure drop
- Sizes from 1½–12" | 40–300 mm
- Pressures up to 750 psi | 5175 kPa
- For coating options, download product submittal
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.11** for information on Series W730

Vic-Strainer® Wye Type

SERIES 732

Download submittal 09.03 for complete information

- Provides straight through flow for lower pressure drop
- Sizes from 2–12" | 50–300 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.19** for information on Series W732

EndSeal® System

COUPLING: STYLE HP-70ES; FITTINGS: NO. 62ES, NO. 63ES, NO. 64ES, NO. 35ES, NO. 22ES

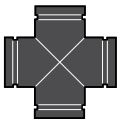
Download submittal 06.13 **for the Style HP-70ES Coupling**
Download submittal 07.03 **for the ES Fittings**

- For plastic coated pipe or high pressure rigid systems
- Schedule 80 wall thickness for use with HP-70ES couplings
- Coupling sizes from 2–12" | 50–300 mm and Fitting sizes from 2–6" | 50–150 mm
- Pressures up to 2500 psi | 17250 kPa
- For coating options, download product submittal

No. 62ES
90° Elbow

No. 63ES
45° Elbow

No. 64ES
Header Tee



No. 35ES
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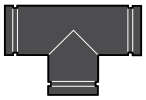


No. 22ES
Tee

High Pressure Coupling

STYLE 808

Download submittal 15.01 **for complete information**

- Double-bolted coupling for use with Schedule 80 or heavier steel pipe
- Sizes from 6–12" | 150–300 mm
- Pressures up to 4000 psi | 27500 kPa
- For coating options, download product submittal

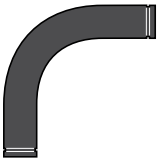
XL (Extended Life) System for Rubber-lined Abrasive Services

Download submittal 07.07 for complete information

- 1½D and 3D elbows designed for ¼" | 6 mm extra lining resulting in up to three times the service life when compared to standard rubber lined fittings
- Sizes from 3 – 12" | 80 – 300 mm
- Comes with Style XL77 flexible couplings for pipe-to-fitting and Style XL79 flexible couplings for fitting-to-fitting connections

No. XL100
1½D
90° Elbow

No. XL110
1½D
45° Elbow



No. XL100
3D
90° Elbow

No. XL110
3D
45° Elbow

Mechanical-T® Spigot Assembly

STYLE 926

Download submittal 11.07 for complete information

- Mining tailings spigot assemblies for 22 – 26" | 550 – 650 mm tailings lines
- Features stainless steel strap and 7" | 178 mm outlet saddle
- Utilizes existing Victaulic® product to complete assembly
- Outlets compatible with steel or HDPE piping systems
- Pressure up to 170 psi | 1200 kPa

Advanced Groove System AGS

Victaulic® offers a comprehensive portfolio of Advanced Groove System (AGS) couplings for systems 14 – 72" | 350 – 1825 mm and a full range of 14 – 48" | 350 – 1200 mm AGS fittings, valves and accessories. Our large diameter piping solutions provide strength and dependability in addition to speed, making them an excellent choice over welding. Other advantages AGS joints provide over welded joints include no flame installation, superior seismic-shock resistance and a union at every joint for easy adjustment, system maintenance or system expansion.

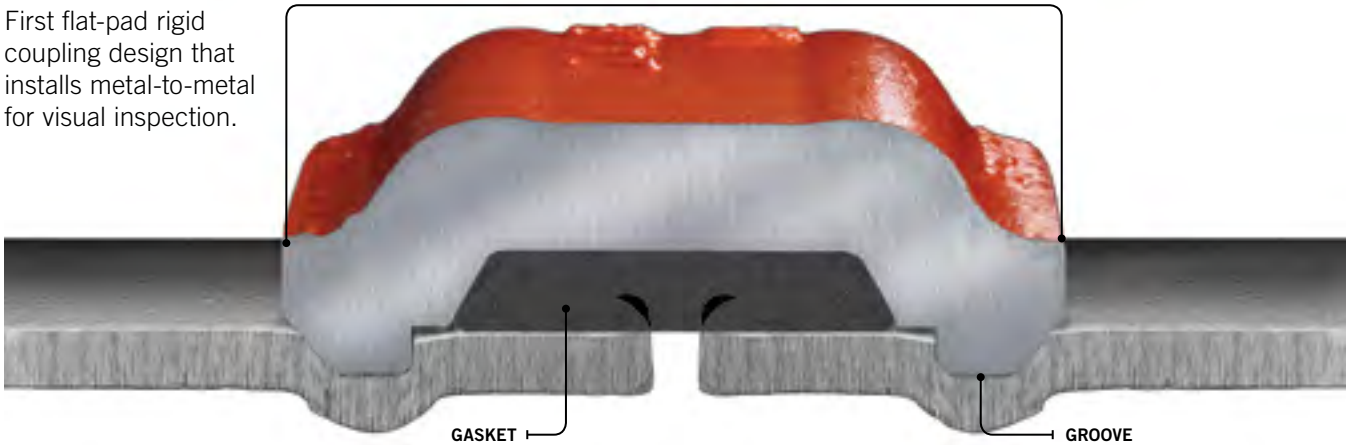
Advanced Groove System AGS™

2-piece design for faster installation

First flat-pad rigid coupling design that installs metal-to-metal for visual inspection.

HOUSING

Wider housing profile for greater end load capability.



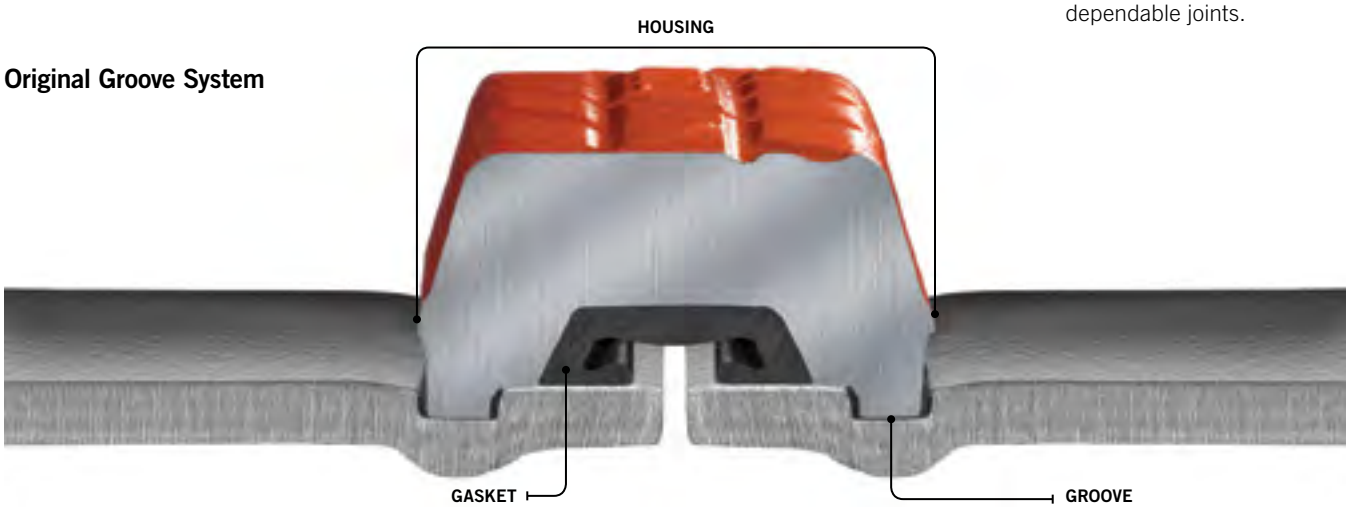
GASKET

The FlushSeal® gasket delivers more contact area for superior sealing.

GROOVE

Patented coupling locks into a deeper, wider, wedge-shaped groove for extremely strong, dependable joints.

Original Groove System



AGS Flexible Coupling

STYLE W77

Download submittal 20.03 for complete information

- Unique wedge shaped key profile increases allowable pipe end separation
- Sizes from 14–72" | 350–1825 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal
- For original groove sizes ¾–24" | 20–600 mm (Style 77), **download submittal 06.04**;
  For original groove couplings featuring Installation-Ready™ technology sizes 2–8" | 50–400 mm (Style 177), **download submittal 06.20**

AGS Rigid Coupling

STYLE W07

Download submittal 20.02 for complete information

- First flat pad, metal-to-metal, rigid coupling to be offered in this size range
- Sizes from 14–50" | 350–1250 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal
- For original groove sizes 1–12" | 25–300 mm (Style 07), **download submittal 06.02**;
  For original groove featuring Installation-Ready™ technology sizes 2–12" | 50–300 mm (Style 107), **download submittal 06.21**

AGS Stainless Steel Rigid Coupling

STYLE W89

Download submittal 20.15 for complete information

- Wedge shaped coupling housing keys fully engage the patented AGS grooves to provide a rigid joint
- Sizes from 14–24" | 350–600 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal
- For original groove sizes 2–12" | 50–300 mm, **download submittal 17.24** for information on Style 89

AGS Vic-Ring® Flexible Coupling

STYLE W77

Download submittal 16.12 for complete information

- Coupling installs on the supplied ring to maintain full pipe wall thickness on abrasive systems
- Sizes from 14 – 72" | 350 – 1825 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal
- For OGS Vic-Ring® products, see pg. 7

AGS Vic-Ring® Rigid Coupling

STYLE W07

Download submittal 16.11 for complete information

- Coupling installs on the supplied ring to maintain full pipe wall thickness on abrasive systems
- Sizes from 14 – 48" | 350 – 1200 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal
- For OGS Vic-Ring® products, see pg. 7

AGS Vic-Flange® Adapter

STYLE W741

Download submittal 20.04 for complete information

- Designed for directly incorporating flanged components with ANSI Class 125-150 bolt hole patterns
- Sizes from 14 – 24" | 350 – 600 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal
- For original groove sizes 2 – 12" | 50 – 300 mm, download submittal 06.06 for information on Style 741

AGS Fittings

Download submittal 20.05 for complete information

- Sizes from 14–60" | 350–1500 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal
- For original groove fittings, download submittal 07.01 for more information

AGS Fittings

No. W10
90° Elbow

No. W11
45° Elbow

No. W12
22½° Elbow

No. W13
11¼° Elbow

No. W100
90° 1½ D Long Radius Elbow

No. W110
45° 1½ D Long Radius Elbow

No. W20
Tee

No. W35
Cross

No. W33
True Wye

No. W25
Reducing Tee

No. W30
45° Lateral

No. W30-R
45° Reducing Lateral

No. W42
Adapter Nipple (AGS Groove × Bevel)

No. W43
Adapter Nipple (AGS Groove × AGS Groove)

No. W49
Adapter Nipple (AGS Groove × OGS Groove)

No. W45R
Flanged Adapter Nipple

No. W50
Concentric Reducer

No. W51
Eccentric Reducer

No. W60
Cap

AGS Expansion Joint

STYLE W155

Download submittal 20.12 for complete information

- Combination of Style W77 couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from 14–24" | 350–600 mm
- For coating options, download product submittal
- For original groove sizes 3–12" | 80–300 mm, download submittal 09.05 for information on Style 155

AGS Vic-300® Butterfly Valve

SERIES W761

Download submittal 20.06 for complete information

- Offers an easily installed choice to cumbersome, multi-bolt wafer or lug-type flanged valves
- Sizes from 14–24" | 350–600 mm
- Pressures up to 300 psi | 2065 kPa
- For original groove sizes 2–12" | 50–300 mm, download submittal 08.20 for information on Series 761

AGS Butterfly Valve

SERIES W709

Download submittal 20.07 for complete information

- Offers an easily installed choice to cumbersome, multi-bolt wafer or lug-type flanged valves
- Sizes from 26–48" | 650–1200 mm
- Pressures up to 150 psi | 1035 kPa

AGS Vic-Check® Dual Disc Valve

STYLE W715

Download submittal 20.08 for complete information

- Utilizes a spring-assisted, dual disc design that achieves drop tight sealing
- Can be installed in both horizontal or vertical flow up positions
- Sizes from 14–24" | 350–600 mm
- Pressures up to 230 psi | 1575 kPa
- For original groove sizes 2–12" | 50–300 mm, **download submittal 08.08** for information on Series 716H/716 or **download submittal 08.10** for information on Series 779

AGS Triple Service Valve Assembly

Download submittal 20.18 for complete information

- Provides shut-off and throttling with positive mechanical memory
- Comprised of a Series W761 AGS butterfly valve and a Series W715 Vic-Check® valve
- Sizes from 14–24" | 350–600 mm
- Pressures up to 232 psi | 1600 kPa
- For original groove sizes 3–12" | 80–300 mm, **download submittal 08.09**

AGS Tee Type Vic-Strainer®

SERIES W730

Download submittal 20.11 for complete information

- Lighter than flanged Y-type strainers and provides straight through flow for lower pressure drop
- Sizes from 14 – 24" | 350 – 600 mm
- Pressures up to 300 psi | 2065 kPa
- For coating options, download product submittal
- For original groove sizes 1½ – 12" | 40 – 300 mm, download submittal 09.02 for information on Series 730

AGS Wye Type Vic-Strainer®

SERIES W732

Download submittal 20.19 for complete information

- Provides straight through flow for lower pressure drop
- Sizes from 14 – 18" | 350 – 450 mm
- Pressures up to 300 psi | 2055 kPa
- For original groove sizes 2 – 12" | 50 – 300 mm, download submittal 09.03 for information on Series 732

AGS Suction Diffuser

SERIES W731-D

Download submittal 20.20 for complete information

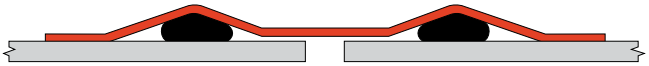
- Provides optimum flow conditions at the inlet side of the pump
- Sizes from 14 – 24" | 350 – 600 mm
- Pressures up to 300 psi | 2065 kPa
- For original groove sizes 3 – 12" | 80 – 300 mm, download submittal 09.20 for information on Series 731-D

Victaulic® Bolted Split-Sleeve Products (VBSP)

Victaulic® offers a variety of large diameter pipe joining solutions specifically designed to meet the needs of your system.

Conforming to AWWA C227, Victaulic® Bolted Split-Sleeve couplings are available in a range of unrestrained and restrained flexible designs for use on carbon steel, stainless steel, HDPE and other pipe materials.

Victaulic® Bolted Split-Sleeve couplings are designed for use on water and wastewater transmission lines as well as hydroelectric penstock lines. VBSP couplings can also provide expansion and contraction capabilities when needed.



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Restrained Flexible Single-Gasket Coupling for Carbon Steel Pipe (Style 234)	32
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Non-Restrained Flexible Coupling for Carbon Steel Pipe

STYLE 230

Download submittal 60.01 for complete information

- Non-restrained flexible pipe joint for water and wastewater pipelines
- Sizes from 8 – 144" | 200 – 3600 mm
- Pressures up to 400 psi | 2750 kPa
- Up to ½" | 15 mm intermittent axial movement
- Satisfies the requirements of AWWA C227
- For coating options, download product submittal

Non-Restrained Flexible Coupling for Stainless Steel Pipe

STYLE 230S

Download submittal 60.02 for complete information

- Non-restrained flexible pipe joint used where corrosion resistance is required
- Sizes from 3–96" | 80–2400 mm
- Pressures up to 300 psi | 2065 kPa
- Up to ½" | 15 mm intermittent axial movement
- Satisfies the requirements of AWWA C227

Restrained Flexible Single-Gasket Coupling for Carbon Steel Pipe

STYLE 234

Download submittal 60.09 for complete information

- Sizes from 8–120" | 200–3000 mm
- Pressures up to 300 psi | 2065 kPa
- Designed for use on water transmission, force mains and penstock lines
- For coating options, download product submittal

Restrained Flexible Single-Gasket Coupling for Stainless Steel Pipe

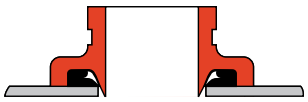
STYLE 234S

Download submittal 60.10 for complete information

- Sizes from 8–60" | 200–1500 mm
- Pressures up to 200 psi | 1375 kPa
- Ideal for field joint connections requiring flexibility and thrust restraint

Hole Cut Systems

Victaulic® developed the hole cut piping system concept to enable a fast and easy mid-pipe outlet solution that would not require welding. The system allows for a direct branch connection at any location where a hole can be cut in the pipe. Gaskets are molded to conform to the outer diameter of the pipe and are pressure responsive to provide a seal. 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 924), and provide a smooth flow area.



