



## 1.0 PRODUCT DESCRIPTION

### Available Sizes

- 3 – 36"/DN80 – DN900

### Maximum Working Pressure

- Fitting maximum pressure ratings are equivalent to the pressure ratings of the coupling used to install them (See section 7.0 for Reference Materials).

### Application

- Supplied with rigid radius grooves in accordance with ANSI/AWWA C-606
- Connects pipe, provides change in direction, and adapts sizes or components.

### Pipe Material

- Ductile iron, gray iron

### NOTES

- Fittings conform to ANSI A21.10/AWWA
- C-110 for center-to-end dimensions and AWWA C-153 or ANSI A21.10/AWWA C-110 for wall thickness.
- Fittings are available with flanged ends wherever grooved ends are shown.
- Linings include cement/mortar Type 2 (standard) and others. Fittings can readily be prepared for glass lining by others.
- Victaulic fittings shown have an end-to-end dimension tolerance of  $\pm 1/8"$  in all sizes and styles.
- Victaulic can supply tapped fittings on order to ANSI B16.1 dimension locations. Specify fitting size, tap location by letter on order.
- Grooved end base 90° elbows and base tees are available with dimensions to ANSI B16.1.

## 2.0 CERTIFICATION/LISTINGS

Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2008.

**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

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**Fitting:**

Ductile iron conforming to ASTM A-536, Grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15 is available upon special request.

**Fitting Coating: (specify choice)**

- **Standard on request**

- Non-coated
- Alkyd-phenol primer
- Bituminous coating

- **Optional**

- Coal tar epoxy coating
- Cement/mortar lining – Type II
- Glass Lining
- Other linings available. Contact Victaulic.

**NOTES**

- Coatings are applied per manufacturer’s recommended mils.
- The standard black asphalt coating used on Victaulic cement lined AWWA size fittings is NSF 61 Listed.
- Cast surfaces will be provided with surface equivalent to SSPC-SP6 prior to coating unless specified otherwise.

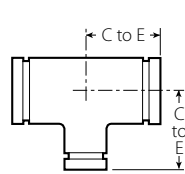
### 4.3 DIMENSIONS

#### Reducing Fittings

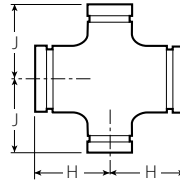
No. 25-C Reducing Tee

No. 35-CR Reducing Cross

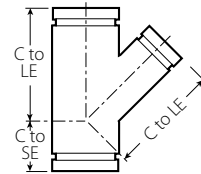
No. 30-CR 45° Reducing Lateral



No. 25-C



No. 35-CR



No. 30-CR

Size		No. 25-C Reducing Tee			No. 35-CR Reducing Cross			No. 30-CR 45° Reducing Lateral											
Nominal inches	DN	C to EOR inches mm	C to EOB inches mm	Approx. Weight (Each) lb kg	H inches mm	J inches mm	Approx. Weight (Each) lb kg	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg									
4	100	x	3	6.50	6.50	26.4	6.50	6.50	22.0	12.00	3.00	45.0							
				80	165	165							12.0	165	10.0	305	76	20.4	
6	150	x	3	8.00	8.00	30.0	8.00	8.00	46.0	14.50	3.50	74.0							
				80	203	203							13.6	203	20.9	368	89	33.6	
			4	8.00	8.00	34.0	8.00	8.00	38.0	14.50	3.50	80.0							
				100	203	203							15.4	203	17.2	368	89	36.3	
8	200	x	3	9.00	9.00	*	—	—	—	—	—	—							
				80	229	229							—	—	—	—	—	—	
				4	9.00	9.00							78.0	9.00	9.00	76.0	17.50	4.50	125.0
				100	229	229							35.4	229	229	34.5	445	114	56.7
			6	9.00	9.00	80.0	9.00	9.00	59.0	17.50	4.50	140.0							
				150	229	229							36.3	229	229	26.8	445	114	63.5
10	250	x	4	11.00	11.00	120.0	11.00	11.00	120.0	20.50	5.00	204.0							
				100	279	279							54.4	279	279	54.4	521	127	92.5
				6	11.00	11.00							128.0	11.00	11.00	114.0	20.50	5.00	212.0
				150	279	279							58.1	279	279	51.7	521	127	96.2
			8	11.00	11.00	130.0	11.00	11.00	123.0	20.50	5.00	236.0							
				200	279	279							59.0	279	279	56.8	521	127	107.1
12	300	x	4	12.00	12.00	112.0	12.00	12.00	174.0	24.50	5.50	290.0							
				100	305	305							50.8	305	305	78.9	622	140	131.5
				6	12.00	12.00							180.0	12.00	12.00	130.0	24.50	5.50	302.0
				150	305	305							81.7	305	305	59.0	622	140	137.0
				8	12.00	12.00							186.0	12.00	12.00	139.0	24.50	5.50	324.0
			200	305	305	84.4	305	305	63.1	622	140	147.0							
14	350	x	6	14.00	14.00	238.0	14.00	14.00	215.0	27.00	6.00	330.0							
				150	356	356							108.0	356	356	97.5	686	152	149.7
				8	14.00	14.00							241.0	14.00	14.00	221.0	27.00	6.00	346.0
				200	356	356							109.3	356	356	100.3	686	152	156.9
				10	14.00	14.00							258.0	14.00	14.00	235.0	27.00	6.00	540.0
			250	356	356	114.8	356	356	106.6	686	152	244.9							
16	400	x	6	15.00	15.00	288.0	15.00	15.00	266.0	30.00	6.50	570.0							
				150	381	381							130.6	381	381	120.7	762	165	258.6
				8	15.00	15.00							315.0	15.00	15.00	276.0	30.00	6.50	585.0
				200	381	381							142.9	381	381	125.2	762	165	265.4
				10	15.00	15.00							319.0	15.00	15.00	291.0	30.00	6.50	630.0
			250	381	381	144.7	381	381	132.0	762	165	285.8							
			12	15.00	15.00	330.0	15.00	15.00	305.0	30.00	6.50	650.0							
				300	381	381							149.7	381	381	138.4	762	165	294.8
				14	15.00	15.00							341.0	15.00	15.00	280.0	30.00	6.50	692.0
			350	381	381	154.7	381	381	127.0	762	165	313.9							

