VICTAULIC® WORLDWIDE

North and South America

UNITED STATES AND WORLD HEADQUARTERS
4901 Kesslersville Road
Easton, PA 18040 USA
1 800 742 5842
(within North America)
1 610 559 3300
pickvic@victaulic.com

CANADA
123 Newkirk Road
Richmond Hill
Ontario L4C 3G5 Canada
1 905 884 7444
viccanada@victaulic.com

MEXICO
Calle Circuito del Marques
No 8 al 11
Parque Industrial El Marques
Municipio El Marques
Queretaro, Mexico
CP 76246
52 442 253 0066
vical@victaulic.com

BRAZIL
Av. Marquês de São Vicente
446 Cj. 1303
Vila Olímpia Fundão – São Paulo SP
CEP 01390-000 – Brazil
11 3548 4280
vicbr@victaulic.com

Europe, Middle East, Africa and India

BELGIUM
Prijkelstraat 36
9880 Nazareth, Belgium
32 9 381 15 00
vicuro@victaulic.com

UNITED KINGDOM
Units B1 & B2, SGI Industrial Park
Cockerdale Close, Gurneys Wood Road
Stevenage, Hertfordshire, UK
SG1 1TQ
44 1438 310 680
vicuro@victaulic.com

GERMANY
LOGICPARK
Gutenbergtorstrasse 19
D-64331 Weiterstadt, Germany
49 6151 9573 0
vicuro@victaulic.com

ITALY
Via M. Raggi 23/B
27022 Carso Frim, Italy
39 090 500 256
vicuro@victaulic.com

UNITED ARAB EMIRATES
P.O. Box 17483, U.H K B
Jebel Ali Free Zone
Dubai, United Arab Emirates
971 4 883 88 70
vicuro@victaulic.com

INDIA
India Land Global Industrial Park
Plat 4, Hinjewadi, Phase-1, Mulshi
Pune 412057, India
91 20 67 919 300
vicuro@victaulic.com

CHINA
Unit 808, Building B
Hongqiao International Plaza
No.1602 West Zhanghe Road
Shanghai, China 200235
86 21 6021 9400
vicap@victaulic.com

KOREA
4F, Soel Building, 1430-5,
Seocho-Dong, Seocho-Gu
Seoul, Korea 137-070
82 2 521 7235
vicap@victaulic.com

TAIWAN
No. 55, NewGang Rd, LuJhu Township
TaiYuan County, Taiwan 338
886 3 222 3220
vicap@victaulic.com

AUSTRALIA AND NEW ZEALAND
7 Chambers Road
Unit 1
Altona North, Victoria
Australia 3025
1 300 PIC VIC
1 300 742 842
(within Australia)
0 508 PICK VIC
0 508 742 842
(wh/n New Zealand)
61 3 9392 4000
vicaust@victaulic.com

For additional locations, information and support, visit victaulic.com/contactus.
WHERE INNOVATION AND SOLUTIONS ARE JOINED TOGETHER
Since the first patent in 1919, Victaulic® has delivered innovative pipe joining solutions that help customers succeed worldwide. Look inside many of the world’s most recognizable landmarks and industrial facilities, and you’ll find Victaulic® solutions at work making bold design innovations possible, speeding time to completion, allowing for unpredictable seismic movements and setting the stage for scalability.

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

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

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

victaulic.com
THE VICTAULIC®
DIFFERENCE

GROOVED PIPE JOINING TECHNOLOGY

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

Types of grooved couplings
• Flexible coupling – allows for controlled linear and angular movement, which accommodates pipeline deflection as well as thermal expansion and contraction.
• Rigid coupling – does not allow for movement, similar to a flanged or welded joint.
At the core of all the benefits that Victaulic® solutions bring to a project – such as productivity, safety, design flexibility and quality – are the unique features of our products.

**VICTAULIC® GROOVED END PIPING SYSTEMS PROVIDE:**

- **Rigidity** – with an angled 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 stress absorption.

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

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

- **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 pad design that provides positive clamping of the pipe to resist torsional and flexural loads.
Original Groove System (OGS)

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

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

Original Groove System (OGS)

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For global pipe size designations, download product submittals.
## Original Groove System (OGS)

![Image of grooved system](image_url)

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### Strainers and Diffusers

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<tr>
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<td>21</td>
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<td>732</td>
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### Specialty Products

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<td>Style 926</td>
<td>24</td>
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For global pipe size designations, download product submittals.

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victaulic.com
QuickVic® Rigid Coupling
STYLE 107

Download submittal 06.21 for complete information

- Angled bolt pad provides rigidity
- Sizes from DN50 – DN300 | 2 – 12"
- Pressures up to 750 psi | 5171 kPa | 52 bar
- For coating options, download product submittal

QuickVic® Flexible Coupling
STYLE 177N

Download submittal 06.24 for complete information

- Sizes from DN50 – DN150 | 2 – 6"
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- For coating options, download product submittal

Composite Flexible Coupling
STYLE 171

Download submittal 06.22 for complete information

- For use where corrosive conditions exist
- Designed for use on reverse osmosis systems
- For use on roll/cut grooved PVC
- Sizes from DN40 – DN100 | 1½ – 4"
- Pressures up to 150 psi | 1034 kPa | 10 bar
- For stainless steel and FRP applications, contact Victaulic®
Zero-Flex® Rigid Coupling

**STYLE 07**

*Download submittal 06.02 for complete information*

- Angled bolt pad provides rigidity
- Sizes from DN25 – DN300 | 1 – 12”
- Pressures up to 750 psi | 5171 kPa | 52 bar
- For coating options, download product submittal
- For sizes DN350 – DN1250 | 14 – 50”, [download submittal 20.02](#) for information on AGS Style W07

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Flexible Coupling

**STYLE 77**

*Download submittal 06.04 for complete information*

- Cross-ribbed, two piece housing construction
- Sizes from DN20 – DN600 | ¾ – 24”
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- For coating options, download product submittal
- For sizes DN350 – DN1800 | 14 – 72”, [download submittal 20.03](#) for information on AGS Style W77

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Flexible Coupling

**STYLE 75**

*Download submittal 06.05 for complete information*

- Lightweight coupling for moderate pressures
- Sizes from DN25 – DN200 | 1 – 8”
- Pressures up to 500 psi | 3447 kPa | 34 bar
- For coating options, download product submittal

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**Approvals/Listings:**

- ULc Listed
- FM
- VdS
- LPCB 104-14:02
- DVGW

*Download publication 10.01 for complete information*

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**Original Groove System (OGS)**

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**victaulic.com**
## Reducing Coupling

**STYLE 750**

Download submittal 06.08 for complete information

- Replaces two couplings and a reducing fitting
- Sizes from DN50 – DN250 | 2 – 10”
- Pressures up to 500 psi | 3447 kPa | 34 bar
- For coating options, download product submittal

## Snap-Joint® Coupling

**STYLE 78**

Download submittal 06.09 for complete information

- Designed for quick disconnect service
- Sizes from DN25 – DN200 | 1 – 8”
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal

## Outlet Coupling

**STYLE 72**

Download submittal 06.10 for complete information

- Joining device to provide an integral reducing outlet
- Sizes from DN40 – DN150 | 1½ – 6”
- Pressures up to 500 psi | 3447 kPa | 34 bar
- For coating options, download product submittal
Original Groove System (OGS)

Vic-Boltless® Coupling and Tool
STYLES 791 AND 792

Download submittal 06.11 for complete information

- Provides a secure, tamper resistant, low profile joint
- Installed only with Victaulic® Style 792 tool
- Sizes from DN50–DN200 | 2–8"
- Pressures up to 700 psi | 4826 kPa | 48 bar
- For coating options, download product submittal

Approvals/Listings:

Download publication 10.01 for complete information

High Pressure Rigid Coupling
STYLE HP-70

Download submittal 06.12 for complete information

- Heavy housing for high pressure service
- Sizes from DN50–DN400 | 2–16"
- Pressures up to 1000 psi | 6895 kPa | 69 bar
- For coating options, download product submittal

Approvals/Listings:

Download publication 10.01 for complete information

XL Couplings for use with XL Fittings
Style XL77 and XL79

Download submittal 07.07 for complete information

- For use with XL (extended life) fittings
- Style XL77 for pipe-to-fitting connections
- Style XL79 for fitting-to-fitting connections
- Sizes from DN80–DN300 | 3–12"
- Pressures up to 1000 psi | 6895 kPa | 69 bar

Style XL77
Pipe-to-Fitting Connections

Style XL79
Fitting-to-Fitting Connections

XL System for Rubber Lined Services
See pg.24 for information.

victaulic.com
**Vic-Ring® Coupling**

**STYLE 41**

*Download submittal 16.04 for complete information*

- Provided with a variety of ring options to maintain full pipe wall thickness for abrasive systems
- Sizes from DN750 – DN1675 | 30 – 66"
- Pressures up to 90 psi | 621 kPa | 6 bar
- For coating options, download product submittal
- For AGS Vic-Ring® products, see pg. 28

**Vic-Ring® Coupling**

**STYLE 44**

*Download submittal 16.05 for complete information*

- Provided with a variety of ring options to maintain full pipe wall thickness for abrasive systems
- Sizes from DN100 – DN1500 | 4 – 60"
- Pressures up to 175 psi | 1207 kPa | 12 bar
- For coating options, download product submittal
- For AGS Vic-Ring® products, see pg. 28
Original Groove System (OGS)

Vic-Flange® Adapter

STYLE 743

Download submittal 06.06 for complete information

- ANSI Class 125 and 150, Australian Standard Table E, PN10/16, and JIS 10K
- Sizes from DN50–DN600 | 2–24"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal
- For AGS sizes DN350–DN600 | 14–24", download submittal 20.04 for information on AGS Style W741

Approvals/Listings:

Download publication 10.01 for complete information

Vic-Flange® Adapter

STYLE 741

Download submittal 06.06 for complete information

- ANSI Class 125 and 150, Australian Standard Table E, PN10/16, and JIS 10K
- Sizes from DN50 – DN600 | 2 – 24"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal
- For AGS sizes DN350 – DN600 | 14 – 24”, download submittal 20.04 for information on AGS Style W741

Approvals/Listings:

Download publication 10.01 for complete information

victaulic.com
Original Groove System (OGS)

Fittings — Elbows

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

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from DN20 – DN600 | ¾ – 24"
- Download product submittal for the following: coating options; standard thread options; flange bolt hole pattern options
- For AGS sizes DN350 – DN1500 | 14 – 60", download submittal 20.05 for complete information

Elbows

<table>
<thead>
<tr>
<th>No.</th>
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<tbody>
<tr>
<td>No. 10</td>
<td>90° Elbow</td>
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<tr>
<td>No. 100-1½D</td>
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<tr>
<td>No. 100-3D</td>
<td>90° 3 D Long Radius Elbow</td>
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<tr>
<td>No. 100-5D</td>
<td>90° 5 D Long Radius Elbow</td>
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<tr>
<td>No. 100-6D</td>
<td>90° 6 D Long Radius Elbow</td>
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<tr>
<td>No. 11</td>
<td>45° Elbow</td>
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<tr>
<td>No. 110-1½D</td>
<td>45° 1½ D Long Radius Elbow</td>
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<tr>
<td>No. 110-3D</td>
<td>45° 3 D Long Radius Elbow</td>
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<td>No. 110-5D</td>
<td>45° 5 D Long Radius Elbow</td>
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<tr>
<td>No. 110-6D</td>
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<td>No. 12</td>
<td>22½° Elbow</td>
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<td>11¼° Elbow</td>
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<td>No. 18</td>
<td>90° Adapter Elbows</td>
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<td>No. 19</td>
<td>45° Adapter Elbows</td>
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<tr>
<td>No. 10-DR</td>
<td>Drain Elbow</td>
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<tr>
<td>No. R-10G</td>
<td>Reducing Base Support Elbows (OGS Groove x OGS Groove)</td>
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<tr>
<td>No. R-10F</td>
<td>Reducing Base Support Elbows (OGS Groove x Flange)</td>
</tr>
</tbody>
</table>

Approvals/Listings:

Download publication 10.01 for complete information

For 3D, 5D and 6D long radius bends, download submittal 07.02

For coating options, download product submittal
Original Groove System (OGS)

Fittings — Tees, Crosses, Wyes and Laterals

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

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from DN20 – DN600 | ¾” – 24”
- Download product submittal for the following: coating options; standard thread options
- For AGS sizes DN350 – DN1500 | 14” – 60”, download submittal 20.05 for complete information

Tees, Crosses, Wyes, and Laterals

- No. 20 Tee
- No. 35 Cross
- No. 33 True Wye
- No. 29M Tee with Threaded Branch

- No. 25 Grooved Branch Reducing Tee
- No. 29T Threaded Branch Reducing Tee
- No. 21 Bullhead Tee

- No. 30 45° Lateral
- No. 30-R 45° Reducing Lateral
- No. 32 Tee Wye
- No. 32-R Reducing Tee Wye

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Adapters, Nipples, Caps and Plugs

No. 40 Adapter Nipple (OGS Groove × Thread)
No. 42 Adapter Nipple (OGS Groove × Bevel)
No. 43 Adapter Nipple (OGS Groove × OGS Groove)
No. 80 Female Threaded Adapter
No. 53 Swaged Nipple (OGS Groove × OGS Groove)
No. 54 Swaged Nipple (OGS Groove × Thread)
No. 55 Swaged Nipple (Thread × OGS Groove)
No. 60 Cap
No. 61 Bull Plug
No. 48 Hose Nipple
No. 41 ANSI Class 125 Flanged Adapter Nipple
No. 41-DN ANSI Class 150 Flanged Adapter Nipple
No. 45F ANSI Class 150 Flat Face Flanged Adapter Nipple
No. 45R ANSI Class 150 Raised Face Flanged Adapter Nipple
No. 46F ANSI Class 300 Flat Face Flanged Adapter Nipple
No. 46R ANSI Class 300 Raised Face Flanged Adapter Nipple