Mechanical-T® Outlet

STYLE 920/920N

Download submittal 11.02 for complete information

- Provides a direct branch connection at any location where a hole can be cut in the pipe
- Available as a cross outlet, a female threaded outlet or a grooved outlet
- Sizes from 2–8" | 50–300 mm
- Pressures up to 500 psi | 3450 kPa
- For coating options, download product submittal

Approvals/Listings:

LPCB 104-1a/26

Outlet Coupling

STYLE 72

Download submittal 06.10 **for complete information**

- Joining device to provide an integral reducing outlet
- Sizes from 1½–6" | 40–150 mm
- Pressures up to 500 psi | 3450 kPa
- For coating options, download product submittal

Approvals/Listings:

Vic-Let® Strapless Outlet

STYLE 923

Download submittal 11.05 **for complete information**

- Provides a fast, easy pipe outlet without the need for a strap or lower housing
- Sizes from 4–10" | 100–250 mm
- Pressures up to 300 psi | 2065 kPa

Approvals/Listings:

Vic-O-Well® Strapless Thermometer Outlet

STYLE 924

Download submittal 11.06 **for complete information**

- Provides a fast, easy connection, combining the features of a thermowell and strapless mechanical outlet
- Sizes from 4–10" | 100–250 mm
- Pressures up to 300 psi | 2065 kPa

Expansion Joints

Victaulic® offers a wide variety of expansion solutions to accommodate pipe movement in your system. Victaulic® expansion joints can provide from 4 – 42" | 100 – 1050 mm of movement in a piping system. Select expansion joints allow for deflection as well as expansion and contraction capabilities. Stainless steel expansion joints are available for air systems requiring expansion compensators. Victaulic® expansion joints are available with Original Groove System (OGS), Advanced Groove System (AGS), bolted split-sleeve, and flanged ends.

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Mover® Expansion Joint

STYLE 150

Download submittal 09.04 for complete information

- Slip-type expansion joint providing up to 3" | 80 mm axial end movement
- Sizes from 2–6" | 50–150 mm
- Pressures up to 350 psi | 2400 kPa
- For coating options, download product submittal

Expansion Joint

STYLE 155

Download submittal 09.05 for complete information

- Combination of couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from ¾–24" | 20–600 mm
- For coating options, download product submittal
- For AGS sizes 14–24" | 350–600 mm, **download submittal 20.12** for information on Style W155

AGS Expansion Joint

STYLE W155

Download submittal 20.12 for complete information

- Combination of Style W77 couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from 14–24" | 350–600 mm
- For coating options, download product submittal
- For original groove sizes 3–12" | 80–300 mm, **download submittal 09.05** for information on Style 155

Non-Restrained Flexible Expansion Coupling for Carbon Steel Pipe

STYLE 231

Download submittal 60.03 for complete information

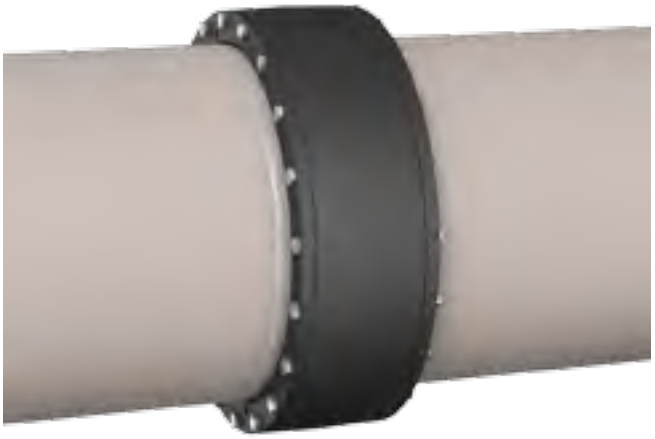
- Non-restrained flexible expansion joint provides up to 4" | 100 mm of axial movement
- Sizes from 16 – 144" | 400 – 3600 mm
- Pressures up to 300 psi | 2065 kPa
- Satisfies the requirements of AWWA C227
- For coating options, download product submittal

Non-Restrained Flexible Expansion Coupling for Stainless Steel Pipe

STYLE 231S

Download submittal 60.04 for complete information

- Flexible non-restrained expansion joint for aeration systems
- Sizes from 3 – 96" | 80 – 2400 mm
- Pressures up to 300 psi | 2065 kPa
- Up to 4" | 100 mm axial movement
- Satisfies the requirements of AWWA C227

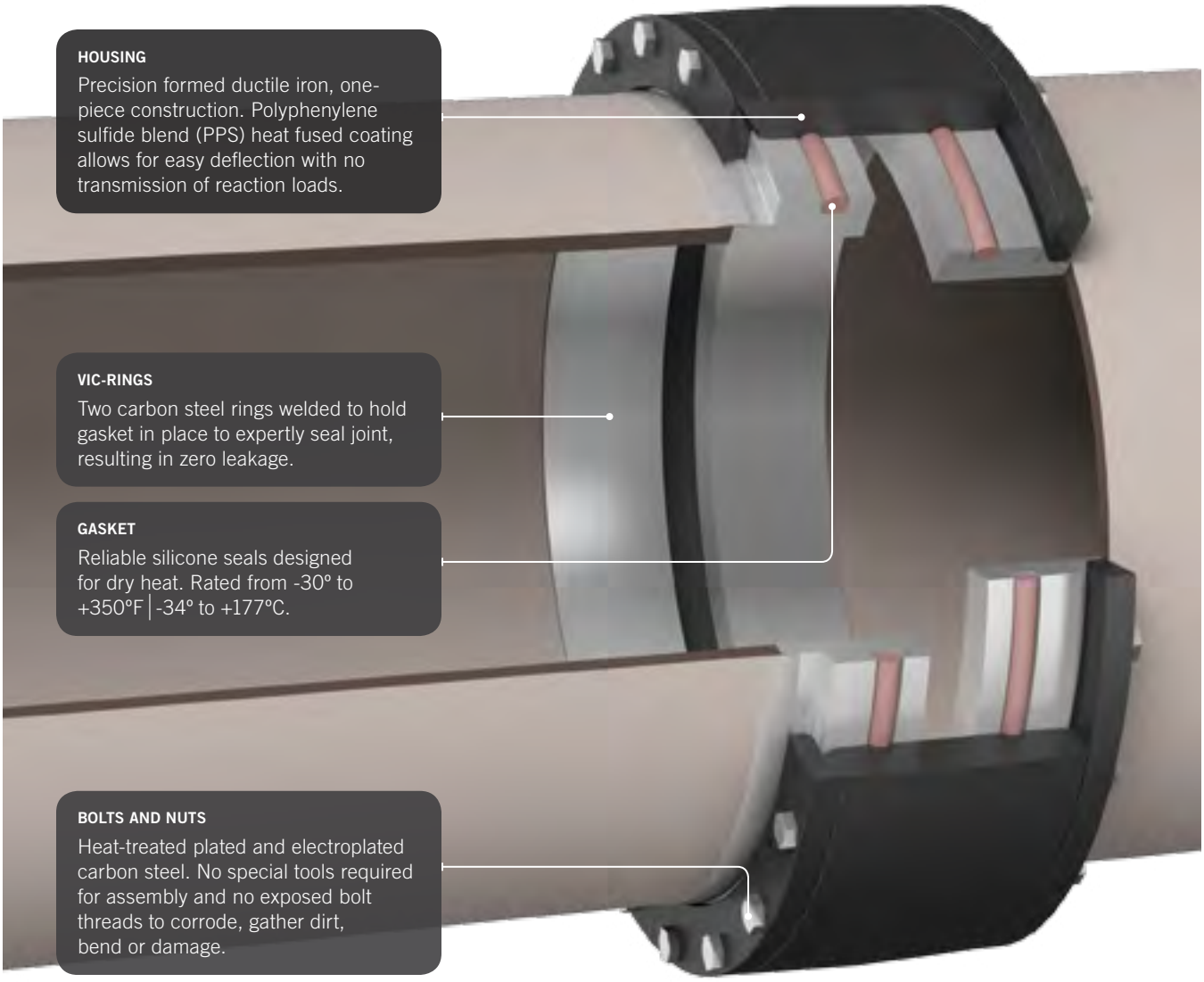


Expansion Joint Coupling

STYLE 152A

Download submittal 09.15 for complete information

- Large diameter pulverized coal/limestone coupling with 4° of deflection capability
- Sizes from 10–30" | 250–750 mm
- Pressures up to 50 psi | 345 kPa

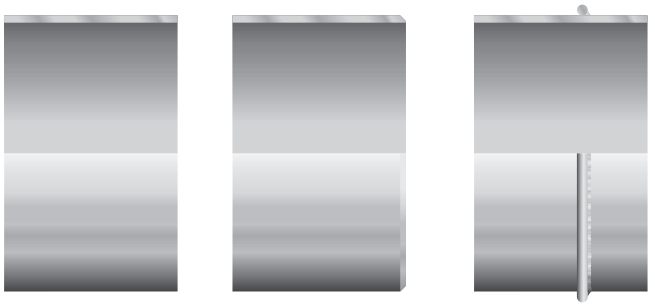


Stainless Steel Bellow Expansion Joint

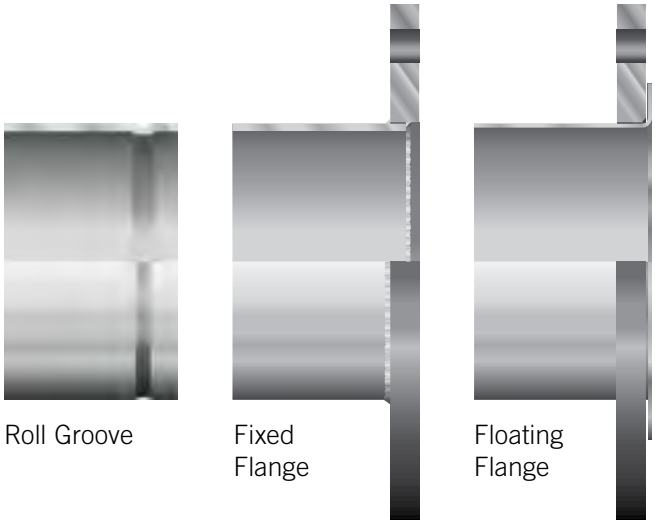
STYLE 240S

Download submittal 60.13 for complete information

- Concurrent axial, angular and/or lateral pipe movement possible
- Lateral offset at pipeline joints
- Designed to job-specific parameters
- Sizes from 3–96" | 80–2400 mm



Plain End | Beveled End | Restraint Ring

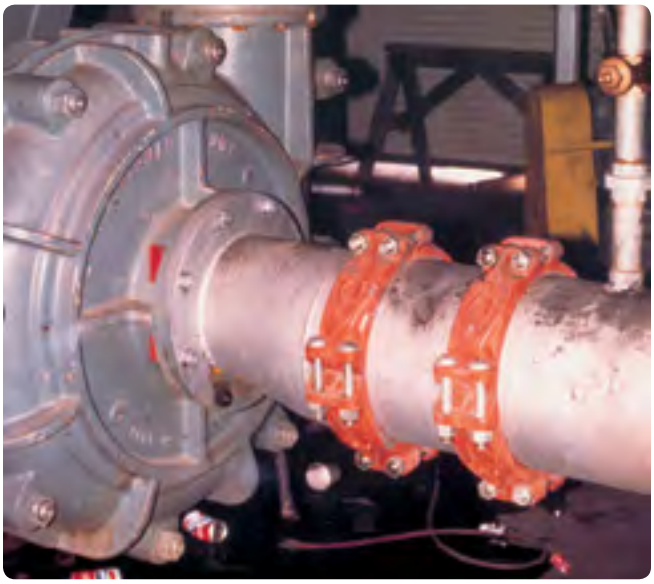


Roll Groove | Fixed Flange | Floating Flange

Plain End Systems for Carbon Steel

The Victaulic® plain end piping method is ideal for maintenance and repairs as well as new systems such as roof drains, slurries, tailings and oil field services. 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 light wall steel or other metallic pipe, such as aluminum or stainless steel. They are not intended for use on plastic pipe, plastic-coated pipe or brittle pipe, such as asbestos cement or cast iron. Nor are they intended for use on pipe with a surface hardness greater than 150 Brinell.



Roust-A-Bout® Plain End Coupling

STYLE 99

Download submittal 14.02 for complete information

- Grips to provide a strong component for joining plain and beveled end pipe and fittings
- Not designed for use with plastic pipe
- Sizes from 1 – 18" | 25 – 450 mm
- Pressures up to 750 psi | 5175 kPa
- For coating options, download product submittal

Fittings

Download submittal 14.04 for complete information

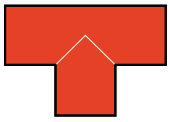
- Provides change of direction to plain end piping systems
- Ready to install fitting
- Compatible with Style 99 Roust-A-Bout® coupling
- For coating options, download product submittal

No. 10P
90° Elbow

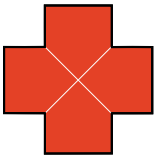
No. 11P
45° Elbow

No. 100P
90° Long Radius Elbow

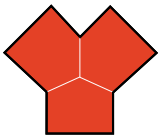
No. 110P
45° Long Radius Elbow



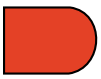
No. 20P
Tee



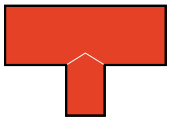
No. 35P
Cross



No. 33P
True Wye



No. 61P
Steel Bull Plug



No. 25P
Reducing Tee

No. 30P
45° Lateral

No. 53P
Swaged Nipple

No. 40P
Adapter Nipple (Plain End × Thread)

No. 42P
Adapter Nipple (Plain End × Bevel)

No. 43P
Adapter Nipple (Plain End × Groove)

Stainless Steel Systems

The Victaulic® grooved system for stainless steel pipe offers a fast, easy and reliable method for joining ANSI and ISO wall thickness stainless steel pipe. For light wall and thin wall stainless steel pipe, specially designed RX rolls are used to create the proper groove profile required for installing Victaulic® products (download submittal 17.01 for more detail.)

The revolutionary Vic-Press® for schedule 10S system provides quick, easy and safe installation and maintenance. It has the integrity to stand up to the demands of industrial applications by providing a positive mechanical interlock between the pipe and the fitting. The Vic-Press® for Schedule 10S press-to-connect system joins off-the-shelf ASTM A-312 stainless steel pipe.

In addition to the products listed below, the following Victaulic products may also be used on Stainless Steel pipe. Refer to the individual product submittals for additional information.

- Style 07 Rigid Coupling
- Style HP-70 Rigid Coupling
- Style 75 Flexible Coupling
- Style 77 Flexible Coupling
- Style 171 Flexible Coupling
- Style 78 Snap Joint Coupling
- Style 791 Boltless Coupling
- Style 741 Flange Adapter
- Style 743 Flange Adapter

Regardless of the coupling selected to join stainless steel pipe, the Victaulic® pressure responsive elastomeric gasket seals the joint. Stainless steel housings provide the highest level of protection against external corrosion, while ductile iron couplings can be used to join stainless steel pipe in non-corrosive environments. For pressure ratings and end loads for ductile iron couplings on stainless steel pipe, download submittal 17.09.

