



No. 20 Tee

No. 10 Elbow

Certifications/Listings



When supplied as “hot dip galvanized” the following fittings are UL Classified in accordance with ANSI/NSF 61 and for use on cold +86°F/+30°C potable water service and ANSI/NSF 372: No. 10 90° Elbow, No. 11 45° Elbow, No. 12 22 1/2° Elbow, No. 13 11 1/4° Elbow, No. 100 90° Long Radius Elbow, No. 110 45° Long Radius Elbow, No. 20 Tee, No. 25 Tee with Grooved Branch, No. 30 45° Lateral, No. 60 Cap, No. 50 Concentric Reducers, No. 51 Eccentric Reducers.

Note: The following Victaulic fittings are VdS approved: No.10 90° Elbow, No.11 45° Elbow, No.20 Tee and No.60 Cap.

Note: The following Victaulic fittings are LPCB approved: No.10 90° Elbow, No.11 45° Elbow, No.12 22 1/2° Elbow, No.13 11 1/4° Elbow, No.30 45° Lateral, No.30-R Reducing Lateral, No.100 Long Radius Elbow, No.110 Long Radius Elbow, No.20 Tee, No.35 Cross, No.60 Cap, No.25 Reducing Tee, No.33 True Wye, No.50 Concentric Reducer, No.51 Eccentric Reducer and No.29M Tee with Threaded Branch.

Fittings are provided in various materials including ductile iron, steel or segmentally welded steel depending on styles and size. Fittings are painted orange enamel with a galvanized finish available as an option, contact Victaulic for details.

Victaulic fittings are designed specifically for use in grooved piping systems. Fittings are provided grooved or with shoulders conforming to standard steel pipe outside diameters. When connecting wafer or lug-type butterfly valves directly to Victaulic fittings with 741 or 743 Vic-Flange® adapters, check disc clearance dimensions with I.D. dimension of fitting.

Product Description

Victaulic offers a broad line of fittings in sizes through 60”/1500mm in a variety of straight and reducing styles. Most standard fittings are cast of durable ductile iron to precise tolerances. Victaulic standard fittings pressure ratings conform to the ratings of Victaulic Style 77 couplings.

All fittings are supplied with grooves or shoulders to permit fast installation without field preparation. The grooved design permits flexibility for easy alignment. *These fittings are not intended for use with Victaulic couplings for plain end pipe (refer to [publication 14.04](#) for fittings available for plain end applications).*

Job/Owner

System No.	
Location	

Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Other Fitting Styles



AGS - Advanced Groove System
from 14 – 60"/350 – 1500 mm
[Publication 20.05](#)



Ductile Iron for AWWA size pipe
[Publication 23.05](#)



Stainless Steel
[Publication 17.16](#)



XL fittings for abrasive services
[Publication 07.07](#)



Galvanized
[Publication 07.01](#) for Original Groove Fittings
[Publication 20.05](#) for AGS Fittings



Aluminum
[Publication 21.03](#)



Extra Heavy EndSeal "ES"
[Publication 07.03](#)



Shouldered Ends
[Publication 07.06](#)



Copper
[Publication 22.04](#)



Plain End
[Publication 14.04](#)

Material Specifications

Fitting: (specify choice)

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

Optional: Segmentally welded steel as shown under nipples

Nipples: (specify choice)

¾ – 4"/20 – 100 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type F

5 – 6"/125 – 150 mm: Carbon steel, Schedule 40, conforming to ASTM A-53, Type E or S, Gr. B

8 – 12"/200 – 300 mm: Carbon steel, Schedule 30 or 40, conforming to ASTM A-53, Type E or S, Gr. B

Flanged Adapter Nipples: (specify choice)

Class 125 Flange: Cast iron conforming to ANSI B-16.1

Class 150 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

Class 300 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

Fitting Coating: (specify choice)

Standard: Orange enamel.

Optional: Hot dip galvanized and others. Some fittings supplied electroplated as standard – see product specifications.

Flanged Adapter Nipple Coating: (specify choice)

Standard: None (Unfinished)

Optional: Orange enamel, hot dip galvanized and others.

Flow Data

(Frictional Resistance)

The chart expresses the frictional resistance of various Victaulic fittings as equivalent feet of straight pipe. Fittings not listed can be estimated from the data given, for example, a 22½° elbow is approximately one-half the resistance of a 45° elbow. Values of mid-sizes can be interpolated.

Size		Dimensions					
Nominal Size inches mm	Actual Outside Diameter inches mm	90° Elbows		45° Elbows		Tees	
		No. 10 Std. Radius feet meters	No. 100 1 ½ D Long Radius feet meters	No. 11 Std. Radius feet meters	No. 110 1 ½ D Long Radius feet meters	Branch feet meters	Run feet meters
1	1.315	1.7	—	0.8	—	4.2	1.7
25	33.7	0.5	—	0.2	—	1.3	0.5
2	2.375	3.5	2.5	1.8	1.1	8.5	3.5
50	60.3	1.1	0.8	0.5	0.3	2.6	1.1
76.1 mm	3.000	4.3	—	2.1	—	10.8	4.3
	76.1	1.3	—	0.7	—	3.3	1.3
3	3.500	5.0	3.8	2.6	1.6	13.0	5.0
80	88.9	1.5	1.2	0.8	0.5	4.0	1.5
108.0 mm	4.250	6.4	—	3.2	—	15.3	6.4
	108.0	2.0	—	0.9	—	4.7	2.0
4	4.500	6.8	5.0	3.4	2.1	16.0	6.8
100	114.3	2.1	1.5	1.0	0.6	4.9	2.1
133.0 mm	5.250	8.1	—	4.1	—	20.0	8.1
	133.0	2.5	—	1.2	—	6.2	2.5
139.7 mm	5.500	8.5	—	4.2	—	21.0	8.5
	139.7	2.6	—	1.3	—	6.4	2.6
5	5.563	8.5	—	4.2	—	21.0	8.5
125	141.3	2.6	—	1.3	—	6.4	2.6
159.0 mm	6.250	9.4	—	4.9	—	25.0	9.6
	159.0	2.9	—	1.5	—	7.6	2.9
165.1 mm	6.500	9.6	—	5.0	—	25.0	10.0
	165.1	2.9	—	1.5	—	7.6	3.0
6	6.625	10.0	7.5	5.0	3.0	25.0	10.0
150	168.3	3.0	2.3	1.5	0.9	7.6	3.0
8	8.625	13.0	9.8	6.5	4.0	33.0	13.0
200	219.1	4.0	3.0	2.0	1.2	10.1	4.0
10	10.750	17.0	12.0	8.3	5.0	41.0	17.0
250	273.0	5.2	3.7	2.5	1.5	12.5	5.2
12	12.750	20.0	14.5	10.0	6.0	50.0	20.0
300	323.9	6.1	4.4	3.0	1.8	15.2	6.1
14	14.000	24.5 ¹	15.8	18.5 ¹	11.0	70.0	23.0
350	355.6	7.5	4.8	5.6	3.4	21.3	7.0
16	16.000	28.0 ¹	18.0	21.0 ¹	13.0	80.0	27.0
400	406.4	8.5	5.5	6.4	4.0	24.4	8.2
18	18.000	31.0 ¹	20.0	23.5 ¹	14.0	90.0	30.0
450	457.0	9.5	6.1	7.2	4.3	27.4	9.1
20	20.000	34.0 ¹	22.5	25.5 ¹	16.0	100.0	33.0
800	508.0	10.4	6.9	7.8	4.9	30.5	10.1
24	24.000	42.0 ¹	27.0	29.5 ¹	19.0	120.0	40.0
600	610.0	12.8	8.2	9.0	5.8	36.6	12.2
AGS fittings available up to 60"/1500 mm. Contact Victaulic for details.							
							

¹ Fitting flow data for 14-24"/350-600 mm size No. 10 and No. 11 Elbows is based on fittings for Style 07 and 77 couplings. For flow data on AGS fittings (No. W10 and No. W11 Elbows), refer to [publication 20.05](#).

