

Victaulic® StrengThin™ System

Style D08 Coupling



1.0 PRODUCT DESCRIPTION

Available Sizes

- 2 – 20"/50 – 500 mm

Pipe Material

- Designed specifically for use on 2507, Zeron 100, 2205, 254SMO and AL6XN Stainless Steel Pipe.

Maximum Working Pressure

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) up to 1200psi (8274 kPa).
- Working pressure dependent on wall thickness and size of pipe (see [section 5.0](#) for Performance).

Operating Temperature

- Dependent on gasket selection from section 3.0.

Application

- Provides a rigid pipe joint.
- Joins pipe and Victaulic StrengThin™ fittings, valves and accessories.

Pipe Preparation

- Exclusively for use with fittings, valves, accessories and pipe which feature ends formed with the Victaulic StrengThin™ groove profile (see [section 7.0](#) for Reference Materials).

2.0 CERTIFICATIONS/LISTINGS

Product manufactured by Victaulic and/or certified suppliers in accordance with ISO-9001.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

3.0 SPECIFICATIONS – MATERIAL

Housing: Ductile iron conforming to ASTM A-536, Grade 65-45-12.

Housing Coating: VC-200.

Gasket: (specify choice¹)

☐ **Grade “E3” EPDM (FlushSeal®)**

(1 Green and 1 Silver Stripe Color Code). Temperature –30°F to +250°F/–34°C to +121°C. May be specified for cold and hot water services within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. NOT COMPATIBLE FOR PETROLEUM SERVICES.

¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Gasket Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

Hex Bolts: Conform to ASTM F-593, Group 2 (316 stainless steel), condition CW.

Heavy Hex Nuts: ASTM F467, Type 651/655 silicon bronze

Optional Nuts: ASTM F-594, Group 2, 316 stainless steel, condition CW with galling reducing coating

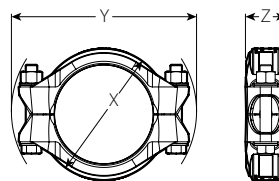
Washers:

Metal Washers: 316 stainless steel

Plastic Washers: ASTM D 710 Vulcanized Fibre

4.0 DIMENSIONS

Style D08



Size		Pipe End Separation ²	Bolt/Nut		Nut Torque ft-lbs N•m	Dimensions			Weight
Nominal inches DN	Actual Outside Diameter inches mm	Allowable inches mm	Qty.	Size inches		X inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg
2 DN50	2.375 60.3	0.25 6.4	2	½ x 3	35-50 47-68	3.96 101	6.91 176	2.56 65	6.1 2.8
2½ DN65	2.875 73.0	0.25 6.4	2	½ x 3	35-50 47-68	4.59 117	7.36 187	2.85 72	7.4 3.4
3 DN80	3.500 88.9	0.25 6.4	2	½ x 3	35-50 47-68	5.21 132	7.99 203	2.85 72	8.4 3.8
4 DN100	4.500 114.3	0.25 6.4	2	⅝ x 3½	70-100 95-136	6.52 166	9.66 245	2.92 74	12.7 5.8
6 DN150	6.625 168.3	0.25 6.4	2	¾ x 4	110-150 149-203	8.99 228	12.75 324	3.05 77	21.7 9.8
8 DN200	8.625 219.1	0.25 6.4	2	1 x 7	225-325 305-441	11.47 291	16.22 412	3.59 91	42.3 19.2
10 DN250	10.750 273.0	0.25 6.4	2	1¼ x 7½	350-450 475-610	14.12 359	19.38 492	3.62 92	63.9 29.0
12 DN300	12.750 323.9	0.25 6.4	2	1¼ x 7½	350-450 475-610	16.30 414	21.54 547	3.74 95	76.0 34.5
14 DN350	14.000 355.6	0.25 6.4	2	1½ x 8	500-600 678-814	18.18 462	24.35 618	4.25 108	115.3 52.3
16 DN400	16.000 406.4	0.25 6.4	2	1½ x 8	500-600 678-814	20.18 513	26.23 666	4.22 107	124.5 56.5
18 DN450	18.000 457.0	— —	—	—	— —	— —	— —	— —	— —
20 DN500	20.000 508.0	0.25 6.4	2	1½ x 8	500 - 600 678 - 814	24.62 625	31.00 787	4.50 114	175.0 79.4

² The allowable pipe end separation dimension shown is for system layout purposes only. Style D08 rigid couplings are considered rigid connections and will not accommodate expansion/contraction or angular movement of the piping system. Contact Victaulic for torsional resistance information.