Type 316 Rigid Coupling

STYLE 489

Download submittal 17.25 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Sizes from 1½–12" | 40–300 mm
- Pressures up to 600 psi | 4135 kPa
- For the duplex stainless steel coupling, download submittal 17.33 for Style 489DX

Rigid Coupling

STYLE 89

Download submittal 17.24 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Galvanized coated ductile iron coupling
- Sizes from 2–12" | 50–300 mm
- Pressures up to 1200 psi | 8275 kPa
- For the duplex stainless steel coupling, download submittal 17.33 for Style 489DX

Duplex Rigid Coupling

STYLE 489DX

Download submittal 17.33 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Sizes from 2–12" | 50–300 mm
- Pressures up to 1200 psi | 8275 kPa
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, download submittal 17.25 for Style 489

Type 316 Flexible Coupling

STYLE 77S

Download submittal 17.03 for complete information

- Provides a rugged mechanical joint for grooved end stainless steel piping systems
- Sizes from 8–18" | 200–450 mm
- Pressures up to 300 psi | 2065 kPa
- For sizes ¾–6" | 20–150 mm, download submittal 17.20 for information on Style 77DX

Type 316 Lightweight Flexible Coupling

STYLE 475

Download submittal 17.14 for complete information

- Designed to provide a durable mechanical joint for grooved end stainless steel piping systems
- Sizes from 1–4" | 25–100 mm
- Pressures up to 500 psi | 3450 kPa

Duplex Flexible Coupling

STYLE 77DX

Download submittal 17.20 for complete information

- Designed to provide a rugged mechanical joint for roll grooved stainless steel systems
- Sizes from ¾–6" | 20–150 mm
- Pressures up to 1200 psi | 8275 kPa
- Optional super duplex stainless steel housing
- For sizes 8–18" | 200–450 mm, download submittal 17.03 for information on Style 77S

Duplex Lightweight Flexible Coupling

STYLE 475DX

Download submittal 17.34 for complete information

- Unique coupling design permits assembly by removing one nut/bolt and scissoring housing over gasket
- Sizes from 1–4" | 25–100 mm
- Pressures up to 500 psi | 3450 kPa
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, download submittal 17.14 for Style 475

Vic-Flange® Adapter

STYLE 441

Download submittal 17.27 for complete information

- ANSI Class 150 flanges
- Also available for ISO PN10/16
- Constructed from Grade CF8M stainless steel, making it ideal for externally corrosive environments
- Sizes from 2–6" | 50–150 mm
- Pressures up to 275 psi | 1900 kPa

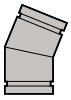
ANSI Schedule 10S Fittings

Download submittal 17.16 for complete information

- Grooved ends eliminate pipe end preparation for the fittings
- Sizes from ¾ – 12" | 20 – 300 mm
- Available in Type 304L or 316L

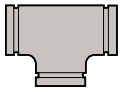
No. 410 SS
90° Elbow

No. 411 SS
45° Elbow

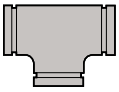


No. 412 SS
22½° Elbow

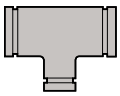
No. 413 SS
11¼° Elbow



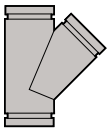
No. 420 SS
Tee



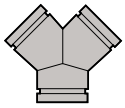
No. 20 SS
Tee



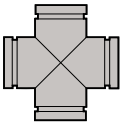
No. 425 SS
Grooved Branch Reducing Tee



No. 430 SS
45° Lateral



No. 433 SS
True Wye



No. 435 SS
Cross

No. 442 SS
Adapter Nipple (Groove × Bevel)

No. 443 SS
Adapter Nipple (Groove × Groove)

No. 450 SS
Concentric Reducer

No. 451 SS
Eccentric Reducer

No. 460 SS
Cap

No. 445F
Flat Face Flanged Adapter Nipple

No. 445R
Raised Face Flanged Adapter Nipple

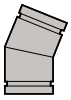
ANSI Schedule 40S Fittings

Download submittal 17.16 for complete information

- Grooved ends eliminate pipe end preparation for the fittings
- Sizes from ¾–12" | 20–300 mm
- Available in Type 304L or 316L
- Designed for higher pressure systems

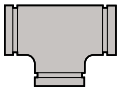
No. 410H SS
90° Elbow

No. 411H SS
45° Elbow

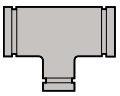


No. 412H SS
22½° Elbow

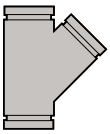
No. 413H SS
11¼° Elbow



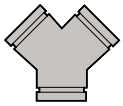
No. 420H SS
Tee



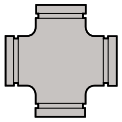
No. 425H SS
Grooved Branch Reducing Tee



No. 430H SS
45° Lateral



No. 433H SS
True Wye



No. 435H SS
Cross

No. 440H SS
Adapter Nipple (Groove × Thread)

No. 442H SS
Adapter Nipple (Groove × Bevel)

No. 443H SS
Adapter Nipple (Groove × Groove)

No. 450H SS
Concentric Reducer

No. 451H SS
Eccentric Reducer

No. 60 SS
Cap

Butterfly Valve

SERIES 763

Download submittal 17.23 for complete information

- The disc is constructed of stainless steel and provides a bubble-tight shut-off at full rated pressure
- Available with a tamper resistant lever handle or a gear operator
- Sizes from 2–10" | 50–250 mm
- Pressures up to 300 psi | 2065 kPa

Swinger® Check Valve

SERIES 712S

Download submittal 17.08 for complete information

- The large closure access bonnet permits easy access for in-line service
- Designed for use with standard Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Available in size 2" | 50 mm

Vic-Ball® Valve

SERIES 726S

Download submittal 17.22 for complete information

- High pressure Type 316 stainless steel standard port ball valve with grooved ends
- Sizes from 1½–6" | 40–150 mm
- Pressures up to 1000 psi | 6900 kPa

Vic-Ball® Valve

SERIES 726D

Download submittal 17.28 for complete information

- High pressure super duplex stainless steel standard port ball valve with grooved ends
- Sizes from 2–6" | 50–150 mm
- Pressures up to 1200 psi | 8275 kPa

Three-Piece Vic-Press® Ball Valve

SERIES P569 (Grv. × Grv.)

Download submittal 18.14 for complete information

- The three-piece swing-out design permits easy in-line maintenance.
- Sizes from ½–2" | 15–50 mm
- Pressures up to 400 psi | 2750 kPa
- For the entire Vic-Press® line of products, see pgs. 51 and 52

MTS Plug Valve

SERIES 465

Download submittal 17.36 for complete information

- Typically used in reverse osmosis desalination plants for on/off and control services
- Sizes from 2–18" | 50–450 mm
- Pressures up to 1450 psi | 10000 kPa

Vic-Press® For Schedule 10S Stainless Steel Type 304

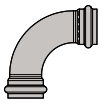
Download submittal 18.12 for complete information

- Fast, easy, reliable way to join small diameter Type 304/304L stainless steel
- Meet ASME requirements for ANSI Class 150 systems
- Designed for systems from ½–2" | 15–50 mm for working pressures up to 500 psi | 3450 kPa

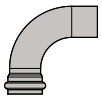
Connection Key

P Press
F Female Thread
M Male Thread
T Plain End
L Flanged
G Grooved

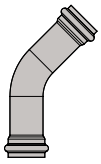
Style P597
Standard Coupling
(P×P)



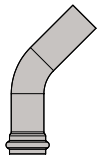
Style P586
Short Tangent 90° Elbow
(P×P)



Style P542
90° Street Elbow
(P×T)

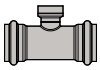


Style P591
45° Elbow
(P×P)

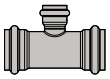


Style P543
45° Street Elbow
(P×T)

Style P592
Tee
(P×P×P)



Style P588
Tee with Threaded Branch
(P×P×F)

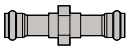


Style P593
Tee with Reducing Branch
(P×P×P)

Style P596
Male Threaded Adapter
(P×M)

Style P599
Female Threaded Adapter
(P×F)

Style P561
Weld Adapter
(P×T)

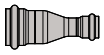


Style P584
Threaded Union
(P×P)

Style P595
Flange Adapter
(P×L)

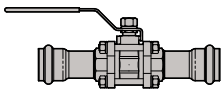
Style P565
Van Stone Flange Adapter
(P×L)

Style P587
Transition Nipple
(G×T)

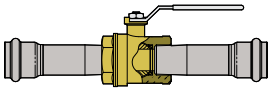


Style P594
Concentric Reducer
(P×P)

Style P540
End Cap



Style P569
Stainless Steel Ball Valve
(P×P shown)
(G×G and P×G also available)



Style P589
Brass Body Ball Valve
(P×P)

PFT510
Vic-Press® Tool,
pg. 107

Vic-Press® For Schedule 10S Stainless Steel Type 316

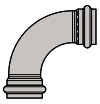
Download submittal 18.11 for complete information

- Fast, easy, reliable way to join small diameter Type 316/316L stainless steel
- Meet ASME requirements for ANSI Class 150 systems
- Designed for systems from ½–2" | 15–50 mm for working pressures up to 500 psi | 3450 kPa

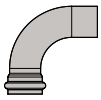
Connection Key

P Press
F Female Thread
M Male Thread
T Plain End
L Flanged
G Grooved

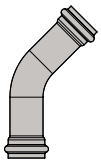
Style P507
Standard Coupling
(P×P)



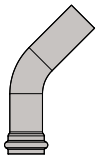
Style P568
Short Tangent 90° Elbow
(P×P)



Style P562
90° Street Elbow
(P×T)



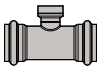
Style P571
45° Elbow
(P×P)



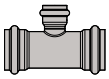
Style P563
45° Street Elbow
(P×T)

Style P508
Slip Coupling
(P×P)

Style P572
Tee
(P×P×P)



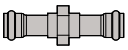
Style P578
Tee with Threaded Branch
(P×P×F)



Style P573
Tee with Reducing Branch
(P×P×P)

Style P576
Male Threaded Adapter
(P×M)

Style P579
Female Threaded Adapter
(P×F)

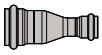


Style P585
Threaded Union
(P×P)

Style P575
Flange Adapter
(P×L)

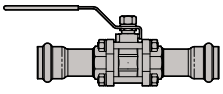
Style P566
Van Stone Flange Adapter
(P×L)

Style P577
Transition Nipple
(G×T)

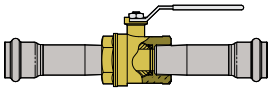


Style P574
Concentric Reducer
(P×P)

Style P560
End Cap



Style P569
Stainless Steel Ball Valve
(P×P shown)
(G×G and P×G also available)



Style P589
Brass Body Ball Valve
(P×P)

PFT510
Vic-Press® Tool,
pg. 107

Copper Systems

The Victaulic® original grooved copper system offers a full line of couplings, fittings and valves for systems rated up to 300 psi | 2065 kPa, as well as a line of roll grooving tools for on-site grooving. The Victaulic® grooved copper system is cold-formed, eliminating the need for soldering or brazing. The copper connection system joins 2–8" | 50–200 mm type K, L, M or DWV copper.

QuickVic® Rigid Coupling

STYLE 607

Download submittal 22.13 **for complete information**

- Installation-Ready™ design
- Designed for use on K, L, M or DWV copper tubing
- Sizes from 2–8" | 50–200 mm
- Pressures up to 300 psi | 2065 kPa
- Optional galvanized housing coating

Approvals/Listings:

Vic-Flange® Adapter for Copper

STYLE 641

Download submittal 22.03 for complete information

- Available for CTS, DIN, BS and AS copper systems
- Sizes from 2–6" | 50–150 mm
- Pressures up to 300 psi | 2065 kPa

Approvals/Listings:

Fittings for Copper

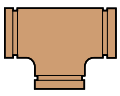
Download submittal 22.04 for complete information

- Full-flow, standard radius copper fittings are supplied as either roll grooved wrought copper or bronze fittings
- Designed for installation in copper systems using either a Style 607 rigid coupling or a Style 641 Vic-Flange® adapter
- Sizes from 2–8" | 50–200 mm
- Pressures up to 300 psi | 2065 kPa

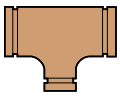
Approvals/Listings:

No. 610
90° Elbow

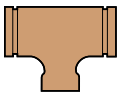
No. 611
45° Elbow



No. 620
Tee

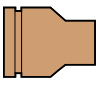


No. 625
Reducing Tee (Groove × Groove × Groove)



No. 626
Reducing Tee (Groove × Groove × Cup)

No. 650
Concentric Reducer (Groove × Groove)



No. 652
Concentric Reducer (Groove × Cup)

No. 660
Cap

Dielectric Waterway Fitting

STYLE 647

Download submittal 22.21 for complete information

- Used to join carbon steel or stainless steel pipe to copper tubing with one fitting
- Available in groove × groove, groove × thread or thread × thread
- Sizes from ½–4" | 15–100 mm
- Pressures up to 300 psi | 2065 kPa

Butterfly Valve for Copper

SERIES 608N

Download submittal 22.14 for complete information

- Joins quickly to copper tube by utilizing Style 607 Installation-Ready™ couplings
- Sizes from 2½–6" | 65–150 mm
- Pressures up to 300 psi | 2065 kPa

Mechanical-T® Bolted Branch Outlet and Cross Assemblies for Copper

STYLE 622

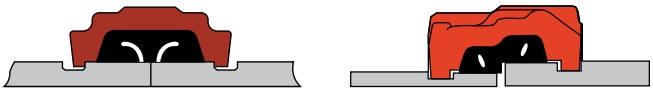
Download submittal 22.12 for complete information

- Provides a direct branch connection at any location on K, L and M copper tubing
- Sizes from 2½–4" | 65–100 mm
- Pressures up to 300 psi | 2065 kPa

Approvals/Listings:

AWWA Systems

The Victaulic® grooved AWWA piping system is the fastest and easiest method for joining AWWA size pipe with 75% fewer bolts than flanging. Victaulic® grooved piping components are available for use on AWWA C-606 class 53 pipe or heavier and have a pressure rating of up to 500 psi | 3450 kPa and a size range from 3–36" | 80–900 mm. FlushSeal® gaskets are specifically designed to seal on ductile iron pipe surfaces providing a triple seal to promote leak-free service for the life of the system.



Couplings

Adapters

Fittings

Valves

Coupling for AWWA Ductile Iron Pipe

STYLE 31

Download submittal 23.02 for complete information

- Provides a rigid or flexible joint on Class 53 or higher pipe
- Sizes from 3–36" | 80–900 mm
- Pressures up to 500 psi | 3450 kPa
- Optional coatings include orange enamel, coal tar epoxy, organic zinc primer and bituminous

Approvals/Listings:

Transition Coupling for IPS to AWWA

STYLE 307

Download submittal 23.03 for complete information

- Single transition for connecting grooved end IPS steel to grooved end AWWA ductile iron
- Designed for Class 53 or higher pipe
- Sizes from 3–12" | 80–300 mm
- Pressures up to 500 psi | 3450 kPa
- Optional coatings include galvanized, organic zinc primer and bituminous

Approvals/Listings:

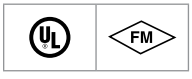
Vic-Flange® Adapter for AWWA

STYLE 341

Download submittal 23.04 for complete information

- Designed for direct connection of flanged components into a grooved cast or ductile system
- Designed for Class 53 or higher pipe
- Sizes from 3–24" | 80–600 mm
- Pressures up to 250 psi | 1725 kPa
- Optional coatings include coal tar epoxy, organic zinc primer and bituminous

Approvals/Listings:



AWWA — Elbows

Download submittal 23.05 for complete information

- AWWA size fittings are supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- Fittings conform to ANSI 21.10/AWWA C-110 for center-to-end dimensions and AWWA C-153 or ANSI 21.10/AWWA C-110 for wall thicknesses
- Available with a wide variety of coatings and linings
- Victaulic® can supply tapped fittings that meet ANSI B16.1 dimension locations; specify fitting size, tap location by letter on order
- Sizes from 3–36" | 80–900 mm
- Pressure rated up to 350 psi | 2400 kPa

No. 10-C
90° Elbow

No. 100-C
90° Long Radius Elbow

No. 11-C
45° Elbow

No. 12-C
22 ½° Elbow

No. 13-C
11 ¼° Elbow

No. 10-CR
90° Reducing Elbow

No. 100-CR
90° Long Radius Reducing Elbow

No. 10-CB
Base Elbow

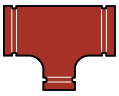
No. 100-CB
Long Radius Base Elbow

AWWA—Tees, Crosses, Wyes, Laterals

Download submittal 23.05 for complete information

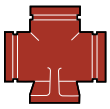
- AWWA size fittings are supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- Fittings conform to ANSI 21.10/AWWA C-110 for center-to-end dimensions and AWWA C-153 or ANSI 21.10/AWWA C-110 for wall thicknesses
- Available with a wide variety of coatings and linings
- Victaulic® can supply tapped fittings that meet ANSI B16.1 dimension locations; specify fitting size, tap location by letter on order
- Sizes from 3–36" | 80–900 mm
- Pressure rated up to 350 psi | 2400 kPa

No. 20-C
Tee



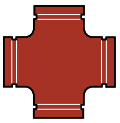
No. 25-C
Reducing Tee

No. 21-C
Bullhead Tee



No. 20-CB
Base Tee

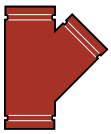
No. 25-CB
Reducing Base Tee



No. 35-C
Cross

No. 35-CR
Reducing Cross

No. 33-C
True Wye



No. 30-C
45° Lateral

No. 30-CR
45° Reducing Lateral

No. 60-C
Cap

AWWA — Reducers, Flares, Outlets

Download submittal 23.05 for complete information

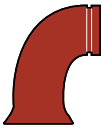
- AWWA size fittings are supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- Fittings conform to ANSI 21.10/AWWA C-110 for center-to-end dimensions and AWWA C-153 or ANSI 21.10/AWWA C-110 for wall thicknesses
- Available with a wide variety of coatings and linings
- Victaulic® can supply tapped fittings that meet ANSI B16.1 dimension locations; specify fitting size, tap location by letter on order
- Sizes from 3–36" | 80–900 mm
- Pressure rated up to 350 psi | 2400 kPa

No. 50-C
Concentric Reducer

No. 51-C
Eccentric Reducer

No. 10-CF
90° Flare

No. 43-CF
Straight Flare



No. 100-CF
90° Long Radius Flare

No. 20-CS
Tee Side Outlet

No. 10-CS
90° Side Outlet

Check Valve for AWWA

SERIES 317

Download submittal 23.09 for complete information

- Conforms to AWWA C-508 requirements for water and wastewater treatment services
- Sizes from 3–12" | 80–300 mm
- Pressures up to 175 psi | 1200 kPa

Vic-Plug® Valve for AWWA

SERIES 365

Download submittal 23.06 for complete information

- Conforms to AWWA C-509 standard for end-to-end dimensions
- Round port provides better flow and allows easier passage of cleaning pigs
- Sizes from 3–12" | 80–300 mm
- Pressures up to 175 psi | 1200 kPa

Hydronic Balancing Solutions

Victaulic® provides balancing products that allow contractors to improve productivity on the job site and engineers to accurately control building temperatures while optimizing energy efficiency. Balancing valves enhance comfort and cut energy costs through precise control of building temperature. Victaulic® KOIL-KIT™ Coil Packs provide a customizable coil solution delivered to the job site as a pre-connected unit for faster and easier installation.

