

Grooved End Fittings

UL FM ULC VdS LPCB
SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

Victaulic offers a broad line of fittings in sizes through 48"/1200mm 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.

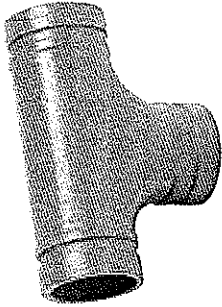
All fittings are supplied with grooves or shoulders to permit fast installation without field preparation. The grooved design permits flexibility for easy alignment. *These fittings are not intended for use with Victaulic couplings for plain end pipe (refer to Section 14.04 for fittings available for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

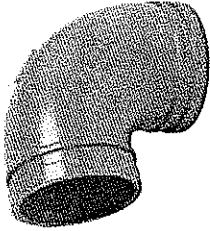
Victaulic fittings are designed specifically for use in grooved piping systems. Fittings are provided grooved or with shoulders conforming to standard steel pipe outside diameters. When connecting wafer or lug-type butterfly valves directly to Victaulic fittings with 741 or 743 Vic-Flange® adapters,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

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

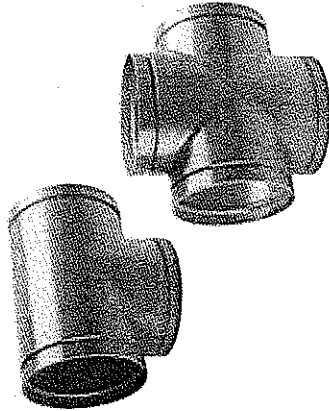
Note: The following Victaulic fittings are LPCB approved: NO.10 90° Elbow, NO.11 45° Elbow, NO.12 22½° Elbow, NO.13 11¼° Elbow, NO.30 45° Lateral, NO.30-R Reducing Lateral, NO.100 Long Radius Elbow, NO.110 Long Radius Elbow, NO.20 Tee, NO.35 Cross, NO.60 Cap, NO.25 Reducing Tee, NO.33 True Wye, NO.50 Concentric Reducer, NO.51 Eccentric Reducer, NO.29M Tee with Threaded Branch, NO.27 Standpipe Tee, and NO.32 Tee Wye.



NO. 20 TEE



NO. 10 ELBOW



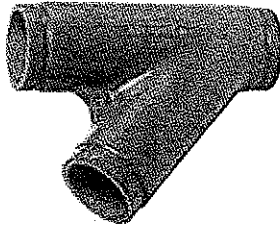
AGS - ADVANCED GROOVE SYSTEM

Advanced Groove System – For 14 – 24"/350 – 600mm 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 – 200mm. Refer to Section 21.03 or contact Victaulic for details.

ALTERNATE STYLES



Extra Heavy EndSeal® "ES" Fittings – EndSeal fittings are available in 2 – 12"/50 – 300mm 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 _____

www.victaulic.com

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SHOP DRAWING REVIEW			
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☒ NO COMMENT	Submission No. <u>83</u>		
☐ SEE COMMENTS	Project No. <u>078107</u>		
☐ AMEND & RESUBMIT	By <u>GS</u>		
☐ REJECTED	Date <u>June 29/10</u>		
DILLON CONSULTING LIMITED			

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)

- $\frac{3}{4}$ - 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)

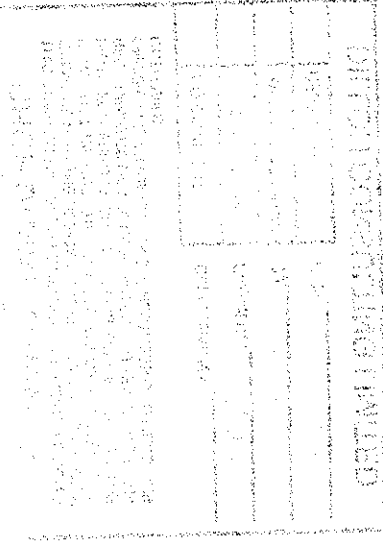
- Class 125 Flange: Cast iron conforming to ANSI B-16.1
- Class 150 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face
- Class 300 Flange: Carbon steel conforming to ANSI B-16.5, raised or flat face

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.

Nominal Pipe Size Inches	Actual Outside Diameter Inches	Dimension - Feet/meters						Bends
		10-10 Straight Radius	50° Elbow	45° Elbow	16-10 Straight Radius	No. 10 1/2° Elbow Radius	16-10 Straight Radius	
1	1.315	1.7	—	—	0.8	—	—	4.2
25	33.7	0.5	—	—	0.2	—	—	1.3
2	2.375	3.5	2.5	—	1.8	—	—	8.5
50	60.3	1.1	0.8	—	0.5	—	—	2.6
76.1 mm	3.000	4.3	—	—	2.1	—	—	10.8
	76.1	1.3	—	—	0.7	—	—	3.3
3	3.500	5.0	3.8	—	2.6	—	—	13.0
80	88.9	1.5	1.2	—	0.8	—	—	4.0
108.0 mm	4.250	6.4	—	—	3.2	—	—	15.3
	108.0	2.0	—	—	0.9	—	—	4.7
4	4.500	6.8	5.0	—	3.4	—	—	16.0
100	114.3	2.1	1.5	—	1.0	—	—	4.9
133.0 mm	5.250	8.1	—	—	4.1	—	—	20.0
	133.0	2.5	—	—	1.2	—	—	6.2
139.7 mm	5.500	8.5	—	—	4.2	—	—	21.0
	139.7	2.6	—	—	1.3	—	—	6.4
5	5.563	8.5	—	—	4.2	—	—	21.0
125	141.3	2.6	—	—	1.3	—	—	6.4
159.0 mm	6.250	9.4	—	—	4.9	—	—	25.0
	159.0	2.9	—	—	1.5	—	—	7.6
165.1 mm	6.500	9.6	—	—	5.0	—	—	25.0
	165.1	2.9	—	—	1.5	—	—	7.6
6	6.625	10.0	7.5	—	5.0	—	—	25.0
150	168.3	3.0	2.3	—	1.5	—	—	7.6
8	8.625	13.0	9.8	—	6.5	—	—	33.0
200	219.1	4.0	3.0	—	2.0	—	—	10.1
10	10.750	17.0	12.0	—	8.3	—	—	41.0
250	273.0	5.2	3.7	—	2.5	—	—	12.5
12	12.750	20.0	14.5	—	10.0	—	—	50.0
300	323.9	6.1	4.4	—	3.0	—	—	15.2
14	14.000	24.5	15.8	—	18.5	—	—	56.0
350	355.6	7.5	4.8	—	5.6	—	—	18.0
16	16.000	28.0	18.0	—	21.0	—	—	60.0
400	406.4	8.5	5.5	—	6.4	—	—	24.4
18	18.000	31.0	20.0	—	23.5	—	—	66.0
450	457.0	9.5	6.1	—	7.2	—	—	27.4
20	20.000	34.0	22.5	—	25.5	—	—	70.0
800	508.0	10.4	6.9	—	7.8	—	—	30.5
24	24.000	42.0	27.0	—	29.5	—	—	80.0
600	610.0	12.8	8.2	—	9.0	—	—	36.6
26	26.000	#	28.0	—	#	—	—	130.0
650	660.4	#	8.5	—	#	—	—	39.6
30	30.000	#	34.0	—	34.0	—	—	100.0
750	762.0	#	10.4	—	#	—	—	40.0
36	36.000	#	40.5	—	40.5	—	—	120.0
900	914.0	#	12.3	—	#	—	—	36.6
42	42.000	#	47.0	—	47.0	—	—	130.0
1050	1067.0	#	14.3	—	#	—	—	43.0

Contact Victaulic for details.

For use on cut grooved systems only. 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.

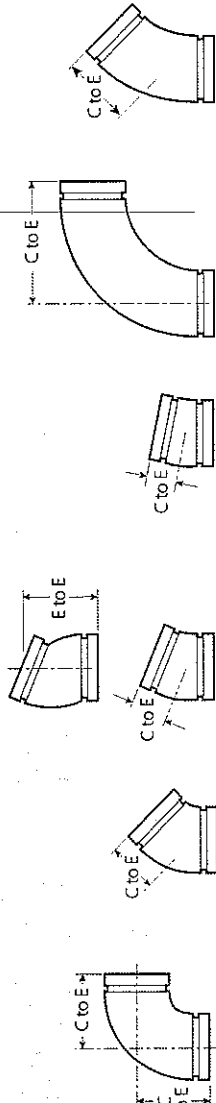
Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s". SW= Segmentally Welded.
S= Carbon Steel

