Since 1919, Victaulic’s innovative solutions and design services continue
to increase construction productivity and reduce risk, ensuring projects are
completed safely, on time and within budget. With more than 4,000 employees
and 55 international facilities, Victaulic helps customers in 120 countries
succeed in the global construction industry. Learn more about how our
solutions engineer confidence into every build at victaulic.com.
The story behind Victaulic’s current standing as a global market leader is rich with historical significance and important technological advancements. Throughout its innovative history, the company’s enthusiasm for crafting unconventional solutions has allowed it to forge new paths as it continues to tackle the industry’s most unique challenges.

Victaulic customers have always been able to stand on the company’s commitment to quality and excellence. On behalf of Victaulic’s owners, board of directors and former and current associates, Victaulic looks forward to serving you for many years to come.

Regulatory Compliance

Victaulic piping system products are tested and certified for a wide range of applications. Victaulic engages with many certifying authorities, approval bodies, and standards organizations globally, and maintains product certifications and strict compliance to applicable codes, standards, and directives, relevant to specific industries and markets.

PRODUCT CERTIFICATIONS:

**Fire Protection**
ACT/FIT/FR – Active Fire Register of Fire Protection Equipment (Australia)
AGN – AGN New Zealand
CCCP – China Certification Center for Fire Protection Products (China)
CFTPC – Chinese Fire Protection Safety Center (Taiwan)
CNBDE – Centrum Naftowej Badań Dosłownych (Poland)
CEP – Central Council of Prevention and de Protection (France)
CFM – California State Fire Marshall (USA)
CPTC – Comité Technique Permanent pour les Constructions (Romania)
EMI – Epistemique Microondes et Innovations (Hungary)
FESC – Fire Equipment and Safety Center of Japan
FDNY – Fire Department, City of New York (USA)
FM – FM Approvals (USA)
HDB – Housing Development Board (Singapore)
KFI – Korea Fire Institute
KFD – Korean Fire Service Directorate
LPCB – Loss Prevention Certification Board (UK)
SEFC – Svenska Brandsäkerhetsverket (Sweden)
TFB – Tapir Fire Research Institute of Ministry of Public Security (China)
TSG – Technische Überwachungs Gesellschaft (Germany)
TSZS – Technischzulassungs Staatliche Prüfstelle (Austria)
ULC – Underwriters Laboratories (USA)

**VSL – Verband der Schadensvereinigung GmbH (Germany)**
KVT – Vereinigung Sanitärtechnische Feuerversicherungen (Switzerland)
Zagrebprvebit (Croatia)

**Potable Water**
APRA – Agence Régionale pour la Protection de l’Environnement (Italy)
Belgian – Belgische Federatie voor de Watersector (Belgium)
DGVO – Deutscher Verein des Gas- und Wasserfaches e.V. (Germany)
Euroﬁns – ACS – Attestation de Conformité Sanitaire (France)
HEZ – Heimatische zentrale zulassung (Austria)
ISP – Institute National De Sécurité Publique (Romania)
KINWA – Korea Water and Wastewater Works Association
NSF – NSF International (USA)
OVG – Österreichische Vereinigung für das Gas- und Wasserfach (Austria)
PZH – Państwowy Zakład Higieny (Poland)
RÚZP – Regionalni ústav zavodstva (Slovenia)
SIA – Water-Mark/Ma (Australia)
SFAN – Sjöfartsverket Perhännord Stearning (Sweden)
SVG – Schwedische Verein des Gas- und Wasserfaches (Switzerland)
UL – Underwriter’s Laboratories, LLC – NSF 61/372 (USA)
WRS – Water Regulations Advisory Scheme (UK)
ZORWA – Zonwetwater en Zeldzame (Czech Republic)

**Maritime**
ABS – American Bureau of Shipping
BV – Bureau Veritas (France)
CCG – Canadian Coast Guard
CS – Canadian Register of Shipping
CSSC – China Classification Society (China)
DNV GL – Det Norske Veritas (Norway)
KSS – Korean Register of Shipping
LR – Lloyd’s Register of Shipping
RINA – Registro Italiano Navale (Italy)
USCG – US Coast Guard (USA)

**HVAC**
CSB – Centre Scientifique et Technique du Bâtiment (France)
PB – Instytut Techniki Budownictwa (Poland)
Sécurité Europe (Russia)

**Plumbing**
IPMPO – International Association of Plumbing & Mechanical Officials (USA)
NSF – NSF International (USA)

**Compliance:**

**Codes and Standards Compliance**
ARD – American National Standards Institute
API – American Petroleum Institute
APIASD – Asociación Profesional de la Seguridad (Spain)
ASME – American Society of Mechanical Engineers (USA)
ASTM International (USA)
AWWA – American Water Works Association
CSA – Standards Canada
IC – International Code Council (USA)
BVC – Basic Vocational Code
NBCC – National Building Code (Canada)

**Explosive Environments**
2014/34/EU ATEX – Equipment and protective systems for potentially explosive atmospheres (Europe)

**Seismic**
OSHPD – Office of Statewide Health Planning and Development (USA)
CRN – Canadian Registration Number (Canada)

**Gas**
AS/NZS – Standards Australia and Standards New Zealand
IEC – International Electrotechnical Commission

**Electrical and Electronic Equipment Directive (EU)**
PED – Pressure Equipment Directive
CEP – Construction Products Regulation (EU)

**Harmonized Categorization**

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**Building Services**
EU, SIA – Water-Mark/Ma (Australia)

**Tools and Machinery Safety**
ISO 9001:2008 – Quality Management System

**Other**
ANSI – American National Standards Institute
ASME – American Society of Mechanical Engineers (USA)
AS/NZS – Standards Australia and Standards New Zealand
Belgique – Belgische Federatie voor de Watersector (Belgium)
CE – CE Marking
DVGW – Deutscher Verein des Gas- und Wasserfaches e.V. (Germany)
EC – European Conformity
FAD – Federal Agency for Technical Control of Buildings (China)
FDNY – Fire Department, City of New York (USA)
FM – FM Approvals (USA)
HDB – Housing Development Board (Singapore)
ICE – Institution of Civil Engineers (UK)
INSP – Institutul Naţional De Protecţia Mediului (Romania)
ISO – International Organization for Standardization
KFI – Korea Fire Institute
KFD – Korean Fire Service Directorate
LPCB – Loss Prevention Certification Board (UK)
NSF – NSF International (USA)
OECD – Organisation for Economic Co-operation and Development
PAO – Public Administration of the People’s Republic of China
PZH – Państwowy Zakład Higieny (Poland)
PZ – Public Authority (Poland)
RÚZP – Regionalni ústav zavodstva (Slovenia)
SIA – Water-Mark/Ma (Australia)
SFAN – Sjöfartsverket Perhännord Stearning (Sweden)
SFS – Swedish Standards Institute (Sweden)
SIEE – Spanish Federation of Engineering (Spain)
UL – Underwriter’s Laboratories (USA)
WFC – Water Framework Directive (EU)
WRIA – Water Regulations Advisory Scheme (UK)
ZORWA – Zonwetwater en Zeldzame (Czech Republic)

**Pressure Equipment Safety**
2012/60/EU PED – Pressure Equipment Directive (Europe)

**Chemical Safety / Recycling**
BSI – British Standards Institution
CE – CE Marking
OSHPD – Office of Statewide Health Planning and Development (USA)
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Victaulic® offers a wide variety of continuing education courses. From one-hour seminars to full-day events, these courses provide education on key industry concepts and Victaulic solutions. Continuing education courses are created for owners, engineers, contractors, the inspection community, and anyone seeking to expand their knowledge of Victaulic and the industry surrounding the grooved pipe joining and flow control markets.

For more information on the Victaulic continuing education courses or to schedule your training, please contact your local sales representative or email us at: VictaulicUniversity@victaulic.com
Drawing, BIM coordination, training and software solutions for the commercial construction industry. Victaulic.com/resource-software offers an extensive library of CAD files and software product content created in each software’s native platform.

FASTER FROM THE START℠

Victaulic Tools for Revit® provides an intuitive set of tools that are purposely built to improve pipe routing and fabrication functionality in Autodesk Revit. It’s specifically designed to meet the needs of engineers, contractors and pipe fabricators – giving you smarter tools to fabricate faster and route more efficiently. victaulicsoftware.com
GROOVED PIPE JOINING TECHNOLOGY

How does it work?
The groove is cold formed or machined into the pipe end using a grooving tool. The coupling housings, fully surrounding a gasket, are assembled around two grooved pipe ends, and the key sections of the housings engage into 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 of 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:**

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

- **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 stresses.

- **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.

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

- **Easy system maintenance and expansion**—through simple coupling disassembly that allows for easy access.

- **Rigidity**—with an angled bolt 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. Up to three times faster to install than a welded system, and more dependable than a threaded or flanged assembly, the Victaulic approach reduces risk and 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, positioning the housings around the gasket, and 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 the bolts and nuts are tightened down. What previously required minutes, now takes only seconds.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

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QuickVic™ Rigid Coupling
STYLE 107N

Download publication 06.23 for complete information

- Angled bolt pad housing design provides rigidity
- Sizes from 2 – 12" | DN25 – DN300
- Pressures up to 750 psi | 5171 kPa | 52 bar
- Download publication 17.01 for applications in stainless steel systems
- Download publication 21.04 for applications in aluminum systems

QuickVic™ Flexible Coupling
STYLE 177N

Download publication 06.24 for complete information

- Flexible pipe joint which allows for expansion, contraction and deflection
- Sizes from 2 – 8" | DN50 – DN200
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- Download publication 17.01 for applications in stainless steel systems
- Download publication 21.04 for applications in aluminum systems
- Download publication 32.01 for applications in PVC systems

Zero-Flex™ Rigid Coupling
STYLE 07

Download publication 06.02 for complete information

- Angled bolt pad housing design provides rigidity
- Sizes from 1 – 12" | DN25 – DN300
- Pressures up to 750 psi | 5171 kPa | 52 bar
- For sizes 14 – 50" | DN350 – DN1250, download publication 20.02 for information on AGS Style W07
Flexible Coupling

STYLE 77

Download publication 06.04 for complete information

- Lightweight coupling for moderate pressures
- Flexible pipe joint which allows for expansion, contraction and deflection
- Sizes from ¾ – 24" | DN20 – DN600
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- For sizes 14 – 78" | DN350 – DN1950, download publication 20.03 for information on AGS Style W77
- Download publication 32.01 for applications in PVC systems
- Download publication 21.01 for information on Style 77A for applications in aluminum systems

Flexible Coupling

STYLE 75

Download publication 06.05 for complete information

- Lightweight coupling for moderate pressures
- Flexible pipe joint which allows for expansion, contraction and deflection
- Sizes from 1 – 8" | DN25 – DN200
- Pressures up to 500 psi | 3447 kPa | 34 bar

Reducing Coupling

STYLE 750

Download publication 06.08 for complete information

- Replaces two couplings and a reducing fitting
- Sizes from 2 – 10" | DN50 – DN250
- Pressures up to 500 psi | 3447 kPa | 34 bar
**Original Groove System (OGS)**

**Snap-Joint™ Coupling**
**STYLE 78**

*Download publication 06.09 for complete information*

- Designed for quick disconnect service
- Sizes from 1–8" | DN25–DN200
- Pressures up to 300 psi | 2068 kPa | 21 bar
- *Download publication 32.01* for applications in PVC systems
- *Download publication 21.02* for information on Style 78A for applications in aluminum systems

**Certifications/Listings:**

- EAC

**Vic-Boltless Coupling and Tool**
**STYLE 791 COUPLING AND 792 TOOL**

*Download publication 06.11 for complete information*

- Provides a secure, tamper resistant, low profile joint
- Installed only with Victaulic® Style 792 tool
- Sizes from 2–8" | DN50–DN200
- Pressures up to 700 psi | 4826 kPa | 48 bar
- *Download publication 32.01* for applications in PVC systems
- *Download publication 21.02* for information on Style 78A for applications in aluminum systems

**Certifications/Listings:**

- UL LISTED
- FM
- EAC

*Download publication 10.01 for Fire Protection Certifications/Listings*

**High Pressure Rigid Coupling**
**STYLE HP-70**

*Download publication 06.12 for complete information*

- Heavy housing for high pressure service
- Sizes from 2–16" | DN50–DN400
- Pressures up to 1000 psi | 6895 kPa | 69 bar

**Certifications/Listings:**

- UL LISTED
- FM
- EAC
- ISO

*Download publication 10.01 for Fire Protection Certifications/Listings*
Original Groove System (OGS)

**Vic-Ring Coupling**

**STYLE 41**

*Download publication 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” | DN750 – DN1650
- Pressures up to 90 psi | 621 kPa | 6 bar
- For AGS Vic-Ring products, see pg. 33
- Regional availability, contact Victaulic for details

**Vic-Ring Coupling**

**STYLE 44**

*Download publication 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” | DN100 – DN1500
- Pressures up to 175 psi | 1207 kPa | 12 bar
- For AGS Vic-Ring products, see pg. 33
- Regional availability, contact Victaulic for details
Vic-Flange Adapter

**STYLE 741**

Download publication 06.06 for complete information

- ANSI Class 125 and 150, Australian Standard Table E, and PN10/16 flanges
- Sizes from 2–24” | DN50–DN600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes 14–24” | DN350–DN600, download publication 20.04 for information on AGS Style W741
- Download publication 32.01 for applications in PVC systems

**Vic-Flange Adapter**

**STYLE 743**

Download publication 06.06 for complete information

- ANSI Class 300 flanges
- Sizes from 2–12” | DN50–DN300
- Pressures up to 720 psi | 4964 kPa | 50 bar
- Download publication 32.01 for applications in PVC systems

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Original Groove System (OGS)

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings

Elbows

No. 10
90° 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. 110-1½D
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

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

Download publication 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° | DN20 – DN600
- For AGS sizes 14 – 60° | DN350 – DN1500, download publication 20.05 for complete information

For coating options, download publication 07.01

victaulic.com
Original Groove System (OGS)

Fittings

**Download publication 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” | DN20 – DN600
- For AGS sizes 14 – 60” | DN350 – DN1500, **download publication 20.05** for complete information

Certifications/Listings:

**Download publication 10.01** for Fire Protection Certifications/Listings

Tees, Crosses, Wyes, and Laterals

- **No. 20** Tee
- **No. 25** Grooved Branch Reducing Tee
- **No. 29M** Tee with Threaded Branch Reducing Tee
- **No. 30** 45° Lateral
- **No. 30-R** 45° Reducing Lateral
- **No. 32** Tee Wye
- **No. 32-R** Reducing Tee Wye
- **No. 33** True Wye
- **No. 35** Cross
Original Groove System (OGS)

Adapters, Nipples, Caps and Plugs

No. 40
Adapter Nipple
(OGS Groove × Thread)

No. 41
ANSI Class 125
Flanged Adapter Nipple

No. 41-DN
Flanged Adapter Nipple

No. 42
Adapter Nipple
(OGS Groove × Bevel)

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

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

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

No. 45RE
PN10/16 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

No. 48
Hose Nipple

No. 50
Concentric Reducer

No. 51
Eccentric Reducer

No. 52
Small Threaded Reducer

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. 80
Female Threaded Adapter

Fittings

Download publication 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” | DN20 – DN600
- For AGS sizes 14 – 60” | DN350 – DN1500, download publication 20.05 for complete information

Certifications/Listings:

UL Listed FM VdS LPCB EAC

Download publication 10.01 for Fire Protection Certifications/Listings

victaulic.com
Original Groove System (OGS)

Mover Expansion Joint

**STYLE 150**

- Slip-type expansion joint providing up to 3” | 76 mm axial end movement
- Sizes from 2 – 6” | DN50–DN150
- Pressures up to 350 psi | 2413 kPa | 24 bar

Download publication 09.04 for complete information

Expansion Joint

**STYLE 155**

- Combination of grooved flexible couplings and short nipples, joined in tandem to provide increased expansion
- Style 155 grooved expansion joints are rated to the working pressure of the coupling used
- Sizes from ¾ – 12” | DN20–DN300
- For AGS sizes 14 – 24” | DN350–DN600, download publication 20.12 for information on Style W155
Vic-300™ MasterSeal™
Butterfly Valve
SERIES 761