Manual Balancing Valves

Automatic Balancing Valves

Balancing and Control Valves

KOIL-KIT™ **page**

Differential Pressure Controllers **page**

Balancing Instruments **page**

Manual Balancing Valve—Solder End

TA SERIES 786

Download submittal 08.16 for complete information

- "Y" patterned globe valve
- Digital hand wheel with 4 turns to open, 1440 degrees of rotation, and memory stop
- Sizes from ½–2" | 15–50 mm
- Pressures up to 300 psi | 2065 kPa

Manual Balancing Valve—Female Threaded End

TA SERIES 787

Download submittal 08.16 for complete information

- "Y" patterned globe valve
- Digital hand wheel with 4 turns to open, 1440 degrees of rotation, and memory stop
- Sizes from ½–2" | 15–50 mm
- Pressures up to 300 psi | 2065 kPa

Manual Balancing Valve—Male × Female

SERIES 78K

Download submittal 08.16 for complete information

- "Y" patterned globe valve with a union adapter
- Digital hand wheel with 4 defined points and unlimited balancing positions
- Sizes from ½–2" | 15–50 mm
- Pressures up to 300 psi | 2065 kPa
- Optional tailpieces available for reductions

Manual Balancing Valve—Flanged End

TA SERIES 788

Download submittal 08.16 for complete information

- "Y" patterned globe valve
- Digital hand wheel with 8, 12, or 16 turns to open (depending on size), 1440 degrees of rotation, and memory stop
- Class 150 RF, ASME/ANSI B16.42
- Sizes from 2½–16" | 65–400 mm
- Pressures up to 250 psi | 1725 kPa

Manual Balancing Valve—Grooved End

TA SERIES 789

Download submittal 08.16 for complete information

- "Y" patterned globe valve
- Digital hand wheel with 8, 12, or 16 turns to open (depending on size), 1440 degrees of rotation, and memory stop
- Sizes from 2½–12" | 65–300 mm
- Pressures up to 350 psi | 2400 kPa

Automatic Balancing Valve—Female Threaded End

SERIES 76T

Download submittal 08.34 for complete information

- Contains a Victaulic® automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Sizes ½–2" | 15–50 mm, pressure class 365 psi | PN25
- Differential pressure range dependant upon cartridge selected
- Rated from -4°F to 250°F | -20°C to 120°C
- DZR Brass body with an EPDM O-Ring and NPT thread
- Available with optional sweat adapters

Automatic Balancing Valve with Ball Valve Kit—Female Threaded End

SERIES 76B

Download submittal 08.34 for complete information

- Contains a Victaulic® automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Sizes ½–2" | 15–50 mm, pressure class 365 psi | PN25
- Differential pressure range dependant upon cartridge selected
- Rated from -4°F to 250°F | -20°C to 120°C
- DZR Brass body with an EPDM O-Ring and NPT thread

Automatic Balancing Valve—Male × Female

SERIES 76K

Download submittal 08.34 for complete information

- Contains a Victaulic® automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Sizes ½–2" | 15–50 mm, pressure class 365 psi | PN25
- Differential pressure range dependant upon cartridge selected
- Rated from -4°F to 250°F | -20°C to 120°C
- DZR Brass body with an EPDM O-Ring and NPT thread
- Available with optional union and sweat adapter

Automatic Balancing Valve with Ball Valve Kit — Male × Female

SERIES 76V

Download submittal 08.34 for complete information

- Contains a Victaulic® automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Sizes ½–2" | 15–50 mm, pressure class 365 psi | PN25
- Differential pressure range dependant upon cartridge selected
- Rated from -4°F to 250°F | -20°C to 120°C
- DZR Brass body with an EPDM O-Ring and NPT thread

Automatic Balancing Valve — Grooved End

SERIES 76G

Download submittal 08.34 for complete information

- Size 2½–6" | 65–150 mm
- 365 psi | 2516 kPa
- With integrated PT ports and orifice plate to verify flow

ICSS Low Lead Balancing Valve

TA SERIES 76X

Download submittal 08.51 for complete information

- NSF Certified in accordance with ANSI/NSF 61 to 180°F | 82°C and ANSI/NSF 372
- Used in drinking water applications
- Sizes ½–1" | 15–25 mm
- Differential pressures 2–32 psi | 13–220 kPa and 5–60 psi | 34–414 kPa

Terminal Balancing and Control Valve—Female × Female

TA SERIES TC

Download submittal 08.38 for complete information

- Designed for on/off control
- Ensures accurate hydronic control and optimum throughput over a long lifetime
- Sizes ½–1" | 15–25 mm
- Pressures up to 230 psi | 1585 kPa
- For sizes 1¼–6" | 32–150 mm, see pg. 70 for TA Series 7FC

Terminal Balancing Valve for Modulating Control—Female × Female

TA SERIES TCM

Download submittal 08.38 for complete information

- Designed for modulating control
- Ensures accurate hydronic control and optimum throughput over a long lifetime
- Sizes ½–¾" | 15–20 mm
- Pressures up to 230 psi | 1585 kPa

Pressure Independent Modulating Balancing and Control Valve (PIBCV)—Female × Female

TA SERIES TCP

Download submittal 08.39 **for complete information**

- Pressure independent, balancing and control valve
- Ensures accurate hydronic control and optimum throughput over a long lifetime
- Sizes ½–1" | 15–25 mm
- Pressures up to 230 psi | 1585 kPa
- For sizes 1¼–6" | 32–150 mm, see pg. 70 for TA Series 7FP

Combined Balancing and Control Valve—Thread × Thread

TA SERIES 7FC

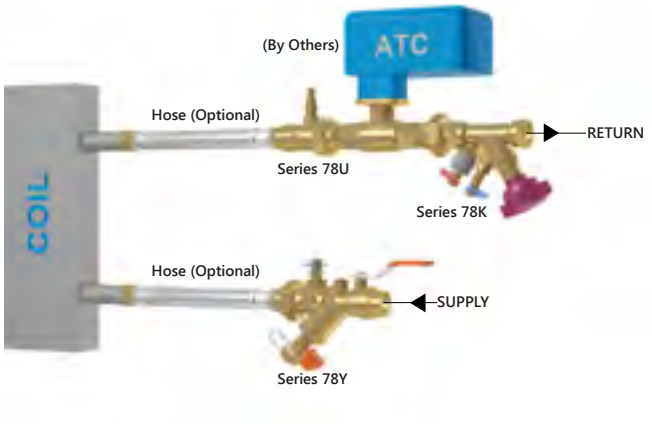
Download submittal 08.52 **for complete information**

- Measures flow, differential pressure, temperature and differential pressure
- EQM characteristics (Equal Percentage Modified)
- 1¼–2" | 32–50 mm Female NPT Threads 230 psi | 1585 kPa
- 2½–6" | 65–150 mm ANSI Class 150 Flange 365 psi | 2516 kPa
- For sizes ½–1" | 15–25 mm, see pg. 69 for TA Series TC

Pressure Independent Combined Balancing and Control Valve—Thread × Thread TA SERIES 7FP

Download submittal 08.53 **for complete information**

- Pressure independent, balancing and control valve
- Measures flow, differential pressure, temperature and differential pressure
- EQM characteristics (Equal Percentage Modified)
- 1¼–2" | 32–50 mm Female NPT Threads 230 psi | 1585 kPa
- 2½–6" | 65–150 mm ANSI Class 150 Flange 365 psi | 2516 kPa
- For sizes ½–1" | 15–25 mm, see TA Series TCP

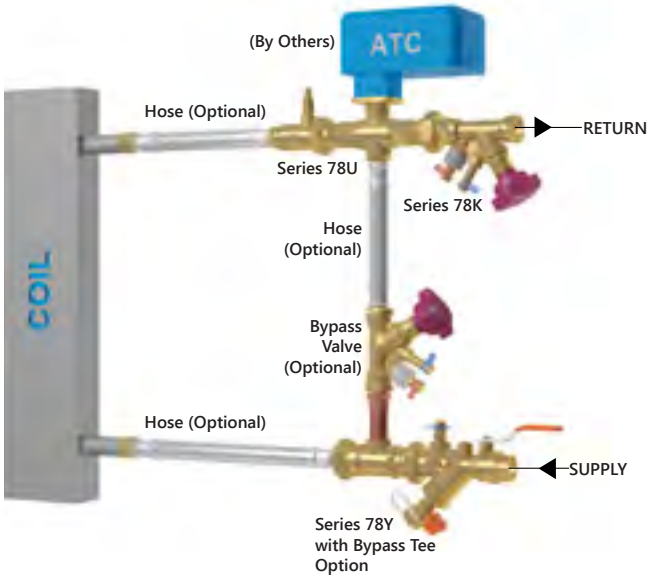


KOIL-KIT™ Coil Pack

SERIES 799 and SERIES 79V

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- The Series 799 consists of the following components: Series 78Y Y-strainer/ball valve or Series 78T ball valve union combination, two coil hoses, a Series 78U union port fitting, and a balancing valve
- The Series 79V includes the option to have the ATC valve of your choice assembled and shipped with the Victaulic® KOIL-KIT™ coil pack
- Suitable for a variety of hot and cold water applications including treated and untreated water systems



KOIL-KIT™ Coil Pack with ATC and Bypass Options

SERIES 79B and SERIES 79A

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- The Series 79B consists of the following components in addition to the bypass option: Series 78Y Y-strainer/ball valve or Series 78T ball valve union combination, two coil hoses, a Series 78U union port fitting, and a balancing valve
- The Series 79A includes option to have the ATC valve of your choice assembled and shipped with the Victaulic® KOIL-KIT™ coil pack
- Suitable for a variety of hot and cold water applications including treated and untreated water systems

KOIL-KIT™ Coil Pack for Air Handling Units

SERIES 79C and SERIES 79D

Download submittal 08.35 for complete information

- Sizes 2½–6" | 65–300 mm
- The Series 79C consists of the following components: Series 732 strainer with a blow down drain valve and a balancing valve
- The Series 79D includes the option of adding a Style 925 drain/air vent assembly included with the Victaulic® KOIL-KIT™ coil pack
- The Style 925 is provided with a Style 107 QuickVic® rigid coupling which is used for connecting the Style 925 to the balancing valve

KOIL-KIT™ Coil Hose

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- 375 psi | 2585 kPa maximum CWP (varies by size)
- Suitable for operating temperatures up to 230°F | 110°C
- Stainless steel braided hose and a synthetic polymer core with stainless ferrules; available as male by female swivel and male by male swivel
- Available lengths: 12" | 300 mm; 24" | 600 mm; 36" | 900 mm.

KOIL-KIT™ Y-Strainer/Ball Valve Combination

SERIES 78Y

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- 400 psi | 2758 kPa maximum CWP
- Suitable for operating temperatures up to 230°F | 110°C
- Available as sweat × sweat; sweat × female; sweat × male; female × sweat; female × female; female × male
- DZR brass body consisting of a full port valve and strainer with flow measuring ports

KOIL-KIT™ Ball Valve/Union Combination

SERIES 78T

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- 400 psi | 2758 kPa maximum CWP
- Suitable for operating temperatures up to 230°F | 110°C
- Available as sweat × sweat; sweat × female; sweat × male; female × sweat; female × female; female × male
- A full port valve and strainer with flow measuring ports

KOIL-KIT™ Union Port Fitting

SERIES 78U

Download submittal 08.30 for complete information

- Sizes ½–2" | 15–50 mm
- 400 psi | 2758 kPa maximum CWP
- Suitable for operating temperatures up to 230°F | 110°C
- Available as sweat × sweat; sweat × female; sweat × male; female × sweat; female × female; female × male

Differential Pressure Controller—Female Threaded End

TA SERIES 793

Download submittal 08.29 for complete information

- Features Ametal®* body providing dielectric protection
- Sizes ½–2" | 15–50 mm
- Capable of stabilizing differential pressure ranges of 1.5–8.7 psi | 10–60 kPa, 2.9–11.6 psi | 20–80 kPa and 5.8–23.3 psi | 40–160 kPa depending on the controller series, size and spring option

* AMETAL® is a registered material to TA Hydronics

Differential Pressure Controller—Flanged End

TA SERIES 794

Download submittal 08.29 for complete information

- Features a ductile iron body
- Sizes 2½–4" | 65–100 mm
- Capable of stabilizing differential pressure ranges of 1.5–8.7 psi | 10–60 kPa, 2.9–11.6 psi | 20–80 kPa and 5.8–23.3 psi | 40–160 kPa depending on the controller series, size and spring option

Link Differential Pressure Sensor

TA SERIES 736

Download submittal 08.16 for complete information

- Provides connection between a building's heating and cooling and building's monitoring system (BMS)
- Continuously measures the flow and differential pressure through and across the Tour & Andersson balancing valves
- Measurement probes provided for direct connection to the measurement points on all TA Series 786, 787, 788, and 789 balancing valves

TA Select Computer Program

Download submittal 08.16 for complete information

- The software will advise the correct combination of valve, handwheel position and pipe size to correctly balance the system
- The program will also size the pipe, generate C_v | K_v values for the ATC valves and give pre-set information for all TA valves on the project

CMI Pressure Differential Meter

TA SERIES 73M

Download submittal 08.16 for complete information

- A handheld instrument for measuring differential pressure, temperature and flow through balancing valves in hydronic systems
- Consists of a sensor unit and an instrument unit programmed with the TA valve characteristics, which makes it possible to take a direct reading of flow and differential pressure

TA Scope

TA SERIES 734

Download submittal 08.16 for complete information

- A wireless, handheld device for the swift and accurate measurement of differential pressure, flow, temperature and power
- An independent sensor communicates with the TA Scope to deliver data quickly, thereby enabling contractors to balance a system, troubleshoot hydronic problems and log system performance

HDPE Systems

The Victaulic® HDPE system provides easy incorporation of standard IPS fittings and valves directly to HDPE pipe using the HDPE-to-grooved transition. The Victaulic® system permits more accurate estimates and assures on-time modification and future retrofit. Unique mechanical features permit a wide variety of applications for most HDPE piping systems. It combines the advantages of fast installation, design integrity and reliable operation.

