

GRUVLOK FITTINGS FOR GROOVED-END PIPE

Gruvlok fittings are available through 24" nominal pipe size in a variety of styles. Use the Fitting Size Table to convert nominal pipe size to corresponding pipe O.D.

These fittings are designed to provide minimum pressure drop and uniform strength.

Depending on styles and size, Gruvlok fittings are provided in various materials including ductile iron, forged steel or fabricated steel.

Pressure ratings of Gruvlok standard fittings conform to those of Fig. 7001 Gruvlok coupling.

Not for use in copper systems.



Galvanized Gruvlok Fittings are NSF-61 and Low Lead Approved



For Listings/Approval Details and Limitations, visit our website at www.anvilint.com or contact an Anvil® Sales Representative.



FLOW DATA – FRICTIONAL RESISTANCE (EXPRESSED AS EQUIVALENT STRAIGHT PIPE)

Nom. Size	O.D.	Pipe Wall Thickness	Elbow		Tee	
			90°	45°	Branch	Run
In./DN(mm)	In./mm	In./mm	Ft./m	Ft./m	Ft./m	Ft./m
1 25	1.315 33.4	0.133 3.4	1.7 0.5	0.9 0.3	4.4 1.3	1.7 0.5
1¼ 32	1.660 42.2	0.140 3.6	2.3 0.7	1.2 0.4	5.8 1.8	2.3 0.7
1½ 40	1.900 48.3	0.145 3.7	2.7 0.8	1.3 0.4	6.7 2.0	2.7 0.8
2 50	2.375 60.3	0.154 3.9	3.4 1.0	1.7 0.5	8.6 2.6	3.4 1.0
2½ 65	2.875 73.0	0.203 5.2	4.1 1.2	2.1 0.6	10.3 3.1	4.1 1.2
3 O.D. 76.1	2.996 76.1	0.197 5.0	4.3 1.3	2.2 0.7	10.8 3.3	4.3 1.3
3 80	3.500 88.9	0.216 5.5	5.1 1.6	2.6 0.8	12.8 3.9	5.1 1.6
4¼ O.D. 108.0	4.250 108.0	0.220 5.6	6.4 2.0	3.2 1.0	16.1 4.9	6.4 2.0
4 100	4.500 114.3	0.237 6.0	6.7 2.0	3.4 1.0	16.8 5.1	6.7 2.0
5¼ O.D. 133.0	5.236 133.0	0.248 6.3	8.0 2.4	4.0 1.2	20.1 6.1	8.0 2.4
5½ O.D. 139.7	5.500 139.7	0.248 6.3	8.3 2.5	4.2 1.3	20.9 6.4	8.3 2.5
5 125	5.563 141.3	0.258 6.6	8.4 2.6	4.2 1.3	21.0 6.4	8.4 2.6
6¼ O.D. 159.0	6.259 159.0	0.280 7.1	9.7 3.0	4.9 1.5	24.3 7.4	9.7 3.0
6½ O.D. 165.1	6.500 165.1	0.280 7.1	10.0 3.0	5.0 1.5	24.9 7.6	10.0 3.0
6 150	6.625 168.3	0.280 7.1	10.1 3.1	5.1 1.6	25.3 7.7	10.1 3.1
8 200	8.625 219.1	0.322 8.2	13.3 4.1	6.7 2.0	33.3 10.1	13.3 4.1
10 250	10.750 273.1	0.365 9.3	16.7 5.1	8.4 2.6	41.8 12.7	16.7 5.1
12 300	12.750 323.9	0.375 9.5	20.0 6.1	10.0 3.0	50.0 15.2	20.0 6.1
14 350	14.000 355.6	0.375 9.5	22.2 6.8	17.7 5.4	64.2 19.6	22.9 7.0
16 400	16.000 406.4	0.375 9.5	25.5 7.8	20.4 6.2	73.9 22.5	26.4 8.0
18 450	18.000 457.2	0.375 9.5	28.9 8.8	23.1 7.0	87.2 26.6	31.1 9.5
20 500	20.000 508.0	0.375 9.5	32.2 9.8	25.7 7.8	97.3 29.7	34.8 10.6
24 600	24.000 609.6	0.375 9.5	38.9 11.9	31.1 9.5	113.0 34.4	40.4 12.3

For the reducing tee and branches, use the value that is corresponding to the branch size. For example: for 6" x 6" x 3" tee, the branch value of 3" is 12.8 ft (3.9).

MATERIAL SPECIFICATIONS

CAST FITTINGS:

Ductile iron conforming to ASTM A 536, Grade 65-45-12
Malleable iron conforming to ASTM A 47

FABRICATED FITTINGS:

1-6" Carbon steel, Schedule 40, conforming to ASTM A 53, Grade B
8-12" Carbon steel, Schedule 30, conforming to ASTM A 53, Grade B
14-24" Carbon steel, 0.375 wall, conforming to ASTM A 53, Grade B

COATINGS:

Rust inhibiting paint – Color: ORANGE (standard)
Hot Dipped Zinc Galvanized conforming to ASTM A 153 (optional)
Other Colors Available (IE: RAL3000 and RAL9000)

FITTING SIZE			
Nominal Size	O.D.	Nominal Size	O.D.
In./DN(mm)	In./mm	In./DN(mm)	In./mm
1 25	1.315 33.4	5 140	5.563 141.3
1¼ 32	1.660 42.4	6¼ O.D. 159.0	6.259 159.0
1½ 40	1.900 48.3	6½ O.D. 165.1	6.500 165.1
2 50	2.375 60.3	6 150	6.625 168.3
2½ 65	2.875 73.0	8 200	8.625 219.1
3 O.D. 76.1	2.996 76.1	10 250	10.750 273.0
3 80	3.500 88.9	12 300	12.750 323.9
3½ 90	4.000 101.6	14 350	14.000 355.6
4¼ O.D. 108.0	4.250 108.0	16 400	16.000 406.4
4 100	4.500 114.3	18 450	18.000 457.2
5¼ O.D. 133.0	5.236 133.0	20 500	20.000 508.0
5½ O.D. 139.7	5.500 139.7	24 600	24.000 609.6

The Fitting Size Chart is used to determine the O.D. of the pipe that the fittings is to be used with. Gruvlok Fittings are identified by either the Nominal size in inches or the Pipe O.D. in/mm.

FIG. 7050

90° Elbow*

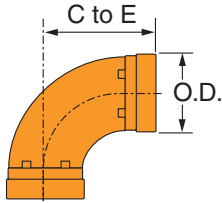


FIGURE 7050 90° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2¼ C	0.6
25	33.4	57	0.3
1¼	1.660	2¾ C	1.0
32	42.2	70	0.5
1½	1.900	2¾ C	1.2
40	48.3	70	0.5
2	2.375	3¼ C	1.7
50	60.3	83	0.8
2½	2.875	3¾ C	2.6
65	73.0	95	1.2
3 O.D.	2.996	4 C	3.6
76.1	76.1	102	1.6
3	3.500	4¼ C	4.0
80	88.9	108	1.8
3½	4.000	4½ C	5.5
90	101.6	114	2.5
4¼ O.D.	4.250	4¾ C	7.7
108.0	108.0	121	3.5
4	4.500	5 C	7.7
100	114.3	127	3.5
5¼ O.D.	5.236	5¼ C	10.4
133.0	133.0	133	4.7
5½ O.D.	5.500	5¼ C	10.9
139.7	139.7	133	4.9
5	5.563	5½ C	11.1
125	141.3	140	5.0
6¼ O.D.	6.259	6 C	15.2
159.0	159.0	152	6.9
6½ O.D.	6.500	6½ C	17.4
165.1	165.1	165	7.9
6	6.625	6½ C	16.5
150	168.3	165	7.5
8	8.625	7¼ C	30.6
200	219.1	197	13.9
10	10.750	9 C	53.5
250	273.1	229	24.3
12	12.750	10 C	82
300	323.9	254	37.2
14	14.000	21	169.0
350	355.6	533	76.7
16	16.000	24	222.0
400	406.4	610	100.7
18	18.000	27	280.0
450	457.2	686	127.0
20	20.000	30	344.0
500	508.0	762	156.0
24	24.000	36	490.0
600	609.6	914	222.3

FIG. 7051

45° Elbow*

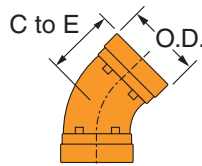


FIGURE 7051 45° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	1¾ C	0.5
25	33.4	44	0.2
1¼	1.660	1¾ C	0.7
32	42.2	44	0.3
1½	1.900	1¾ C	0.9
40	48.3	44	0.4
2	2.375	2 C	1.5
50	60.3	51	0.7
2½	2.875	2½ C	1.9
65	73.0	57	0.9
3 O.D.	2.996	2½ C	2.2
76.1	76.1	64	1.0
3	3.500	2½ C	3.3
80	88.9	64	1.5
3½	4.000	2¾ C	4.3
90	101.6	70	2.0
4¼ O.D.	4.250	2¾ C	4.4
108.0	108.0	83	2.0
4	4.500	3 C	5.4
100	114.3	76	2.4
5¼ O.D.	5.236	3¼ C	7.3
133.0	133.0	83	3.3
5½ O.D.	5.500	3¼ C	7.8
139.7	139.7	83	3.5
5	5.563	3¼ C	9.0
125	141.3	83	4.1
6¼ O.D.	6.259	3½ C	10.1
159.0	159.0	89	4.6
6½ O.D.	6.500	3½ C	11.1
165.1	165.1	89	5.0
6	6.625	3½ C	11.2
150	168.3	89	5.1
8	8.625	4¼ C	19.8
200	219.1	108	9.0
10	10.750	4¾ C	34.3
250	273.1	121	15.6
12	12.750	5¼ C	50.0
300	323.9	133	22.7
14	14.000	8¾	92.0
350	355.6	222	41.7
16	16.000	10	117.0
400	406.4	254	53.1
18	18.000	11¼	146.0
450	457.2	286	66.2
20	20.000	12½	179.0
500	508.0	317	81.2
24	24.000	15	255.0
600	609.6	381	115.7

FIG. 7052

22 ½° Elbow

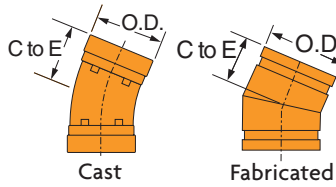


FIGURE 7052 22½° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	3¼	0.5
25	33.4	83	0.2
1¼	1.660	1¾	0.7
32	42.2	44	0.3
1½	1.900	1¾	0.8
40	48.3	44	0.4
2	2.375	1¾ C	1.5
50	60.3	48	0.7
2½	2.875	2	1.9
65	73.0	51	0.9
3	3.500	2¼ C	3.2
80	88.9	57	1.5
3½	4.000	2½	4.0
90	101.6	64	1.8
4	4.500	2¾ C	5.3
100	114.3	67	2.4
5	5.563	2¾	7.2
125	141.3	73	3.3
6	6.625	3½ C	8.2
150	168.3	79	3.7
8	8.625	3¾ C	17.8
200	219.1	98	8.1
10	10.750	4¾	30.0
250	273.1	111	13.6
12	12.750	4¾	40.4
300	323.9	124	18.3
14	14.000	5	46.0
350	355.6	127	20.9
16	16.000	5	52.2
400	406.4	127	23.7
18	18.000	5½	65.0
450	457.2	140	29.5
20	20.000	6	80.0
500	508.0	152	36.3
24	24.000	7	112.0
600	609.6	178	50.8

FIG. 7052i

22 ½° Elbow

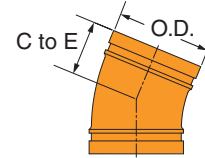


FIGURE 7052i 22½° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	1¾	0.5
25	33.4	41.28	0.227
1¼	1.675	1¾	1.0
32	42.2	44.45	0.454
1½	1.900	1¾	1.0
40	48.3	44.45	0.454
2	2.375	1¾	1.5
50	60.3	47.63	0.680
2½	2.875	2	2.0
65	73.0	50.8	0.907
3 O.D.	2.996	2	2.0
76.1	76.1	50.8	0.907
3	3.500	2¼	2.5
80	88.9	57.15	1.134
4	4.5	2¾	5.0
100	114.3	66.68	2.268
5½ O.D.	5.500	2¾	7.0
139.7	139.7	73.03	3.175
5	5.563	2¾	7.5
125	141.3	73.03	3.402
6½ O.D.	6.500	3¾	10.0
165.1	165.1	79.38	4.536
6	6.625	3¼	10.0
150	168.3	79.38	4.536
8	8.625	3¾	18.5
200	219.1	98.43	8.391
10	10.75	4¾	32.5
250	237.1	111.13	14.741
12	12.75	4¾	48.0
300	323.9	123.83	21.772

All 7052i fittings are cast ductile iron.

C - Cast ductile iron, all others are fabricated steel.

* 14"-24" Standard Radius 90° & 45° Elbows are 1 ½".

Center to end dimensions and weights may differ from those shown in chart, contact an Anvil Representative for more information.