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



Size		No. 10 90° Elbow		No. 11 45° Elbow		No. 12 22½° Elbow (sw)		No. 13 11¼° Elbow (sw)		No. 100† 90° Long Radius Elbow (S)		No. 110† 45° Long Radius Elbow (S)	
Nominal Size Inches	Actual Outside Dia. Inches	C to E Inches	Approx. Wt. Each Lbs.	C to E Inches	Approx. Wt. Each Lbs.	C to E Inches	Approx. Wt. Each Lbs.	C to E Inches	Approx. Wt. Each Lbs.	C to E Inches	Approx. Wt. Each Lbs.	C to E Inches	Approx. Wt. Each Lbs.
¾	1.050	2.25	0.5	1.50	0.5	1.63 sw	—	1.38 sw	—	—	—	—	—
20	26.9	57	0.2	38	0.2	41	—	35	—	—	—	—	—
1	1.315	2.25	0.6	1.75	0.6	3.25 @	0.6	1.38 sw	0.3	—	—	—	—
25	33.7	57	0.3	44	0.3	83	0.3	35	0.1	—	—	—	—
1¼	1.660	2.75	1.0	1.75	0.9	1.75	0.8	1.38 sw	0.5	—	—	—	—
32	42.4	70	0.5	44	0.4	44	0.4	35	0.2	—	—	—	—
1½	1.900	2.75	1.2	1.75	0.9	1.75	0.8	1.38 sw	0.5	—	—	—	—
40	48.3	70	0.5	44	0.4	44	0.4	35	0.2	—	—	—	—
2	2.375	3.25	1.8	2.00	1.3	3.75 @	1.4	1.38	1.0	4.38	2.5	2.75	1.8
50	60.3	83	0.8	51	0.6	95	0.6	35	0.5	111	1.1	70	0.8
2½	2.875	3.75	3.2	2.25	2.2	4.00 @	2.3	1.50	1.1	513	3.4	3.00	2.8
65	73.0	95	1.5	57	1.0	102	1.0	38	0.5	130	1.5	76	1.3
76.1 mm	3.000	3.75	3.7	2.25	3.4	2.24	—	1.50	—	—	—	—	—
	76.1	95	1.7	57	1.5	57	—	38	—	—	—	—	—
3	3.500	4.25	4.5	2.50	3.1	4.50 @	3.1	1.50	2.1	5.88	6.0	3.38	4.9
80	88.9	108	2.0	64	1.4	114	1.4	38	1.0	149	2.7	86	2.2
3¾	4.000	4.50	5.6	2.75	4.3	2.50 sw	4.0	1.75 sw	1.2	—	—	—	—
90	101.6	114	2.5	70	2.0	64	1.8	44	1.2	—	—	—	—
4	4.500	5.00	7.1	3.00	5.6	2.88	5.6	1.75	3.6	7.50	12.3	4.00	7.3
100	114.3	127	3.2	76	2.5	73	2.5	44	1.6	191	5.6	102	3.3
108.0 mm	4.250	5.00	11.0	3.00	5.6	—	—	—	—	—	—	—	—
	108.0	127	5.0	76	2.5	—	—	—	—	—	—	—	—
4½	5.000	5.25 sw	10.0	3.13 sw	6.0	3.50	6.6	1.88 sw	4.2	—	—	—	—
120	127.0	133	4.5	79	2.7	89	3.0	48	1.9	—	—	—	—
5	5.563	5.50	11.7	3.25	8.3	2.88 sw	7.8	2.00 sw	5.0	18.2	18.2	+	14.8
125	141.3	140	5.3	83	3.8	73	3.5	51	2.2	+	8.3	+	6.7
133.0 mm	5.250	5.50	11.7	3.25	8.3	—	—	—	—	—	—	—	—
	133.0	140	5.3	83	3.8	—	—	—	—	—	—	—	—
139.7 mm	5.500	5.50	11.7	3.25	8.3	2.87	—	2.00	—	—	—	—	—
	139.7	140	5.3	83	3.8	73	—	51	—	—	—	—	—
6	6.625	6.50	17.2	3.50	10.8	6.25 @	12.2	2.00	7.0	10.75	30.4	5.50	17.4
150	168.3	165	7.8	89	4.9	159	5.5	51	3.2	273	13.8	140	7.9
159.0 mm	6.250	6.50	18.6	3.50	10.8	—	—	—	—	—	—	—	—
	159.0	165	8.4	89	4.9	—	—	—	—	—	—	—	—
165.1 mm	6.500	6.50	15.5	3.50	9.8	3.13	11.4	2.00	7.4	10.75	29.0	5.50	19.0
	165.1	165	7.0	89	4.4	79	5.2	51	3.4	273	13.2	140	8.6

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

Grooved End Fittings

Size		No. 10 90° Elbow	No. 11 45° Elbow	No. 12 22½° Elbow (sw)	No. 13 11¼° Elbow (sw)	No. 100† 90° Long Radius Elbow (S)	No. 110† 45° Long Radius Elbow (S)
8	8.625	775	425	775 @	200	1425	725
200	2191	197	136	197	91	362	184
10	10750	900	63.3	4.38 sw	30.0	15.00	6.25
250	2730	229	28.7	111	13.6	381	159
12	12750	1000	740	4.88 sw	29.3	18.00	7.50
300	3239	254	33.6	124	18.1	457	191
14 #	14000	1400	136.0	5.00 sw	46.0	21.00 s	8.75 s
350	3556	355.6	61.7	127	20.9	533	222
377.0 mm †	14.843	14.84	149.3	—	—	—	—
16 #	16000	1600	171.0	5.00 sw	58.0	24.00 s	10.00 s
400	4064	406.4	77.6	127	26.3	610	254
426.0 mm †	16.772	16.77	198.6	—	—	—	—
18 #	18000	1800	228.0	5.50 sw	65.0	27.00 s	11.25 s
450	4570	457.2	103.4	140	29.5	686	286
480.0 mm †	18.898	18.90	291.0	—	—	—	—
20 #	20000	2000	298.0	6.00 sw	78.6	30.00 s	12.50 s
500	508.0	508.0	135.2	152	36.0	762	318
530.0 mm †	20.866	20.87	355.0	—	—	—	—
24 #	24000	2400	438.0	7.00 sw	140.0	36.00 s	15.00 s
600	610.0	609.6	198.7	178	63.5	914	381
630.0 mm †	24.803	24.80	545.0	—	—	—	—
14 - 24 350 - 600	630.0	630.0	247.2	—	—	—	—
AGS For AGS fitting information, see publication 20.05							

© Gooseneck design, end-to-end dimension

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† Chinese standard sizes

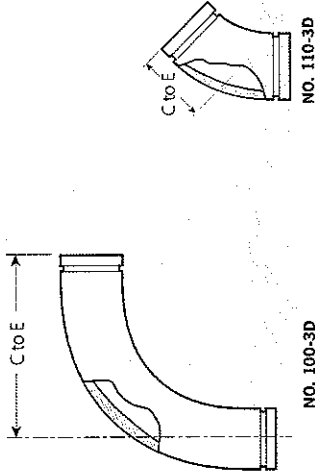
Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s". SW= Segmentally Welded. S= Carbon Steel

Grooved End Fittings

Long Radius Elbow 3D

With added wall thickness,
at bend for abrasive services.

NO. 100-3D 90° Long Radius Elbow 3D
NO. 110-3D 45° Long Radius Elbow 3D

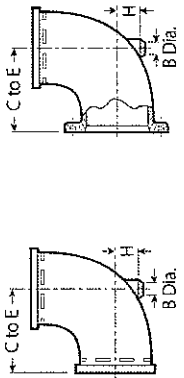


Size		Wall Thickness - Inches/mm				No. 100-3D 90° Long Radius Elbow		No. 110-3D 45° Long Radius Elbow	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	1st Non-optical Area	At Back Web Area	Extra	Close End Inches mm	Approx. Weight Each Lbs. Kg.	Close End Inches mm	Approx. Weight Each Lbs. Kg.	Close End Inches mm
2 50	2.375 60.3	0.184 4.67	0.309 7.85	0.125 3.18	10.00 254	5.0 2.3	6.50 165	4.7 2.1	
3 80	3.500 88.9	0.246 6.25	0.371 9.42	0.125 3.18	13.00 330	16.0 7.3	7.75 197	10.4 4.7	
4 100	4.500 114.3	0.267 6.78	0.455 11.56	0.188 4.78	16.00 406	25.5 11.6	9.00 229	17.2 7.8	
6 150	6.625 168.3	0.310 7.87	0.560 14.22	0.250 6.35	24.00 610	70.0 31.8	13.50 343	45.0 20.4	

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

Reducing Base Support Elbow

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



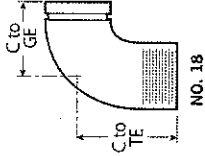
Size		No. R-10 Reducing Base Support Elbow				No. R-10G		No. R-10F	
Nominal Size Inches mm	Close End Inches mm	B Inches mm	B Inches mm	Flange Inches mm	Grv. x Flange Lbs. Kg.	Close End Inches mm	Approx. Weight Each	Close End Inches mm	Approx. Weight Each
6 150	4 100	9.00 229	1.25 32	1.50 38	19.0 8.6	19.0 8.6		33.0 15.0	
8 200	6 150	10.50 267	1.50 38	1.50 38	23.0 10.4	23.0 10.4		38.0 17.2	
10 250	8 200	12.00 305	2.13 54	1.50 38	33.0 15.0	33.0 15.0		52.0 23.6	
			2.40 61	1.50 38	61.0 27.7	61.0 27.7		88.0 39.9	

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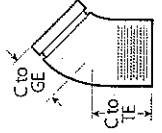
Grooved End Fittings

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 @			
¾		1,050	2,25		2,25	0.5		1,50	0.5
20		26.9	57		57	0.2		38	0.2
1		1,315	2,25		2,25	0.5			
25		33.7	57		57	0.2			
1¼		1,660	2,75		2,75	0.9			
32		42.4	70		70	0.4			
1½		1,900	2,75		2,75	1.1		1,75	0.9
40		48.3	70		70	0.5		44	0.4
2		2,375	3,25		4,25	2.5			
50		60.3	83		108	1.1			
2½		2,875	3,75		3,75	3.0		2,25	2.3
65		73.0	95		95	1.4		57	1.0
3		3,500	4,25		6,00	5.8		4,25	5.0
80		88.9	108		152	2.6		108	2.3
3½		4,000	4,50		6,25	8.0		5,25	8.8
90		101.6	114		159	3.6		133	4.0
6		6,625	6,50		6,50	17.6		3,50	12.7
150		168.3	165		165	8.0		89	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". SW= Segmentally Welded. S= Carbon Steel

Grooved End Fittings

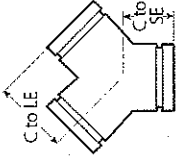
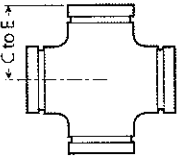
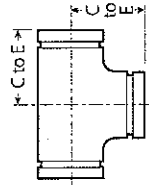
Tees, Crosses and True Wyes