Couplings **page**

Adapters **page**

Plain End Coupling for HDPE Pipe

STYLE 995N

Download submittal 19.02 for complete information

- Coupling teeth create 360° grip of HDPE pipe for secure seal
- Sizes from 2–20" | 50–500 mm
- Pressure rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

Approvals/Listings:

FM

HDPE to Steel Transition Coupling

STYLE 997

Download submittal 19.03 for complete information

- Fastest way to join HDPE to IPS pipe
- Sizes from 2–12" | 50–300 mm
- Pressure rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

Approvals/Listings:

FM

Vic-Flange® Plain End Adapter for HDPE Pipe

STYLE 994

Download submittal 19.04 for complete information

- Permits direct connection of ANSI Class 125 and 150 flange components into HDPE systems
- Sizes from 4–8" | 100–200 mm
- Pressure rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

Approvals/Listings:

FM

Aquamine® PVC System

Victaulic® Aquamine® Reusable PVC piping system offers a complete line of high impact, resistant, reusable pipe, fittings, valves and specialty items. This product line is ideal for a wide variety of water services due to its high impact resistant PVC pipe and synthetic rubber o-rings that provide chemical resistance. The spline assembly used in Victaulic® Aquamine® PVC piping uniquely engages into the grooves of both the coupling and the pipe. The thickened pipe end provides joint reinforcement and security.

Aquamine® Plain End Coupling

SERIES 2970

Download submittal 50.01 **for complete information**

- Repair coupling for PVC systems; no pipe preparation required
- Sizes from 2–8" | 50–200 mm
- Pressures up to 350 psi | 2400 kPa

Aquamine® Transition Coupling for PVC to HDPE

SERIES 2971

Download submittal 50.05 for complete information

- Provides convenient transition from PVC to HDPE without need for special adapters
- Sizes from 2–8" | 50–200 mm
- Pressures up to 350 psi | 2400 kPa

Aquamine® Transition Coupling for PVC to Groove

SERIES 2972

Download submittal 50.06 for complete information

- Provides convenient transition from PVC to grooved steel without need for special adapters
- Sizes from 2–8" | 50–200 mm
- Pressures up to 350 psi | 2400 kPa

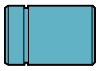
Aquamine® Fittings

Download submittal 50.01 for complete information

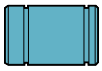
- Variety of straight and reducing fittings including:
- Sizes from 2–12" | 50–300 mm
- Pressures up to 350 psi | 2400 kPa

Series 2904
Coupling
(ALF × ALF)

Series 2905
Coupling
(ALF × SCF)



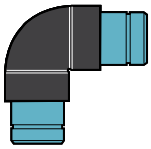
Series 2906
Coupling
(ALM × PEM)



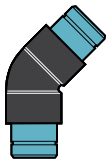
Series 2907
Coupling
(ALM × VIC)

Series 2908
Coupling
(ALM × NPT-M)

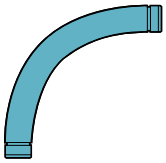
Series 2909
Coupling
(PEM × NPT-M)



Series 2910
90° Elbow
(ALM × ALM)

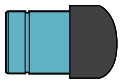


Series 2912
45° Long
(ALM × ALM)

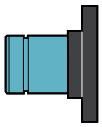


Series 2913
90° Sweep
(ALM × ALM)

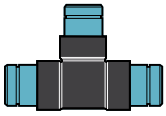
Series 2914
45° Sweep
(ALM × ALM)



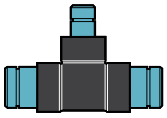
Series 2915
End Cap
(ALM)



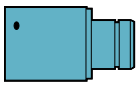
Series 2916
Transition
Nipple
(ALM × FLG)



Series 2917
Tee
(ALM × ALM × ALM)



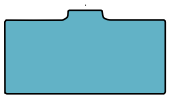
Series 2918
Reducing Tee
(ALM × ALM × ALM)



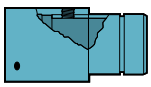
Series 2919
Reducer
(ALF × ALM)

Series 2920
Reducer
(ALM × SCF)

Series 2930
Outlet Coupling
(ALF × ALF × NPT-F)



Series 2937 (1" | 25 mm Outlet)
Series 2938 (1½" | 32 mm Outlet)
Series 2939 (2" | 50 mm Outlet)
Formed Outlet Coupling
(NPT-F × NPT-F × NPT-F)



Series 2940
Outlet Fitting
(ALM × ALM × NPT-F)

Connection Key

ALF Female End
ALM Male End
FLG Flange End
SCF Solvent Cement Female End
PEM Plain End Male
VIC Victaulic® Standard Groove End
NPT-F National Pipe Taper Thread Female
NPT-M National Pipe Taper Thread Male

Aquamine® PVC Pipe

SERIES 2900

Download submittal 50.01 for complete information

- PVC 1120 Type 1, grade 1 (class 12454) conforming to ASTM D-1784 and ASTM D-2241
- Sizes from 2 – 12" | 50 – 300 mm
- Pressures up to 350 psi | 2400 kPa
- For Aquamine® grooving tools, see pg. 104

Aquamine® Ball Valve

SERIES 2921

Download submittal 50.01 for complete information

- Available with a lever handle or a square nut
- Sizes from 2–6" | 50–150 mm
- Pressures up to 100 psi | 700 kPa

Aquamine® Butterfly Valve

SERIES 2950

Download submittal 50.01 for complete information

- Provided with a lever handle for easy on-off operation
- Sizes from 2–6" | 50–150 mm
- Pressures up to 250 psi | 1725 kPa

Grooved PVC System

Before the Victaulic® groove system, joining PVC pipe was time consuming and difficult. Weather conditions and curing times delayed the completion of glued or solvent cement joined PVC systems.

Victaulic® groove products assemble PVC pipe joints in a matter of minutes. A groove can be roll or cut grooved into the PVC pipe. Mechanical couplings require just two bolts and nuts and are used to join the pipe ends while also providing a union at every joint.

The following Victaulic® products may also be used on PVC pipe. Refer to the individual product submittals for additional information.

- Style 75 Flexible Coupling
- Style 77 Flexible Coupling
- Style 78 Snap Joint Coupling
- Style 791 Boltless Coupling
- Style 741 Flange Adapter
- Style 743 Flange Adapter
- Style HP-70 Rigid Coupling

Composite Flexible Coupling

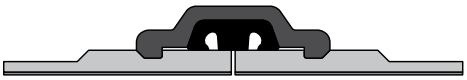
STYLE 171

Download submittal 06.22 **for complete information**

- For use where corrosive conditions exist
- Designed for use on reverse osmosis systems
- For use on roll/cut grooved PVC
- For stainless steel and FRP applications, contact Victaulic®
- Sizes from 1½–4" | 40–100 mm
- Pressures up to 150 psi | 1034 kPa

The Victaulic® fiberglass-reinforced plastic piping solution offers more efficient installations and is ideal for most applications that currently use butt and wrap to join FRP pipe. The Style 296-A is rated for pressures up to 150 psi | 1035 kPa and the FlushSeal® gasket ensures a smooth flow path.

The Style 296-A is used on a wide variety of applications. Pipe ends are built-up to accommodate AGS grooves that are used to engage the coupling on the pipe.



Coupling for Fiberglass Reinforced Plastic Pipe

STYLE 296-A

Download submittal 90.01 for complete information

- Designed to create a rigid pipe joint without any special tools while maintaining existing support requirements
- Can be installed in any weather
- No curing time required
- Sizes from 1 – 12" | 25 – 300 mm
- Pressures up to 150 psi | 1035 kPa

Pipe Preparation Tools

Victaulic® is the world's leading developer of pipe preparation tools. These tools simplify pipe end preparation and are available for pipe sizes ranging from ½" | 15 mm up to 72" | 1825 mm.

Victaulic® tools are available for manual use, field use and fab shop environments. As with our pipe joining technologies, Victaulic® tools make pipe end preparation faster, easier and safer.

Additionally, Victaulic® offers plastic groovers, hole cutting, pipe cut-off, pressing tools, VBSP closure tools and a variety of accessories.

Field Portable Roll Grooving Tools

Field Fabrication Roll Grooving Tools

Plant/Shop Fabrication Roll Grooving Tools

Field Manual and Motorized Cut Grooving Tools

Plastic Groovers

Field Portable Roll Grooving Tools

VE12 GROOVE IN-PLACE

Download submittal 24.01 for complete information

- Tool is manually operated using the supplied ratchet handle
- Enhanced tracking rolls allow bi-directional grooving
- Power Requirements: None
- Weight: 17 lbs. | 8 kg

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule				
		¾ 20	1 25	1¼ 32	1½ 40	2 50
VE12	Steel	5 – 10	5 – 40			
	Stainless		40S			
	Aluminum [2]	5 – 10	5 – 40			
	PVC Plastic		40			
VE12SS	Lt. Wall SS	5S – 10S				

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] 6061-T4 or 6063-T4 alloy must be used.

Field Portable Roll Grooving Tools

VE26 GROOVE IN-PLACE

Download submittal 24.01 for complete information

- Tool is manually operated using the supplied ratchet handle
- Enhanced tracking rolls allow bi-directional grooving
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 power drive or VPD752
- Power Requirements: None
- Weight: 22 lbs. | 10 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule					
		2 50	2½ 60	3 80	4 100	5 125	6 150
VE26S	Steel	5 – 40		5 – 10			
	Stainless	40S Only					
VE26C	Copper	K, L, M and DWV					
VE26P	Aluminum [2]	5 – 40		5 – 10			
	PVC Plastic	40					
VE26SS	Lt. Wall SS	5S – 10S					

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] 6061-T4 or 6063-T4 alloy must be used.

Field Portable Roll Grooving Tools

VE26/46 POWER DRIVE KIT

Download submittal 24.01 for complete information

- Available to allow both tools to be directly mounted to either a Victaulic® VPD752 or Ridgid* 300 Power Drive
- Newer tools with serial numbers ending in “C” are compatible with the Power Drive Kit; tools which do not contain the “C” suffix will require retrofit to accept the Power Drive Kit; contact Victaulic® for details
- Weight: 7 lbs. | 3 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Field Portable Roll Grooving Tools

VE46 GROOVE IN-PLACE

Download submittal 24.01 for complete information

- Tool is manually operated using the supplied ratchet handle
- Enhanced tracking rolls allow bi-directional grooving and helps to hold the tool on the pipe end during the roll grooving process
- Optional power drive adapter kit available to alternately groove pipe using a Ridgid* 300 Power Drive or VPD752
- Power Requirements: None
- Weight: 28 lbs. | 13 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule				
Model	**Pipe Material**	3½ 90	4 100	4½ 120	5 125	6 150
VE46S	Steel	5 – 40				
	Stainless	40S Only				
VE46P	Aluminum [2]	5 – 40				
	PVC Plastic	40				

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] 6061-T4 or 6063-T4 alloy must be used.

Field Portable Roll Grooving Tools

VE226 PORTABLE GROOVER

Download submittal 24.01 for complete information

- Tool is operated using a standard 3/8"/9.5 mm square ratchet drive (not included)
- Drive Requirements: Mounts to Victaulic® VPD752 or Ridgid* 300 Power Drive; optional bases available
- Weight: 37 lbs. | 17 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule											
		¾ 20	1 25	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	4½ 120	5 125	6 150
VE226S	Steel			5 – 40				5 – 10					
	Stainless			40S Only									
VE226B	Steel	5 – 40											
	Stainless	40S Only											
	Aluminum [2]	5 – 40											
	PVC Plastic	40											
VE226M	Steel					5 – 40					5 – 10		
	Stainless					40S Only							
VE226C	Copper					K, L, M and DWV							
VE226BSS	Lt. Wall SS	5S – 10S											
VE226MSS	Lt. Wall SS					5S – 10S							
VE226P	Aluminum [2]			5 – 40							5 – 10		
	PVC Plastic			40									

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] 6061-T4 or 6063-T4 alloy must be used.

Field Portable Roll Grooving Tools

VE226 POWER DRIVE KIT

Download submittal 24.01 for complete information

- Kit for connecting a VE226 roll grooving tool to a Ridgid* 700 Power Drive
- Weight: 75 lbs. | 34 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Field Fabrication Roll Grooving Tools

VE106/VE107 GROOVE-N-GO

Download submittal 24.01 for complete information

- Mobile light-duty roll grooving tool with an integral motor/drive unit mounted to portable hand truck
- Reduces pipe handling by allowing the tool to be wheeled directly to the pipe preparation site
- 3/8" | 9.5 mm square ratchet drive for operation (standard)
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Completely self-contained unit with an integral motor, safety foot switch and power plug
- 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

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule								
Model	**Pipe Material**	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150
VE106/VE107	Steel [2,3]	5 – 40								
	Stainless [2]	40S								
	Lt. Wall SS [4]	5S – 10S								
	Copper [5]			K, L, M and DWV						

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] Use grooving rolls marked with the prefix RR.

Field Fabrication Roll Grooving Tools

VE272SFS

Download submittal 24.01 for complete information

- Hand pump operation with a unique pivot arm design reduces handle effort
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Power Requirements: Victaulic® VPD752 or Ridgid* 300 Power Drive
- Weight: 184 lbs. | 84 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule													
		¾ 20	1 25	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150	8 200	10 250	12 300
VE272SFS	Steel [2,3]	5 – 40												5 – 20	
	Stainless [2]	40S												.250	
	Lt. Wall SS [4]	5S – 10S													
	Aluminum [5]					5 – 40								5 – 20	
	PVC Plastic [6]					40									
	Copper [7]					K, L, M and DWV									

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] Use grooving rolls marked with the prefix RR.

Field Fabrication Roll Grooving Tools

VE270FSD/VE271FSD

Download submittal 24.01 for complete information

- 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
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- 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

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule													
Model	**Pipe Material**	¾ 20	1 25	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150	8 200	10 250	12 300
VE270FSD/ VE271FSD	Steel [2,3]	5 – 40												5 – 20	
	Stainless [2]	40S												.250	
	Lt. Wall SS [4]	5S – 10S													
	Aluminum [5]					5 – 40								5 – 20	
	PVC Plastic [6]					40									
	Copper [7]					K, L, M and DWV									

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] Use grooving rolls marked with the prefix RR.

Field Fabrication Roll Grooving Tools

VE416FS

Download submittal 24.01 for complete information

- VE416FS is designed for field grooving of OGS pipe and should not be used for continuous field production grooving; For field production grooving capabilities, use a VE450FSD tool, see pg. 95
- Equipped with a pipe stabilizer for 6 – 12" | 50 – 300 mm pipe sizes to control pipe sway
- Groove depth adjuster allows for easy adjustment for initial groove diameter
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Power Requirements: Victaulic® VPD752 or Ridgid* 300 Power Drive
- Weight: 240 lbs. | 109 kg

* Ridgid is a registered trademark of the Ridge Tool Company

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule								
		OGS								
Model	**Pipe Material**	2 50	2½ 60	3 80	4 100	5 125	6 150	8 200	10 250	12 300
VE416FS	Steel [2,3]	5 – 40								10 – STD
	Stainless [2]	40S								STD
	Lt. Wall SS [4]	5S – 10S								
	Aluminum [5,6]	5 – 40								5 – STD
	PVC Plastic [6]	40								
	Copper [7]	K, L, M and DWV								

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] Use grooving rolls marked with the prefix RR.

Field Fabrication Roll Grooving Tools

VE416FSD/VE417FSD

Download submittal 24.01 for complete information

- VE416FSD/VE417FSD is designed for field grooving of OGS pipe and should not be used for continuous field production grooving; For field production grooving capabilities, use a VE450FSD tool, see pg. 95
- Groove depth adjuster allows for easy adjustment for initial groove diameter
- Completely self-contained units with integral gear motors, safety foot switch and power cord/plug
- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Power Requirements: VE416FSD is provided with 110 volt, 15 amp for integral gear motor; VE417FSD is provided with 220 volt, 8 amp service
- Weight: 340 lbs. | 154 kg

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule								
		OGS								
Model	Pipe Material	2 50	2½ 60	3 80	4 100	5 125	6 150	8 200	10 250	12 300
VE416FSD/ VE417FSD	Steel [2,3]	5 – 40								10 – STD
	Stainless [2]	40S								STD
	Lt. Wall SS [4]	5S – 10S								
	Aluminum [5,6]	5 – 40								5 – STD
	PVC Plastic [6]	40								
	Copper [7]	K, L, M and DWV								

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] Use grooving rolls marked with the prefix RR.

