Grooved End Fittings

SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

Victaulic offers a broad line of fittings in sizes through 24"/600 mm 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 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 Section 14.04 for fittings available for plain end applications).*

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 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.

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 22½° Elbow, No.13 11¼° 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.

NO. 20 TEE

NO. 10 ELBOW

AGS – ADVANCED GROOVE SYSTEM

Advanced Groove System – For 14 – 24"/350 – 600 mm piping systems, Victaulic now offers the Advanced Groove System (AGS). Refer to Section 20.05 for AGS fitting details.

Stainless Steel – Grooved end fittings are available in Schedule 10 Type 316 stainless steel (Schedule 5, 40 and Type 304 available as an option) in various sizes. Fitting center-to-end dimensions will vary depending upon type and schedule. Refer to Section 17.04 and 17.16 for details.

Aluminum – Grooved end fittings are available in aluminum alloy 356 T6, in sizes from 1 – 8"/25 – 200 mm. Refer to Section 21.03 or contact Victaulic for details.

Fabricated Steel – A full range of fabricated segemtnally welded steel or full flow grooved end fittings are available refer to section 07.04.

Fabricated Steel with AGS Vic-Rings – A full range of full flow fabricated fittings with Vic-Rings are also available.

ALTERNATE STYLES

Extra Heavy EndSeal® "ES" Fittings – EndSeal fittings are available in 2 – 12"/50 – 300 mm for use with "ES" grooved pipe and HP-70ES EndSeal couplings. "ES" fittings are painted black for easy identification. EndSeal (and standard) fittings may be easily internally coated (by others) for severe service requirements. Always specify "ES EndSeal fittings" when ordering. See Section 07.03 for information on EndSeal fittings.

Fittings Machined for Rubber or Urethane Lining (MRL) – For severe abrasive services, Victaulic fittings may be rubber or urethane lined (by others). Lining may be inside diameter/end (abrasion resistance) or wrap-around (corrosion and/or abrasion) machined. Refer to Section 25.03 or contact Victaulic for specific details.

Note: Fittings are available with a variety of coatings upon request such as hot dip galvanized, epoxy, glass lined and others.

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

Grooved End Fittings

MATERIAL SPECIFICATIONS

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.

- **Or**: Segmentally welded steel as shown under nipples

Nipples: (adapter, swaged & hose)

- 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: (Nipple – see above)

- 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 Coatings: Orange enamel

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

Flanged Adapter Nipple Coating: None (Unfinished)

- **Optional**: Orange enamel, hot dip galvanized and others.

Grooved End Fittings

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		Dimension – Feet/meters					
		Elbows				Tees	
		90° Elbows		45° Elbows			
Nominal Size In./mm	Actual Outside Dia. In./mm	No. 10 Std. Radius	No. 100 1½ D Long Radius	No. 11 Std. Radius	No. 110 1½ D Long Radius	Branch	Run
1 25	1.315 33.7	1.7 0.5	—	0.8 0.2	—	4.2 1.3	1.7 0.5
2 50	2.375 60.3	3.5 1.1	2.5 0.8	1.8 0.5	1.1 0.3	8.5 2.6	3.5 1.1
76.1 mm	3.000 76.1	4.3 1.3	—	2.1 0.7	—	10.8 3.3	4.3 1.3
3 80	3.500 88.9	5.0 1.5	3.8 1.2	2.6 0.8	1.6 0.5	13.0 4.0	5.0 1.5
108.0 mm	4.250 108.0	6.4 2.0	—	3.2 0.9	—	15.3 4.7	6.4 2.0
4 100	4.500 114.3	6.8 2.1	5.0 1.5	3.4 1.0	2.1 0.6	16.0 4.9	6.8 2.1
133.0 mm	5.250 133.0	8.1 2.5	—	4.1 1.2	—	20.0 6.2	8.1 2.5
139.7 mm	5.500 139.7	8.5 2.6	—	4.2 1.3	—	21.0 6.4	8.5 2.6
5 125	5.563 141.3	8.5 2.6	—	4.2 1.3	—	21.0 6.4	8.5 2.6
159.0 mm	6.250 159.0	9.4 2.9	—	4.9 1.5	—	25.0 7.6	9.6 2.9
165.1 mm	6.500 165.1	9.6 2.9	—	5.0 1.5	—	25.0 7.6	10.0 3.0
6 150	6.625 168.3	10.0 3.0	7.5 2.3	5.0 1.5	3.0 0.9	25.0 7.6	10.0 3.0
8 200	8.625 219.1	13.0 4.0	9.8 3.0	6.5 2.0	4.0 1.2	33.0 10.1	13.0 4.0
10 250	10.750 273.0	17.0 5.2	12.0 3.7	8.3 2.5	5.0 1.5	41.0 12.5	17.0 5.2
12 300	12.750 323.9	20.0 6.1	14.5 4.4	10.0 3.0	6.0 1.8	50.0 15.2	20.0 6.1
14 350	14.000 355.6	24.5 § 7.5	15.8 4.8	18.5 § 5.6	11.0 3.4	70.0 21.3	23.0 7.0
16 400	16.000 406.4	28.0 § 8.5	18.0 5.5	21.0 § 6.4	13.0 4.0	80.0 24.4	27.0 8.2
18 450	18.000 457.0	31.0 § 9.5	20.0 6.1	23.5 § 7.2	14.0 4.3	90.0 27.4	30.0 9.1
20 800	20.000 508.0	34.0 § 10.4	22.5 6.9	25.5 § 7.8	16.0 4.9	100.0 30.5	33.0 10.1
24 600	24.000 610.0	42.0 § 12.8	27.0 8.2	29.5 § 9.0	19.0 5.8	120.0 36.6	40.0 12.2

Contact Victaulic for details.

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 office.

§ 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 submittal 20.05.

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

S= Carbon Steel Direct Roll Groove (OGS)

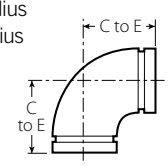
SW= Carbon Steel Segmentally Welded

Grooved End Fittings

DIMENSIONS

Elbows

NO. 10 90° Elbow
NO. 11 45° Elbow
NO. 12 22½° Elbow
NO. 13 11¼° Elbow
NO. 100 90° Long Radius
NO. 110 45° Long Radius



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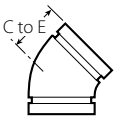
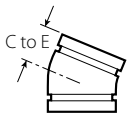


NO. 11

NO.12 GSNK



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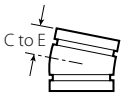

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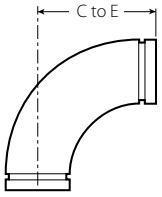

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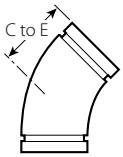
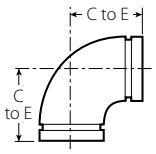