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FIG. 7053

11 ¼° Elbow

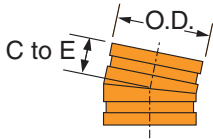


FIGURE 7053 11 ¼° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	1 3/8	0.3
25	33.4	35	0.1
1 1/4	1.660	1 3/8	0.5
32	42.2	35	0.2
1 1/2	1.900	1 3/8	0.7
40	48.3	35	0.3
2	2.375	1 3/8	0.9
50	60.3	35	0.4
2 1/2	2.875	1 1/2	1.5
65	73.0	38	0.7
3	3.500	1 1/2	2.0
80	88.9	38	0.9
3 1/2	4.000	1 3/4	2.8
90	101.6	44	1.3
4	4.500	1 3/4	3.3
100	114.3	44	1.5
5	5.563	2	5.0
125	141.3	51	2.3
6	6.625	2	6.5
150	168.3	51	2.9
8	8.625	2	10.0
200	219.1	51	4.5
10	10.750	2 1/8	14.5
250	273.1	54	6.6
12	12.750	2 1/4	18.7
300	323.9	57	8.5
14	14.000	3 1/2	32.1
350	355.6	89	14.6
16	16.000	4	42.0
400	406.4	102	19.1
18	18.000	4 1/2	53.2
450	457.2	114	24.1
20	20.000	5	65.7
500	508.0	127	29.8
24	24.000	6	96.0
600	609.6	152	43.5

FIG. 7050LR

90° Long Radius Elbow*

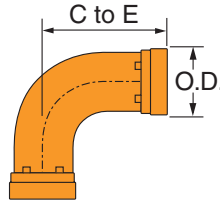


FIGURE 7050 LR LONG RADIUS 90° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	3 1/2	0.9
25	33.4	89	0.4
1 1/4	1.660	3 3/8	1.3
32	42.2	98	0.6
1 1/2	1.900	4 1/4	1.7
40	48.3	108	0.8
2	2.375	4 3/8	2.5
50	60.3	136	1.1
2 1/2	2.875	5 3/4	4.9
65	73.0	146	2.2
3	3.500	5 1/2	6.5
80	88.9	181	2.9
3 1/2	4.000	7 1/4	9.7
90	101.6	184	4.4
4	4.500	7 1/2	11.5
100	114.3	191	5.2
5	5.563	9 1/2	20.9
125	141.3	241	9.5
6	6.625	10 3/4	29.1
150	168.3	273	13.2
8	8.625	15	59.2
200	219.1	381	26.9
10	10.750	18	104.0
250	273.1	457	47.2
12	12.750	21	147.0
300	323.9	533	66.7
14	14.000	21	169.0
350	355.6	533	76.7
16	16.000	24	222.0
400	406.4	610	100.7
18	18.000	27	280.0
450	457.2	686	127.0
20	20.000	30	344.0
500	508.0	762	156.0
24	24.000	36	490.0
600	609.6	914	222.3

FIG. 7051LR

45° Long Radius Elbow*

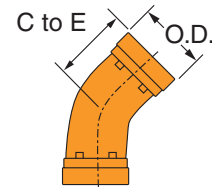


FIGURE 7051 LR LONG RADIUS 45° ELBOW*			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2 1/2	0.7
25	33.4	64	0.3
1 1/4	1.660	2 1/2	1.0
32	42.2	64	0.5
1 1/2	1.900	2 1/2	1.2
40	48.3	64	0.5
2	2.375	2 3/4	1.7
50	60.3	70	0.8
2 1/2	2.875	3	2.9
65	73.0	76	1.3
3	3.500	3 3/8	4.3
80	88.9	86	2.0
3 1/2	4.000	3 1/2	5.3
90	101.6	89	2.4
4	4.500	4	7.2
100	114.3	102	3.3
5	5.563	5	12.2
125	141.3	127	5.5
6	6.625	5 1/2	17.4
150	168.3	140	7.9
8	8.625	7 1/4	34.0
200	219.1	184	15.4
10	10.750	8 1/2	57.4
250	273.1	216	26.0
12	12.750	10	82.6
300	323.9	254	37.5
14	14.000	8 3/4	92.0
350	355.6	222	41.7
16	16.000	10	117.0
400	406.4	254	53.1
18	18.000	11 1/4	146.0
450	457.2	286	66.2
20	20.000	12 1/2	179.0
500	508.0	317	81.2
24	24.000	15	255.0
600	609.6	381	115.7

C - Cast ductile iron, all others are fabricated steel.

* 14"-24" Standard Radius 90° & 45° Elbows are 1 1/2".

Center to end dimensions and weights may differ from those shown in chart, Contact an Anvil Representative for more information.



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FIG. 7063

Tee w/ Threaded Branch

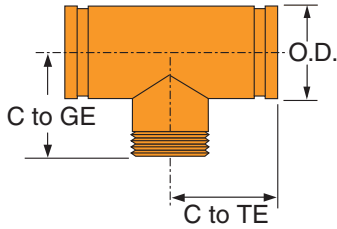


FIG. 7061

Reducing Tee Standard

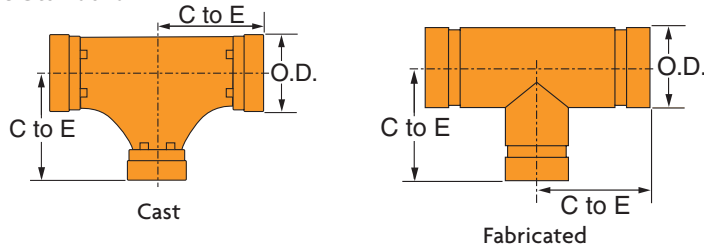


FIGURE 7063 TEE WITH THREADED BRANCH				
Nominal Size	O.D.	C to GE	C to TE	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315	2 1/4	2 1/4	0.9
25	33.4	57	57	0.4
1 1/4	1.660	2 3/4	2 3/4	1.4
32	42.2	70	70	0.6
1 1/2	1.900	2 3/4	2 3/4	1.7
40	48.3	70	70	0.8
2	2.375	3 1/4	4 1/4	2.9
50	60.3	83	108	1.3
2 1/2	2.875	3 3/4	3 3/4	4.7
65	73.0	95	95	2.1
3	3.500	4 1/4	6	8.1
80	88.9	108	152	3.7
3 1/2	4.000	4 1/2	4 1/2	8.8
90	101.6	114	114	4.0
4	4.500	5	7 1/4	13.5
100	114.3	127	184	6.1
5	5.563	5 1/2	5 1/2	16.7
125	140	140	140	7.6
6	6.625	6 1/2	6 1/2	25.6
150	168.3	165	165	11.6
8	8.625	7 3/4	7 3/4	45.0
200	219.1	197	197	20.4
10	10.750	9	9	73.0
250	273.1	229	229	33.1
12	12.750	10	10	98.0
300	323.9	254	254	44.5

FIGURE 7061 STANDARD REDUCING TEE								
Nominal Size	Center to End	Approx. Wt. Ea.	Nominal Size	Center to End	Approx. Wt. Ea.	Nominal Size	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg
1 1/4 x 1 1/4 x 1	2 3/4	1.5	6 x 6 x 2 1/2	6 1/2 C	26.5	14 x 14 x 8	11	103
32 x 32 x 25	70	0.7	150 x 150 x 65	165	12.0	350 x 350 x 200	279	46.7
1 1/2 x 1 1/2 x 1	2 3/4	1.8	6 x 6 x 3	6 1/2 C	26.5	14 x 14 x 10	11	104
40 x 40 x 25	70	0.8	150 x 150 x 80	165	12.0	350 x 350 x 250	279	47.2
1 1/2 x 1 1/2 x 1 1/4	2 3/4	1.8	6 x 6 x 4	6 1/2 C	26.5	14 x 14 x 12	11	105
40 x 40 x 32	70	0.8	150 x 150 x 100	165	12.0	350 x 350 x 300	279	47.6
2 x 2 x 1	3 3/4 C	2.6	6 x 6 x 5	6 1/2 C	28.0	16 x 16 x 4	12	126
50 x 50 x 25	83	1.2	150 x 150 x 125	165	12.7	400 x 400 x 100	305	57.2
2 x 2 x 1 1/4	3 3/4	1.7	8 x 8 x 1 1/2	7 3/4	33.0	16 x 16 x 6	12	127
50 x 50 x 32	83	0.8	200 x 200 x 40	197	15.0	400 x 400 x 150	305	57.6
2 x 2 x 1 1/2	3 3/4 C	2.7	8 x 8 x 2	7 3/4	32.7	16 x 16 x 8	12	128
50 x 50 x 40	83	1.2	200 x 200 x 50	197	14.8	400 x 400 x 200	305	58.1
2 1/2 x 2 1/2 x 1	3 3/4	4.1	8 x 8 x 2 1/2	7 3/4	33.0	16 x 16 x 10	12	129
65 x 65 x 25	95	1.9	200 x 200 x 65	197	15.0	400 x 400 x 250	305	58.5
2 1/2 x 2 1/2 x 1 1/4	3 3/4	4.2	8 x 8 x 3	7 3/4	33.5	16 x 16 x 12	12	130
65 x 65 x 32	95	1.9	200 x 200 x 80	197	15.2	400 x 400 x 300	305	59.0
2 1/2 x 2 1/2 x 1 1/2	3 3/4	4.3	8 x 8 x 4	7 3/4 C	50.0	16 x 16 x 14	12	132
65 x 65 x 40	95	2.0	200 x 200 x 100	197	22.7	400 x 400 x 350	305	59.9
2 1/2 x 2 1/2 x 2	3 3/4	4.4	8 x 8 x 5	7 3/4	34.7	18 x 18 x 4	15 1/2	188
65 x 65 x 50	95	2.0	200 x 200 x 125	197	15.7	450 x 450 x 100	394	85.3
3 x 3 x 1	4 1/4 C	7.0	8 x 8 x 6	7 3/4 C	54.0	18 x 18 x 6	15 1/2	190
80 x 80 x 25	108	3.2	200 x 200 x 150	197	24.5	450 x 450 x 150	394	86.2
3 x 3 x 1 1/4	4 1/4	5.8	10 x 10 x 1 1/2	9	52.0	18 x 18 x 8	15 1/2	192
80 x 80 x 32	108	2.6	250 x 250 x 40	229	23.6	450 x 450 x 200	394	87.1
3 x 3 x 1 1/2	4 1/4	5.9	10 x 10 x 2	9	52.2	18 x 18 x 10	15 1/2	194
80 x 80 x 40	108	2.7	250 x 250 x 50	229	23.7	450 x 450 x 250	394	88.0
3 x 3 x 2	4 1/4 C	5.5	10 x 10 x 2 1/2	9	52.6	18 x 18 x 12	15 1/2	196
80 x 80 x 50	108	2.5	250 x 250 x 65	229	23.9	450 x 450 x 300	394	88.9
3 x 3 x 2 1/2	4 1/4	6.3	10 x 10 x 3	9	53.0	18 x 18 x 14	15 1/2	201
80 x 80 x 65	108	2.9	250 x 250 x 80	229	24.0	450 x 450 x 350	394	91.2
4 x 4 x 1	3 3/4	7.0	10 x 10 x 4	9	53.6	18 x 18 x 16	15 1/2	203
100 x 100 x 25	95	3.2	250 x 250 x 100	229	24.3	450 x 450 x 400	394	92.1
4 x 4 x 1 1/4	5	9.6	10 x 10 x 5	9	54.2	20 x 20 x 6	17 1/4	240
100 x 100 x 32	127	4.4	250 x 250 x 125	229	24.6	500 x 500 x 150	438	108.9
4 x 4 x 1 1/2	5	10.2	10 x 10 x 6	9	55.0	20 x 20 x 8	17 1/4	242
100 x 100 x 40	127	4.6	250 x 250 x 150	229	24.9	500 x 500 x 200	438	109.8
4 x 4 x 2	5 C	10.2	10 x 10 x 8	9	64.7	20 x 20 x 10	17 1/4	244
100 x 100 x 50	127	4.6	250 x 250 x 200	229	29.3	500 x 500 x 250	438	110.7
4 x 4 x 2 1/2	5 C	11.2	12 x 12 x 1	10	77.0	20 x 20 x 12	17 1/4	246
100 x 100 x 65	127	5.1	300 x 300 x 25	254	34.9	500 x 500 x 300	438	111.6
4 x 4 x 3	5 C	11.4	12 x 12 x 2	10	80.0	20 x 20 x 14	17 1/4	248
100 x 100 x 80	127	5.2	300 x 300 x 50	254	36.3	500 x 500 x 350	438	112.5
5 x 5 x 1	5 1/2	13.6	12 x 12 x 2 1/2	10	78.0	20 x 20 x 16	17 1/4	250
125 x 125 x 25	140	6.2	300 x 300 x 65	254	35.4	500 x 500 x 400	438	113.4
5 x 5 x 1 1/2	5 1/2	13.8	12 x 12 x 3	10	74.6	20 x 20 x 18	17 1/4	252
125 x 125 x 40	140	6.3	300 x 300 x 80	254	33.8	500 x 500 x 450	438	114.3
5 x 5 x 2	5 1/2	14	12 x 12 x 4	10	75.1	24 x 24 x 8	20	327
125 x 125 x 50	140	6.4	300 x 300 x 100	254	34.1	600 x 600 x 200	508	148.3
5 x 5 x 2 1/2	5 1/2	14.3	12 x 12 x 5	10	75.6	24 x 24 x 10	20	330
125 x 125 x 65	140	6.5	300 x 300 x 125	254	34.3	600 x 600 x 250	508	149.7
5 x 5 x 3	5 1/2	14.6	12 x 12 x 6	10	76.2	24 x 24 x 12	20	334
125 x 125 x 80	140	6.6	300 x 300 x 150	254	34.6	600 x 600 x 300	508	151.5
5 x 5 x 4	5 1/2 C	17.9	12 x 12 x 8	10	76.3	24 x 24 x 14	20	340
125 x 125 x 100	140	8.1	300 x 300 x 200	254	34.6	600 x 600 x 350	508	154.2
6 x 6 x 1	6 1/2	20.5	12 x 12 x 10	10	77.6	24 x 24 x 16	20	342
150 x 150 x 25	165	9.3	300 x 300 x 250	254	35.2	600 x 600 x 400	508	155.1
6 x 6 x 1 1/2	6 1/2	21.0	14 x 14 x 4	11	100.0	24 x 24 x 18	20	345
150 x 150 x 40	165	9.5	350 x 350 x 100	279	45.4	600 x 600 x 450	508	156.5
6 x 6 x 2	6 1/2 C	26.4	14 x 14 x 6	11	101	24 x 24 x 20	20	347
150 x 150 x 50	165	12.0	350 x 350 x 150	279	45.8	600 x 600 x 500	508	157.4

Center to end dimensions and weights may differ from those shown in chart, contact an Anvil Representative for more information.
See Fitting Size chart on page 59 for O.D.



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C - Cast ductile iron, all others are fabricated steel.