Download publication 08.20 for complete information

- Designed for bi-directional, dead end services to full working pressure
- Available without handle, with gear operator, with lever lock handle and memory stop, or with 10-position handle and memory stop
- Multiple seat and disc material options available
- Sizes from 2 – 12" | DN50 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes 14 – 24" | DN350 – DN600, download publication 20.06 for information on Series W761

Butterfly Valve
SERIES 700

Download publication 08.05 for complete information

- Two-piece stem permits narrow disc design for low pressure drop performance
- Supplied standard with aluminum bronze disc, 316 stainless steel optional
- Sizes from 1½ – 6" | DN40 – DN150
- Pressures up to 200 psi | 1379 kPa | 14 bar
Original Groove System (OGS)

High Pressure Vic-Check Valve
SERIES 716H

Download publication 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” | DN50 – DN80
- Pressures up to 365 psi | 2517 kPa | 25 bar
- For AGS sizes 14 – 24” | DN350 – DN600, download publication 20.08 for information on Series W715

Vic-Check Valve
SERIES 716

Download publication 08.08 for complete information

- Features an elastomer encapsulated disc and a welded in nickel seat
- Sizes from 2½ – 12” | 73.0 mm – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes 14 – 24” | DN350 – DN600, download publication 20.08 for information on Series W715

Venturi Check Valve
SERIES 779

Download publication 08.10 for complete information

- Check valve with integrated venturi with pressure taps for accurate measurement (flow measuring kit for differential pressure gauges/meters available)
- Sizes from 4 – 12” | DN100 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
Original Groove System (OGS)

Swing Check Valve
SERIES 712

Download publication 08.11 for complete information

- Designed for use with Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Large access bonnet for easy maintenance
- Available with internal coating for corrosive services
- Sizes from 2 – 4” | DN50 – DN100
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For more information on swing check valves for stainless steel, see pg. 63
- Regional availability, contact Victaulic for details

Swing Check Valve
SERIES 713

Download publication 08.54 for complete information

- High pressure check valve designed for use with Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Large access bonnet for easy maintenance
- Available with internal coating for corrosive services
- Sizes from 2 – 4” | DN50 – DN100
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- Regional availability, contact Victaulic for details

Vic-Ball Valve
SERIES 721

Download publication 08.14 for complete information

- Floating ball with standard port, reduces torque requirements
- Sizes from 4 – 6” | DN100 – DN150
- Pressures up to 800 psi | 5515 kPa | 55 bar

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Original Groove System (OGS)

Vic-Ball Valve
SERIES 726

Download publication 08.23 for complete information
- High pressure standard port NACE-compliant ball valve
- Available without handle, with a lever operator, or a gear operator
- Sizes from 1½ – 6" | DN40 – DN150
- Pressures up to 1000 psi | 6895 kPa | 69 bar

Ball Valve
SERIES 727

Download publication 08.42 for complete information
- High pressure enhanced port NACE-compliant ball valve
- Up to ⅓ better flow than competitive standard port ball valves
- Floating ball with standard port, reduces torque requirements
- Sizes from 2 – 6" | DN50 – DN150
- Pressures up to 1500 psi | 10342 kPa | 103 bar

Brass Body Ball Valve — Threaded
SERIES 722

Download publication 08.15 for complete information
- Standard port, female threaded end valve constructed from forged brass
- Sizes from ¼ – 2" | DN8 – DN50
- Pressures up to 600 psi | 4137 kPa | 41 bar

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
**Original Groove System (OGS)**

**Vic-Plug Valve**

**SERIES 377**

*Download publication 08.12 for complete information*

- Only eccentric grooved end plug valve made specifically for throttling services
- Available without handle, with lever operator or gear operator
- Sizes from 3 – 12” | DN80 – DN300
- Pressures up to 175 psi | 1207 kPa | 12 bar

**Delta-Y Valve Assembly**

**STYLE DLY**

*Download publication 07.08 for complete information*

- Assembles with Style 107N rigid couplings, Series 761 Vic-300™ MasterSeal™ butterfly valves, and cast fittings
- Ideal for bulk cement/barite systems commonly found on offshore drilling platforms
- Sizes from 5 – 6” | 141.3 mm – DN150
- Pressures up to 300 psi | 2068 kPa | 21 bar

**Knife Gate Valve**

**SERIES 795**

*Download publication 08.25 for complete information*

- Designed for fluid lines containing solids and abrasive materials
- All wear parts can be replaced in-line without removing the valve from the pipeline
- Utilizes Installation-Ready™ technology to eliminate loose parts
- Manual, hydraulic, pneumatic, and electric actuation available
- Sizes from 3 – 12” | DN80 – DN300
- Pressures up to 150 psi | 1035 kPa | 10 bar

**Certifications/Listings:**

*Download publication 10.01 for Fire Protection Certifications/Listings*
Original Groove System (OGS)

OS&Y Gate Valve
SERIES 771M

Download publication 08.45 for complete information

- Available as groove x groove or groove x flange
- For On/Off service only
- Sizes from 2½ – 12” | 73.0 mm – DN300
- Pressures up to 250 psi | 1724 kPa | 17 bar

Three Port Diverter
SERIES 723

Download publication 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 without handle, with lever operator or gear operator
- Available in 2” | DN50
- Pressures up to 600 psi | 4137 kPa | 41 bar

Diverter Valve
SERIES 725S

Download publication 08.41 for complete information

- Intended for backfill and flush water diversion in backfill mining operations
- May be operated under pressure to dump backfill in the event of a blockage
- Stainless steel wetted surfaces
- Manual, hydraulic, pneumatic, and electric actuation available
- Available in 4 – 8” | DN100 – DN200
- Pressures up to 1500 psi | 10342 kPa | 103 bar

Certifications/Listings:
This product is not agency listed for fire protection service. Download publication 10.01 for Fire Protection Certifications/Listings.

Certifications/Listings:
Download publication 10.92 for fire service products.
Hydraulic control valves are devices capable of controlling variables such as pressure, flow, or level. Optional configurations include: on/off, pressure reducing, pressure relief, pressure sustaining, and flow control (customized solutions can include combinations of the above functions).

- Sizes from 1½ – 6" | DN40 – DN150
- Pressures up to 145 psi | 1000 kPa | 10 bar
- Regional availability, contact Victaulic for details

Hydraulic control valves are devices capable of controlling variables such as pressure, flow, or level. Optional configurations include: on/off, pressure reducing, pressure relief, pressure sustaining, and flow control (customized solutions can include combinations of the above functions).

- Sizes from 1½ – 48" | DN40 – DN1200
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Regional availability, contact Victaulic for details

Hydraulic control valves are devices capable of controlling variables such as pressure, flow, or level. Optional configurations include: on/off, pressure reducing, pressure relief, pressure sustaining, and flow control (customized solutions can include combinations of the above functions).

- Sizes from 1½ – 20" | DN40 – DN500
- Pressures up to 600 psi | 4137 kPa | 41 bar
- Regional availability, contact Victaulic for details
Automatic Air Release Valve
BERMAD SERIES A30 | VICTAULIC® SERIES 9A3

- Automatic air release valves allow efficient release of air bubbles from pressurized pipelines
- Body material: Glass reinforced nylon
- Sizes from ¾ – 1’ | DN20 – DN25
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Temperatures up to 140°F | 60°C
- Regional availability, contact Victaulic for details

Automatic Air Release Valve
BERMAD SERIES A71 | VICTAULIC® SERIES 9A7

- Automatic air release valves allow efficient release of air bubbles from pressurized pipelines
- Body material: Type 316 stainless steel
- Sizes from ¾ – 1’ | DN20 – DN25
- Pressures up to 350 psi | 2413 kPa | 24 bar
- Temperatures up to 140°F | 60°C
- Regional availability, contact Victaulic for details

Combination Air Valve
BERMAD SERIES C30 | VICTAULIC® SERIES 9C3

- Combination air release valves release air bubbles from pressurized pipelines (air release valve), while evacuating air during pipeline filling and draining (air/vacuum valve)
- Body material: Glass reinforced nylon
- Sizes from ¾ – 1’ | DN20 – DN25
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Temperatures up to 140°F | 60°C
- Regional availability, contact Victaulic for details

Download publication Engineering A30 for complete information

Download publication Engineering A71 for complete information

Download publication Engineering C30 for complete information
Combination Air Valve
BERMAD SERIES C50 | VICTAULIC® SERIES 9C5

Download publication Engineering C50 for complete information

- Combination air release valves release air bubbles from pressurized pipelines (air release valve), while evacuating air during pipeline filling and draining (air/vacuum valve)
- Body material: Glass reinforced nylon
- Sizes from 2 – 4” | DN50 – DN100
- Pressures up to 150 psi | 1034 kPa | 10 bar
- Temperatures up to 140°F | 60°C
- Regional availability, contact Victaulic for details

Combination Air Valve
BERMAD SERIES C70 | VICTAULIC® SERIES 9C7

Download publication Engineering C70 for complete information

- Combination air release valves release air bubbles from pressurized pipelines (air release valve), while evacuating air during pipeline filling and draining (air/vacuum valve)
- Body material: Ductile iron (standard)
- Sizes from 2 – 8” | DN50 – DN200
- Pressures up to 580 psi | 3999 kPa | 40 bar
- Temperatures up to 140°F | 60°C
- Regional availability, contact Victaulic for details
Original Groove System (OGS)

**Suction Diffuser**
SERIES 731-D

*Download publication 09.20 for complete information*

- Allows building up at a 90° angle from the pump, saving valuable space in the mechanical room while still protecting the pump against cavitation
- Available flanged connections: ANSI Class 150, Australian Standard Table E, PN10/16, GB, and JIS 10K
- Sizes from 3 – 12” | DN80 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes 14 – 24” | DN350 – DN600, download publication 20.20 for information on Series W731-D

**Vic-Strainer Tee Type**
SERIES 730

*Download publication 09.02 for complete information*

- Lighter than flanged Y-type strainers and provides straight-through flow for lower pressure drop
- Sizes from 1½ – 12” | DN40 – DN300
- Pressures up to 750 psi | 5171 kPa | 52 bar
- For AGS sizes 14 – 24” | DN350 – DN600, download publication 20.11 for information on Series W730

**Vic-Strainer Wye Type**
SERIES 732

*Download publication 09.03 for complete information*

- Provides straight-through flow for lower pressure drop
- Sizes from 2 – 12” | DN50 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Available in limited sizes for air handling units
- For AGS sizes 14 – 24” | DN350 – DN600, download publication 20.19 for information on Series W732

Certifications/Listings:

[![CE](image)](image)

*Download publication 10.01 for Fire Protection Certifications/Listings*
**Original Groove System (OGS)**

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**Vic-Header**

No. 26

Download publication 07.11 for complete information

- An outlet header for any mechanical room application
- Available with Victaulic® OGS and AGS grooved ends
- Sizes from ¾ – 24” | DN20 – DN600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

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**Vibration Isolation Air Handling Unit Drop**

SERIES 385

Download publication 102.15 for complete information

- Provides hook-ups for isolation, straining, balancing and draining
- Swing joint solves misaligned coil challenges
- Single and double supply and return configurations
- Sizes from 2 x 2” through 6 x 4” | DN50 x DN50 through DN150 x DN100
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

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**Pressure Reducing Valve Station**

SERIES 386

Download publication 102.16 for complete information

- Reduces and controls potable water system pressure to specified safe levels, independent of upstream pressure and flow variations
- Six standard configurations to accommodate various system flow rates, pressure reduction ratios, redundancy, and pressure safety options
- Sizes from 2 x 1½” through 6 x 2” | DN50 x DN40 through DN150 x DN50
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

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**Certifications/Listings:**

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

victaulic.com
Original Groove System (OGS)

Inlet Vibration Isolation Pump Drop
- Includes flow control, vibration-controlling flexible couplings, access ports for gauges and thermowells, and an integral flanged or grooved end pump connection
- Sizes from 3–12” | DN80–DN300
- Rated to the working pressure of the ANSI Class 150, PN10/16, Australian Table E or JIS 10K flange connection
- Regional availability, contact Victaulic for details

Suction Diffuser Pump Drop

Painted Carbon Steel Pipe
- Series 381/381G (North America) Download publication 102.11
- Series 391 (Rest of World) Download publication 102.21
- Series 331 (Hong Kong) Download publication 102.31

Galvanized Carbon Steel Pipe
- Series 331 (Hong Kong) Download publication 102.31
- Series 334 (Taiwan) Download publication 102.34
- Series 337 (Korea) Download publication 102.37

Strainer Pump Drop

Painted Carbon Steel Pipe (Vertical and Horizontal Installations)
- Series 382/382G (North America) Download publication 102.12
- Series 392 (Rest of World) Download publication 102.22
- Series 332 (Hong Kong) Download publication 102.32

Galvanized Carbon Steel Pipe (Vertical and Horizontal Installations)
- Series 332 (Hong Kong) Download publication 102.32
Outlet Vibration Isolation Pump Drop

- Includes flow control, vibration-controlling flexible couplings, access ports for gauges and thermowells, and an integral flanged or grooved end pump connection
- Sizes from 3 – 12” | DN80 – DN300
- Rated to the working pressure of the ANSI Class 150, PN10/16, Australian Table E or JIS 10K flange connection
- Regional availability, contact Victaulic for details

Discharge Pump Drop

Painted Carbon Steel Pipe
(Vertical and Horizontal Installations)

- **Series 380/380G**
  (North America)
  [Download publication 102.10]
- **Series 390**
  (Rest of World)
  [Download publication 102.22]
- **Series 330**
  (Hong Kong)
  [Download publication 102.30]

Galvanized Carbon Steel Pipe
(Vertical Installations)

- **Series 330**
  (Hong Kong)
  [Download publication 102.30]
- **Series 333**
  (Taiwan)
  [Download publication 102.33]
- **Series 336**
  (Korea)
  [Download publication 102.36]

Discharge Pump Drop with Balancing Valve

Painted Carbon Steel Pipe
(Vertical and Horizontal Installations)

- **Series 383/383G**
  (North America)
  [Download publication 102.13]
Original Groove System (OGS)

**EndSeal™ System**

- Download publication **06.13** for STYLE HP-70ES coupling
- Download publication **07.03** for 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” | DN50 – DN300 and fitting sizes from 2 – 6” | DN50 – DN150
- Pressures up to 2500 psi | 17237 kPa | 172 bar
- Regional availability, contact Victaulic for details

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**No. 62ES**
90° Elbow

**No. 63ES**
45° Elbow

**No. 64ES**
Tee

**No. 35ES**
Cross

**No. 22ES**
Header Tee
Original Groove System (OGS)

High Pressure Double Grooved Coupling

**STYLE 808**

*Download publication 15.01 for complete information*

- Double-bolted coupling for use with Schedule 80 or heavier steel pipe
- For installation on pipe ends with double cut grooves, *download publication 25.04* for complete information
- Sizes from 6 – 12" | DN150 – DN300
- Pressures up to 4000 psi | 27579 kPa | 275 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:

EAC

High Pressure Ring Coupling

**STYLE 809N**

*Download publication 15.03 for complete information*

- Designed for high pressure applications, hydraulic applications, and abrasive services
- Coupling engages directly onto restraint rings (supplied with coupling) welded to the O.D. of the pipe
- For schedule 80 or heavier carbon steel pipe
- Sizes from 4 – 10" | DN100 – DN250
- Pressures up to 3000 psi | 20684 kPa | 206 bar

Composite Flexible Coupling

**STYLE 171**

*Download publication 06.22 for complete information*

- Flexible pipe joint which allows for expansion, contraction and deflection
- For corrosive applications such as reverse osmosis systems
- For use on Victaulic PVC pipe utilizing Victaulic OGS roll or cut groove profile
- Sizes from 1½ – 4" | DN40 – DN100
- Pressures up to 150 psi | 1034 kPa | 10 bar
- For stainless steel and FRP applications, contact Victaulic
Original Groove System (OGS)

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

Download publication 07.07 for complete information

• 1½D and 3D elbows designed for \( \frac{1}{4} \)” \( | \) 6 mm extra lining resulting in up to three times the service life when compared to standard rubber-lined fittings

• Sizes from 3 – 12” \( | \) DN80 – DN300

• Style XL77 flexible couplings for pipe-to-fitting connections

• Style XL79 flexible couplings for fitting-to-fitting connections

No. XL100
1½D
90° Elbow

No. XL100
3D
90° Elbow

No. XL110
1½D
45° Elbow

No. XL110
3D
45° Elbow

Expansion Joint Coupling

STYLE 152A

Download publication 09.15 for complete information

• Large diameter coupling for pulverized coal/limestone lines with 4° of deflection capability

• Sizes from 10 – 30” \( | \) DN250 – DN750, and 780 mm

• Pressures up to 50 psi \( | \) 345 kPa \( | \) 3 bar

• Regional availability, contact Victaulic for details
Original Groove System (OGS)

Coupling for Fiberglass Reinforced Plastic Pipe
STYLE 296-A

Download publication 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" | DN25 – DN300
- Pressures up to 150 psi | 1034 kPa | 10 bar

Non-Restrained Flexible Coupling for Fiberglass Reinforced Plastic Pipe
STYLE 229S

Download publication 60.16 for complete information

- Designed for FRP odor control piping systems
- Can be installed in any weather
- No curing time required
- Sizes from 6 – 54" | DN150 – DN1350
- Pressures up to 25 psi | 172 kPa | 1.7 bar
Original Groove System (OGS)

The Victaulic® grooved aluminum system is the most versatile, economical, and reliable aluminum piping system available. Up to three times faster to install than a welded system, and more dependable than a threaded or flanged assembly, the Victaulic approach reduces risk and total installed cost. The Victaulic grooved aluminum system provides considerable weight savings and corrosion resistance.