NO. 110

Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100† 90° Long Radius Elbow (S)		No. 110† 45° Long Radius Elbow (S)	
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each 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	—	1.38sw 35	—	2.50 sw 64	0.4 0.2	1.81 sw 46	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 83	0.6 0.3	1.38sw 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	1.38sw 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	1.38sw 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	3.75 @ 95	1.4 0.6	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 @ 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	2.24 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 @ 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	1.75sw 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	1.88sw 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	2.88sw 73	7.8 3.5	2.00sw 51	5.0 2.2	9.25 sw 235	18.2 8.3	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	2.87 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 @ 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
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	10.75sw 273	29.0 13.2	5.50sw 140	19.0 8.6

@ Gooseneck design, end-to-end dimension fittings in this size, contact your nearest Victaulic sales office.
† Chinese standard sizes
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

Grooved End Fittings



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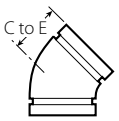

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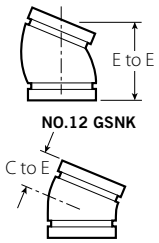
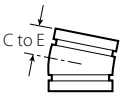


NO.12 GSNK

NO. 12



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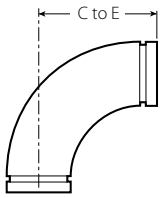

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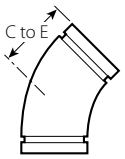


NO. 110

Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow		No. 13 11¼° Elbow		No. 100† 90° Long Radius Elbow (S)		No. 110† 45° Long Radius Elbow (S)	
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg	C to E Inches mm	Approx. Wgt. Each Lbs. kg
8 200	8.625 219.1	7.75 197	29.9 13.6	4.25 108	20.4 9.3	7.75 @ 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	4.38sw 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	4.88sw 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 # 350	14.000 355.6	14.00 355.6	136.0 61.7	5.75 146	65.0 29.5	5.00sw 127	46.0 20.9	3.50sw 89	32.0 14.5	21.00 s 533	164.0 74.4	8.75 s 222	82.0 37.2
377.0 mm †	14.843 377.0	14.84 376.9	149.3 67.7	6.15 156.2	82.0 37.2	—	—	—	—	—	—	—	—
16 # 400	16.000 406.4	16.00 406.4	171.0 77.6	6.63 168	88.0 39.9	5.00sw 127	58.0 26.3	4.00sw 102	42.0 19.1	24.00 s 610	210.0 95.3	10.00 s 254	100.0 45.4
426.0 mm †	16.772 426.0	16.77 426.0	198.6 90.1	6.95 176.5	101.3 45.9	—	—	—	—	—	—	—	—
18 # 450	18.000 457.0	18.00 457.2	228.0 103.4	7.46 189	108.0 50.0	5.50sw 140	65.0 29.5	4.50sw 114	53.2 24.1	27.00 s 686	273.0 123.8	11.25 s 286	135.0 61.2
480.0 mm †	18.898 480.0	18.90 480.0	291.0 132.0	7.83 198.8	141.7 64.3	—	—	—	—	—	—	—	—
20 # 500	20.000 508.0	20.00 508.0	298.0 135.2	8.28 210	138.0 62.6	6.00sw 152	78.6 36.0	5.00sw 127	65.0 29.5	30.00 s 762	343.0 155.6	12.50 s 318	174.0 78.9
530.0 mm †	20.866 530.0	20.87 530.0	355.0 161.0	8.64 219.4	179.0 81.2	—	—	—	—	—	—	—	—
24 # 600	24.000 610.0	24.00 609.6	438.0 198.7	9.94 252	221.0 100.2	7.00sw 178	140.0 63.5	6.00sw 152	60.0 27.2	36.00 s 914	516.0 234.1	15.00 s 381	251.0 113.9
630.0 mm †	24.803 630.0	24.80 630.0	545.0 247.2	10.27 261.0	255.2 115.7	—	—	—	—	—	—	—	—
14 – 24 350 – 600	AGS™ For AGS fitting information, see publication 20.05												

@ Gooseneck design (GSNK), end-to-end dimension fittings in this size, contact your nearest Victaulic sales office.

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 office.

† Chinese standard sizes

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

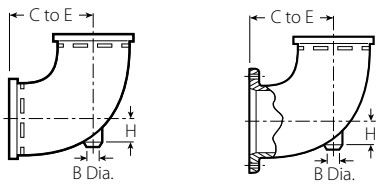
S= Carbon Steel Direct Roll Groove (OGS)

SW= Carbon Steel Segmentally Welded

Grooved End Fittings

Reducing Base Support Elbow

NO. R-10G Grv. × Grv.
NO. R-10F Grv. × Flange



NO. R-10G **NO. R-10F**

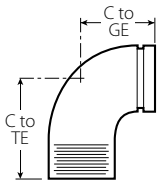
Size			No. R-10 Reducing Base Support Elbow			Approx. Weight Each	
Nominal Size Inches mm			C to E Inches mm	H Inches mm	B Diameter Inches mm	Grv. × Grv. Lbs. kg	Grv. × Flange Lbs. kg
6 150	×	4 100	9.00 229	1.25 32	1.50 38	19.0 8.6	33.0 15.0
		5 125	9.00 229	1.50 38	1.50 38	23.0 10.4	38.0 17.2
8 200	×	6 150	10.50 267	2.13 54	1.50 38	33.0 15.0	52.0 23.6
10 250	×	8 200	12.00 305	2.40 61	1.50 38	61.0 27.7	88.0 39.9

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

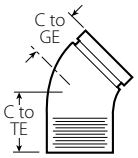
Grooved End Fittings

Adapter Elbow

NO. 18 90° Adapter Elbow
NO. 19 45° Adapter Elbow



NO. 18



NO. 19

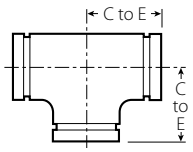
Size		No. 18 90° Adapter Elbow @			No. 19 45° Adapter Elbow @		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26.9	2.25 57	2.25 57	0.5 0.2	1.50 38	1.50 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

@ 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

Grooved End Fittings

Tees, Crosses and True Wyes

NO. 20 Tee
NO. 35 Cross
NO. 33 True Wye
NO. 29M Tee with Threaded Branch



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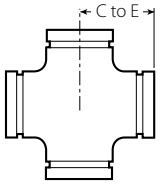

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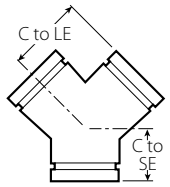
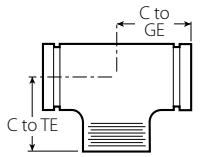


NO. 33



NO. 29M

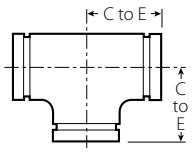
Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch		
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. Weight Each Lbs. kg	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26.9	2.25 57	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
1 ¼ 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
1 ½ 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	3.00 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 73.6
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	10.0 4.5	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
6 150	6.625 168.3	6.50 165	25.7 11.7	6.50 165	28.0 12.7	6.50 165	4.50 114	22.3 10.1	6.50 165	6.50 sw 165	25.7 11.7
8 200	8.625 219.1	7.75 197	47.6 21.6	7.75 197	48.0 21.8	7.75 197	6.00 152	36.0 16.3	7.75 197	7.75 sw 197	47.6 21.6
10 250	10.750 273.0	9.00 229	99.0 44.9	9.00 229	121.5 55.1	9.00 229	6.50 155	69.9 31.7	9.00 229	9.00 sw 229	73.0 33.1
12 300	12.750 323.9	10.00 254	133.0 60.3	10.00 254	110.0 49.9	10.00 254	7.00 178	80.0 36.3	10.00 254	10.00 sw 254	99.0 44.9