Dimensions

Elbows

No. 10 90° Elbow

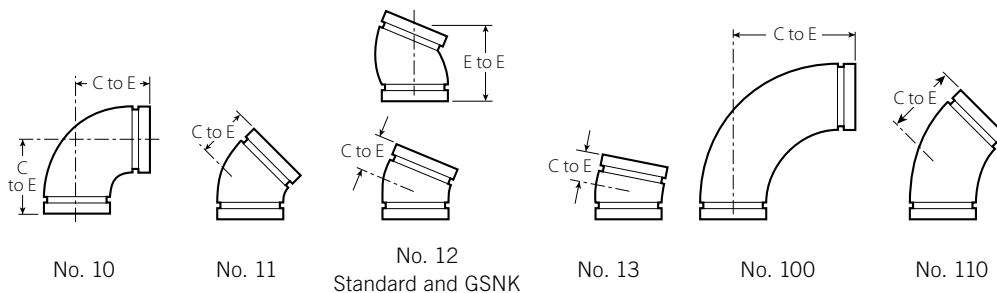
No. 11 45° Elbow

No. 12 22 ½° Elbow

No. 13 11 ¼° Elbow

No. 100 90° Long Radius Elbow

No. 110 45° Long Radius Elbow

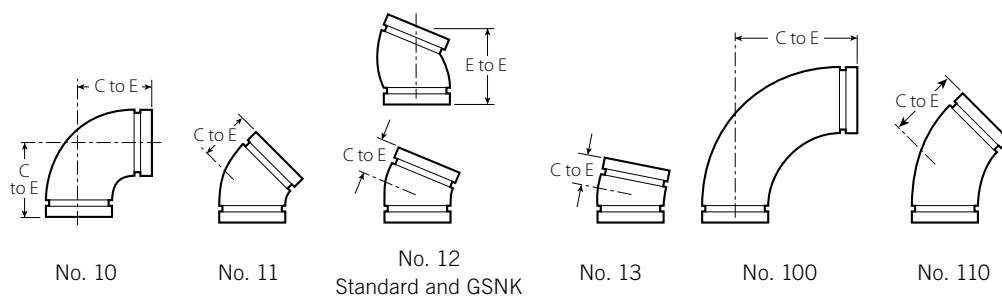


Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100 90° Long Radius Elbow		No. 110 45° Long Radius Elbow	
Nominal Size	Actual Outside Diameter	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
¾ 20	1.050 26.9	2.25 57	0.5 0.2	1.50 38	0.5 0.2	1.63 (sw) 41	—	1.38 (sw) 35	—	2.50 (sw) 64	0.4 0.2	1.88 (sw) 48	0.3 0.1
1 25	1.315 33.7	2.25 57	0.6 0.3	1.75 44	0.6 0.3	3.25 ² 83	0.6 0.3	1.38 (sw) 35	0.3 0.1	2.88 (sw) 73	0.6 0.3	2.25 (sw) 57	0.5 0.2
1 ¼ 32	1.660 42.4	2.75 70	1.0 0.5	1.75 44	0.9 0.4	1.75 44	0.8 0.4	1.38 (sw) 35	0.5 0.2	3.25 (sw) 83	1.1 0.5	2.38 (sw) 60	0.7 0.3
1 ½ 40	1.900 48.3	2.75 70	1.2 0.5	1.75 44	0.9 0.4	1.75 44	0.8 0.4	1.38 (sw) 35	0.5 0.2	3.63 (sw) 92	2.2 1.0	2.50 (sw) 64	1.3 0.6
2 50	2.375 60.3	3.25 83	1.8 0.8	2.00 51	1.3 0.6	1.88 48	1.2 0.5	1.38 35	1.0 0.5	4.38 111	2.5 1.1	2.75 70	1.8 0.8
2 ½ 65	2.875 73.0	3.75 95	3.2 1.5	2.25 57	2.2 1.0	4.00 ² 102	2.3 1.0	1.50 38	1.1 0.5	5.13 130	3.4 1.5	3.00 76	2.8 1.3
76.1 mm	3.000 76.1	3.75 95	3.7 1.7	2.25 57	3.4 1.5	2.25 57	—	1.50 38	—	—	—	—	—
3 80	3.500 88.9	4.25 108	4.5 2.0	2.50 64	3.1 1.4	4.50 ² 114	3.1 1.4	1.50 38	2.1 1.0	5.88 149	6.0 2.7	3.38 86	4.9 2.2
3 ½ 90	4.000 101.6	4.50 114	5.6 2.5	2.75 70	4.3 2.0	2.50 (sw) 64	4.0 1.8	1.75 (sw) 44	2.7 1.2	—	—	—	—
4 100	4.500 114.3	5.00 127	7.1 3.2	3.00 76	5.6 2.5	2.88 73	5.6 2.5	1.75 44	3.6 1.6	7.50 191	12.3 5.6	4.00 102	7.3 3.3
108.0 mm	4.250 108.0	5.00 127	11.0 5.0	3.00 76	5.6 2.5	—	—	—	—	—	—	—	—
4 ½ 120	5.000 127.0	5.25 (sw) 133	10.0 4.5	3.13 (sw) 79	6.0 2.7	3.50 (sw) 89	6.6 3.0	1.88 (sw) 48	4.2 1.9	—	—	—	—
5 125	5.563 141.3	5.50 140	11.7 5.3	3.25 83	8.3 3.8	2.88 (sw) 73	7.8 3.5	2.00 (sw) 51	5.0 2.2	9.25 (sw) 235	18.0 8.2	4.88 (sw) 124	14.8 6.7
133.0 mm	5.250 133.0	5.50 140	11.7 5.3	3.25 83	8.3 3.8	—	—	—	—	—	—	—	—
139.7 mm	5.500 139.7	5.50 140	11.7 5.3	3.25 83	8.3 3.8	2.88 73	—	2.00 51	—	—	—	—	—
6 150	6.625 168.3	6.50 165	17.2 7.8	3.50 89	10.8 4.9	6.25 ² 159	12.2 5.5	2.00 51	7.0 3.2	10.75 273	30.4 13.8	5.50 140	17.4 7.9

2 Gooseneck design, end-to-end dimension fittings in this size, contact your nearest Victaulic sales representative.

3 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

4 Chinese standard sizes



Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100 90° Long Radius Elbow		No. 110 45° Long Radius Elbow	
Nominal Size	Actual Outside Diameter	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each	C to E	Approx. Wgt. Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
159.0 mm	6.250 159.0	6.50 165	18.6 8.4	3.50 89	10.8 4.9	—	—	—	—	—	—	—	—
165.1 mm	6.500 165.1	6.50 165	15.5 7.0	3.50 89	9.8 4.4	3.13 79	11.4 5.2	2.00 51	7.4 3.4	10.75 (sw) 273	29.0 13.2	5.50 (sw) 140	19.0 8.6
8 200	8.625 219.1	7.75 197	29.9 13.6	4.25 108	20.4 9.3	7.75 ² 197	20.0 9.1	2.00 51	10.1 4.6	14.25 362	66.0 30.0	7.25 184	36.0 16.3
10 250	10.750 273.0	9.00 229	63.3 28.7	4.75 121	37.5 17.0	4.38 (sw) 111	30.0 13.6	2.13 54	11.8 5.3	15.00 381	107.0 48.5	6.25 159	57.0 25.9
12 300	12.750 323.9	10.00 254	74.0 33.6	5.25 133	66.7 30.3	4.88 (sw) 124	40.0 18.1	2.25 57	29.3 13.3	18.00 457	156.0 70.8	7.50 191	90.0 40.8
14 ³ 350	14.000 355.6	14.00 356	136.0 61.7	5.75 146	65.0 29.5	5.00 (sw) 127	46.0 20.9	3.50 (sw) 89	32.0 14.5	21.00 (s) 533	164.0 74.4	8.75 222	82.0 37.2
377.0 mm ⁴	14.843 377.0	14.84 377	149.3 67.7	6.13 156	82.0 37.2	—	—	—	—	—	—	—	—
16 ³ 400	16.000 406.5	16.00 406	171.0 77.6	6.63 168	88.0 39.3	5.00 (sw) 127	58.0 26.3	4.00 (sw) 102	42.0 19.1	24.00 (s) 610	210.0 95.3	10.00 (s) 254	100.0 45.4
426.0 mm ⁴	16.773 426.0	16.75 425	198.6 90.1	7.00 178	101.3 45.9	—	—	—	—	—	—	—	—
18 ³ 450	18.000 457.2	18.00 457	228.0 103.4	7.50 190	108.0 50.0	5.50 (sw) 140	65.0 29.5	4.50 (sw) 144	53.2 24.1	27.00 (s) 686	273.0 123.8	11.25 (s) 286	135.0 61.2
480.0 mm ⁴	18.898 480.0	18.88 480	291.0 132.0	7.83 200	141.7 64.3	—	—	—	—	—	—	—	—
20 ³ 500	20.000 508.0	20.00 508	298.0 135.2	8.25 210	138.0 62.6	6.00 (sw) 152	78.6 36.0	5.00 (sw) 127	65.0 29.5	30.00 (s) 762	343.0 155.6	12.50 (s) 318	174.0 78.9
530.0 mm ⁴	20.866 530.0	20.88 530	355.0 161.0	8.63 219	179.0 81.2	—	—	—	—	—	—	—	—
24 ³ 600	24.000 609.6	24.00 610	438.0 198.7	10.00 254	221.0 100.2	7.00 (sw) 178	140.0 63.5	6.00 (sw) 152	60.0 27.2	36.00 (s) 914	516.0 234.1	15.00 (s) 381	251.0 113.9
630.0 mm ⁴	24.803 630.0	24.80 630	545.0 247.2	10.25 261	255.2 115.7	—	—	—	—	—	—	—	—
14 – 60 350 – 1500	For AGS fitting information, see publication 20.05 												

2 Gooseneck design, end-to-end dimension fittings in this size, contact your nearest Victaulic sales representative.

3 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

4 Chinese standard sizes

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

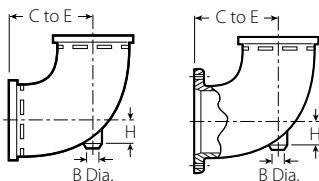
(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Reducing Base Support Elbow

No. R-10G Grv. x Grv.