Flexible Aluminum Coupling
STYLE 77A

**Download publication 21.01 for complete information**

- Flexible pipe joint which allows for expansion, contraction and deflection
- Sizes from 1 – 12” | DN25 – DN300
- Pressures up to 500 psi | 3447 kPa | 34 bar
- **Download publication 06.04** for information on Style 77 for applications in carbon steel systems

Snap-Joint™ Aluminum Coupling
STYLE 78A

**Download publication 21.02 for complete information**

- Designed for quick disconnect service
- Sizes 2” | DN50 and 10” | DN250
- Pressures up to 300 psi | 2068 kPa | 21 bar
- **Download publication 06.09** for information on Style 78 for applications in carbon steel systems
Original Groove System (OGS)

Aluminum Fittings

Download publication 21.03 for complete information

- Standard fitting pressure ratings conform to ratings of installed coupling
- Sizes from 1 – 8’ | DN25–DN200

No. 10-A
90º Elbow

No. 11-A
45º Elbow

No. 20-A
Tee

No. 40-A
Adapter Nipple (Groove × Thread)

No. 42-A
Adapter Nipple (Groove × Bevel)

No. 43-A
Adapter Nipple (Groove × Groove)

No. 50-A
Concentric Reducer

No. 60-A
Cap
Victaulic offers a comprehensive portfolio of Advanced Groove System (AGS) couplings for systems 14” – 78” | DN350 – DN1950 and a full range of 14” – 60” | DN350 – DN1500 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. 

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

### Couplings

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AGS Rigid Coupling
STYLE W07

**Download publication 20.02 for complete information**

- First flat-pad, metal-to-metal, rigid coupling to be offered in this size range
- Sizes from 14 – 50" | DN350 – DN1250
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For original groove sizes 1 – 12" | DN25 – DN300 (Style 07), [download publication 06.02](#);
For original groove featuring Installation-Ready™ technology sizes 2 – 12” | DN50 – DN300 (Style 107N), [download publication 06.23](#)

AGS Flexible Coupling
STYLE W77

**Download publication 20.03 for complete information**

- Unique wedge-shaped key profile increases allowable pipe end separation
- Sizes from 14 – 78" | DN350 – DN1950
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For original groove sizes ¾ – 24" | DN20 – DN600 (Style 77), [download publication 06.04](#);
For original groove couplings featuring Installation-Ready™ technology sizes 2 – 8” | DN50 – DN200 (Style 177N), [download publication 06.24](#)

AGS Rigid Coupling
STYLE W89

**Download publication 20.15 for complete information**

- Wedge-shaped coupling housing keys fully engage the Victaulic AGS grooves to provide a rigid joint
- Galvanized coated ductile iron coupling
- Sizes from 14 – 24" | DN350 – DN600
- Pressures up to 700 psi | 4830 kPa | 48 bar
- For original groove sizes 2 – 12” | DN50 – DN300 (Style 89), [download publication 17.24](#)
AGS Rigid Coupling with *Vic-Ring*  
STYLE W07

**Download publication 16.11 for complete information**

- Coupling installs on the supplied ring to maintain full pipe wall thickness on abrasive and/or corrosive systems
- Sizes from 14 – 50" | DN350 – DN1250
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For OGS *Vic-Ring* products, see pg. 6
- Regional availability, contact [Victaulic](https://www.victaulic.com) for details

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AGS Flexible Coupling with *Vic-Ring*  
STYLE W77

**Download publication 16.12 for complete information**

- Coupling installs on the supplied ring to maintain full pipe wall thickness on abrasive and/or corrosive systems
- Sizes from 14 – 78" | DN350 – DN1950
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For OGS *Vic-Ring* products, see pg. 6
- Regional availability, contact [Victaulic](https://www.victaulic.com) for details

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AGS Rigid Coupling with *Vic-Ring*  
STYLE W89

**Download publication 16.15 for complete information**

- Coupling installs on the supplied ring to maintain full pipe wall thickness on abrasive and/or corrosive systems
- Galvanized coated ductile iron coupling
- Sizes from 14 – 24" | DN350 – DN600
- Pressures up to 700 psi | 4830 kPa | 48 bar
- Regional availability, contact [Victaulic](https://www.victaulic.com) for details
AGS Fittings

Download publication 20.05 for complete information

- Sizes from 14 – 60” | DN350 – DN1500
- Fitting pressure ratings are equivalent to the maximum allowable working pressure (MAWP) of joints installed with Victaulic® AGS couplings
- For original groove fittings, download publication 07.01 for more information

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings

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. W25 Reducing Tee
No. W30 45° Lateral
No. W30-R 45° Reducing Lateral
No. W33 True Wye
No. W35 Cross

No. W42 Adapter Nipple (AGS Groove × Bevel)
No. W43 Adapter Nipple (AGS Groove × AGS Groove)
No. W45R Flanged Adapter Nipple
No. W49 Adapter Nipple (AGS Groove × OGS Groove)
No. W50 Concentric Reducer
No. W51 Eccentric Reducer
No. W60 Cap

victaulic.com
AGS Stainless Steel Schedule 10S Fittings

**Download publication 17.05 for complete information**

- Offering includes elbows, tees, adapter nipples, caps, eccentric and concentric reducers
- Sizes from 14 – 24" | DN350 – DN600
- Fitting pressure ratings are equivalent to the maximum allowable working pressure (MAWP) of joints installed with Victaulic® AGS couplings
- For original groove sizes ¾ – 12" | DN20 – DN300, **download publication 17.16** for more information on stainless steel fittings

AGS Vic-Flange Adapter

**STYLE W741**

**Download publication 20.04 for complete information**

- Designed for directly incorporating flanged components with ANSI Class 125-150 bolt hole patterns
- Sizes from 14 – 24" | DN350 – DN600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes 2 – 12" | DN50 – DN300, **download publication 06.06** for information on Style 741

AGS Expansion Joint

**STYLE W155**

**Download publication 20.12 for complete information**

- Combination of Style W77 AGS couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from 14 – 24" | DN350 – DN600
- For original groove sizes ¾ – 12" | DN20 – DN300, **download publication 09.05** for information on Style 155
AGS Expansion Barrel
STYLE W256

Download publication 09.16 for complete information

• Provides up to 42" | 1067 mm of in-line movement
• Designed for water and/or slurry services
• Sizes from 24–42" | DN600–DN1050
• Pressures up to 300 psi | 2068 kPa | 21 bar
• Regional availability, contact Victaulic for details

AGS Dynamic Movement Joint
STYLE W257

Download publication 20.16 for complete information

• Provides up to 4" | 102 mm of dynamic movement including differential settlement, seismic movement, and thermal movement
• Sizes from 14–78" | DN350–DN1950
• Working pressure is equal to the Style W77 coupling on equivalent wall thickness pipe, download publication 20.03 for complete information
• Regional availability, contact Victaulic for details

AGS Vic-300™ Butterfly Valve
SERIES W761

Download publication 20.06 for complete information

• Offers an easily installed choice to cumbersome, multi-bolt wafer or lug-type flanged valves
• Sizes from 14–24" | DN350–DN600
• Pressures up to 300 psi | 2068 kPa | 21 bar
• For original groove sizes 2–12" | DN50–DN300, download publication 08.20 for information on Series 761

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings

victaulic.com
AGS Butterfly Valve
SERIES W709

Download publication 20.07 for complete information

- Valve design, materials and testing conform to the requirements of AWWA C504
- Sizes from 26–48" | DN650–DN1500
- Pressures up to 150 psi | 1034 kPa | 10 bar

AGS Butterfly Valve
SERIES W719

Download publication 23.19 for complete information

- Valve design, materials and testing conform to the requirements of AWWA C504
- Sizes from 14–60" | DN350–DN1500
- Pressure classes conforming to AWWA Class 250B to 48" | DN1200 and 150B for 48" | DN1200 and above

AGS Vic-Check Double Disc Valve
SERIES W715

Download publication 20.08 for complete information

- Utilizes a spring-assisted, double disc design that achieves drip tight sealing
- Can be installed in both horizontal or vertical (flow up) positions
- Sizes from 14–24" | DN350–DN600
- Pressures up to 230 psi | 1586 kPa | 16 bar
- For original groove sizes 2–12" | DN50–DN300, download publication 08.08 for information on Series 716H/716 or download publication 08.10 for information on Series 779

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
AGS Suction Diffuser
SERIES W731-D

**Download publication 20.20 for complete information**

- Allows building up at a 90° angle from the pump saving valuable space in the mechanical room while still protecting the pump against cavitation
- Flanges may be machined to match most global (ANSI, DIN, GB, JIS, and AS-E) flange bolt hole patterns within the diffuser pressure rating
- Sizes from 14 – 24" | DN350 – DN600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes 1½ – 12" | DN40 – DN300, [download publication 09.20](#) for information on Series 731-D

AGS Vic-Strainer Tee Type
SERIES W730

**Download publication 20.11 for complete information**

- Lighter than flanged Y-type strainers and provides straight-through flow for lower pressure drop
- Sizes from 14 – 24" | DN350 – DN600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes 1½ – 12" | DN40 – DN300, [download publication 09.02](#) for information on Series 730

AGS Vic-Strainer Wye Type
SERIES W732

**Download publication 20.19 for complete information**

- Provides straight-through flow for lower pressure drop
- Sizes from 14 – 18" | DN350 – DN450
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes 2 – 12" | DN50 – DN300, [download publication 09.03](#) for information on Series 732

Certifications/Listings:

[Download publication 10.01](#) for Fire Protection Certifications/Listings

victaulic.com
Victaulic® Bolted Split-Sleeve Products (VBSP)

Victaulic offers a variety of 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.

VBSP 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.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

**Couplings**

- Non-Restrained Flexible Coupling for Fiberglass Reinforced Plastic Pipe (Style 229S) page 28
- Non-Restrained Flexible Coupling for Carbon Steel Pipe (Style 230) page 40
- Non-Restrained Flexible Coupling for Stainless Steel Pipe (Style 230S) page 40
- Non-Restrained Flexible Expansion Coupling for Carbon Steel Pipe (Style 231) page 40
- Non-Restrained Flexible Expansion Coupling for Stainless Steel Pipe (Style 231S) page 41
- Restrained Coupling for Carbon Steel Pipe (Style 232) page 41
- Restrained Coupling for Stainless Steel Pipe (Style 232S) page 41

**Expansion Joint**

- Stainless Steel Bellow Expansion Joint (Style 240S) page 44

**Tools**

- Manual and Hydraulic Closure Tools page 146
Non-Restrained Flexible Coupling for Carbon Steel Pipe
STYLE 230

Download publication 60.01 for complete information

- Non-restrained flexible pipe joint for water and wastewater pipelines
- Up to ½" | 13 mm intermittent axial movement
- Satisfies the requirements of AWWA C227
- Sizes from 8 – 144" | DN200 – DN3600
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Regional availability, contact Victaulic for details

Non-Restrained Flexible Coupling for Stainless Steel Pipe
STYLE 230S

Download publication 60.02 for complete information

- Non-restrained flexible pipe joint used where corrosion resistance is required
- Up to ½" | 13 mm intermittent axial movement
- Satisfies the requirements of AWWA C227
- Sizes from 3 – 96" | DN80 – DN2400
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Non-Restrained Flexible Expansion Coupling for Carbon Steel Pipe
STYLE 231

Download publication 60.03 for complete information

- Non-restrained flexible expansion joint provides up to 4" | 102 mm of axial movement
- Satisfies the requirements of AWWA C227
- Sizes from 16 – 144" | DN400 – DN3600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details
Restrained Flexible Coupling for Carbon Steel Pipe
STYLE 232

Download publication 60.05 for complete information

- Restrained flexible joint for use on water, wastewater, force main and penstock piping
- Satisfies the requirements of AWWA C227
- Sizes from 8 – 144” | DN200 – DN3600
- Pressures up to 400 psi | 2758 kPa | 21 bar
- Regional availability, contact Victaulic for details

Restrained Flexible Coupling for Stainless Steel Pipe
STYLE 232S

Download publication 60.05 for complete information

- Restrained flexible joint for use where corrosion resistance is required
- Satisfies the requirements of AWWA C227
- Sizes from 3 – 96” | DN80 – DN2400
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings
Restrained Flexible Coupling for Dynamic Joint Deflection on Carbon Steel Pipe
STYLE 233

Download publication 60.07 for complete information

- Restrained flexible joint that allows for dynamic (in-service) deflection
- Satisfies the requirements of AWWA C227
- Sizes from 8 – 144” | DN200 – DN3600
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Restrained Flexible Coupling for Dynamic Joint Deflection on Stainless Steel Pipe
STYLE 233S

Download publication 60.08 for complete information

- Restrained flexible joint for use where corrosion resistance is required
- Designed to allow for dynamic (in-service) deflection and thrust restraint at the joint
- Satisfies the requirements of AWWA C227
- Sizes from 3 – 96” | DN80 – DN2400
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details
Restrained Flexible Single-Gasket Coupling for Carbon Steel Pipe
STYLE 234

Download publication 60.09 for complete information

- Designed for use on water transmission, force mains and penstock lines
- Sizes from 8 – 120" | DN200 – DN3000
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Restrained Flexible Single-Gasket Coupling for Stainless Steel Pipe
STYLE 234S

Download publication 60.10 for complete information

- Ideal for field joint connections requiring flexibility and thrust restraint
- Sizes from 8 – 60" | DN200 – DN1500
- Pressures up to 200 psi | 1379 kPa | 14 bar
- Regional availability, contact Victaulic for details
Stainless Steel Bellow Expansion Joint
STYLE 240S

Download publication 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” | DN80 – DN2400
- Regional availability, contact Victaulic for details
Hole Cut System

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 outside 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.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

### Outlets and Couplings

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### Tools

- Vic-Tap Hole Cutting Tools | 137–138
**Mechanical-T Bolted Branch Outlet and Cross Assemblies**

**STYLE 920/920N**

*Download publication 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 tee or cross outlet with female threaded or grooved ends
- Sizes from 2 – 8” | DN50 – DN200
- Pressures up to 500 psi | 3447 kPa | 34 bar

**Outlet Coupling**

**STYLE 72**

*Download publication 06.10 for complete information*

- Joining device to provide an integral reducing outlet
- Sizes from 1½ – 6” | DN40 – DN150
- Pressures up to 500 psi | 3447 kPa | 34 bar
**Hole Cut System**

### Strapless Outlet
**STYLE 923**

**Download publication 11.05 for complete information**

- Provides a fast, easy connection, combining the features of a thermowell and strapless mechanical outlet
- For use on 4’ | DN100 and larger steel pipe (specify pipe size when ordering)
- ½” | DN15 or ¾” | DN20 outlet sizes available
- Pressures up to 300 psi | 2068 kPa | 21 bar

### Strapless Thermometer Outlet
**STYLE 924**

**Download publication 11.06 for complete information**

- Provides a fast, easy connection, combining the features of a thermowell and strapless mechanical outlet
- For use on 4’ | DN100 and larger steel pipe (specify pipe size when ordering)
- Features a ¾” female NPT or a 1¼” -18 UNEF female outlet size
- Pressures up to 300 psi | 2068 kPa | 21 bar

### Mechanical-T Spigot Outlet
**STYLE 926**

**Download publication 11.07 for complete information**

- Designed to provide an outlet connection on HDPE, steel, and ductile iron pipe materials in IPS, ISO, and DIPS pipe sizes
- 4” outlets available for 10 – 32” IPS pipe diameters
- 6” outlets available for 16 – 48” IPS pipe diameters
- 114.3 mm outlets available for 250 – 800 mm ISO pipe diameters
- 168.3 mm outlets available for 400 – 1200 mm ISO pipe diameters
Plain End System for Carbon Steel

**QuickVic™ SD Installation-Ready™ System**

The Victaulic® QuickVic™ SD Installation-Ready™ System is the most efficient and economical way to join carbon steel piping systems sized 2’ | DN50 and down. It offers a significant total installed cost savings when compared to current pipe materials and installation methods used, including carbon steel thread or press and copper press or sweat. Available in sizes ½ – 2’ | DN15 – DN50, the products can be used on Schedules 10 through 80 carbon steel pipe and have a maximum working pressure and temperature rating of 300 psi | 2068 kPa | 21 bar and 250°F | 120°C (EPDM gasket).