NO. 20 Tee

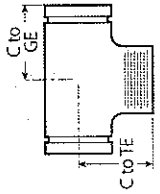
NO. 35 Cross

NO. 33 True Wye

NO. 29M Tee with Threaded Branch



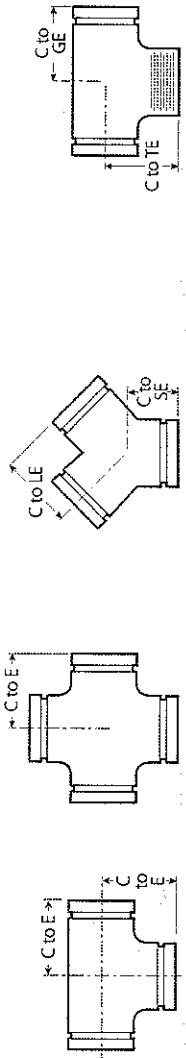
NO. 29M



Size		No. 20 Tee			No. 35 Cross (sw)			No. 33 True Wye (sw)			Tee with Threaded Branch		
Nominal Size Inches	Actual Outside Dia. Inches	C to E Inches	Approx. Weight Each Lbs.	G to E Inches	C to E Inches	Approx. Weight Each Lbs.	G to E Inches	C to SE Inches	Approx. Weight Each Lbs.	G to LE Inches	C to GE Inches	C to TE Inches	Approx. Weight Each Lbs.
¾	1.050	2.25	0.6	2.25	2.25	0.9	—	—	—	—	2.25	2.25	0.6
1	1.315	2.25	0.3	57	57	0.4	—	—	—	—	57	57	0.3
1 ¼	1.660	2.25	1.0	2.25	2.25	1.3	2.25	2.25	1.1	2.25	2.25	2.25	1.0
1 ½	1.900	2.25	0.5	57	57	0.6	57	57	0.5	57	57	57	0.5
2	2.375	2.75	1.5	2.75	2.75	2.1	2.75	2.50	1.5	2.75	2.75	2.75	1.5
2 ½	2.875	2.75	0.7	70	70	1.0	70	64	0.7	70	70	70	0.7
3	3.500	2.75	2.0	2.75	2.75	2.5	2.75	2.75	1.8	2.75	2.75	2.75	2.0
3 ½	3.937	2.75	0.9	70	70	1.1	70	70	0.8	70	70	70	0.9
4	4.500	3.25	3.0	3.25	3.25	3.8	3.25	2.75	2.5	3.25	3.25	4.25	3.00
4 ½	5.000	3.25	1.4	83	83	1.7	83	70	1.1	83	83	108	1.4
5	5.563	3.75	4.3	3.75	3.75	6.1	3.75	3.00	4.3	3.75	3.75	3.75	4.3
5 ½	6.063	3.75	2.0	95	95	2.8	95	76	2.0	95	95	95	2.0
6	6.625	3.75	5.2	—	—	—	—	—	—	—	3.75	3.75	5.2 (sw)
6 ½	7.125	4.25	2.4	—	—	—	—	—	—	—	95	95	2.4
7	7.687	4.25	6.8	4.25	4.25	10.5	4.25	3.25	6.1	4.25	4.25	6.00	6.8
7 ½	8.187	4.25	3.0	108	108	4.8	108	83	2.8	108	108	152	3.1
8	8.750	4.50 (sw)	7.9	4.50	4.50	11.5	4.50	3.50	9.6	4.50	4.50	4.50	7.9 (sw)
8 ½	9.250	4.50	3.6	114	114	5.2	114	89	4.4	114	114	114	7.9 (sw)
9	9.812	5.00	15.5	—	—	—	—	—	—	—	5.00	5.00	15.5
9 ½	10.312	5.00	7.0	—	—	—	—	—	—	—	127	127	7.0
10	10.875	5.00	11.9	5.00	5.00	15.8	5.00	3.75	10.0	5.00	5.00	7.25	11.9
10 ½	11.375	5.25 (sw)	5.4	5.25	5.25	7.2	5.25	95	4.5	5.25	5.25	184	5.4
11	11.937	5.25	6.8	133	133	8.4	—	—	—	—	133	133	6.8
11 ½	12.437	5.50	17.8	—	—	—	—	—	—	—	5.50	5.50	17.8
12	13.000	5.50	8.1	—	—	—	—	—	—	—	140	140	8.1
12 ½	13.500	5.50	17.8	—	—	—	—	—	—	—	140	140	17.8
13	14.063	5.50	8.1	—	—	—	—	—	—	—	140	140	8.1
13 ½	14.563	5.50	17.8	—	—	—	—	—	—	—	140	140	17.8
14	15.125	5.50	11.9	5.50	5.50	20.0	5.50	4.00	15.0	5.50	5.50	5.50	17.8 (sw)
14 ½	15.625	5.50	8.1	140	140	9.1	140	102	6.8	140	140	140	8.1
15	16.187	6.00	27.1	—	—	—	—	—	—	—	6.00	6.00	27.1
15 ½	16.687	6.00	12.3	165	165	—	—	—	—	—	165	165	12.3
16	17.250	6.50	22.0	—	—	28.0	—	—	—	—	6.50	6.50	22.0
16 ½	17.750	6.50	10.0	165	165	12.7	—	—	—	—	165	165	10.0
17	18.312	6.50	25.7	6.50	6.50	28.0	6.50	4.50	22.3	6.50	6.50	6.50	25.7 (sw)
17 ½	18.812	6.50	11.7	165	165	12.7	165	114	10.1	165	165	165	11.7
18	19.375	7.75	47.6	7.75	7.75	48.0	7.75	6.00	36.0	7.75	7.75	7.75	47.6 (sw)
18 ½	19.875	7.75	21.6	197	197	21.8	197	152	16.3	197	197	197	21.6
19	20.437	9.00	99.0	9.00	9.00	121.5	9.00	6.50	69.9	9.00	9.00	9.00	73.0
19 ½	20.937	9.00	44.9	229	229	55.1	229	155	31.7	229	229	229	33.1
20	21.500	10.00	133.0	10.00	10.00	110.0	10.00	7.00	80.0	10.00	10.00	10.00	99.0
20 ½	22.000	10.00	60.3	254	254	49.9	254	178	36.3	254	254	254	44.9

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

Grooved End Fittings



Size	No. 20 Tee		No. 35 Cross (sw)		No. 33 True Wye (sw)		No. 29M Tee with Threaded Branch	
14 #	14,000	11,00	145,0	11,00	198,0	11,00	134,2	—
350	355,6	279	65,8	279	89,8	279	60,8	—
377,0 mm	14,000	11,00	145,0	—	—	—	—	—
	355,6	279	65,8	—	—	—	—	—
16 #	16,000	12,00	186,0	12,00	250,0	12,00	167,0	—
400	406,4	305	84,4	305	113,4	305	75,7	—
426,0 mm †	16,000	12,00	186,0	—	—	—	—	—
	406,4	305	84,4	—	—	—	—	—
18 #	18,000	14,00	256,0	15,50	350,0	15,50	234,0	—
450	457,0	356	116,1	394	158,8	394	106,1	—
480,0 mm†	18,000	14,00	256,0	—	—	—	—	—
	457,0	356	116,1	—	—	—	—	—
20 #	20,000	15,00	339,0	17,25	452,0	17,25	281,0	—
500	508,0	381	153,8	438	205,0	438	127,5	—
530,0 mm †	20,000	15,00	339,0	—	—	—	—	—
	508,0	381	153,8	—	—	—	—	—
24 #	24,000	17,00	473,0	20,00	795,0	20,00	523,0	—
600	610,0	432	214,5	508	360,6	508	237,2	—
630,0 mm †	24,000	17,00	473,0	—	—	—	—	—
	610,0	432	214,5	—	—	—	—	—
14 - 24 350 - 600	AGS* For AGS fitting information, see publication 20.05							

For use on cut grooved systems only. 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". SW= Segmentally Welded. S= Carbon Steel

IMPORTANT NOTE:

Fittings size 26 - 48"/650 - 1050mm are available roll grooved for installation with Style 770 large diameter pipe couplings, Contact Victaulic for details.

www.victaulic.com

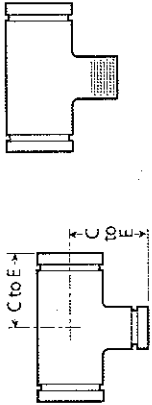
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REV_M

Grooved End Fittings

Reducing Tee

NO. 25 Grooved Branch
NO. 29T Threaded Branch



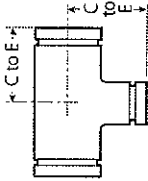
Size		No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size inches mm		C to E inches mm	C to E inches mm	Lbs. Kgs.
1 1/2	1 x 20	+	+	1.0 0.5
	1 1/4 x 32	+	+	1.3 0.6
	1 1/2 x 40	+	+	1.5 0.7
2	1 x 25	+	+	1.5 0.7
	1 1/4 x 32	+	+	1.7 0.8
	2 x 50	3.25 83	3.25 83	2.5 1.1
2 1/2	1 x 25	3.25 83	3.25 83	2.7 1.2
	1 1/4 x 32	+	+	1.8 0.8
	1 1/2 x 40	3.25 83	3.25 (sw) 83	3.0 1.4
3	1 x 25	+	+	3.9 1.8
	1 1/4 x 32	3.75 95	3.75 (sw) 95	3.8 1.7
	1 1/2 x 40	+	+	4.2 1.7
3 1/2	1 x 25	3.75 95	3.75 95	3.9 1.8
	1 1/4 x 32	3.75 95	3.75 (sw) 95	4.5 2.0
	2 x 50	3.75 95	3.75 (sw) 95	5.7 2.6
4	1 x 25	4.25 108	4.25 108	6.1 2.8
	1 1/4 x 32	+	+	8.0 3.6
	1 1/2 x 40	4.25 108	4.25 (sw) 108	6.5 2.9
4 1/2	1 x 25	4.25 108	4.25 (sw) 108	6.2 2.8
	1 1/4 x 32	4.25 108	4.25 (sw) 108	6.4 2.9
	2 x 50	4.25 108	4.25 (sw) 108	8.0 3.6
5	1 x 25	5.00 127	5.00 127	8.0 3.6
	1 1/4 x 32	+	+	7.8 3.5
	2 x 50	5.00 127	5.00 127	8.0 3.6