No. R-10F Grv. x Flange



No. R-10G

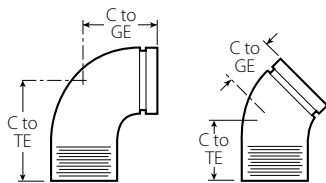
No. R-10F

Size		No. R-10 Reducing Base Support Elbow			Approx. Weight Each	
Nominal Size inches mm		C to E inches mm	H inches mm	B Diameter inches mm	Grv. x Grv. lbs. kg	Grv. x Flange lbs. kg
6 150	x	4 100	9.00 229	1.25 32	19.0 8.6	33.0 15.0
		5 125	9.00 229	1.50 38	23.0 10.4	38.0 17.2
8 200	x	6 150	10.50 267	1.50 38	33.0 15.0	52.0 23.6
		8 200	12.00 305	1.50 38	61.0 27.7	88.0 39.9

Adapter Elbow

No. 18 90° Adapter Elbow

No. 19 45° Adapter Elbow



No. 18

No. 19

Size		No. 18 90° Adapter Elbow ⁵			No. 19 45° Adapter Elbow ⁵		
Nominal Size inches mm	Actual Outside Diameter inches mm	C to GE inches mm	C to TE inches mm	Approx. Weight Each lbs. kg	C to GE inches mm	C to TE inches mm	Approx. Weight Each lbs. kg
¾ 20	1.050 26.9	2.25 57	2.25 57	0.5 0.2	1.50 38	1.50 38	0.5 0.2
1 25	1.315 33.7	2.25 57	2.25 57	0.5 0.2	—	—	—
1 ¼ 32	1.660 42.4	2.75 70	2.75 70	0.9 0.4	—	—	—
1 ½ 40	1.900 48.3	2.75 70	2.75 70	1.1 0.5	1.75 44	1.75 44	0.9 0.4
2 50	2.375 60.3	3.25 83	4.25 108	2.5 1.1	—	—	—
2 ½ 65	2.875 73.0	3.75 95	3.75 95	3.0 1.4	2.25 57	2.25 57	2.3 1.0
3 80	3.500 88.9	4.25 108	6.00 152	5.8 2.6	2.50 64	4.25 108	5.0 2.3
3 ½ 90	4.000 101.6	4.50 114	6.25 159	8.0 3.6	5.25 133	5.25 133	8.8 4.0
6 150	6.625 168.3	6.50 165	6.50 165	17.6 8.0	3.50 89	3.50 89	12.7 5.8

⁵ Available with British Standard Pipe Threads, specify "BSP" clearly on order.

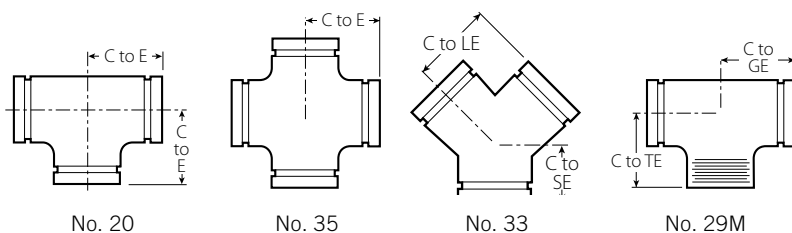
Tees, Crosses and True Wyes

No. 20 Tee

No. 35 Cross

No. 33 True Wye

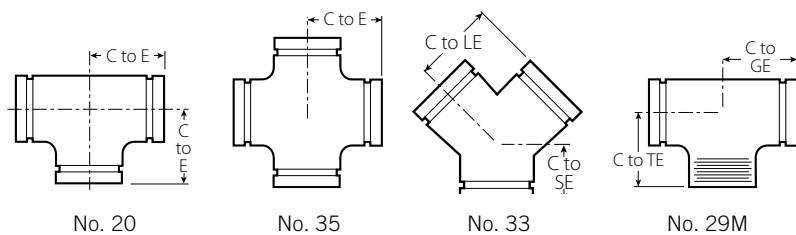
No. 29M Tee with Threaded Branch



Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch		
Nominal Size	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to LE	C to SE	Approx. Weight Each	C to GE	C to TE	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	inches mm	lbs. kg	inches mm	inches mm	lbs. kg
¾ 20	1.050 26.9	2.25 57	0.6 0.3	2.25 57	0.9 0.4	2.25 57	2.00 51	0.7 0.3	2.25 57	2.25 (sw) 57	0.6 0.3
1 25	1.315 33.7	2.25 57	1.0 0.5	2.25 57	1.3 0.6	2.25 57	2.25 57	1.1 0.5	2.25 57	2.25 57	1.0 0.5
1¼ 32	1.660 42.4	2.75 70	1.5 0.7	2.75 70	2.1 1.0	2.75 70	2.50 64	1.5 0.7	2.75 70	2.75 70	1.5 0.7
1½ 40	1.900 48.3	2.75 70	2.0 0.9	2.75 70	2.5 1.1	2.75 70	2.75 70	1.8 0.8	2.75 70	2.75 70	2.0 0.9
2 50	2.375 60.3	3.25 83	3.0 1.4	3.25 83	3.8 1.7	3.25 83	2.75 70	2.5 1.1	3.25 83	4.25 108	3.0 1.4
2½ 65	2.875 73.0	3.75 95	4.3 2.0	3.75 95	6.1 2.8	3.75 95	3.00 76	4.3 2.0	3.75 95	3.75 95	4.3 2.0
76.1 mm	3.000 76.1	3.75 95	5.2 2.4	—	—	—	—	—	3.75 95	3.75 (sw) 95	5.2 2.4
3 80	3.500 88.9	4.25 108	6.8 3.0	4.25 108	10.5 4.8	4.25 108	3.25 83	6.1 2.8	4.25 108	6.00 152	6.8 3.1
3½ 90	4.000 101.6	4.50 (sw) 114	7.9 3.6	4.50 114	11.5 5.2	4.50 114	3.50 89	9.6 4.4	4.50 114	4.50 (sw) 114	7.9 3.6
108.0 mm	4.250 108.0	5.00 127	15.5 7.0	—	—	—	—	—	5.00 127	5.00 (sw) 127	15.5 7.0
4 100	4.500 114.3	5.00 127	11.9 5.4	5.00 127	15.8 7.2	5.00 127	3.75 95	9.8 4.4	5.00 127	7.25 184	11.9 5.4
4½ 120	5.000 127.0	5.25 (sw) 133	15.0 6.8	5.25 133	18.5 8.4	—	—	—	5.25 133	5.25 (sw) 133	15.0 6.8
133.0 mm	5.250 133.0	5.50 140	17.8 8.1	—	—	—	—	—	5.50 140	5.50 (sw) 140	17.8 8.1
139.7 mm	5.500 139.7	5.50 140	17.8 8.1	—	—	—	—	—	5.50 140	5.50 (sw) 140	17.8 8.1
5 125	5.563 141.3	5.50 140	17.8 8.1	5.50 140	20.0 9.1	5.50 140	4.00 102	15.0 6.8	5.50 140	5.50 (sw) 140	17.8 8.1
159.0 mm	6.250 159.0	6.50 165	27.1 12.3	—	—	—	—	—	6.50 165	6.50 (sw) 165	27.1 12.3
165.1 mm	6.500 165.1	6.50 165	22.0 10.0	6.50 165	28.0 12.7	—	—	—	6.50 165	6.50 (sw) 165	22.0 10.0