Download publication 10.01 for complete information on original grooved end fittings for carbon steel pipe

Fittings — Adapters, Nipples, Caps and Plugs

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from DN20 – DN600 | ¾ – 24”
- Download product submittal for the following: coating options; standard thread options; flange bolt hole pattern options
- For AGS sizes DN350 – DN1500 | 14 – 60”, download submittal 20.05 for complete information

Approvals/Listings:

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

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from DN20 – DN600 | ¾ – 24”
- Download product submittal for the following: coating options; standard thread options; flange bolt hole pattern options
- For AGS sizes DN350 – DN1500 | 14 – 60”, download submittal 20.05 for complete information

Download publication 10.01 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 DN20 – DN600 | ¾ – 24”
- Download product submittal for the following: coating options; standard thread options; flange bolt hole pattern options
- For AGS sizes DN350 – DN1500 | 14 – 60”, download submittal 20.05 for complete information

Original Groove System (OGS)

Approvals/Listings:
### Fittings — Reducers

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

- Standard fitting pressure ratings conform to ratings of installed coupling
- All fittings supplied with grooves or shoulders for fast installation
- Fittings available from DN20 – DN600 | ¾″ – 24″
- Download product submittal for the following: coating options; standard thread options
- For AGS sizes DN350 – DN1500 | 14″ – 60″, **download submittal 20.05** for complete information

### Other Fitting Systems

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

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

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

**Download submittal 07.06** for shouldered steel fittings

**Download submittal 07.07** for XL fittings

**Download submittal 14.04** for plain end fittings

**Download submittal 17.16** for stainless steel fittings

**Download submittal 18.11** for Type 316 Vic-Press® fittings

**Download submittal 18.12** for Type 304 Vic-Press® fittings

**Download submittal 20.05** for **408** fittings

**Download submittal 21.03** for aluminum fittings

**Download submittal 22.04** for CTS copper fittings, **22.10** for Australian Standard copper fittings, **22.11** for EN1057 standard copper fittings

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

**Download submittal 50.01** for Aquamine® fittings
**Original Groove System (OGS)**

**Mover® Expansion Joint**

**STYLE 150**

*Download submittal 09.04 for complete information*

- Slip-type expansion joint providing up to 76 mm | 3" axial end movement
- Sizes from DN50 – DN150 | 2 – 6"
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For additional types of expansion joints, see pg. 37

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**Expansion Joint**

**STYLE 155**

*Download submittal 09.05 for complete information*

- Combination of 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 DN20 – DN300 | ¾ – 12"
- For coating options, download product submittal
- For AGS sizes DN350 – DN600 | 14 – 24", download submittal 20.12 for information on Style W155
- For additional types of expansion joints, see pg. 37
Vic-300® MasterSeal™ Butterfly Valve
SERIES 761

Download submittal 08.20 for complete information

- Designed for bi-directional, dead end services to full working pressure
- Available without handle, with gear operator, with lever lock handle and memory stop or with 10-position handle and memory stop
- Sizes from DN50 – DN300 | 2 – 12"$
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes DN350 – DN600 | 14 – 24", download submittal 20.06 for information on Series W761
- For AGS sizes DN650 – DN1200 | 26 – 48", download submittal 20.07 for information on Series W709

Butterfly Valve
SERIES 700

Download submittal 08.05 for complete information

- Two piece stem permits narrow disc design for low pressure drop performance
- Supplied standard with aluminum bronze disc, 316 stainless steel optional
- Sizes from DN40 – DN150 | 1½ – 6"
- Pressures up to 200 psi | 1379 kPa | 14 bar
Vic-Check® Valve
SERIES 716H

Download submittal 08.08 for complete information

- Features a stainless steel disc
- Sizes from DN50 – DN80 | 2 – 3"
- Pressures up to 365 psi | 2517 kPa | 25 bar
- For AGS sizes DN350 – DN600 | 14 – 24", download submittal 20.08 for information on Series W715

Vic-Check® Valve
SERIES 716

Download submittal 08.08 for complete information

- Features an elastomer encapsulated disc
- Sizes from DN100 – DN300 | 4 – 12"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes DN350 – DN600 | 14 – 24", download submittal 20.08 for information on Series W715

Venturi Check Valve
SERIES 779

Download submittal 08.10 for complete information

- Provides a variety of functions unlike any other measuring device
- Sizes from DN100 – DN350 | 4 – 14"
- Pressures up to 300 psi | 2068 kPa | 21 bar
Original Groove System (OGS)

Swinger® Swing Check Valve
SERIES 712

Download submittal 08.11 for complete information

- Features a stainless steel clapper
- Sizes from DN50–DN100 | 2–4”
- Pressures up to 300 psi | 2068 kPa | 21 bar

Swinger® Swing Check Valve
SERIES 713

Download submittal 08.11 for complete information

- Features a stainless steel clapper
- Available size is DN50 | 2”
- Pressures up to 1000 psi | 6895 kPa | 69 bar

Diverter Valve
SERIES 725

Download submittal 08.40 for complete information

- Provides 180° service on backfill paste lines for increased efficiency and reduced downtime
- Available in DN150 | 6”
- Pressures up to 1000 psi | 6895 kPa | 69 bar

victaulic.com
Vic®-Ball Valve
SERIES 721

Download submittal 08.14 for complete information

- Standard port, end-entry valve with a streamlined design for excellent flow characteristics
- Sizes from DN100–DN150 | 4 – 6"
- Pressures up to 800 psi | 5516 kPa | 55 bar

Vic®-Ball Valve
SERIES 726

Download submittal 08.23 for complete information

- High pressure standard port ball valve with grooved ends
- Available without handle, with a lever operator or a gear operator
- Sizes from DN40 – DN150 | 1½ – 6"
- Pressures up to 1000 psi | 6895 kPa | 69 bar

Ball Valve
SERIES 727

Download submittal 08.42 for complete information

- High pressure enhanced port NACE-compliant ball valve
- Up to 1/3 better flow than competitive standard port ball valves
- Floating ball reduces torque requirements
- Sizes from DN50 – DN150 | 2 – 6"
- Pressure up to 1500 psi | 10342 kPa | 103 bar
Brass Body Valve — Threaded
SERIES 722

Download submittal 08.15 for complete information

- Standard port, female threaded end valve constructed from forged brass
- Sizes from DN8–DN50 | ¼–2”
- Pressures up to 600 psi | 4137 kPa | 41 bar

Three Port Diverter Valve
SERIES 723

Download submittal 08.13 for complete information

- NACE MR-01-75 compliant, three-port ball valve with common bottom inlet for diverting flow 90° left or right
- Available without handle, with lever operator or gear operator
- Available in DN50 | 2” size
- Pressures up to 600 psi | 4137 kPa | 41 bar

Vic-Plug® Valve
SERIES 377

Download submittal 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 DN80–DN300 | 3–12”
- Pressures up to 175 psi | 1207 kPa | 12 bar
MTS Plug Valve
SERIES 465

Download submittal 17.36 for complete information

• Typically used in reverse osmosis desalination plants for on/off and control services
• Available without operator or with manual, pneumatic, hydraulic and electric actuators
• Sizes from DN50 – DN450 | 2 – 18"
• Pressures up to 1450 psi | 9997 kPa | 100 bar

Triple Service Assemblies
BUTTERFLY/CHECK VALVE

Download submittal 08.09 for complete information

• Assembles with Style 107 rigid couplings or Style 177 flexible couplings
• Sizes from DN65 – DN300 | 2½ – 12"
• Pressures up to 300 psi | 2068 kPa | 21 bar
• For AGS sizes DN350 – DN600 | 14 – 24", download submittal 20.18 for more information

Approvals/Listings:
Download publication 10.01 for complete information

Triple Service Assemblies
PLUG/CHECK VALVE

Download submittal 08.09 for complete information

• Provides shut-off, throttling with positive mechanical memory and non-slam check service in one unit
• Sizes from DN80 – DN300 | 3 – 12"
• Pressures up to 175 psi | 1207 kPa | 12 bar

Approvals/Listings:
Download publication 10.01 for complete information
Delta-Y Assemblies
STYLE DLY

Download submittal 07.08 for complete information

- Assembles with Style 107 rigid couplings, Series 761 Vic-300® MasterSeal™ butterfly valve and cast fittings
- Ideal for bulk cement/barite systems commonly found on offshore drilling platforms
- Sizes from DN125 – DN150 | 5 – 6"
- Pressures up to 300 psi | 2068 kPa | 21 bar
Original Groove System (OGS)

Suction Diffuser
SERIES 731-D

**Download submittal 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
- ANSI Class 150, Australian Standard Table E, PN10/16, GB, and JIS 10K
- Sizes from DN80 – DN300 | 3 – 12"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For AGS sizes DN350 – DN600 | 14 – 24", **download submittal 20.20** for information on Series W731-D

Vic-Strainer® Tee Type
SERIES 730

**Download submittal 09.02 for complete information**

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

Vic-Strainer® Wye Type
SERIES 732

**Download submittal 09.03 for complete information**

- Provides straight through flow for lower pressure drop
- Sizes from DN50 – DN300 | 2 – 12"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal
- For AGS sizes DN350 – DN600 | 14 – 24", **download submittal 20.19** for information on Series W732
### Original Groove System (OGS)

#### High Pressure Coupling

**STYLE 808**

*Download submittal 15.01 for complete information*

- Double-bolted coupling for use with Schedule 80 or heavier steel pipe
- Sizes from DN150–DN300 | 6–12"
- Pressures up to 4000 psi | 27579 kPa | 275 bar
- For coating options, download product submittal

#### High Pressure Ring Coupling

**STYLE 809**

*Download submittal 15.02 for complete information*

- Double-bolted coupling for use with Schedule 80 or heavier steel pipe
- Coupling engages directly onto rings (supplied with coupling) welded to the O.D. of the pipe
- Sizes from DN150–DN250 | 6–10"
- Pressures up to 3000 psi | 20684 kPa | 206 bar
Original Groove System (OGS)

EndSeal® System

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

- For plastic coated pipe or high pressure rigid systems
- Schedule 80 wall thickness for use with HP-70ES couplings
- Coupling sizes from DN50 – DN300 | 2 – 12” and Fitting sizes from DN50 – DN150 | 2 – 6”
- Pressures up to 2500 psi | 17237 kPa | 172 bar
- For coating options, download product submittal
Original Groove System (OGS)

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

Download submittal 07.07 for complete information

- 1½D and 3D elbows designed for 6 mm | ¼" extra lining resulting in up to three times the service life when compared to standard rubber lined fittings
- Sizes from DN80–DN300 | 3–12"
- Comes with Style XL77 flexible couplings for pipe-to-fitting and Style XL79 flexible couplings for fitting-to-fitting connections

Mechanical-T® Spigot Assemblies

STYLE 926

Download submittal 11.07 for complete information

- Mining tailings spigot assemblies for DN550–DN650 | 22–26" tailings lines
- Features stainless steel strap and 178 mm | 7" outlet saddle
- Utilizes existing Victaulic® product to complete assembly
- Outlets compatible with steel or HDPE piping systems
- Pressure up to 170 psi | 1172 kPa | 12 bar

victaulic.com
Victaulic® offers a comprehensive portfolio of Advanced Groove System (AGS) couplings for systems DN350 – DN1800 | 14 – 72” and a full range of DN350 – DN1500 | 14 – 60” 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.

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Advanced Groove System AGS®

2-piece design for faster installation

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

HOUSING
Wider housing profile for greater end load capability.

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

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

Original Groove System
AGS Stainless Steel Rigid Coupling  
STYLE W89

Download submittal 20.15 for complete information

- Wedge shaped coupling housing keys fully engage the patented AGS grooves to provide a rigid joint
- Sizes from DN350 – DN600 | 14 – 24"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal
- For original groove sizes DN50 – DN300 | 2 – 12", download submittal 17.24 for information on Style 89

AGS Rigid Coupling  
STYLE W07

Download submittal 20.02 for complete information

- First flat pad, metal-to-metal, rigid coupling to be offered in this size range
- Sizes from DN350 – DN1250 | 14 – 50"
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For coating options, download product submittal
- For original groove sizes DN25 – DN300 | 1 – 12" (Style 07), download submittal 06.02; For original groove featuring Installation-Ready™ technology sizes DN50 – DN300 | 2 – 12" (Style 107), download submittal 06.21

AGS Flexible Coupling  
STYLE W77

Download submittal 20.03 for complete information

- Unique wedge shaped key profile increases allowable pipe end separation
- Sizes from DN350 – DN1800 | 14 – 72"
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For coating options, download product submittal
- For original groove sizes DN20 – DN600 | ¾ – 24" (Style 77), download submittal 06.04; For original groove couplings featuring Installation-Ready™ technology sizes DN50 – DN150 | 2 – 6" (Style 177N), download submittal 06.24
AGS Vic-Flange® Adapter
STYLE W741

**Download submittal 20.04 for complete information**

- Designed for directly incorporating flanged components with ANSI Class 125-150 or PN10/16 bolt hole patterns
- Sizes from DN350–DN600 | 14–24”
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal
- For original groove sizes DN50–DN300 | 2–12”, **download submittal 06.06** for information on Style 741
AGS Fittings

Download submittal 20.05 for complete information

- Sizes from DN350 – DN1500 | 14 – 60^
- Pressures up to 350 psi | 2413 kPa | 24 bar
- Download product submittal for the following:
  coating options; flange bolt hole pattern options
- For original groove fittings, download submittal 07.01 for more information