Field Fabrication Roll Grooving Tools

VE450FSD

Download submittal 24.01 for complete information

- The VE450FSD is designed for field production grooving and not continuous fabrication shop production grooving
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process, and quickly change upper roll design
- Lifting point to move the tool using a crane
- Frame can accept most forklifts
- Onboard storage for tool accessories
- Power Requirements: Self-contained unit with two 220 volt, single phase 50/60 hertz, 20 amp integral gear motors to handle heavier loads, safety foot switch and power cord/plug
- Weight: 825 lbs. | 374 kg

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule														
		OGS									AGS					
		4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	18 450	14 350	16 400	18 450	20 500	22 550	24 600
VE450FSD	Steel [2,3]	5 – 40					5 – STD				5 – STD					
	Stainless [4]	40S					STD				STD					
	Lt. Wall SS [5]	5S – 10S									10S					
	Aluminum [6,7]	5 – 40					STD									
	PVC Plastic [7]	40														

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R for both OGS and AGS.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use standard grooving rolls marked with the prefix R for OGS and RW for AGS.

[5] Use grooving rolls marked with the prefix RX for OGS and RWX for AGS. (Special RWX Rolls are available for grooving true Sch. 10 (0.250 | 6.4 mm). These rolls are not interchangeable with roll sets from other tool models. Contact Victaulic® for details.

[6] 6061-T4 or 6063-T4 alloy must be used.

[7] Use grooving rolls marked with the prefix RP.

Plant/Shop Fabrication Roll Grooving Tools

VE268

Download submittal 24.01 for complete information

- 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
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Power Requirements: 220/440 volt, 3-phase, 60 hertz standard; the tool can also be supplied in various voltages, contact Victaulic® for details
- 3-phase requires tool power to be hard wired by a local certified electrician
- Weight: 735 lbs. | 333 kg

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule													
Model	**Pipe Material**	¾ 20	1 25	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150	8 200	10 250	12 300
VE268	Steel [2,3]	5 – 40												5 – 20	
	Stainless [2]	40S													
	Lt. Wall SS [4]	5S – 10S													
	Aluminum [5,6]					5 – 40								5 – 20	
	PVC Plastic [6]					40									
	Copper [7]					K, L, M and DWV									

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] Use grooving rolls marked with the prefix RR.

Plant/Shop Fabrication Roll Grooving Tools

VE414MC

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Roll changes are quick and easy, without removing shafts
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Power Requirements: 220/440 volt, 3-phase, 60 hertz standard; the tool can also be supplied in various voltages, contact Victaulic® for details
- 3-phase requires tool power to be hard wired by a local certified electrician
- Weight: 735 lbs. | 333 kg

Tool Ratings — Maximum Capacity [1]

Model	Pipe Material	Pipe Size (in | mm)/Schedule										
		OGS									AGS	
		2 50	2½ 60	3 80	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400
VE414MC	Steel [2,3]	5 – 40								10 – STD	10 – STD	
	Stainless [4]	40S									STD	
	Lt. Wall SS [5]	5S – 10S									5S – 10S	
	Aluminum [6,7]	5 – 40								5 – STD		
	PVC Plastic [7]	40										
	Copper [8]	K, L, M and DWV										

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R for both OGS and AGS.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use standard grooving rolls marked with the prefix R for OGS and RW for AGS.

[5] Use grooving rolls marked with the prefix RX for OGS and RWX for AGS (Special RWX Rolls are available for grooving true Sch. 10 (0.250 | 6.4 mm).

[6] 6061-T4 or 6063-T4 alloy must be used.

[7] Use grooving rolls marked with the prefix RP.

[8] Use grooving rolls marked with the prefix RR.

Plant/Shop Fabrication Roll Grooving Tools

VE460

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Support bases are required to groove pipe sizes 26" | 650 mm and larger. Each support base is 12" | 305 mm in height and corresponds with a range of allowable pipe sizes it can groove
- Power Requirements: 220/440 volt, 3-phase, 60 hertz standard; the tool can also be supplied in various voltages, contact Victaulic® for details
- 3-phase requires tool power to be hard wired by a local certified electrician
- Weight: 1500 lbs. | 680 kg

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule											
		OGS											
Model	Pipe Material	4 100	5 125	6 150	8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600
VE460	Steel [2,3]	5 – 80				5 – XS							
	Stainless [2]	40S					STD						
	Lt. Wall SS [4]	5S – 10S						5S – 10S, TRUE 10					
	Aluminum [5,6]	5 – 40											
	PVC Plastic [6]	40											

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule																		
		AGS																		
Model	Pipe Material	14 350	16 400	18 450	20 500	22 550	24 600	26 650	28 700	30 750	32 800	34 850	36 900	38 950	40 1000	42 1050	48 1200	50 1250	60 1500
VE460	Steel [2,3]	10 – XS						.375 – .500 [7]											
	Stainless [2]	STD																	
	Lt. Wall SS [4]	5S – 10S, TRUE 10																	

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] Use standard grooving rolls marked with the prefix R for OGS and RW for AGS.

[3] EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.

[4] Use grooving rolls marked with the prefix RX for OGS and RWX for AGS. (Special RWX Rolls are available for grooving true Sch. 10 (0.250 | 6.4 mm). These rolls are not interchangeable with roll sets from other tool models. Contact Victaulic® for details.

[5] 6061-T4 or 6063-T4 alloy must be used.

[6] Use grooving rolls marked with the prefix RP.

[7] API-5L Grade B pipe.

Plant/Shop Fabrication Roll Grooving Tools

VE872

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Support bases are required to groove 30" | 762 mm and larger pipe sizes; each support base is 16" | 406 mm in height and corresponds with a range of allowable pipe sizes it can groove
- Power Requirements: 220/440 volt, 3-phase, 60 hertz standard; the tool can also be supplied in various voltages, contact Victaulic® for details
- 3-phase requires tool power to be hard wired by a local certified electrician
- Weight: 1900 lbs. | 862 kg

Tool Ratings — Maximum Capacity

Model	Pipe Material	Pipe Size (in | mm)/Schedule																								
		8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600	26 650	28 700	30 750	32 800	34 850	36 900	38 950	40 1000	42 1050	48 1200	50 1250	54 1350	56 1400	60 1500	62 1550	72 1800
VE872	Carbon Steel	Sch. 40 .500		.375/9.5 mm to .500/12.7 mm[1]																						
	Carbon Steel			.562/.625 wall Grade B Only																						

[1] Physical properties shall be in accordance with API specification 5L, Grades B, X42, X46, X52, X56 or X60, download publication 25.09. For physical properties not listed contact Victaulic® for details.

Field Manual Cut Grooving Tools

VG28GD (GEAR DRIVE)
VG28GD-ABR (ABRASION)
VDG26GD (DOUBLE GROOVE)

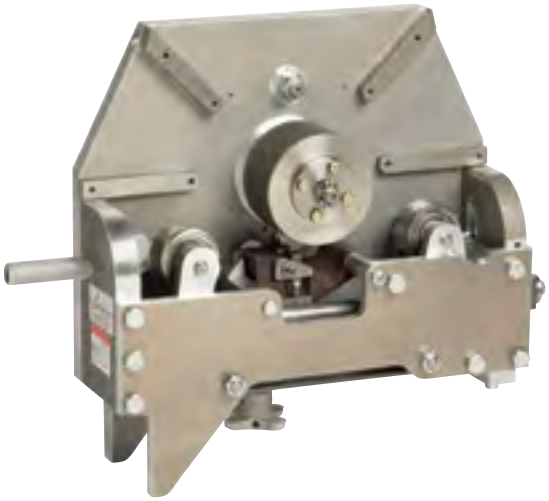
Download submittal 24.01 for complete information

- VG28GD will produce a single OGS cut groove for unlined piping systems
- VG28GD-ABR will produce a single OGS cut groove that allows for lining of the pipe for abrasive services
- VDG26GD will produce a double OGS cut groove for high pressure systems in conjunction with installing the 6" | 150 mm Style 808 couplings
- The VG28GD, VG28GD-ABR and VDG26GD are designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 37 lbs. | 17 kg

Tool Ratings — Maximum Capacity		Pipe Size (in | mm)/Schedule							
Model	**Pipe Material**	2 50	2½ 65	3 80	3½ 90	4 100	5 125	6 150	8 200
VG28GD[2]	Steel	40 – 80[1]							
	Stainless	40 – 80[1]							
	Aluminum	40 – 80[1]							
	Ductile Iron			Class 53 Min.					
VG28GD-ABR[2]	Steel	40 – 80[1]							40
VDG26GD[2]	Steel							40 – 80	

[1] 6" | 150 mm Schedule 80

[2] Special knives and stops may be required.



Field Manual Cut Grooving Tools

VG824 (OGS)
VG824-ABR (ABRASION OGS)
VG824DG (DOUBLE GROOVE)

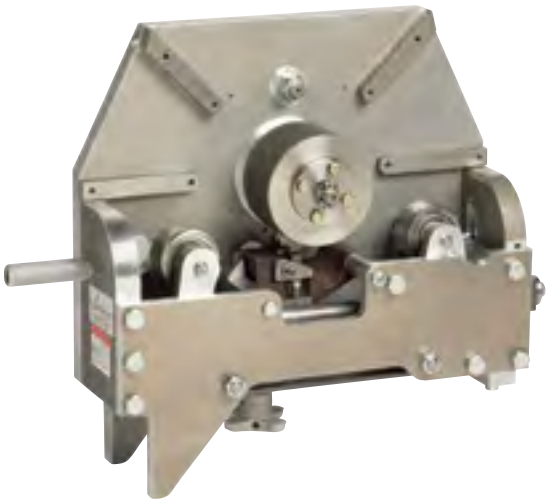
Download submittal 24.01 for complete information

- VG824 will produce a single OGS cut groove for unlined piping systems
- VG824-ABR will produce a single OGS cut groove that allows for lining of the pipe for abrasive services
- VG824DG will produce a double OGS cut groove for high pressure piping systems in conjunction with installing Style 808 couplings
- The VG824, VG824DG and VG824-ABR are designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 82 lbs. | 37.2 kg

Tool Ratings — Maximum Capacity

Model	Pipe Material	Pipe Size (in | mm)/Schedule								
		8 200	10 250	12 300	14 350	16 400	18 450	20 500	22 550	24 600
VG824[1]	Steel	40 – 80				30 – STD				
	Stainless	30 – STD								
	Aluminum	30 – STD								
	Ductile Iron	Class 53 Min.								
VG824DG[1]	Steel	40 – 80								
VG824-ABR[1]	Steel	40 – XS								

[1] Special knives and stops may be required.



Field Manual Cut Grooving Tools

VG828 (AGS)

Download submittal 24.01 for complete information

- VG828 will produce a single AGS cut groove
- The VG828 is designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 82 lbs. | 37.2 kg

Tool Ratings — Maximum Capacity

Model	Pipe Material	Pipe Size (in | mm)/Schedule					
		14 350	16 400	18 450	20 500	22 550	24 600
VG828[1]	Steel	.500-.750					

[1] Special knives and stops may be required.

Field Cut Grooving Tools

VG VIC®-GROOVER

Download submittal 24.01 for complete information

- Designed for manual or power cut grooving
- Supplied with a ratchet handle for manual operation
- Drive Requirements: Manual or external drive, min. ½ hp | 0.37 kw
- External power drives must meet all safety conditions
- Drive Speed: 40 rpm max.
- Weight: 28 lbs. | 13 kg

Tool Ratings — Maximum Capacity [1]		Pipe Size (in | mm)/Schedule											
Model	**Pipe Material**	¾ 20	1 25	1¼ 32	1½ 40	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150	8 200
VG	Steel	40 – 80											
	Stainless	40 – 80											
	Aluminum [2]	40 – 80											
	PVC Plastic	40 – 80											
	Ductile Iron									Cl. 53		Class 53 Min.	

[1] Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

[2] 6061-T4 or 6063-T4 alloy must be used.

Field Motorized Cut Grooving Tools

VG412 ORBITAL MACHINING TOOL

Download submittal 24.01 for complete information

- Specifically designed for field closure pieces (not suitable for production grooving)
- External mounting and drive action is particularly suited to cement lined ductile iron pipe grooving
- Hinged frame design allows cutting at any point along the pipeline
- Drive Requirements: 120 volt, 11.5 amp
- Weight: 151 lbs. | 69 kg

Tool Ratings — Maximum Capacity		Pipe Size (in | mm)/Schedule						
Model	**Pipe Material**	4 100	4½ 120	5 125	6 150	8 200	10 250	12 300
VG412	Steel	40 – 80						
	Ductile Iron	Class 53 Min.						

Plastic Groovers

VPG26

Download submittal 24.01 for complete information

- Features a high speed, router-type tool bit which cuts a radial groove, to full depth, in one manual rotation of the tool around the pipe
- Rotation Drive: Manual (clockwise)
- Power Requirements: 110 volt, single phase, 60 hertz, 7 amp
- Weight: 41 lbs. | 19 kg

Tool Ratings — Maximum Capacity		Pipe Size (in | mm)/Schedule						
Model	**Pipe Material**	2 50	2½ 60	3 80	3½ 90	4 100	5 125	6 150
VPG26	PVC Plastic	40 – 80						

Plastic Groovers

VPG824

Download submittal 24.01 for complete information

- Features a high speed, router-type tool bit which cuts a radial groove, to full depth, in one manual rotation of the tool around the pipe
- Rotation Drive: Manual (Clockwise)
- Power Requirements: 110 volt, single phase, 60 hertz, 7 amp
- Weight: 47 lbs. | 21 kg

Tool Ratings — Maximum Capacity		Pipe Size (in | mm)/Schedule				
Model	**Pipe Material**	8 200	10 250	12 300	14 350	16 400
VPG824	PVC Plastic	40 – 80				

Aquamine® Grooving Tools

APG

Download submittal 24.01 for complete information

- Manually operated tool used for producing a cut spline groove and beveled end on Aquamine® PVC pipe
- Prepares 4 – 12" | 100 – 300 mm Aquamine® pipe to receive an Aquamine® coupling
- Orbital tool which is rotated around a stationary, secured pipe
- May be operated on pipe held in a pipe vise or on supported in-place piping that is depressurized and drained
- Weight: 13 lbs. | 5.9 kg

Hole Cutting Tools

HCT908

Download submittal 24.01 for complete information

- One-piece hole cutting tool designed to cut holes up to 4½" | 120 mm in carbon and stainless steel pipe; for pipe sizes up to 8" | 200 mm
- Allows use of Mechanical-T®, Vic-Let®, and Vic-O-Well outlets
- Power Requirements: 110 volt, single phase, 60 hertz, 7 amp
- Weight: 23 lbs. | 10 kg

Hole Cutting Tools

VHCT900

Download submittal 24.01 for complete information

- Three-piece hole cutting tool designed to cut holes up to 3½" | 90 mm in diameter for Mechanical-T®, Vic-Let®, and Vic-O-Well® outlets
- Base unit clamps quickly onto the pipe in vertical, horizontal or overhead positions
- Available extended chain for 10–24" | 250–600 mm pipe
- Power Requirements: Grounded 120 volt, single phase, 60 hertz, 10 amp electrical supply (220 volt, single phase, 60 hertz, 5 amp available on request)
- Weight: 36 lbs. | 16 kg

Hole Cutting Tools

VIC-TAP® II

Download submittal 24.01 for complete information

- Hole cutting tool including Style 931 Vic-Tap® II Mechanical-T® unit for tapping into steel pipe systems under pressure up to 500 psi | 3450 kPa
- Hole size 2⅜" | 60.5 mm
- Power Requirements: 115 volt, single phase, 60 hertz, 7.5 amp
- Weight:
  Drill guide base: 15 lbs. | 6.8 kg; Drill motor and feed assembly: 16 lbs. | 7.3 kg; Style 931/Valve unit, 12–15 lbs. | 5.4–6.8 kg, depending upon size (4, 5, 6 and 8" | 100, 125, 150, 200 mm available)
- Standard Capability: 4–8" | 100–200 mm
  Run outlet only × 2½" | 65 mm (IPS) Outlet

Pipe Cut-Off Tools

VCT1 MANUAL

Download submittal 24.01 for complete information

- Lightweight and portable pipe cut-off tool handles 4 – 24" | 100 – 600 mm pipe, up to 0.5" | 12.7 mm thick
- Worm gear drive crank handle provides smooth, manual travel, easy control and accurate cutting
- Wall thickness: 0.065 – 0.500" | 1.65 – 12.7 mm (with tips supplied)
- Tips: Acetylene – 1 ea. #00, #0, #1
- Power Requirements: NA
- Weight: 22 lbs. | 10 kg