6 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

7 Chinese standard sizes



Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch		
Nominal Size	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to LE	C to SE	Approx. Weight Each	C to GE	C to TE	Approx. Weight Each
inches	mm	inches	lbs.	inches	lbs.	inches	inches	lbs.	inches	inches	lbs.
mm	mm	mm	kg	mm	kg	mm	mm	kg	mm	mm	kg
6	6.625	6.50	25.7	6.50	28.0	6.50	4.50	22.3	6.50	6.50 (sw)	25.7
150	168.3	165	11.7	165	12.7	165	114	10.1	165	165	11.7
8	8.625	7.75	47.6	7.75	48.0	7.75	6.00	36.0	7.75	7.75	47.6
200	219.1	197	21.6	197	21.8	197	152	16.3	197	197	21.6
10	10.750	9.00	99.0	9.00	121.5	9.00	6.50	69.9	9.00	9.00	99.0
250	273.0	229	44.9	229	55.1	229	155	31.7	229	229	44.9
12	12.750	10.00	133.0	10.00	110.0	10.00	7.00	80.0	10.00	10.00	133.0
300	323.9	254	60.3	254	49.9	254	178	36.3	254	254	60.3
14 ⁶	14.000	11.00 (sw)	145.0	11.00	198.0	11.00	7.50	134.2	—	—	—
350	355.6	279	65.8	279	89.8	279	191	60.8	—	—	—
377.0 mm	377.0	11.50	145.0	—	—	—	—	—	—	—	—
		292	65.8								
16 ⁶	16.000	12.00 (sw)	186.0	12.00	250.0	12.00	8.00	167.0	—	—	—
400	406.4	305	84.4	305	113.4	305	203	75.7	—	—	—
426.0 mm ⁷	426.0	13.00	186.0	—	—	—	—	—	—	—	—
		300	84.4								
18 ⁶	18.000	15.50 (sw)	260.0	15.50	350.0	15.50	8.50	234.0	—	—	—
450	457.0	394	117.9	394	158.8	394	216	106.1	—	—	—
480.0 mm ⁷	480.0	14.63	256.0	—	—	—	—	—	—	—	—
		372	116.1								
20 ⁶	20.000	17.25 (sw)	336.0	17.25	452.0	17.25	9.00	281.0	—	—	—
500	508.0	438	152.4	438	205.0	438	229	127.5	—	—	—
530.0 mm ⁷	530.0	15.38 (sw)	339.0	—	—	—	—	—	—	—	—
		391	153.8								
24 ⁶	24.000	20.00 (sw)	592.0	20.00	795.0	20.00	10.00	523.0	—	—	—
600	610.0	508	268.5	508	360.6	508	254	237.2	—	—	—
630.0 mm ⁷	630.0	17.38 (sw)	473.0	—	—	—	—	—	—	—	—
		441	214.5								
14 – 60	For AGS fitting information, see publication 20.05 										
350 – 1500											

⁶ For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

⁷ Chinese standard sizes

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

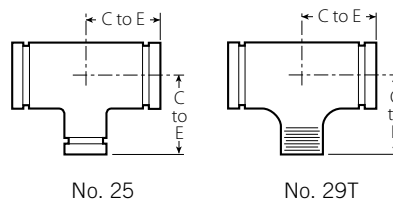
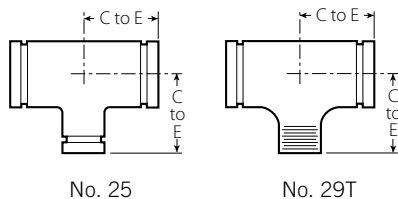
(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Reducing Tee

No. 25 Grooved Branch

No. 29T Threaded Branch



Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size inches mm	C to E inches mm	C to E inches mm	lbs. kg
1 25	1 25	3/4 20	2.25 (sw) 57
1 1/4 32	1 1/4 32	1 25	2.75 (sw) 70
1 1/2 40	1 1/2 40	3/4 20	2.75 (sw) 70
		1 25	2.75 (sw) 70
		1 1/4 32	2.75 (sw) 70
2 50	2 50	3/4 20	3.25 83
		1 25	3.25 83
		1 1/4 32	3.25 (sw) 83
		1 1/2 40	3.25 83
2 1/2 65	2 1/2 65	3/4 20	3.75 (sw) 95
		1 25	3.75 95
		1 1/4 32	3.75 95
		1 1/2 40	3.75 95
		2 50	3.75 (sw) 95
3 80	3 80	3/4 20	4.25 (sw) 108
		1 25	4.25 108
		1 1/4 32	4.25 108
		1 1/2 40	4.25 (sw) 108
		2 50	4.25 (sw) 108
		2 1/2 65	4.25 (sw) 108

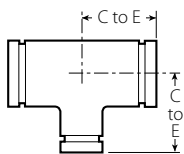
8 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

9 Cast fitting available. Contact Victaulic for details.

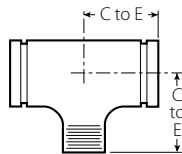
Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size inches mm	C to E inches mm	C to E inches mm	lbs. kg
4 100	4 100	3/4 20	5.00 (sw) 127
		1 25	5.00 127
		1 1/4 32	5.00 (sw) 127
		1 1/2 40	5.00 127
		2 50	5.00 127
		2 1/2 65	5.00 127
		3 80	5.00 127
5 125	5 125	1 25	5.50 (sw) 140
		1 1/2 40	5.50 (sw) 140
		2 50	5.50 (sw) 140
		2 1/2 65	5.50 140
		3 80	5.50 (sw) 140
		4 100	5.50 (sw) 140
6 150	6 150	1 25	6.50 (sw) 165
		1 1/2 40	6.50 (sw) 165
		2 50	6.50 165
		2 1/2 65	6.50 165
		3 80	6.50 165
		4 100	6.50 165
		5 125	6.50 165
6 1/2 165.1	6 1/2 165.1	3 80	6.50 165
		4 100	6.50 (sw) 165

8 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

9 Cast fitting available. Contact Victaulic for details.



No. 25

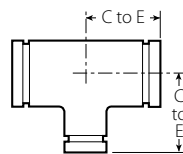


No. 29T

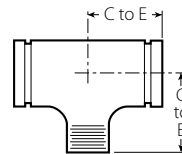
Size			No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size inches mm			C to E inches mm	C to E inches mm	lbs. kg
8 200	x	8 200	1 1/2 40	7.75 (sw) 197	33.0 15.0
			2 50	7.75 (sw) 197	33.5 15.2
			2 1/2 65	7.75 (sw) 197	39.0 17.7
			3 80	7.75 (sw) 197	33.6 15.2
			4 100	7.75 197	41.8 19.0
			5 125	7.75 (sw) 197	34.0 15.4
			6 150	7.75 197	42.3 19.2
			165.1	7.75 (sw) 197	48.0 21.8
			10 250	9.00 229	62.0 28.1
			2 50	9.00 (sw) 229	62.0 28.1
10 250	x	10 250	2 1/2 65	9.00 (sw) 229	62.4 28.3
			3 80	9.00 (sw) 229	60.0 27.2
			4 100	9.00 (sw) 229	61.0 27.7
			5 125	9.00 (sw) 229	52.0 23.6
			6 150	9.00 (sw) 229	59.0 26.8
			8 200	9.00 (sw) 229	64.7 29.3
			1 25	10.00 (sw) 254	77.0 34.9
			2 50	10.00 (sw) 254	80.0 36.3
			2 1/2 65	10.00 (sw) 254	78.0 35.4
			3 80	10.00 (sw) 254	82.0 37.2
12 300	x	12 300	4 100	10.00 (sw) 254	80.0 36.3
			5 125	10.00 (sw) 254	75.0 34.0
			6 150	10.00 (sw) 254	75.0 34.0
			8 200	10.00 (sw) 254	80.0 36.3
			10 250	10.00 (sw) 254	84.0 38.1

8 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

9 Cast fitting available. Contact Victaulic for details.



No. 25

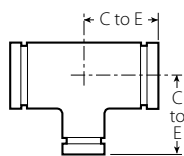


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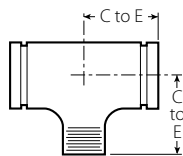
Size			No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size inches mm			C to E inches mm	C to E inches mm	lbs. kg
14 ⁸ 350	x	14 350	4 100	11.00 (sw) 279	102.0 46.3
			6 150	11.00 (sw) 279	108.2 49.1
			8 200	11.00 279	112.0 50.8
			10 250	11.00 279	120.0 54.4
			12 300	11.00 279	129.1 58.6
			16 ⁸ 400	12.00 305	130.0 59.0
			6 150	12.00 (sw) 305	133.5 60.6
			8 200	12.00 305	145.0 65.8
			10 250	12.00 305	149.5 67.8
			12 300	12.00 305	154.0 69.9
16 ⁸ 400	x	16 400	14 350	12.00 (sw) 305	167.0 75.8
			4 100	15.50 (sw) 394	194.0 88.0
			6 150	15.50 (sw) 394	200.0 90.7
			8 200	15.50 (sw) 394	202.0 91.6
			10 250	15.50 394	212.0 96.2
			12 300	15.50 394	222.6 101.0
			14 350	15.50 394	230.1 104.4
			16 400	15.50 394	247.6 112.3
			20 ⁸ 500	17.25 438	240.0 108.9
			6 150	17.25 438	244.0 110.7
18 ⁸ 450	x	18 450	8 200	17.25 438	256.0 116.1
			10 250	17.25 438	264.0 119.8
			12 300	17.25 438	275.0 124.7
			14 350	17.25 438	288.6 130.9
			16 400	17.25 438	297.0 134.7

8 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

9 Cast fitting available. Contact Victaulic for details.



No. 25



No. 29T

Size				No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each lbs. kg		
Nominal Size inches mm				C to E inches mm	C to E inches mm			
24 ⁸ 600	x	24 600	x	8 200	20.00 508	20.00 508	340.0 154.2	
				10 250	20.00 508	20.00 508	343.9 156.0	
				12 300	20.00 508	20.00 508	352.8 160.0	
				14 ⁹ 350	20.00 508	—	360.0 163.3	
	x	16 400	20.00 508	—	378.0 171.5			
		18 ⁹ 450	20.00 508	—	380.0 172.4			
		20 500	20.00 508	—	373.0 169.2			
14 – 60 350 – 1500				For AGS fitting information, see publication 20.05				
								

8 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

9 Cast fitting available. Contact Victaulic for details.

General Notes

No. 29T Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

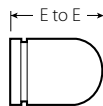
Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Bull Plug

No. 61



No. 61

Size		No. 61 Bull Plug (s)	
Nominal Size inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lbs. kg
2	2.375	4.00	2.5
50	60.3	102	1.1
2 ½	2.875	5.00	3.0
65	73.0	127	1.4
3	3.500	6.00	4.5
80	88.9	152	2.0
4	4.500	7.00	7.5
100	114.3	178	3.4
5	5.563	8.00	12.0
125	141.3	203	5.4
6	6.625	10.00	17.0
150	168.5	254	7.7

General Notes

Steel dish caps available through 24"/600 mm, contact Victaulic.