FIG. 7064

Reducing Tee w/ Threaded Branch

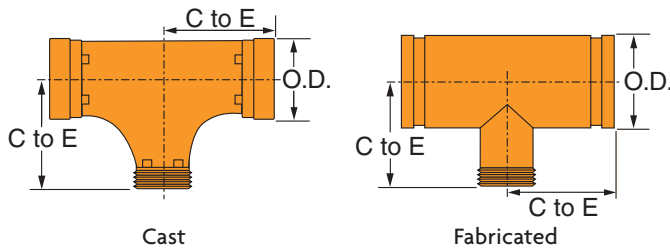


FIGURE 7064 REDUCING TEE WITH THREADED BRANCH

Nominal Size	Center to End	Approx. Wt. Ea.	Nominal Size	Center to End	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>Lbs/Kg</i>	<i>In./DN(mm)</i>	<i>In./mm</i>	<i>Lbs/Kg</i>
2 x 2 x ¾	3¼	1.6	8 x 8 x 4	7¾	50.0
50 x 50 x 20	83	0.7	200 x 200 x 100	197	22.7
2 x 2 x 1	3¼ C	2.6	8 x 8 x 5	7¾	41.0
50 x 50 x 25	83	1.2	200 x 200 x 125	197	18.6
2 x 2 x 1¼	3¼	1.7	8 x 8 x 6	7¾	54.0
50 x 50 x 32	83	0.8	200 x 200 x 150	197	24.5
2 x 2 x 1½	3¼ C	2.7	10 x 10 x 2	9	61.8
50 x 50 x 40	83	1.2	250 x 250 x 50	229	28.0
2½ x 2½ x 1	3¾	4.1	10 x 10 x 3	9	63.0
65 x 65 x 25	95	1.9	250 x 250 x 80	229	28.6
2½ x 2½ x 1½	3¾	4.3	10 x 10 x 4	9	64.0
65 x 65 x 40	95	2	250 x 250 x 100	229	29.0
2½ x 2½ x 2	3¾	4.4	10 x 10 x 5	9	65.1
65 x 65 x 50	95	2	250 x 250 x 125	229	29.5
3 x 3 x ¾	4¼	5.7	10 x 10 x 6	9	55.0
80 x 80 x 20	108	2.6	250 x 250 x 150	229	24.9
3 x 3 x 1	4¼ C	7.0	10 x 10 x 8	9	64.7
80 x 80 x 25	108	3.2	250 x 250 x 200	229	29.3
3 x 3 x 1½	4¼	5.3	12 x 12 x 3	10	84.9
80 x 80 x 40	108	2.4	300 x 300 x 80	254	38.5
3 x 3 x 2	4¼	5.5	12 x 12 x 4	10	85.8
80 x 80 x 50	108	2.5	300 x 300 x 100	254	38.9
3 x 3 x 2½	4¼	5.8	12 x 12 x 5	10	87.0
80 x 80 x 65	108	2.6	300 x 300 x 125	254	39.5
4 x 4 x ¾	3¾	7.2	12 x 12 x 6	10	88.3
100 x 100 x 20	95	3.3	300 x 300 x 150	254	40.1
4 x 4 x 1	3¾	7.0	12 x 12 x 8	10	91.2
100 x 100 x 25	95	3.2	300 x 300 x 200	254	41.4
4 x 4 x 1½	5	9.2	12 x 12 x 10	10	94.8
100 x 100 x 40	127	4.2	300 x 300 x 250	254	43.0
4 x 4 x 2	5	10.2	14 x 14 x 8	11	110.0
100 x 100 x 50	127	4.6	350 x 350 x 200	279	49.7
4 x 4 x 2½	5	11.2	14 x 14 x 10	11	114.0
100 x 100 x 65	127	5.1	350 x 350 x 250	279	51.5
4 x 4 x 3	5	11.4	14 x 14 x 12	11	117.0
100 x 100 x 80	127	5.2	350 x 350 x 300	279	52.8
5 x 5 x 2	5½	14.5	16 x 16 x 8	12	135.0
125 x 125 x 50	140	6.6	400 x 400 x 200	305	61.2
5 x 5 x 3	5½	16.1	16 x 16 x 10	12	139.0
125 x 125 x 80	140	7.3	400 x 400 x 250	305	63.0
5 x 5 x 4	5½	17.9	16 x 16 x 12	12	142.0
125 x 125 x 100	140	8.1	400 x 400 x 300	305	64.4
6 x 6 x 2	6½	26.4	18 x 18 x 10	15½	204.0
150 x 150 x 50	165	12	450 x 450 x 250	394	92.5
6 x 6 x 2½	6½	26.5	18 x 18 x 12	15½	209.0
150 x 150 x 65	165	12	450 x 450 x 300	394	94.8
6 x 6 x 3	6½	26.5	18 x 18 x 14	15½	211.0
150 x 150 x 80	165	12	450 x 450 x 350	0	95.7
6 x 6 x 4	6½	26.5	18 x 18 x 16	15½	216.0
150 x 150 x 100	165	12	450 x 450 x 400	0	98.0
6 x 6 x 5	6½	28.0	24 x 24 x 8	20	334.0
150 x 150 x 125	165	12.7	600 x 600 x 200	508	152
8 x 8 x 2	7¾	37.5	24 x 24 x 10	20	342.0
200 x 200 x 50	197	17	600 x 600 x 250	508	155
8 x 8 x 3	7¾	38.7	24 x 24 x 12	20	349.0
200 x 200 x 80	197	17.6	600 x 600 x 300	508	158

C - Cast ductile iron, all others are fabricated steel.
See Fitting Size chart on page 59 for O.D.

FIG. 7060

Tee

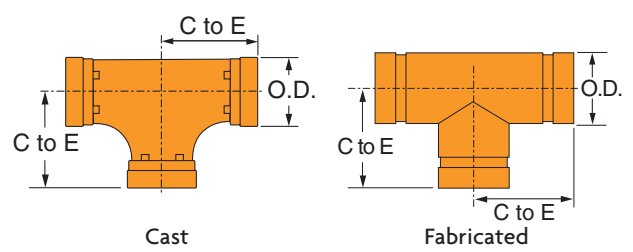


FIGURE 7060 - TEE

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1	1.315	2¼ C	0.9
25	33.4	57	0.4
1¼	1.660	2¾ C	1.5
32	42.2	70	0.7
1½	1.900	2¾ C	1.8
40	48.3	70	0.8
2	2.375	3¼ C	2.4
50	60.3	83	1.1
2½	2.875	3¾ C	4.0
65	73.0	95	1.8
3 O.D.	2.996	4 C	4.6
76.1	76.1	101	2.1
3	3.500	4¼ C	5.8
80	88.9	108	2.6
3½	4.000	4½ C	9.8
90	101.6	114	4.4
4¼ O.D.	4.250	4¾ C	9.3
108.0	108.0	121	4.2
4	4.500	5 C	10.3
100	114.3	127	4.7
5¼ O.D.	5.236	5¼ C	14.1
133.0	133.0	133	6.4
5½ O.D.	5.500	5½ C	16.1
139.7	139.7	140	7.3
5	5.563	5½ C	16.2
125	141.3	140	7.3
6¼ O.D.	6.259	6 C	20.8
159.0	159.0	152	9.4
6½ O.D.	6.500	6½ C	24.4
165.1	165.1	165	11.1
6	6.625	6½ C	25.7
150	168.3	165	11.7
8	8.625	7¾ C	41.1
200	219.1	197	18.6
10	10.750	9 C	74.5
250	273.1	229	33.8
12	12.750	10 C	94.7
300	323.9	254	43.0
14	14.000	11	118.0
350	355.6	279	53.5
16	16.000	12	146.0
400	406.4	305	66.2
18	18.000	15½	218.0
450	457.2	394	98.9
20	20.000	17¼	275.0
500	508.0	438	125
24	24.000	20	379.0
600	609.6	508	172



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FIG. 7076

Gr x Thd

Concentric Reducers

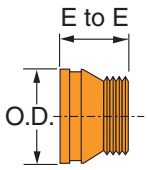


FIG. 7073 & FIG. 7097

Eccentric Reducers

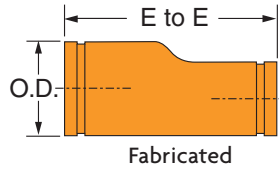


Fig. 7073– Gr. x Gr.

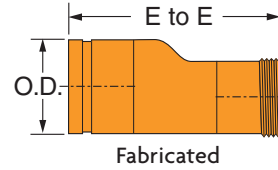


Fig. 7097 – Gr. x Thd.

FIGURE 7076 – CONCENTRIC REDUCER GROOVE BY THREAD

Nominal Size	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg
1½ x 1	2½	0.6
40 x 25	64	0.3
2 x ¾	2½	1.0
50 x 80	64	0.5
2 x 1	2½	0.8
50 x 25	64	0.4
2 x 1¼	2½	1.3
50 x 32	64	0.6
2 x 1½	2½	1.3
50 x 40	64	0.6
2½ x 1	2½	1.0
65 x 25	64	0.5
2½ x 1¼	2½	1.0
65 x 32	64	0.5
2½ x 1½	2½	1.3
65 x 40	64	0.6
2½ x 2	2½	1.2
65 x 50	64	0.5
3 x ¾	2½	1.2
80 x 80	64	0.5
3 x 1	2½	1.2
80 x 25	64	0.5
3 x 1½	2½	1.3
80 x 40	64	0.6
3 x 2	2½	1.3
80 x 50	64	0.6
3 x 2½	2½	1.5
80 x 65	64	0.7
3½ x 3	3	1.8
90 x 80	76	0.8
4 x 1	3	2.2
100 x 25	76	1.0
4 x 1½	3	2.3
100 x 40	76	1.0
4 x 2	3	2.3
100 x 50	76	1.0
4 x 2½	3	2.3
100 x 65	76	1.0
4 x 3	3	2.6
100 x 80	76	1.2
4 x 3½	3	2.5
100 x 90	76	1.1
5 x 4	3½	4.5
125 x 100	89	2.0
6 x 1	4	6.0
150 x 25	102	2.7
6 x 2	4	6.0
150 x 50	102	2.7
6 x 3	4	6.0
150 x 80	102	2.7
6 x 4	4	5.9
150 x 100	102	2.7
6 x 5	4	5.8
150 x 125	102	2.6

All are Fabricated Steel.
See Fitting Size chart on page 59 for O.D.

FIGURE 7073 & 7097 ECCENTRIC REDUCER

Nominal Size	End to End	Approx. Wt. Ea.	Nominal Size	End to End	Approx. Wt. Ea.	Nominal Size	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg
1¼ x 1	8½	1.5	4 x 3½	10	8.5	14 x 6	13	78
32 x 25	216	0.7	100 x 90	254	3.9	350 x 150	330	35.4
1½ x ¾	8½	1.6	5 x 2	11	9.3	14 x 8	13	80
40 x 20	216	0.7	125 x 50	279	4.2	350 x 200	330	36.3
1½ x 1	8½	1.7	5 x 2½	11	9.9	14 x 10	13	84
40 x 25	216	0.8	125 x 65	279	4.5	350 x 250	330	38.1
1½ x 1¼	8½	4.5	5 x 3	11	10.7	14 x 12	13	88
40 x 32	216	2.0	125 x 80	279	4.9	350 x 300	330	39.9
2 x ¾	9	2.1	5 x 4	11	11.9	16 x 8	14	91
50 x 80	229	1.0	125 x 100	279	5.4	400 x 200	356	41.3
2 x 1	9	2.2	6 x 1	11½	12.0	16 x 10	14	96
50 x 25	229	1.0	150 x 25	292	5.4	400 x 250	356	43.5
2 x 1¼	9	2.4	6 x 1½	11½	12.1	16 x 12	14	99
50 x 32	229	1.1	150 x 40	292	5.5	400 x 300	356	44.9
2 x 1½	9	2.5	6 x 2	11½	12.2	16 x 14	14	104
50 x 40	229	1.1	150 x 50	292	5.5	400 x 350	356	47.2
2½ x 1	9½	3.2	6 x 2½	11½	12.8	18 x 10	15	110
65 x 25	241	1.5	150 x 65	292	5.8	450 x 250	381	49.9
2½ x 1¼	9½	3.4	6 x 3	11½	13.6	18 x 12	15	113
65 x 32	241	1.5	150 x 80	292	6.2	450 x 300	381	51.3
2½ x 1½	9½	3.6	6 x 4	11½	14.9	18 x 14	15	117
65 x 40	241	1.6	150 x 100	292	6.8	450 x 350	381	53.1
2½ x 2	9½	4.0	6 x 5	11½	16.2	18 x 16	15	121
65 x 50	241	1.8	150 x 125	292	7.3	450 x 400	381	54.9
3 x 1	9½	4.0	8 x 3	12	17.9	20 x 10	20	145
80 x 25	241	1.8	200 x 80	305	8.1	500 x 250	508	65.8
3 x 1¼	9½	4.3	8 x 4	12	19.7	20 x 12	20	149
80 x 32	241	2.0	200 x 100	305	8.9	500 x 300	508	67.6
3 x 1½	9½	4.5	8 x 5	12	21.4	20 x 14	20	152
80 x 40	241	2.0	200 x 125	305	9.7	500 x 350	508	68.9
3 x 2	9½	4.8	8 x 6	12	23.2	20 x 16	20	156
80 x 50	241	2.2	200 x 150	305	10.5	500 x 400	508	70.8
3 x 2½	9½	5.6	10 x 4	13	29.7	20 x 18	20	160
80 x 65	241	2.5	250 x 100	330	13.5	500 x 450	508	72.6
3½ x 3	9½	6.6	10 x 5	13	31.7	24 x 10	20	174
90 x 80	241	3.0	250 x 125	330	14.4	600 x 250	508	78.9
4 x 1	10	5.9	10 x 6	13	34.0	24 x 12	20	179
100 x 25	254	2.7	250 x 150	330	15.4	600 x 300	508	81.2
4 x 1¼	10	6.3	10 x 8	13	34.4	24 x 14	20	184
100 x 32	254	2.9	250 x 200	330	15.6	600 x 350	508	83.5
4 x 1½	10	6.4	12 x 4	14	44.8	24 x 16	20	189
100 x 40	254	2.9	300 x 100	356	20.3	600 x 400	508	85.7
4 x 2	10	6.7	12 x 6	14	45.2	24 x 18	20	194
100 x 50	254	3.0	300 x 150	356	20.5	600 x 450	508	88
4 x 2½	10	7.3	12 x 8	14	47.7	24 x 20	20	199
100 x 65	254	3.3	300 x 200	356	21.6	600 x 500	508	90.3
4 x 3	10	7.9	12 x 10	14	52.0			
100 x 80	254	3.6	300 x 250	356	23.6			

Fabricated Steel *Figure 7097 is available in sizes 1¼ x 1 through 12 x 10.
Center to end dimensions may differ from those shown above. Contact an Anvil Representative for more information.
See Fitting Size chart on page 59 for O.D.