\* Contact Victaulic for details.

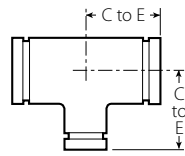
### 4.3 DIMENSIONS (Continued)

#### Reducing Fittings

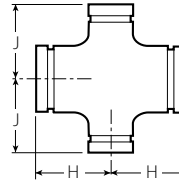
No. 25-C Reducing Tee

No. 35-CR Reducing Cross

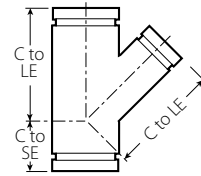
No. 30-CR 45° Reducing Lateral



No. 25-C



No. 35-CR



No. 30-CR

Size		No. 25-C Reducing Tee			No. 35-CR Reducing Cross			No. 30-CR 45° Reducing Lateral			
Nominal inches	DN	C to EOR inches mm	C to EOB inches mm	Approx. Weight (Each) lb kg	H inches mm	J inches mm	Approx. Weight (Each) lb kg	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg	
18 450	x	8 200	13.00 330	15.50 394	326.0 147.9	13.00 330	15.50 394	272.0 123.4	*	*	*
		10 250	13.00 330	15.50 394	332.0 150.6	13.00 330	15.50 394	277.0 125.6	32.00 813	7.00 178	765.0 347.0
		12 300	13.00 330	15.50 394	339.0 153.8	13.00 330	15.50 394	291.0 132.0	32.00 813	7.00 178	800.0 362.9
		14 350	16.50 419	16.50 419	441.0 200.0	16.50 419	16.50 419	361.0 163.7	32.00 813	7.00 178	865.0 392.4
		16 400	16.50 419	16.50 419	453.0 205.5	16.50 419	16.50 419	367.0 166.5	32.00 813	7.00 178	895.0 406.0
		20 500	x	6 150	14.00 356	17.00 432	* —	—	—	—	—
8 200	14.00 356			17.00 432	412.0 186.9	14.00 356	17.00 432	343.0 155.6	—	—	—
10 250	14.00 356			17.00 432	419.0 190.1	14.00 356	17.00 432	343.0 155.6	*	*	*
12 300	14.00 356			17.00 432	426.0 193.2	14.00 356	17.00 432	357.0 161.9	35.00 889	8.00 203	1000.0 453.6
14 350	14.00 356			17.00 432	443.0 201.0	14.00 356	17.00 432	327.0 148.3	35.00 889	8.00 203	1062.0 481.7
16 400	18.00 457			18.00 457	571.0 259.1	18.00 457	18.00 457	458.0 207.7	35.00 889	8.00 203	1105.0 501.2
18 450	18.00 457			18.00 457	584.0 264.9	18.00 457	18.00 457	469.0 212.7	35.00 889	8.00 203	1150.0 521.6
24 600	x			6 150	15.00 381	19.00 483	* —	—	—	—	—
		8 200	15.00 381	19.00 483	* —	*	*	*	*	*	*
		10 250	15.00 381	19.00 483	* —	*	*	*	*	*	*
		12 300	15.00 381	19.00 483	593.0 269.0	15.00 381	19.00 483	475.0 215.5	*	*	*
		14 350	15.00 381	19.00 483	610.0 276.7	15.00 381	19.00 483	450.0 204.1	40.50 1029	9.00 229	1510.0 684.9
		16 400	15.00 381	19.00 483	620.0 281.2	15.00 381	19.00 483	446.0 202.3	40.50 1029	9.00 229	1580.0 716.7
		18 450	22.00 559	22.00 559	918.0 416.4	22.00 559	22.00 559	782.0 354.7	40.50 1029	9.00 229	871.0 395.1
		20 500	22.00 559	22.00 559	937.0 425.0	22.00 559	22.00 559	788.0 357.4	40.50 1029	9.00 229	1705.0 773.4