No. 61 Bull Plugs should be used in vacuum service with Style 72 or 750 couplings

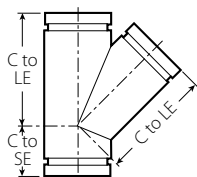
Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

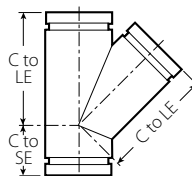
(sw) = Carbon Steel Segmentally Welded

45° Lateral

No. 30



No. 30



No. 30

Size		No. 30 45° Lateral		
Nominal Size inches mm	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight Each lbs. kg
¾	1.050	4.50 (sw)	2.00 (sw)	1.0
20	26.9	114	51	0.5
1	1.315	5.00 (sw)	2.25 (sw)	1.7
25	33.7	127	57	0.8
1¼	1.660	5.75	2.50	2.5 (d)
32	42.4	146	64	1.1
1½	1.900	6.25 (sw)	2.75 (sw)	3.5
40	48.3	159	70	1.6
2	2.375	7.00 (sw)	2.75 (sw)	5.0
50	60.3	178	70	2.3
2½	2.875	7.75 (sw)	3.00 (sw)	9.0
65	73.0	197	76	4.1
76.1 mm	3.000	8.50 (sw)	3.25 (sw)	11.0
	76.1	216	83	5.0
3	3.500	8.50	3.25	11.7 (d)
80	88.9	216	83	5.4
3½	4.000	10.00 (sw)	3.50 (sw)	17.8
90	101.6	254	89	8.1
4	4.500	10.50	3.75	22.2 (d)
100	114.3	267	95	10.1
5	5.563	12.50 (sw)	4.00 (sw)	21.8
120	141.3	318	102	9.9

10 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Size		No. 30 45° Lateral		
Nominal Size inches mm	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	Approx. Weight Each lbs. kg
165.1 mm	6.500 165.1	14.00 (sw) 356	4.50 (sw) 114	43.6 19.8
6	6.625 168.3	14.00 (sw) 356	4.50 (sw) 114	43.6 49.8
8	8.625 219.1	18.00 (sw) 457	6.00 (sw) 152	72.0 32.7
10	10.750 273.0	20.50 (sw) 521	6.50 (sw) 165	105.0 47.6
12	12.750 323.9	23.00 (sw) 584	7.00 (sw) 178	165.0 74.8
14 ¹⁰	14.000 355.6	26.50 (sw) 673	7.50 (sw) 191	276.0 125.2
16 ¹⁰	16.000 406.4	29.00 (sw) 737	8.00 (sw) 203	344.2 156.1
18 ¹⁰	18.000 457.0	32.00 (sw) 813	8.50 (sw) 216	429.0 194.6
20 ¹⁰	20.000 508.0	35.00 (sw) 889	9.00 (sw) 229	500.0 226.8
24 ¹⁰	24.000 610.0	40.00 (sw) 1016	10.00 (sw) 254	715.0 324.3
14 – 60 350 – 1500	For AGS fitting information, see publication 20.05 			

10 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

General Notes

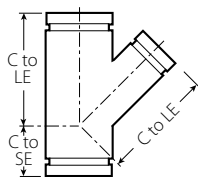
Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

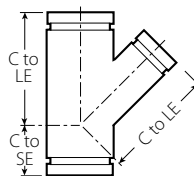
(sw) = Carbon Steel Segmentally Welded

45° Reducing Lateral

No. 30-R



No. 30-R



No. 30-R

Size			No 30-R 45° Reducing Lateral		
Nominal Size inches mm			C to LE inches mm	C to SE inches mm	Approx. Weight Each lbs. kg
3 80	x	3 80	2 50	8.50 216	9.8 4.4
			2½ 65	8.50 216	9.8 4.4
			4 100	10.50 267	3.75 95
			4 100	10.50 267	3.75 95
5 125	x	5 125	2 50	12.50 318	4.00 10.9
			3 80	12.50 318	4.00 10.9
			4 100	12.50 318	4.00 10.9
			6 150	14.00 356	4.50 16.8
8 200	x	8 200	4 100	18.00 457	6.00 28.1
			5 125	18.00 457	6.00 28.1
			6 150	18.00 457	6.00 28.1
			10 250	20.50 521	6.50 34.2
12 300	x	12 300	5 125	23.00 584	7.00 55.3
			6 150	23.00 584	7.00 55.3
			8 200	23.00 584	7.00 55.3
			10 250	23.00 584	7.00 55.3

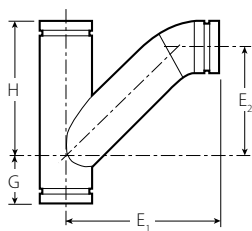
Size					No 30-R 45° Reducing Lateral		
Nominal Size inches mm					C to LE inches mm	C to SE inches mm	Approx. Weight Each lbs. kg
14 ¹¹ 350	x	14 350	x	4 100	26.50 673	7.50 191	172.0 78.0
				6 150	26.50 673	7.50 191	187.0 84.8
				8 200	26.50 673	7.50 191	205.8 93.4
				10 250	26.20 673	7.50 191	235.0 106.6
				12 300	26.50 673	7.50 191	250.0 113.4
				16 ¹¹ 400	x	16 400	x
8 200	29.00 737	8.00 203	252.5 114.5				
10 250	29.00 737	8.00 203	265.0 120.2				
12 300	29.00 737	8.00 203	295.0 133.8				
14 350	29.00 737	8.00 203	305.0 138.3				
18 ¹¹ 450	x	18 450	x				
				8 200	32.00 813	8.50 216	275.0 124.7
				12 300	32.00 813	8.50 216	347.0 157.4
				14 350	32.00 813	8.50 216	350.0 158.8
				16 400	32.00 813	8.50 216	362.0 164.2
				20 ¹¹ 500	x	20 500	x
14 350	35.00 889	9.00 229	420.0 190.5				
16 400	35.00 899	10.00 229	425.0 192.8				
24 ¹¹ 600	x	24 600	x				
				20 600	40.00 1016	10.00 254	570.0 258.6
14 – 60 350 – 1500					For AGS fitting information, see publication 20.05 		

11 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

11 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Tee Wye

No. 32



No. 32

Size				No. 32 Tee Wye (sw)					
Nominal Size				G	H	E ₁	E ₂	Approx. Weight Each	
inches mm				inches mm	inches mm	inches mm	inches mm	lbs. kg	
2	x	2	x	2	2.75	7.00	9.00	4.63	6.4
50		50		50	70	178	229	118	2.9
2½	x	2½	x	2½	3.00	7.75	10.50	5.75	11.5
65		65		65	76	197	267	146	5.2
3	x	3	x	3	3.25	8.50	11.50	6.50	14.3
80		80		80	83	216	292	165	6.5
3½	x	3½	x	3½	3.25	10.00	13.00	7.75	22.9
90		90		90	89	254	330	197	10.4
4	x	4	x	4	3.75	10.50	13.63	8.13	26.0
100		100		100	95	267	346	207	11.8
5	x	5	x	5	4.00	12.50	16.13	10.00	48.0
125		125		125	102	318	410	254	21.8
6	x	6	x	6	4.50	14.00	18.25	11.50	60.5
150		150		150	114	356	464	292	27.4
8	x	8	x	8	6.00	18.00	23.25	15.25	127.1
200		200		200	152	457	591	387	57.7
10	x	10	x	10	6.50	20.50	27.25	18.00	190.0
250		250		250	165	521	692	457	86.2
12	x	12	x	12	7.00	23.00	31.00	20.50	240.0
300		300		300	178	584	787	521	108.9

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

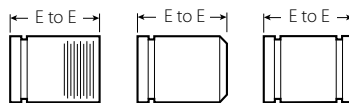
(sw) = Carbon Steel Segmentally Welded

Adapter Nipple

No. 40 12 Grv. x Thd.