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FIG. 7077, FIG. 7078 & FIG. 7079

Swaged Nipples

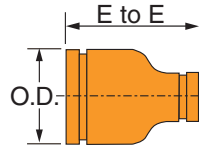


Fig. 7077
Gr x Gr

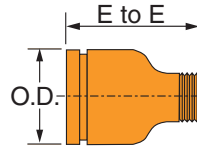


Fig. 7078
Gr x Thd

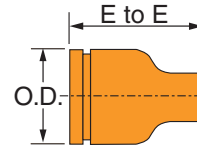


Fig. 7079
Gr x Bev

FIGURE 7077, 7078 & 7079 SWAGED NIPPLES

Nominal Size	End to End	Approx. Wt. Ea.	Nominal Size	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./Kg	In./DN(mm)	In./mm	Lbs./Kg
2 x 1 50 x 25	6½ C 165	2.0 0.9	4 x 2½ 100 x 65	9 229	8.0 3.6
2 x 1¼ 50 x 32	6½ 165	2.0 0.9	4 x 3 100 x 80	9 229	8.0 3.6
2 x 1½ 50 x 40	6½ 165	2.0 0.9	4 x 3½ 100 x 90	9 229	8.0 3.6
2½ x 1 65 x 25	7 178	3.5 1.6	5 x 2 125 x 50	11 279	12.0 5.4
2½ x 1¼ 65 x 32	7 178	3.5 1.6	5 x 2½ 125 x 65	11 279	12.0 5.4
2½ x 1½ 65 x 40	7 178	3.5 1.6	5 x 3 125 x 80	11 279	12.0 5.4
2½ x 2 65 x 50	7 178	3.5 1.6	5 x 4 125 x 100	11 279	12.0 5.4
3 x 1 80 x 25	8 203	5.0 2.3	6 x 1 150 x 25	12 305	19.0 8.6
3 x 1¼ 80 x 32	8 203	5.0 2.3	6 x 1¼ 150 x 32	12 305	19.0 8.6
3 x 1½ 80 x 40	8 203	5.0 2.3	6 x 1½ 150 x 40	12 305	19.0 8.6
3 x 2 80 x 50	8 203	5.0 2.3	6 x 2 150 x 50	12 305	19.0 8.6
3 x 2½ 80 x 65	8 203	5.0 2.3	6 x 2½ 150 x 65	12 305	19.0 8.6
3½ x 3 90 x 80	8 203	7.0 3.2	6 x 3 150 x 80	12 305	19.0 8.6
4 x 1 100 x 25	9 229	8.0 3.6	6 x 3½ 150 x 90	12 305	17.0 7.7
4 x 1¼ 100 x 32	9 229	8.0 3.6	6 x 4 150 x 100	12 305	19.0 8.6
4 x 1½ 100 x 40	9 229	8.0 3.6	6 x 5 150 x 125	12 305	19.0 8.6
4 x 2 100 x 50	9 229	8.0 3.6			

This product is not ULC Listed.
See Fitting Size chart on page 59 for O.D.



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FIG. 7072 – Gr x Gr Concentric Reducer

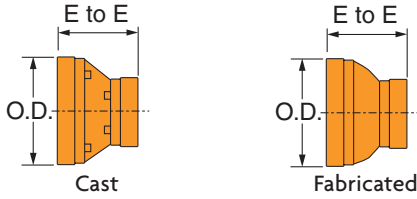


FIG. 7072i – Gr x Gr Concentric Reducer

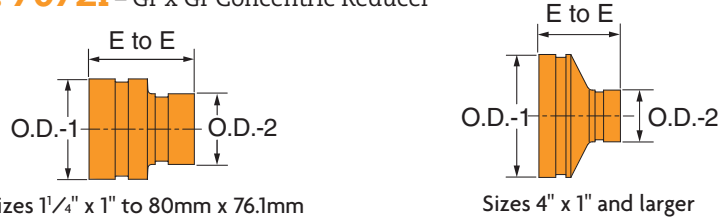


FIGURE 7072 CONCENTRIC REDUCER

Nominal Size	End to End	Approx. Wt. Ea.	Nominal Size	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs/Kg	In./DN(mm)	In./mm	Lbs/Kg
1 1/4 x 1 32 x 25	2 1/2 64	0.6 0.3	8 x 4 200 x 100	5 C 127	9.0 4.1
1 1/2 x 1 40 x 25	2 1/2 64	0.6 0.3	8 x 5 200 x 125	5 127	11.5 5.2
1 1/2 x 1 1/4 40 x 32	2 1/2 64	0.6 0.3	8 x 6 200 x 150	5 C 127	10.6 4.8
2 x 1 50 x 25	2 1/2 64	0.8 0.4	10 x 4 250 x 100	6 152	20 9.1
2 x 1 1/4 50 x 32	2 1/2 C 64	1.3 0.6	10 x 5 250 x 125	6 152	20 9.1
2 x 1 1/2 50 x 40	2 1/2 C 64	1.3 0.6	10 x 6 250 x 150	6 C 152	20 9.1
2 1/2 x 1 65 x 25	2 1/2 64	1.0 0.5	10 x 8 250 x 200	6 152	23.9 10.8
2 1/2 x 1 1/4 65 x 32	2 1/2 64	1.0 0.5	12 x 4 300 x 100	7 178	25 11.3
2 1/2 x 1 1/2 65 x 40	2 1/2 64	1.3 0.6	12 x 6 300 x 150	7 178	29 13.2
2 1/2 x 2 65 x 50	2 1/2 C 64	1.6 0.7	12 x 8 300 x 200	7 178	29 13.2
3 x 1 80 x 25	2 1/2 64	1.2 0.5	12 x 10 300 x 250	7 178	32.4 14.7
3 x 1 1/4 80 x 32	2 1/2 64	1.3 0.6	14 x 6 350 x 150	13 330	54.3 24.6
3 x 1 1/2 80 x 40	2 1/2 64	1.3 0.6	14 x 8 350 x 200	13 330	54.5 24.7
3 x 2 80 x 50	2 1/2 C 64	1.4 0.6	14 x 10 350 x 250	13 330	55.7 25.3
3 x 2 1/2 80 x 65	2 1/2 C 64	1.5 0.7	14 x 12 350 x 300	13 330	57.3 26.0
3 1/2 x 3 90 x 80	3 76	1.8 0.8	16 x 8 400 x 200	14 356	65.4 29.7
4 x 1 100 x 25	3 76	2.2 1.0	16 x 10 400 x 250	14 356	66.7 30.3
4 x 1 1/4 100 x 32	3 76	2.2 1.0	16 x 12 400 x 300	14 356	68.1 30.9
4 x 1 1/2 100 x 40	3 76	2.3 1.0	18 x 10 450 x 250	15 381	71.0 32.2
4 x 2 100 x 50	3 C 76	2.4 1.1	18 x 12 450 x 300	15 381	82.3 37.3
4 x 2 1/2 100 x 65	3 C 76	2.6 1.2	18 x 15 450 x 350	15 381	83.6 37.9
4 x 3 100 x 80	3 C 76	3.2 1.5	18 x 18 450 x 400	15 381	86.2 39.1
4 x 3 1/2 100 x 90	3 76	3.6 1.6	18 x 16 450 x 450	15 381	87.2 39.6
5 x 2 125 x 50	3 1/2 89	4.6 2.1	20 x 10 500 x 250	20 508	123.0 55.8
5 x 2 1/2 125 x 65	3 1/2 89	4.5 2.0	20 x 12 500 x 300	20 508	125.0 56.7
5 x 3 125 x 80	3 1/2 89	4.4 2.0	20 x 14 500 x 350	20 508	129.0 58.5
5 x 4 125 x 100	3 1/2 C 89	4.5 2.0	20 x 16 500 x 400	20 508	131.0 59.4
6 x 1 150 x 25	4 102	6.8 3.1	20 x 18 500 x 450	20 508	133.0 60.3
6 x 1 1/2 150 x 40	4 102	6.9 3.1	24 x 10 600 x 250	20 508	147.0 66.7
6 x 2 150 x 50	4 C 102	6.0 2.7	24 x 12 600 x 300	20 508	149.0 67.6
6 x 2 1/2 150 x 65	4 102	6.0 2.7	24 x 14 600 x 350	20 508	152.0 68.9
6 x 3 150 x 80	4 C 102	5.4 2.4	24 x 16 600 x 400	20 508	153.0 69.4
6 x 4 150 x 100	4 C 102	5.6 2.5	24 x 18 600 x 450	20 508	154.0 69.9
6 x 5 150 x 125	4 C 102	6.0 2.7	24 x 20 600 x 500	20 508	155.0 70.3
8 x 3 200 x 80	5 127	12.0 5.5			

C - Cast ductile iron, all others are fabricated steel.

FIGURE 7072i CONCENTRIC REDUCER

Nominal Size	O.D.	End to End	Approx. Wt. Ea.	Nominal Size	O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs/Kg	In./DN(mm)	In./mm	In./mm	Lbs/Kg
1 1/4 x 1 32 x 25	1.660 x 1.315 42.2 x 33.4	2 1/2 63.5	0.5 0.227	5 1/2 O.D. x 3 139.7 x 80	5.500 x 3.500 139.7 x 88.9	3 1/2 88.9	4.0 1.814
1 1/2 x 1 40 x 25	1.900 x 1.315 48.3 x 33.4	2 1/2 63.5	0.5 0.227	5 1/2 O.D. x 4 139.7 x 100	5.500 x 4.500 139.7 x 114.3	3 1/2 88.9	4.0 1.814
1 1/2 x 1 1/4 40 x 32	1.900 x 1.660 48.3 x 42.2	2 1/2 63.5	1.0 .454	5 x 2 125 x 50	5.563 x 2.375 141.3 x 60.3	3 1/2 88.9	4.0 1.814
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.4	2 1/2 63.5	1.0 .454	5 x 2 1/2 125 x 65	5.563 x 2.875 141.3 x 73.0	3 1/2 88.9	4.0 1.814
2 x 1 1/4 50 x 32	2.375 x 1.660 60.3 x 42.2	2 1/2 63.5	1.0 .454	5 x 3 125 x 80	5.563 x 3.500 141.3 x 88.9	3 1/2 88.9	4.0 1.814
2 x 1 1/2 50 x 40	2.375 x 1.900 60.3 x 48.3	2 1/2 63.5	1.0 .454	5 x 4 125 x 100	5.563 x 4.5 141.3 x 114.3	3 1/2 88.9	5.0 2.041
2 1/2 x 1 65 x 25	2.875 x 1.315 73.0 x 33.4	2 1/2 63.5	1.5 0.680	6 1/2 O.D. x 3 O.D. 165.1 x 76.1	6.500 x 2.996 165.1 x 76.1	4 101.6	5.0 2.268
2 1/2 x 1 1/4 65 x 32	2.875 x 1.660 73.0 x 42.2	2 1/2 63.5	1.5 0.680	6 1/2 O.D. x 3 165.1 x 80	6.500 x 3.500 165.1 x 88.9	4 101.6	5.5 2.495
2 1/2 x 1 1/2 65 x 40	2.875 x 1.900 73.0 x 48.3	2 1/2 63.5	1.5 0.680	6 1/2 O.D. x 4 165.1 x 100	6.500 x 4.500 165.1 x 114.3	4 101.6	6.0 2.720
2 1/2 x 2 65 x 50	2.875 x 2.375 73.0 x 60.3	2 1/2 63.5	1.5 0.680	6 1/2 O.D. x 5 1/2 O.D. 165.1 x 139.7	6.500 x 5.500 165.1 x 139.7	4 101.6	6.5 2.948
3 O.D. x 1 76.1 x 25	2.996 x 1.315 76.1 x 33.4	2 1/2 63.5	1.5 0.680	6 x 2 150 x 50	6.625 x 2.375 168.3 x 60.3	4 101.6	5.0 2.268
3 O.D. x 1 1/4 76.1 x 32	2.996 x 1.660 76.1 x 42.2	2 1/2 63.5	1.5 0.680	6 x 2 1/2 150 x 65	6.625 x 2.875 168.3 x 73.0	4 101.6	5.5 2.495
3 O.D. x 1 1/2 76.1 x 40	2.996 x 1.900 76.1 x 48.3	2 1/2 63.5	1.5 0.680	6 x 3 O.D. 150 x 76.1	6.625 x 2.996 168.3 x 76.1	4 101.6	5.5 2.495
3 O.D. x 2 76.1 x 50	2.996 x 2.375 76.1 x 60.3	2 1/2 63.5	1.5 0.680	6 x 3 150 x 80	6.625 x 3.500 168.3 x 88.9	4 101.6	5.5 2.495
3 x 1 1/2 80 x 40	3.500 x 1.900 88.9 x 48.3	2 1/2 63.5	1.5 0.680	6 x 4 150 x 100	6.625 x 4.500 168.3 x 114.3	4 101.6	6.5 2.948
3 x 2 80 x 50	3.500 x 2.375 88.9 x 60.3	2 1/2 63.5	2.0 0.907	6 x 5 1/2 O.D. 150 x 139.7	6.625 x 5.500 168.3 x 139.7	4 101.6	6.5 2.948
3 x 2 1/2 80 x 65	3.500 x 2.875 88.9 x 73.0	2 1/2 63.5	2.0 0.907	6 x 5 150 x 125	6.625 x 5.563 168.3 x 141.3	4 101.6	6.0 2.720
3 x 3 O.D. 80 x 76.1	3.500 x 2.996 88.9 x 76.1	2 1/2 63.5	2.0 0.907	6 x 6 1/2 O.D. 150 x 165.1	6.625 x 6.500 168.3 x 165.1	4 101.6	7.5 3.402
4 x 1 100 x 25	4.500 x 1.315 114.3 x 33.4	3 76.2	2.5 1.134	8 x 4 200 x 100	8.625 x 4.500 219.1 x 114.3	5 127.0	10.0 4.536
4 x 1 1/2 100 x 40	4.500 x 1.900 114.3 x 48.3	3 76.2	2.5 1.134	8 x 6 1/2 O.D. 200 x 165.1	8.625 x 6.500 219.1 x 165.1	5 127.0	11.0 4.990
4 x 2 100 x 50	4.500 x 2.375 114.3 x 60.3	3 76.2	2.5 1.134	8 x 6 200 x 150	8.625 x 6.625 219.1 x 168.3	5 127.0	11.0 4.990
4 x 2 1/2 100 x 65	4.500 x 2.875 114.3 x 73.0	3 76.2	2.5 1.134	10 x 8 250 x 200	10.750 x 8.675 273.1 x 219.1	6 152.4	19.5 8.845
4 x 3 O.D. 100 x 76.1	4.500 x 2.996 114.3 x 76.1	3 76.2	2.5 1.134				
4 x 3 100 x 80	4.500 x 3.500 114.3 x 88.9	3 76.2	2.5 1.134				
5 1/2 O.D. x 3 O.D. 139.7 x 76.1	5.500 x 2.996 139.7 x 76.1	3 1/2 88.9	4.0 1.814				

All 7072i fittings are cast ductile iron.