AGS Fittings

No. W10
90° Elbow

No. W11
45° Elbow

No. W12
22½° Elbow

No. W13
11¼° Elbow

No. W100
90° 1½ D Long Radius Elbow

No. W110
45° 1½ D Long Radius Elbow

No. W20
Tee

No. W35
Cross

No. W33
True Wye

No. W25
Reducing Tee

No. W30
45° Lateral

No. W30-R
45° Reducing Lateral

No. W42
Adapter Nipple
(AGS Groove × Bevel)

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

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

No. W60
Cap

No. W50
Concentric Reducer

No. W51
Eccentric Reducer

No. W41
Flanged Adapter Nipple

No. W45R
Flanged Adapter Nipple
AGS Vic-300® Butterfly Valve
SERIES W761

**Download submittal 20.06 for complete information**

- Offers an easily installed choice to cumbersome, multi-bolt wafer or lug-type flanged valves
- Sizes from DN350 – DN600 | 14 – 24"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes DN20 – DN300 | ¾ – 12", **download submittal 09.05** for information on Series 761

AGS Butterfly Valve
SERIES W709

**Download submittal 20.07 for complete information**

- Offers an easily installed choice to cumbersome, multi-bolt wafer or lug-type flanged valves
- Sizes from DN650 – DN1200 | 26 – 48"
- Pressures up to 150 psi | 1034 kPa | 10 bar
AGS Vic-Check® Dual Disc Valve
STYLE W715

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

AGS Triple Service Valve Assemblies

- Provides shut-off and throttling with positive mechanical memory
- Comprised of a Series W761 AGS butterfly valve and a Series W715 Vic-Check® valve
- Sizes from DN350 – DN600 | 14 – 24"
- Pressures up to 232 psi | 1600 kPa | 16 bar
- For original groove sizes DN80 – DN300 | 3 – 12", download submittal 08.09
**AGS Suction Diffuser**
**SERIES W731-D**

Download submittal 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 DN350 – DN600 | 14 – 24"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For original groove sizes DN80 – DN300 | 3 – 12", [download submittal 09.20](#) for information on Series 731-D

**AGS Tee Type Vic-Strainer®**
**SERIES W730**

Download submittal 20.11 for complete information

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

**AGS Wye Type Vic-Strainer®**
**SERIES W732**

Download submittal 20.19 for complete information

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

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

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

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

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Non-Restrained Flexible Coupling for Carbon Steel Pipe
STYLE 230

Download submittal 60.01 for complete information

- Non-restrained flexible pipe joint for water and wastewater pipelines
- Sizes from DN200 – DN3600 | 8 – 144"
- Pressures up to 400 psi | 2758 kPa | 28 bar
- Up to 13 mm | ½" intermittent axial movement
- For coating options, download product submittal
Non-Restrained Flexible Coupling for Stainless Steel Pipe
STYLE 230S

- Non-restrained flexible pipe joint used where corrosion resistance is required
- Sizes from DN80 – DN2400 | 3 – 96"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Up to 13 mm | ½" intermittent axial movement

Restrained Flexible Single-Gasket Coupling for Carbon Steel Pipe
STYLE 234

- Sizes from DN200 – DN3000 | 8 – 120"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Designed for use on water transmission, force mains and penstock lines
- For coating options, download product submittal

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

- Sizes from DN200 – DN1500 | 8 – 60"
- Pressures up to 200 psi | 1379 kPa | 14 bar
- Ideal for field joint connections requiring flexibility and thrust restraint
Outlets and Couplings

- **Mechanical-T® Outlet (Style 920/920N)**
- **Outlet Coupling (Style 72)**
- **Vic-Let® Strapless Outlet (Style 923)**
- **Vic-O-Well® Strapless Thermometer Outlet (Style 924)**

**Tools**

- **Vic-Tap® Hole Cutting Tools**

---

**Mechanical-T® Outlet**

**STYLE 920/920N**

*Download submittal 11.02 for complete information*

- Provides a direct branch connection at any location where a hole can be cut in the pipe.
- Available as a tee or cross outlet with female threaded or grooved ends.
- Sizes from DN50 – DN200 | 2 – 8”.
- Pressures up to 500 psi | 3447 kPa | 34 bar.
- Download product submittal for the following: coating options; standard thread options.
Hole Cut Systems

Outlet Coupling

STYLE 72

**Download submittal 06.10 for complete information**

- Joining device to provide an integral reducing outlet
- Sizes from DN40 – DN150 | 1½ – 6"
- Pressures up to 500 psi | 3447 kPa | 21 bar
- Download product submittal for the following: coating options; standard thread options

Vic-Let® Strapless Outlet

STYLE 923

**Download submittal 11.05 for complete information**

- Provides a fast, easy pipe outlet without the need for a strap or lower housing
- Sizes from DN100 – DN250 | 4 – 10"
- Pressures up to 300 psi | 2068 kPa | 21 bar

Vic-O-Well® Strapless Thermometer Outlet

STYLE 924

**Download submittal 11.06 for complete information**

- Provides a fast, easy connection, combining the features of a thermowell and strapless mechanical outlet
- Sizes from DN100 – DN250 | 4 – 10"
- Pressures up to 300 psi | 2068 kPa | 21 bar

victaulic.com
**Expansion Joints**

Victaulic® offers a wide variety of expansion solutions to accommodate pipe movement in your system. Victaulic® expansion joints can provide up to 1069 mm | 42" of movement in a piping system. Select expansion joints allow for deflection as well as expansion and contraction capabilities. Stainless steel expansion joints are available for air systems requiring expansion compensators. Victaulic® expansion joints are available with Original Groove System (OGS), Advanced Groove System (AGS), bolted split-sleeve, and flanged ends.

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**Mover® Expansion Joint**

**STYLE 150**

*Download submittal 09.04 for complete information*

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

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**Expansion Joint**

**STYLE 155**

*Download submittal 09.05 for complete information*

- Combination of 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 DN20–DN300 | ½–12”
- For coating options, download product submittal
- For AGS sizes DN350–DN600 | 14–24”, *download submittal 20.12* for information on Style W155

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**AGS Expansion Joint**

**STYLE W155**

*Download submittal 20.12 for complete information*

- Combination of Style W77 couplings and short nipples, joined in tandem to provide increased expansion
- Sizes from DN350–DN600 | 14–24”
- For coating options, download product submittal
- For original groove sizes DN20–DN300 | ½–12”, *download submittal 09.05* for information on Style 155

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

Download submittal 60.03 for complete information

- Non-restrained flexible expansion joint provides up to 102 mm | 4” of axial movement
- Sizes from DN400 – DN3600 | 16 – 144”
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For coating options, download product submittal

Non-Restrained Flexible Expansion Coupling for Stainless Steel Pipe
STYLE 231S

Download submittal 60.04 for complete information

- Flexible non-restrained expansion joint for aeration systems
- Up to 102 mm | 4” axial movement
- Sizes from DN80 – DN2400 | 3 – 96”
- Pressures up to 300 psi | 2068 kPa | 21 bar
Expansion Joint Coupling
STYLE 152A

Download submittal 09.15 for complete information

- Large diameter pulverized coal/limestone coupling with 4° of deflection capability
- Sizes from DN250 – DN780 | 10 – 30”
- Pressures up to 50 psi | 345 kPa | 3 bar

**HOUSING**
Precision formed ductile iron, one-piece construction. Polyphenylene sulfide blend (PPS) heat fused coating allows for easy deflection with no transmission of reaction loads.

**VIC-RINGS**
Two carbon steel rings welded to hold gasket in place to expertly seal joint, resulting in zero leakage.

**GASKET**
Reliable silicone seals designed for dry heat. Rated from -30°C to +350°F | -34°C to +177°C.

**BOLTS AND NUTS**
Heat-treated plated and electroplated carbon steel. No special tools required for assembly and no exposed bolt threads to corrode, gather dirt, bend or damage.

victaulic.com
Plain End Systems for Carbon Steel

The Victaulic® plain end piping method is ideal for maintenance and repairs as well as new systems such as roof drains, slurries, tailings and oil field services. Roust-A-Bout® couplings and plain end fittings are UL and ULC Listed for fire protection services.

Victaulic® plain end couplings are primarily designed for use on standard weight steel pipe (Schedule 40), but may be used on light wall steel or other metallic pipe, such as aluminum or stainless steel. They are not intended for use on plastic pipe, plastic-coated pipe or brittle pipe, such as asbestos cement or cast iron. Nor are they intended for use on pipe with a surface hardness greater than 150 Brinell.

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

- Grips to provide a strong component for joining plain and beveled end pipe and fittings
- Not designed for use with plastic pipe
- Sizes from DN25 – DN450 | 1 – 18"
- Pressures up to 750 psi | 5171 kPa | 52 bar
- For coating options, download product submittal

**Roust-A-Bout® Plain End Coupling**

**STYLE 99**

*Download submittal 14.02 for complete information*
Plain End Systems for Carbon Steel

Fittings

Download submittal 14.04 for complete information

- Compatible with Style 99 Roust-A-Bout® coupling
- For coating options, download product submittal

No. 10P 90° Elbow
No. 11P 45° Elbow
No. 100P 90° Long Radius Elbow
No. 110P 45° Long Radius Elbow
No. 20P Tee
No. 35P Cross

No. 33P True Wye
No. 61P Steel Bull Plug
No. 25P Reducing Tee
No. 30P 45° Lateral

No. 53P Swaged Nipple
No. 40P Adapter Nipple (Plain End × Thread)
No. 42P Adapter Nipple (Plain End × Bevel)
No. 43P Adapter Nipple (Plain End × Groove)
**Stainless Steel Systems**

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

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

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

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

### Couplings

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### Valves

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### Accessories

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

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

Type 316 Rigid Coupling
STYLE 489

Download submittal 17.25 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Sizes from DN40 – DN300 | 1½ – 12"
- Pressures up to 600 psi | 4137 kPa | 41 bar
- For the duplex stainless steel coupling, download submittal 17.33 for Style 489DX

Approvals/Listings:

Download publication 10.01 for complete information

Duplex Rigid Coupling
STYLE 489DX

Download submittal 17.33 for complete information

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Sizes from DN50 – DN300 | 2 – 12"
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, download submittal 17.25 for Style 489
Type 316 Flexible Coupling
STYLE 77S

- Provides a rugged mechanical joint for grooved end stainless steel piping systems
- Sizes from DN200 – DN450 | 8 – 18"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- For the duplex coupling in sizes DN20 – DN150 | ¾ – 6”, download submittal 17.20 for information on Style 77DX

Duplex Flexible Coupling
STYLE 77DX

- Designed to provide a rugged mechanical joint for roll grooved stainless steel systems
- Sizes from DN20 – DN150 | ¾ – 6"
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- Optional super duplex stainless steel housing
- For Type 316 stainless steel coupling in sizes DN200 – DN450 | 8 – 18", download submittal 17.03 for information on Style 77S

Type 316 Lightweight Flexible Coupling
STYLE 475

- Designed to provide a durable mechanical joint for grooved end stainless steel piping systems
- Sizes from DN25 – DN100 | 1 – 4"
- Pressures up to 500 psi | 3447 kPa | 34 bar
- For the duplex coupling, download submittal 17.34 for information on Style 475DX
Stainless Steel Systems

**Duplex Lightweight Flexible Coupling**

STYLE 475DX

*Download submittal 17.34 for complete information*

- Designed to provide a durable mechanical joint for grooved end stainless steel piping systems
- Sizes from DN25–DN100 | 1–4"
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Optional super duplex stainless steel housing
- For the Type 316 stainless steel coupling, *download submittal 17.14* for Style 475

**Rigid Coupling**

STYLE 89

*Download submittal 17.24 for complete information*

- Greatly reduces linear or angular movement and is useful for valve connections where rigidity is required
- Galvanized coated ductile iron coupling
- Sizes from DN50–DN300 | 2–12"
- Pressures up to 1200 psi | 8274 kPa | 83 bar
- For other ductile iron couplings to use on stainless steel pipe *download submittal 17.09*

**Vic-Flange® Adapter**

STYLE 441

*Download submittal 17.27 for complete information*

- ANSI Class 150 and ISO PN10/16
- Constructed from Grade CF8M stainless steel, making it ideal for externally corrosive environments
- Sizes from DN50–DN150 | 2–6"
- Pressures up to 275 psi | 1896 kPa | 19 bar

Approvals/Listings:

*Download publication 10.01 for complete information*

victaulic.com
ANSI Schedule 10S Fittings

- Grooved ends eliminate pipe end preparation for the fittings
- Sizes from DN20 – DN300 | ¾ – 12"
- Available in Type 304L or 316L
- Download submittal 17.27 for flange bolt hole pattern options

Approvals/Listings:

No. 410 SS  90º Elbow
No. 411 SS  45º Elbow
No. 412 SS  22½º Elbow
No. 413 SS  11¼º Elbow
No. 420 SS  Tee
No. 425 SS  Grooved Branch Reducing Tee
No. 430 SS  45º Lateral
No. 433 SS  True Wye
No. 435 SS  Cross
No. 442 SS  Adapter Nipple (Groove × Bevel)
No. 443 SS  Adapter Nipple (Groove × Groove)
No. 450 SS  Concentric Reducer
No. 451 SS  Eccentric Reducer
No. 460 SS  Cap
No. 441N  DN Flanged Adapter Nipple

Stainless Steel Systems

Hole Cut
Expansion Joints
Plain End
Stainless Steel
Copper
Shouldered Steel
Hydronic Balancing
HDPE
Aquamine ®
PVC
Grooved PVC
FRP
Tools
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G-103-INT  REV P

Stainless Steel Systems
Stainless Steel Systems

# ANSI Schedule 40S Fittings

**Download submittal 17.16 for complete information**

- Grooved ends eliminate pipe end preparation for the fittings
- Sizes from DN20–DN300 | ¾ – 12”
- Available in Type 304L or 316L
- Designed for higher pressure systems
- Download product submittal for standard thread options