No. 42 Grv. x Bev.

No. 43 Grv. x Grv.



No. 40

No. 42

No. 43

Size		No. 40, 42, 43 Adapter Nipple (s)	
Nominal Size	Actual Outside Diameter	E to E	Approx. Weight Each
inches mm	inches mm	inches mm	inches mm
¾	1.050	3.00	0.3
20	26.9	76	0.1
1	1.315	3.00	0.4
25	33.7	76	0.2
1¼	1.660	4.00	0.8
32	42.4	102	0.4
1½	1.900	4.00	0.9
40	48.3	102	0.4
2	2.375	4.00	1.2
50	60.3	102	0.5
2½	2.875	4.00	1.9
65	73.0	102	0.9
3	3.500	4.00	2.5
80	88.9	102	1.1
3½	4.000	4.00	2.1
90	101.6	102	0.9
4	4.500	6.00	5.5
100	114.3	152	2.5
5	5.563	6.00	7.4
125	141.3	152	3.4
6	6.625	6.00	9.5
150	168.3	152	4.3
8	8.625	6.00	14.2
200	219.1	152	6.4
10	10.750	8.00	27.0
250	273.0	203	12.2
12	12.750	8.00	33.0
300	323.9	203	15.0

12 Available with British Standard Pipe Threads, specify "BSP" clearly on order.

General Notes

For pump package nipples with 1 ½ "/40 mm hole cut to receive Style 923 Vic-Let or Style 924 Vic-O-Well® request special No. 40, 42 or 43 nipples and specify No. 40-H, 42-H or 43-H on order. NOTE: 4 – 12"/100 – 300 mm diameter — 8"/200 mm minimum length required.

For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Cap**No. 60**

No. 60

Size		No. 60 Cap	
Nominal Size	Actual Outside Diameter	"T" Thickness	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg
¾	1.050	0.88	0.2
20	26.9	22	0.1
1	1.315	0.88	0.3
25	33.7	22	0.1
1¼	1.660	0.88	0.3
32	42.4	22	0.1
1½	1.900	0.88	0.5
40	48.3	22	0.2
2	2.375	0.88	0.6
50	60.3	22	0.3
2½	2.875	0.88	1.0
65	73.0	22	0.5
76.1 mm	3.000	0.88	1.2
	76.1	22	0.5
3	3.500	0.88	1.2
80	88.9	22	0.5
3½	4.000	0.88	2.5
90	101.6	22	1.1
108.0 mm	4.250	1.00	2.3
	108.0	25	1.0
4	4.500	1.00	2.5
100	114.3	25	1.1
133.0 mm	5.250	1.00	4.5
	133.0	25	2.0
139.7 mm	5.500	1.00	4.5
	139.7	25	2.0
5	5.563	1.00	4.6
125	141.3	25	2.1

13 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.



No. 60

Size		No. 60 Cap	
Nominal Size	Actual Outside Diameter	"T" Thickness	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg
159.0 mm	6.250 159.0	1.00 25	6.8 3.1
165.1 mm	6.500 165.1	1.00 25	7.3 3.3
6 150	6.625 168.3	1.00 25	6.1 2.8
8 200	8.625 219.1	1.19 30	13.1 5.9
10 250	10.750 273.0	1.25 32	21.0 9.5
12 300	12.750 323.9	1.25 32	35.6 16.2
14 ¹³ 350	14.000 355.6	9.50 (s) 241	+
16 ¹³ 400	16.000 406.4	10.00 (s) 254	+
18 ¹³ 450	18.000 457.0	11.00 (s) 279	+
20 ¹³ 500	20.000 508.0	12.00 (s) 305	+
24 ¹³ 600	24.000 610.0	13.50 (s) 343	+
14 – 60 350 – 1500	For AGS fitting information, see publication 20.05 		

13 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

General Notes

No. 60 cap is not suitable for use in vacuum service with Style 72 or 750 couplings. No. 61 bull plugs should be used.

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

+ Contact Victaulic for details.

Flanged Adapter Nipple

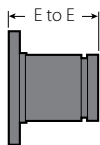
No. 41 ANSI Class 125 (Cast Iron)

No. 45F ANSI Class 150 Flat Face

No. 45R ANSI Class 150 Raised Face

No. 46F ANSI Class 300 Flat Face

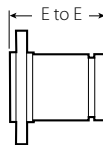
No. 46R ANSI Class 300 Raised Face



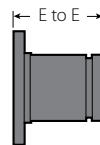
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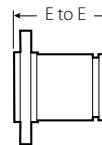
No. 45F



No. 45R



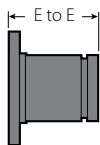
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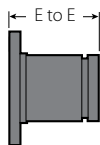
No. 46R

Size		No. 41 ANSI 125 Flange Adapter Nipple		No. 45F and No. 45R ANSI 150 Flanged Adapter Nipple (s)		No. 46F and No. 46R ANSI 300 Flanged Adapter Nipple (s)	
Nominal Size	Actual Outside Diameter	E to E	Approx. Weight Each	E to E	Approx. Weight Each	E to E	Approx. Weight Each
inches mm	inches mm	inches mm	lbs. kg	inches mm	lbs. kg	inches mm	lbs. kg
¾ 20	1.050 26.9	3.00 76	—	3.00 76	2.3 1.0	3.00 76	3.3 1.5
1 25	1.315 33.7	3.00 76	2.5 1.1	3.00 76	2.7 1.2	3.00 76	3.9 1.8
1¼ 32	1.660 42.4	4.00 102	3.0 1.4	4.00 102	3.3 1.5	4.00 102	4.8 2.2
1½ 40	1.900 48.3	4.00 102	3.5 1.6	4.00 102	3.9 1.8	4.00 102	6.9 3.1
2 50	2.375 60.3	4.00 102	5.5 2.5	4.00 102	6.0 2.7	4.00 102	8.2 3.7
2½ 65	2.875 73.0	4.00 102	8.0 3.6	4.00 102	9.9 4.5	4.00 102	11.9 5.4
3 80	3.500 88.9	4.00 102	9.5 4.3	4.00 102	11.7 5.3	4.00 102	16.5 7.5
3½ 90	4.000 101.6	4.00 102	12.0 5.4	4.00 102	15.1 6.8	4.00 102	20.1 9.1
4 100	4.500 114.3	6.00 152	16.7 7.6	6.00 152	18.5 8.4	6.00 152	27.4 12.4
5 125	5.563 141.3	6.00 152	21.5 9.8	6.00 152	21.3 9.7	6.00 152	35.3 16.0
6 150	6.625 168.3	6.00 152	26.5 12.0	6.00 152	27.5 12.5	6.00 152	47.5 21.5
8 200	8.625 219.1	6.00 152	39.0 17.7	6.00 152	41.3 18.8	6.00 152	70.3 31.9
10 250	10.750 273.0	8.00 203	57.0 25.9	8.00 203	59.3 27.1	8.00 203	100.8 45.7
12 300	12.750 323.9	8.00 203	41.0 18.6	8.00 203	40.0 40.0	8.00 203	146.2 66.3
14 ¹⁴ 350	14.000 355.6	8.00 203	—	8.00 203	+	8.00 203	+
16 ¹⁴ 400	16.000 406.4	8.00 203	—	8.00 203	+	8.00 203	+
18 ¹⁴ 450	18.000 457.0	8.00 203	—	8.00 203	+	8.00 203	+

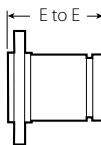
14 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.



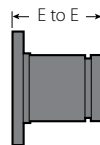
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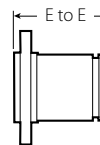
No. 45F



No. 45R



No. 46F



No. 46R

Size		No. 41 ANSI 125 Flange Adapter Nipple		No. 45F and No. 45R ANSI 150 Flanged Adapter Nipple (s)		No. 46F and No. 46R ANSI 300 Flanged Adapter Nipple (s)	
Nominal Size inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lbs. kg	E to E inches mm	Approx. Weight Each lbs. kg	E to E inches mm	Approx. Weight Each lbs. kg
20 ¹⁴ 500	20.000 508.0	8.00 203	—	8.00 203	+	8.00 203	+
24 ¹⁴ 600	24.000 610.0	8.00 203	—	8.00 203	+	8.00 203	+
14 – 60 350 – 1500	For AGS fitting information, see publication 20.05 						

14 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

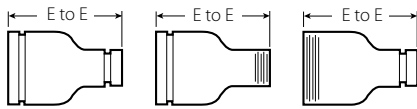
+ Contact Victaulic for details.

Swaged Nipple

No. 53 Grv. x Grv.

No. 54 Grv. x Thd.

No. 55 Thd. x Grv.