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**Plain End System**

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. 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.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

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**Couplings**

- QuickVic SD Installation-Ready Rigid Coupling (Style P07)
- QuickVic SD Installation-Ready Slip Coupling (Style P08)
- QuickVic SD Installation-Ready Reducing Coupling (Style P50)

**Fittings**

- QuickVic SD Installation-Ready Fittings
- QuickVic SD Threaded Adapters
- QuickVic SD Dielectric Adapters

**Valve**

- QuickVic SD Ball Valve (Series P89)

**Tool**

- QuickVic SD Cut and Mark Tool (PC3110)

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**Roust-A-Bout Plain End Coupling (Style 99)**

**Plain End Fittings**
QuickVic™ SD Installation-Ready™
Rigid Coupling
STYLE P07

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Sizes from ½ – 2” | DN15 – DN50
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

QuickVic™ SD Installation-Ready™
Slip Coupling
STYLE P08

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Sizes from ½ – 2” | DN15 – DN50
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

QuickVic™ SD Installation-Ready™
Reducing Coupling
STYLE P50

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Sizes from ¾ × ½” through 2 × 1½” | DN20 × DN15 through DN50 × DN40
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details
QuickVic™ SD Installation-Ready™ Fittings

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Ready to install fittings
- Sizes from ½ – 2" | DN15 – DN50
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

- No. P10 90° Elbow
- No. P11 45° Elbow
- No. P20 Tee
- No. P60 Cap
QuickVic™ SD Threaded Adapters

NO. P40 THREADED ADAPTER
(MALE NPT × PLAIN END)
NO. P80 THREADED ADAPTER
(FEMALE NPT × PLAIN END)

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Compatible with QuickVic™ SD couplings, fittings and valve
- Sizes from ½ – 1¼” | DN15 – DN32
- Regional availability, contact Victaulic for details

QuickVic™ SD Dielectric Adapters

NO. P47 STRAIGHT DIELECTRIC ADAPTER
(SWEAT × PLAIN END)
NO. P97 90° ELBOW DIELECTRIC ADAPTER
(SWEAT × PLAIN END)

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Compatible with QuickVic SD couplings, fittings and valve
- Sizes from ½ – 1¼” | DN15 – DN32
- Regional availability, contact Victaulic for details

QuickVic™ SD Ball Valve

SERIES P89

Download publication 34.01 for complete information

- For use on plain end Schedules 10 through 80 carbon steel pipe
- Sizes from ½ – 2” | DN15 – DN50
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

victaulic.com
Plain End System for Carbon Steel

Roust-A-Bout Plain End Coupling
STYLE 99

Download publication 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” | DN25 – DN450
- Pressures up to 750 psi | 5171 kPa | 52 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Plain End System for Carbon Steel

Plain End Fittings

Download publication 14.04 for complete information

- Provides change of direction to plain end piping systems
- Ready to install fitting
- Compatible only with Style 99 Roust-A-Bout coupling
- Sizes from 1 – 12” | DN25 – DN300
- Fitting pressure rating conforms to pressure rating of Style 99 Roust-A-Bout couplings
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings

victaulic.com
Stainless Steel System

Original Groove System

The Victaulic® Original Grooved System (OGS) for Stainless Steel features a full line of couplings, fittings and valves designed for use on ¾ – 24" | DN20 – DN600 Type 304/304L and 316/316L stainless steel pipe. Performance varies by product, see Victaulic product publications for more information.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

### Couplings

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**Advanced Groove System**

Victaulic offers a comprehensive portfolio of Advanced Groove System (AGS) couplings for systems 14 – 78” | DN350 – DN1950 and AGS fittings for systems 14 – 24” | DN350 – DN600. 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.

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)

**Vic-Press™ System**

The revolutionary Victaulic® Vic-Press™ for Schedule 10S system provides quick, easy and safe installation and maintenance for off-the-shelf ASTM A-312 stainless steel pipe. 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.

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)

**StrengThin™ System**

The Victaulic StrengThin™ system, ideally suited for high-pressure SWRO applications, delivers weld-like load carrying capabilities on thin wall stainless steel pipe. The system accommodates pressures up to 1200 psi | 8274 kPa | 83 bar, and is designed with duplex stainless steel to provide corrosion resistance. The system, consisting of couplings, fittings, and valves, is specifically designed for use on Victaulic’s proprietary StrengThin groove profile, and is available in 2 – 20” | DN50 – DN500.

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)
Stainless Steel System

**StrengThin™ 100 System**

The Victaulic® StrengThin™ 100 system is specifically designed to perform up to 232 psi | 1600 kPa | 16 bar on thin wall Type 304/316 stainless steel pipe. Exclusively for use with couplings, fittings, valves, accessories and pipe which feature ends formed with Victaulic’s proprietary StrengThin 100 groove profile, the system is available in sizes 2–12" | DN50–DN300, and it eliminates the need for pickling or passivating the joint and for a fire watch.

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

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**High Performance System for Stainless Steel**

Victaulic has expanded its high performance line for use on stainless steel pipe. Available in sizes 2–8" | DN50–DN200, the system includes the Style 870 rigid coupling, a full line of fittings, roll grooving tools, and roll sets that eliminate the need to weld steam systems up to 200 psi | 1379 kPa | 14 bar.

**Download publication 25.12** for OGS-200 Roll Groove Specifications

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**To learn more visit** [strengthin100.com](http://strengthin100.com)

**To learn more visit** [victaulicsteam.com](http://victaulicsteam.com)
Stainless Steel System

Type 316 Rigid Coupling
STYLE 489

Download publication 17.25 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Designed for use with fittings and valves featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 1½ – 12" | DN40 – DN300
- Pressures up to 600 psi | 4137 kPa | 41 bar
- For the duplex stainless steel coupling, download publication 17.33 for Style 489DX

Rigid Coupling for Stainless Steel
STYLE 89

Download publication 17.24 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Designed for use with fittings and valves featuring Victaulic Original Groove System (OGS) grooved ends for fast installation
- Galvanized coated ductile iron coupling
- Sizes from 2 – 12" | DN50 – DN300
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- For the duplex stainless steel coupling, download publication 17.33 for Style 489DX

Duplex Rigid Coupling
STYLE 489DX

Download publication 17.33 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Designed for use with fittings and valves featuring Victaulic Original Groove System (OGS) grooved ends for fast installation
- Sizes from 2 – 12" | DN50 – DN300
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, download publication 17.25 for Style 489

victaulic.com
Type 316 Flexible Coupling
STYLE 77S

Download publication 17.03 for complete information

- Provides a rugged mechanical joint for grooved end stainless steel piping systems
- Designed for use with fittings and valves featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 8–18’ | DN200–DN450
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For the duplex coupling in sizes ¾–6’ | DN20–DN150, download publication 17.20 for information on Style 77DX

Type 316 Lightweight Flexible Coupling
STYLE 475

Download publication 17.14 for complete information

- Unique coupling design permits assembly by removing one nut/bolt and scissoring housing over gasket
- Designed for use with fittings and valves featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 1–4’ | DN25–DN125 | 165.1 mm
- Pressures up to 500 psi | 3447 kPa | 34 bar
- For the duplex coupling, download publication 17.34 for information on Style 77S

Duplex Flexible Coupling
STYLE 77DX

Download publication 17.20 for complete information

- Designed to provide a rugged mechanical joint for roll grooved stainless steel systems
- Designed for use with fittings and valves featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from ¾–6’ | DN20–DN150
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Optional super duplex stainless steel housing
- For Type 316 stainless steel coupling in sizes 8–18’ | DN200–DN450, download publication 17.03 for information on Style 77S
**Duplex Lightweight Flexible Coupling**

**STYLE 475DX**

*Download publication 17.34 for complete information*

- Unique coupling design permits assembly by removing one nut/bolt and scissoring housing over gasket
- Designed for use with fittings and valves featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 1 – 4” | DN25 – DN100
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, *download publication 17.14* for Style 475

**Type 316 Vic-Flange Adapter**

**STYLE 441**

*Download publication 17.27 for complete information*

- ANSI Class 150
- Constructed from Grade CF8M stainless steel, making it ideal for externally corrosive environments
- Sizes from 2 – 6” | DN50 – DN150
- Pressures up to 275 psi | 1896 kPa | 19 bar
- Available Flange Adapter Nipples: No. 445F Flat Face Flange Adapter Nipple No. 445R Raised Face Flange Adapter Nipple No. 441N Flange Adapter Nipple (For EMEAI only)

**Stainless Steel Mechanical-T Bolted Branch Outlet**

**STYLE 422**

*Download publication 17.02 for complete information*

- Provides a direct Victaulic Original Groove System (OGS) grooved or female threaded branch connection at any location where a hole can be cut in the pipe
- A pressure responsive gasket provides the seal
- Also suitable for use with HDPE pipe
- Sizes from 2 – 10” | DN50 – DN250
- Pressures up to 300 psi | 2068 kPa | 21 bar

Certifications/Listings:

*Download publication 02.06* for ANSI/NSF Potable Water Approvals/Listings
Stainless Steel System

Stainless Steel Schedule 10S Fittings

**Download publication 17.16 for complete information**

- Grooved ends eliminate pipe end preparation for the fittings
- Designed for use with couplings featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from ¾ – 12" | DN20 – DN300
- Available in Type 304L or 316L
- **Download publication 17.27** for stainless steel flange options

Certifications/Listings:

[Images of certifications and listings]

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

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Stainless Steel System

Stainless Steel Schedule 40S Fittings

Download publication 17.16 for complete information

• Grooved ends eliminate pipe end preparation for the fittings
• Designed for use with couplings featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
• Sizes from ¾ – 12" | DN20 – DN300
• Available in Type 304L or 316L
• Designed for higher pressure systems
• Download publication 17.27 for stainless steel flange options

Certifications/Listings:

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

No. 410H SS 90º Elbow
No. 411H SS 45º Elbow
No. 412H SS 22½º Elbow
No. 413H SS 11¼º Elbow

No. 420H SS Tee
No. 425H SS Grooved Branch Reducing Tee
No. 430H SS 45º Lateral
No. 433H SS True Wye
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No. 450H SS Concentric Reducer
No. 451H SS Eccentric Reducer
No. 460H SS Cap

victaulic.com
Stainless Steel System

Vic-300™ MasterSeal™ Stainless Steel Butterfly Valve
SERIES 461

Download publication 17.40 for complete information

- Designed for bi-directional, dead end services to full working pressure
- Available without handle, with gear operator, with lever lock handle and memory stop, or with 10-position handle and memory stop
- Designed for use with fittings and couplings featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 2′–12″ DN50–DN300
- Pressures up to 300 psi 2068 kPa 21 bar

Stainless Steel Check Valve
SERIES 416

Download publication 17.41 for complete information

- Resilient-seat spring return swing check valve designed for horizontal or vertical (upward flow) applications
- Designed for use with fittings and couplings featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation
- Sizes from 2′–12″ DN50–DN300
- Pressures up to 300 psi 2068 kPa 21 bar

Stainless Steel Swing Check Valve
SERIES 712S

Download publication 17.08 for complete information

- The large closure access bonnet permits easy access for in-line service
- Designed for use with fittings and couplings featuring Victaulic® Original Groove System (OGS) grooved ends for fast installation on inlet and outlet ports
- Available in size 2′ DN50
- Pressures up to 300 psi 2068 kPa 21 bar
Duplex Double Disc Check Valve
SERIES 415

**Download publication 17.37 for complete information**

- Designed for use with pipe which features ends formed with either Victaulic’s proprietary StrengThin™ groove profile or the Victaulic® Original Groove System (OGS) profile, specify when ordering
- Sizes from 2–18” | DN50–DN450
- Pressures up to 1200 psi | 8274 kPa | 83 bar

Type 316 Vic-Ball Valve
SERIES 726S

**Download publication 17.22 for complete information**

- High pressure Type 316 stainless steel standard port ball valve with Victaulic Original Groove System (OGS) grooved ends
- Sizes from 1½–6” | DN40–DN150
- Pressures up to 1000 psi | 6895 kPa | 69 bar

Super Duplex Vic-Ball Valve
SERIES 726D

**Download publication 17.28 for complete information**

- High pressure super duplex stainless steel standard port ball valve with Victaulic Original Groove System (OGS) grooved ends
- Sizes from 2–6” | DN50–DN150
- Pressures up to 1200 psi | 8274 kPa | 83 bar

Certifications/Listings:

**Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings**

**Download publication 10.01 for Fire Protection Certifications/Listings**

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Stainless Steel System

Hole Cut
Plain End
Stainless Steel
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Gaskets, Seals and O-Rings
Design Data
Tools
Reference Guide

Three-Piece Vic-Press™ Ball Valve
SERIES P569

Download publication 17.36 for complete information

• The three-piece design permits easy in-line maintenance
• Quarter-turn, bubble-tight shut-off valve, available in three end configurations: Press × Press, Groove × Press and Groove × Groove
• Sizes from ½ – 2” | DN15 – DN50
• Pressures up to 1450 psi | 9997 kPa | 100 bar

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Duplex Plug Valve
SERIES 465

Download publication 18.36 for complete information

• Typically used in reverse osmosis desalination plants for on/off and control services
• Available without operator or with manual, pneumatic, hydraulic and electric actuators
• Available for use with pipe which features ends formed with either Victaulic’s proprietary StrengThin™ groove profile or the Victaulic® Original Groove System (OGS) profile, specify when ordering
• Sizes from 2–20” | DN50 – DN500
• Pressures up to 400 psi | 2758 kPa | 28 bar

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Stainless Steel System
Vic-Press™ For Schedule 10S Stainless Steel Type 304

- Fast, easy, reliable way to join small diameter Schedule 5S or 10S Type 304/304L stainless steel
- Meets ASME requirements for ANSI Class 150 systems
- Sizes from ½ – 2” DN15 – DN50
- Pressures up to 500 psi | 3447 kPa | 34 bar

Certifications/Listings:

- Download publication 10.01 for Fire Protection Certifications/Listings
- Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Connection Key

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

- Style P540 End Cap
- Style P542 90° Street Elbow (P × P)
- Style P543 45° Street Elbow (P × P)
- Style P561 Weld Adapter (P × T)
- Style P565 Van Stone Flange Adapter (P × L)

- Style P584 Threaded Union (P × P)
- Style P586 Short Tangent 90° Elbow (P × P)
- Style P587 Transition Nipple (G × T)
- Style P588 Tee with Threaded Branch (P × P × F)
- Style P591 45° Elbow (P × P)
- Style P592 Tee (P × P × P)

- Style P593 Tee with Reducing Branch (P × P × P)
- Style P594 Concentric Reducer (P × P)
- Style P595 Flange Adapter (P × L)
- Style P596 Male Threaded Adapter (P × M)
- Style P597 Standard Coupling (P × P)
- Style P599 Female Threaded Adapter (P × F)

- 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. 141
Vic-Press™ For Schedule 10S Stainless Steel Type 316