## Fittings

- **No. 410H SS**
  - 90° Elbow

- **No. 411H SS**
  - 45° Elbow

- **No. 412H SS**
  - 22½° Elbow

- **No. 413H SS**
  - 11¼° Elbow

- **No. 420H SS**
  - Tee

- **No. 425H SS**
  - Grooved Branch Reducing Tee

- **No. 430H SS**
  - 45° Lateral

- **No. 433H SS**
  - True Wye

- **No. 435H SS**
  - Cross

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

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

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

- **No. 450H SS**
  - Concentric Reducer

- **No. 451H SS**
  - Eccentric Reducer

- **No. 60 SS**
  - Cap

[Victaulic.com](http://www.victaulic.com)
**Butterfly Valve**

SERIES 763

*Download submittal 17.23 for complete information*

- The disc is constructed of stainless steel and provides a bubble-tight shut-off at full rated pressure
- Available with a tamper resistant lever handle or a gear operator
- Sizes from DN50 – DN250 | 2 – 10"
- Pressures up to 300 psi | 2068 kPa | 21 bar

**Vic-300® MasterSeal™ Stainless Steel Butterfly Valve**

SERIES 461

*Download submittal 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
- Sizes from DN50 – DN200 | 2 – 8"
- Pressures up to 300 psi | 2068 kPa | 21 bar

**Swinger® Check Valve**

SERIES 712S

*Download submittal 17.08 for complete information*

- The large closure access bonnet permits easy access for in-line service
- Designed for use with standard Victaulic® grooved fittings and couplings for fast installation on inlet and outlet ports
- Available in size DN50 | 2"
Vic-Ball® Valve
SERIES 726S

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

Download submittal 17.22 for complete information

Vic-Ball® Valve
SERIES 726D

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

Download submittal 17.28 for complete information

Three-Piece Vic-Press® Ball Valve
SERIES P569

*The three-piece swing-out design permits easy in-line maintenance*
- Sizes from DN15 – DN50 | ½ – 2”
- Pressures up to 400 psi | 2758 kPa | 28 bar
- For the entire Vic-Press® line of products, see pgs. 52 and 53
MTS Plug Valve
SERIES 465

Download submittal 17.36 for complete information

- Typically used in reverse osmosis desalination plants for on/off and control services
- Available without operator or with manual, pneumatic, hydraulic and electric actuators
- Sizes from DN50 – DN450 | 2 – 18"
- Pressures up to 1450 psi | 9997 kPa | 100 bar
Vic-Press® for Schedule 10S Stainless Steel Type 304

Download submittal 18.12 for complete information

- 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 DN15–DN50 | ½ – 2"
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Download product submittal for standard thread options and flange bolt hole pattern options

Stainless Steel Systems

Style P597
Standard Coupling (P×P)

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

Style P542
90° Street Elbow (P×P)

Style P591
45° Elbow (P×P)

Style P543
45° Street Elbow (P×T)

Style P592
Tee (P×P×P)

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

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

Style P596
Male Threaded Adapter (P×M)

Style P599
Female Threaded Adapter (P×F)

Style P561
Weld Adapter (P×T)

Style P584
Threaded Union (P×P)

Style P595
Flange Adapter (P×L)

Style P565
Van Stone Flange Adapter (P×L)

Style P587
Transition Nipple (G×T)

Style P594
Concentric Reducer (P×P)

Style P540
End Cap

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

Style P589
Brass Body Ball Valve (P×P)

PFT510
Vic-Press® Tool, pg. 97

vcvictaulic.com
Vic-Press® for Schedule 10S Stainless Steel Type 316

**Download submittal 18.11 for complete information**

- 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 DN15–DN50 | ½ – 2"
- Pressures up to 500 psi | 3447 kPa | 34 bar
- Download product submittal for standard thread options and flange bolt hole pattern options

**Connection Key**

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

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**Stainless Steel Systems**

**Style P507**
Standard Coupling
(P × P)

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

**Style P562**
90° Street Elbow
(P × P)

**Style P571**
45° Elbow
(P × P)

**Style P563**
45° Street Elbow
(P × T)

**Style P508**
Slip Coupling
(P × P)

**Style P572**
Tee
(P × P × P)

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

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

**Style P576**
Male Threaded Adapter
(P × M)

**Style P579**
Female Threaded Adapter
(P × F)

**Style P585**
Threaded Union
(P × P)

**Style P575**
Flange Adapter
(P × L)

**Style P566**
Van Stone Flange Adapter
(P × L)

**Style P577**
Transition Nipple
(G × T)

**Style P574**
Concentric Reducer
(P × P)

**Style P560**
End Cap

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

**Style P589**
Brass Body Ball Valve
(P × P)

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**PFT510**
Vic-Press® Tool,
pg. 97
Stainless Steel Systems
Copper Systems

The Victaulic® original 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 DN50–DN200 | 2–8” copper.

For CTS standard products for copper tubing download submittal 22.01

For Australian Standard (AS) products for copper tubing download submittal 22.10

For EN 1057 standard products for copper tubing download submittal 22.11

### Couplings

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### Dielectric Waterway Fitting

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QuickVic® Rigid Coupling
STYLE 607-CTS

Download submittal 22.13 for complete information

- Installation-Ready™ design
- Designed for use on K, L, M or DWV copper tubing
- Sizes from DN50–DN200 | 2–8"
- Pressures up to 300 psi | 2068 kPa | 21 bar
- Optional galvanized housing coating

Rigid Coupling
STYLE 606-AS
STYLE 606-EN1057

Download submittal 22.10 for Style 606-AS
Download submittal 22.11 for Style 606-EN1057

- Eliminates brazing or soldering
- Style 606-AS available in sizes from DN50–DN200 | 2–8"
- Style 606-EN1057 available in sizes from DN50–DN150 | 2–6"
- Pressures up to 355 psi | 2448 kPa | 24 bar
- WRAS approved gasket

For CTS standard products for copper tubing
download submittal 22.01

For Australian Standard (AS) products for copper tubing
download submittal 22.10

For EN 1057 standard products for copper tubing
download submittal 22.11
**Dielectric Waterway Fitting**  
**STYLE 647-CTS**

- 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 DN15 – DN100 | ½ – 4"
- Pressures up to 300 psi | 2068 kPa | 21 bar

**Vic-Flange® Adapter for Copper**  
**STYLE 641-CTS**  
**STYLE 641-EN1057**

- Sizes from DN50 – DN150 | 2 – 6"
- Pressures up to 300 psi | 2068 kPa | 21 bar

**Approvals/Listings:**

- UL Listed
- FM

Download publication 10.01 for complete information

For CTS standard products for copper tubing  
download submittal 22.03

For Australian Standard (AS) products for copper tubing  
download submittal 22.10

For EN 1057 standard products for copper tubing  
download submittal 22.11
Fittings for Copper

Download submittal 22.04 for CTS fittings
Download submittal 22.10 for AS fittings
Download submittal 22.11 for EN1057 fittings

- 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 Vic-Flange® adapter
- Sizes from DN50 – DN200 | 2 – 8"
- Pressures up to 300 psi | 2068 kPa | 21 bar

Approvals/Listings:

Download publication 10.01 for complete information

Victaulic.com
Butterfly Valve for Copper
SERIES 608N-CTS
SERIES 608N-AS
SERIES 608N-EN1057

- Joins quickly to copper tube by utilizing Style 607 or Style 606 couplings
- Sizes from DN65 – DN150 | 2½ – 6"
- Pressures up to 300 psi | 2068 kPa | 21 bar

Download submittal 22.14 for 608N-CTS
Download submittal 22.10 for 608N-AS
Download submittal 22.11 for 608N-EN1057

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

- Provides a direct branch connection at any location on K, L and M copper tubing
- Sizes from DN65 – DN100 | 2½ – 4"
- Pressures up to 300 psi | 2068 kPa | 21 bar

Download submittal 22.12 for complete information

Approvals/Listings:
Download publication 10.01 for complete information
Shouldered Steel System

The line of products for shouldered systems includes couplings, fittings and valves. For systems from DN50 – DN200 | 2 – 8”, Style SC77 coupling provides a flexible joint for systems with pressures up to 580 psi | 4000 kPa | 40 bar. Shouldered fittings are ready to install and match the pressure ratings of Style SC77 coupling.

Available only in Australia and South Africa.
Flexible Coupling for Shoulder Steel Pipe
STYLE SC77

Download submittal 16.10 for complete information

- Sizes from DN50 – DN200 | 2 – 8" (pipe O.D.)
- Pressures up to 580 psi | 4000 kPa | 40 bar
- Supplied standard with galvanized coating
- For other coating options, download product submittal

Transition Coupling for HDPE to Shoulder Steel
STYLE SC998

Download submittal 19.08 for complete information

- Sizes available to join 63 – 110 mm HDPE pipe to DN50 – DN100 | 2 – 4" shouldered pipe (pipe O.D.)
- Pressures rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

victaulic.com
Shouldered Steel Fittings

*Download submittal 07.06 for complete information*

- Shouldered end fittings to be installed using Victaulic couplings for shouldered pipe
- Sizes from DN50 – DN200 [2–8 in. (pipe O.D.)]
- Pressure ratings conform to ratings of installed coupling
- Fittings supplied standard with galvanized coating

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**Shouldered Steel System**

<table>
<thead>
<tr>
<th>No. SC10</th>
<th>90° Elbow</th>
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<td>SC45F</td>
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<td>SC45R</td>
<td>Raised Face Flanged Adapter Nipple</td>
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Shouldered Gate Valve
SERIES 7S2

Download submittal 08.43 for complete information

- Non-Rising Stem (NRS) gate valve designed in accordance with AS-2638.2
- Sizes from DN80–DN200 | 3–8” (pipe O.D.)
- Pressures up to 350 psi | 2413 kPa | 24 bar

Shouldered Butterfly Valve
SERIES 761SC

Download submittal 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 DN50–DN200 | 2–8” (pipe O.D.)
- Pressures up to 300 psi | 2068 kPa | 21 bar
Hydronic Balancing Solutions

Victaulic® provides balancing products that allow contractors to improve productivity on the jobsite, and allow engineers to accurately control building temperatures, while optimizing energy efficiency. Balancing valves enhance comfort and cut energy costs through precise control of building temperature.

Only available in Europe, Middle East, Africa and India.

Oventrop Double Regulating and Commissioning Valve
SERIES 7890

Download submittal 08.70 for complete information

- Valve performs presetting, measuring, isolating, filling and draining system functions
- Preset memory position to achieve system balance
- Sizes from DN65 – DN300 | 2½ – 12”
- Pressure dependant upon coupling selection

Grooved End Metering Station (Orifice Type)
SERIES 7340

Download submittal 08.71 for complete information

- Accurate, economical method for obtaining flow measurements
- Maintenance free design
- Sizes from DN65 – DN300 | 2½ – 12”
Hydronic Balancing Solutions
The Victaulic® HDPE system provides easy incorporation of standard IPS fittings and valves directly to HDPE pipe using the HDPE-to-grooved transition coupling. The Victaulic® system permits more accurate estimates and assures on-time modification and future retrofit. Unique mechanical features permit a wide variety of applications for most HDPE piping systems. It combines the advantages of fast installation, design integrity and reliable operation.

Plain End Coupling for HDPE Pipe

**STYLE 995N**

**Download submittal 19.02 for complete information**

- Coupling teeth create 360° grip of HDPE pipe for secure seal
- Sizes from DN50 – DN500 | 2 – 20”
- Pressure rating conforms to the maximum rating of the pipe
- For coating options and available metric sizes, download product submittal

**Approvals/Listings:**

**Download publication 10.01 for complete information**
HDPE to Steel Transition Coupling
STYLE 997

Download submittal 19.03 for complete information

- Fastest way to join HDPE to IPS pipe
- Sizes from DN50–DN300 | 2–12"
- Pressure rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

Vic-Flange® Plain End Adapter
for HDPE Pipe
STYLE 994

Download submittal 19.04 for complete information

- Permits direct connection of ANSI Class 125 and 150 flange components into HDPE systems
- Sizes from DN100–DN200 | 4–8"
- Pressure rating conforms to the maximum rating of the pipe
- For coating options, download product submittal

Approvals/Listings:

Download publication 10.01 for complete information
Aquamine® PVC System

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

### Couplings

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<tr>
<td>Aquamine® Transition Coupling for PVC to Grooved Steel (Series 2972)</td>
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### Fittings and Pipe

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| Aquamine® Pipe (Series 2900) | Page 72 |

### Valves

| Aquamine® Ball Valve (Series 2921) | Page 72 |
| Aquamine® Butterfly Valve (Series 2950) | Page 72 |

### Aquamine® Plain End Coupling

**SERIES 2970**

Download submittal 50.01 for complete information

- Repair coupling for PVC systems; no pipe preparation required
- Sizes from DN50 – DN200 | 2 – 8”
- Pressures up to 350 psi | 2413 kPa | 24 bar
Aquamine® Transition Coupling for PVC to HDPE
SERIES 2971

Download submittal 50.05 for complete information

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

Aquamine® Transition Coupling for PVC to Grooved Steel
SERIES 2972

Download submittal 50.06 for complete information

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

Download submittal 50.01 for complete information

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

Series 2904
Coupling (ALF × ALF)

Series 2905
Coupling (ALF × SCF)

Series 2906
Coupling (ALM × PEM)

Series 2907
Coupling (ALM × VIC)

Series 2908
Coupling (PEM × NPT-M)

Series 2909
Coupling (PEM × NPT-M)

Series 2910
90° Elbow (ALM × ALM)

Series 2912
45° Long (ALM × ALM)

Series 2913
90° Sweep (ALM × ALM)

Series 2914
45° Sweep (ALM × ALM)

Series 2915
End Cap (ALM)

Series 2916
Transition Nipple (ALM × FLG)

Series 2917
Tee (ALM × ALM × ALM)

Series 2918
Reducing Tee (ALM × ALM × ALM)

Series 2919
Reducer (ALF × ALM)

Series 2920
Reducer (ALM × SCF)

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

Series 2937
Outlet Fitting (ALM × ALM × NPT-F)

Series 2938
Outlet Fitting (ALM × NPT-F × NPT-F)

Series 2939
Outlet Fitting (NPT-F × NPT-F × NPT-F)

Connection Key

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

Aquamine® PVC Pipe
SERIES 2900

Download submittal 50.01 for complete information

- PVC 1120 Type 1, grade 1 (class 12454) conforming to ASTM D-1784 and ASTM D-2241
- Sizes from DN50–DN300 | 2–12"
- Pressures up to 350 psi | 2413 kPa | 24 bar
- For Aquamine® grooving tools, see pg. 94

Aquamine® Ball Valve
SERIES 2921

Download submittal 50.01 for complete information

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

Aquamine® Butterfly Valve
SERIES 2950

Download submittal 50.01 for complete information

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

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

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

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

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

Composite Flexible Coupling

**STYLE 171**

**Download submittal 06.22 for complete information**

- For use where corrosive conditions exist
- Designed for use on reverse osmosis systems
- For use on roll/cut grooved PVC
- Sizes from DN40 – DN100 | 1½ – 4"
- Pressures up to 150 psi | 1034 kPa | 10 bar
- For stainless steel and FRP applications, contact Victaulic®
FRP System

The Victaulic® fiberglass-reinforced plastic piping solution offers more efficient installations and is ideal for most applications that currently use butt and wrap to join FRP/GRP pipe. The Style 296-A is rated for pressures up to 150 psi | 1034 kPa | 10 bar and the FlushSeal® gasket ensures a smooth flow path.