Pipe Cut-Off Tools

VCT2 AUTOMATIC

Download submittal 24.01 for complete information

- Rotation is powered by a small 120 VAC motor with SCR remote control
- Unique distributor design has stainless steel insert which extends tip life, eases cleaning and reduces backfire
- Wall thickness: 0.065 – 0.500" | 1.65 – 12.7 mm (with tips supplied)
- Tips: Acetylene – 1 ea. #00, #0, #1
- Motor rating: 15 W, 10,000 rpm
- Power requirements: 120 volt, single phase, 60 hertz, 15 amp
- Weight: 33 lbs. | 15 kg

Vic-Press® Tools

PFT510

Download submittal 24.01 for complete information

- Designed for securing Vic-Press® Schedule 10S products onto Schedule 10S stainless steel pipe
- Tool package includes:
  (1) PFT510 tool,
  (2) 18V Lithium Ion batteries,
  (1) battery charger,
  (1) tool carrying case,
  (1) jaw carrying case,
  (1) each of jaws sized ½" | 15 mm, ¾" | 20 mm, 1" | 25 mm, 1½" | 40 mm, and 2" | 50 mm, and
  (1) adapter jaw
- Not compatible with PFT505 and/or PFT509 tools/components
- Power Requirements: Battery pack 110 volt, 60 cycle, 6.5 amp (optional 220 volt)
- Weight: 21 lbs. | 9.5 kg
  (PFT510 with 1" | 25 mm jaw)

Tool Accessories

VPD752 POWER DRIVE

Download submittal 24.01 for complete information

- Can be used as the power drive unit for the VE226, VE26, VE206, VE46, VE416FS and VE272SFS roll grooving tools provided each tool is equipped with the correct base plate and the VG, VG28GD, and VG824 tools, with universal drive shaft
- Operated with a safety foot switch
- Power Requirements: 115 volts, 15 amp, 50/60 hertz (220 volt, 6 amp, 50/60 cycle option)
- Weight: 140 lbs. | 634 kg

Tool Accessories

POWER MULE II

Download submittal 24.01 for complete information

- Ideal for driving individual Victaulic® cut grooving tools
- Heavy-duty, two wheeled unit drives Victaulic® cut grooving tools at the speed/power necessary for accurate grooving
- Rotating head for horizontal and vertical applications
- Power Mule II equipped with forward-off-reverse control and integral safety foot switch
- Full load speed: 35 rpm
- Power Requirements: 115 volts, 15 amp, 50/60 cycle (220 volts optional)
- Weight: 190 lbs. | 86 kg

Tool Accessories

VAPS112 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed for supporting pipe to be roll grooved
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand
- Forward/traverse movement
- Capacity: ¾ – 12" | 20 – 300 mm IPS pipe
- Load rating: 1,075 lbs. | 490 kg
- Vertical stroke: 14½" | 368 mm for adjusting rod, 8½" | 216 mm leg adjustment 23" | 584 mm
- Minimum pipe height from floor: 23" | 584 mm on 12" | 300 mm pipe and 21" | 533 mm on 1" | 25 mm pipe
- Weight: 190 lbs. | 86 kg

Tool Accessories

VAPS224 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed specifically for supporting pipe to be roll grooved
- Self-standing, heavy-duty unit permits free pipe rotation and traversing on ball transfers
- Capacity: 2 – 24" | 50 – 600 mm IPS pipe
- Load rating: 1,800 lbs. | 816 kg
- Vertical stroke: 23" | 584 mm
- Minimum pipe height from floor 13" | 325 mm on 24" | 600 mm IPS pipe
- Maximum pipe height from floor 38" | 965 mm on 2" | 50 mm IPS pipe
- Weight: 260 lbs. | 118 kg

Tool Accessories

VAPS1672 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed specifically for supporting pipe to be roll grooved
- Self-standing, heavy duty unit permits free pipe rotation and traversing on ball transfers
- Designed for use with VE436MC and VE460 tools
- Capacity: 16 – 72" | 400 – 1800 mm IPS pipe
- Load rating: 10,000 lbs. | 4535 kg
- Vertical Stroke 17" | 425 mm
- Minimum pipe height from floor 16" | 400 mm on 72" | 1800 mm pipe
- Maximum pipe height from floor 28" | 700 mm on 16" | 400 mm pipe
- Weight: 480 lbs. | 218 kg

Tool Accessories

PT100A AND PT102

Download submittal 24.01 for complete information

- Go/No-Go, pocket-sized steel tapes for taking circumferential measurements of pipe
- Go/No-Go side can be used to check cut or roll grooved pipe for conformance to Victaulic® grooved specifications
- Tapes notched on the lead end to allow proper overlap within the groove for more accurate measurement
- PT100A contains Go/No-Go markings for use with ¾–24" | 20–600 mm pipe; tape marked with 0.01" | 0.25 mm increments on the opposite side
- PT102 contains Go/No-Go markings for use with Original Groove System sizes 8–12" | 200–300 mm and Advanced Groove System sizes 14–72" | 350–1800 mm; tape marked in 0.02" | 0.5 mm increments on the opposite side
- Go/No-Go side of tapes may not be used to measure cast iron, ductile iron, or copper tube sizes

Tool Accessories

TOOL CARRY BAG

Download submittal 24.01 for complete information

- Heavy duty tool carry bag for transporting roll grooving tools, grooving rolls, and other tool accessories
- Carry bag can accommodate up to 50 lbs. | 23 kg
- Weight: 4 lbs. | 2 kg

Manual Victaulic® Bolted Split-Sleeve Products (VBSP) Closure Tools

CTM-01 SMALL MANUAL TOOL
CTM-02 LARGE MANUAL TOOL

Download submittal 24.01 **for complete information**

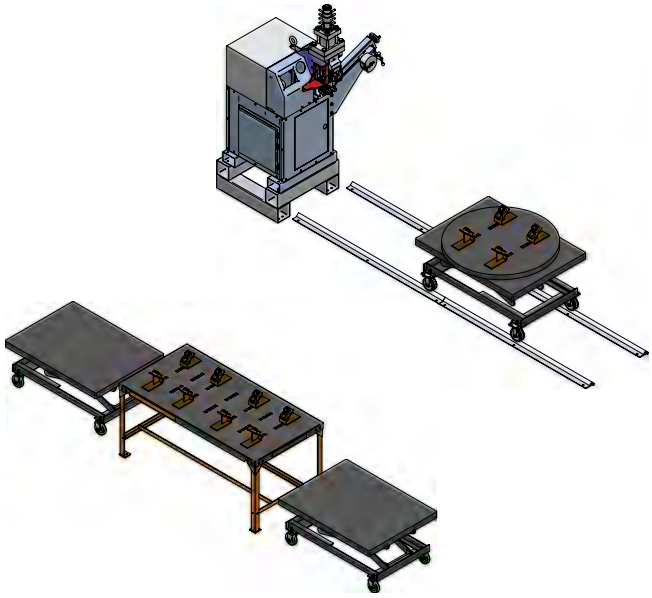
- Offered in small and large sizes and is ideal for joining select VBSP couplings
- The tool brings the coupling housings together to allow the bolts and nuts to be installed
- For specific information on the appropriate tool by coupling, please download individual coupling product submittals

Hydraulic VBSP Closure Tools

CTH-01 SMALL 10-TON HYDRAULIC TOOL
CTH-02 LARGE 25-TON HYDRAULIC TOOL

Download submittal 24.01 **for complete information**

- The CTH-01 hydraulic tool can be used on many of the VBSP couplings
- Applying up to 10 tons of hydraulic force, the CTH-01 makes joining VBSP faster, easier and more reliable
- The CTH-02 hydraulic tool is designed for joining VBSP with a wall thickness of ¾" | 19 mm or 1" | 25.4 mm
- Exerting over 25 tons of pressure, the tool is the fastest, safest and easiest way to assemble any Type 3 VBSP
- For specific information on the appropriate tool by coupling, please download individual coupling product submittals



Fabrication Cell

VAP131

Download submittal 24.01 for complete information

- Turn-key, fab-shop solution
- Maximize productivity gains associated with Victaulic® grooved systems
- Includes hydraulic adjustable pipe stand and tracks, tool support, two adjustable positioner tables, an assembly table, as well as caster wheels and ball transfers

Fabrication Cell

VAPS 131R HYDRAULIC ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed to support pipe for roll grooving
- 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 from pipe stand
- Capacity: 4 – 24" | 100 – 600 mm IPS pipe; load rating: 2000 lbs. | 907 kg
- Vertical stroke: 30.5" | 775 mm
- Minimum pipe height from floor: Compatible with Victaulic® production roll grooving tools
- Power Requirements: 115 VAC
- Weight: 500 lbs. | 227 kg

Fabrication Cell

VAPS 131F HYDRAULIC POSITIONER

Download submittal 24.01 for complete information

- Designed to support grooved pipe, valves, and fittings when used in conjunction with the VAPS 131T Assembly Table
- Foot control provided for hands-free operation
- Swivel caster wheel design for better mobility
- Capacity: 4–24" | 100–600 mm IPS pipe; load rating: 1200 lbs. | 544 kg with wheels installed, 2000 lbs. | 907 kg without wheels
- Vertical stroke: 29.25" | 743 mm
- Power Requirements: 115 VAC
- Weight: 400 lbs. | 181 kg

Fabrication Cell

VAPS 131T ASSEMBLY TABLE

Download submittal 24.01 for complete information

- Designed to support grooved pipe, valves, and fittings when used in conjunction with VAPS 131F Hydraulic Positioner
- Ball transfer assemblies can be positioned to accommodate pipe from 2–24" | 50–600 mm
- Capacity: 4–24" | 100–600 mm IPS pipe; load rating: 8000 lbs. | 3629 kg, ball transfers load rating 700 lbs. | 318 kg
- Vertical stroke: 29.25" | 743 mm
- Weight: 500 lbs. | 227 kg

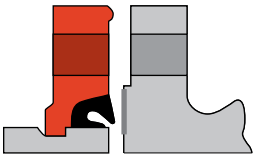
Elastomer Gasket Seals

Victaulic® offers a broad variety of synthetic rubber gaskets suitable for a wide range of applications. Victaulic® gaskets provide high- and low-temperature limits, tensile strength, chemical resistance and shelf life.

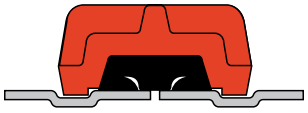
Installation-Ready™

Standard

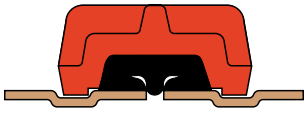
Reducing



Vic-Flange®

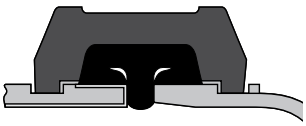


FlushSeal®

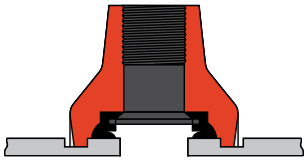


Grooved Copper Tubing with FlushSeal® Gasket

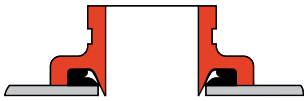
Advanced Groove System (AGS)



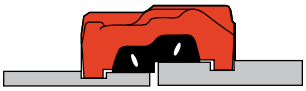
EndSeal®



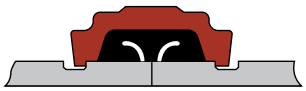
Outlet



Mechanical-T®



IPS to AWWA Transition

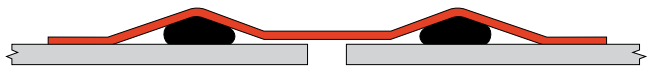


AWWA FlushSeal®

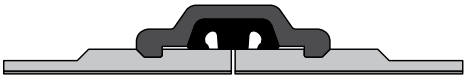
Plain End

Plain End Piping System for HDPE Pipe

Vic-Press® for Schedule 10S Stainless Steel



Victaulic® Bolted Split-Sleeve Products (VBSP)



FRP

Gasket Materials

Victaulic® offers a wide variety of synthetic rubber gaskets for a broad range of applications. For most water applications, the Victaulic® Grade "E" EPDM (ethylene propylene diene monomer) gasket compound is compatible. Victaulic® Grade "E" material has premium performance properties with respect to aging and resistance to heat and hot water. Heat aging tests at +250°F | +121°C conducted on this material show essentially no change in physical properties. This situation is further enhanced when this rubber is subjected to an essentially non-oxidative environment, such as a gasket in a water piping system. For example, aging tests in a non-oxidative atmosphere show essentially no change in physical properties of this material even when tested at temperatures up to +350°F | +177°C.

Since water has no deteriorating effect on the elastomer, temperature is the only limiting factor to be considered in determining the life expectancy of the elastomer in water service. The superior performance of the Grade "E" elastomer permits its use for hot water service up to +230°F | +110°C. The Grade "E" gasket is superior to previous gasket materials by all performance barometers, including high and low temperature limits, tensile strength, chemical resistance and shelf life.

Gasket/Seal/O-Ring Data

Victaulic® offers a variety of synthetic rubber gaskets/seals/o-rings for the widest range of applications. To assure the maximum life for the service intended, proper gasket selection and specification in ordering is essential. The foremost consideration is temperature, along with concentration of product, duration of service and continuity of service. Temperatures beyond the compatibility limits have a degrading effect on the polymer.

Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets/seals/o-rings are not compatible. Reference should always be made to the latest Gasket Chemical Services Guide (**download publication GSG-100**) for specific service guidelines and for a listing of services which are not compatible.

Gasket guidelines apply only to Victaulic® gaskets, seals and o-rings. Guidelines for a particular service do not necessarily imply compatibility of the coupling housing, related fittings or other components for the same service.

These guidelines do not apply to rubber-lined or rubber seal valves or other rubber-lined products. Victaulic® gaskets are clearly marked as part of the mold with the gasket size, style and compound for easy identification.

Potable Water Listings and Classifications

Grade "E" EPDM, Grade "E" Vic-Plus™, Grade "E2", Grade "EHP" and Grade "EHP" Vic-Plus™ gaskets are UL Classified in accordance with ANSI/NSF 61 for cold (+86°F | +30°C) and hot (+180°F | +82°C) potable water service and ANSI/NSF 372. **Download publication 02.06** for more details.

Victaulic® Grade "M" halogenated butyl gasket material (which is typically used with our AWWA sized products) is UL Classified in accordance with ANSI/NSF 61 for cold (+86°F | +30°C) potable water service and ANSI/NSF 372. **Download publication 02.06** for more details.

Vic-Press® Schedule 10S couplings and fittings: UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service with "E" and "H" o-rings and ANSI/NSF 372. **Download publication 02.06** for more details.

In addition to the above, the standard black asphalt coating used on our cement lined AWWA size fittings is NSF 61 Listed. As the coating is the only material that comes in contact with the water, NSF 61 compliant coatings are commercially available and may be applied to our products. For more details about Victaulic® gasket construction and testing, **download submittal 05.01**.

Gasket Lubricant

Thorough lubrication of the gasket exterior, including the lips and/or pipe ends and housing interiors, is essential for proper installation. Use Victaulic® Lubricant for installation. Other compatible material, such as silicone and others may be used on Grades "E" or "L" gaskets. Victaulic® Lubricant is available in a box of (12) 4 fluid ounce | 114 milliliter tubes or in 1 quart | 946 milliliters containers.

Important Note: Victaulic® Lubricant is not compatible for use with high-density polyethylene (HDPE) pipe.

ALWAYS USE LUBRICANT FOR PROPER COUPLING ASSEMBLY.

Valve Seals

Victaulic® Gasket Selection Guide (05.01) does not include Victaulic® seals for valves. Refer to the individual Victaulic® valve submittal for information on the seals available for each valve.

⚠ WARNING

- **To assure maximum life for the service intended, proper gasket selection and specification in ordering is essential. For specific chemical and temperature compatibility, refer to the Gasket Selection and Chemical Services sections. The information shown defines general ranges for all compatible fluids.**

Failure to select the proper rubber compound may result in personal injury or property damage, improper installation, joint leakage or joint failure.