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FIG. 7069

45° Lateral

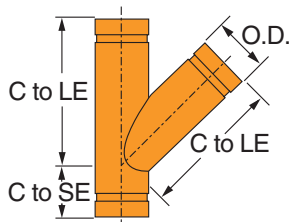


FIGURE 7069 LATERAL				
Nominal Size	O.D.	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315	5	2¼	1.5
25	33.4	127	57	0.7
1¼	1.660	5¾	2½	2.5
32	42.2	146	64	1.1
1½	1.900	6¼	2¾	3.5
40	48.3	159	70	1.6
2	2.375	7	2¾	4.5
50	60.3	178	70	2.0
2½	2.875	7¾	3	10.0
65	73.0	197	76	4.5
3	3.500	8½	3¼	11.0
80	88.9	216	83	5.0
3½	4.000	10	3½	14.0
90	101.6	254	89	6.4
4	4.500	10½	3¾	18.3
100	114.3	267	95	8.3
5	5.563	12½	4	30.0
125	141.3	318	102	13.6
6	6.625	14	4½	46.6
150	168.3	356	114	21.1
8	8.625	18	6	82.8
200	219.1	457	152	37.6
10	10.750	20½	6½	127
250	273.1	521	165	57.4
12	12.750	23	7	165
300	323.9	584	178	74.8
14	14.000	26½	7½	215
350	355.6	673	191	97.5
16	16.000	29	8	345
400	406.4	737	203	157
18	18.000	32	8½	425
450	457.2	813	216	193
20	20.000	35	9	517
500	508.0	889	229	235
24	24.000	40	10	940
600	609.6	1016	254	426

FIG. 7070

45° Reducing Lateral

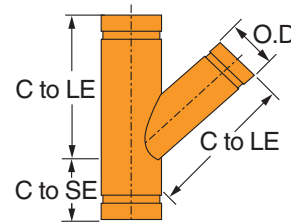


FIGURE 7070 REDUCING LATERAL							
Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.	Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg	In./DN(mm)	In./mm	In./mm	Lbs./Kg
3 x 3 x 2	8½	3¼	9.8	12 x 12 x 10	23	7	168
80 x 80 x 50	216	83	4.4	300 x 300 x 250	584	178	76.2
3 x 3 x 2½	8½	3¼	11.5	14 x 14 x 4	26½	7½	173
80 x 80 x 65	216	83	5.2	350 x 350 x 100	673	191	78.5
4 x 4 x 2	10½	3¾	15.5	14 x 14 x 6	26½	7½	185
100 x 100 x 50	267	95	7.0	350 x 350 x 150	673	191	83.9
4 x 4 x 2½	10½	3¾	17.0	14 x 14 x 8	26½	7½	195
100 x 100 x 65	267	95	7.7	350 x 350 x 200	673	191	88.5
4 x 4 x 3	10½	3¾	18.5	14 x 14 x 10	26½	7½	223
100 x 100 x 80	267	95	8.4	350 x 350 x 250	673	191	101
5 x 5 x 2	12½	4	22.5	14 x 14 x 12	26½	7½	240
125 x 125 x 50	318	102	10.2	350 x 350 x 300	673	191	109
5 x 5 x 3	12½	4	26.5	16 x 16 x 6	29	8	235
125 x 125 x 80	318	102	12.0	400 x 400 x 150	737	203	107
5 x 5 x 4	12½	4	30.5	16 x 16 x 8	29	8	250
125 x 125 x 100	318	102	13.8	400 x 400 x 200	737	203	113
6 x 6 x 2	14	4½	33.0	16 x 16 x 10	29	8	263
150 x 150 x 50	356	114	15.0	400 x 400 x 250	737	203	119
6 x 6 x 3	14	4½	37.0	16 x 16 x 12	29	8	283
150 x 150 x 80	356	114	16.8	400 x 400 x 300	737	203	128
6 x 6 x 4	14	4½	40.0	16 x 16 x 14	29	8	307
150 x 150 x 100	356	114	18.1	400 x 400 x 350	737	203	139
6 x 6 x 5	14	4½	45.0	18 x 18 x 6	32	8½	275
150 x 150 x 125	356	114	20.4	450 x 450 x 150	813	216	125
8 x 8 x 4	18	6	59.6	18 x 18 x 8	32	8½	306
200 x 200 x 100	457	152	27.0	450 x 450 x 200	813	216	139
8 x 8 x 5	18	6	68.0	18 x 18 x 10	32	8½	321
200 x 200 x 125	457	152	30.8	450 x 450 x 250	813	216	146
8 x 8 x 6	18	6	75.0	18 x 18 x 12	32	8½	333
200 x 200 x 150	457	152	34.0	450 x 450 x 300	813	216	151
10 x 10 x 4	20½	6½	83.0	18 x 18 x 14	32	8½	358
250 x 250 x 100	521	165	37.6	450 x 450 x 350	813	216	162
10 x 10 x 5	20½	6½	100.0	18 x 18 x 16	32	8½	382
250 x 250 x 125	521	165	45.4	450 x 450 x 400	813	216	173
10 x 10 x 6	20½	6½	105.0	20 x 20 x 12	35	9	390
250 x 250 x 150	521	165	47.6	500 x 500 x 300	889	229	177
10 x 10 x 8	20½	6½	116.0	20 x 20 x 14	35	9	410
250 x 250 x 200	521	165	52.6	500 x 500 x 350	889	229	186
12 x 12 x 4	23	7	137.0	20 x 20 x 16	35	9	440
300 x 300 x 100	584	178	62.1	500 x 500 x 400	889	229	200
12 x 12 x 6	23	7	140.0	24 x 24 x 16	40	10	725
300 x 300 x 150	584	178	63.5	600 x 600 x 400	1016	254	329
12 x 12 x 8	23	7	147.0	24 x 24 x 20	40	10	785
300 x 300 x 200	584	178	66.7	600 x 600 x 500	1016	254	356

See Fitting Size chart on page 59 for O.D.



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FIG. 7066 – Tee Wye

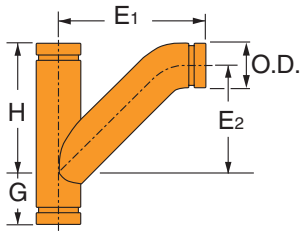


FIGURE 7066 TEE WYE

Nominal Size	G	H	E1	E2	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
2 x 2 x 2 50 x 50 x 50	2 3/4 70	7 178	9 229	4 3/8 117	6.4 2.9
2 1/2 x 2 1/2 x 2 1/2 65 x 65 x 65	3 76	7 3/4 197	10 1/2 267	5 3/4 146	11.5 5.2
3 x 3 x 3 80 x 80 x 80	3 1/4 83	8 1/2 216	11 1/2 292	6 1/2 165	16.5 7.5
3 1/2 x 3 1/2 x 3 1/2 90 x 90 x 90	3 1/2 89	10 254	13 330	7 3/4 197	22 10.0
4 x 4 x 3 100 x 100 x 80	3 3/4 95	10 1/2 267	12 3/4 327	7 3/4 200	23 10.4
4 x 4 x 4 100 x 100 x 100	3 3/4 95	10 1/2 267	13 3/8 346	8 3/8 206	26 11.8
5 x 5 x 3 125 x 100 x 80	4 102	12 1/2 318	14 1/4 362	9 3/4 235	32 14.5
5 x 5 x 4 125 x 125 x 100	4 102	12 1/2 318	15 1/8 384	9 3/8 244	35 15.9
5 x 5 x 5 125 x 125 x 125	4 102	12 1/2 318	16 1/8 410	10 254	40 18.1
6 x 6 x 3 150 x 150 x 80	4 1/2 114	14 356	15 5/8 399	10 5/8 262	50 22.7
6 x 6 x 4 150 x 150 x 100	4 1/2 114	14 356	16 1/4 413	10 3/4 273	55 24.9
6 x 6 x 5 150 x 150 x 125	4 1/2 114	14 356	17 1/4 438	11 1/8 283	58 26.3
6 x 6 x 6 150 x 150 x 150	4 1/2 114	14 356	18 3/4 464	11 1/2 292	60.5 27.4
8 x 8 x 3 200 x 200 x 80	6 152	18 457	18 3/8 462	13 3/8 335	100 45.4
8 x 8 x 4 200 x 200 x 100	6 152	18 457	19 483	13 1/2 343	110 49.9
8 x 8 x 5 200 x 200 x 125	6 152	18 457	20 508	13 7/8 352	111 50.3
8 x 8 x 6 200 x 200 x 150	6 152	18 457	21 1/8 537	14 3/8 365	112 50.8
8 x 8 x 8 200 x 200 x 200	6 152	18 457	23 1/4 591	15 1/4 387	120 54.4
10 x 10 x 3 250 x 250 x 80	6 1/2 165	20 1/2 521	19 3/8 505	14 3/8 378	130 59.0
10 x 10 x 4 250 x 250 x 100	6 1/2 165	20 1/2 521	20 3/4 527	15 1/4 387	135 61.2
10 x 10 x 5 250 x 250 x 125	6 1/2 165	20 1/2 521	21 1/8 556	15 3/4 400	140 63.5
10 x 10 x 6 250 x 250 x 150	6 1/2 165	20 1/2 521	22 3/8 581	16 1/8 410	145 65.8
10 x 10 x 8 250 x 250 x 200	6 1/2 165	20 1/2 521	27 1/4 692	19 1/4 489	150 68.0
10 x 10 x 10 250 x 250 x 250	6 1/2 165	20 1/2 521	27 1/4 692	18 457	190 86.2
12 x 12 x 3 300 x 300 x 80	7 178	23 584	20 3/4 527	15 3/4 400	140 63.5
12 x 12 x 4 300 x 300 x 100	7 178	23 584	21 1/2 546	16 406	145 65.8
12 x 12 x 6 300 x 300 x 150	7 178	23 584	23 3/4 603	17 432	165 74.8
12 x 12 x 8 300 x 300 x 200	7 178	23 584	26 660	18 457	175 79.4
12 x 12 x 10 300 x 300 x 250	7 178	23 584	28 711	18 3/4 476	200 90.7
12 x 12 x 12 300 x 300 x 300	7 178	23 584	31 787	20 1/2 521	240 109

FIG. 7067 – Reducing Tee Wye

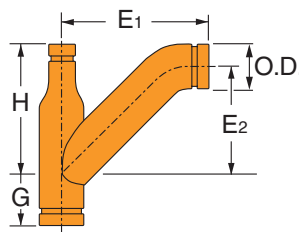


FIGURE 7067 REDUCING TEE WYE

Nominal Size	G	H	E1	E2	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./Kg
4 x 3 x 3 100 x 80 x 80	1 1/8 41	7 3/8 187	10 3/4 273	5 3/8 143	16.0 7.3
4 x 3 x 4 100 x 80 x 100	3 3/4 95	10 1/2 267	13 3/8 346	8 3/8 206	27.0 12.2
5 x 3 x 3 125 x 80 x 80	1 1/4 32	9 3/4 248	11 1/2 292	6 1/2 165	25.0 11.3
5 x 3 x 5 125 x 80 x 125	4 102	12 1/2 318	16 1/2 410	10 254	44.0 20.0
5 x 4 x 3 125 x 100 x 80	1 1/8 48	9 3/8 232	11 1/8 302	6 3/8 175	21.0 9.5
5 x 4 x 4 125 x 100 x 100	1 1/8 48	9 3/8 232	12 3/4 324	7 1/4 184	25.0 11.3
6 x 4 x 6 150 x 100 x 150	4 1/2 114	14 356	18 1/4 464	11 1/2 292	61.0 27.7
6 x 5 x 3 150 x 125 x 80	1 1/4 32	10 3/4 273	13 330	8 203	27.0 12.2
6 x 5 x 4 150 x 125 x 100	1 1/4 32	10 3/4 273	13 3/8 352	8 3/8 213	31.0 14.1
8 x 6 x 4 200 x 150 x 100	1 25	12 305	14 3/4 375	9 3/4 235	45.0 20.4
8 x 6 x 8 200 x 150 x 200	6 152	18 457	23 1/4 591	15 1/4 387	95.0 43.1

FIG. 7071 – True Wye

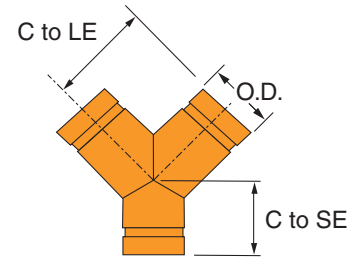


FIGURE 7071 TRUE WYE

Nominal Size	O.D.	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315 33.4	2 1/4 57	2 1/4 57	1.1 0.5
1 1/4	1.660 42.2	2 3/4 70	2 1/2 64	1.5 0.7
1 1/2	1.900 48.3	2 3/4 70	2 3/4 70	1.8 0.8
2	2.375 60.3	3 1/4 83	2 3/4 70	2.3 1.0
2 1/2	2.875 73.0	3 3/4 95	3 76	5.0 2.3
3	3.500 88.9	4 1/4 108	3 3/4 83	6.1 2.8
3 1/2	4.000 101.6	4 1/2 114	3 1/2 89	8.3 3.8
4	4.500 114.3	5 127	3 3/4 95	10.5 4.8
5	5.563 141.3	5 1/2 140	4 102	15 6.8
6	6.625 168.3	6 1/2 165	4 1/2 114	21.6 9.8
8	8.625 219.1	7 3/4 197	6 152	36.0 16.3
10	10.750 273.1	9 229	6 1/2 165	51.0 23.1
12	12.750 323.9	10 254	7 178	160.0 72.6
14	14.000 355.6	11 279	7 1/2 191	136.0 61.7
16	16.000 406.4	12 305	8 203	166.0 75.3
18	18.000 457.2	15 1/2 394	8 1/2 216	234 106
20	20.000 508.0	17 1/4 438	9 229	281 128
24	24.000 609.6	20 508	10 254	523 237



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See Fitting Size chart on page 59 for O.D.