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

Download submittal 90.01 for complete information

• Designed to create a rigid pipe joint without any special tools while maintaining existing support requirements
• Can be installed in any weather
• No curing time required
• Sizes from DN25 – DN300 | 1 – 12”
• Pressures up to 150 psi | 1034 kPa | 10 bar

Coupling for Fiberglass Reinforced Plastic Pipe
STYLE 296-A

victaulic.com
**Pipe Preparation Tools**

Victaulic® is the world’s leading developer of pipe preparation tools. These tools simplify pipe end preparation and are available for pipe sizes ranging from DN15 | ½” up to DN1800 | 72”.

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

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

Tools are shipped with standard rolls included.

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### Field Portable Roll Grooving Tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Page</th>
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</thead>
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<tr>
<td>VE12</td>
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<tr>
<td>VE26</td>
<td>77</td>
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<tr>
<td>VE26/46 Power Drive Kit</td>
<td>78</td>
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<td>VE46</td>
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<td>VE226</td>
<td>79</td>
</tr>
<tr>
<td>VE226 Power Drive Kit</td>
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### Field Fabrication Roll Grooving Tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Page</th>
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<tbody>
<tr>
<td>VE106/VE107</td>
<td>80</td>
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<tr>
<td>VE272SFS</td>
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<td>VE270FSD/VE271FSD</td>
<td>82</td>
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<td>VE416FS</td>
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<tr>
<td>VE416FSD/VE417FSD</td>
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<td>VE450FSD</td>
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### Plant/Shop Fabrication Roll Grooving Tools

<table>
<thead>
<tr>
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<tbody>
<tr>
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### Plastic Groovers

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</tr>
<tr>
<td>VPG824</td>
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</table>

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For grooving stainless steel, download submittal 17.01.
Pipe Preparation Tools

Aquamine® Grooving Tools
- APG page 94

Hole Cutting Tools
- HCT908 page 94
- VHCT900 page 95
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Pipe Cut-Off Tools
- VCT1 Manual page 96
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Tool Accessories
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Closure Tools
- Style 809 Ring Clamps page 101
- VBSP Closure Tools page 102

Fabrication Cell
- VAP131 page 103
- VAPS 131R page 103
- VAPS 131F page 104
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Field Portable Roll Grooving Tools

VE12 GROOVE IN-PLACE

Download submittal 24.01 for complete information

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

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>20 1/4</th>
<th>25 1</th>
<th>32 1/4</th>
<th>40 1/2</th>
<th>50 2</th>
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<tr>
<td></td>
<td>Aluminum ²</td>
<td>5–10</td>
<td>5–40</td>
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<td>55–105</td>
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</tbody>
</table>

² Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.

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Field Portable Roll Grooving Tools

VE26 GROOVE IN-PLACE

Download submittal 24.01 for complete information

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

* Ridgid is a registered trademark of the Ridge Tool Company.
Field Portable Roll Grooving Tools
VE26/46 POWER DRIVE KIT

Download submittal 24.01 for complete information

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

* Ridgid is a registered trademark of the Ridge Tool Company

---

Field Portable Roll Grooving Tools
VE46 GROOVE IN-PLACE

Download submittal 24.01 for complete information

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

* Ridgid is a registered trademark of the Ridge Tool Company

---

Tool Ratings — Maximum Capacity

| Model | Pipe Material | Pipe Size (DN | Schedule |
|-------|---------------|---------------|
| VE46S | Steel         | 90 3½ 100 4 120 4½ 125 5 150 6 |
|       | Stainless     | 5 – 40        |
| VE46P | Aluminum ²    | 40S Only      |
|       | PVC Plastic   | 40            |

¹ Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
² 6061-T4 or 6063-T4 alloy must be used.
Pipe Preparation Tools

Field Portable Roll Grooving Tools
VE226 PORTABLE GROOVER

Download submittal 24.01 for complete information

- Tool is operated using a standard 9.5 mm \( \frac{3}{8}'' \) square ratchet drive *
- Drive Requirements: Mounts to Victaulic® VPD752 or Ridgid** 300 Power Drive; optional bases available
- Weight: 17 kg | 37 lbs.

* Standard 9.5 mm \( \frac{3}{8}'' \) square ratchet drive is included with tools ordered in EMEA-I, but not included with tools ordered in Asia Pacific

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

Tool Ratings — Maximum Capacity 1

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>20 1⁄4</th>
<th>25 1</th>
<th>32 1⁄4</th>
<th>40 1⁄2</th>
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<th>60 2½</th>
<th>80 3</th>
<th>90 3½</th>
<th>100 4</th>
<th>120 4½</th>
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</tbody>
</table>

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

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

Field Portable Roll Grooving Tools
VE226 POWER DRIVE KIT

Download submittal 24.01 for complete information

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

* Ridgid is a registered trademark of the Ridge Tool Company
Field Fabrication Roll Grooving Tools
VE106/VE107 GROOVE-N-GO

Download submittal 24.01 for complete information

- Mobile light-duty roll grooving tool with an integral motor/drive unit mounted to portable hand truck
- Reduces pipe handling by allowing the tool to be wheeled directly to the pipe preparation site
- 9.5 mm | ¾” 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: 64 kg | 140 lbs.

Pipe Preparation Tools

Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
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<tbody>
<tr>
<td>VE106/VE107</td>
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<td>32 40 50 60 80 90 100 125 150</td>
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<td>Steel 1, 2</td>
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<tr>
<td></td>
<td>Lt. Wall SS</td>
<td>K, L, M, DWV, EN1057</td>
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</tbody>
</table>

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX.
5 Use grooving rolls marked with the prefix RR.
Field Fabrication Roll Grooving Tools

VE272SFS

Download submittal 24.01 for complete information

- Hand pump operation with a unique pivot arm design reduces handle effort
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Equipped with stabilizer
- Power Requirements: Victaulic® VPD752 or Ridgid* 300 Power Drive
- Weight: 84 kg | 184 lbs.

* Ridgid is a registered trademark of the Ridge Tool Company

| Model       | Pipe Material | Pipe Size (DN|in)/Schedule |
|-------------|---------------|---------------|
| VE272SFS    | Steel 2, 3    | 5 – 40        |
|             | Stainless 2   | 405           |
|             | Lt. Wall SS   | 55 – 105      |
|             | Aluminum 3    | 5 – 40        |
|             | PVC Plastic 4 | 40            |
|             | Copper 7      | K, L, M, DWV, EN1057, A, B, D |

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX.
5 6061-T4 or 6063-T4 alloy must be used.
6 Use grooving rolls marked with the prefix RP.
7 Use grooving rolls marked with the prefix RR.
Field Fabrication Roll Grooving Tools
VE270FSD/VE271FSD

Download submittal 24.01 for complete information

- Completely self-contained unit with integral gear motor, safety guards, safety foot switch and power cord/plug
- Equipped with a unique pivot arm design, making roll changing quick and easy without removing shafts
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Power Requirements: VE270FSD is provided with 110 volt, 15 amp power; VE271FSD is provided with 220 volt, 6 amp power
- Weight: 154 kg | 340 lbs.

Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE270FSD/VE271FSD</td>
<td>Steel&lt;sup&gt;1,3&lt;/sup&gt;</td>
<td>5 – 40, 5 – 20</td>
</tr>
<tr>
<td></td>
<td>Stainless&lt;sup&gt;2&lt;/sup&gt;</td>
<td>40S</td>
</tr>
<tr>
<td></td>
<td>LT Wall SS&lt;sup&gt;3&lt;/sup&gt;</td>
<td>5S – 10S</td>
</tr>
<tr>
<td></td>
<td>Aluminum&lt;sup&gt;4&lt;/sup&gt;</td>
<td>5 – 40, 5 – 20</td>
</tr>
<tr>
<td></td>
<td>PVC Plastic&lt;sup&gt;5&lt;/sup&gt;</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Copper&lt;sup&gt;7&lt;/sup&gt;</td>
<td>K, L, M, DWV, EN1057, A, B, D</td>
</tr>
</tbody>
</table>

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX.
5 6061-T4 or 6063-T4 alloy must be used.
6 Use grooving rolls marked with the prefix RP.
7 Use grooving rolls marked with the prefix RR.
Field Fabrication Roll Grooving Tools

VE416FS

Download submittal 24.01 for complete information

- VE416FS is designed for field grooving of OGS pipe and should not be used for continuous field production grooving; For field production grooving capabilities, use a VE450FSD tool, see pg. 85
- Equipped with a pipe stabilizer for DN50–DN300 | 6–12" pipe sizes to control pipe sway
- Groove depth adjuster allows for easy adjustment for initial groove diameter
- Power Requirements: Victaulic® VPD752 or Ridgid® 300 Power Drive
- Weight: 109 kg | 240 lbs.

* Ridgid is a registered trademark of the Ridge Tool Company

| Tool Ratings — Maximum Capacity | Pipe Size (DN| in)/Schedule |
|----------------------------------|------------------|
| Model                            | Pipe Material    | 50  | 60  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 12 |
| VE416FS                          | Steel\(^1,2,3\)  | 5–40| 10–STD |
|                                  | Stainless\(^2\)  | 40S | STD   |
|                                  | Lt. Wall SS\(^2\) | 55–105|
|                                  | Aluminum\(^1,4\) | 5–40| 5–STD |
|                                  | PVC Plastic\(^5\) | 40  |
|                                  | Copper\(^7\)     | K, L, M, DWV, EN1057 |

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX.
5 6061-T4 or 6063-T4 alloy must be used.
6 Use grooving rolls marked with the prefix RP.
7 Use grooving rolls marked with the prefix RR.
Pipe Preparation Tools

Field Fabrication Roll Grooving Tools
VE416FSD/VE417FSD

Download submittal 24.01 for complete information

- VE416FSD/VE417FSD is designed for field grooving of OGS pipe and should not be used for continuous field production grooving; For field production grooving capabilities, use a VE450FSD tool, see pg. 85
- Groove depth adjuster allows for easy adjustment for initial groove diameter
- Completely self-contained units with integral gear motors, safety foot switch and power cord/plug
- Power Requirements: VE416FSD is provided with 110 volt, 15amp for integral gear motor; VE417FSD is provided with 220 volt, 8amp service
- Weight: 154 kg | 340 lbs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN</th>
<th>Pipe Size (in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE416FSD/</td>
<td>Steel</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>VE417FSD</td>
<td>Lt. Wall SS</td>
<td>60</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>Aluminum</td>
<td>80</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PVC Plastic</td>
<td>100</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Copper</td>
<td>125</td>
<td>5</td>
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</tbody>
</table>

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX.
5 6061-T4 or 6063-T4 alloy must be used.
6 Use grooving rolls marked with the prefix RP.
7 Use grooving rolls marked with the prefix RR.
Field Fabrication Roll Grooving Tools

**VE450FSD**

**Download submittal 24.01 for complete information**

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

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>OGS</th>
<th>AGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE450FSD</td>
<td></td>
<td>100</td>
<td>125</td>
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<tr>
<td></td>
<td></td>
<td>4</td>
<td>5</td>
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<tr>
<td>Steel</td>
<td>S – 40</td>
<td>S – STD</td>
<td>S – STD</td>
</tr>
<tr>
<td>Stainless</td>
<td>40S</td>
<td>STD</td>
<td>STD</td>
</tr>
<tr>
<td>Lt. Wall SS</td>
<td>5S – 10S</td>
<td>STD</td>
<td>STD</td>
</tr>
<tr>
<td>Aluminum</td>
<td>5 – 40</td>
<td>STD</td>
<td>STD</td>
</tr>
<tr>
<td>PVC Plastic</td>
<td>40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2. Use standard grooving rolls marked with the prefix R for both OGS and AGS.
3. EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4. Use standard grooving rolls marked with the prefix R for OGS and RW for AGS.
5. Use grooving rolls marked with the prefix RX for OGS and RWX for AGS. (Special RWX Rolls are available for grooving true Sch. 10 (6.4 mm | 0.250). These rolls are not interchangeable with roll sets from other tool models. Contact Victaulic® for details.
6. 6061-T4 or 6063-T4 alloy must be used.
7. Use grooving rolls marked with the prefix RP.
Plant/Shop Fabrication
Roll Grooving Tools
VE268

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Equipped with a unique pivot arm design, making roll changes quick and easy, without removing shafts
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Power Requirements: 220/440 volt, 3 phase, 60 hertz standard in Asia Pacific; 230/400 volt, 3 phase, 50 hertz standard in EMEA-I; 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: 333 kg | 735 lbs.