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

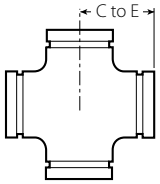
Grooved End Fittings

Tees, Crosses and True Wyes

NO. 20 Tee
NO. 35 Cross
NO. 33 True Wye
NO. 29M Tee with Threaded Branch



NO. 20



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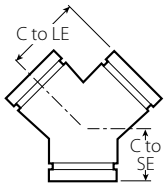
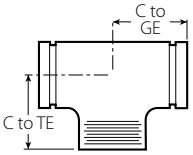


NO. 33



NO. 29M

Size		No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)			No. 29M Tee with Threaded Branch (sw)		
Nominal Size Inches mm	Actual Outside Dia. Inches mm	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. Weight Each Lbs. kg	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg	C to GE Inches mm	C to TE Inches mm	Approx. Weight Each Lbs. kg
14 # 350	14.000 355.6	11.00 sw 279	145.0 65.8	11.00 279	198.0 89.8	11.00 279	7.50 191	134.2 60.8	11.00 sw 279	11.00 279	145.0 65.8
377.0 mm	14.000 355.6	11.50 292	145.0 65.8	—	—	—	—	—	—	—	—
16 # 400	16.000 406.4	12.00 sw 305	186.0 84.4	12.00 305	250.0 113.4	12.00 305	8.00 203	167.0 75.7	12.00 sw 305	12.00 305	186.0 84.4
426.0 mm †	16.000 406.4	13.00 300	186.0 84.4	—	—	—	—	—	—	—	—
18 # 450	18.000 457.0	15.50 sw 394	260.0 117.9	15.50 394	350.0 158.8	15.50 394	8.50 216	234.0 106.1	15.50 sw 394	15.50 394	117.9
480.0 mm†	18.000 457.0	14.57 370	256.0 116.1	—	—	—	—	—	—	—	—
20 # 500	20.000 508.0	17.25 sw 438	336.0 152.4	17.25 438	452.0 205.0	17.25 438	9.00 229	281.0 127.5	17.25 sw 438	17.25 438	336.0 152.4
530.0 mm †	20.000 508.0	15.39 sw 391	339.0 153.8	—	—	—	—	—	—	—	—
24 # 600	24.000 610.0	20.00 sw 508	592.0 268.5	20.00 508	795.0 360.6	20.00 508	10.00 254	523.0 237.2	20.00 sw 508	20.00 508	592.0 268.5
630.0 mm †	24.000 610.0	17.37 sw 441	473.0 214.5	—	—	—	—	—	—	—	—
14 – 24 350 – 600	AGS™ **For AGS fitting information, see publication 20.05**										

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 office.

† Chinese standard sizes

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

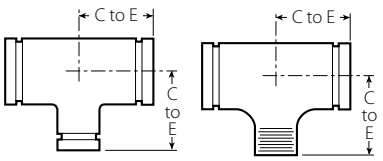
S= Carbon Steel Direct Roll Groove (OGS)

SW= Carbon Steel Segmentally Welded

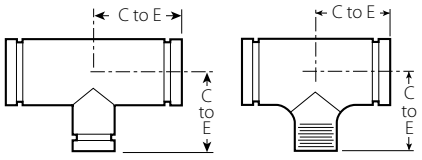
Grooved End Fittings

Reducing Tee

NO. 25 Grooved Branch
NO. 29T Threaded Branch



NO. 25 NO. 29T



NO. 25-SW NO. 29T-SW

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	×	¾ 20	2.25 sw 57	2.24 sw 57	1.0 0.5
1 ¼ 32	×	1 ¼ 32	×	1 25	2.75 sw 70	2.75 sw 70	1.3 0.6
1 ½ 40	×	1 ½ 40	×	¾ 20	2.75 sw 70	2.75 sw 70	1.5 0.7
				1 25	2.75 sw 70	2.75 sw 70	1.5 0.7
				1 ¼ 32	2.75 sw 70	2.75 sw 70	1.7 0.8
2 50	×	2 50	×	¾ 20	3.25 83	3.25 83	2.5 1.1
				1 25	3.25 83	3.25 83	2.7 1.2
				1 ¼ 32	3.25 sw 83	3.25 sw 83	1.8 0.8
				1 ½ 40	3.25 83	3.25 sw 83	3.0 1.4
2 ½ 65	×	2 ½ 65	×	¾ 20	3.75 sw 95	3.75 sw 95	3.9 1.8
				1 25	3.75 95	3.75 sw 95	3.8 1.7
				1 ¼ 32	3.75 sw 95	3.75 sw 95	4.2 1.7
				1 ½ 40	3.75 95	3.75 95	3.9 1.8
				2 50	3.75 95	3.75 sw 95	4.5 2.0
3 80	×	3 80	×	¾ 20	4.25 sw 108	4.25 sw 108	5.7 2.6
				1 25	4.25 108	4.25 108	6.1 2.8
				1 ¼ 32	4.25 sw 108	4.25 sw 108	8.0 3.6
				1 ½ 40	4.25 108	4.25 sw 108	6.5 2.9
				2 50	4.25 108	4.25 sw 108	6.2 2.8
				2 ½ 65	4.25 108	4.25 sw 108	6.4 2.9
4 100	×	4 100	×	¾ 20	5.00 sw 127	5.00 sw 127	8.0 3.6
				1 25	5.00 127	5.00 127	7.8 3.5
4 100	×	4 100	×	1 ¼ 32	5.00 sw 127	5.00 sw 127	9.6 4.4
				1 ½ 40	5.00 127	5.00 127	10.2 4.6
				2 50	5.00 127	5.00 127	11.2 5.1
				2 ½ 65	5.00 127	5.00 127	11.4 5.2
				3 80	5.00 127	5.00 127	11.6 5.3
5 125	×	5 125	×	1 25	5.50 sw 140	5.50 sw 140	14.0 6.4
				1 ½ 40	5.50 sw 140	5.50 sw 140	14.3 6.5
				2 50	5.50 sw 140	5.50 sw 140	14.5 6.6
				2 ½ 65	5.50 140	5.50 sw 140	15.2 6.9
				3 80	5.50 140	5.50 sw 140	16.6 7.5
				4 100	5.50 140	5.50 sw 140	16.7 7.6
6 150	×	6 150	×	1 25	6.50 sw 165	6.50 sw 165	23.0 10.4
				1 ½ 40	6.50 sw 165	6.50 sw 165	24.0 10.9
				2 50	6.50 165	6.50 165	21.6 9.8
				2 ½ 65	6.50 165	6.50 165	21.4 11.7
14 – 24 350 – 600					AGS For AGS fitting information, see publication 20.05		

+ Contact Victaulic for details.