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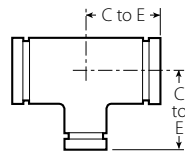
### 4.3 DIMENSIONS (Continued)

#### Reducing Fittings

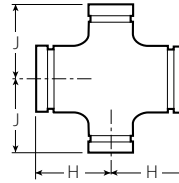
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No. 35-CR Reducing Cross

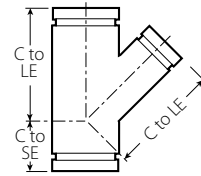
No. 30-CR 45° Reducing Lateral



No. 25-C



No. 35-CR



No. 30-CR

Size		No. 25-C Reducing Tee			No. 35-CR Reducing Cross			No. 30-CR 45° Reducing Lateral		
Nominal inches	DN	C to EOR inches mm	C to EOB inches mm	Approx. Weight (Each) lb kg	H inches mm	J inches mm	Approx. Weight (Each) lb kg	C to LE inches mm	C to SE inches mm	Approx. Weight (Each) lb kg
30 750	6 150	18.00	23.00	*	18.00	23.00	—	—	—	—
		457	584	*	457	584	*	*	*	*
	8 200	18.00	23.00	*	18.00	23.00	*	*	*	*
		457	584	*	457	584	*	*	*	*
	10 250	18.00	23.00	*	18.00	23.00	*	*	*	*
		457	584	*	457	584	*	*	*	*
	12 300	18.00	23.00	1175.0	18.00	23.00	888.0	49.00	10.00	2178.0
		457	584	533.0	457	584	402.8	1245	254	987.9
	14 350	18.00	23.00	1250.0	18.00	23.00	853.0	49.00	10.00	2208.0
		457	584	567.0	457	584	386.9	1245	254	1001.5
16 400	18.00	23.00	1437.0	18.00	23.00	843.0	49.00	10.00	2248.0	
	457	584	651.0	457	584	382.4	1245	254	1019.7	
18 450	18.00	23.00	1450.0	18.00	23.00	839.0	49.00	10.00	2294.0	
	457	584	657.7	457	584	380.6	1245	254	1040.6	
20 500	18.00	23.00	1462.0	18.00	23.00	835.0	49.00	10.00	2339.0	
	457	584	663.2	457	584	378.8	1245	254	1061.0	
24 600	25.00	25.00	1475.0	25.00	25.00	1304.0	49.00	10.00	2451.0	
	635	635	669.1	635	635	591.5	1245	254	1111.8	
36 900	8 200	20.00	26.00	*	20.00	26.00	*	*	*	*
		508	660	*	508	660	*	*	*	*
	10 250	20.00	26.00	*	20.00	26.00	*	*	*	*
		508	660	*	508	660	*	*	*	*
	12 300	20.00	26.00	*	20.00	26.00	1262.0	*	*	*
		508	660	572.4	508	660	572.4	*	*	*
	14 350	20.00	26.00	*	20.00	26.00	1222.0	54.00	15.25	*
		508	660	554.3	508	660	554.3	1372	387	*
	16 400	20.00	26.00	*	20.00	26.00	1213.0	54.00	15.25	3493.0
		508	660	550.2	508	660	550.2	1372	387	1584.4
18 450	20.00	26.00	*	20.00	26.00	1204.0	54.00	15.25	3533.0	
	508	660	546.1	508	660	546.1	1372	387	1602.6	
20 500	20.00	26.00	*	20.00	26.00	1190.0	54.00	15.25	3574.0	
	508	660	539.8	508	660	539.8	1372	387	1621.2	
24 600	20.00	26.00	*	20.00	26.00	1163.0	54.00	15.25	3675.0	
	508	660	527.5	508	660	527.5	1372	387	1667.0	
30 750	28.00	28.00	*	28.00	28.00	1865.0	56.00	15.25	3879.0	
	711	711	846.0	711	711	846.0	1422	387	1759.5	

\* Contact Victaulic for details.