

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 malleable iron, 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.



For Listings/Approval Details and Limitations, visit our website at www.anvilintl.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

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 65	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. 7063

Tee w/ Threaded Branch

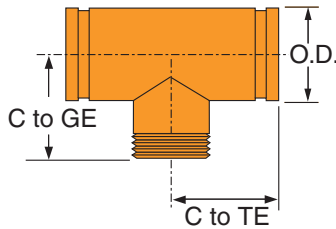


FIGURE 7063 TEE WITH THREADED BRANCH

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



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

FIG. 7061

Reducing Tee Standard

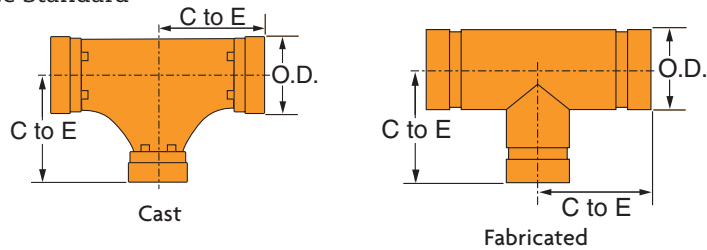


FIGURE 7061 STANDARD REDUCING TEE

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 1/4 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 1/4	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 1/4 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 50 for O.D.