FIG. 7087 GR X FPT

Female Thread Adapter

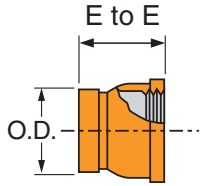


FIGURE 7087 FEMALE THREAD ADAPTER			
Nominal Size	Grooved End O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2 ¹ / ₁₆	0.7
25	33.4	52	0.3
1 ¹ / ₄	1.660	2 ⁵ / ₁₆	1.4
32	42.2	59	0.6
1 ¹ / ₂	1.900	2 ⁵ / ₁₆	1.5
40	48.3	59	0.7
2	2.375	2 ¹ / ₂	1.6
50	60.3	64	0.7
2 ¹ / ₂	2.875	—	1.6
65	73.0	—	0.7
3	3.500	2 ³ / ₄	2.5
80	88.9	70	1.1
4	4.500	3 ¹ / ₄	4.5
100	114.3	83	2.0

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FIG. 7055 GR X MPT

90° Adapter Elbow

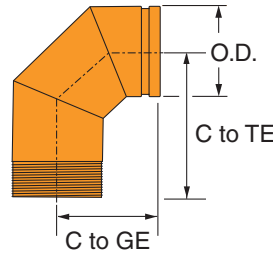


FIGURE 7055 90° ADAPTER ELBOW				
Nominal Size	Fitting O.D.	Center to Grooved End	Center to Threaded End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315	2 ¹ / ₄	2 ¹ / ₄	0.6
25	33.4	57	57	0.3
1 ¹ / ₄	1.660	2 ³ / ₄	2 ³ / ₄	1.0
32	42.2	70	70	0.5
1 ¹ / ₂	1.900	2 ³ / ₄	2 ³ / ₄	1.2
40	48.3	70	70	0.5
2	2.375	3 ¹ / ₄	4 ¹ / ₄	2.3
50	60.3	83	108	1.0
2 ¹ / ₂	2.875	3 ³ / ₄	3 ³ / ₄	3.7
65	73.0	95	95	1.7
3	3.500	4 ¹ / ₄	6	6.5
80	88.9	108	152	2.9
3 ¹ / ₂	4.000	4 ¹ / ₂	6 ¹ / ₄	8.2
90	101.6	114	159	3.7
4	4.500	5	7 ¹ / ₄	11
100	114.3	127	184	5.0
6	6.625	6 ¹ / ₂	6 ¹ / ₂	19.8
150	168.3	165	165	9.0

FIG. 7056 GR X MPT

45° Adapter Elbow

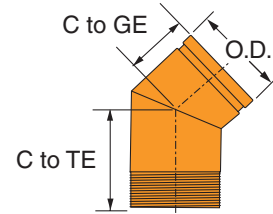


FIGURE 7056 45° ADAPTER ELBOW				
Nominal Size	Fitting O.D.	Center to Grooved End	Center to Threaded End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315	1 ³ / ₄	1 ³ / ₄	0.6
25	33.4	44	44	0.3
1 ¹ / ₄	1.660	1 ³ / ₄	1 ³ / ₄	0.7
32	42.2	44	44	0.3
1 ¹ / ₂	1.900	1 ³ / ₄	1 ³ / ₄	0.8
40	48.3	44	44	0.4
2	2.375	2	3	1.6
50	60.3	51	76	0.7
2 ¹ / ₂	2.875	2 ¹ / ₄	2 ¹ / ₄	2.2
65	73.0	57	57	1.0
3	3.500	2 ¹ / ₂	4 ¹ / ₄	4.3
80	88.9	64	108	2.0
3 ¹ / ₂	4.000	2 ³ / ₄	2 ³ / ₄	4.2
90	101.6	70	70	1.9
4	4.500	3	5 ¹ / ₄	7.5
100	114.3	76	133	3.4
6	6.625	3 ¹ / ₂	3 ¹ / ₂	11.1
150	168.3	89	89	5.0



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REDUCING BASE SUPPORT ELBOW

FIG. 7050RF – Grooved x 150# Flanged (GxF)

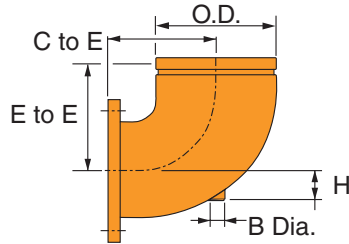


FIGURE 7050 RF REDUCING BASE SUPPORT ELBOW					
Nominal Size	Grooved End O.D.	Center to End	H	B Dia. Threaded	Approx. Wt. Ea. GxF
In./DN(mm)	In./mm	In./mm	In./mm	NPSC	Lbs./Kg
6 x 4 150 x 100	6.625 168.3	12 305	2½ 64	1½ 38	38.5 17.5
6 x 5 150 x 125	6.625 168.3	12½ 318	2½ 64	1½ 38	45.4 20.6
8 x 5 200 x 125	8.625 219.1	16 406	3 76	1½ 38	65.5 29.7
8 x 6 200 x 150	8.625 219.1	16 406	3 76	1½ 38	73 33.1
10 x 6 250 x 150	10.750 273.1	19 483	3½ 89	1½ 38	100 45.4
10 x 8 250 x 200	10.750 273.1	19 483	3½ 89	1½ 38	127 57.6
12 x 8 300 x 200	12.750 323.9	22 559	4 102	1½ 38	155 70.3
12 x 10 300 x 250	12.750 323.9	22 559	4 102	1½ 38	186 84.4

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GROOVED FLANGE NIPPLES

FIG. 7084 – Groove x Class 150 Flange Nipple

FIG. 7085 – Groove x Class 300 Flange Nipple

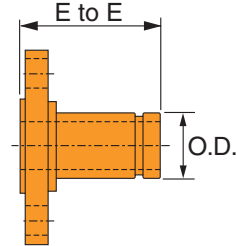


FIGURE 7084 GROOVE X CLASS 150 FLANGE NIPPLE			
Nominal Size	O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1 25	1.315 33.4	3 76	2.5 1.1
1¼ 32	1.660 42.2	4 102	3.8 1.7
1½ 40	1.900 48.3	4 102	4.1 1.9
2 50	2.375 60.3	4 102	6.0 2.7
2½ 65	2.875 73.0	4 102	9.2 4.2
3 80	3.500 88.9	4 102	10.4 4.7
3½ 90	4.000 101.6	4 102	14.0 6.4
4 100	4.500 114.3	6 152	19.1 8.7
5 125	5.563 141.3	6 152	23.0 10.4
6 150	6.625 168.3	6 152	29.5 13.4
8 200	8.625 219.1	6 152	43.5 19.7
10 250	10.750 273.1	8 203	68.2 30.9
12 300	12.750 323.9	8 203	96.1 43.6
14 350	14.000 355.6	* *	* *
16 400	16.000 406.4	* *	* *
18 450	18.000 457.2	* *	* *
20 500	20.000 508.0	* *	* *
24 600	24.000 609.6	* *	* *

* Contact an Anvil Representative for dimensions & weights.

FIGURE 7085 GROOVE X CLASS 300 FLANGE NIPPLE	
End to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
3 76	3.6 1.6
4 102	4.6 2.1
4 102	7.1 3.2
4 102	8.2 3.7
4 102	11.9 5.4
4 102	15.5 7.0
4 102	21.0 9.5
6 152	28.0 12.7
6 152	35.0 15.9
6 152	50.0 22.7
6 152	72.0 32.7
8 203	* *
8 203	* *
* *	* *
* *	* *
* *	* *
* *	* *
* *	* *

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FIG. 7074

Cap

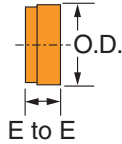


FIGURE 7074 CAP			
Nominal Size	O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1C	1.315	1¼	0.3
25	33.4	32	0.1
1¼ C	1.660	1¼	0.4
32	42.2	32	0.2
1½ C	1.900	1¼	0.5
40	48.3	32	0.2
2 C	2.375	1	0.5
50	60.3	25	0.2
2½ C	2.875	1	0.7
65	73.0	25	0.3
3 O.D. C	2.996	1	0.8
76.1	76.1	25	0.4
3 C	3.500	1	1.1
80	88.9	25	0.5
3½ C	4.000	1	1.4
90	101.6	25	0.6
4¼ O.D. C	4.250	1½	2.0
108.0	108.0	29	0.9
4 C	4.500	1½	2.8
100	114.3	29	1.3
5¼ O.D. C	5.236	1½	3.2
133.0	133.0	29	1.5
5½ O.D. C	5.500	1½	4.0
139.7	139.7	29	1.8
5 C	5.563	1½	4.0
125	141.3	29	1.8
6¼ O.D. C	6.259	1½	5.1
159.0	159.0	29	2.3
6½ O.D. C	6.500	1½	6.0
165.1	165.1	29	2.7
6 C	6.625	1½	6.0
150	168.3	33	2.7
8 C	8.625	1½	12.5
200	219.1	38	5.7
10 C	10.750	1½	21.9
250	273.1	38	9.9
12 C	12.750	1½	33.8
300	323.9	38	15.3
14*	14.000	8½	40
350	355.6	216	18.1
16*	16.000	9	45
400	406.4	229	20.4
18*	18.000	10	58
450	457.2	254	26.3
20*	20.000	11	79
500	508.0	279	35.8
24*	24.000	12½	100
600	609.6	318	45.4

* Machined Cap
C - Cast Ductile Iron

FIG. 7075

Bull Plug

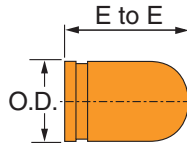


FIGURE 7075 BULL PLUG			
Nominal Size	O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375	4	2.5
50	60.3	102	1.1
2½	2.875	5	3.1
65	73.0	127	1.4
3	3.500	6	4.4
80	88.9	152	2.0
4	4.500	7	7.4
100	114.3	178	3.4
5	5.563	*	*
125	141.3	*	*
6	6.625	10	18.5
150	168.3	254	8.4

* Contact an Anvil Representative for dimensions & weights.
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FIG. 7068

Cross

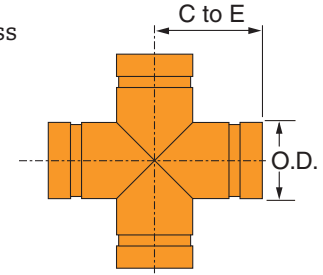


FIGURE 7068 CROSS			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2¼	1.3
25	33.4	57	0.6
1¼	1.660	2¼	2.1
32	42.2	70	1.0
1½	1.900	2¼	2.5
40	48.3	70	1.1
2	2.375	3¼	2.9
50	60.3	83	1.3
2½	2.875	3¼	5.2
65	73.0	95	2.4
3	3.500	4¼	7.5
80	88.9	108	3.4
3½	4.000	4½	9.8
90	101.6	114	4.4
4	4.500	5	12.2
100	114.3	127	5.5
5	5.563	5½	17.6
125	141.3	140	8.0
6	6.625	6½	28.3
150	168.3	165	12.8
8	8.625	7¼	48.0
200	219.1	197	21.8
10	10.750	9	70.0
250	273.1	229	31.8
12	12.750	10	110
300	323.9	254	49.9
14	14.000	11	140
350	355.6	279	63.5
16	16.000	12	170
400	406.4	305	77.1
18	18.000	15½	260
450	457.2	394	118
20	20.000	17¼	320
500	508.0	438	145
24	24.000	20	585
600	609.6	508	265



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NIPPLES

FIG. 7086

GR x HOSE Nipple

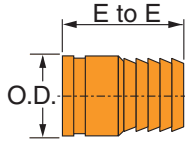


FIGURE 7086 HOSE NIPPLE			
Nominal Size	O.D.	End to End	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1 25	1.315 33.4	3¼ 83	0.4 0.2
1¼ 32	1.660 42.2	3¾ 92	0.7 0.3
1½ 40	1.900 48.3	4 102	0.8 0.4
2 50	2.375 60.3	4½ 117	1.3 0.6
2½ 65	2.875 73.0	5½ 140	2.1 1.0
3 80	3.500 88.9	6 152	3.3 1.5
4 100	4.500 114.3	7¼ 184	5.5 2.5
5 125	5.563 141.3	9¾ 248	8.1 3.7
6 150	6.625 168.3	11 279	13.2 6.0
8 200	8.625 219.1	12½ 318	24.0 10.9
10 250	10.750 273.1	14 356	29.0 13.2
12 300	12.750 323.9	16 406	46.0 20.9