Grooved End Fittings

Reducing Tee

NO. 25 Grooved Branch
NO. 29T Threaded Branch

Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
6 150	6.50	6.50	26.5
6 150	165	165	12.0
6 150	165	165	25.0
6 150	165	165	11.3
6 150	165	165	23.2
6 150	165	165	10.5
6 150	165	165	24.0
6 150	165	165	10.9
6 150	165	165	25.0
6 150	165	165	11.3
6 150	165	165	33.0
6 150	165	165	15.0
6 150	165	165	33.5
6 150	165	165	15.2
6 150	165	165	39.0
6 150	165	165	17.7
6 150	165	165	33.6
6 150	165	165	15.2
6 150	165	165	41.8
6 150	165	165	19.0
6 150	165	165	34.0
6 150	165	165	15.4
6 150	165	165	42.3
6 150	165	165	19.2
6 150	165	165	48.0
6 150	165	165	21.8
6 150	165	165	62.0
6 150	165	165	28.1
6 150	165	165	62.0
6 150	165	165	28.1
6 150	165	165	62.4
6 150	165	165	28.3
6 150	165	165	60.0
6 150	165	165	27.2
6 150	165	165	61.0
6 150	165	165	27.7
6 150	165	165	52.0
6 150	165	165	23.6
6 150	165	165	59.0
6 150	165	165	26.8
6 150	165	165	64.7
6 150	165	165	29.3



Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
12 300	1	+	77.0
12 300	25	+	34.9
12 300	2	+	80.0
12 300	50	+	36.3
12 300	2 1/2	+	78.0
12 300	65	+	35.4
12 300	3	10.00 (sw)	82.0
12 300	80	10.00 (sw)	37.2
12 300	4	10.00 (sw)	80.0
12 300	100	10.00 (sw)	36.3
12 300	5	10.00 (sw)	75.0
12 300	125	10.00 (sw)	34.0
12 300	6	10.00 (sw)	75.0
12 300	150	10.00 (sw)	34.0
12 300	8	10.00 (sw)	80.0
12 300	200	10.00 (sw)	36.3
12 300	10	10.00 (sw)	84.0
12 300	250	10.00 (sw)	38.1
12 300	4	+	102.0
12 300	100	+	46.3
12 300	6	+	108.2
12 300	150	+	49.1
12 300	8	11.00	112.0
12 300	200	11.00	50.8
12 300	10	11.00	120.0
12 300	300	11.00	54.4
12 300	12	11.00	129.1
12 300	300	11.00	58.6
12 300	4	+	130.0
12 300	100	+	59.0
12 300	14 - 24	+	59.0
12 300	350 - 600	+	59.0

+ Contact Victaulic for details.

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

IMPORTANT NOTE:

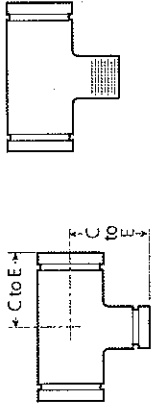
No. 29T Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

For use on cut grooved systems only. 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



Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size Inches Pound	C to E Inches Pound	C to E Inches Pound	Lbs Kg
# 16 400	6 150	+	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
	14 350	+	167.0 75.8
	18 450	+	194.0 88.0
# 18 450	6 150	+	200.0 90.7
	8 200	+	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	242.6 112.3
# 20 500	6 150	+	240.0 108.9
	8 200	+	244.0 110.7
	10 250	+	256.0 116.1
	12 300	+	264.0 119.8
	14 350	17.25 438	275.0 124.7

Size	No. 25 Std.	No. 29T w/ Thd. Branch	Approx. Weight Each
Nominal Size Inches Pound	C to E Inches Pound	C to E Inches Pound	Lbs Kg
# 20 500	16 400	—	288.6 130.9
	18 450	—	297.0 134.7
	20 500	20.00 508	340.0 154.2
# 24 600	8 200	20.00 508	343.9 156.0
	10 250	20.00 508	352.8 160.0
	12 300	20.00 508	360.0 163.3
	14 350	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".
SW= Segmentally Welded, S= Carbon Steel

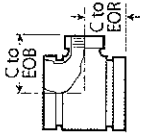
IMPORTANT NOTE:
No. 29T Threaded Outlet Reducing Tees are supplied NPT and are available with British Standard threads. For British Standard specify "BSP" clearly on order.

For use on cut grooved systems only. 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

Standpipe Tee
NO. 27

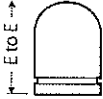


Size		No. 27 Standpipe Tee			
4	4	2 1/2	3.25	4.00	9.1
100	x 100	x 65	83	102	4.1
6	6	2 1/2	3.25	5.13	14.8
150	x 150	x 65	83	130	6.7

IMPORTANT NOTE:

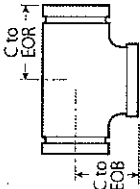
Available with British Standard Pipe Threads, specify "BSP" clearly on order.
Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".
SW= Segmentally Welded, S= Carbon Steel

Bull Plug
NO. 61



Size		No. 61 Bull Plug (S)	
2	2.375	4.00	2.5
50	60.3	102	1.1
2 1/2	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	168.3	254	7.7

Bullhead Tee
NO. 21



Size		No. 21 Bullhead Tee	
5	5	8	7.5
125	x 125	x 200	197
6	6	8	7.5
150	x 150	x 200	197

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

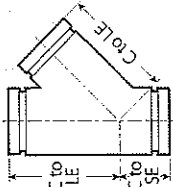
IMPORTANT NOTES:

Steel dish caps available through 24"/600mm, 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".
SW= Segmentally Welded, S= Carbon Steel

Grooved End Fittings

45° Lateral

NO. 30



NO. 30

Size			No. 30 45° Lateral (SW)		
Nominal Size Inches	Actual Outside Diameter Inches	C to LE Inches	C to SE Inches	Approx. Weight Each Lb.	Approx. Weight Each Kg.
¾	1.050	4.50	2.00	1.0	0.5
20	26.9	114	51	0.5	0.5
1	1.315	5.00	2.25	1.7	0.8
25	33.7	127	57	0.8	0.8
1¼	1.660	5.75	2.50	2.5 (d)	1.1
32	42.4	146	64	1.1	1.1
1½	1.900	6.25	2.75	3.5	1.6
40	48.3	159	70	1.6	1.6
2	2.375	7.00	2.75	4.6 (d)	2.1
50	60.3	178	70	2.1	2.1
2½	2.875	7.75	3.00	9.0	4.1
65	73.0	197	76	4.1	4.1
76.1 mm	3.000	8.50	3.25	11.0	5.0
3	76.1	216	83	5.0	5.0
80	3.500	8.50	3.25	11.7 (d)	5.4
3½	88.9	216	83	5.4	5.4
90	4.000	10.00	3.50	17.8	8.1
4	101.6	254	89	8.1	8.1
100	4.500	10.50	3.75	22.2 (d)	10.1
125	114.3	267	95	10.1	10.1
165.1 mm	5.563	12.50	4.00	21.8	9.9
	141.3	318	102	9.9	9.9
	6.500	14.00	4.50	43.6	19.8
	165.1	356	114	19.8	19.8

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

For use on cut grooved systems only. 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.

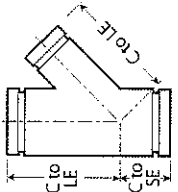
Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".

SW= Segmentally Welded, S= Carbon Steel

Grooved End Fittings

45° Reducing Lateral

NO. 30-R

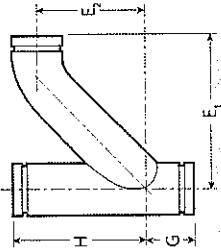


Size		No. 30-R 45° Reducing Lateral (SW)			No. 30-R	
3 80	3 x 80	2	8.50	3.25	9.8	
		50	216	83	4.4	
4 100	4 x 100	2½	8.50	3.25	9.8	
		65	216	83	4.4	
5 125	5 x 125	2	10.50	3.75	10.0	
		50	267	95	4.5	
6 150	6 x 150	2½	10.50	3.75	10.0	
		65	267	95	4.5	
8 200	8 x 200	3	10.50	3.75	18.3	
		80	267	95	8.3	
10 250	10 x 250	2	12.50	4.00	24.0	
		50	318	102	10.9	
12 300	12 x 300	3	12.50	4.00	27.0	
		80	318	102	212.2	
14 350	14 x 350	4	12.50	4.00	26.5	
		100	318	102	12.0	
16 400	16 x 400	3	14.00	4.50	37.0	
		80	356	114	16.8	
18 450	18 x 450	4	14.00	4.50	36.0	
		100	356	114	16.3	
20 500	20 x 500	5	14.00	4.50	44.7	
		125	356	114	20.3	
24 600	24 x 600	4	18.00	6.00	62.0	
		100	457	152	28.1	
28 700	28 x 700	5	18.00	6.00	75.5	
		125	457	152	34.2	
32 800	32 x 800	6	18.00	6.00	82.0	
		150	457	152	37.2	
36 900	36 x 900	10	20.50	6.50	104.8	
		250	521	165	147.5	
40 1000	40 x 1000	5	20.50	6.50	99.0	
		125	521	165	44.9	
44 1100	44 x 1100	6	20.50	6.50	105.8	
		150	521	165	48.0	
48 1200	48 x 1200	8	20.50	6.50	118.0	
		200	521	165	53.5	
52 1300	52 x 1300	5	23.00	7.00	122.0	
		125	584	178	55.3	
56 1400	56 x 1400	6	23.00	7.00	137.0	
		150	584	178	62.1	
60 1500	60 x 1500	8	23.00	7.00	147.0	
		200	584	178	66.7	
64 1600	64 x 1600	10	23.00	7.00	167.0	
		250	584	178	75.8	