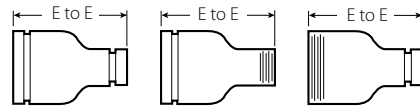


No. 53

No. 54

No. 55

Size		No. 53, 54, and 55 Swaged Nipples (s)		
Nominal Sizes inches mm		E to E inches mm	Approx. Weight Each lbs. kg	
2 50	x	1 25	6.50 165	2.0 0.9
		1¼ 32	6.50 165	2.0 0.9
		1½ 40	6.50 165	2.0 0.9
		2 50	7.00 178	3.0 1.4
2½ 65	x	1 25	7.00 178	3.0 1.4
		1¼ 32	7.00 178	3.0 1.4
		1½ 40	7.00 178	3.0 1.4
		2 50	7.00 178	3.0 1.4
3 80	x	1 25	8.00 203	4.5 2.0
		1¼ 32	8.00 203	4.5 2.0
		1½ 40	8.00 203	4.5 2.0
		2 50	8.00 203	4.5 2.0
		2½ 65	8.00 203	4.5 2.0
		3 80	8.00 203	6.8 3.1
4 100	x	1 25	9.00 229	7.5 3.4
		1¼ 32	9.00 229	7.5 3.4
		1½ 40	9.00 229	7.5 3.4
		2 50	9.00 229	7.5 3.4
		2½ 65	9.00 229	7.5 3.4
		3 80	9.00 229	7.5 3.4
		3½ 90	9.00 229	7.5 3.4
		4 100	9.00 229	7.5 3.4
		4½ 110	9.00 229	7.5 3.4
		5 125	9.00 229	7.5 3.4



No. 53

No. 54

No. 55

Size		No. 53, 54, and 55 Swaged Nipples (s)	
Nominal Sizes inches mm		E to E inches mm	Approx. Weight Each lbs. kg
5 125	x	2 50	11.00 279
		3 80	11.00 279
		4 100	11.00 279
		5 125	11.00 279
6 150	x	1 25	12.00 305
		1¼ 32	12.00 305
		1½ 40	12.00 305
		2 50	12.00 305
		2½ 65	12.00 305
		3 80	12.00 305
		3½ 90	12.00 305
		4 100	12.00 305
		4½ 120	12.00 305
		5 125	12.00 305
		6 150	12.00 305
		7 175	12.00 305
		8 200	12.00 305
		9 225	12.00 305
8 200	x	6 150	20.0 9.1
		8 200	20.0 9.1

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

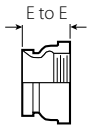
(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

+ Contact Victaulic for details.

Female Threaded Adapter

No. 80



No. 80

Size		No. 80 Female Threaded Adapter	
Nominal Size inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lbs. kg
¾ 20	1.050 26.9	2.00 51	1.0 0.5
1 25	1.315 33.7	2.06 52	1.0 0.5
1¼ 32	1.660 42.4	2.31 (sw) 59	1.5 0.7
1½ 40	1.900 48.3	2.31 (sw) 59	1.5 0.7
2 50	2.375 60.3	2.50 64	1.4 0.6
2½ 65	2.875 73.0	2.75 70	1.5 0.7
3 80	3.500 88.9	2.75 70	2.9 1.3
4 100	4.500 114.3	3.25 83	4.5 2.0

General Notes

Available with British Standard Pipe Threads, specify "BSP" clearly on order.

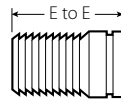
Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Hose Nipple

No. 48



No. 48

Size		No. 48 Hose Nipple (s)	
Nominal Size inches mm	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lbs. kg
¾ 20	1.050 26.9	3.12 79	0.3 0.1
1 25	1.315 33.7	3.38 86	0.4 0.2
1¼ 32	1.660 42.4	3.88 98	0.6 0.3
1½ 40	1.900 48.3	3.88 98	0.8 0.4
2 50	2.375 60.3	4.50 114	1.1 0.5
2½ 65	2.875 73.0	5.38 137	2.0 0.9
3 80	3.500 88.9	5.75 146	3.2 1.5
4 100	4.500 114.3	7.00 178	4.9 2.2
5 125	5.563 141.3	8.75 222	8.0 3.6
6 150	6.625 168.3	10.13 257	14.3 6.5
8 200	8.625 219.1	11.88 302	24.7 11.2
10 250	10.750 273.0	12.50 318	40.1 18.2
12 300	12.750 323.9	14.50 368	62.0 28.1

General Notes

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

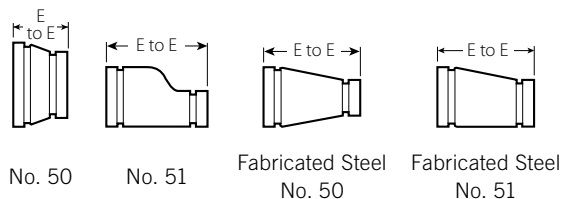
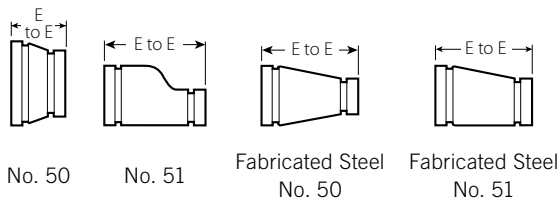
(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

Concentric/Eccentric Reducer

No. 50 Concentric

No. 51 Eccentric



Size		No. 50 Concentric Reducer			No. 51 Eccentric Reducer	
Nominal Size		E to E	Approx. Weight Each		E to E	Approx. Weight Each
inches	mm	inches	lbs.		inches	lbs.
mm		mm	kg		mm	kg
1 1/4	x 3/4	+	1.9	—	—	—
32	20		0.9			
	1	+	1.9	—	—	—
	25		0.9			
1 1/2	x 3/4	+	1.4	—	—	—
40	20		0.6			
	1	2.50	0.8	8.50 (sw)	4.5	
	25	64	0.4	216	2.0	
	1 1/4	2.50	1.0	—	—	—
	32	64	0.5			
2	x 3/4	2.50	0.9	9.00 (sw)	2.0	
50	20	64	0.3	229	0.9	
	1	2.50	0.7	9.00 (sw)	2.3	
	25	64	0.3	229	1.0	
	1 1/4	2.50	1.2	9.00 (sw)	4.6	
	32	64	0.5	229	2.1	
	1 1/2	3.50	1.0	3.50	1.1	
	40	89	0.5	89	0.5	
2 1/2	x 3/4	+	1.3	+	3.3	
65	20		0.6		1.5	
	1	2.50	1.1	9.50	3.5	
	25	64	0.5	241	1.6	
	1 1/4	3.50	3.3	3.50	1.4	
	32	89	1.5	89	0.6	
	1 1/2	2.50	3.6	9.50 (sw)	3.7	
	40	64	1.6	241	1.7	
	2	2.50	3.9	3.50	4.3	
	50	64	1.8	89	2.0	
3	x 3/4	+	1.5	+	4.5	
80	20		0.7		2.0	
	1	2.50	1.3	9.50 (sw)	4.8	
	25	64	0.6	241	2.2	
	1 1/4	2.50	1.4	+	4.8	
	32	64	0.6		2.2	
	1 1/2	2.50	5.1	9.50 (sw)	5.1	
	40	64	2.3	241	2.3	
	2	2.50	1.6	3.50	6.0	
	50	64	0.7	89	2.7	
	2 1/2	2.50	1.8	3.50	7.0	
	65	64	0.8	89	3.2	
	76.1	2.50	2.1	—	—	
		64	1.0			
3 1/2	x 3	2.50	2.0	9.50 (sw)	7.0	
	90	64	0.9	241	3.2	
4	x 1	3.00	3.0	13.00 (sw)	6.5	
100	25	76	1.4	330	2.9	

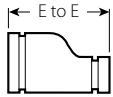
15 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size		E to E	Approx. Weight Each	E to E	Approx. Weight Each
inches		inches	lbs.	inches	lbs.
mm		mm	kg	mm	kg
1 1/4	32	+	4.6	—	—
			2.1		
1 1/2	40	3.00 (sw)	2.6	10.00 (sw)	8.1
		76	1.2	254	3.7
2	50	3.00	2.4	4.00	3.3
		76	1.1	102	1.5
2 1/2	65	3.00	2.7	4.00	3.4
		76	1.2	102	1.5
3	80	3.00	3.2	4.00	3.5
		76	1.4	102	1.6
3 1/2	90	3.00	2.9	10.00 (sw)	8.0
		76	1.3	254	3.6
5	125	11.00 (sw)	9.0	11.00 (sw)	5.2
		279	4.1	279	2.4
2 1/2	65	4.00	4.3	11.00 (sw)	10.8
		102	2.0	279	4.9
3	80	4.00	5.5	11.00 (sw)	11.1
		102	2.5	279	5.0
4	100	3.50	4.3	5.00	12.0
		89	1.9	127	5.4
6	150	4.00	5.0	11.50 (sw)	14.5
		102	2.3	292	6.6
1 1/2	40	+	5.5	+	+
			2.5		
2	50	4.00	6.6	11.50 (sw)	14.5
		102	3.0	292	6.6
2 1/2	65	4.00	6.4	11.50 (sw)	14.2
		102	2.9	292	6.4
3	80	4.00	6.4	5.50	15.0
		102	2.9	140	6.8
4	100	4.00	6.5	5.50	17.0
		102	2.9	140	7.7
5	125	4.00	6.4	5.50	17.0
		102	2.9	140	7.7
8	200	16.00	7.9	12.00 (sw)	26.1
		406	3.6	305	11.8
3	80	5.00	9.3	12.00 (sw)	22.0
		127	4.2	305	10.0
4	100	5.00	10.4	12.00 (sw)	23.0
		127	4.8	305	10.4
5	125	5.00	11.6	12.00 (sw)	23.0
		127	5.2	305	10.4
6	150	5.00	11.9	6.00	24.0
		127	5.4	152	10.9

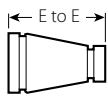
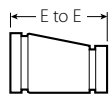
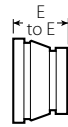
15 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.