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FIG. 7080

GR x GR

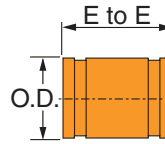


FIG. 7081

GR x MPT

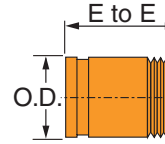
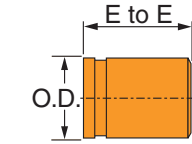


FIG. 7082

GR x BEV



FIGURES 7080, 7081 & 7082 ADAPTER NIPPLE			
Nominal Size	O.D.	End to End	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1 25	1.315 33.4	3 76	0.4 0.2
1¼ 32	1.660 42.2	4 102	0.8 0.4
1½ 40	1.900 48.3	4 102	0.9 0.4
2 50	2.375 60.3	4 102	1.2 0.5
2½ 65	2.875 73.0	4 102	1.9 0.9
3 80	3.500 88.9	4 102	2.5 1.1
3½ 90	4.000 101.6	4 102	3.1 1.4
4 100	4.500 114.3	6 152	5.5 2.5
5 125	5.563 141.3	6 152	7.4 3.4
6 150	6.625 168.3	6 152	9.5 4.3
8 200	8.625 219.1	6 152	14.2 6.4
10 250	10.750 273.1	8 203	27.0 12.2
12 300	12.750 323.9	8 203	33.0 15.0

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FIG. 7062

Bullhead Tee (GR x GR x FPT)

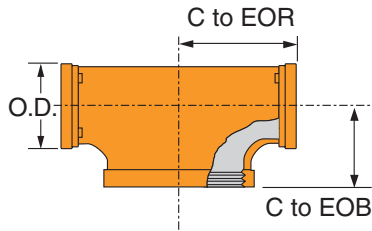


FIGURE 7062 BULLHEAD TEE
(GR x GR x FPT)

Nominal Size	Center to End of Run	Center to End of Branch	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
5 x 5 x 8 <i>125 x 125 x 200</i>	7¾ <i>197</i>	5½ <i>140</i>	31.0 <i>14.1</i>
6 x 6 x 8 <i>150 x 150 x 200</i>	7¾ <i>197</i>	6½ <i>165</i>	37.6 <i>17.1</i>

See Fitting Size chart on page 59 for O.D.

These fittings are designed to provide minimal pressure drop and uniform strength. Pressure ratings of Gruvlok Fittings conforms to those of Fig. 7001 Gruvlok Standard Coupling.



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FIG. 7065

Standpipe Tee (GR x GR x FPT)

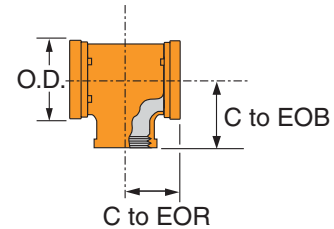


FIGURE 7065 STANDPIPE TEE
(GR x GR x FPT)

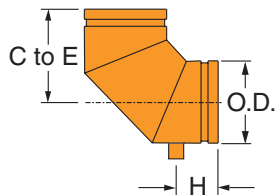
Nominal Size	O.D.	Center to End of Run	Center to End of Branch	Approx. Wt. Ea.
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
4 x 4 x 2½ <i>100 x 100 x 65</i>	4.500 <i>114.3</i>	¾ <i>83</i>	4 <i>102</i>	7.6 <i>3.4</i>
6 x 6 x 2½ <i>150 x 150 x 65</i>	6.625 <i>168.3</i>	¾ <i>83</i>	5½ <i>130</i>	11.2 <i>5.1</i>

See Fitting Size chart on page 59 for O.D.

These fittings are designed to provide minimal pressure drop and uniform strength. Pressure ratings of Gruvlok Fittings conforms to those of Fig. 7001 Gruvlok Standard Coupling.

FIG. 7050DR

90° Drain elbow



Available fabricated Schedule 10 only.

Drain elbow has a standard 1" female NPT outlet.

FIGURE 7050DR 90° DRAIN ELBOW

Nominal Size	O.D.	Max Working Pressure	Dimensions		Approx. Wt. Ea.
			C to E	H	
<i>In./DN(mm)</i>	<i>In./mm</i>	<i>PSI/bar</i>	<i>In./mm</i>	<i>In./mm</i>	<i>Lbs./Kg</i>
1¼ <i>32</i>	1.660 <i>42.2</i>	300 <i>20.7</i>	¾ <i>69</i>	1¼ <i>44</i>	0.7 <i>0.3</i>
1½ <i>40</i>	1.900 <i>48.3</i>	300 <i>20.7</i>	¾ <i>69</i>	1¼ <i>44</i>	1.7 <i>0.8</i>
2 <i>50</i>	2.375 <i>60.3</i>	300 <i>20.7</i>	¾ <i>83</i>	1¼ <i>44</i>	2.0 <i>0.9</i>
2½ <i>65</i>	2.875 <i>73.0</i>	300 <i>20.7</i>	¾ <i>95</i>	1⅞ <i>48</i>	2.5 <i>1.1</i>
3 <i>80</i>	3.500 <i>88.9</i>	300 <i>20.7</i>	¾ <i>108</i>	2 <i>51</i>	3.2 <i>1.5</i>
4 <i>100</i>	4.500 <i>114.3</i>	300 <i>20.7</i>	5 <i>127</i>	2¼ <i>57</i>	4.6 <i>2.1</i>
5 <i>125</i>	5.583 <i>141.3</i>	300 <i>20.7</i>	5½ <i>140</i>	2⅝ <i>60</i>	11.5 <i>5.2</i>
6 <i>150</i>	6.625 <i>168.3</i>	300 <i>20.7</i>	6½ <i>165</i>	2⅝ <i>60</i>	9.6 <i>4.4</i>
8 <i>200</i>	8.625 <i>219.1</i>	300 <i>20.7</i>	7¾ <i>197</i>	2½ <i>64</i>	15.8 <i>7.2</i>
10 <i>250</i>	10.750 <i>273.1</i>	300 <i>20.7</i>	9 <i>229</i>	2¾ <i>69</i>	48.5 <i>22.0</i>
12 <i>300</i>	12.750 <i>323.9</i>	300 <i>20.7</i>	10 <i>254</i>	2¾ <i>69</i>	66.0 <i>29.0</i>

GRUVLOK® FIRE-RITE™ SHORT PATTERN FITTINGS



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.com or contact an Anvil® Sales Representative.

FIG. 7450

90° Short Pattern Elbow

The Gruvlok® Fire-Rite™ short pattern 90° elbows has a 2" to 8" size range and a 300 psi pressure rating.

Fire-Rite™ fittings are painted to industry specification and are available galvanized for more corrosive environments.

CAD design increases internal diameters and provides superior flow capability.

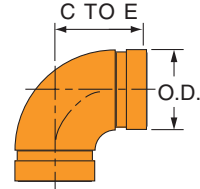
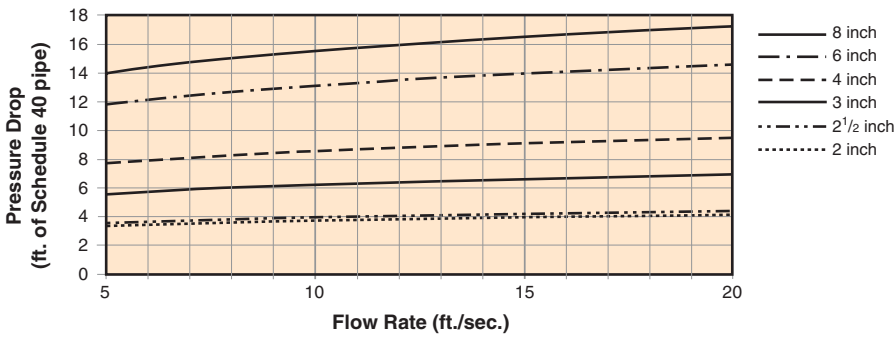


FIGURE 7450 90° ELBOW SHORT PATTERN FITTING – PRESSURE DROP



Gruvlok short pattern fittings exceed the headloss requirements of NFPA 13.

For Fig. 7450 90° grooved end elbows use the value shown.

Note: Above values are shown for Schedule 40 pipe to be consistent with industry practices.

FIGURE 7450 90° ELBOW

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375 60.3	2¾ 70	1.7 0.8
2½	2.875 73.0	3 76	2.6 1.2
3	3.500 88.9	3½ 86	3.5 1.6
4	4.500 114.3	4 102	6.5 3.0
6	6.625 168.3	5½ 140	14.8 6.7
8	8.625 219.1	6¾ 175	25.6 11.6

All are Ductile Iron.

FIG. 7460

Short Pattern Tee

The Gruvlok® Fire-Rite™ short pattern tee has a 2" to 8" size range and a 300 psi pressure rating.

Fire-Rite™ fittings are painted to industry specification and are available galvanized for more corrosive environments.

CAD design increases internal diameters and provides superior flow capability.

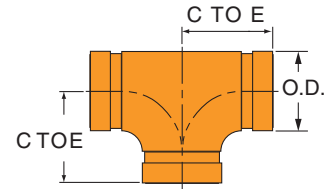
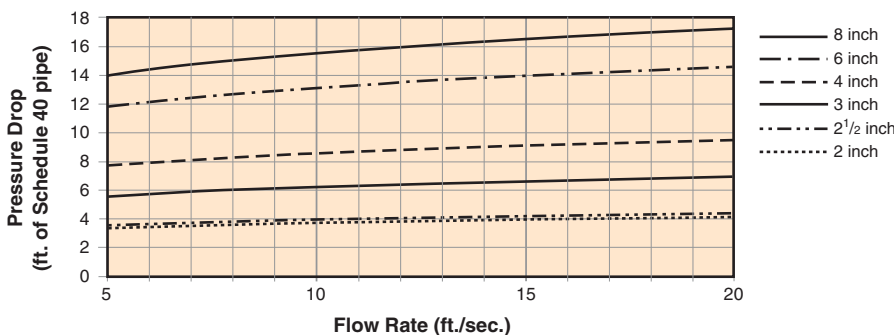


FIGURE 7460 TEE SHORT PATTERN FITTING – PRESSURE DROP



Gruvlok short pattern fittings exceed the headloss requirements of NFPA 13.

For Fig. 7460 Tee branch use 2½ times the value shown.

For Fig. 7460 Tee run use the value shown.

Note: Above values are shown for Schedule 40 pipe to be consistent with industry practices.

FIGURE 7460 TEE

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375 60.3	2¾ 70	2.5 1.1
2½	2.875 73.0	3 76	3.5 1.6
3	3.500 88.9	3½ 86	4.8 2.2
4	4.500 114.3	4 102	8.1 3.7
6	6.625 168.3	5½ 140	19.1 8.7
8	8.625 219.1	6¾ 175	35.2 16.0

All are Ductile Iron.

FIG. 7050 3D

Long Radius Elbows

- 3D long radius elbows are available in sizes up to 24". Sizes 4" and below are provided with a 4" (101.6 mm) long integral tangent. Remaining sizes are provided with integral tangents with lengths equal to the nominal pipe size.
- Grooved or plain-end available - specify choice on order.
- Material: standard wall steel pipe to ASTM A 53, Grade B. (Other materials available on request).

- Bends to conform to above radii.
- C to E tolerances: 2" through 6" $\pm \frac{1}{8}$ " (3.2 mm);
8" through 16" $\pm \frac{1}{4}$ " (6.4 mm);
18" through 24" $\pm \frac{3}{8}$ " (9.5 mm).
- All weights are approximate, based on calculated weight of pipe.

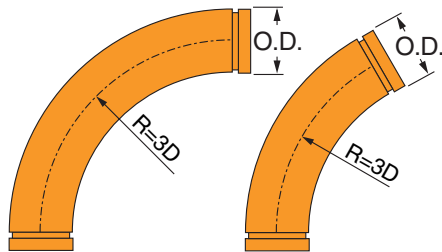


Fig. 7050-3D,
90° Elbow

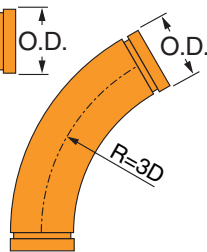


Fig. 7057-3D,
60° Elbow

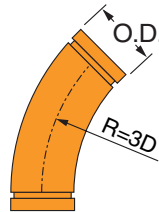


Fig. 7051-3D,
45° Elbow

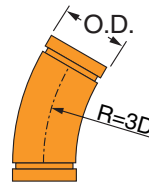


Fig. 7058-3D,
30° Elbow

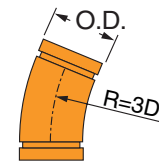


Fig. 7052-3D,
22 1/2° Elbow

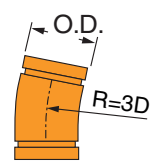


Fig. 7053-3D,
11 1/4° Elbow

FIGURE 7050-3D 90° ELBOW			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375	10	5.3
50	60.3	254	2.4
2½	2.875	11½	9.5
65	73	292	4.3
3	3.500	13	14.0
80	88.9	330	6.4
3½	4.000	14½	18.6
90	101.6	368	8.4
4	4.500	16	24.1
100	114.3	406	10.9
5	5.563	20	40.9
125	141.3	508	18.6
6	6.625	24	63.7
150	168.3	610	28.9
8	8.625	32	127.8
200	219.1	813	58.0
10	10.750	40	226.4
250	273.1	1016	102.7
12	12.750	48	332.7
300	323.9	1219	150.9
14	14.000	56	427.3
350	355.6	1422	193.8
16	16.000	64	560.1
400	406.4	1626	254.1
18	18.000	72	710.7
450	457.2	1829	322.4
20	20.000	80	879.3
500	508	2032	398.8
24	24.000	96	1270.3
600	609.6	2438	576.2

FIG. 7057-3D 60° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
7½	4.3
191	2.0
8¼	7.7
210	3.5
9½	11.0
235	5.0
10	14.4
254	6.5
11	18.5
279	8.4
13¾	31.3
349	14.2
16½	48.8
419	22.1
22	97.9
559	44.4
27¼	173.4
692	78.7
32¾	254.8
832	115.6
38¾	327.3
972	148.5
43¾	429.0
1111	194.6
49¼	544.4
1251	246.9
54¾	673.5
1391	305.5
65½	973.0
1664	441.3