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

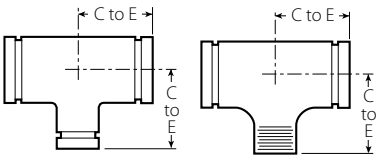
IMPORTANT NOTE:

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

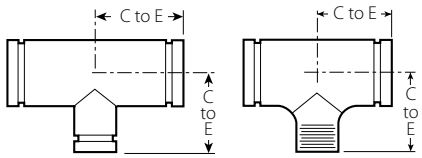
Grooved End Fittings

Reducing Tee

NO. 25 Grooved Branch
NO. 29T Threaded Branch



NO. 25 NO. 29T



NO. 25-SW NO. 29T-SW

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
6 150	× 6 150	× 3 80	6.50 165	6.50 165	26.5 12.0
		4 100	6.50 165	6.50 165	25.0 11.3
		5 125	6.50 165	6.50 165	23.2 10.5
6½ 165.1	× 6½ 165.1	× 3 80	6.50 165	6.50 sw 165	24.0 10.9
		4 100	6.50 165	6.50 sw 165	25.0 11.3
8 200	× 8 200	× 1½ 40	7.75 sw 197	7.75 sw 197	33.0 15.0
		2 50	7.75 sw 197	7.75 sw 197	33.5 15.2
		2½ 65	7.75 sw 197	7.75 sw 197	39.0 17.7
		3 80	7.75 sw 197	7.75 sw 197	33.6 15.2
		4 100	7.75 197	7.75 197	41.8 19.0
		5 125	7.75 sw 197	7.75 sw 197	34.0 15.4
		6 150	7.75 197	7.75 197	42.3 19.2
		165.1	7.75 sw 197	7.75 sw 197	48.0 21.8
10 250	× 10 250	× 1½ 40	9.00 229	9.00 229	62.0 28.1
		2 50	9.00 sw 229	9.00 sw 229	62.0 28.1
		2½ 65	9.00 sw 229	9.00 sw 229	62.4 28.3
		3 80	9.00 sw 229	9.00 sw 229	60.0 27.2
		4 100	9.00 sw 229	9.00 sw 229	61.0 27.7
		5 125	9.00 sw 229	9.00 sw 229	52.0 23.6
		6 150	9.00 sw 229	9.00 sw 229	59.0 26.8
		8 200	9.00 sw 229	9.00 sw 229	64.7 29.3
12 300	× 12 300	× 1 25	10.00 sw 254	10.00 sw 254	77.0 34.9
		2 50	10.00 sw 254	10.00 sw 254	80.0 36.3
		2½ 65	10.00 sw 254	10.00 sw 254	78.0 35.4
		3 80	10.00 sw 254	10.00 sw 254	82.0 37.2
		4 100	10.00 sw 254	10.00 sw 254	80.0 36.3
		5 125	10.00 sw 254	10.00 sw 254	75.0 34.0
		6 150	10.00 sw 254	10.00 sw 254	75.0 34.0
		8 200	10.00 sw 254	10.00 sw 254	80.0 36.3
		10 250	10.00 sw 254	10.00 sw 254	84.0 38.1
# 14 350	× 14 350	× 4 100	11.00 sw 279	11.00 sw 279	102.0 46.3
		6 150	11.00 sw 279	11.00 sw 279	108.2 49.1
		8 200	11.00 279	11.00 279	112.0 50.8
		10 300	11.00 279	11.00 279	120.0 54.4
		12 300	11.00 279	11.00 279	129.1 58.6
# 16 400	× 16 400	× 4 100	+	+	130.0 59.0
14 – 24 350 – 600			AGS™ For AGS fitting information, see publication 20.05		

+ Contact Victaulic for details.

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

IMPORTANT NOTE:

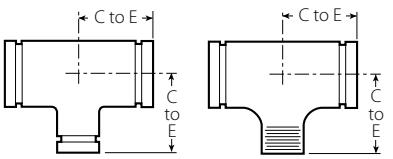
No. 29T Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

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 office.

Grooved End Fittings

Reducing Tee

NO. 25 Grooved Branch
NO. 29T Threaded Branch



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
# 16 400	×	16 400	× 6 150	12.00 sw 305	12.00 sw 305	133.5 60.6
			8 200	12.00 305	12.00 305	145.0 65.8
			10 250	12.00 305	12.00 305	149.5 67.8
			12 300	12.00 305	12.00 305	154.0 69.9
			14 350	12.00 sw 305	—	167.0 75.8
# 18 450	×	18 450	× 4 100	15.50 sw 394	15.50 sw 394	194.0 88.0
			6 150	15.50 sw 394	15.50 sw 394	200.0 90.7
			8 200	15.50 sw 394	15.50 sw 394	202.0 91.6
			10 250	15.50 394	15.50 394	212.0 96.2
			12 300	15.50 394	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
# 20 500	×	20 500	× 6 150	17.25 438	17.25 438	240.0 108.9
			8 200	17.25 438	17.25 438	244.0 110.7
			10 250	17.25 438	17.25 438	256.0 116.1
			12 300	17.25 438	17.25 438	264.0 119.8
			14 350	17.25 438	—	275.0 124.7
# 20 500	×	20 500	× 16 400	17.25 438	—	288.6 130.9
			18 450	17.25 438	—	297.0 134.7
# 24 600	×	24 600	× 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 § 350	20.00 508	—	360.0 163.3
			16 400	20.00 508	—	378.0 171.5
			18 § 450	20.00 508	—	380.0 172.4
			20 500	20.00 508	—	373.0 169.2
14 – 24 350 – 600				AGS™ For AGS fitting information, see publication 20.05		

+ Contact Victaulic for details.

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

IMPORTANT NOTE:

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

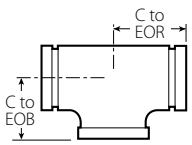
For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales office.

§ Cast fitting available. Contact Victaulic for details.

Grooved End Fittings

Bullhead Tee

NO. 21



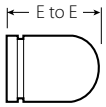
NO. 21

Size				No. 21 Bullhead Tee		
Nominal Size Inches mm				C to EOR Inches mm	C to EOB Inches mm	Approx. Weight Each Lbs. kg
5 125	×	5 125	× 8 200	7.75 197	5.50 140	28.7 13.0
6 150	×	6 150	× 8 200	7.75 197	6.50 165	37.5 17.0

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 50	2.375 60.3	4.00 102	2.5 1.1
2½ 65	2.875 73.0	5.00 127	3.0 1.4
3 80	3.500 88.9	6.00 152	4.5 2.0
4 100	4.500 114.3	7.00 178	7.5 3.4
5 125	5.563 141.3	8.00 203	12.0 5.4
6 150	6.625 168.3	10.00 254	17.0 7.7

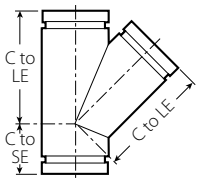
IMPORTANT NOTES:

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

Grooved End Fittings

45° Lateral

NO. 30



NO. 30

Size		No. 30 45° Lateral (SW)		
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 20	1.050 26.9	4.50 114	2.00 51	1.0 0.5
1 25	1.315 33.7	5.00 127	2.25 57	1.7 0.8
1 ¼ 32	1.660 42.4	5.75 146	2.50 64	2.5 (d) 1.1
1 ½ 40	1.900 48.3	6.25 159	2.75 70	3.5 1.6
2 50	2.375 60.3	7.00 178	2.75 70	4.6 (d) 2.1
2 ½ 65	2.875 73.0	7.75 197	3.00 76	9.0 94.1
76.1 mm	3.000 76.1	8.50 216	3.25 83	11.0 5.0
3 80	3.500 88.9	8.50 216	3.25 83	11.7 (d) 5.4
3 ½ 90	4.000 101.6	10.00 254	3.50 89	17.8 8.1
4 100	4.500 114.3	10.50 267	3.75 95	22.2 (d) 10.1
5 125	5.563 141.3	12.50 318	4.00 102	21.8 9.9
165.1 mm	6.500 165.1	14.00 356	4.50 114	43.6 19.8

Size		No. 30 45° Lateral (SW)		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg
6 150	6.625 168.3	14.00 356	4.50 114	43.6 19.8
8 200	8.625 219.1	18.00 457	6.00 152	72.0 32.7
10 250	10.750 273.0	20.50 521	6.50 165	105.0 47.6
12 300	12.750 323.9	23.00 584	7.00 178	165.0 74.8
14 # 350	14.000 355.6	26.50 673	7.50 191	276.0 125.2
16 # 400	16.000 406.4	29.00 737	8.00 203	344.2 156.1
18 # 450	18.000 457.0	32.00 813	8.50 216	429.0 194.6
20 # 500	20.000 508.0	35.00 889	9.00 229	500.0 226.8
24 # 600	24.000 610.0	40.00 1016	10.00 254	715.0 324.3
14 – 24 350 – 600	AGS™ **For AGS fitting information, see publication 20.05**			

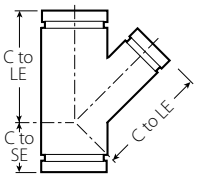
For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales office.

Note: All fittings are segmentally welded steel unless otherwise noted with a (d) for ductile iron.

Grooved End Fittings

45° Reducing Lateral

NO. 30-R



NO. 30-R

Size					No. 30-R 45° Reducing Lateral (SW)		
Nominal Size Inches mm					C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg
3 80	x	3 80	x	2 50	8.50 216	3.25 83	9.8 4.4
				2½ 65	8.50 216	3.25 83	9.8 4.4
4 100	x	4 100	x	2 50	10.50 267	3.75 95	10.0 4.5
				2½ 65	10.50 267	3.75 95	10.0 4.5
				3 80	10.50 267	3.75 95	18.3 8.3
5 125	x	5 125	x	2 50	12.50 318	4.00 102	24.0 10.9
				3 80	12.50 318	4.00 102	27.0 212.2
				4 100	12.50 318	4.00 102	26.5 12.0
6 150	x	6 150	x	3 80	14.00 356	4.50 114	37.0 16.8
				4 100	14.00 356	4.50 114	36.0 16.3
				5 125	14.00 356	4.50 114	44.7 20.3
8 200	x	8 200	x	4 100	18.00 457	6.00 152	62.0 28.1
				5 125	18.00 457	6.00 152	75.5 34.2
				6 150	18.00 457	6.00 152	82.0 37.2
10 250	x	10 250	x	4 100	20.50 521	6.50 165	104.8 147.5
				5 125	20.50 521	6.50 165	99.0 44.9
				6 150	20.50 521	6.50 165	105.8 48.0
				8 200	20.50 521	6.50 165	118.0 53.5
12 300	x	12 300	x	5 125	23.00 584	7.00 178	122.0 55.3
				6 150	23.00 584	7.00 178	137.0 62.1
				8 200	23.00 584	7.00 178	147.0 66.7
				10 250	23.00 584	7.00 178	167.0 75.8

Size					No. 30-R 45° Reducing Lateral (SW)		
Nominal Size Inches mm					C to LE Inches mm	C to SE Inches mm	Approx. Weight Each Lbs. kg
# 14 350	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	26.50 673	7.50 191	235.0 106.6
				12 300	26.50 673	7.50 191	250.0 113.4
# 16 400	x	16 400	x	6 150	29.00 737	8.00 203	215.0 97.5
				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
# 18 450	x	18 450	x	6 150	32.00 813	8.50 216	274.0 124.3
				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
# 20 500	x	20 500	x	12 300	35.00 889	9.00 229	415.0 188.2
				14 350	35.00 889	9.00 229	420.0 190.5
				16 400	35.00 889	9.00 229	425.0 192.8
# 24 600	x	24 600	x	16 400	40.00 1016	10.00 254	425.0 192.8
				20 600	40.00 1016	10.00 254	570.0 258.6
14 – 24 350 – 600					AGS For AGS fitting information, see publication 20.05		

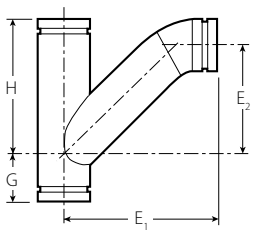
For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales office.

Note: All fittings are segmentally welded steel unless otherwise noted a (d) for ductile iron.

Grooved End Fittings

Tee Wye

NO. 32



NO. 32

Size												No. 32 Tee Wye (SW)				
Nominal Size Inches mm												G Inches mm	H Inches mm	E1 Inches mm	E2 Inches mm	Approx. Wgt. Each Lbs. kg
2	×	2	×	2								2.75	7.00	9.00	4.63	6.4
50		50		50								70	178	229	118	2.9
2½	×	2½	×	2½								3.00	7.75	10.50	5.75	11.5
65		65		65								76	197	267	146	5.2
3	×	3	×	3								3.25	8.50	11.50	6.50	14.3
80		80		80								83	216	292	165	6.5
3½	×	3½	×	3½								3.25	10.00	13.00	7.75	22.9
90		90		90								89	254	330	197	10.4
4	×	4	×	4								3.75	10.50	13.63	8.13	26.0
100		100		100								95	267	346	207	11.8

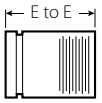
Size												No. 32 Tee Wye (SW)				
Nominal Size Inches mm												G Inches mm	H Inches mm	E1 Inches mm	E2 Inches mm	Approx. Wgt. Each Lbs. kg
5	×	5	×	5								4.00	12.50	16.13	10.00	48.0
125		125		125								102	318	410	254	21.8
6	×	6	×	6								4.50	14.00	18.25	11.50	60.5
150		150		150								114	356	464	292	27.4
8	×	8	×	8								6.00	18.00	23.25	15.25	127.1
200		200		200								152	457	591	387	57.7
10	×	10	×	10								6.50	20.50	27.25	18.00	190.0
250		250		250								165	521	692	457	186.2
12	×	12	×	12								7.00	23.00	31.00	20.50	240.0
300		300		300								178	584	787	521	108.9

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

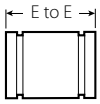
Grooved End Fittings

Adapter Nipple

NO. 40 Grv. × Thd.
NO. 42 Grv. × Bev.
NO. 43 Grv. × Grv.