Grooved End Fittings

Tee Wye

NO. 32



NO. 32

Size		No. 32 Tee Wye (SW)						Approx. Wt. Each
Nominal Size	Inches	G	H	E ₁	E ₂			Lbs.
2	2	2.75	700	9.00	4.63			6.4
50	50	70	178	229	118			2.9
2½	2½	3.00	775	10.50	5.75			11.5
65	65	76	197	267	146			5.2
3	3	3.25	850	11.50	6.50			14.3
80	80	83	216	292	165			6.5
3½	3½	3.25	1000	13.00	7.75			22.9
90	90	89	254	330	197			10.4
4	4	3.75	1050	13.63	8.13			26.0
100	100	95	267	346	207			11.8

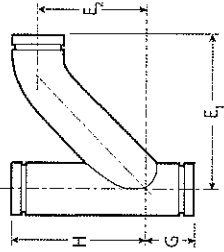
Size		No. 32 Tee Wye (SW)						Approx. Wt. Each
Nominal Size	Inches	G	H	E ₁	E ₂			Lbs.
5	5	5	1250	4.00	16.13			48.0
125	125	125	318	102	410			21.8
6	6	6	1400	4.50	18.25			60.5
150	150	150	356	114	464			27.4
8	8	8	1800	6.00	23.25			127.1
200	200	200	457	152	591			57.7
10	10	10	2050	6.50	27.25			190.0
250	250	250	521	165	692			186.2
12	12	12	2300	7.00	31.00			240.0
300	300	300	584	178	787			108.9

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

Grooved End Fittings

Reducing Tee Wye

NO. 32-R



NO. 32-R

Size		No. 32-R Reducing Tee Wye (SW)									
4	3	3	3.50	9.50	10.75	5.75	16.0				
100	4	80	89	241	273	146	7.3				
	4		3.75	10.50	13.63	8.13	16.0				
		100	95	267	346	206	7.3				
4	4	3	3.75	10.50	12.88	7.88	23.0				
100	4	80	95	267	327	200	10.4				
5	3	3	1.25	9.75	11.50	7.63	25.0				
125	3	80	32	248	292	194	11.3				
	5		4.00	12.50	16.13	11.13	43.4				
	125		102	318	410	283	19.5				
5	4	3	1.88	9.13	11.88	6.88	21.0				
125	4	80	48	232	302	175	9.5				
	4		1.88	9.13	12.75	7.25	25.0				
		100	48	232	324	184	11.3				
5	5	3	4.00	12.50	14.25	9.25	29.0				
125	5	80	102	318	362	235	13.2				
	4		4.00	12.50	15.13	9.63	36.7				
		100	102	318	384	245	16.6				
6	4	6	4.50	14.00	18.25	11.50	61.0				
150	4	150	114	356	464	292	27.7				
6	5	3	1.25	10.75	13.00	8.00	27.0				
150	5	80	32	273	330	203	12.2				
	4		1.25	10.75	13.88	8.38	31.0				
		100	32	273	352	213	14.1				
6	6	3	4.50	14.00	15.31	10.31	37.3				
150	6	80	114	356	389	262	16.9				
	4		4.50	14.00	16.25	10.75	46.3				
		100	114	356	413	273	21.0				
	5		4.50	14.00	17.25	11.13	55.0				
		125	114	356	438	283	24.9				

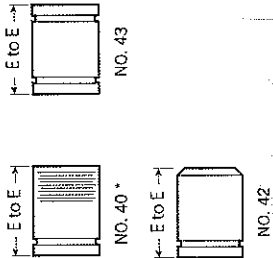
Size		No. 32-R Reducing Tee Wye (SW)									
8	6	4	1.00	12.00	14.75	9.25	45.0				
200	150	100	25	304	375	235	20.4				
	8		6.00	18.00	23.25	15.25	112.0				
		200	152	457	591	387	50.8				
8	8	3	6.00	18.00	18.19	13.19	76.0				
200	200	80	152	457	462	335	34.5				
	4		6.00	18.00	19.00	13.50	76.4				
		100	152	457	483	343	34.7				
	5		6.00	18.00	20.00	13.88	85.6				
		125	152	457	508	352	38.8				
	6		6.00	18.00	21.13	14.38	112.0				
		150	152	457	537	365	50.8				
10	10	3	6.50	20.50	19.88	14.88	96.0				
250	250	80	165	521	505	378	43.5				
	4		6.50	20.50	20.75	15.25	97.4				
		100	165	521	527	387	44.2				
	5		6.50	20.50	21.88	15.75	115.0				
		125	165	521	556	400	52.2				
10	10	6	6.50	20.50	22.88	16.13	133.1				
250	250	150	165	521	581	410	60.4				
	8		6.50	20.50	27.25	19.25	156.0				
		200	165	521	692	489	70.8				

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

Grooved End Fittings

Adapter Nipple

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



Size		No. 40, 42, 43 Adapter Nipple (s)		
Nominal Size Inches	Outside Diameter Inches	Actual Outside Diameter Inches	E to E Inches	Approx. Weight Lbs.
3/4	1.050	1.050	3.00	0.3
20	26.9	26.9	76	0.1
1	1.315	1.315	3.00	0.4
25	33.7	33.7	76	0.2
1 1/4	1.660	1.660	4.00	0.8
32	42.4	42.4	102	0.4
1 1/2	1.900	1.900	4.00	0.9
40	48.3	48.3	102	0.4
2	2.375	2.375	4.00	1.2
50	60.3	60.3	102	0.5
2 1/4	2.875	2.875	4.00	1.9
65	73.0	73.0	102	0.9
3	3.500	3.500	4.00	2.5
80	88.9	88.9	102	1.1
3 1/2	4.000	4.000	4.00	2.1
90	101.6	101.6	102	0.9
4	4.500	4.500	6.00	5.5
100	114.3	114.3	152	2.5
5	5.563	5.563	6.00	7.4
125	141.3	141.3	152	3.4

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

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

IMPORTANT NOTES:

For pump package nipples with 1 1/2" 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 - 300mm diameter - 8"/200mm minimum length required.

For use on cut grooved systems only. 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". SW= Segmentally Welded. S= Carbon Steel

Grooved End Fittings

Cap

NO. 60



Size		No. 60 Cap	
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
159.0 mm	6.250	1.00	6.8
	159.0	25	3.1
165.1 mm	6.500	1.00	7.3
	165.1	25	3.3

Size		No. 60 Cap	
6	6.625	1.00	6.1
150	168.3	25	2.8
8	8.625	1.19	13.1
200	219.1	30	5.9
10	10.750	1.25	21.0
250	273.0	32	9.5
12	12.750	1.25	35.6
300	323.9	32	16.2
14 # (s)	14.000	9.50	*
350	355.6	241	
16 # (s)	16.000	10.00	*
400	406.4	254	
18 # (s)	18.000	11.00	*
450	457.0	279	
20 # (s)	20.000	12.00	*
500	508.0	305	
24 # (s)	24.000	13.50	*
600	610.0	343	
14 - 24 350 - 600	4GS For AGS fitting information, see publication 20.05		

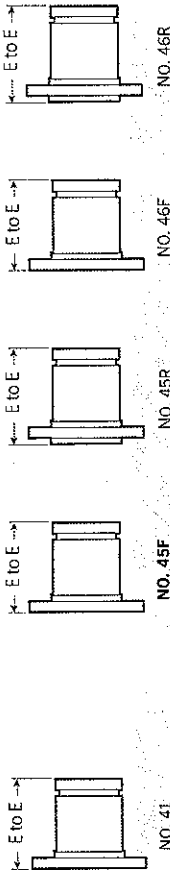
IMPORTANT NOTES:

* 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 use on cut grooved systems only. 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".
SW= Segmentally Welded. S= Carbon Steel

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



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	Actual Outside Diameter Inches	End Flange Inches	End Flange Inches	Approx. Weight Each Lbs.	E to E Inches	Approx. Weight Each Lbs.	E to E Inches	E to E Inches	Approx. Weight Each Lbs.	E to E Inches
3/4	1.050	3	76	—	3	2.3	3	3	3.3	3
20	26.9	76	—	—	76	1.0	76	76	1.5	76
1	1.315	3	76	2.5	3	2.7	3	3	3.9	3
25	33.7	76	—	1.1	76	1.2	76	76	1.8	76
1 1/4	1.660	4	102	3.0	4	3.3	4	4	4.8	4
32	42.4	102	—	1.4	102	1.5	102	102	2.2	102
1 1/2	1.900	4	102	3.5	4	3.9	4	4	6.9	4
40	48.3	102	—	1.6	102	1.8	102	102	3.1	102
2	2.375	4	102	5.5	4	6.2	4	4	8.2	4
50	60.3	102	—	2.5	102	2.8	102	102	3.7	102
2 1/2	2.875	4	102	8.0	4	9.9	4	4	11.9	4
65	73.0	102	—	3.6	102	4.5	102	102	5.4	102
3	3.500	4	102	9.5	4	11.4	4	4	16.5	4
80	88.9	102	—	4.3	102	5.2	102	102	7.5	102
3 1/2	4.00	4	102	12.0	4	15.1	4	4	20.1	4
90	101.6	102	—	5.4	102	6.8	102	102	9.1	102
4	4.500	6	152	16.7	6	18.4	6	6	27.4	6
100	114.3	152	—	7.6	152	8.3	152	152	12.4	152
5	5.563	6	152	21.5	6	21.3	6	6	35.3	6
125	141.3	152	—	9.8	152	9.7	152	152	16.0	152
6	6.625	6	152	26.5	6	27.5	6	6	47.5	6
150	168.3	152	—	12.0	152	12.5	152	152	21.5	152
8	8.625	6	152	39.0	6	41.3	6	6	70.3	6
200	219.1	152	—	17.7	152	18.8	152	152	31.9	152
10	10.750	8	203	57.0	8	59.8	8	8	100.8	8
250	273.0	203	—	25.9	203	27.1	203	203	45.7	203
12	12.750	8	203	41.0	8	88.2	8	8	146.2	8
300	323.9	203	—	18.6	203	40.0	203	203	66.3	203
14 #	14.000	8	203	—	8	+	8	8	+	8
350	355.6	203	—	—	203	+	203	203	+	203
16 #	16.000	8	203	—	8	+	8	8	+	8
400	406.4	203	—	—	203	+	203	203	+	203
18 #	18.000	8	203	—	8	+	8	8	+	8
450	457.0	203	—	—	203	+	203	203	+	203
20 #	20.000	8	203	—	8	+	8	8	+	8
500	508.0	203	—	—	203	+	203	203	+	203
24 #	24.000	8	203	—	8	+	8	8	+	8
600	610.0	203	—	—	203	+	203	203	+	203
14 - 24 350 - 600										

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 use on cut grooved systems only. 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". SW= Segmentally Welded, S= Carbon Steel

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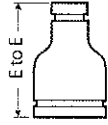
709

Swaged Nipple

NO. 53 Grv. x Grv.