FIG. 7051-3D 45° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
6½	3.9
165	1.8
7¼	6.7
184	3.0
7¾	9.5
197	4.3
8½	12.3
216	5.6
9	15.7
229	7.1
11¼	26.5
286	12.0
13½	41.3
343	18.7
18	82.9
457	37.6
22½	146.9
572	66.6
27	215.9
686	97.9
31½	227.3
800	103.1
36	363.5
914	164.9
40½	461.3
1029	209.2
45	540.7
1143	245.3
53¾	824.4
1365	373.9

FIG. 7058-3D 30° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
5¾	3.4
146	1.5
6	5.8
152	2.6
6½	8.0
165	3.6
6¾	10.2
171	4.6
7¼	12.8
184	5.8
9	21.8
229	9.9
10¾	33.9
273	15.4
14½	68.0
368	30.8
18	120.5
457	54.7
21¾	177.0
552	80.3
25¼	227.3
641	103.1
29	297.9
737	135.1
32½	378.1
826	171.5
36	467.8
914	212.2
43¼	675.7
1099	304.1

FIG. 7052-3D 22 1/2° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
5¼	3.2
133	1.5
5½	5.3
140	2.4
5¾	7.3
146	3.3
6	9.2
152	4.2
6½	11.4
165	5.2
8	19.4
203	8.8
9½	30.1
241	13.7
12¾	60.5
324	27.4
16	107.2
406	48.6
19¼	157.5
489	71.4
22½	202.3
572	91.8
25½	265.2
648	120.3
28¾	336.5
730	152.6
32	416.3
813	188.8
38¼	601.4
972	272.8

FIG. 7053-3D 11 1/4° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
4½	2.8
114	1.3
4¾	4.6
121	2.1
5	6.2
127	2.8
5	7.6
127	3.4
5¼	9.3
133	4.2
6½	15.8
165	7.2
7¾	24.6
197	11.2
10½	49.3
267	22.4
13	87.3
330	39.6
15½	128.3
394	58.2
18¼	164.8
464	74.8
20¾	216.0
527	98.0
23.35	274.1
593	124.3
26	339.2
660	153.9
31	490.0
787	222.3

FIG. 7050 5D

Long Radius Elbows

- 5D long radius elbows are available in sizes up to 24". Sizes 4" and below are provided with a 4" (101.6 mm) long integral tangent. Remaining sizes are provided with integral tangents with lengths equal to the nominal pipe size.
- Grooved or plain-end available.
- Material: standard wall steel pipe to ASTM A 53, Grade B. (Other materials available on request).
- Bends to conform to above radii.
- C to E tolerances: 2" through 6" ± 1/8" (3.2 mm); 8" through 16" ± 1/4" (6.4 mm); 18" through 24" + 3/8" (9.5 mm).
- All weights are approximate, based on calculated weight of pipe.

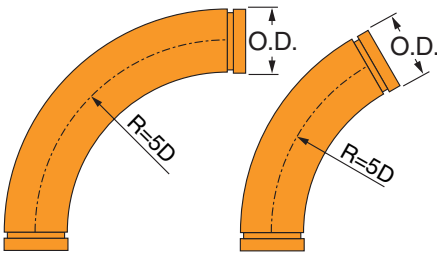


Fig. 7050-5D, 90° Elbow

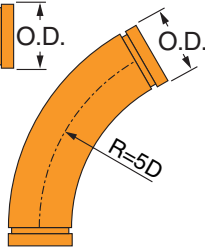


Fig. 7057-5D, 60° Elbow

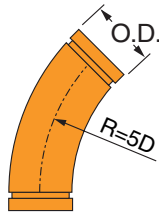


Fig. 7051-5D, 45° Elbow

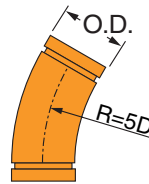


Fig. 7058-5D, 30° Elbow

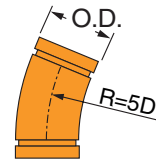


Fig. 7052-5D, 22 1/2° Elbow

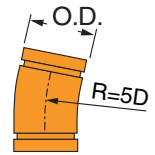


Fig. 7053-5D, 11 1/4° Elbow

FIGURE 7050-5D 90° ELBOW			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375	14	7.2
50	60.3	356	3.3
2 1/2	2.875	16 1/2	13.3
65	73	419	6.0
3	3.500	19	19.9
80	88.9	483	9.0
3 1/2	4.000	21 1/2	26.9
90	101.6	546	12.2
4	4.500	24	35.4
100	114.3	610	16.1
5	5.563	30	60.0
125	141.3	762	27.2
6	6.625	36	93.5
150	168.3	914	42.4
8	8.625	48	187.6
200	219.1	1219	85.1
10	10.750	60	332.4
250	273.1	1524	150.8
12	12.750	72	488.4
300	323.9	1829	221.5
14	14.000	84	627.4
350	355.6	2134	284.6
16	16.000	96	822.2
400	406.4	2438	372.9
18	18.000	108	1,043.4
450	457.2	2743	473.3
20	20.000	120	1,290.9
500	508	3048	585.5
24	24.000	144	1,864.8
600	609.6	3658	845.9

FIG. 7057-5D 60° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
9 3/4	5.6
248	2.5
11 1/4	10.2
286	4.6
12 3/4	15.0
324	6.8
12 1/4	20.0
311	9.1
15 1/2	26.0
394	11.8
19 1/2	44.1
495	20.0
23 1/4	68.6
591	31.1
31	137.7
787	62.5
39	244.1
991	110.7
46 3/4	358.6
1187	162.7
54 1/2	460.7
1384	209.0
62 1/4	603.8
1581	273.9
70	766.2
1778	347.5
77 3/4	947.9
1975	430.0
93 1/4	1,369.3
2369	621.1

FIG. 7051-5D 45° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
8 1/4	4.8
210	2.2
9 1/4	8.6
235	3.9
10 1/4	12.5
260	5.7
11 1/4	16.5
286	7.5
12 1/2	21.3
318	9.7
15 1/2	36.1
394	16.4
18 1/2	56.2
470	25.5
24 1/2	112.8
622	51.2
30 3/4	199.9
781	90.7
37	293.7
940	133.2
43	377.3
1092	171.1
49 1/4	494.5
1251	224.3
55 1/4	627.6
1403	284.7
61 1/2	776.4
1562	352.2
73 3/4	1,121.6
1873	508.7

FIG. 7058-5D 30° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
6 3/4	4.0
171	1.8
7 1/2	7.0
191	3.2
8	10.0
203	4.5
8 3/4	13.0
222	5.9
9 1/2	16.6
241	7.5
11 1/4	28.1
298	12.7
14	43.8
356	19.9
18 3/4	87.9
476	39.9
23 1/2	155.8
597	70.7
28	228.9
711	103.8
32 3/4	294.0
832	133.4
37 1/2	385.3
953	174.8
42 1/4	489.0
1073	221.8
46 3/4	605.0
1187	274.4
56 1/4	873.9
1429	396.4

FIG. 7052-5D 22 1/2° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
6	3.6
152	1.6
6 1/2	6.2
165	2.8
7	8.8
178	4.0
7 1/2	11.3
191	5.1
8	14.3
203	6.5
10	24.1
254	10.9
12	37.6
305	17.1
16	75.4
406	34.2
20	133.7
508	60.6
24	196.4
610	89.1
28	252.3
711	114.4
32	330.7
813	150.0
36	419.7
914	190.4
40	519.2
1016	235.5
48	750.1
1219	340.2

FIG. 7053-5D 11 1/4° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
5	3.0
127	1.4
5 1/4	5.0
133	2.3
5 1/2	6.9
140	3.1
5 3/4	8.7
146	3.9
6	10.7
152	4.9
7 1/2	18.2
191	8.3
9	28.3
229	12.8
12	56.8
305	25.8
15	100.6
381	45.6
18	147.8
457	67.0
21	189.8
533	86.1
24	248.8
610	112.9
27	315.7
686	143.2
30	390.6
762	177.2
35 3/4	564.3
908	256.0

FIG. 7050 6D

Long Radius Elbows

- 6D long radius elbows are available in sizes up to 24". Sizes 4" and below are provided with a 4" (101.6 mm) long integral tangent. Remaining sizes are provided with integral tangents with lengths equal to the nominal pipe size.
- Grooved or plain-end available.
- Material: standard wall steel pipe to ASTM A 53, Grade B. (Other materials available on request).

- Bends to conform to above radii.
- C to E tolerances: 2" through 6" $\pm \frac{1}{8}$ " (3.2 mm);
8" through 16" $\pm \frac{1}{4}$ " (6.4 mm);
18" through 24" $\pm \frac{3}{8}$ " (9.5 mm).
- All weights are approximate, based on calculated weight of pipe.

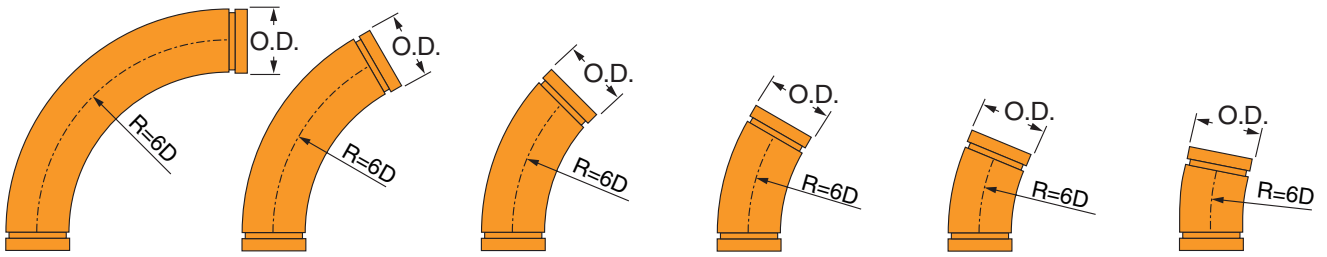


Fig. 7050-6D, 90° Elbow Fig. 7057-6D, 60° Elbow Fig. 7051-6D, 45° Elbow Fig. 7058-6D, 30° Elbow Fig. 7052-6D, 22½° Elbow Fig. 7053-6D, 11¼° Elbow

FIGURE 7050-6D 90° ELBOW			
Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
2	2.375	16	8.2
50	60.3	406	3.7
2½	2.875	19	15.2
65	73	483	6.9
3	3.500	22	22.9
80	88.9	559	10.4
3½	4.000	25	31.1
90	101.6	635	14.1
4	4.500	28	41.1
100	114.3	711	18.6
5	5.563	35	69.6
125	141.3	889	31.6
6	6.625	42	108.4
150	168.3	1067	49.2
8	8.625	56	217.5
200	219.1	1422	98.7
10	10.750	70	385.4
250	273.1	1778	174.8
12	12.750	84	566.2
300	323.9	2134	256.8
14	14.000	98	727.4
350	355.6	2489	329.9
16	16.000	112	953.3
400	406.4	2845	432.4
18	18.000	126	1,209.7
450	457.2	3200	548.7
20	20	140	1,496.6
500	508	3556	678.8
24	24	168	2,162.0
600	609.6	4267	980.7

FIG. 7057-6D 60° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
11	6.3
279	2.9
12¾	11.4
324	5.2
14½	17.0
368	7.7
16¼	22.8
413	10.3
18	29.8
457	13.5
22¼	50.5
565	22.9
26¾	78.6
679	35.7
35¾	157.7
908	71.5
44¾	279.4
1137	126.7
53½	410.5
1359	186.2
62½	527.3
1588	239.2
71½	691.1
1816	313.5
80½	877.1
2045	397.8
89¾	1,085.1
2267	492.2
107¼	1,567.5
2724	711.0

FIG. 7051-6D 45° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
9	5.3
229	2.4
10¼	9.5
260	4.3
11½	14.0
292	6.4
12¾	18.6
324	8.4
14	24.1
356	10.9
17½	40.9
445	18.6
21	63.7
533	28.9
28	127.8
711	58.0
35	226.4
889	102.7
41¾	332.7
1060	150.9
48¾	427.3
1238	193.8
55¾	560.1
1416	254.1
62¾	710.7
1594	322.4
69¾	879.3
1772	398.8
83¾	1,270.3
2127	576.2

FIG. 7058-6D 30° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
7¼	4.3
184	2.0
8	7.7
203	3.5
8¾	11.0
222	5.0
9¾	14.4
248	6.5
10½	18.5
267	8.4
13	31.3
330	14.2
15¾	48.8
400	22.1
21	97.9
533	44.4
26	173.4
660	78.7
31¼	254.8
794	115.6
36½	327.3
927	148.5
41¾	429.0
1060	194.6
47	544.4
1194	246.9
52¼	673.5
1327	305.5
62½	973.0
1588	441.3

FIG. 7052-6D 22½° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
6½	3.9
165	1.8
7	6.7
178	3.0
7½	9.5
191	4.3
8¼	12.3
210	5.6
8¾	15.7
222	7.1
11	26.5
279	12.0
13¼	41.3
337	18.7
17½	82.9
445	37.6
22	146.9
559	66.6
26¼	215.9
667	97.9
30¾	277.3
781	125.8
35¼	363.5
895	164.9
39½	461.3
1003	209.2
44	570.7
1118	258.9
52.34	824.4
1329	373.9

FIG. 7053-6D 11¼° ELBOW	
Center to End	Approx. Wt. Ea.
In./mm	Lbs./Kg
5¼	3.2
133	1.5
5½	5.3
140	2.4
5¾	7.3
146	3.3
6	9.2
152	4.2
6½	11.4
165	5.2
8	19.4
203	8.8
9½	30.1
241	13.7
12¾	60.5
324	27.4
16	107.2
406	48.6
19	157.5
483	71.4
22¼	202.3
565	91.8
25½	265.2
648	120.3
28¾	336.5
730	152.6
31¾	416.3
806	188.8
38¼	601.4
972	272.8