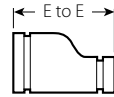
No. 50



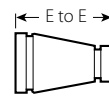
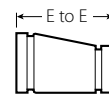
No. 51


Fabricated Steel
No. 50

Fabricated Steel
No. 51


No. 50



No. 51


Fabricated Steel
No. 50

Fabricated Steel
No. 51

Size		No. 50 Concentric Reducer			No. 51 Eccentric Reducer		
Nominal Size		E to E	Approx. Weight Each		E to E	Approx. Weight Each	
inches	mm	inches	lbs.	inches	inches	lbs.	mm
mm	mm	mm	kg	mm	mm	kg	
10 250	x 4	6.00	19.7	13.00 (sw)	32.0		
	100	152	8.9	330	14.5		
	5	+	33.0	+	34.6		
	125		15.0		15.7		
	6	6.00	20.0	13.00 (sw)	36.9		
12 300	x 150	152	9.1	330	16.7		
	8	6.00	22.0	7.00	21.6		
	200	152	10.0	178	9.8		
	4	+	44.0	14.00 (sw)	48.0		
	100		20.0	356	21.8		
14 350	x 6	7.00	24.6	14.00 (sw)	50.0		
	150	178	11.2	356	22.7		
	8	7.00	52.0	14.00 (sw)	53.5		
	200	178	23.6	356	24.3		
	10	7.00	39.0	14.00 (sw)	57.0		
16 400	x 250	178	17.7	356	25.9		
	6	13.00	65.0	13.00	60.0		
	150	330	29.5	330	27.2		
	8	13.00	65.0	13.00	60.0		
	200	330	29.5	330	27.2		
18 450	x 10	13.00	66.0	13.00	65.0		
	250	330	29.9	330	29.5		
	12	13.00	68.0	13.00	66.0		
	300	330	30.8	330	29.9		
	8	14.00	73.0	14.00	73.0		
20 500	x 200	356	33.1	355	33.1		
	10	14.00	73.0	14.00	73.0		
	250	356	33.1	355	33.1		
	12	14.00	73.0	14.00	73.0		
	300	356	33.1	355	33.1		
24 600	x 14	14.00	73.0	14.00	73.0		
	350	356	33.1	355	33.1		
	10	15.00	91.0	15.00	91.0		
	250	381	41.3	381	41.3		
	12	15.00	91.0	15.00	91.0		
28 700	x 300	381	41.3	381	41.3		
	14	15.00	91.0	15.00	91.0		
	350	381	41.3	381	41.3		
	16	15.00	91.0	15.00	91.0		
	400	381	41.3	381	41.3		

15 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

Size		No. 50 Concentric Reducer			No. 51 Eccentric Reducer		
Nominal Size		E to E	Approx. Weight Each		E to E	Approx. Weight Each	
inches		inches	lbs.	inches	inches	lbs.	
mm	mm	mm	kg	mm	mm	kg	
20 500	x 10	20.00	110.0	20.00	177.0		
	250	508	49.9	508	80.3		
	12	20.00	120.0	20.00	120.0		
	300	508	54.4	508	54.4		
	14	20.00	149.0	20.00	149.0		
24 600	x 350	508	67.9	508	67.9		
	16	20.00	120.0	20.00	120.0		
	400	508	54.4	508	54.4		
	18	20.00	136.0	20.00	136.0		
	450	508	61.7	508	61.7		
28 700	x 10	20.00	142.0	20.00	142.0		
	250	508	64.4	508	64.4		
	12	20.00	150.0	20.00	150.0		
	300	508	68.0	508	68.0		
	14	20.00	162.0	20.00	162.0		
32 800	x 350	508	73.5	508	73.5		
	16	20.00	162.0	20.00	162.0		
	400	508	73.5	508	73.5		
	18	20.00	162.0	20.00	162.0		
	450	508	73.5	508	73.5		
36 900	x 20	20.00	151.0	20.00	190.0		
	500	508	68.5	508	86.2		
14 – 60 350 – 1500		For AGS fitting information, see publication 20.05					



15 For 14"/350 mm and larger roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales representative.

General Notes

Available with male threaded small end No. 52.

Cast fitting available for JIS size. Contact Victaulic for details.

Steel eccentric reducers available through 30"/750 mm, contact Victaulic for dimensions.

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

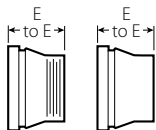
(sw) = Carbon Steel Segmentally Welded

+ Contact Victaulic for details.

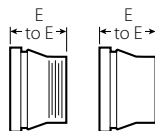
Small Threaded Reducer

No. 52

No. 52F



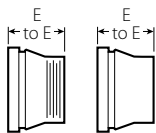
No. 52 No. 52F



No. 52 No. 52F

Size		No. 52 Small Threader Reducer		No. 52F Concentric Reducer with BSPT Female Threaded End	
Nominal Size inches mm		E to E inches mm	Approx. Weight Each lbs. kg	E to E mm	Approx. Weight Each kg
1½ 40	x	1 25	2.50 0.8	—	—
		1¼ 32	2.50 0.9		
		1 25	2.50 0.4		
2 50	x	¾ 20	2.50 0.4	—	—
		1 25	2.50 0.7		
		1¼ 32	2.50 1.2		
		1½ 40	2.50 1.0		
2½ 65	x	1 25	2.50 1.1	—	—
		1¼ 32	2.50 (sw) 0.5		
		1½ 40	2.50 (sw) 0.6		
		2 50	2.50 1.4		
76.1	x	48.3	64	64	0.8
		60	—	64	0.9
3 80	x	¾ 20	+(sw) 0.7	—	—
		1 25	2.50 0.6		
		1¼ 32	2.50 0.7		
		2½ 40	2.50 (sw) 0.7		
		2 50	2.50 1.5		
		2½ 65	2.50 1.1		
		2 50	2.50 0.7		
88.9	x	42.4	64	64	0.8
		48.3	64	64	0.9
		60	—	64	0.9

Size		No. 52 Small Threader Reducer		No. 52F Concentric Reducer with BSPT Female Threaded End	
Nominal Size inches mm		E to E inches mm	Approx. Weight Each lbs. kg	E to E mm	Approx. Weight Each kg
4 100	x	1 25	3.00 1.0	—	—
		1½ 40	3.00 1.2		
		2 50	3.00 1.2		
		2½ 65	3.00 1.2		
		3 80	3.00 1.1		
108.0	x	42.4	76	76	1.3
		48.3	76	76	1.4
		60	—	76	1.4
114.3	x	42.4	76	76	1.3
		48.3	76	76	1.3
		60	76	76	1.4
5 125	x	4 100	+	4.5 2.0	—
133.0	x	60	—	—	114
139.0	x	60	—	—	114
6 150	x	1 25	4.00 1.02	—	—
		2 50	4.00 1.02		
		2½ 65	4.00 1.02		
		3 80	4.00 1.02		
		4 100	+(sw) 2.9		
		5 125	+(sw) 0.9		
		42.4	114	114	2.5
		48.3	114	114	2.5
159.0	x	60	—	114	2.6



No. 52 No 52F

Size		No. 52 Small Threader Reducer		No. 52F Concentric Reducer with BSPT Female Threaded End	
Nominal Size inches mm		E to E inches mm	Approx. Weight Each lbs. kg	E to E mm	Approx. Weight Each kg
165.1 x 42.4		102	2.4	102	2.9
	48.3	102	2.6	102	3.0
	60	—	—	102	3.0
8 x 200	2	16.00	1.5	—	—
	50	406	0.7	—	—
	2 ½	16.00	1.7	—	—
	65	406	0.8	—	—

General Notes

Available with British Standard Pipe Threads, specify “BSP” clearly on order.

Note: All fittings are ductile iron unless otherwise noted with an (sw) or (s).

(s) = Carbon Steel Direct Roll Groove (OGS)

(sw) = Carbon Steel Segmentally Welded

+ Contact Victaulic for details.

Installation

Reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. 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 www.victaulic.com.

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.

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