NO. 54 Grv. x Thd.

NO. 55 Thd. x Grv.



NO. 53



NO. 55



NO. 54

Size	No. 53, 54 and 55 Swaged Nipples (S)			
2 50	1 25	6.50 165		2.0 09
	1 1/4 32	6.50 165		2.0 09
	1 1/2 40	6.50 165		2.0 09
2 1/2 65	1 25	7.00 178		3.0 14
	1 1/4 32	7.00 178		3.0 14
	1 1/2 40	7.00 178		3.0 14
	2 50	7.00 178		3.0 14
3 80	1 25	8.00 203		4.5 2.0
	1 1/4 32	8.00 203		4.5 2.0
	1 1/2 40	8.00 203		4.4 2.0
	2 50	8.00 203		4.5 2.0
	2 1/2 65	8.00 203		4.5 2.0
3 1/2 90	3 80	8.00 203		6.8 3.1
4 100	1 25	9.00 229		7.5 3.4
	1 1/4 32	9.00 229		7.5 3.4
	1 1/2 40	9.00 229		7.5 3.4
	2 50	9.00 229		7.5 3.4
4 100	2 1/2 65	9.00 229		7.5 3.4

Size		No. 53, 54 and 55 Swaged Nipples (S)	
4 100	3 80	900	75
	3½ 90	900	34
5 125	2 50	229	75
	3 80	229	34
6 150	4 100	1100	115
	5 125	279	52
7 175	6 150	1100	113
	7 175	279	51
8 200	8 200	1100	115
	9 225	279	52
9 225	10 250	1200	170
	11 275	305	77
10 250	12 300	1200	170
	13 325	305	77
11 275	14 350	1200	172
	15 375	305	78
12 300	16 400	1200	174
	17 425	305	79
13 325	18 450	1200	174
	19 475	305	79
14 350	20 500	1200	174
	21 525	305	79
15 375	22 550	1200	174
	23 575	305	79
16 400	24 600	1200	174
	25 625	305	79
17 425	26 650	1200	175
	27 675	305	79
18 450	28 700	1200	175
	29 725	305	79
19 475	30 750	1200	175
	31 775	305	79
20 500	32 800	1200	175
	33 825	305	79
21 525	34 850	1200	175
	35 875	305	79
22 550	36 900	1200	175
	37 925	305	79
23 575	38 950	1200	175
	39 975	305	79
24 600	40 1000	1200	175
	41 1025	305	79
25 625	42 1050	1200	175
	43 1075	305	79
26 650	44 1100	1200	175
	45 1125	305	79
27 675	46 1150	1200	175
	47 1175	305	79
28 700	48 1200	1200	175
	49 1225	305	79
29 725	50 1250	1200	175
	51 1275	305	79
30 750	52 1300	1200	175
	53 1325	305	79
31 775	54 1350	1200	175
	55 1375	305	79
32 800	56 1400	1200	175
	57 1425	305	79
33 825	58 1450	1200	175
	59 1475	305	79
34 850	60 1500	1200	175
	61 1525	305	79
35 875	62 1550	1200	175
	63 1575	305	79
36 900	64 1600	1200	175
	65 1625	305	79
37 925	66 1650	1200	175
	67 1675	305	79
38 950	68 1700	1200	175
	69 1725	305	79
39 975	70 1750	1200	175
	71 1775	305	79
40 1000	72 1800	1200	175
	73 1825	305	79
41 1025	74 1850	1200	175
	75 1875	305	79
42 1050	76 1900	1200	175
	77 1925	305	79
43 1075	78 1950	1200	175
	79 1975	305	79
44 1100	80 2000	1200	175
	81 2025	305	79
45 1125	82 2050	1200	175
	83 2075	305	79
46 1150	84 2100	1200	175
	85 2125	305	79
47 1175	86 2150	1200	175
	87 2175	305	79
48 1200	88 2200	1200	175
	89 2225	305	79
49 1225	90 2250	1200	175
	91 2275	305	79
50 1250	92 2300	1200	175
	93 2325	305	79
51 1275	94 2350	1200	175
	95 2375	305	79
52 1300	96 2400	1200	175
	97 2425	305	79
53 1325	98 2450	1200	175
	99 2475	305	79
54 1350	100 2500	1200	175
	101 2525	305	79
55 1375	102 2550	1200	175
	103 2575	305	79
56 1400	104 2600	1200	175
	105 2625	305	79
57 1425	106 2650	1200	175
	107 2675	305	79
58 1450	108 2700	1200	175
	109 2725	305	79
59 1475	110 2750	1200	175
	111 2775	305	79
60 1500	112 2800	1200	175
	113 2825	305	79
61 1525	114 2850	1200	175
	115 2875	305	79
62 1550	116 2900	1200	175
	117 2925	305	79
63 1575	118 2950	1200	175
	119 2975	305	79
64 1600	120 3000	1200	175
	121 3025	305	79
65 1625	122 3050	1200	175
	123 3075	305	79
66 1650	124 3100	1200	175
	125 3125	305	79
67 1675	126 3150	1200	175
	127 3175	305	79
68 1700	128 3200	1200	175
	129 3225	305	79
69 1725	130 3250	1200	175
	131 3275	305	79
70 1750	132 3300	1200	175
	133 3325	305	79
71 1775	134 3350	1200	175
	135 3375	305	79
72 1800	136 3400	1200	175
	137 3425	305	79
73 1825	138 3450	1200	175
	139 3475	305	79
74 1850	140 3500	1200	175
	141 3525	305	79
75 1875	142 3550	1200	175
	143 3575	305	79
76 1900	144 3600	1200	175
	145 3625	305	79
77 1925	146 3650	1200	175
	147 3675	305	79
78 1950	148 3700	1200	175
	149 3725	305	79
79 1975	150 3750	1200	175
	151 3775	305	79
80 2000	152 3800	1200	175
	153 3825	305	79
81 2025	154 3850	1200	175
	155 3875	305	79
82 2050	156 3900	1200	175
	157 3925	305	79
83 2075	158 3950	1200	175
	159 3975	305	79
84 2100	160 4000	1200	175
	161 4025	305	79
85 2125	162 4050	1200	175
	163 4075	305	79
86 2150	164 4100	1200	175
	165 4125	305	79
87 2175	166 4150	1200	175
	167 4175	305	79
88 2200	168 4200	1200	175
	169 4225	305	79
89 2225	170 4250	1200	175
	171 4275	305	79
90 2250	172 4300	1200	175
	173 4325	305	79
91 2275	174 4350	1200	175
	175 4375	305	79
92 2300	176 4400	1200	175
	177 4425	305	79
93 2325	178 4450	1200	175
	179 4475	305	79
94 2350	180 4500	1200	175
	181 4525	305	79
95 2375	182 4550	1200	175
	183 4575	305	79
96 2400	184 4600	1200	175
	185 4625	305	79
97 2425	186 4650	1200	175
	187 4675	305	79
98 2450	188 4700	1200	175
	189 4725	305	79
99 2475	190 4750	1200	175
	191 4775	305	79
100 2500	192 4800	1200	175
	193 4825	305	79
101 2525	194 4850	1200	175
	195 4875	305	79
102 2550	196 4900	1200	175
	197 4925	305	79
103 2575	198 4950	1200	175
	199 4975	305	79
104 2600	200 5000	1200	175
	201 5025	305	79
105 2625	202 5050	1200	175
	203 5075	305	79
106 2650	204 5100	1200	175
	205 5125	305	79
107 2675	206 5150	1200	175
	207 5175	305	79
108 2700	208 5200	1200	175
	209 5225	305	79
109 2725	210 5250	1200	175
	211 5275	305	79
110 2750	212 5300	1200	175
	213 5325	305	79
111 2775	214 5350	1200	175
	215 5375	305	79
112 2800	216 5400	1200	175
	217 5425	305	79
113 2825	218 5450	1200	175
	219 5475	305	79
114 2850	220 5500	1200	175
	221 5525	305	79
115 2875	222 5550	1200	175
	223 5575	305	79
116 2900	224 5600	1200	175
	225 5625	305	79
117 2925	226 5650	1200	175
	227 5675	305	79
118 2950	228 5700	1200	175
	229 5725	305	79
119 2975	230 5750	1200	175
	231 5775	305	79
120 3000	232 5800	1200	175
	233 5825	305	79
121 3025	234 5850	1200	175
	235 5875	305	79
122 3050	236 5900	1200	175
	237 5925	305	79
123 3075	238 5950	1200	175
	239 5975	305	79
124 3100	240 6000	1200	175
	241 6025	305	79
125 3125	242 6050	1200	175
	243 6075	305	79
126 3150	244 6100	1200	175
	245 6125	305	79
127 3175	246 6150	1200	175
	247 6175	305	79
128 3200	248 6200	1200	175
	249 6225	305	79
129 3225	250 6250	1200	175
	251 6275	305	79
130 3250	252 6300	1200	175
	253 6325	305	79
131 3275	254 6350	1200	175
	255 6375	305	79
132 3300	256 6400	1200	175
	257 6425	305	79
133 3325	258 6450	1200	175
	259 6475	305	79
134 3350	260 6500	1200	175
	261 6525	305	79
135 3375	262 6550	1200	175
	263 6575	305	79
136 3400	264 6600	1200	175
	265 6625	305	79
137 3425	266 6650	1200	175
	267 6675	305	79
138 3450	268 6700	1200	175
	269 6725	305	79
139 3475	270 6750	1200	175
	271 6775	305	79
140 3500	272 6800	1200	175
	273 6825	305	79
141 3525	274 6850	1200	175
	275 6875	305	79
142 3550	276 6900	1200	175
	277 6925	305	79
143 3575	278 6950	1200	175
	279 6975	305	79
144 3600	280 7000	1200	175
	281 7025	305	79
145 3625	282 7050	1200	175
	283 7075	305	79
146 3650	284 7100	1200	175
	285 7125	305	79
147 3675	286 7150	1200	175
	287 7175	305	79
148 3700	288 7200	1200	175
	289 7225	305	79
149 3725	290 7250	1200	175
	291 7275	305	79
150 3750	292 7300	1200	175
	293 7325	305	79
151 3775	294 7350	1200	175
	295 7375	305	79
152 3800	296 7400	1200	175

+ Contact Victaulic for details.