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE268</td>
<td>Steel&lt;sup&gt;1-3&lt;/sup&gt;</td>
<td>5 – 40</td>
</tr>
<tr>
<td></td>
<td>Stainless&lt;sup&gt;2&lt;/sup&gt;</td>
<td>405</td>
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<tr>
<td></td>
<td>LT Wall SS&lt;sup&gt;5&lt;/sup&gt;</td>
<td>55 – 105</td>
</tr>
<tr>
<td></td>
<td>Aluminum&lt;sup&gt;1-6&lt;/sup&gt;</td>
<td>5 – 40</td>
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<tr>
<td></td>
<td>PVC Plastic&lt;sup&gt;4&lt;/sup&gt;</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Copper&lt;sup&gt;2&lt;/sup&gt;</td>
<td>K, L, M, DWV, EN1057</td>
</tr>
</tbody>
</table>

1. Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2. Use standard grooving rolls marked with the prefix R.
3. EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4. Use grooving rolls marked with the prefix RX.
5. 6061-T4 or 6063-T4 alloy must be used.
6. Use grooving rolls marked with the prefix RP.
7. Use grooving rolls marked with the prefix RR.
Plant/Shop Fabrication
Roll Grooving Tools
VE414MC

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Roll changes are quick and easy, without removing shafts
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Power Requirements: 220/440 volt, 3 phase, 60 hertz standard in Asia Pacific; 230/400 volt, 3 phase, 50 hertz standard in EMEA-I; 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: 333 kg | 735 lbs.

Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>OGS</th>
<th>AGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE414MC</td>
<td>Steel(^1)(^3)</td>
<td>5–40</td>
<td>10–STD</td>
</tr>
<tr>
<td></td>
<td>Stainless(^4)</td>
<td>40S</td>
<td>STD</td>
</tr>
<tr>
<td></td>
<td>Lt. Wall SS(^5)</td>
<td>5S–10S</td>
<td>5S–10S</td>
</tr>
<tr>
<td></td>
<td>Aluminum(^6)(^7)</td>
<td>5–40</td>
<td>5–STD</td>
</tr>
<tr>
<td></td>
<td>PVC Plastic(^8)</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Copper(^9)</td>
<td>K, L, M, DWV, EN1057</td>
<td></td>
</tr>
</tbody>
</table>

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooving rolls marked with the prefix R for both OGS and AGS.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use standard grooving rolls marked with the prefix R for OGS and RW for AGS.
5 Use grooving rolls marked with the prefix RX for OGS and RWX for AGS (Special RWX Rolls are available for grooving true Sch. 10 (6.4 mm | 0.250).  
6 6061-T4 or 6063-T4 alloy must be used.
7 Use grooving rolls marked with the prefix RP.
8 Use grooving rolls marked with the prefix RR.
Pipe Preparation Tools

Plant/Shop Fabrication
Roll Grooving Tools
VE460

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Enhanced tracking rolls help to keep the pipe on the tool during the roll grooving process
- Support bases are required to groove pipe sizes DN650 | 26” and larger. Each support base is 304.8 mm | 12” in height and corresponds with a range of allowable pipe sizes it can groove
- Power Requirements: 220/440 volt, 3 phase, 60 hertz standard in Asia Pacific; 230/400 volt, 3 phase, 50 hertz standard in EMEA-I; 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: 680 kg | 1500 lbs.

### Tool Ratings —
**Maximum Capacity**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>OGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE460</td>
<td>Steel 2, 3</td>
<td>5 – 80</td>
</tr>
<tr>
<td></td>
<td>Stainless 2</td>
<td>40S</td>
</tr>
<tr>
<td></td>
<td>Lt. Wall SS 4</td>
<td>55 – 105</td>
</tr>
<tr>
<td></td>
<td>Aluminum 6, 8</td>
<td>5 – 40</td>
</tr>
<tr>
<td></td>
<td>PVC Plastic 7</td>
<td>40</td>
</tr>
</tbody>
</table>

| Model | Pipe Material | Pipe Size (DN | Schedule |
|-------|---------------|---------------|
| VE460 | Steel 2, 3 | 10 – XS |
|       | Stainless 2 | STD |
|       | Lt. Wall SS 4 | 55 – 105, TRUE 10 |

<table>
<thead>
<tr>
<th>AGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>VE460</td>
</tr>
</tbody>
</table>

1 Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
2 Use standard grooveing rolls marked with the prefix R for OGS and RW for AGS.
3 EndSeal® grooving rolls marked with the prefix RZ are available. Contact Victaulic® for details.
4 Use grooving rolls marked with the prefix RX for OGS and RWX for AGS. (Special RWX Rolls are available for grooving true Sch. 10 (6.4 mm | 0.250). These rolls are not interchangeable with roll sets from other tool models. Contact Victaulic® for details.
5 6061-T4 or 6063-T4 alloy must be used.
6 Use grooving rolls marked with the prefix RP.
7 API-5L Grade B pipe.
Plant/Shop Fabrication
Roll Grooving Tools
VE872

Download submittal 24.01 for complete information

- The fully-motorized, semi-automatic, electrohydraulic tool comes complete with safety guards and safety foot switch
- Support bases are required to groove DN750 | 30" and larger pipe sizes; each support base is 406 mm | 16" in height and corresponds with a range of allowable pipe sizes it can groove
- Power Requirements: 220/440 volt, 3 phase, 60 hertz standard in Asia Pacific; 230/400 volt, 3 phase, 50 hertz standard in EMEA-I; 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: 862 kg | 1900 lbs.

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE872</td>
<td>Carbon Steel</td>
<td>9.5 mm, 0.375 to 12.7 mm, 0.500¹</td>
</tr>
<tr>
<td></td>
<td>Carbon Steel</td>
<td>14.3 mm – 16 mm wall Grade B Only</td>
</tr>
</tbody>
</table>

¹ Physical properties shall be in accordance with API specification 5L, Grades B, X42, X46, X52, X56 or X60. [download publication 25.09](#).

For physical properties not listed contact Victaulic® for details.
Field Manual Cut Grooving Tools

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

Download submittal 24.01 for complete information

- VG28GD will produce a single OGS cut groove for unlined piping systems
- VG28GD-ABR will produce a single OGS cut groove that allows for lining of the pipe for abrasive services
- VDG26GD will produce a double OGS cut groove for high pressure systems in conjunction with installing the DN150 | 6” Style 808 couplings
- The VG28GD, VG28GD-ABR and VDG26GD are designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1.12 kw | 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 17 kg | 37 lbs.

| Tool Ratings — Maximum Capacity | Pipe Size (DN| in)/Schedule |
|---------------------------------|------------------|
| Model                           | 50 | 65 | 80 | 90 | 100 | 125 | 150 | 200 |
| VG28GD¹                          | 2  | 40 | 80 |
| Stainless                        | 40 | 80 |
| Aluminum                         | 40 | 80 |
| Ductile Iron                    | Class 53 Min.   |
| VG28GD-ABR²                     | 2  | 40 | 80 |
| Steel                           | 40 | 80 |
| VDG26GD²                         | 2  | 40 | 80 |
| Steel                           | 40 | 80 |

¹ DN150 | 6” Schedule 80
² Special knives and stops may be required.
Field Manual Cut Grooving Tools

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

*Download submittal 24.01 for complete information*

- VG824 will produce a single OGS cut groove for unlined piping systems
- VG824-ABR will produce a single OGS cut groove that allows for lining of the pipe for abrasive services
- VG824DG will produce a double OGS cut groove for high pressure piping systems in conjunction with installing Style 808 couplings
- The VG824, VG824DG and VG824-ABR are designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1.12 kw | 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 37.2 kg | 82 lbs.

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG824</td>
<td>Steel</td>
<td>40–80</td>
</tr>
<tr>
<td></td>
<td>Stainless</td>
<td>30–STD</td>
</tr>
<tr>
<td></td>
<td>Aluminum</td>
<td>30–STD</td>
</tr>
<tr>
<td></td>
<td>Ductile Iron</td>
<td>Class 53 Min.</td>
</tr>
<tr>
<td>VG824DG</td>
<td>Steel</td>
<td>40–80</td>
</tr>
<tr>
<td>VG824-ABR</td>
<td>Steel</td>
<td>40–XS</td>
</tr>
</tbody>
</table>

1 Special knives and stops may be required.

---

Field Manual Cut Grooving Tools

**VG828 (AGS)**

*Download submittal 24.01 for complete information*

- VG828 will produce a single AGS cut groove
- The VG828 is designed to be driven by the Power Mule II
- Drive Requirements: External drive, min. 1.12 kw | 1½ hp
- Drive Speed: 38 rpm max.
- Weight: 37.2 kg | 82 lbs.

### Tool Ratings — Maximum Capacity

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>VG828</td>
<td>Steel</td>
<td>12.7 mm – 19 mm</td>
</tr>
</tbody>
</table>

1 Special knives and stops may be required.
Field Cut Grooving Tools
VG VIC®-GROOVER

Download submittal 24.01 for complete information

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

### Tool Ratings — Maximum Capacity¹

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Material</th>
<th>20 ¹/₂</th>
<th>25</th>
<th>32 ¹/₁₆</th>
<th>40 ¹/₂</th>
<th>50</th>
<th>60 ²/₃</th>
<th>80 ³/₈</th>
<th>90 ⁵/₈</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>200</th>
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</thead>
<tbody>
<tr>
<td>VG</td>
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<tr>
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<td>Steel</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td>Stainless</td>
<td>40–80</td>
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<td></td>
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<td>Aluminum²</td>
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<tr>
<td></td>
<td>PVC Plastic</td>
<td>40–80</td>
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<td></td>
<td>Ductile Iron</td>
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<td></td>
<td>Cl 53</td>
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<td>Class 53 Min.</td>
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<td></td>
</tr>
</tbody>
</table>

¹ Indicates pipe size capacity. For wall thickness capacity and general tool ratings see separate Vic-Easy® Tool Rating Data by downloading submittal 24.01.
² 6061-T4 or 6063-T4 alloy must be used.
Plastic Groovers

VPG26

- 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: 19 kg | 41 lbs.

<table>
<thead>
<tr>
<th>Tool Ratings — Maximum Capacity</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Pipe Material</td>
</tr>
<tr>
<td>VPG26</td>
<td>PVC Plastic</td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

Plastic Groovers

VPG824

- 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: 21 kg | 47 lbs.

<table>
<thead>
<tr>
<th>Tool Ratings — Maximum Capacity</th>
<th>Pipe Size (DN in)/Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Pipe Material</td>
</tr>
<tr>
<td>VPG824</td>
<td>PVC Plastic</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Pipe Preparation Tools

Aquamine® Grooving Tools
APG

Download submittal 24.01 for complete information

- Manually operated tool used for producing a cut spline groove and beveled end on Aquamine® PVC pipe
- Prepares DN100 – DN300 | 4 – 12” Aquamine® pipe to receive an Aquamine® coupling
- Orbital tool which is rotated around a stationary, secured pipe
- May be operated on pipe held in a pipe vise or on supported in-place piping that is depressurized and drained
- Weight: 5.9 kg | 13 lbs.

Hole Cutting Tools
HCT908

Download submittal 24.01 for complete information

- One-piece hole cutting tool designed to cut holes up to DN120 | 4½” in carbon and stainless steel pipe; for pipe sizes up to DN200 | 8”
- Allows use of Mechanical-T®, Vic-Let®, and Vic-O-Well outlets
- Power Requirements: 110 volt, single phase, 60 hertz, 7 amp
- Weight: 10 kg | 23 lbs.
Hole Cutting Tools

**VHCT900**

*Download submittal 24.01 for complete information*

- Three-piece hole cutting tool designed to cut holes up to DN90 | 3½" in diameter for Mechanical-T®, Vic-Let®, and Vic-O-Well® outlets
- Base unit clamps quickly onto the pipe in vertical, horizontal or overhead positions
- Available extended chain for DN250 – DN600 | 10 – 24" pipe
- Power Requirements: Grounded 220 volt, single phase, 50 hertz, 5 amp electrical supply (120 volt, single phase, 60 hertz, 10 amp available on request)
- Weight: 16 kg | 36 lbs.

Hole Cutting Tools

**VIC-TAP® II**

*Download submittal 24.01 for complete information*

- Hole cutting tool including Style 931 Vic-Tap® II Mechanical-T™ unit for tapping into steel pipe systems under pressure up to 500 psi | 3447 kPa | 34 bar
- Hole size 60.5 mm | 2⅜"
- Power Requirements: 115 volt, single phase, 60 hertz, 7.5 amp
- Weight: Drill guide base: 6.8 kg | 15 lbs.; Drill motor and feed assembly: 7.3 kg | 16 lbs.; Style 931/Valve unit, 5.4–6.8 kg | 12–15 lbs., depending upon size (DN100, DN125, DN150, DN200 | 4, 5, 6 and 8" available)
- Standard Capability: DN100 – DN200 | 4 – 8" Run outlet only × DN65 mm | 2½" (IPS) Outlet
Pipe Cut-Off Tools

VCT1 MANUAL

Download submittal 24.01 for complete information

- Lightweight and portable pipe cut-off tool handles DN100–DN600 | 4–24" pipe, up to 12.7 mm | 0.5" thick
- Worm gear drive crank handle provides smooth, manual travel, easy control and accurate cutting
- Wall thickness: 1.65–12.7 mm | 0.065–0.500" (with tips supplied)
- Tips: Acetylene – 1 ea. #00, #0, #1
- Power Requirements: NA
- Weight: 10 kg | 22 lbs.