- Fast, easy, reliable way to join small diameter Schedule 5S or 10S Type 316/316L stainless steel
- Meets ASME requirements for ANSI Class 150 systems
- Sizes from ½  2” | DN15 – DN50
- Pressures up to 500 psi | 3447 kPa | 34 bar

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Connection Key

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

Style P507 Standard Coupling (P × P)
Style P508 Slip Coupling (P × P)
Style P560 End Cap
Style P562 90º Street Elbow (P × T)
Style P563 45º Street Elbow (P × T)

Style P566 Van Stone Flange Adapter (P × L)
Style P568 Short Tangent 90º Elbow (P × P)
Style P571 45º Elbow (P × P)
Style P572 Tee (P × P × P)
Style P573 Tee with Reducing Branch (P × P × P)
Style P574 Concentric Reducer (P × P)

Style P575 Flange Adapter (P × L)
Style P576 Male Threaded Adapter (P × M)
Style P577 Transition Nipple (G × T)
Style P578 Tee with Threaded Branch (P × P × F)
Style P579 Female Threaded Adapter (P × F)
Style P585 Threaded Union (P × P)

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. 141
Stainless Steel System

StrengThin™ High Pressure Rigid Coupling
STYLE D08

Download publication 17.30 for complete information

- Designed for use on high pressure thin wall super austenitic, duplex and super duplex stainless steel pipe
- Exclusively for use on pipe which feature ends formed with Victaulic’s proprietary StrengThin™ groove profile
- Sizes from 2 – 20” | DN50 – DN500
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Regional availability, contact Victaulic for details

StrengThin™ High Pressure Fittings

Download publication 17.32 for complete information

- Designed for use on high pressure thin wall super austenitic, duplex and super duplex stainless steel pipe
- Exclusively for use on pipe which feature ends formed with Victaulic’s proprietary StrengThin groove profile
- Sizes from 2 – 20” | DN50 – DN500
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Regional availability, contact Victaulic for details
StrengThin™ 100 Rigid Coupling

**STYLE E497**

**Download publication 31.02 for complete information**

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin™ 100 groove profile
- Sizes from 2–12” | DN50–DN300
- Pressures up to 232 psi | 1600 kPa | 16 bar
- Regional availability, contact [Victaulic](#) for details

StrengThin™ 100 Fittings

**Download publication 31.04 for complete information**

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin 100 groove profile
- Sizes from 2–12” | DN50–DN300
- Regional availability, contact [Victaulic](#) for details

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**Certifications/Listings:**

- DVGW
- WRAS

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**No. E490**

90° Elbow

**No. E491**

45° Elbow

**No. E492**

Tee

**No. E493**

Reducing Tee

**No. E494**

Adapter Nipple (ST100 Groove × Plain End)

**No. E494G**

Adapter Nipple (OGS Groove × ST100 Groove)

**No. E494I**

Instrumentation Nipple (ST100 Groove × ST100 Groove)

**No. E495**

Concentric Reducer

**No. E496**

Cap

**No. E498**

Flange Adapter
StrengThin™ 100 Installation-Ready™
Butterfly Valve
SERIES E125

Download publication 31.05 for complete information

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin™ 100 groove profile
- Designed for bi-directional service to full working pressure
- Available with multiple handle options
- Sizes from 3 – 8" | DN80 – DN200
- Pressures up to 232 psi | 1600 kPa | 16 bar
- Regional availability, contact Victaulic for details

StrengThin™ 100 Vic-300™
MasterSeal™ Stainless Steel
Butterfly Valve
SERIES E461

Download publication 17.40 for complete information

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin™ groove profile
- Designed for bi-directional, dead end services to full working pressure
- Available with multiple handle options
- Sizes from 2 – 12" | DN50 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

StrengThin™ 100 Stainless Steel
Check Valve
SERIES E416

Download publication 17.41 for complete information

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin™ 100 groove profile
- Resilient-seat spring return swing check valve designed for horizontal or vertical (upward flow) applications
- Sizes from 2 – 12" | DN50 – DN300
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

victaulic.com
Stainless Steel System

StrengThin™ 100 Expansion Joint
STYLE E155

Download publication 31.07 for complete information

- Exclusively for use on thin wall stainless steel pipe which features Victaulic’s proprietary StrengThin 100 groove profile
- Sizes from 2 – 12” | DN50 – DN300
- Style E155 expansion joints are rated to the working pressure of the coupling used
- Regional availability, contact Victaulic for details
Copper System

The Victaulic® grooved copper system offers a full line of couplings, fittings and valves for systems rated up to 300 psi | 2068 kPa | 21 bar, 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” | 54.0–206.4 mm | DN50–DN200 of the following types of copper tube:

- CTS: Types K, L, M or DWV
- Australian Standard: Types A, B or D
- European EN 1057: R250

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

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QuickVic™ Rigid Coupling for CTS Copper
STYLE 607

Download publication 22.13 for complete information

- Designed for use on K, L, M or DWV copper tubing and available in sizes from 2 – 8’ | 54.0 – 206.4 mm
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Rigid Coupling for Australian Standard and European Copper
STYLE 606-AS and STYLE 606

Download publication 22.51 for Australian Standard
Download publication 22.11 for European

- Style 606-AS for Australian Standard copper designed for use on Types B and D copper tubing and available in sizes from 2 – 8’ | DN50 – DN200
- Style 606 for European copper designed for use on R250 copper tubing and available in sizes from 2 – 6’ | DN50 – DN150
- Pressures up to 355 psi | 2448 kPa | 24 bar
- Regional availability, contact Victaulic for details

Installation-Ready™ Transition Coupling for CTS Copper to Stainless Steel for Potable Water
STYLE 644

Download publication 22.44 for complete information

- Provides direct, single coupling connection
- Designed for use only on Types 304 or 316 Schedules 10S and 40S stainless steel pipe and ASTM B88 Types K, L and M copper tubing and ASTM B306 Type DWV copper tubing
- Sizes from 2 – 6” | DN50 – DN150
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

victaulic.com
Copper System

**Vic-Flange Adapter for CTS and European Copper**

**STYLE 641**

- Sizes from 2–6" | 54.0–155.6 mm | DN50–DN150
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact [Victaulic](#) for details

**Certifications/Listings:**

- [UL Listed](#)
- WRAS

Download publication 22.03 for CTS
Download publication 22.11 for European

**Dielectric Fitting for CTS Copper**

**STYLE 647**

- 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" | 12.2–104.8 mm
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact [Victaulic](#) for details

**Certifications/Listings:**

- [UL Listed](#)

Download publication 10.01 for Fire Protection Certifications/Listings

Download publication 22.21 for complete information

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings
Copper System

Fittings for Copper

Download publication 22.04 for CTS
Download publication 22.52 for Australian Standard
Download publication 22.11 for European

- 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, Style 606 rigid coupling, or a Style 641 flange adapter
- Sizes from 2 – 8" | 54.0 – 206.4 mm | DN50 – DN200 for CTS and European copper
- Sizes from 2 – 6" | 50.8 – 152.4 mm | DN50 – DN150 for Australian Standard copper
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

No. 610 No. 610-AS No. 610-EN
90° Elbow

No. 610-LR-AS
90° Long Radius Elbow

No. 611 No. 611-AS No. 611-EN
45° Elbow

No. 611-LR-AS
45° Long Radius Elbow

No. 620 No. 620-AS No. 620-EN
Tee

No. 625 No. 625-AS No. 625-EN
Reducing Tee (Groove × Groove × Groove)

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

No. 643 Adapter Nipple

No. 650 No. 650-AS No. 650-EN
Concentric Reducer (Groove × Groove)

No. 652 No. 652-EN
Concentric Reducer (Groove × Cup)

No. 660 No. 660-AS No. 660-EN
Cap

victaulic.com
Butterfly Valve for CTS and Australian Standard Copper
SERIES 608N and SERIES 608N-AS

Download publication 22.14 for CTS
Download publication 22.53 for Australian Standard

- Joins quickly to copper tube by utilizing Style 607 rigid couplings
- Style 608N for CTS copper available in sizes from 2½ – 6" | 50.8 – 152.4 mm
- Style 608N-AS for Australian Standard copper available in sizes from 2 – 6" | DN50 – DN150
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Mechanical-T Bolted Branch Outlet and Cross Assemblies for CTS Copper
STYLE 622

Download publication 22.12 for complete information

- Provides a direct branch connection at any location on K, L and M copper tubing
- Sizes from 2½ – 4" | 66.7 – 104.8 mm
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings
Download publication 02.06 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings
### Shouldered Steel System

Vicautic offers a range of couplings, fittings and valves for shouldered piping systems from 2 – 12" | DN50 – DN300, up to 610 psi | 4200 kPa | 42 bar. Style SC77 features Installation-Ready™ technology which eliminates loose parts and speeds installation time.

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

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Installation-Ready™ Flexible Coupling for Shouldered Steel Pipe  
**STYLE SC77**

Download publication 16.10 for complete information

- Sizes from 2 – 8’ | DN50 – DN200 (pipe O.D.)
- Pressures up to 580 psi | 4000 kPa | 40 bar
- Supplied standard with galvanized coating
- Regional availability, contact Victaulic for details

Flexible Coupling for Shouldered Steel Pipe  
**STYLE SC85**

Download publication 16.21 for complete information

- Sizes from 2 – 12’ | DN50 – DN300 (pipe O.D.)
- Pressures up to 610 psi | 4200 kPa | 42 bar
- Supplied standard with galvanized coating
- Regional availability, contact Victaulic for details

Transition Coupling for HDPE to Shouldered Steel  
**STYLE SC998**

Download publication 19.08 for complete information

- Sizes available to join 63 – 110 mm HDPE pipe to 2 – 4’ | DN50 – DN100 shouldered pipe (pipe O.D.)
- Pressure rating conforms to the maximum pressure rating of the pipe
- Regional availability, contact Victaulic for details
Shouldered Steel System

Shouldered Steel Fittings

Download publication 07.06 for complete information

- Shouldered end fittings are designed to be installed using either the Style SC77 Installation-Ready™ flexible coupling or the Style SC85 flexible coupling.
- Sizes from 2 – 8” | DN50 – DN200 (pipe O.D.)
- Pressure ratings conform to ratings of installed coupling.
- Fittings supplied standard with galvanized coating.
- Regional availability, contact Victaulic for details.

No. SC10
90° Elbow

No. SC11
45° Elbow

No. SC20
Tee

No. SC25
Reducing Tee

No. SC30
45° Lateral

No. SC30-R
45° Reducing Lateral

No. SC33
True Wye

No. SC35
Cross

No. SC45F
Flat Face Flanged Adapter Nipple

No. SC45R
Raised Face Flanged Adapter Nipple

No. SC50
Concentric Reducer

No. SC60
Cap
Shouldered Steel System

**Shouldered Gate Valve**
SERIES 7S2

*Download publication 08.44 for complete information*

- Non-Rising Stem (NRS) gate valve designed in accordance with AS-2638.2
- Sizes from 3 – 8’ | DN80 – DN200 (pipe O.D.)
- Pressures up to 365 psi | 2517 kPa | 25 bar
- Regional availability, contact Victaulic for details

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**Shouldered Butterfly Valve**
SERIES 761SC

*Download publication 08.31 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 – 8’ | DN50 – DN200 (pipe O.D.)
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Regional availability, contact Victaulic for details
Ductile Iron System

The Victaulic® grooved ductile iron piping system is the fastest and easiest method for joining ductile iron 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 | 3447 kPa | 34 bar, with a size range from 3 – 36" | DN80 – DN900. Flush-Seal™ 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.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

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Ductile Iron System

Coupling for Ductile Iron
STYLE 31

**Download publication 23.02 for complete information**

- Coupling meets or exceeds the requirements of AWWA C606
- Provides a rigid or flexible joint on Class 53 or heavier wall pipe
- Sizes from 3 – 36" | DN80 – DN900
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Optional coatings include orange enamel, coal tar epoxy, organic zinc primer and bituminous
- Regional availability, contact Victaulic for details

Transition Coupling for IPS to Ductile Iron
STYLE 307

**Download publication 23.03 for complete information**

- Coupling meets or exceeds the requirements of AWWA C606
- Single transition for connecting grooved end IPS steel to grooved end ductile iron
- Sizes from 3 – 12" | DN80 – DN300
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Optional coatings include galvanized, organic zinc primer and bituminous
- Regional availability, contact Victaulic for details

Vic-Flange Adapter for Ductile Iron
STYLE 341

**Download publication 23.04 for complete information**

- Designed for direct connection of flanged components into a grooved cast or ductile system
- Sizes from 3 – 24" | DN80 – DN600
- Pressures up to 250 psi | 1724 kPa | 17 bar
- Optional coatings include coal tar epoxy, organic zinc primer and bituminous
- Regional availability, contact Victaulic for details

Certifications/Listings:

[UL Listed]  [FM]  
Download publication 10.01 for Fire Protection Certifications/Listings
Ductile Iron System

Fittings for Ductile Iron

Download publication 23.05 for complete information

- Supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- 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 dimensions
- Sizes from 3 – 36" | DN80 – DN900
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

No. 10-C 90° Elbow
No. 100-C 90° Long Radius Elbow
No. 10-CB Base Elbow
No. 100-CB Long Radius Base Elbow
No. 10-CF 90° Flare
No. 100-CF 90° Long Radius Flare

No. 10-CR 90° Reducing Elbow
No. 100-CR 90° Long Radius Reducing Elbow
No. 10-CS 90° Side Outlet
No. 11-C 45° Elbow
No. 12-C 22½° Elbow
No. 13-C 11¼° Elbow

No. 20-C Tee
No. 20-CB Base Tee
No. 20-CS Tee Side Outlet
No. 21-C Bullhead Tee
No. 25-C Reducing Tee
No. 25-CB Reducing Base Tee
Fittings for Ductile Iron

Download publication 23.05 for complete information

- Supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- 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 dimensions
- Sizes from 3–36” | DN80–DN900
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 10.01 for Fire Protection Certifications/Listings
Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

victaulic.com
Check Valve for Ductile Iron
SERIES 317

[Download publication 23.09 for complete information]

- Conforms to AWWA C-508 requirements for water and wastewater treatment services
- Sizes from 3–12” | DN80–DN300
- Pressures up to 175 psi | 1207 kPa | 12 bar
- Regional availability, contact Victaulic for details

Vic-Plug Valve for Ductile Iron
SERIES 365

[Download publication 23.06 for complete information]

- Conforms to AWWA C-509 requirements for end-to-end dimensions
- Round port provides better flow and allows easier passage of cleaning pigs
- Sizes from 3–12” | DN80–DN300
- Pressures up to 175 psi | 1207 kPa | 12 bar
- Regional availability, contact Victaulic for details
Victaulic has expanded its product line to include the industry's first grooved mechanical piping solution designed for use on commercial and industrial steam, condensate and chemical service piping. Available in sizes 2–8” | DN50–DN200, the system includes the Style 870 rigid coupling, the Series 871 gate valve, the Series 159 flexible loop, a full line of fittings, in-place roll grooving tools, and pipe preparation tool roll sets that eliminate the need to weld steam systems up to 200 psi | 1379 kPa | 14 bar.

For more information on Victaulic® OGS-200 roll groove specifications, download publication 25.12.

### High Performance System for Steam and Chemical Services

To learn more visit victaulicsteam.com
OGS-200 Grooved End Fittings

Download publication 100.01 for complete information

- 90° and 45° elbows, tees and reducing tees, caps, reducers and flange adapter nipples available
- Exclusively for use on pipe which features ends formed with Victaulic’s proprietary OGS-200 groove profile
- Sizes from 2 – 8” | DN50 – DN200
- Pressure ratings are equivalent to the Victaulic coupling used to install them
- Regional availability, contact Victaulic for details

Gate Valve
SERIES 871

Download publication 100.12 for complete information

- Bi-directional shut off service
- Meets API 600 and API 598 requirements
- Exclusively for use on pipe which features ends formed with Victaulic’s proprietary OGS-200 groove profile
- Sizes from 2 – 8” | DN50 – DN200
- Saturated steam and nonsteam: Pressures up to 200 psi | 1379 kPa | 14 bar
- +32°F to +388°F | 0°C to +198°C
- Regional availability, contact Victaulic for details

Flexible Loop
SERIES 159

Download publication 100.13 for complete information

- Accommodates piping movement from thermal changes, seismic activity, and differential building settlement
- Exclusively for use on pipe which features ends formed with Victaulic’s proprietary OGS-200 groove profile
- Sizes from 2 – 8” | DN50 – DN200
- Saturated steam and nonsteam: Pressures up to 150 psi | 1034 kPa | 10 bar
- +32°F to +366°F | 0°C to +186°C
- Regional availability, contact Victaulic for details
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 coil solution delivered to the job site as a pre-connected unit for faster and easier installation.