NO. 40 *



NO. 43

NO. 42

Size		No. 40, 42, 43 Adapter 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	3.00 76	0.3 0.1
1 25	1.315 33.7	3.00 76	0.4 0.2
1¼ 32	1.660 42.4	4.00 102	0.8 0.4
1½ 40	1.900 48.3	4.00 102	0.9 0.4
2 50	2.375 60.3	4.00 102	1.2 0.5
2½ 65	2.875 73.0	4.00 102	1.9 0.9
3 80	3.500 88.9	4.00 102	2.5 1.1
3½ 90	4.000 101.6	4.00 102	2.1 0.9
4 100	4.500 114.3	6.00 152	5.5 2.5
5 125	5.563 141.3	6.00 152	7.4 3.4

Size		No. 40, 42, 43 Adapter Nipple (s)	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
6 150	6.625 168.3	6.00 152	9.5 4.3
8 200	8.625 219.1	6.00 152	14.2 6.4
10 250	10.750 273.0	8.00 203	27.0 12.2
12 300	12.750 323.9	8.00 203	33.0 15.0

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

IMPORTANT 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 office.

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

Grooved End Fittings

Cap

NO. 60

NO. 60

Size		No. 60 Cap	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	T Thickness Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26.9	0.88 22	0.2 0.1
1 25	1.315 33.7	0.88 22	0.3 0.1
1 ¼ 32	1.660 42.4	0.88 22	0.3 0.1
1 ½ 40	1.900 48.3	0.88 22	0.5 0.2
2 50	2.375 60.3	0.88 22	0.6 0.3
2 ½ 65	2.875 73.0	0.88 22	1.0 0.5
76.1 mm	3.000 76.1	0.88 22	1.2 0.5
3 80	3.500 88.9	0.88 22	1.2 0.5
3 ½ 90	4.000 101.6	0.88 22	2.5 1.1
108.0 mm	4.250 108.0	1.00 25	2.3 1.0
4 100	4.500 114.3	1.00 25	2.5 1.1
133.0 mm	5.250 133.0	1.00 25	4.5 2.0
139.7 mm	5.500 139.7	1.00 25	4.5 2.0
5 125	5.563 141.3	1.00 25	4.6 2.1
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

Size		No. 60 Cap	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	T Thickness Inches mm	Approx. Weight Each Lbs. kg
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 # (s) 350	14.000 355.6	9.50 241	*
16 # (s) 400	16.000 406.4	10.00 254	*
18 # (s) 450	18.000 457.0	11.00 279	*
20 # (s) 500	20.000 508.0	12.00 305	*
24 # (s) 600	24.000 610.0	13.50 343	*
14 – 24 350 – 600	AGS™ **For AGS fitting information, see publication 20.05**		

IMPORTANT NOTES:

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

No. 60 cap is not suitable for use in vacuum service with Style 72 or 750 couplings. No. 61 bull plugs should be used, see pg. 35.

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 office.

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

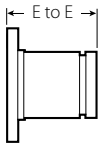
S= Carbon Steel Direct Roll Groove (OGS)

SW= Carbon Steel Segmentally Welded

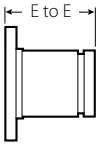
Grooved End Fittings

Flanged Adapter Nipple

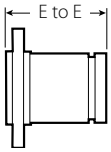
NO. 41 ANSI Class 125 (Cast Iron)
NO. 45F ANSI Class 150 Flat Face
NO. 45R ANSI Class 150 Raised Face
NO. 46F ANSI Class 300 Flat Face
NO. 46R ANSI Class 300 Raised Face



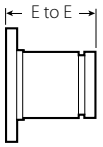
NO. 41



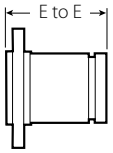
NO. 45F



NO. 45R



NO. 46F



NO. 46R

Size		No. 41 ANSI 125 Flange Adapter Nipple		No. 45F and No. 45R ANSI 150 Flange Adapter Nipple (S)		No. 46F and No. 46R ANSI 300 Flange 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
¾ 20	1.050 26.9	3 76	—	3 76	2.3 1.0	3 76	3.3 1.5
1 25	1.315 33.7	3 76	2.5 1.1	3 76	2.7 1.2	3 76	3.9 1.8
1¼ 32	1.660 42.4	4 102	3.0 1.4	4 102	3.3 1.5	4 102	4.8 2.2
1½ 40	1.900 48.3	4 102	3.5 1.6	4 102	3.9 1.8	4 102	6.9 3.1
2 50	2.375 60.3	4 102	5.5 2.5	4 102	6.2 2.8	4 102	8.2 3.7
2½ 65	2.875 73.0	4 102	8.0 3.6	4 102	9.9 4.5	4 102	11.9 5.4
3 80	3.500 88.9	4 102	9.5 4.3	4 102	11.4 5.2	4 102	16.5 7.5
3½ 90	4.00 101.6	4 102	12.0 5.4	4 102	15.1 6.8	4 102	20.1 9.1
4 100	4.500 114.3	6 152	16.7 7.6	6 152	18.4 8.3	6 152	27.4 12.4
5 125	5.563 141.3	6 152	21.5 9.8	6 152	21.3 9.7	6 152	35.3 16.0
6 150	6.625 168.3	6 152	26.5 12.0	6 152	27.5 12.5	6 152	47.5 21.5
8 200	8.625 219.1	6 152	39.0 17.7	6 152	41.3 18.8	6 152	70.3 31.9
10 250	10.750 273.0	8 203	57.0 25.9	8 203	59.8 27.1	8 203	100.8 45.7
12 300	12.750 323.9	8 203	41.0 18.6	8 203	88.2 40.0	8 203	146.2 66.3
14 # 350	14.000 355.6	8 203	—	8 203	+	8 203	+
16 # 400	16.000 406.4	8 203	—	8 203	+	8 203	+
18 # 450	18.000 457.0	8 203	—	8 203	+	8 203	+
20 # 500	20.000 508.0	8 203	—	8 203	+	8 203	+
24 # 600	24.000 610.0	8 203	—	8 203	+	8 203	+
14 – 24 350 – 600	AGS™ **For AGS fitting information, see publication 20.05**						

IMPORTANT NOTES:

+ Contact Victaulic for details.

Flanged adapter nipples are supplied with standard rolled grooves.
Standard cut grooves or machining for rubber lining are optionally available. Contact Victaulic for details.

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 office.

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

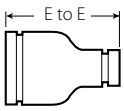
S= Carbon Steel Direct Roll Groove (OGS)

SW= Carbon Steel Segmentally Welded

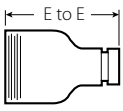
Grooved End Fittings

Swaged Nipple

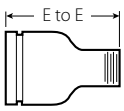
NO. 53 Grv. × Grv.
NO. 54 Grv. × Thd.
NO. 55 Thd. × Grv.