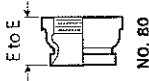
Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".

SW= Segmentally Welded. S= Carbon Steel

Grooved End Fittings

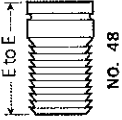
Female Threaded Adapter

NO. 80



Hose Nipple

NO. 48



Size			Female Threaded Adapter		
Nominal Size (Inches)	Actual Outside Diameter (Inches)	Actual Inside (Inches)	E to E (Inches)	Approx. Weight (Lbs)	Approx. Weight (Kg)
3/4	1.050		2.00	1.0	
20	26.9		51	0.5	
1	1.315		2.06	1.0	
25	33.7		52	0.5	
1 1/4	1.660		2.31 (sw)	1.5	
32	42.4		59	0.7	
1 1/2	1.900		2.31 (sw)	1.5	
40	48.3		59	0.7	
2	2.375		2.50	1.4	
50	60.3		64	0.6	
2 1/4	2.875		2.75	1.5	
65	73.0		70	0.7	
3	3.500		2.75	2.9	
80	88.9		70	1.3	
4	4.500		3.25	4.5	
100	114.3		83	2.0	

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

IMPORTANT NOTE:

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

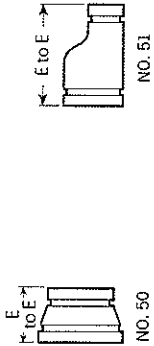
Size			Hose Nipple (s)		
Nominal Size (Inches)	Actual Outside Diameter (Inches)	Actual Inside (Inches)	Approx. Weight (Lbs)	Approx. Weight (Kg)	Approx. Weight (Lbs)
3/4	1.050		3.12	0.3	
20	26.9		79	0.1	
1	1.315		3.38	0.4	
25	33.7		86	0.2	
1 1/4	1.660		3.88	0.6	
32	42.4		98	0.3	
1 1/2	1.900		3.88	0.8	
40	48.3		98	0.4	
2	2.375		4.50	1.1	
50	60.3		114	0.5	
2 1/4	2.875		5.38	2.0	
65	73.0		137	0.9	
3	3.500		5.75	3.2	
80	88.9		146	1.5	
4	4.500		700	4.9	
100	114.3		178	2.2	
5	5.563		8.75	8.0	
125	141.3		222	3.6	
6	6.625		10.12	14.3	
150	168.3		257	6.5	
8	8.625		11.88	24.7	
200	219.1		302	11.2	
10	10.750		12.50	40.1	
250	273.0		318	18.2	
12	12.750		14.50	62.0	
300	323.9		368	28.1	

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

Grooved End Fittings

Concentric/Eccentric Reducer

NO. 50 Concentric
NO. 51 Eccentric



Size	No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
1 1/4 x 3/4 32	+	1.9	—	—
1 x 1 25	+	1.9	—	—
1 1/2 x 3/4 40	+	1.4	—	—
1 x 1 25	2.50 64	0.8 0.4	8.50 (SW) 216	4.5 2.0
1 1/2 x 3/4 40	2.50 64	1.0 0.5	—	—
2 x 1 50	2.50 64	0.9 0.3	9.00 (SW) 229	2.0 0.9
1 x 1 25	2.50 64	0.7 0.3	9.00 (SW) 229	2.3 1.0
1 1/4 x 3/4 32	2.50 64	1.2 0.5	9.00 (SW) 229	4.6 2.1
1 1/2 x 3/4 40	3.50 89	1.0 0.5	3.50 89	1.1 0.5
2 1/2 x 3/4 65	+	1.3 0.6	+	3.3 1.5
1 x 1 25	2.50 64	1.1 0.5	9.50 241	3.5 1.6
1 1/4 x 3/4 32	3.50 89	3.3 1.5	3.50 89	1.4 0.6
1 1/2 x 3/4 40	2.50 64	3.6 1.6	9.50 (SW) 241	3.7 1.7
2 x 1 50	2.50 64	3.9 1.8	9.50 (SW) 241	4.3 2.0
3 x 1 80	+	1.5 0.7	+	4.5 2.0
1 x 1 25	2.50 241	1.3 0.6	9.50 (SW) 241	4.8 2.2
1 1/4 x 3/4 32	2.50 64	1.4 0.6	+	4.8 2.2
1 1/2 x 3/4 40	2.50 64	5.1 2.3	9.50 (SW) 241	5.1 2.3
2 x 1 50	2.50 64	1.6 0.7	3.50 89	6.0 2.7
2 1/2 x 3/4 65	2.50 64	1.8 0.8	3.50 89	7.0 3.2
76.1	2.50 64	2.1 1.0	—	—

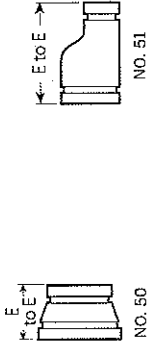
Size	No. 50 Concentric Reducer		No. 51 Eccentric Reducer	
3 1/2 x 3 90	2.50 64	2.0 0.9	9.50 (SW) 241	7.0 3.2
4 x 1 100	3.00 76	3.0 1.4	13.00 (SW) 330	6.5 2.9
1 1/4 x 3/4 32	+	4.6 2.1	—	—
1 1/2 x 3/4 40	3.00 (SW) 76	2.6 1.2	10.00 (SW) 254	8.1 3.7
2 x 1 50	3.00 76	2.4 1.1	4.00 102	3.3 1.5
2 1/2 x 3/4 65	3.00 76	2.7 1.2	4.00 102	3.4 1.5
3 x 1 80	3.00 76	3.2 1.4	4.00 102	3.5 1.6
3 1/2 x 3/4 90	3.00 76	2.9 1.3	10.00 (SW) 254	8.0 3.6
5 x 1 125	11.00 (SW) 279	9.0 4.1	11.00 (SW) 279	5.2 2.4
2 1/2 x 3/4 65	4.00 102	4.3 2.0	11.00 (SW) 279	10.8 4.9
3 x 1 80	4.00 102	5.5 2.5	11.00 (SW) 279	11.1 5.0
4 x 1 100	3.50 89	4.3 1.9	5.00 127	12.0 5.4
6 x 1 150	4.00 102	5.0 2.3	11.50 (SW) 292	14.5 6.6
1 1/2 x 3/4 40	+	5.5 2.5	+	+
2 x 1 50	4.00 102	6.6 3.0	11.50 (SW) 292	14.5 6.6
2 1/2 x 3/4 65	4.00 102	6.4 2.9	11.50 (SW) 292	14.2 6.4
3 x 1 80	4.00 102	6.4 2.9	5.50 140	15.0 6.8
4 x 1 100	4.00 102	6.5 2.9	5.50 140	17.0 7.7
5 x 1 125	4.00 102	6.4 2.9	5.50 140	17.0 7.7
8 x 1 200	16.00 406	7.9 3.6	12.00 (SW) 305	26.1 11.8
3 x 1 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".
SW= Segmentally Welded, S= Carbon Steel

Grooved End Fittings

Concentric/Eccentric Reducer

NO. 50 Concentric
NO. 51 Eccentric



Size	No. 50 Concentric Reducer			No. 51 Eccentric Reducer		
	Nominal Size Inches mm	End to End Inches mm	Approx. Weight Each Unit Lb. Kg.	End to End Inches mm	Approx. Weight Each Unit Lb. Kg.	
# 8 200	4	5.00	10.4	12.00 (SW)	23.0	
	100	127	4.8	305	10.4	
	5	5.00	11.6	12.00 (SW)	23.0	
	125	127	5.2	305	10.4	
# 10 250	6	5.00	11.9	6.00	24.0	
	150	127	5.4	152	10.9	
	4	6.00	19.7	13.00 (SW)	32.0	
	250	152	8.9	330	14.5	
# 12 300	5	+	34.3	+	34.6	
	125	+	15.6	+	15.7	
	6	6.00	20.0	13.00 (SW)	36.9	
	150	152	9.1	330	16.7	
# 14 350	8	6.00	22.0	7.00	21.6	
	200	152	10.0	178	9.8	
	4	+	44.0	14.00 (SW)	48.0	
	300	+	20.0	356	21.8	
# 16 400	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	
# 18 450	10	7.00	39.0	14.00 (SW)	57.0	
	250	178	17.7	356	25.9	
	6	13.00	65.0	13.00	60.0	
	350	330	29.5	330	27.2	
# 20 500	8	13.00	65.0	13.00	60.0	
	200	330	29.5	330	27.2	
	10	13.00	66.0	13.00	65.0	
	250	330	29.9	330	29.5	
# 24 600	12	13.00	68.0	13.00	66.0	
	300	330	30.8	330	29.9	
	16	14.00	73.0	14.00	73.0	
	400	356	33.1	355	33.1	
# 20 500	10 ½	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	
# 18 450	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	

Size	No. 50 Concentric Reducer			No. 51 Eccentric Reducer		
	Nominal Size Inches mm	End to End Inches mm	Approx. Weight Each Unit Lb. Kg.	End to End Inches mm	Approx. Weight Each Unit Lb. Kg.	
# 18 450	12	15.00	91.0	15.00	91.0	
	300	381	41.3	381	41.3	
	14	15.00	91.0	15.00	91.0	
	350	381	41.3	381	41.3	
# 20 500	16	15.00	91.0	15.00	91.0	
	400	381	41.3	381	41.3	
	10	20.00	110.0	20.00	177.0	
	250	508	49.9	508	80.3	
# 24 600	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	
	350	508	67.9	508	67.9	
# 24 600	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	
# 24 600	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	
# 24 600	14	20.00	162.0	20.00	162.0	
	350	508	73.5	508	73.5	
	16	20.00	162.0	20.00	162.0	
	400	508	73.5	508	73.5	
# 24 600	18	20.00	162.0	20.00	162.0	
	450	508	73.5	508	73.5	
	20	20.00	151.0	20.00	190.0	
	500	508	68.5	508	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".
SW= Segmentally Welded. S= Carbon Steel

IMPORTANT NOTE:
Steel eccentric reducers available through 307/750mm, contact Victaulic for dimensions.