**Download publication 02.06** for ANSI/NSF

Potable Water Approvals/Listings

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victaulic.com
Hydronic Balancing Solutions

Manual Balancing Valves

½ – 2"  |  DN15 – DN50

Download publication 08.16 for complete information

- “Y” patterned globe valve
- Digital hand wheel with 4 turns to open, and includes memory stop
- Pressures up to 400 psi  |  2758 kPa  |  28 bar
- Rated from -4°F to +250°F  |  -20°C to +120°C
- Regional availability, contact Victaulic for details

Series 78KH
Union Inlet

Manual Balancing Valves

2½ – 16"  |  73.0 mm – DN400

Download publication 08.16 for complete information

- “Y” patterned globe valve
- Digital hand wheel with 8, 12, or 16 turns to open (depending on size), and includes memory stop
- Pressures up to 350 psi  |  2413 kPa  |  24 bar
- Rated from -4°F to +250°F  |  -20°C to +120°C
- Regional availability, contact Victaulic for details

TA Series 786
Solder End

TA Series 787H
Female Threaded End

TA Series 788
Class 150 Flanged End
2½ – 16"  |  73.0 mm – DN400

TA Series 789
Grooved End
2½ – 12"  |  73.0 mm – DN300
Manual Balancing Ball Valve

TA SERIES 78BL

**Download publication 08.50** for complete information

- Shut-off, manual throttling and measuring valve with reduced port
- IAPMO Certified 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
- Sizes from ½ – 2" | DN15 – DN50
- Pressures up to 400 psi | 2800 kPa | 28 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details

Automatic Balancing Valves

**Download publication 08.34** for complete information

- Contains an automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Differential pressure range dependent upon cartridge selected; 43.5 psi | 300 kPa | 3 bar or 87 psi | 600 kPa | 6 bar
- DZR brass body with an EPDM O-Ring and NPT thread
- Sizes from ½ – 2" | DN15 – DN50
- Pressures up to 365 psi | 2517 kPa | 25 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details

Certifications/Listings:

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

victaulic.com
Automatic Balancing Valve with Ball Valve Kit

**THREADED END**

*Download publication 08.34 for complete information*

- Contains an automatic cartridge with a replaceable orifice plate, specify cartridge type when ordering
- Differential pressure range dependent upon cartridge selected; 43.5 psi | 300 kPa | 3 bar or 87 psi | 600 kPa | 6 bar
- DZR brass body with an EPDM O-Ring and NPT thread
- Sizes from ½–2” | DN15–DN50
- Pressures up to 365 psi | 2517 kPa | 25 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details

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Automatic Balancing Valve

**SERIES 76G (GROOVED END)**

*Download publication 08.34 for complete information*

- Integrated orifice plate for direct flow measurement
- Grooved body connection for easy maintenance
- Differential pressure range
  1.9–87 psi | 13–600 kPa | 0.15–6 bar
- Size from 2½–6” | 73.0 mm – DN150
- Pressures up to 365 psi | 2517 kPa | 25 bar
- Rated from -4°F to +230°F | -20°C to +110°C
- Regional availability, contact Victaulic for details
Hydronic Balancing Solutions

ICSS Low Lead Balancing Valve
TA SERIES 76X

Download publication 08.51 for complete information

- Differential pressure options
  2 – 32 psi | 13.78 – 220.6 kPa | .15 – 2 bar and
  5 – 60 psi | 34 – 414 kPa | 3 – 4 bar
- Sizes from ½ – ¼” | DN15 – DN20
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Terminal Balancing and Control Valve — Female × Female
TA SERIES TC

Download publication 08.38 for complete information

- Designed for on/off control
- Ensures accurate hydronic control and optimum throughput over a long lifetime
- Sizes from ½ – 1” | DN15 – DN25
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details

Terminal Balancing Valve for Modulating Control — Female × Female
TA SERIES TCM

Download publication 08.38 for complete information

- Designed for modulating control or on/off
- Ensures accurate hydronic control and optimum throughput over a long lifetime
- Sizes from ½ – 1” | DN15 – DN25
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details

victaulic.com
Pressure Independent Balancing and Control Valve (PIBCV)
TA SERIES 7FP

Download publication 08.53 for complete information

- Measures flow, differential pressure, temperature and pump head
- EQM characteristics (Equal Percentage Modified)
- 1¼ – 2’ | DN32 – DN50: Female NPT Threads; Pressures up to 230 psi | 1586 kPa | 16 bar
- 2½ – 6’ | 73.0 mm – DN150: ANSI Class 150 Flange; Pressures up to 365 psi | 2517 kPa | 25 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details
Compact Pressure Independent Balancing and Control Valve
TA SERIES 7CP

Download publication 08.37 for complete information

- Lower pump head/energy consumption
- Sizes from ½ – 1¼” | DN15 – DN32
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Rated from +32°F to +194°F | +0°C to +90°C
- Regional availability, contact Victaulic for details

Pressure Independent Balancing and Modulating Control Valve
TA SERIES 7MP

Download publication 08.55 for complete information

- EQM flow characteristics provide highly precise temperature control
- Sizes from ½ – 3” | DN15 – DN80
- Pressures up to 365 psi | 2517 kPa | 25 bar
- Rated from +32°F to +194°F | +0°C to +90°C
- Regional availability, contact Victaulic for details

Control Valve with Return Temperature Controller
TA SERIES 7CT

Download publication 08.36 for complete information

- Lower pump head/energy consumption
- Sizes from ½ – 1” | DN15 – DN25
- Pressures up to 230 psi | 1586 kPa | 16 bar
- Rated from +14°F to +122°F | -10°C to +50°C
- Regional availability, contact Victaulic for details
Differential Pressure Controller — Female Threaded End
TA SERIES 793

Download publication 08.29 for complete information

- Features AMETAL® body providing dielectric protection
- Sizes from ½–2” | DN15–DN50
- Capable of stabilizing differential pressures up to 23.3 psi | 160 kPa | 1.6 bar
- Regional availability, contact Victaulic for details

Differential Pressure Controller — Flanged End
TA SERIES 794

Download publication 08.29 for complete information

- Features a ductile iron body
- Sizes from 2½–4” | 73.0 mm – DN100
- Capable of stabilizing differential pressures up to 23.3 psi | 160 kPa | 1.6 bar
- Regional availability, contact Victaulic for details

Differential Pressure Controller — Flanged End
TA Series 7PR

Download publication 08.46 for complete information

- Features a ductile iron valve body and a non-ferrous AMETAL® DZR brass copper alloy pilot body
- Sizes from 2½–8” | 73.0 mm – DN200
- Capable of stabilizing differential pressures up to 116 psi | 800 kPa | 8 bar
- Rated from -4°F to +250°F | -20°C to +120°C
- Regional availability, contact Victaulic for details
**Standard KOIL-KIT™ Coil Pack**

SERIES 799

*Download publication 08.30 for complete information*

- The Series 799 consists of the following components: a Series 78Y Y-strainer/ball valve or Series 78T ball valve union combination; a Series 78U union port fitting; and a Series 78K, Series 786 (sweat) or Series 78BL balancing valve; with or without hoses; and with or without PT and handle extensions
- Suitable for a variety of hot and cold water applications including treated and untreated water systems
- Sizes from ½ – 2” | DN15–DN50
- Regional availability, contact Victaulic for details

**KOIL-KIT™ Coil Pack with ATC and Bypass Options**

SERIES 79B and SERIES 79A

*Download publication 08.30 for complete information*

- The Series 79B 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 as well as various options for bypass valves
- The Series 79A includes option to have the ATC valve of your choice assembled and shipped with the Victaulic® KOIL-KIT™ coil pack
- Sizes from ½ – 2” | DN15–DN50
- Regional availability, contact Victaulic for details
KOIL-KIT™ Coil Pack for Air Handling Units
SERIES 79C and SERIES 79D

Download publication 08.35 for complete information

- 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.
- Sizes from 2½–6’ | 73.0 mm–DN300
- Regional availability, contact Victaulic for details.

KOIL-KIT™ Coil Hose

Download publication 08.30 for complete information

- Stainless steel braided hose and an EPDM polymer core with stainless ferrules; available as male by female swivel and male by male swivel.
- Available lengths: 12’ | 300 mm; 24’ | 610 mm; 36’ | 914 mm.
- Sizes from ½–2” | DN15–DN50.
- 375 psi | 2585 kPa | 26 bar maximum CWP (varies by size).
- Suitable for operating temperatures up to +230°F | +110°C.
- Regional availability, contact Victaulic for details.
KOIL-KIT™ Y-Strainer/Ball Valve Combination
SERIES 78Y

Download publication 08.30 for complete information

- DZR brass body consisting of a full port valve, strainer and blow down valve with flow measuring ports
- Multiple end connections available
- Sizes from ½–2" | DN15–DN50
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Rated up to +230°F | +110°C
- Regional availability, contact Victaulic for details

KOIL-KIT™ Ball Valve/Union Combination
SERIES 78T

Download publication 08.30 for complete information

- DZR brass body consisting of a union and blow down valve with flow measuring ports
- Multiple end connections available
- Sizes from ½–2" | DN15–DN50
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Rated up to +230°F | +110°C
- Regional availability, contact Victaulic for details

KOIL-KIT™ Union Port Fitting
SERIES 78U

Download publication 08.30 for complete information

- Multiple end connections available
- Sizes from ½–2" | DN15–DN50
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Rated up to +230°F | +110°C
- Regional availability, contact Victaulic for details
Hydronic Balancing Solutions

**TA Scope™**
**TA SERIES 734**

**Download publication 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
- Used in conjunction with HySelect computer program to obtain the most economical system design
- Regional availability, contact [Victaulic](#) for details

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**Link Differential Pressure Sensor**
**TA SERIES 736**

**Download publication 08.16 for complete information**

- Provides connection between a building’s heating and cooling and the building’s monitoring system (BMS)
- Continuously measures the flow and differential pressure through and across the IMI TA balancing valves
- Measurement probes provided for direct connection to the measurement points on all TA Series 786, 787, 788, and 789 balancing valves
- Regional availability, contact [Victaulic](#) for details
System Solution for HDPE Pipe

Strong, durable, and easy to install, the Victaulic® system solution for high-density polyethylene (HDPE) offers a complete line of Installation-Ready™ plain end and grooved products. Installation is up to ten times faster than fusion, weather agnostic, and requires only simple tools. Victaulic couplings for HDPE can be buried or submerged, offer pressure ratings that meet or exceed pressure ratings of HDPE pipe, and offer visual verification of proper joint assembly.

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

To learn more visit victaulic.com/hdpesolutions

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Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

To learn more visit victaulic.com/hdpesolutions
Coupling for Plain End HDPE Pipe
STYLE 905

Download publication 19.07 for complete information
- Designed for plain end HDPE pipe (SDR 7 – SDR 21)
- Sizes from 2 – 14" IPS and 63 – 355 mm ISO
- Pressure rating meets or exceeds the performance capabilities of the pipe

Transition Coupling for HDPE-to-Steel Pipe
STYLE 907 and STYLE W907

Download publication 19.10 for complete information
- Designed to provide a single transition from plain end HDPE pipe (SDR 7 – SDR 21) to grooved steel sized piping system components
- Sizes from 2 – 14" IPS HDPE to 2 – 14" DN50 – DN350 IPS grooved steel
- Sizes from 63 – 355 mm ISO HDPE to 2 – 14" DN50 – DN350 ISO grooved steel
- Pressure rating meets or exceeds the performance capability of the pipe

Coupling for Double Grooved HDPE Pipe
STYLE 908

Download publication 19.09 for complete information
- Designed for double-grooved HDPE (SDR 7 – SDR 21)
- Sizes from 8 – 36" IPS and 250 – 900 mm ISO
- Standard Victaulic® coupling assembly procedure used for installation
### Flange Adapter for HDPE-to-Flanged Pipe
**STYLE 904**

**Download publication 19.12 for complete information**

- Designed to provide a single transition from plain end HDPE pipe (SDR 7 – SDR 21) to flanged piping system components
- Sizes from 3–8" IPS HDPE to 3–8" IPS ANSI Class 150 Flange
- Regional availability, contact Victaulic for details

### Plain End HDPE Fittings

**Download publication 19.11 for complete information**

- Available in SDR 7, SDR 9, SDR 11, and SDR 17
- Sizes from 2–8" IPS and 63–225 mm ISO
- Full flow fittings
- For use with Style 905, Style 907, and Style 904

- **No. H10**
  - 90° Elbow
- **No. H11**
  - 45° Elbow
- **No. H20**
  - Tee
- **No. H50**
  - Reducer

### Knife Gate Valve for HDPE Pipe
**SERIES 906**

**Download publication 19.06 for complete information**

- Designed for HDPE (SDR 7–SDR 21) fluid lines containing solids, slurry, and/or abrasive media
- All wear parts can be replaced in-line without removing the valve from the pipeline
- Manual, hydraulic, pneumatic, and electric actuation available
- Sizes from 3–8"
- Pressures up to 150 psi | 1035 kPa | 10 bar
- Regional availability, contact Victaulic for details
### Aquamine™ PVC System

Victaulic® Aquamine™ reusable PVC piping system offers a complete line of reusable pipe, fittings, valves and specialty items. This product line is ideal for a wide variety of water and chemical services due to the high-impact resistance of Aquamine PVC pipe and synthetic rubber O-rings. The spline assembly used in Victaulic Aquamine PVC piping uniquely engages into the grooves of both the coupling and the pipe.

**Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings**

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Aquamine™ PVC System

**Aquamine™ PVC Pipe**

**SERIES 2900**

*Download publication 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” | DN50 – DN300
- Pressures up to 350 psi | 2413 kPa | 24 bar

**Certifications/Listings:**

*Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings*

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**Aquamine™ Couplings**

*Download publication 50.01 for complete information*

- Sizes from 2 – 12” | DN50 – DN300
- Pressures up to 350 psi | 2413 kPa | 24 bar

**Certifications/Listings:**

*Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings*

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**Series 2904**
Female to Female

**Female to Female**
Beveled

**Series 2937**
(1” | 25 mm Outlet)

**Series 2938**
(1½” | 38 mm Outlet)

**Series 2939**
(2” | 50 mm Outlet)
Female to Female with Female NPT Formed Outlet

**Series 2905**
Female to Solvent Cement Female

**Series 2930**
Female to Female with Female NPT Outlet
Aquamine™ PVC System

Aquamine™ Coupling for Plain End PVC
SERIES 2970

Download publication 50.01 for complete information

- Coupling for plain end PVC systems; no pipe preparation required
- Sizes from 2–8” | DN50–DN200
- Pressures up to 350 psi | 2413 kPa | 24 bar

Aquamine™ Transition Coupling for PVC to HDPE
SERIES 2971

Download publication 50.05 for complete information

- Provides convenient transition from PVC to HDPE without need for special adapters
- Sizes from 2–8” | DN50–DN200
- Pressures up to 350 psi | 2413 kPa | 24 bar

Aquamine™ Transition Coupling for PVC to Groove
SERIES 2972

Download publication 50.06 for complete information

- Provides convenient transition from PVC to grooved steel without need for special adapters
- Sizes from 2–8” | DN50–DN200
- Pressures up to 350 psi | 2413 kPa | 24 bar
Aquamine™ Fittings

Download publication 50.01 for complete information

- Variety of straight and reducing fittings
- Sizes from 2 – 12” | DN50 – DN300
- Pressures up to 350 psi | 2413 kPa | 24 bar

Certifications/Listings:

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

Series 2906
Male × Plain End
Male Adapter Nipple

Series 2907
Male × Victaulic®
OGS Groove
Adapter Nipple

Series 2908
Male × Male NPT
Adapter Nipple

Series 2909
Plain End Male ×
Male NPT
Adapter Nipple

Series 2910
Male × Male
90° Elbow

Series 2911
Male × Male
22½° Elbow

Series 2912
Male × Male
45° Long

Aqua Link
Male × Male × Male
Lateral Wye

Series 2913
Male × Male
90° Sweep

Series 2914
Male × Male
45° Sweep

Series 2915
Male End Cap

Series 2916
Male × Flanged
Adapter Nipple

Series 2917
Male × Male × Male
Tee

Series 2918
Male × Male × Male
Reducing Tee

Series 2919
Female × Male
Reducer

Series 2920
Male × Solvent
Cement Female
Transition

Series 2940
Female × Male
Transition with
Female NPT Outlet
Aquamine™ Ball Valve
SERIES 2921

Download publication 50.01 for complete information

- Available with a lever handle or a square nut
- Sizes from 2 – 6’ | DN50 – DN150
- Pressures up to 100 psi | 690 kPa | 7 bar

Aquamine™ Butterfly Valve
SERIES 2950

Download publication 50.01 for complete information

- Provided with a lever handle for easy on-off operation
- Sizes from 2 – 6’ | DN50 – DN150
- Pressures up to 250 psi | 1724 kPa | 17 bar
**CPVC/PVC System**

Victaulic now offers the industry’s first and only grooved piping system designed exclusively for use on Schedules 40 and 80 chlorinated polyvinyl chloride/ polyvinyl chloride (CPVC/PVC) pipe featuring Victaulic’s proprietary PGS-300 groove profile. Available in sizes 2 – 12” | DN50 – DN300, the system includes a full line of Installation-Ready™ couplings, fittings and pipe preparation tools. This system solution offers the fastest, cleanest installation method for CPVC/PVC pipe and eliminates several drawbacks associated with traditional joining methods.