Pipe Cut-Off Tools

VCT2 AUTOMATIC

Download submittal 24.01 for complete information

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

victaulic.com
Pipe Preparation Tools

**Vic-Press® Tools**

**PFT510**

*Download submittal 24.01 for complete information*

- Designed for securing Vic-Press® Schedule 10S products onto Schedule 10S stainless steel pipe
- Tool package includes:
  - (1) PFT510 tool,
  - (2) 18V Lithium Ion batteries,
  - (1) battery charger,
  - (1) tool carrying case,
  - (1) jaw carrying case,
  - (1) each of jaws sized DN15 | ½", DN20 | ¾", DN25 | 1", DN40 | 1½", and DN50 | 2", and
  - (1) adapter jaw
- Not compatible with PFT505 and/or PFT509 tools/components
- Power Requirements: Battery pack 220 volt or 230 volt, 50 hertz, 1.1 amp (110 volt, 60 cycle, 6.5 amp option available)
- Weight: 9.5 kg | 21 lbs.
  (PFT510 with DN25 | 1" jaw)

**Tool Accessories**

**VPD752 POWER DRIVE**

*Download submittal 24.01 for complete information*

- Can be used as the power drive unit for the VE226, VE26, VE46, VE416FS and VE272SFS roll grooving tools provided each tool is equipped with the correct base plate
- Operated with a safety foot switch
- Power Requirements: 220 volt, 6 amp, 50/60 cycle (115 volts, 15 amp, 50/60 hertz option available)
- Weight: 63.4 kg | 140 lbs.
Tool Accessories

POWER MULE II

Download submittal 24.01 for complete information

- Ideal for driving individual Victaulic® cut grooving tools
- Heavy-duty, two wheeled unit drives Victaulic® cut grooving tools at the speed/power necessary for accurate grooving
- Rotating head for horizontal and vertical applications
- Power Mule II equipped with forward-off-reverse control and integral safety foot switch
- Full load speed: 35 rpm
- Power Requirements: 115 volts, 15 amp, 50/60 cycle (130 volts, 50 hertz, 8 amp option available)
- Weight: 86 kg | 190 lbs.

Tool Accessories

VAPS112 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed for supporting pipe to be roll grooved
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting pipe from stand
- Forward/traverse movement
- Capacity: DN20—DN300 | ¾—12” IPS pipe
- Load rating: 490 kg | 1,075 lbs.
- Vertical stroke: 368 mm | 14½” for adjusting rod, 216 mm | 8½” leg adjustment 584 mm | 23”
- Minimum pipe height from floor: 584 mm | 23” on DN300 | 12” pipe and 533 mm | 21” on DN25 | 1” pipe
- Weight: 86 kg | 190 lbs.
Tool Accessories
VAPS224 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed specifically for supporting pipe to be roll grooved
- Self-standing, heavy-duty unit permits free pipe rotation and traversing on ball transfers
- Capacity: DN50 – DN600 | 2 – 24” IPS pipe
- Load rating: 816 kg | 1,800 lbs.
- Vertical stroke: 584 mm | 23”
- Minimum pipe height from floor 325 mm | 13” on DN600 | 24” IPS pipe
- Maximum pipe height from floor 965 mm | 38” on DN50 | 2” IPS pipe
- Weight: 118 kg | 260 lbs.

Tool Accessories
VAPS1672 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed specifically for supporting pipe to be roll grooved
- Self-standing, heavy duty unit permits free pipe rotation and traversing on ball transfers
- Designed for use with VE436MC and VE460 tools
- Capacity: DN400 – DN1800 | 16 – 72” IPS pipe
- Load rating: 4535 kg | 10,000 lbs.
- Vertical Stroke 425 mm | 17”
- Minimum pipe height from floor 406 mm | 16” on DN1800 | 72” pipe
- Maximum pipe height from floor 711 mm | 28” on DN400 | 16” pipe
- Weight: 218 kg | 480 lbs.
Tool Accessories
VAPS270 ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed specifically for supporting pipe to be roll grooved
- Self-standing, heavy duty unit permits free pipe rotation and traversing on ball transfers
- Designed for use with VE108H, VE270FSD, VE271FSD and VE272SFS grooving tools
- Capacity: DN20 – DN300 | ¾ – 12" pipe
- Load rating: 300 kg | 660 lbs.
- Turnstile design allows grooving of both pipe ends without dismounting pipe from stand
- Minimum pipe height from floor: 930 mm | 37" 
- Maximum pipe height from floor: 630 mm | 25’
- Weight: 20 kg | 44 lbs.
Tool Accessories
PT101 AND PT102

Download submittal 24.01 for complete information

- Go/No-Go, pocket-sized steel tapes for taking circumferential measurements of pipe
- Go/No-Go side can be used to check cut or roll grooved pipe for conformance to Victaulic® grooved specifications
- Tapes notched on the lead end to allow proper overlap within the groove for more accurate measurement
- PT101 contains Go/No-Go markings for use with DN20 – DN600 | ¾ – 24" pipe; tape marked with 0.25 mm | 0.01" increments on the opposite side
- PT102 contains Go/No-Go markings for use with Original Groove System sizes DN200 – DN300 | 8 – 12" and Advanced Groove System sizes DN350 – DN1800 | 14 – 72"; tape marked in 0.5 mm | 0.02" increments on the opposite side
- Go/No-Go side of tapes may not be used to measure cast iron, ductile iron, or copper tube sizes

Style 809 Ring Clamps
LARGE RING CLAMP
SMALL RING CLAMP

Download submittal 15.02 for complete information

- For specific information on the appropriate tool by coupling, please download individual coupling product submittals
Manual Victaulic® Bolted Split-Sleeve Products (VBSP) Closure Tools
CTM-01 SMALL MANUAL TOOL
CTM-02 LARGE MANUAL TOOL

Download submittal 24.01 for complete information

- For specific information on the appropriate tool by coupling, please download individual coupling product submittals

Hydraulic VBSP Closure Tools
CTH-01 SMALL 10-TON HYDRAULIC TOOL
CTH-02 LARGE 25-TON HYDRAULIC TOOL

Download submittal 24.01 for complete information

- For specific information on the appropriate tool by coupling, please download individual coupling product submittals
Pipe Preparation Tools

Fabrication Cell

VAP131

Download submittal 24.01 for complete information

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

Fabrication Cell

VAPS 131R HYDRAULIC ADJUSTABLE PIPE STAND

Download submittal 24.01 for complete information

- Designed to support pipe for roll grooving
- Permits free pipe rotation and traversing on ball transfers
- Turnstile design allows pipe to be spun around for grooving of both pipe ends without dismounting from pipe stand
- Capacity: DN100–DN600 | 4–24” IPS pipe; load rating: 907 kg | 2000 lbs.
- Vertical stroke: 775 mm | 30.5”
- 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: 227 kg | 500 lbs.
Fabrication Cell
VAPS 131F HYDRAULIC POSITIONER

Download submittal 24.01 for complete information

- Designed to support grooved pipe, valves, and fittings when used in conjunction with the VAPS 131T Assembly Table
- Foot control provided for hands-free operation
- Swivel caster wheel design for better mobility
- Capacity: DN100 – DN600 | 4 – 24" IPS pipe; load rating: 544 kg | 1200 lbs. with wheels installed, 907 kg | 2000 lbs. without wheels
- Vertical stroke: 743 mm | 29.25"
- Power Requirements: 230 volt, 6 amp, 50 hertz (120 volt, 12 amp, 60 hertz option available)
- Weight: 181 kg | 400 lbs.

Fabrication Cell
VAPS 131T ASSEMBLY TABLE

Download submittal 24.01 for complete information

- Designed to support grooved pipe, valves, and fittings when used in conjunction with VAPS 131F Hydraulic Positioner
- Ball transfer assemblies can be positioned to accommodate pipe from DN50 – DN600 | 2 – 24"
- Capacity: DN100 – DN600 | 4 – 24" IPS pipe; load rating: 3629 kg | 8000 lbs.; ball transfers load rating 318 kg | 700 lbs.
- Vertical stroke: 743 mm | 29.25"
- Weight: 227 kg | 500 lbs.
**Elastomer Gasket Seals**

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

- **Installation-Ready™**
- **Standard**
- **Reducing**
- **Vic-Flange®**

- **FlushSeal®**
- **Grooved Copper Tubing with FlushSeal® Gasket**
- **Advanced Groove System (AGS)**
- **EndSeal®**

- **Outlet**
- **Mechanical-T®**
- **Shouldered Steel System**

- **Plain End**
- **Plain End Piping System for HDPE Pipe**
- **Vic-Press® for Schedule 10S Stainless Steel**

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

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**Design Data Tools Index**: OGS/VBSP/AGS Intro
Elastomer Gasket Seals

Gasket Materials

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

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

Gasket/Seal/O-Ring Data

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

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

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

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

Potable Water Listings and Classifications

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

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

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

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

Gasket Lubricant

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

Important Note: Victaulic® Lubricant is not compatible for use with high-density polyethylene (HDPE) pipe. ALWAYS USE LUBRICANT FOR PROPER COUPLING ASSEMBLY.

Valve Seals

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

victaulic.com
**WARNING**

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

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

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### Standard Gaskets — IPS

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

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

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

³ Vic-Plus™ pre-lubricated gasket.
# Elastomer Gasket Seals

## Special Gaskets — IPS

<table>
<thead>
<tr>
<th>Grade</th>
<th>Temp. Range</th>
<th>Compound</th>
<th>Color Code</th>
<th>General Service Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2</td>
<td>–40° C to +71° C</td>
<td>Epichlorohydrin</td>
<td>White Stripe</td>
<td>Specially compounded to provide superior service for common aromatic fuels at low temperatures. Also suitable for certain ambient temperature water services.</td>
</tr>
<tr>
<td>V</td>
<td>–34° C to +82° C</td>
<td>Neoprene</td>
<td>Yellow Stripe</td>
<td>May be specified for hot lubricating oils and certain chemicals. Good oxidation resistance. Will not support combustion.</td>
</tr>
<tr>
<td>O</td>
<td>–7° C to +149° C</td>
<td>Fluoroelastomer</td>
<td>Blue Stripe</td>
<td>May be specified for many oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids and air with hydrocarbons. <strong>NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.</strong></td>
</tr>
<tr>
<td>L</td>
<td>–34° C to +177° C</td>
<td>Silicone</td>
<td>Red Gasket</td>
<td>May be specified for dry heat, air without hydrocarbons to +177°C</td>
</tr>
<tr>
<td>A</td>
<td>–7° C to +82° C</td>
<td>White Nitrile</td>
<td>White Gasket</td>
<td>No carbon black content. May be used for food. Meets FDA requirements. Conforms to CFR Title 21 Part 177.2600. <strong>NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES.</strong></td>
</tr>
<tr>
<td>HMT (T EndSeal®)</td>
<td>–29ºC to +66ºC</td>
<td>Nitrile</td>
<td>Orange and Silver Stripes</td>
<td>Specially compounded with excellent oil resistance and a high modulus for resistance to extrusion. May be specified for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. For maximum gasket life under pressure extremes, the temperature should be limited to +49°C</td>
</tr>
<tr>
<td>EF</td>
<td>–34° C to +110° C</td>
<td>EPDM</td>
<td>Green “X”</td>
<td>May be specified for hot and cold water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. WRAS approved material to BS 6920 for cold and hot potable water requirements per DVGW, KTW, ÖVGW, SVGW and French ACS (Crecep), approved for W534, approved for EN681-1 Type WA cold potable and Type WB hot potable water service. <strong>NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES.</strong></td>
</tr>
<tr>
<td>EW</td>
<td>–34° C to +110° C</td>
<td>EPDM</td>
<td>Green “W”</td>
<td>May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. WRAS approved material to BS 6920 for cold and hot potable water service up to +65°C</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Temp. Range</th>
<th>Compound</th>
<th>Color Code</th>
<th>General Service Guidelines</th>
</tr>
</thead>
</table>
| **H** | -29°C to +98°C  
-20°F to +210°F | Hydrogenated Nitrile Butadiene Rubber (HNBR)  
Two Orange Stripes | | May be specified for hot petroleum/water mixtures, hydrocarbons, air with oil vapors, vegetable and mineral oils, engine oil and transmission oil, UL Classified in accordance with ANSI/NSF 61 for cold +23°C | +73°F and hot +82°C | +180°F potable water service and ANSI/NSF 372.  

Standard Seal: Vic-Press® products will ship with Grade “H” seal unless otherwise specified on order. |
| **E** | -34°C to +121°C  
-30°F to +250°F | EPDM | Green Stripe | May be specified for hot water service, dilute acids, oil-free air, chemical services, UL Classified in accordance with ANSI/NSF 61 for cold +23°C | +73°F and hot +82°C | +180°F potable water service and ANSI/NSF 372.  

**NOT COMPATIBLE FOR USE WITH PETROLEUM OR STEAM SERVICES.** |
| **O** | +6°C to +149°C  
+20°F to +300°F | Fluoroelastomer | Blue Stripe | May be specified for oxidizing acids, petroleum oils, halogenated hydrocarbons, lubricants, hydraulic fluids, organic liquids, and air with hydrocarbons.  