- For additional sizes contact Victaulic.

5.0 PERFORMANCE

Style D08

Nominal Size inches DN	Actual Outside Diameter inches mm	Nominal Shoulder Diameter inches mm	Schedule 10S			Schedule 20		
			Max. Joint Work Press. psi kPa	Max. Perm. End Load lb N	Nom. Wall Thick. inches mm	Max. Joint Work Press. psi kPa	Max. Perm. End Load lb N	Nom. Wall Thick. inches mm
2 DN50	2.375 60.3	2.595 65.91	1200 8274	5316 23647	0.109 2.8	—	—	—
2½ DN65	2.875 73.0	3.225 81.92	1200 8274	7790 34652	0.120 3.0	—	—	—
3 DN80	3.500 88.9	3.850 97.79	1200 8274	11545 51356	0.120 3.0	—	—	—
4 DN100	4.500 114.3	4.850 123.19	1200 8274	19085 84895	0.120 3.0	—	—	—
6 DN150	6.625 168.3	7.075 179.71	1200 8274	41366 184005	0.134 3.4	—	—	—
8 DN200	8.625 219.1	9.075 230.51	—	—	—	1200 8274	70112 311872	0.250 6.4
10 DN250	10.750 273.0	11.200 284.48	—	—	—	1200 8274	108915 484479	0.250 6.4
12 DN300	12.750 323.9	13.200 335.28	—	—	—	1200 8274	153212 681519	0.250 6.4
14 DN350	14.000 355.6	14.580 370.33	—	—	—	1200 8274	184726 821701	0.312 7.9
16 DN400	16.000 406.4	16.580 421.13	—	—	—	1200 8274	241274 1073242	0.312 7.9

Grooved x Butt Weld Adapter Rings

Nominal Size inches DN	Actual Outside Diameter inches mm	Nominal Shoulder Diameter inches mm	Schedule 20			Schedule 40			Schedule 40S		
			Max. Joint Work Press. psi kPa	Max. Perm. End Load lb N	Nom. Wall Thick. inches mm	Max. Joint Work Press. psi kPa	Max. Perm. End Load lb N	Nom. Wall Thick. inches mm	Max. Joint Work Press. psi kPa	Max. Perm. End Load lb N	Nom. Wall Thick. inches mm
18 DN450	18.000 457.0	—	—	—	—	—	—	—	—	—	—
20 DN500	20.000 508.0	20.690 525.53	1200 8274	376991 1676940	0.375 9.5	1200 8274	376991 1676940	0.593 15.1	1200 8274	376991 1676940	0.375 9.5

- For additional performance information contact Victaulic.

6.0 NOTIFICATIONS

**WARNING**



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

**WARNING**

- This product must be used on pipe that is prepared to StrengThin™ specifications using VSF216 equipment.
- DO NOT attempt to assemble this product on pipe that is direct grooved to Victaulic Advanced Groove System (AGS) or Victaulic Original Groove System (OGS) specifications.

Failure to follow these instructions could cause improper installation, resulting in death, serious personal injury, or property damage.

7.0 REFERENCE MATERIALS

- [17.01: Stainless Steel Pipe End Preparation](#)
- [05.01: Seal Selection Guide Elastomeric Seal Construction](#)
- [24.01: Pipe Preparation Tool Specifications](#)
- [I-D08: StrengThin™ Rigid Coupling](#)
- [26.01: Grooved Piping System – Design Data](#)
- [29.01: Terms and Conditions of Sale/Warranty](#)
- [17.32: StrengThin High Pressure Duplex and Super Duplex Fittings](#)
- [17.36: Victaulic Plug Valve MTS Series 465](#)
- [17.37: Series 415 Double Disc Check Valve](#)

User Responsibility for Product Selection and Suitability Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic’s published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company’s standard conditions of sale, warranty, installation instructions, or this disclaimer.	Intellectual Property Rights No statement concerning the use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its affiliates, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms “Patented” or “Patent Pending” refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries. Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.
Installation Always refer to and follow the Victaulic Installation Handbook or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at victaulic.com.	Note All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.
Warranty Refer to the Warranty section of the current Price List or contact Victaulic for details.	