

# Stainless Steel – Couplings

## StrengThin™ System Style D08



### 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).

#### Operating Temperature

- Dependent on gasket selection from section 3.0.

#### Function

- Joins pipe, valves and fittings.
- Provides a rigid pipe joint designed to restrict axial and angular movement.

#### Pipe Preparation

- Designed specifically for use on Victaulic StrengThin System formed ends.  
For additional information contact Victaulic.

### 2.0 CERTIFICATION/LISTINGS

Not applicable – contact Victaulic with any questions.

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

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

### 3.0 SPECIFICATIONS – MATERIAL

---

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

**Housing Coating:** VC-200.

**Gasket: (specify choice<sup>1</sup>)**

**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.

<sup>1</sup> 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

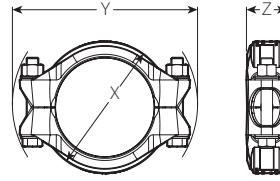
**Washers:**

Metal Washers: 316 stainless steel

Plastic Washers: ASTM D 710 Vulcanized Fibre

## 4.0 DIMENSIONS

### Style D08



Size		Pipe End Separation <sup>2</sup>	Bolt/Nut		Nut Torque ft-lbs N•m	Dimensions			Weight
Nominal inches mm	Actual Outside Diameter inches mm	Allowable inches mm	Qty.	Size inches mm		X inches mm	Y inches mm	Z inches mm	Approximate (Each) lb kg
2 50	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 65	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 80	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
4 100	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
6 150	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
8 200	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
10 250	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
12 300	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
14 350	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
16 400	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
18 450	18.000 457.0	– –	– –	– –	– –	– –	– –	– –	– –
20 500	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

<sup>2</sup> 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 mm	Actual Outside Diameter inches mm	Nominal Shoulder Diameter inches mm	Schedule 10S			Schedule 20		
			Max. Joint Work Press.	Max. Perm. End Load	Nom. Wall Thick.	Max. Joint Work Press.	Max. Perm. End Load	Nom. Wall Thick.
			psi kPa	lb N	inches mm	psi kPa	lb N	inches mm
2 50	2.375 60.3	2.595 65.91	1200 8274	5316 23647	0.109 2.8	-	-	-
2½ 65	2.875 73.0	3.225 81.92	1200 8274	7790 34652	0.120 3.0	-	-	-
3 80	3.500 88.9	3.850 97.79	1200 8274	11545 51356	0.120 3.0	-	-	-
4 100	4.500 114.3	4.850 123.19	1200 8274	19085 84895	0.120 3.0	-	-	-
6 150	6.625 168.3	7.075 179.71	1200 8274	41366 184005	0.134 3.4	-	-	-
8 200	8.625 219.1	9.075 230.51	-	-	-	1200 8274	70112 311872	0.250 6.4
10 250	10.750 273.0	11.200 284.48	-	-	-	1200 8274	108915 484479	0.250 6.4
12 300	12.750 323.9	13.200 335.28	-	-	-	1200 8274	153212 681519	0.250 6.4
14 350	14.000 355.6	14.580 370.33	-	-	-	1200 8274	184726 821701	0.312 7.9
16 400	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 mm	Actual Outside Diameter inches mm	Nominal Shoulder Diameter inches mm	Schedule 20			Schedule 40			Schedule 40S		
			Max. Joint Work Press.	Max. Perm. End Load	Nom. Wall Thick.	Max. Joint Work Press.	Max. Perm. End Load	Nom. Wall Thick.	Max. Joint Work Press.	Max. Perm. End Load	Nom. Wall Thick.
			psi kPa	lb N	inches mm	psi kPa	lb N	inches mm	psi kPa	lb N	inches mm
18 450	18.000 457.0	-	-	-	-	-	-	-	-	-	-
20 500	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

- This product must be used on pipe that is prepared to StrenghThin™ 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

Not applicable – contact Victaulic with any questions.

### User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

### Intellectual Property Rights

No statement contained herein concerning a possible or suggested 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 subsidiaries or affiliates covering such use or design, 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.

### Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

### Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of 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 [www.victaulic.com](http://www.victaulic.com).

### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

### Trademarks

*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.