

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. 7064

Reducing Tee w/ Threaded Branch

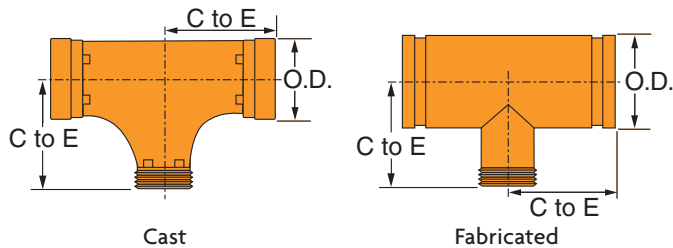


FIG. 7060

Tee

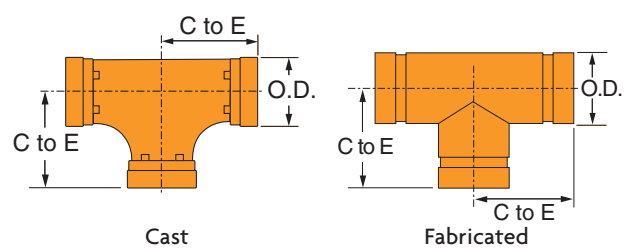


FIGURE 7064 REDUCING TEE WITH THREADED BRANCH

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
2 x 2 x 3/4	3 1/4	1.6	8 x 8 x 4	7 3/4	50.0
50 x 50 x 20	83	0.7	200 x 200 x 100	197	22.7
2 x 2 x 1	3 1/4 C	2.6	8 x 8 x 5	7 3/4	41.0
50 x 50 x 25	83	1.2	200 x 200 x 125	197	18.6
2 x 2 x 1 1/4	3 1/4	1.7	8 x 8 x 6	7 3/4	54.0
50 x 50 x 32	83	0.8	200 x 200 x 150	197	24.5
2 x 2 x 1 1/2	3 1/4 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
2 1/2 x 2 1/2 x 1	3 3/4	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
2 1/2 x 2 1/2 x 1 1/2	3 3/4	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
2 1/2 x 2 1/2 x 2	3 3/4	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 3/4	4 1/4	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	4 1/4 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 1 1/2	4 1/4	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	4 1/4	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 2 1/2	4 1/4	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 3/4	3 3/4	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	3 3/4	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 1 1/2	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 2 1/2	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	5 1/2	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	5 1/2	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	5 1/2	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	6 1/2	26.4	18 x 18 x 10	15 1/2	204.0
150 x 150 x 50	165	12	450 x 450 x 250	394	92.5
6 x 6 x 2 1/2	6 1/2	26.5	18 x 18 x 12	15 1/2	209.0
150 x 150 x 65	165	12	450 x 450 x 300	394	94.8
6 x 6 x 3	6 1/2	26.5	18 x 18 x 14	15 1/2	211.0
150 x 150 x 80	165	12	450 x 450 x 350	0	95.7
6 x 6 x 4	6 1/2	26.5	18 x 18 x 16	15 1/2	216.0
150 x 150 x 100	165	12	450 x 450 x 400	0	98.0
6 x 6 x 5	6 1/2	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	7 3/4	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	7 3/4	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 malleable or ductile iron, all others are fabricated steel.
See Fitting Size chart on page 50 for O.D.

FIGURE 7060 - TEE

Nominal Size	O.D.	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg
1	1.315	2 1/4 C	0.9
25	33.4	57	0.4
1 1/4	1.660	2 3/4 C	1.5
32	42.2	70	0.7
1 1/2	1.900	2 3/4 C	1.8
40	48.3	70	0.8
2	2.375	3 1/4 C	2.4
50	60.3	83	1.1
2 1/2	2.875	3 3/4 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	4 1/4 C	5.8
80	88.9	108	2.6
3 1/2	4.000	4 1/2 C	9.8
90	101.6	114	4.4
4 1/4 O.D.	4.250	4 3/4 C	9.3
108.0	108.0	121	4.2
4	4.500	5 C	10.3
100	114.3	127	4.7
5 1/4 O.D.	5.236	5 1/4 C	14.1
133.0	133.0	133	6.4
5 1/2 O.D.	5.500	5 1/2 C	16.1
139.7	139.7	140	7.3
5	5.563	5 1/2 C	16.2
125	141.3	140	7.3
6 1/4 O.D.	6.259	6 C	20.8
159.0	159.0	152	9.4
6 1/2 O.D.	6.500	6 1/2 C	24.4
165.1	165.1	165	11.1
6	6.625	6 1/2 C	25.7
150	168.3	165	11.7
8	8.625	7 3/4 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	15 1/2	218.0
450	457.2	394	98.9
20	20.000	17 1/4	275.0
500	508.0	438	125
24	24.000	20	379.0
600	609.6	508	172



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