**NOT COMPATIBLE FOR USE WITH HOT WATER OR STEAM SERVICES.** |

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

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

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

## VBSP Gaskets

<table>
<thead>
<tr>
<th>Grade</th>
<th>Temp. Range</th>
<th>Compound</th>
<th>Color Code</th>
<th>General Service Guidelines</th>
</tr>
</thead>
</table>
| T     | -28ºC to +82ºC  
-20ºF to +180ºF | Nitrile   | N/A        | Water; petroleum products, vegetable and mineral oils; air with oil vapors within allowable temperature. |
| O     | -7ºC to +149ºC  
+20ºF to +300ºF | Fluoroelastomer | N/A         | Outstanding resistance to heat and most chemicals. |
| V     | -34ºC to +82ºC  
-30ºF to +180ºF | Neoprene  | N/A        | Water and wastewater; good resistance to ozone, effects of UV and some oils. |

1 For specific chemical and temperature compatibility, refer to the [Gasket Selection Guide (05.01)](https://victaulic.com) which includes the Gasket Chemical Services Short Report or refer to the [Gasket Chemical Services Guide Long Report (GSG-100)](https://victaulic.com). The information shown defines general ranges for all compatible fluids.
**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 fully detailed index, see pg. 115. 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 DN350–DN1800 | 14–72" pipe sizes.

Pipe must be prepared to meet Victaulic® specifications outlined for each specific product style. Performance data listed herein is based on proper pipe preparation. The proper gasket must be selected for the service intended. It should be noted that there are various services for which Victaulic® gaskets are not recommended. Reference should always be made to the latest Victaulic® Gasket Selection Guide (download submittal 05.01) for specific gasket service recommendations and for a listing of services which are not recommended. Gaskets for Victaulic® products always must be lubricated for proper assembly.

Gasket lubricant must meet manufacturer’s specifications. Thorough lubrication of the gasket exterior, including the lips and/or pipe ends and housing interiors, is essential to prevent gasket pinching. Lubrication assists proper gasket seating and alignment during installation.

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

**Notice**

The technical and performance data, weights, dimensions and specifications published in this catalog supersede all previously published data. Victaulic® maintains a policy of continual product improvement and, therefore, reserves the right to change product specifications, designs, and standard equipment without notice and without incurring obligation.

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

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

**Design**

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

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

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

**Installation**

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

- I-100 General Handbook
- I-P500 Vic-Press® Handbook
- I-600 Copper Products Handbook
- I-900 HDPE Products Handbook

Handbooks are included with each shipment of Victaulic® products for complete installation and assembly data, and are available in PDF format on our website at victaulic.com.
### Global Pipe Size Designations

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

<table>
<thead>
<tr>
<th>Nominal Imperial Inches – Size Group</th>
<th>Outside Diameter mm/Spec Ref</th>
<th>DN mm</th>
<th>JIS mm</th>
<th>ANSI inches</th>
<th>China Standard (GB) mm</th>
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<tbody>
<tr>
<td>½</td>
<td>21.3 mm</td>
<td>DN15</td>
<td>21.3 mm</td>
<td>15 A 21.7 mm</td>
<td>½ 15* 21.3 mm</td>
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<tr>
<td>¼</td>
<td>26.7 mm</td>
<td>DN20</td>
<td>26.9 mm</td>
<td>20 A 27.2 mm</td>
<td>¼ 20*26.9 mm</td>
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<tr>
<td>1</td>
<td>33.4 mm</td>
<td>DN25</td>
<td>33.7 mm</td>
<td>25 A 34 mm</td>
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<tr>
<td>1¼</td>
<td>42.2 mm</td>
<td>DN32</td>
<td>42.4 mm</td>
<td>32 A 42.7 mm</td>
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<tr>
<td>1½</td>
<td>48.3 mm</td>
<td>DN40</td>
<td>48.3 mm</td>
<td>40 A 48.6 mm</td>
<td>1 ½ 40*48.3 mm</td>
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<tr>
<td>2</td>
<td>60.3 mm</td>
<td>DN50</td>
<td>60.3 mm</td>
<td>50 A 60.5 mm</td>
<td>2 50*60.3 mm</td>
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<tr>
<td>2½</td>
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<td></td>
<td>73.1 mm</td>
<td></td>
<td>2½</td>
</tr>
<tr>
<td>3</td>
<td>76.1 mm (DNISO (3 OD))</td>
<td>DN65</td>
<td>76.1 mm</td>
<td>65 A 76.3 mm</td>
<td>3 65*76.1 mm</td>
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<td>JIS 100 A</td>
<td>4 100*114.3 mm</td>
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<td>5</td>
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<td>133.0 mm</td>
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<td>139.7 mm (DNISO (5.5 OD))</td>
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<td>406.4 mm</td>
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<td>JIS 400 A</td>
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<td>JIS 450 A</td>
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<td>457.2 mm</td>
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<td>480 mm China</td>
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<td>JIS 500 A</td>
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<td>508 mm</td>
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<td>530 mm China</td>
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<td>JIS 550 A</td>
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<td>22</td>
<td>558.8 mm</td>
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<td>JIS 550 A</td>
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<td>559 mm</td>
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### Design Data

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<th>Nominal Imperial Inches – Size Group mm/Spec Ref</th>
<th>Outside Diameter mm</th>
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<th>JIS mm</th>
<th>ANSI inches</th>
<th>China Standard (GB) mm</th>
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<td>610 mm</td>
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<td></td>
<td>630 mm China</td>
<td>—</td>
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<td>630 mm</td>
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<tr>
<td>26</td>
<td>660 mm</td>
<td>660 mm</td>
<td>JIS 650 A</td>
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<td>DN1000</td>
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<td>1372 mm</td>
<td>JIS 1372</td>
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<td>1422 mm</td>
<td>JIS 1422</td>
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<td>1524 mm</td>
<td>JIS 1524</td>
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<td>1574 mm</td>
<td>JIS 1574</td>
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<td>72</td>
<td>1828 mm</td>
<td>DN1800</td>
<td>1828 mm</td>
<td>JIS 1828</td>
<td>72</td>
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</tbody>
</table>

**GENERAL NOTES:**

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

* Nominal sizes
**Imperial (U.S.)/Metric Conversion Chart**

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

<table>
<thead>
<tr>
<th>Convert Imperial (U.S.) to Metric</th>
<th>Convert Metric to Imperial (U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.4 × Inches (In.) ↔ Millimeters (mm) × 0.03937</td>
<td></td>
</tr>
<tr>
<td>0.3048 × Feet (Ft.) ↔ Meters (m) × 3.281</td>
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<tr>
<td>0.4536 × Pounds (Lbs.) ↔ Kilograms (kg) × 2.205</td>
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</tr>
<tr>
<td>28.35 × Ounces (Oz.) ↔ Grams (g) × 0.03527</td>
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</tr>
<tr>
<td>6.894 × Pressure (psi) ↔ Kilopascals (kPa) × 0.145</td>
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</tr>
<tr>
<td>0.069 × Pressure ↔ Bar × 14.5</td>
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</tr>
<tr>
<td>4.45 × End Load (Lbs.) ↔ Newtons (N) × 0.2248</td>
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</tr>
<tr>
<td>1.356 × Torque (Lb. Ft.) ↔ Newton Meters (N•m) × 0.738</td>
<td></td>
</tr>
<tr>
<td>F - 32 ÷ 1.8 Temp.(°F) ↔ Celsius (°C) C + 17.78 × 1.8</td>
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</tr>
<tr>
<td>745.7 × Horsepower (hp) ↔ Watts (w) × 1.341 × 10³</td>
<td></td>
</tr>
<tr>
<td>3.785 × Gal. per Min. (GPM) ↔ Liters per Min. (L/M) × 0.2642</td>
<td></td>
</tr>
<tr>
<td>3.785 × 10⁻³ Gal. per Min. (GPM) ↔ Cubic Meters per Min. (m³/m) × 264.2</td>
<td></td>
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<td>Index</td>
<td></td>
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<td>-----------------------------------------------------------------------</td>
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<td><strong>Original Groove System (OGS)</strong></td>
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<td>Ball Valve 17</td>
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<td>Brass Body Valve — Threaded 18</td>
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<td>Butterfly Valve 14</td>
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<td>Delta-Y Assemblies 20</td>
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<tr>
<td>Diverter Valve 16</td>
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<td>EndSeal® System 23</td>
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<tr>
<td>Expansion Joint 13</td>
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<tr>
<td>Fittings — Adapters, Nipples, Caps and Plugs 11</td>
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<tr>
<td>Fittings — Elbows 9</td>
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<td>Fittings — Reducers 12</td>
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<td>Fittings — Tees, Crosses, Wyes and Laterals 10</td>
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<td>Flexible Coupling 4</td>
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<td>High Pressure Coupling 22</td>
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<td>Mover® Expansion Joint 13</td>
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<td>MTS Plug Valve 19</td>
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<td>Snap-Joint® Coupling 5</td>
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<td>Suction Diffuser 21</td>
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<td>XL Couplings for use with XL Fittings 6</td>
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<td>XL (Extended Life) System for Rubber-lined Abrasive Services 24</td>
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<td>Non-Restrained Flexible Coupling for Stainless Steel Pipe 34</td>
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**Victaulic.com**
Warranty

WARRANTY:

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

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

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

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

Items purchased by Victaulic® and resold will have the original equipment manufacturer's warranty extended to Victaulic® customers.
WHERE INNOVATION AND SOLUTIONS ARE JOINED TOGETHER

Regulatory Compliance

PRODUCT CERTIFICATIONS:

Fire Protection
ACTIFIRE – Activ Fire
Register of Fire Protection Equipment (Australia)
CCCF – China Certification Center for Fire Protection Products (China)
CPP – Chinese Fire Protection Safety Center (Taiwan)
CNBOP – Centrum Narodowe Budoewarce Ochrony Przeciwpowazowej (Poland)
CNPP – Centre National de Prévention et de Protection (France)
CTPC – Consiliul Tehnic Permanent Pentru Constructii (Romania)
cHus – Underwriter’s Laboratories, LLC (USA)
EMI – Epoxyglass Mnísopeřené Inovatívnie (Hungary)
FDNY – City of New York Fire Department (USA)
FM – FM Approvals (USA)
HDB – Singapore Housing Development Board (Singapore)
KFI – Korea Fire Industry Technology Institute (Korea)
LPSC – Loss Prevention Certification Board (UK)
SBSC – Sverdlov Brond & Säkerhets Certfiling AB (Sweden)
TFIR – Tarjin Fire Research Institute of Ministry of Public Security (China)
TSU – Technically Skusbný Ústav Plavby, í.p. (Slovakia)
TSUS – Technicky Skusbný Ústav Stavební, n.o. (Slovakia)
TZUS – Technicky a Zúčastní Ústav Stavební Praha, s.p. (Czech Republic)
UKIRFREEREST – State Certification Center (Ukraine)
UL – Underwriter’s Laboratories, LLC (USA)
ULC – Underwriter’s Laboratories of Canada (Canada)
VSS – Verband der Schadenverhütung GmbH (Germany)
VFK – Vereinigung Kantonaler Feuerwehrversichungen (Schweiz)
Zagrebnéspis (Croatia)

Potable Water
ANTSZ – Alumini Növekedésigazgatás és Tisztítóterv Szolgáltatás (Hungary)
ARPA – Agenzia Regionale per la Protezione dell’ambiente (Italy)
DVGW – Deutscher Verein des Gas- und Wasserfaches e.V. (Germany)
Eurofins – ACS – Attestation de Conformité Sanitaire (France)
HIZZ – Croatian National Institute of Public Health (Croatia)
NSF – NSF International (USA)
ÖVGW – Österreichische Vereinigung für das Gas- und Wasserfach (Austria)
POL – Państwowy Zakład Higieny (Poland)
RUVPP – Regionálny úrad ven/vnútro zdrovotnich so sidom v Poprade (Slovakia)
SAI – SAI Global (Australia)
SPAN – Suruhanjaya Pelaksanaan Kebersihan Air Negara (Malaysia)
SVGW – Schweizerscher Verein des Gas- und Wasserfaches (Switzerland)
UK – Underwriter’s Laboratories, LLC (USA)
WAS – Water Regulations Advisory Scheme (UK)
ÚÚVA – ZDRAVOTNÍ ÚSTAV s.ú.d. v Ostrave (Czech Republic)

Compliance:

Codes/Standards
ANSI – American National Standards Institute (USA)
API – American Petroleum Institute (USA)
APISD – Assembled Plastичe Assercial Assurance Dommaggio (France)
AS/NZS – Standards Australia and Standards New Zealand (AU & NZ)
ASTM – American Society for Testing and Materials (USA)
AWWA – American Water Works Association (USA)
BCA – Building Officials and Code Administrators (USA)
BOCA – Building Officials Code Administrators (USA)
CSI – Canadian Standards Association (Canada)
CSF – California State Fire Marshal (USA)
EN – European Standards
GOST R – Gosstandart (Russia)
IFC – International Plumbing Code (USA)
ISO – International Standards Organization (Global)
NACE – National Association of Corrosion Engineers (USA)
NFPA – National Fire Protection Association (USA)
SBCG – Southern Building Code Congress International (USA)
UPC – Uniform Plumbing Code (USA)

Pressure Equipment Safety
97/23/EC PED – Pressure Equipment Directive (Europe)
CSA B51 – Boiler, Pressure Vessel, and Pressure Piping Code (Canada)
CRN – Canadian Registration Number per CSA B51 (Canada)

Chemical Safety / Recycling
(EC/2006/42) REACH – Registration, Evaluation, Authorization, and Restriction of Chemicals (Europe)

Building Services
(EU/2015/863) CPR – Construction Products Regulation – Fire safety products (Europe)
IBC – National Building Code (Canada)
PSB – TUV SUD PSB Singapore (Singapore)

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

Seismic
GOSHIP – Office of Statewide Health Planning and Development (USA)

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

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