

# StrengThin™ High Pressure Duplex and Super Duplex Fittings



17.32



## Product Description:

Victaulic offers StrengThin™ high pressure fittings from 3"/80mm up to 16"/400mm in duplex and super duplex stainless steel. Refer to dimensional data in this submittal for complete details. Configurations include elbows, tees, reducing tees, concentric reducers, and caps.

Victaulic StrengThin™ fitting pressure ratings are equivalent to the pressure ratings of the coupling when installed on Schedule 10S and Schedule 20 super austenitic, duplex and super duplex pipe.

StrengThin fittings are to be used with Style D08 rigid couplings only. For other sizes and styles, please contact Victaulic.

The StrengThin System leverages a high strength groove profile to provide increased performance on thin wall pipe.

## Material Specifications:

**Cast Fittings (3 – 8" 80 – 200 mm):** CE3MN Super Duplex Stainless Steel conforming to ASTM A-890, Grade 5A, UNS J93404

Optional: CE8MN Duplex Stainless Steel conforming to ASTM A-890, Grade 2A, UNS J93345

**Fabricated Fittings (10 – 16" 250 – 400 mm):** Super Duplex cast materials conforming to UNS J93404 combined with wrought materials conforming to Super Duplex UNS S32750

Optional: Super Duplex cast materials conforming to UNS J93404 combined with wrought materials conforming to Super Duplex UNS S32760

Optional: Duplex cast materials conforming to UNS J93345 combined with wrought materials conforming to Duplex UNS S31803

Optional: Duplex cast materials conforming to UNS J93345 combined with wrought materials conforming to Duplex UNS S32205

## WARNING

- **The products must be used on pipe that is prepared to StrengThin™ specifications using Victaulic VSF216 equipment.**
- **DO NOT attempt to assemble these products 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.**

### Job/Owner

System No.	
Location	

### Contractor

Submitted By	
Date	

### Engineer

Spec Section	
Paragraph	
Approved	
Date	

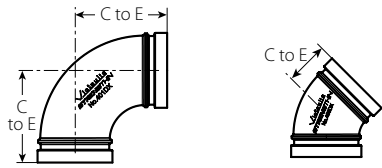


**Dimensions:**

**Elbows**

**No. 401DX 90° Elbow**

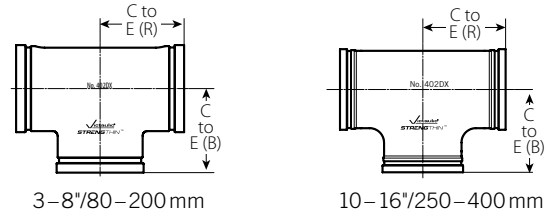
**No. 403DX 45° Elbow**



Size Nominal Diameter inches mm	401DX 90° Elbow		403DX 90° Elbow	
	C to E inches. mm	Approx. Weight Each lbs. kg	C to E inches. mm	Approx. Weight Each lbs. kg
3 80	4.75 121	4.6 2.1	2.71 69	3.0 1.4
4 100	6.00 152	8.0 3.6	3.00 76	4.7 2.1
6 150	9.00 229	18.0 8.2	3.75 95	9.6 4.4
8 200	12.00 305	46.0 20.9	5.00 127	23.8 10.8
10 250	13.13 334	70.1 31.8	9.38 238	57.6 26.2
12 300	15.13 384	95.4 43.4	10.63 270	77.6 35.3
14 350	17.38 441	126.6 57.5	12.13 308	103.6 47.1
16 400	19.38 492	160.6 73.0	13.38 340	130.5 59.3

**Tee**

**No. 402DX Tee**



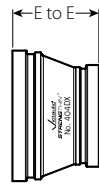
Size Nominal Diameter inches mm	C to E (Run) inches. mm	C to E (Branch) inches. mm	Approx. Weight Each lbs. kg
3 80	4.88 124	4.63 118	8.0 3.6
4 100	5.69 145	5.44 138	13.9 6.3
6 150	7.25 184	7.00 178	29.3 13.3
8 200	8.75 222	8.75 222	58.0 26.3
10 <sup>1</sup> 250	11.63 295	11.63 295	86.4 39.3
12 <sup>1</sup> 300	13.13 334	13.13 334	114.3 52.0
14 <sup>1</sup> 350	14.38 365	14.38 365	147.1 66.8
16 <sup>1</sup> 400	15.38 391	15.38 391	176.5 80.2

1 10-16"/250-400mm No. 402DX are fabricated products.

**Dimensions**

**Concentric Reducer**

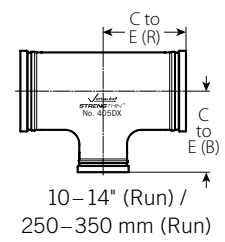
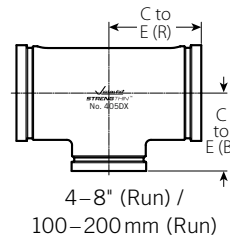
**No. 404DX Concentric Reducer**



Size Nominal Diameter inches mm	E to E inches. mm	Approx. Weight Each lbs. kg
6 x 4 150 x 100	5.50 140	6.7 3.0
8 x 4 200 x 100	6.00 152	12.0 5.4
	6 150	6.00 152
10 x 6 250 x 150	13.00 330	31.5 14.3
	8 200	13.25 337
12 x 8 300 x 200	14.25 362	45.3 20.6
	10 250	14.25 362
14 x 10 350 x 250	19.50 495	75.2 34.2
	12 300	19.50 495
16 x 12 400 x 300	20.50 521	92.2 41.9

**Reducing Tee**

**No. 405DX Reducing Tee**



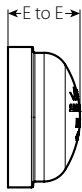
Size Nominal Diameter inches mm	C to E (Run) inches. mm	C to E (Branch) inches. mm	Approx. Weight Each lbs. kg
	3 80	5.50 140	12.1 5.5
6 x 6 x 4 150 x 150 x 100	7.25 184	5.50 140	26.8 12.1
	8 x 8 x 4 200 x 200 x 100	8.75 222	6.75 172
	6 150	8.75 222	53.2 24.1
10 <sup>2</sup> x 10 x 6 250 x 250 x 150	11.63 295	10.50 267	79.3 36.1
	8 200	11.63 295	84.0 38.2
12 <sup>2</sup> x 12 x 6 300 x 300 x 150	13.13 334	11.50 292	104.9 47.7
	8 200	13.13 334	109.6 49.8
	10 250	13.13 334	112.0 50.9
14 <sup>2</sup> x 14 x 6 350 x 350 x 150	14.38 365	12.26 311	104.3 47.4
	8 200	14.38 365	113.5 51.6
	10 250	14.38 365	117.6 53.4
	12 300	14.38 365	121.8 55.4

2 10-16"/250-400mm No. 405DX are fabricated products.

**Dimensions:**

**Cap**

**No.406DX Cap**



Size Nominal Diameter	E to E		Approx. Weight Each
	inches	mm	
3	2.25	57	1.4
80			0.6
4	2.50	64	2.4
100			1.1
6	3.00	76	4.9
150			2.2
8	4.00	102	10.7
200			4.9
10	4.50	114	17.0
250			7.7
12	5.00	127	24.6
300			11.2
14	5.50	140	32.9
350			15.0
16	6.00	152	46.4
400			21.1

**Installation**

Reference should always be made to the installation instructions provided with the product you are installing.

**Warranty**

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

**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.

**Trademarks**

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