Standard Gaskets — IPS

Grade[1]	Temp. Range[1]	Compound	Color Code	General Service Guidelines
E	–30°F to +230°F –34° C to +110° C	EPDM	Green Stripe	May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**
EHP[2]	–30°F to +250°F –34°C to +120°C	EPDM	Red and Green Stripes	May be specified for hot water service within the specified temperature range. UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**
T	–20°F to +180°F –29° C to +82° C	Nitrile	Orange Stripe	May be specified for petroleum products, hydrocarbons, air with oil vapors, vegetable and mineral oils within the specified temperature range. **Not compatible for use with hot, dry air over +140°F | +60°C and water over +150°F | +66°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.**
E (Type A)[3]	Ambient	EPDM	Violet Stripe	Applicable for wet and dry (oil-free air) sprinkler services only. For dry services FlushSeal® gaskets may be specified. **NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.**
E2	Ambient	EPDM	Double Green Stripe	UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**

[1] For specific chemical and temperature compatibility, refer to the Gasket Selection Guide (05.01) which includes the Gasket Chemical Services Short Report or refer to the Gasket Chemical Services Guide Long Report (GSG-100) located on victaulic.com. The information shown defines general ranges for all compatible fluids.

[2] The Grade EHP gasket is only available on Style 107, 607 and 177 couplings.

[3] Vic-Plus™ pre-lubricated gasket.

Special Gaskets—IPS

Grade	Temp. Range[1]	Compound	Color Code	General Service Guidelines
M2	–40°F to +160°F –40° C to +71° C	Epichlorohydrin	White Stripe	Specially compounded to provide superior service for common aromatic fuels at low temperatures. Also suitable for certain ambient temperature water services.
V	–30°F to +180°F –34° C to +82° C	Neoprene	Yellow Stripe	May be specified for hot lubricating oils and certain chemicals. Good oxidation resistance. Will not support combustion.
O	+20°F to +300°F –7° C to +149° C	Fluoroelastomer	Blue Stripe	May be specified for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons. **NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.**
L	–30°F to +350°F –34° C to +177° C	Silicone	Red Gasket	May be specified for dry heat, air without hydrocarbons to +350°F | +177°C and certain chemical services.
A	+20°F to +180°F –7° C to +82° C	White Nitrile	White Gasket	No carbon black content. May be used for food. Meets FDA requirements. Conforms to CFR Title 21 Part 177.2600. **Not compatible for use with hot, dry air over +140°F | +60°C and water over +150°F | +66°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.**
HMT (T EndSeal®)	–20ºF to +150ºF –29ºC to +66ºC	Nitrile	Orange and Silver Stripes	Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. May be specified for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. For maximum gasket life under pressure extremes, the temperature should be limited to +120°F | +49°C. **NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OVER +150°F | +66°C OR FOR HOT, DRY AIR OVER +140°F | +60°C.**
EF	–30°F to +230°F –34°C to +110°C	EPDM	Green "X"	May be specified for hot and cold water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Also meets hot and cold potable water requirements per DVGW, KTW, ÖVGW, SVGW and French ACS (Crecep), approved for W534, approved for EN681-1 Type WA cold potable and Type WB hot potable water service. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**
EW	–30°F to +230°F –34°C to +110°C	EPDM	Green "W"	May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. WRAS approved material to BS 6920 for cold and hot potable water service up to +149°F | +65°C UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**

[1] For specific chemical and temperature compatibility, refer to the **Gasket Selection Guide (05.01)** which includes the Gasket Chemical Services Short Report or refer to the **Gasket Chemical Services Guide Long Report (GSG-100)** located on **victaulic.com**. The information shown defines general ranges for all compatible fluids.

AWWA Coupling Gaskets

Grade	Temp. Range[1]	Compound	Color Code	General Service Guidelines
S	–20° F to +180° F –29° C to +82° C	Nitrile	Orange Stripe	Specially compounded to conform to ductile pipe surfaces. May be specified for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. **Not compatible for use with hot, dry air over +140°F | +60°C and water over +150°F | +66°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.**
M	–20° F to +200° F –29° C to +93° C	Halogenated Butyl	Brown Stripe	May be specified for water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. Readily conforms to ductile iron pipe surfaces. UL Classified in accordance with ANSI/NSF 61 for cold +86°F | +30°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**

[1] For specific chemical and temperature compatibility, refer to the **Gasket Selection Guide (05.01)** which includes the Gasket Chemical Services Short Report or refer to the **Gasket Chemical Services Guide Long Report (GSG-100)** located on **victaulic.com**. The information shown defines general ranges for all compatible fluids.

Vic-Press® Seals

Grade	Temp. Range[1]	Compound	Color Code	General Service Guidelines
H	–20° F to +210° F –29° C to +98° C	Hydrogenated Nitrile Butadiene Rubber (HNBR)	Two Orange Stripes	May be specified for hot petroleum/water mixtures, hydrocarbons, air with oil vapors, vegetable and mineral oils, engine oil and transmission oil. UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372.
	Standard Seal: Vic-Press® products will ship with Grade "H" seal unless otherwise specified on order.			
E	–30° F to +250° F –34° C to +121° C	EPDM	Green Stripe	May be specified for hot water service, dilute acids, oil-free air, chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C and hot +180°F | +82°C potable water service and ANSI/NSF 372. **NOT COMPATIBLE FOR USE WITH PETROLEUM OR STEAM SERVICES.**
O	+20° F to +300° F +6° C to +149° C	Fluoroelastomer	Blue Stripe	May be specified for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons. **NOT COMPATIBLE FOR USE WITH HOT WATER OR STEAM SERVICES.**

[1] For specific chemical and temperature compatibility, refer to the **Gasket Selection Guide (05.01)** which includes the Gasket Chemical Services Short Report or refer to the **Gasket Chemical Services Guide Long Report (GSG-100)** located on **victaulic.com**. The information shown defines general ranges for all compatible fluids.

VBSP O-rings

Grade	Temp. Range[1]	Compound	Color Code	General Service Guidelines
E	-30°F to +230°F -34°C to +110°C	EPDM	N/A	Cold and hot water within allowable temperature range; dilute acids; excellent resistance to the deteriorative effects of ozone, oxygen, heat and most chemicals not involving hydrocarbons. **NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.**
L	-30°F to +350°F -34°C to +177°C	Silicone	N/A	Dry, hot air applications; excellent resistance to many chemicals. **NOT COMPATIBLE FOR USE WITH HOT WATER OR STEAM SERVICES.**
I	-40°F to +160°F -40°C to +71°C	Isoprene	N/A	Water; saltwater; sewage; good resistance to oxygen and dilute acids.

[1] For specific chemical and temperature compatibility, refer to the Gasket Selection Guide (05.01) which includes the Gasket Chemical Services Short Report or refer to the Gasket Chemical Services Guide Long Report (GSG-100) located on victaulic.com. The information shown defines general ranges for all compatible fluids.

VBSP Gaskets

Grade	Temp. Range[1]	Compound	Color Code	General Service Guidelines
T	-20°F to +180°F -28°C to +82°C	Nitrile	N/A	Water; petroleum products, vegetable and mineral oils; air with oil vapors within allowable temperature.
O	+20°F to +300°F -7°C to +149°C	Fluoroelastomer	N/A	Outstanding resistance to heat and most chemicals.
V	-30°F to +180°F -34°C to +82°C	Neoprene	N/A	Water and wastewater; good resistance to ozone, effects of UV and some oils.

[1] For specific chemical and temperature compatibility, refer to the Gasket Selection Guide (05.01) which includes the Gasket Chemical Services Short Report or refer to the Gasket Chemical Services Guide Long Report (GSG-100) located on victaulic.com. The information shown defines general ranges for all compatible fluids.

Introduction

This Victaulic® General Catalog has been written for the piping system installer, designer, specification writer and owner as a basic reference guide for data about Victaulic® mechanical piping methods. 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. i, for a fully detailed index, see pg. 125. For more detailed information, **download Design Data 26.01**.

Important Information

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 or threaded end pipe and/or fittings. Nor are they intended for use with Advanced Groove System (AGS) components used on 14–72" | 350–1825 mm pipe sizes.**

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 (download submittal 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, 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® 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.

Notice

The technical and performance data, weights, dimensions and specifications published in this catalog supersede all previously published data.

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 **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-100	General Handbook
I-300	AWWA Products Handbook
I-P500	Vic-Press® Handbook
I-600	Copper 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 **victaulic.com**.

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.

Nominal 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	1 1/4	32*/42.4 mm
1½	48.3 mm	40	40 A/48.6 mm	1 1/2	40*/48.3 mm
2	60.3 mm	DN & ISO 50	50 A/60.5 mm	2	50*/60.3 mm
2½	73.1 mm	—	—	2 ½	—
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
14	355.6 mm	DN 350	JIS 350 A	14	355.6 mm
	377 mm China	—	—	—	377 mm
16	406.4 mm	DN 400	JIS 400 A	16	406.4 mm
	426 mm China	—	—	—	426 mm
18	457.2 mm	DN 450	JIS 450 A	18	457.2 mm
	480 mm China	—	—	—	480 mm
20	508 mm	DN 500	JIS 500 A	20	508 mm
	530 mm China	—	—	—	530 mm
22	558.8 mm	—	JIS 550 A	22	559 mm

Continued on next page.

Design Data

Nominal Imperial Inches – Size Group	Outside Diameter mm/Spec Ref	DIN mm	JIS mm	ANSI inches	China Standard (GB) mm
24	610 mm	DN 600	JIS 600 A	24	610 mm
	630 mm China	—	—	—	630 mm
26	660 mm	—	JIS 650 A	26	660 mm
28	711 mm	DN 700	—	28	711 mm
30	762 mm	—	—	30	762 mm
32	813 mm	DN 800	—	32	813 mm
34	864 mm	—	—	34	864 mm
36	914 mm	DN 900	—	36	914 mm
40	1016 mm	DN 1000	—	40	1016 mm
42	1067 mm	DN 1050	—	42	1067 mm
44	1118 mm	DN 1100	—	44	1118 mm
46	1168 mm	DN 1150	—	46	1168 mm
48	1219 mm	DN 1200	—	48	1219 mm
54	1372 mm	DN 1350	JIS 1372	54	1372 mm
56	1422 mm	DN 1400	JIS 1422	56	1422 mm
60	1524 mm	DN 1500	JIS 1524	60	1524 mm

GENERAL NOTES:

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 shaded boxes are tubing sizes.

* Nominal sizes

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
0.069	×	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 ÷ 1.8		Temp.(°F)	⇔	Celsius (°C)		C + 17.78 × 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
3.785	×	10^{-3} Gal. per Min. (GPM)	⇔	Cubic Meters per Min. (m^3/m)	×	264.2

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WARRANTY:

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® 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 a Victaulic® factory or which has been used in a manner contrary to Victaulic® instructions or recommendations. Victaulic® 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.

PRODUCT CERTIFICATIONS:

Fire Protection

ACTIVFIRE – ActivFire Register of Fire Protection Equipment (Australia)

CCCF – China Certification Center for Fire Protection Products (China)

CFPSC – Chinese Fire Protection Safety Center (Taiwan)

CNBOP – Centrum Naukowo-Badawcze Ochrony Przeciwpozarowej (Poland)

CNPP- Centre National de Prévention et de Protection (France)

CTPC – Consiliul Technic Permanent Pentru Constructii (Romania)

cULus – Underwriter's Laboratories, LLC (USA)

EMI – Epitesugyi Minosegellenorzo Innovacious (Hungary)

FDNY – City of New York Fire Department (USA)

FM – FM Approvals (USA)

HDB – Singapore Housing Development Board (Singapore)

KFI – Korea Fire Industry Technology Institute (Korea)

LPCB – Loss Prevention Certification Board (UK)

SBSC – Svensk Brand & Säkerhets Certifiering AB (Sweden)

TFRI – Tanjin Fire Research Institute of Ministry of Public Security (China)

TSU – Technický Skúšobný Ústav Pieštany, š.p. (Slovakia)

TSUS – Technický Skúšobný Ústav Stavebný, n.o. (Slovakia)

TZUS – Technický a Zkuševní Ústav Stavební Praha, s.p. (Czech Republic)

UKRFIRESERT – State Certification Center (Ukraine)

UL – Underwriter's Laboratories, LLC (USA)

ULC – Underwriter's Laboratories of Canada (Canada)

VdS – Verband der Schadenverhütung GmbH (Germany)

VKF – Vereinigug Kantonaler Feuerversicherungen (Switzerland)

VNIIPO – Russia Fire Protection Science & Research Institute (Russia)

Zagrebinspekt (Croatia)

Potable Water

ÁNTSZ – Állami Népegészségügyi És Tisztiorvosi Szologálat (Hungary)

ARPA – Agenzia Regionale per la Protezione dell'Ambiente (Italy)

DVGW – Deutscher Verein des Gas- und Wasserfaches e.V. (Germany)

Eurofins – ACS : Attestation de Conformité Sanitaire (France)

HZJZ – Croatian National Institute of Public Health (Croatia)

NSF – NSF International (USA)

ÖVGW – Österreichische Vereinigung für das Gas- und Wasserfach (Austria)

PZH – Panstwowy Zaklad Higieny (Poland)

RUVZPP – Regionálny úrad verejného zdravotníctva so sídlom v Poprade (Slovakia)

SAI – SAI Global (Australia)

SPAN – Suruhanjaya Perkhidmatan Air Negara (Malaysia)

SVGW – Schweizerischer Verein des Gas- und Wasserfaches (Sweden)

UL – Underwriter's Laboratories, LLC (USA)

WRAS – Water Regulations Advisory Scheme (UK)

ZUOVA – ZDRAVOTNÍ ÚSTAV se sídlem v Ostrave (Czech Republic)

Maritime

ABS – American Bureau of Shipping (USA)

BV – Bureau Veritas (France)

CCG – Canadian Coast Guard (Canada)

CSS – China Classification Society (China)

DNV – Det Norske Veritas (Norway)

GL – Germanischer Lloyd (Germany)

KRS – Korean Registry of Shipping (Korea)

LR– Lloyd's Register of Shipping (UK)

RINA – Registro Italiano Navale (Italy)

USCG – US Coast Guard (USA)

HVAC

CSTB - Centre Scientifique et Technique du Bâtiment (France)

ITB – Instytut Techniki Budowlanej (Poland)

Sercons Europe BV (Russia)

Plumbing

IAPMO – International Association of Plumbing & Mechanical Officials (USA)

ICC-ES – International Code Council- Evaluation Service (USA)

NSF – NSF International (USA)

COMPLIANCE:

Codes/Standards

ANSI – American National Standards Institute (USA)

API – American Petroleum Institute (USA)

APSAD – Assemblée Plenière Société Assurance Dommage (France)

AS/NZS – Standards Australia and Standards New Zealand (AU & NZ)

ASTM – American Society for Testing and Materials (USA)

AWWA – American Water Works Association (USA)

BOCA – Building Officials and Code Administrators (USA)

CSA – Canadian Standards Association (Canada)

CSFM – California State Fire Marshal (USA)

GOST R – Gosstandart (Russia)

IPC – International Plumbing Code (USA)

ISO – International Standards Organization (Global)

NACE – National Association of Corrosion Engineers (USA)

NFPA – National Fire Protection Association (USA)

SBCCI – Southern Building Code Congress International (USA)

UPC – Uniform Plumbing Code (USA)

Pressure Equipment Safety

(97/23/EC) PED – Pressure Equipment Directive (Europe)

CSA B51 – "Boiler, Pressure Vessel, and Pressure Piping Code" (Canada)

CRN – Canadian Registration Number per CSA B51 (Canada)

(EU/305/2011) CPR – Construction Products Regulation- Fire safety products (Europe)

Chemical Safety / Recycling

(EC/1907/2006) REACH– Registration, Evaluation, Authorization, and Registration of Chemicals (Europe)

(2002/95/EC) RoHS – Restriction of Hazardous Substances Directive (Europe)

(2002/96/EC) WEEE – Waste Electrical and Electronic Equipment Directive (Europe)

Building Services

NBC – National Building Code (Canada)

PSB – TUV SUD PSB Singapore (Singapore)

Explosive Environments

(94/9/EC) ATEX – Equipment and protective systems for potentially explosive atmospheres (Europe)

Seismic

OSHPD – Office of Statewide Health Planning and Development (USA)

Tools and Machinery

(2006/42/EC) MD – Machinery Directive (Europe)

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G-103 0789 REV P 02/2014