**Download publication 02.06** for ANSI/NSF Potable Water Approvals/Listings

**PGS-300**

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To learn more visit [victaulic.com/cpvsolutions](http://victaulic.com/cpvsolutions)
**Installation-Ready™ Rigid Coupling**

**STYLE 357**

*Download publication 33.07 for complete information*

- Exclusively for use on CPVC/PVC pipe featuring Victaulic’s proprietary PGS-300 groove profile
- Sizes from 2 – 12" | DN50 – DN300
- Refer to the publication for maximum pressure ratings and temperature reduction factors
- Regional availability, contact Victaulic for details

**Certifications/Listings:**

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)

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**Installation-Ready™ Transition Coupling**

**STYLE 356**

*Download publication 33.06 for complete information*

- Provides a direct, single coupling connection for Victaulic® PGS-300 grooved end CPVC/PVC pipe or fittings to Victaulic Original Groove System (OGS) grooved end IPS or stainless steel pipe, fittings or valves of the same nominal size
- Sizes from 2 – 12" | DN50 – DN300
- Refer to the publication for maximum pressure ratings and temperature reduction factors
- Regional availability, contact Victaulic for details

**Certifications/Listings:**

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)

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**Reducing Coupling**

**STYLE 358**

*Download publication 33.08 for complete information*

- Exclusively for use on CPVC/PVC pipe featuring Victaulic’s proprietary PGS-300 groove profile
- Sizes from 2½ × 2" – 10 × 8" | 73.0 mm × DN50 – DN250 × DN200
- Refer to the publication for maximum pressure ratings and temperature reduction factors
- Regional availability, contact Victaulic for details

**Certifications/Listings:**

[Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings](#)

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victaulic.com
CPVC/PVC System

PGS-300 Grooved End Fittings

Download publication 33.03 for complete information

- Exclusively for use on CPVC/PVC pipe featuring Victaulic's proprietary PGS-300 groove profile
- Sizes from 2 – 12” | DN50 – DN300
- Refer to the publication for maximum pressure ratings and temperature reduction factors
- Regional availability, contact Victaulic for details

Certifications/Listings:

Download publication 02.06 for ANSI/NSF Potable Water Approvals/Listings

- No. 350 90º Elbow
- No. 351 45º Elbow
- No. 352 Tee
- No. 353 Reducing Tee (Groove × Groove × Groove)
- No. 354 Reducing Tee (Groove × Groove × Socket)
- No. 359F Flange Adapter (Groove × Flange)
- No. 361 Reducing Adapter (Groove × Socket)
PGS-300 Grooved End Expansion Joint
STYLE 355

Download publication 33.05 for complete information

- Exclusively for use on CPVC/PVC pipe featuring Victaulic’s proprietary PGS-300 groove profile
- Provides increased axial expansion and full axial movement at each joint
- Combination of Style 357 rigid couplings and short grooved nipples, joined in tandem to provide increased expansion
- Victaulic® Grade "EHP" gasket is UL Classified in accordance with ANSI/NSF 61 and 372 for potable water service
- Sizes from 2 – 12" | DN50 – DN300
- Refer to the publication for maximum pressure ratings and temperature reduction factors
- Regional availability, contact Victaulic for details
Pipe Preparation Tools

The world’s leading developer of pipe preparation tools, and inventor of the original groove, has been providing the industry with in-place, field and shop model tools since the 1940s. From ½” | DN15 through 78” | DN1950; for carbon steel through plastic pipe; and a wide variety of accessories, these tools will simplify your work in the field or on the shop floor. The Victaulic® line of intelligent roll grooving tools offer instant feedback on the quality of the groove, reducing rework and increasing operator safety.

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Field Portable Roll Grooving Tools
VE12 GROOVE IN-PLACE

Download publication 24.01 for complete information

- Roll grooves ¾ – 2" | DN20 – DN50 pipe
- For manual grooving of Schedule 5, 10 and 40 steel; stainless steel; aluminum and PVC pipe (size dependent)
- Tool is manually operated using the supplied handle
- Enhanced tracking rolls allow bi-directional grooving
- Power Requirements: None
- Weight: 17 lbs. | 8 kg

Field Portable Roll Grooving Tools
RG1200 OGS-200 GROOVE IN-PLACE

Download publication 24.11 for complete information

- Roll grooves 2 – 6" | DN50 – DN150 pipe
- Designed to provide a Victaulic® OGS-200 roll groove in Schedules 40 and 80 carbon steel pipe
- Tool is manually operated using the supplied handle
- Enhanced tracking rolls allow bi-directional grooving
- Power Requirements: None
- Weight: 27 lbs. | 12 kg
Field Portable Roll Grooving Tools

VE26 GROOVE IN-PLACE

**Download publication 24.01 for complete information**

- Roll grooves 2 – 6” | DN50 – DN150 pipe
- For manual grooving of Schedule 5, 10 and 40 steel; stainless steel; aluminum and PVC pipe; K, L, M, DWV, A, B and D copper tube (size dependent)
- Tool is manually operated using the supplied handle
- Enhanced tracking rolls allow bi-directional grooving
- Optional power drive kit available to alternately groove pipe using a 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.
- Power Requirements: None
- Tool Weight: 22 lbs. | 10 kg
- Optional Power Drive Kit Weight: 7 lbs. | 3 kg

Field Portable Roll Grooving Tools

VE46 GROOVE IN-PLACE

**Download publication 24.01 for complete information**

- Roll grooves 3½ – 6” | DN90 – DN150 pipe
- For manual grooving of Schedule 5, 10 and 40 steel; stainless steel and aluminum pipe; Schedule 40 – 80 PVC pipe (size dependent)
- Tool is manually operated using the supplied handle
- Enhanced tracking rolls allow bi-directional grooving and help to hold the tool on the pipe end during the roll grooving process
- Optional power drive kit available to alternately groove pipe using a 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.
- Power Requirements: None
- Tool Weight: 28 lbs. | 13 kg
- Optional Power Drive Kit Weight: 7 lbs. | 3 kg
Field Portable Roll Grooving Tools

**VE226 PORTABLE GROOVER**

**Download publication 24.01 for complete information**

- Roll grooves ¾ – 6” | DN20 – DN150 pipe
- For grooving of Schedule 5, 10 and 40 steel; stainless steel; aluminum and PVC pipe; K, L, M, DWV, A, B and D copper tube (size dependent)
- Tool is operated using a standard ¾” | 9.5 mm square ratchet drive (not included)
- Drive Requirements: Mounts to Ridgid™ 300 Power Drive; optional bases available
- Kit required for connecting a VE226 roll grooving tool to a Ridgid™ 700 Power Drive
- Tool Weight: 37 lbs. | 17 kg
  Optional Power Drive Kit Weight: 75 lbs. | 34 kg

Field Portable Roll Grooving Tools

**RG3600 StrengThin™ 100 Portable Groover**

**Download publication 24.08 for complete information**

- Roll grooves 2 – 12” | DN50 – DN300 1.4301/1.4307 (Type 304/304L) or 1.4401/1.4404 (Type 316/316L) stainless steel pipe per EN 10217-7;
  2 – 6” | DN50 – DN150, 1.6 – 2.7 mm wall thickness and 8 – 12” | DN200 – DN300, 2.0 – 4.5 mm wall thickness
- Drive Requirements: Compatible with REMS Amigo 2 and Ridgid™ 700 power drive
- Power Requirements: 230 VAC 50/60 hertz
- Optional tripod stand kit available
- Tool Weight: 29 lbs. | 55 kg
- Regional availability, contact Victaulic for details
Field Fabrication Roll Grooving Tools

VE106/VE107 GROOVE-N-GO

Download publication 24.01 for complete information

- Roll grooves 1¼ – 6” | DN32 – DN150 pipe
- For grooving of Schedule 5, 10 and 40 steel and stainless steel pipe; K, L, M and DWV copper tube (size dependent)
- 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
- ¾” | 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

Field Fabrication Roll Grooving Tools

STYLE VE206

Download publication 24.01 for complete information

- Roll grooves 1¼ – 6” | DN32 – DN150
- For grooving of Schedule 5, 10 and 40 steel and stainless steel pipe; K, L, M and DWV copper tube (size dependent)
- Tool head mounts to any tripod stand with a Ridgid™ 300 bolt pattern or the flat bed of a work truck
- Hydraulic hand pump can be mounted on either side of the tool for right or left hand operation
- Supplied with Victaulic® tool carry bag for accessory storage
- Power Requirements: compatible with multiple power drive units: Ridgid™ 300, Ridgid™ 700 and REMS Amigo 2
- Weight: 165 lbs. | 75 kg
Field Fabrication Roll Grooving Tools
VE270FSD/VE271FSD

**Download publication 24.01 for complete information**

- Roll grooves ¾ – 12” | DN20 – DN300 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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: Ridgid™ 300 Power Drive
- Weight: 184 lbs. | 84 kg

Field Fabrication Roll Grooving Tools
VE272SFS

**Download publication 24.01 for complete information**

- Roll grooves ¾ – 12” | DN20 – DN300 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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: Ridgid™ 300 Power Drive
- Weight: 340 lbs. | 154 kg
Field Fabrication Roll Grooving Tools

VE416FS

Download publication 24.01 for complete information

- Roll grooves 2 – 16” | DN50 – DN400 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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. 127
- Equipped with a pipe stabilizer for 6 – 16” | DN150 – DN400 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: Ridgid™ 300 Power Drive
- Weight: 240 lbs. | 109 kg

Field Fabrication Roll Grooving Tools

VE416FSD/VE417FSD

Download publication 24.01 for complete information

- Roll grooves 2 – 16” | DN50 – DN400 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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. 127
- Groove depth adjuster allows for easy adjustment for initial groove diameter
- Completely self-contained unit with integral gear motor, 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
Field Fabrication Roll Grooving Tools
VE450FSD

**Download publication 24.01 for complete information**

- Roll grooves 4 – 24" | DN100 – DN600 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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

Field Fabrication Roll Grooving Tools
RG3210

**Download publication 24.18 for complete information**

- Roll grooves 2 – 12" | 60.3 – 323.9 mm pipe
- For grooving carbon steel wall thicknesses ranging from 2.77 – 6.35 mm
- Hydraulic-feed shop or field tool
- Anti-flare roll grooving capability to control pipe end flare
- Power Requirements: 220 volt, 1.5 kW, 50/60 hertz, Single Phase
- Weight: 302 lbs. | 137 kg
Plant/Shop Fabrication
Roll Grooving Tools
VE268

Download publication 24.01 for complete information

- Roll grooves ¾ – 12” | DN20 – DN300 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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

Plant/Shop Fabrication
Roll Grooving Tools
VE414MC

Download publication 24.01 for complete information

- Roll grooves 2 – 16” | DN50 – DN400 pipe
- For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe; K, L, M and DWV copper tube (size dependent)
- 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
Plant/Shop Fabrication
Roll Grooving Tools
50T

Download publication 24.03 for complete information

- Roll grooves 14 – 78” | DN350 – DN1950 pipe
- Wall thickness capability varies on size; Reference publication 24.03 for more details
- Production roll grooving tool designed for fabrication shop use
- Power Requirements: 480 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: 3800 lbs. | 1724 kg
Plant/Shop Fabrication
Roll Grooving Tools
VE460

Download publication 24.03 for complete information

• Roll grooves 4 – 24” | DN100 – DN600 pipe with Original Groove System (OGS)

• For grooving of Schedule 5, 10, 40 and 80 steel; stainless steel; aluminum and PVC pipe (size dependent)

• Roll grooves 14 – 60” | DN350 – DN1500 pipe with Advanced Groove System (AGS)

• For grooving of .250 – .500 wall carbon steel; Schedule 5S and 10S stainless steel (size dependent)

• 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” | DN650 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

victaulic.com
Pipe Preparation Tools

Plant/Shop Fabrication
Roll Grooving Tools
RG5200i

**Download publication 24.05 for complete information**

- Fully-automated, hydraulic shop tool is shipped fully assembled with proximity scanner, control stand and rolls for standard grooving Schedule 10–40 pipe
- Available with stainless steel roll sets (4–12” | DN100–DN300)
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Drive Requirements: self-contained
- Power Requirements: 208/240 volt, 3-phase, 50/60 hertz standard; the tool can also be supplied for use with various global voltage connections, contact Victaulic for details
- 3-phase requires tool power to be hard wired by a local certified electrician
- Weight: 1300 lbs. | 590 kg

Field Fabrication Cut Grooving Tools
VG VIC-GROOVER

**Download publication 24.01 for complete information**

- Cut grooves ¾ – 8” | DN20 – DN200 pipe
- For grooving of Schedule 40 through 80 steel; stainless steel; aluminum and CPVC/PVC pipe; Class 53 Min ductile iron (size dependent)
- 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 local/regional safety requirements
- Drive Speed: 40rpm max.
- Weight: 28 lbs. | 13 kg
Field Fabrication Cut Grooving Tools

VG28GD (GEAR DRIVE)
VG28GD-ABR (ABRASION)
VDG26GD (DOUBLE GROOVE)
VG26GD-COR (CORROSION)

Download publication 24.01 for complete information

- Cut grooves 2 – 8” | DN50 – DN200 pipe
- For grooving of Schedule 40 through 80 steel; stainless steel and aluminum pipe; Class 53 Min ductile iron (size dependent)
- VG28GD will produce a single Victaulic® OGS cut groove for unlined piping systems
- VG28GD-ABR will produce a single Victaulic OGS cut groove that allows for lining of the pipe for abrasive services
- VDG26GD will produce a double Victaulic OGS cut groove for high pressure systems in conjunction with installing the 6” | DN150 Style 808 couplings
- VG26GD-COR will cut groove carbon steel pipe in preparation for being rubber lined and machined for abrasion and corrosion resistance
- The VG28GD, VG28GD-ABR, VDG26GD, and VG26GD-COR are designed to be driven by the Power Mule II
- Drive Requirements: external drive, min. 1½ hp | 1.12 kw
- Drive Speed: 38 rpm max.
- Weight: 37 lbs. | 17 kg
Field Fabrication Cut Grooving Tools

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

Download publication 24.01 for complete information

- Cut grooves 8–24" | DN200–DN600 pipe
- For grooving of Schedule 30 through 80 steel; stainless steel and aluminum pipe; Class 53 Min ductile iron (size dependent)
- VG824 will produce a single Victaulic® OGS cut groove for unlined piping systems
- VG824-ABR will produce a single Victaulic OGS cut groove that allows for lining of the pipe for abrasive services
- VG824DG will produce a double Victaulic OGS cut groove for high pressure piping systems in conjunction with installing 8–12" | DN200–DN300 Style 808 couplings
- VG824-COR will cut groove carbon steel pipe in preparation for being rubber lined and machined for abrasion and corrosion resistance
- The VG824, VG824DG, VG824-ABR and VG824-COR are designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1½ hp | 1.12 kw
- Drive Speed: 38 rpm max.
- Weight: 82 lbs. | 37.2 kg
Field Fabrication Cut Grooving Tools