For use on cut grooved systems only. 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.

VOLUME

Small Threaded Reducer

NO. 52



NO. 52



NO. 52F

Size	No. 52 Small Threaded Reducer	No. 52F Concentric Reducer with BSPT Female Threaded End
1½ × 40	1 25	2.50 64
	1½ 32	2.50 64
2 × 50	¾ 20	2.50 64
	1 25	2.50 64
	1½ 32	2.50 64
	1½ 40	2.50 64
2½ × 65	1 25	2.50 64
	1½ 32	2.50 (sw) 64
	1½ 40	2.50 (sw) 64
76.1 × 48.3	2 50	3.00 76
	60	63.5
3 × 80	¾ 20	3.50 80
	1 25	3.50 80
	1½ 32	3.50 80
	1½ 40	3.50 (sw) 80
	2 50	3.50 80
88.9 × 42.4	1 25	3.50 80
	1½ 32	3.50 80
	1½ 40	3.50 (sw) 80
	2 50	3.50 80
	2½ 65	3.50 80
88.9 × 48.3	1 25	3.50 80
	1½ 32	3.50 80
	1½ 40	3.50 (sw) 80
	2 50	3.50 80
	2½ 65	3.50 80
100 × 25	1 25	3.50 80
	1½ 32	3.50 80
	1½ 40	3.50 (sw) 80
	2 50	3.50 80
	2½ 65	3.50 80

Size	No. 52 Small Threaded Reducer	No. 52F Concentric Reducer with BSPT Female Threaded End
4 × 2½ 100 65	3.00 76	2.6 1.2
3 80	3.00 76	2.5 1.1
108 × 42.4 48.3 60	76.2 76.2	1.3 1.3
114.3 × 42.4 48.3 60	76.2 76.2	1.3 1.3
5 × 4 125 100	— +	— 4.5 2.0
133 × 60	—	114.3 217
139 × 60	—	114.3 226
6 × 1 150 25	4.00 102	5.5 2.5
2 50	4.00 102	5.7 2.6
2½ 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 × 42.4 48.3 60	114.3 114.3	2.2 2.2
165.1 × 42.4 48.3 60	101.6 101.6	2.4 2.6
8 × 2 200 50	16.00 406	1.5 0.7
2½ 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".
SW= Segmentally Welded. S= Carbon Steel

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 10/2009
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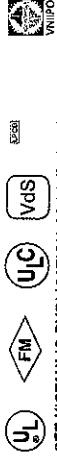
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07.01



Zero-Flex® Rigid Coupling

STYLE 07



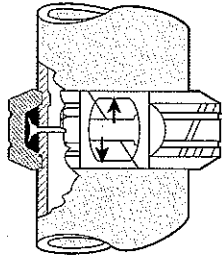
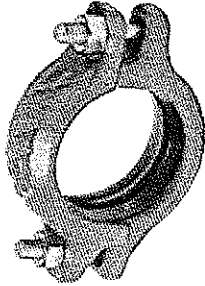
SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

The unique angle-pad design of the Zero-Flex® Style 07 coupling adjusts to standard pipe and roll or cut groove tolerances, positively clamping the pipe to resist flexural and torsional loads. The wider key section fills more of the groove area.

The Victaulic standard rigid coupling offering for grade "EHP" or "T" gaskets is the Style 107 installation-ready rigid coupling. For all available sizes, the Style 107 is the standard rigid coupling Victaulic supplies in North America for piping systems using Grade "EHP" or "T" gaskets. Contact Victaulic for further details.

Style 07 couplings are rated up to 750psi/5175kPa, dependant on size, for 1 – 12'25 – 300mm piping systems. Rigid couplings provide rigidity for valve connections, machinery rooms, fire mains, and long straight runs. Support and hanging requirements correspond to ASME B31.1 Power Piping Code, ASME B31.9 Building Services Code and NFPA 13 Sprinkler Systems. Angle-pad design permits assembly by removing one nut/bolt and scissoring housing over gasket. This reduces the number of components to handle during assembly, speeds and eases installation.

For 14 – 24"350 – 600mm sizes Victaulic offers the Advanced Groove System (AGS) line of products. Request publication 20.02 for information on the rigid W07 AGS coupling.



Exaggerated for clarity

MATERIAL SPECIFICATIONS

Housing: 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.

Housing Coating: Orange enamel.

- **Optional:** Hot dipped galvanized and others.

Coupling Gasket: (specify choice†)

- **Grade "E" EPDM**

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C.

Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" nitrile**

Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C.

Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

† Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

NOTE: Additional gasket styles are available. Contact Victaulic for details.

Bolts/Nuts: Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

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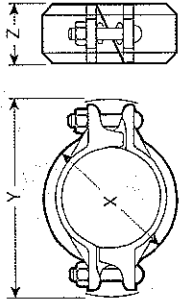


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DIMENSIONS



TYPICAL 1 - 12"

Size	Max. Work Pressure *	Max. End Load *	Allow. Pipe End Sep. †	Bolt/Nut@ No - Size	Dimensions - Inches/mm	Approx. Wgt. Each
Nominal Size Inches mm	PSI kgf	Lbs. N	Inches mm	Inches	Y Z X	Lbs. kgf
1	750	650	0.05	2 - 3/8 x 2	2.36 4.22 1.84	1.6
25	5175	2890	1.2		60 107 47	0.7
1 1/4	750	1620	0.05	2 - 3/8 x 2	2.69 4.62 1.84	1.6
32	5175	7210	1.2		68 117 47	0.7
1 1/2	750	2130	0.05	2 - 3/8 x 2	2.94 5.81 1.84	1.6
40	5175	9480	1.2		75 148 47	0.7
2	750	3320	0.07	2 - 1/2 x 2 1/2	3.35 5.78 1.84	2.3
50	5175	14775	1.7		85 147 47	1.0
2 1/2	750	4875	0.07	2 - 1/2 x 2 1/2	3.88 6.38 1.84	2.6
65	5175	21695	1.7		98 162 47	1.2
76.1 mm	750	5300	0.07	2 - 12 x 70.0	4.21 6.61 1.84	3.6
	5175	23585	1.7		107 168 47	1.6
3	750	7215	0.07	2 - 1/2 x 2 1/2	4.54 6.81 1.84	3.0
80	5175	32105	1.7		115 173 47	1.4
4	750	11925	0.16	2 - 1/2 x 2 1/2	5.81 8.21 2.07	5.3
100	5175	53065	4.1		148 209 53	2.4
108.0 mm	750	10635	0.16	2 - 12 x 70.0	5.56 7.98 2.07	5.2
	5175	47325	4.1		141 203 53	2.4
5	750	18225	0.16	2 - 3/4 x 3 1/4	7.03 9.89 2.07	7.4
125	5175	81100	4.1		179 251 53	3.4
133.0 mm	700	15145	0.16	2 - 16 x 82.5	6.69 9.60 2.07	7.4
	4825	67395	4.1		170 244 53	3.4
139.7 mm	700	16625	0.16	2 - 16 x 82.5	6.94 9.82 2.07	7.6
	4825	73980	4.1		176 249 53	3.4
6	700	24130	0.16	2 - 3/4 x 3 1/4	8.26 10.83 2.07	8.3
150	4825	107380	4.1		210 275 53	3.8
159.0 mm	700	21465	0.16	2 - 16 x 82.5	7.84 10.54 2.07	9.2
	4825	95520	4.1		199 268 53	4.2
165.1 mm	700	23225	0.16	2 - 3/4 x 3 1/4	8.13 10.84 2.07	8.3
	4825	103305	4.1		207 275 53	3.8
8 5/8	600	35000	0.19	2 - 3/4 x 4 1/4	10.54 13.74 2.51	15.1
200	4130	155750	4.8		268 349 64	6.8
10 5/8	500	45400	0.13	2 - 7/8 x 6 1/2	12.86 16.98 2.56	23.5
250	3450	202030	3.3		327 431 65	10.7
12 5/8	400	51000	0.13	2 - 7/8 x 6 1/2	14.86 18.88 2.56	28.2
300	2750	226950	3.3		377 480 65	12.8
14 - 24 350 - 600	24"3500	600 mm sizes	Request publication 20.02 for information on the rigid W07 AGS coupling.			

s Couplings 8, 10, 12"/200, 250, 300mm sizes available to JIS standard. Refer to section 06.17 for details.

* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard **roll** or **cut** grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown.

† For field installation only on roll grooved pipe or cut grooved pipe. Zero-Flex Style 07 couplings are essentially rigid and do not permit expansion/contraction.

@ Number of bolts required equals number of housing segments.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

Style 07 couplings must **not** be used to join PVC pipe.

CARBON STEEL PIPE - GROOVED COUPLINGS

06.02

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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.

For complete contact information, visit www.victaulic.com

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