NO. 53



NO. 55



NO. 54

Size			No. 53, 54 and 55 Swaged Nipples (S)	
Nominal Size Inches mm			E to E Inches mm	Approx. Weight Each Lbs. kg
2 50	×	1 25	6.50 165	2.0 0.9
		1 ¼ 32	6.50 165	2.0 0.9
		1 ½ 40	6.50 165	2.0 0.9
2 ½ 65	×	1 25	7.00 178	3.0 1.4
		1 ¼ 32	7.00 178	3.0 1.4
		1 ½ 40	7.00 178	3.0 1.4
		2 50	7.00 178	3.0 1.4
3 80	×	1 25	8.00 203	4.5 2.0
		1 ¼ 32	8.00 203	4.5 2.0
		1 ½ 40	8.00 203	4.4 2.0
		2 50	8.00 203	4.5 2.0
		2 ½ 65	8.00 203	4.5 2.0
3 ½ 90	×	3 80	8.00 203	6.8 3.1
4 100	×	1 25	9.00 229	7.5 3.4
		1 ¼ 32	9.00 229	7.5 3.4
		1 ½ 40	9.00 229	7.5 3.4
		2 50	9.00 229	7.5 3.4
4 100	×	2 ½ 65	9.00 229	7.5 3.4

Size			No. 53, 54 and 55 Swaged Nipples (S)	
Nominal Size Inches mm			E to E Inches mm	Approx. Weight Each Lbs. kg
4 100	×	3 80	9.00 229	7.5 3.4
		3 ½ 90	9.00 229	7.5 3.4
5 125	×	2 50	11.00 279	11.5 5.2
		3 80	11.00 279	11.3 5.1
		4 100	11.00 279	11.5 5.2
6 150	×	1 25	12.00 305	17.0 7.7
		1 ¼ 32	12.00 305	17.0 7.7
		1 ½ 40	12.00 305	17.2 7.8
		2 50	12.00 305	17.4 7.9
		2 ½ 65	12.00 305	17.4 7.9
		3 80	12.00 305	17.4 7.9
		3 ½ 90	12.00 305	17.4 7.9
		4 100	12.00 305	17.5 7.9
		4 ½ 120	12.00 305	17.5 7.9
		5 125	12.00 305	17.5 7.9
8 200	×	6 150	+	20.0 9.1

+ Contact Victaulic for details.

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

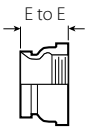
S= Carbon Steel Direct Roll Groove (OGS)

SW= Carbon Steel Segmentally Welded

Grooved End Fittings

Female Threaded Adapter

NO. 80



NO. 80

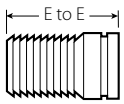
Size		No. 80 Female Threaded Adapter	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg
¾ 20	1.050 26.9	2.00 51	1.0 0.5
1 25	1.315 33.7	2.06 52	1.0 0.5
1 ¼ 32	1.660 42.4	2.31 (sw) 59	1.5 0.7
1 ½ 40	1.900 48.3	2.31 (sw) 59	1.5 0.7
2 50	2.375 60.3	2.50 64	1.4 0.6
2 ½ 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

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

IMPORTANT NOTE:
Available with British Standard Pipe threads, specify "BSP" clearly on order.

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
1 ¼ 32	1.660 42.4	3.88 98	0.6 0.3
1 ½ 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
2 ½ 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	10.12 257	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

Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".
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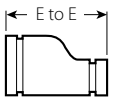
SW= Carbon Steel Segmentally Welded

Grooved End Fittings

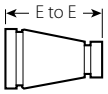
Concentric/Eccentric Reducer

NO. 50 Concentric
NO. 51 Eccentric

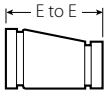
NO. 50



NO. 51



Fabricated Steel
No.50



Fabricated Steel
No.51

Size			No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches mm			E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
1 ¼ 32	×	¾ 20	+	1.9 0.9	—	—
		1 25	+	1.9 0.9	—	—
1 ½ 40	×	¾ 20	+	1.4 0.6	—	—
		1 25	2.50 64	0.8 0.4	8.50 sw 216	4.5 2.0
		1 ¼ 32	2.50 64	1.0 0.5	—	—
2 50	×	¾ 20	2.50 64	0.9 0.3	9.00 sw 229	2.0 0.9
		1 25	2.50 64	0.7 0.3	9.00 sw 229	2.3 1.0
		1 ¼ 32	2.50 64	1.2 0.5	9.00 sw 229	4.6 2.1
		1 ½ 40	3.50 89	1.0 0.5	3.50 89	1.1 0.5
2 ½ 65	×	¾ 20	+	1.3 0.6	+	3.3 1.5
		1 25	2.50 64	1.1 0.5	9.50 241	3.5 1.6
		1 ¼ 32	3.50 89	3.3 1.5	3.50 89	1.4 0.6
		1 ½ 40	2.50 64	3.6 1.6	9.50 sw 241	3.7 1.7
		2 50	2.50 64	3.9 1.8	3.50 89	4.3 2.0
3 80	×	¾ 20	+	1.5 0.7	+	4.5 2.0
		1 25	2.50 241	1.3 0.6	9.50 sw 241	4.8 2.2
		1 ¼ 32	2.50 64	1.4 0.6	+	4.8 2.2
		1 ½ 40	2.50 64	5.1 2.3	9.50 sw 241	5.1 2.3
		2 50	2.50 64	1.6 0.7	3.50 89	6.0 2.7
		2 ½ 65	2.50 64	1.8 0.8	3.50 89	7.0 3.2
		76.1	2.50 64	2.1 1.0	—	—

Size			No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches mm			E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
3 ½ 90	×	3 80	2.50 64	2.0 0.9	9.50 sw 241	7.0 3.2
4 100	×	1 25	3.00 76	3.0 1.4	13.00 sw 330	6.5 2.9
		1 ¼ 32	+	4.6 2.1	—	—
		1 ½ 40	3.00 sw 76	2.6 1.2	10.00 sw 254	8.1 3.7
		2 50	3.00 76	2.4 1.1	4.00 102	3.3 1.5
		2 ½ 65	3.00 76	2.7 1.2	4.00 102	3.4 1.5
		3 80	3.00 76	3.2 1.4	4.00 102	3.5 1.6
		3 ½ 90	3.00 76	2.9 1.3	10.00 sw 254	8.0 3.6
5 125	×	2 50	11.00 sw 279	9.0 4.1	11.00 sw 279	5.2 2.4
		2 ½ 65	4.00 102	4.3 2.0	11.00 sw 279	10.8 4.9
		3 80	4.00 102	55 2.5	11.00 sw 279	11.1 5.0
		4 100	3.50 89	4.3 1.9	5.00 127	12.0 5.4
6 150	×	1 25	4.00 102	5.0 2.3	11.50 sw 292	14.5 6.6
		1 ½ 40	+	5.5 2.5	+	+
		2 50	4.00 102	6.6 3.0	11.50 sw 292	14.5 6.6
		2 ½ 65	4.00 102	6.4 2.9	11.50 sw 292	14.2 6.4
		3 80	4.00 102	6.4 2.9	5.50 140	15.0 6.8
		4 100	4.00 102	6.5 2.9	5.50 140	17.0 7.7
		5 125	4.00 102	6.4 2.9	5.50 140	17.0 7.7
8 200	×	2 ½ 65	16.00 406	7.9 3.6	12.00 sw 305	26.1 11.8
		3 80	5.00 127	9.3 4.2	12.00 sw 305	22.0 10.0

Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".
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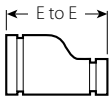
SW= Carbon Steel Segmentally Welded

Grooved End Fittings

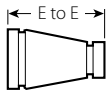
Concentric/Eccentric Reducer

NO. 50 Concentric
NO. 51 Eccentric

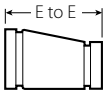
NO. 50



NO. 51



Fabricated Steel
No.50



Fabricated Steel
No.51

Size		No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
Nominal Size Inches mm		E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
8 200	× 4 100	5.00 127	10.4 4.8	12.00 sw 305	23.0 10.4
	5 125	5.00 127	11.6 5.2	12.00 sw 305	23.0 10.4
	6 150	5.00 127	11.9 5.4	6.00 152	24.0 10.9
10 250	× 4 100	6.00 152	19.7 8.9	13.00 sw 330	32.0 14.5
	5 125	+	34.3 15.6	+	34.6 15.7
	6 150	6.00 152	20.0 9.1	13.00 sw 330	36.9 16.7
	8 200	6.00 152	22.0 10.0	7.00 178	21.6 9.8
12 300	× 4 100	+	44.0 20.0	14.00 sw 356	48.0 21.8
	6 150	7.00 178	24.6 11.2	14.00 sw 356	50.0 22.7
	8 200	7.00 178	52.0 23.6	14.00 sw 356	53.5 24.3
	10 250	7.00 178	39.0 17.7	14.00 sw 356	57.0 25.9
# 14 350	× 6 150	13.00 330	65.0 29.5	13.00 330	60.0 27.2
	8 200	13.00 330	65.0 29.5	13.00 330	60.0 27.2
	10 250	13.00 330	66.0 29.9	13.00 330	65.0 29.5
	12 300	13.00 330	68.0 30.8	13.00 330	66.0 29.9
# 16 400	× 8 200	14.00 356	73.0 33.1	14.00 355	73.0 33.1
	10 § 250	14.00 356	73.0 33.1	14.00 355	73.0 33.1
	12 300	14.00 356	73.0 33.1	14.00 355	73.0 33.1
	14 350	14.00 356	73.0 33.1	14.00 355	73.0 33.1
# 18 450	× 10 250	15.00 381	91.0 41.3	15.00 381	91.0 41.3
# 18 450	x 12 300	15.00 381	91.0 41.3	15.00 381	91.0 41.3
	14 350	15.00 381	91.0 41.3	15.00 381	91.0 41.3
	16 400	15.00 381	91.0 41.3	15.00 381	91.0 41.3
# 20 500	× 10 250	20.00 508	110.0 49.9	20.00 508	177.0 80.3
	12 300	20.00 508	120.0 54.4	20.00 508	120.0 54.4
	14 350	20.00 508	149.0 67.9	20.00 508	149.0 67.9
	16 400	20.00 508	120.0 54.4	20.00 508	120.0 54.4
	18 450	20.00 508	136.0 61.7	20.00 508	136.0 61.7
# 24 600	× 10 250	20.00 508	142.0 64.4	20.00 508	142.0 64.4
	12 300	20.00 508	150.0 68.0	20.00 508	150.0 68.0
	14 350	20.00 508	162.0 73.5	20.00 508	162.0 73.5
	16 400	20.00 508	162.0 73.5	20.00 508	162.0 73.5
	18 450	20.00 508	162.0 73.5	20.00 508	162.0 73.5
	20 500	20.00 508	151.0 68.5	20.00 508	190.0 86.2
14 – 24 350 – 600		AGS For AGS fitting information, see publication 20.05			

\+ Contact Victaulic for details.

* Available with male threaded small end No. 52.

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

IMPORTANT NOTE:

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

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 office.

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

Grooved End Fittings

Small Threaded Reducer

NO. 52

NO. 52

NO. 52F

Size			No. 52 Small Threaded 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 Inches mm	Approx. Weight Each Lbs. kg
1 ½ 40	×	1 25	2.50 64	0.8 0.4	—	—
		1 ¼ 32	2.50 64	0.9 0.4	—	—
2 50	×	¾ 20	2.50 64	0.9 0.4	—	—
		1 25	2.50 64	0.7 0.3	—	—
		1 ¼ 32	2.50 64	1.2 0.5	—	—
		1 ½ 40	2.50 64	1.0 0.5	—	—
2 ½ 65	×	1 25	2.50 64	1.1 0.5	—	—
		1 ¼ 32	2.50 (sw) 64	1.2 0.5	—	—
		1 ½ 40	2.50 (sw) 64	1.3 0.6	—	—
		2 50	3.00 76	1.4 0.6	—	—
76.1	×	48.3	63.5	0.8	63.5	0.77
		60	—	—	63.5	0.85
3 80	×	¾ 20	+ (sw)	1.5 0.7	—	—
		1 25	2.50 64	1.3 0.6	—	—
		1 ¼ 32	2.50 64	1.5 0.7	—	—
		1 ½ 40	2.50 (sw) 64	1.5 0.7	—	—
		2 50	2.50 64	1.5 0.7	—	—
		2 ½ 65	2.50 64	2.4 1.1	—	—
88.9	×	42.4	63.5	0.9	63.5	0.82
		48.3	63.5	0.9	63.5	0.85
		60	—	—	63.5	0.89
4 100	×	1 25	3.00 76	2.3 1.0	—	—
		1 ½ 40	3.00 76	2.7 1.2	—	—
		2 50	3.00 76	2.6 1.2	—	—
4 100	×	2 ½ 65	3.00 76	2.6 1.2	—	—
		3 80	3.00 76	2.5 1.1	—	—
108	×	42.4	76.2	1.3	76.2	1.32
		48.3	76.2	1.3	76.2	1.35
		60	—	—	76.2	1.39
114.3	×	42.4	76.2	1.3	76.2	1.30
		48.3	76.2	1.3	76.2	1.34
		60	—	—	76.2	1.40
5 125	×	4 100	+	4.5 2.0	—	—
133	×	60	—	—	114.3	2.17
139	×	60	—	—	114.3	2.26
6 150	×	1 25	4.00 102	5.5 2.5	—	—
		2 50	4.00 102	5.7 2.6	—	—
		2 ½ 65	4.00 102	5.8 2.6	—	—
		3 80	4.00 102	5.8 2.6	—	—
		4 100	+ (sw)	6.5 2.9	—	—
		5 125	+ (sw)	2.0 0.9	—	—
159	x	42.4	114.3	2.2	114.3	2.45
		48.3	114.3	2.2	114.3	2.51
		60	—	—	114.3	2.60
165.1	x	42.4	101.6	2.4	101.6	2.90
		48.3	101.6	2.6	101.6	2.95
		60	—	—	101.6	3.00
8 200	×	2 50	16.00 406	1.5 0.7	—	—
		2 ½ 65	16.00 406	1.7 0.8	—	—

\+ Contact Victaulic for details.

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

IMPORTANT NOTE:

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

Grooved End Fittings

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.

UPDATED 12/2011
07.01 1449 REV Q