VG828 (AGS)

Download publication 24.01 for complete information

- Cut grooves 14 – 24” | DN350 – DN600 pipe
- For grooving of .500 – .750 wall steel pipe
- VG828 will produce a single Victaulic® AGS cut groove
- The VG828 is designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1½ hp | 1.12 kw
- Drive Speed: 38 rpm max.
- Weight: 82 lbs. | 37.2 kg

Field Fabrication Cut Grooving Tools

VG412 ORBITAL MACHINING TOOL

Download publication 24.01 for complete information

- Cut grooves 4 – 12” | DN100 – DN300 pipe
- For grooving of Schedule 40 through 80 steel; Class 53 Min ductile iron
- 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
Cut Grooving Tools for Plastic Pipe
CG1100

Download publication 24.09 for complete information

- Cut grooves 2 – 12” | DN50 – DN250 pipe
- For grooving of Schedule 40 through 80 CPVC/PVC pipe
- Features the Victaulic® PGS-300 cut groove profile
- Power Requirements: 120 volt, 50/60 hertz, 7 amp
- Weight: 17 lbs. | 7.7 kg

Cut Grooving Tools for Plastic Pipe
VPG824

Download publication 24.01 for complete information

- Cut grooves 8 – 16” | DN200 – DN400 pipe
- For grooving of Schedule 40 through 80 PVC pipe
- 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
Pipe Preparation Tools

Field Fabrication Cut Grooving Tool for HDPE Pipe
CG3100, CG3300, CG3500 (HDPE)

Download publication 24.06 for complete information

- Cut grooves 8–36” IPS and 250–900mm ISO HDPE pipe
- For grooving of SDR 7–21 pipe
- The tool mounts on the exterior pipe wall and cuts and grooves the end of the pipe in a single operation
- The CG3100 and CG3300 tools connect directly to a 120 volt, 50/60 hertz, 20 amp power source (An optional 220 volt, single phase, 50/60 hertz model is also available)
- The CG3500 tool connects directly to a 220 volt, single phase, 50/60 hertz, 20 amp power source
- Weight: CG3100: 430 lbs. | 195 kg, CG3300: 580 lbs. | 263 kg, CG3500: 715 lbs. | 324 kg

Aquamine™ Grooving Tool
APG

Download publication 24.01 for complete information

- Prepares 4 – 12” | DN100 – DN300 Aquamine pipe
- Manually operated tool used for producing a cut spline groove and beveled end on Aquamine PVC pipe
- 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

HCT904

Download publication 24.01 for complete information

- One-piece hole cutting tool designed to cut holes up to 2¾” | 70 mm in carbon and stainless steel pipe; for pipe sizes up to 8” | DN200
- Allows use of Mechanical-T outlets, strapless outlets, and strapless thermometer outlets
- Power Requirements: 220 volt, single phase, 60 hertz, 10 amp
- Weight: 23 lbs. | 10 kg
- Regional availability, contact Victaulic for details

Hole Cutting Tools

HCT908

Download publication 24.01 for complete information

- One-piece hole cutting tool designed to cut holes up to 2¾” | 70 mm in carbon and stainless steel pipe; for pipe sizes up to 8” | DN200
- Allows use of Mechanical-T outlets, strapless outlets, and strapless thermometer outlets
- Power Requirements: 110 volt, single phase, 60 hertz, 7 amp
- Weight: 23 lbs. | 10 kg
Hole Cutting Tools

**VHCT900**

**Download publication 24.01 for complete information**

- Three-piece hole cutting tool designed to cut holes up to 4½“ | 120 mm in diameter for *Mechanical-T* outlets, strapless outlets, and strapless thermometer outlets
- Base unit clamps quickly onto the pipe in vertical, horizontal or overhead positions
- Available extended chain for 10 – 24“ | DN250 – DN600 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

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Hole Cutting Tools

**VIC-TAP II**

**Download publication 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 | 3447 kPa | 34 bar
- Hole size 2 3⁄8“ | 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“ | DN100, 5“ | 141.3 mm, 6“ | DN150 and 8“ | DN200 available)
- Standard Capability: 4 – 8“ | DN100 – DN200 Run outlet only x 2½“ | 73.0 mm (IPS) Outlet
Pipe Preparation Tools

Style 926 Spigot Hole Cut Saw for HDPE Pipe

Download publication 11.07 for complete information

- Designed to cut 4" | DN100 and 6" | DN150 holes in HDPE pipe
- Allows use of Style 926 Mechanical-T Spigot Outlet

QuickVic™ SD Cut and Mark Tool
PC3110

Download publication 34.01 for complete information

- Lightweight pipe cut-off tool handles ½ – 2" | DN15–DN50 Schedule 10–80 carbon steel pipe
- Marks the outside diameter of the pipe with insertion marks for proper installation of the QuickVic™ SD couplings and fittings
- Designed for use on a power drive
- Power Requirements: NA
- Weight: 10.3 lbs. | 4.7 kg
Pipe Cut-Off Tools
VCT1 MANUAL

Download publication 24.01 for complete information

- Lightweight and portable pipe cut-off tool handles 4 – 24” | DN100 – DN600 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 publication 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
Pipe Preparation Tools

Vic-Press™ Tools
PFT510

Download publication 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” | DN15, ¾” | DN20, 1” | DN25, 1½” | DN40, and 2” | DN50, 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” | DN25 jaw)

Tool Accessories
POWER MULE II

Download publication 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 publication 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" | DN20 – DN300 pipe
- Load rating: 1,075 lbs. | 490 kg
- Vertical stroke: The legs adjust from 8½" | 216 mm to achieve table height of 23" | 584 mm
- Minimum pipe height from floor:
  - 23" | 584 mm on 12" | DN300 pipe and
  - 21" | 533 mm on 1" | DN25 pipe
- Weight: 190 lbs. | 86 kg

Tool Accessories
VAPS224 ADJUSTABLE PIPE STAND

Download publication 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" | DN50 – DN600 pipe
- Load rating: 1,800 lbs. | 816 kg
- Vertical stroke: 23" | 584 mm
- Minimum pipe height from floor:
  - 13" | 325 mm on 24" | DN600 pipe
  - 38" | 965 mm on 2" | DN50 pipe
- Weight: 260 lbs. | 118 kg
Tool Accessories
VAPS1672 ADJUSTABLE PIPE STAND

**Download publication 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 VE460 grooving tools
- Capacity: 16 – 72" | DN400 – DN1800 pipe
- Load rating: 10,000 lbs. | 4535 kg
- Vertical Stroke: 17" | 425 mm
- Minimum pipe height from floor 16" | 406 mm on 72" | DN1800 pipe
- Maximum pipe height from floor 28" | 711 mm on 16" | DN400 pipe
- Weight: 480 lbs. | 218 kg

Tool Accessories
VAPS270 ADJUSTABLE PIPE STAND

**Download publication 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 VE270FSD, VE271FSD and VE272SFS grooving tools
- Capacity: ¾ – 12" | DN20 – DN300 pipe
- Load rating: 660 lbs. | 300 kg
- Turnstile design allows grooving of both pipe ends without dismounting pipe from stand
- Minimum pipe height from floor: 25" | 630 mm
- Maximum pipe height from floor: 37" | 930 mm
- Weight: 44 lbs. | 20 kg
- Regional availability, contact [Victaulic](https://www.victaulic.com) for details
Tool Accessories

GROOVE DIAMETER CABLES FOR COPPER TUBING

Go/No-Go pocket-sized groove diameter cables for taking circumferential measurements of copper tubing:

- GDC-CTS cable should only be used to check roll-grooved tubing to CTS Standard Types K, L, M hard-drawn copper tubing per ASTM B-88 and DMV per ASTM B-306 specifications (2–8” | 54.0 – 206.4 mm tubing sizes)

- GDC-EC cable should only be used to check roll-grooved tubing to European Standard EN 1057 R250 (Half-Hard) specifications (54 – 159 mm tubing sizes).

- GDC-AC cable should only be used to check roll-grooved tubing to Australian Standard AS 1432 Types A, B and D copper tubing specifications (50 – 200 mm tubing sizes)

GROOVE DIAMETER CABLE FOR VICTAULIC® STRENGTHIN™ 100 SYSTEM FOR THIN WALL STAINLESS STEEL

Go/No-Go pocket-sized groove diameter cables are available for taking circumferential measurements on stainless steel pipe in sizes 2 – 12” | DN50 – DN300

- GDC-STRENGTHIN100 cable should only be used to check roll grooved pipe conformance to Victaulic StrengThin 100 groove diameter specifications

- To ensure proper grooving dimensions, always refer to the I-E497 StrengThin 100 Installation instructions or to the latest groove specifications publications located on victaulic.com

GROOVE DIAMETER CABLE FOR VICTAULIC PGS-300 SYSTEM FOR CPVC/PVC PIPE

Go/No-Go pocket-sized groove diameter cables are available for taking circumferential measurements on CPVC/PVC pipe in sizes 2 – 12” | DN50 – DN300

- GDC-PGS-300 cable should only be used to check cut grooved pipe conformance to Victaulic PGS-300 groove diameter specifications

- This cable is a quick reference guide and is not a replacement for a calibrated diameter measuring instrument. To ensure proper grooving dimensions, always refer to the relevant installation instructions or to the latest groove specifications publication located on victaulic.com.
Pipe Preparation Tools

Tool Accessories
PT100A, PT101 AND PT102A

Download publication 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 pipe 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" | DN20 – DN600 pipe; tape marked with 0.01" | 0.25 mm increments on the opposite side
- PT-101 contains Go/No-Go markings for use with DN20 – DN600 pipe; tape marked with 0.25 mm increments on the opposite side
- PT102A contains Go/No-Go markings for use with Original Groove System sizes 8 – 12" | DN200 – DN300 and Advanced Groove System sizes 14 – 72" | DN350 – DN1800; tape marked in 0.02" | 0.5 mm increments on the opposite side

Tool Accessories
RG1200 GROOVE CONFIRMATION GAUGE SET

- Supplied with RG1200 roll grooving tool for easy groove confirmation
- Does not require tool to be removed from pipe to check the groove depth
- Used in conjunction with the PT100A or PT101A depending on the region

HDPE GROOVE CONFIRMATION GAUGE SET

- Designed to check HDPE cut grooves to ensure they meet Victaulic specifications
- Always refer to the HDPE Field Installation Handbook (I-900) or Victaulic’s HDPE Cut Groove Specifications (publication 25.16)
**System Safety Test Accessories**

**NO. T-60 TEST CAP KIT**

*Download publication 24.07 for complete information*

- Allows user another means to verify system is unpressurized and empty of test media before continuing work
- Packaged in stackable, heavy-duty rolling case
- Includes 2–8" | DN50–DN200 IPS test caps
- Individual test caps 2–12" | DN50–DN300 can be ordered separately

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

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

*Download publication 24.01 for complete information*

- For specific information on the appropriate tool by coupling, please download individual coupling product publications
Fabrication Cell

VAP131

Download publication 24.01 for complete information

- Turn-key, fab-shop solution
- Maximizes 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

Hydraulic Adjustable Pipe Stand for Fabrication Cell

VAPS 131R

Download publication 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” | DN100 – DN600 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: 230 volt, 6 amp, 50 hertz (120 volt, 12 amp, 60 hertz option available)
- Weight: 500 lbs. | 227 kg
**Hydraulic Positioner** for Fabrication Cell

**VAPS 131F**

*Download publication 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” | DN100–DN600 pipe; load rating: 1200 lbs. | 544 kg with wheels installed, 2000 lbs. | 907 kg without wheels
- Vertical stroke: 29.25” | 743 mm
- Power Requirements: 230 volt, 6 amp, 50 hertz (120 volt, 12 amp, 60 hertz option available)
- Weight: 400 lbs. | 181 kg

**Assembly Table for Fabrication Cell**

**VAPS 131T**

*Download publication 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” | DN50–DN600
- Capacity: 4–24” | DN100–DN600 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
Victaulic offers a broad variety of synthetic rubber gaskets suitable for a wide range of applications. Victaulic® gaskets can accommodate high and low temperature extremes without loss of their chemical and physical properties. Refer to the Victaulic Seal Selection Guide, publication 05.01 for a complete list.

For specific chemical and temperature compatibility, refer to the Victaulic Gasket Chemical Services Guide — Long Report (GSG-100) located on victaulic.com.
Gaskets/Seals/O-Rings

Gasket Seal Data

Victaulic offers a variety of synthetic elastomeric gaskets for a wide range of applications. To assure the maximum life for the service intended, proper gasket selection is essential.

Many factors can affect the performance and longevity of a gasket. These factors include, but are not limited to temperature, fluid, concentrations, a combination of fluids and duration of service. Temperatures outside of the design limits or use with incompatible fluids can reduce the performance capability of the gasket and service life.

Services listed are General Service Guidelines for each of the three associated product areas. It should be noted that there are services for which these gaskets, seals and o-ring are not compatible. Reference should always be made to the Gasket Chemical Services Guide for each Victaulic® gasket Grade for specific service guidelines and for a listing of services which are not compatible.

Gasket, seals and o-ring guidelines apply only to Victaulic gaskets, seals and o-ring. Guidelines for a particular service does not necessarily imply compatibility of the coupling housing, related fittings, or other components for the same service. Victaulic gaskets are marked with the gasket size, style, and associated compound for identification.

Potable Water

Grade “E” EPDM, Grade “E” Vic-Plus™, Grade “EHP”, Grade “EHP” Vic-Plus, Grade “E2” and Grade “EW” gaskets are 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.

Similarly, Victaulic Grade “M” halogenated butyl gasket material (which is used with Victaulic ductile iron pipe sized products) is UL Classified in accordance with ANSI/NSF 61 for cold +73°F | +23°C potable water systems and ANSI/NSF 372. See Victaulic Publication 02.06 for more details.

The data provided is intended for use as an aid to qualified designers and specifiers when products are installed in accordance with the latest available Victaulic product line.

Valve Seals

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

Reference Materials

02.06: Victaulic Potable Water Approvals ANSI/NSF
05.01: Victaulic Seal Selection Guide
05.02: Victaulic Lubricant MSDS Sheet
05.02-EU: Victaulic Lubricant MSDS Sheet (Europe Only)
05.03: Victaulic Vic-Plus™ MSDS Sheet
GSG-100: Victaulic Gasket Chemical Services Guide — Long Report

CAUTION

• To ensure maximum product performance for the intended service, always specify the proper elastomer or seal material. Refer to the “Gasket Selection” and Chemical Services” sections located within this document.

• For specific chemical and temperature compatibility, always refer to the “Gasket Chemical Services Guide — Long Report” (GSG-100), which can be downloaded at victaulic.com.

Failure to select and specify the proper elastomer or seal material for the intended service may cause joint failure, resulting in property damage.

victaulic.com
Design Data

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 quick reference guide, see pg. 152. 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 14–78” DN350–DN1950 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 Seal Selection Guide (download publication 05.01) for specific gasket service recommendations and for a listing of services which are not recommended. Gaskets for Victaulic products always must be lubricated for proper assembly. Gasket lubricant must meet manufacturer’s specifications. Thorough lubrication of the gasket exterior, 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 or Manual for the product you are installing.

Handbooks and Manuals 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.
Reference Guide

**Original Groove System (OGS)**

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- VHCT900 Hole Cutting Tool
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- — Style 926 Spigot Hole Cut Saw for HDPE Pipe
- PC3110 QuickVic™ SD Cut and Mark Tool
- VCT1 Manual Pipe Cut-Off Tool
- VCT2 Automatic Pipe Cut-Off Tool
- PFT510 Vic-Press™ Tool
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- — Pipe Measurement Tools
- No. T-60 Test Cap Kit
- CTM-01 VBSP Small Manual Closure Tool
- CTM-02 VBSP Large Manual Closure Tool
- CTH-01 VBSP Small 10-Ton Hydraulic Closure Tool
- CTH-02 VBSP Large 25-Ton Hydraulic Closure Tool
- VAP131 Fabrication Cell
- VAPS 131R Hydraulic Adjustable Pipe Stand for Fabrication Cell
- VAPS 131F Hydraulic Positioner for Fabrication Cell
- VAPS 131T Assembly Table for Fabrication Cell

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