

Reducing Tee Standard Fig. 7061



Material Specifications

Cast Fittings

Ductile iron conforming to ASTM A536, Grade 65-45-12

Malleable iron conforming to ASTM A47

Fabricated Fittings

1-12" Carbon steel, Schedule 40, conforming to ASTM A53, Grade B

14-24" Carbon steel, 0.375 wall, conforming to ASTM A53, Grade B

Coatings

Rust inhibiting paint
Color: Orange (standard)

Hot Dipped Zinc Galvanized conforming to ASTM A153 (optional)

Other Colors Available
(IE: RAL3000 and RAL9000)

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.

For Listings/Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions™ Sales Representative.



PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Reducing Tee Standard Fig. 7061



Flow Data - Frictional Resistance (Expressed as Equivalent Straight Pipe)

Nominal 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	1.315	0.133	1.7	0.9	4.4	1.7
25	33.4	3.4	0.5	0.3	1.3	0.5
1¼	1.660	0.140	2.3	1.2	5.8	2.3
32	42.2	3.6	0.7	0.4	1.8	0.7
1½	1.900	0.145	2.7	1.3	6.7	2.7
40	48.3	3.7	0.8	0.4	2.0	0.8
2	2.375	0.154	3.4	1.7	8.6	3.4
50	60.3	3.9	1.0	0.5	2.6	1.0
2½	2.875	0.203	4.1	2.1	10.3	4.1
65	73.0	5.2	1.2	0.6	3.1	1.2
3 O.D.	2.996	0.197	4.3	2.2	10.8	4.3
76.1	76.1	5.0	1.3	0.7	3.3	1.3
3	3.500	0.216	5.1	2.6	12.8	5.1
80	88.9	5.5	1.6	0.8	3.9	1.6
4¼ O.D.	4.250	0.220	6.4	3.2	16.1	6.4
108.0	108.0	5.6	2.0	1.0	4.9	2.0
4	4.500	0.237	6.7	3.4	16.8	6.7
100	114.3	6.0	2.0	1.0	5.1	2.0
5¼ O.D.	5.236	0.248	8.0	4.0	20.1	8.0
133.0	133.0	6.3	2.4	1.2	6.1	2.4
5½ O.D.	5.500	0.248	8.3	4.2	20.9	8.3
139.7	139.7	6.3	2.5	1.3	6.4	2.5
5	5.563	0.258	8.4	4.2	21.0	8.4
125	141.3	6.6	2.6	1.3	6.4	2.6
6¼ O.D.	6.259	0.280	9.7	4.9	24.3	9.7
159.0	159.0	7.1	3.0	1.5	7.4	3.0
6½ O.D.	6.500	0.280	10.0	5.0	24.9	10.0
165.1	165.1	7.1	3.0	1.5	7.6	3.0
6	6.625	0.280	10.1	5.1	25.3	10.1
150	168.3	7.1	3.1	1.6	7.7	3.1
8	8.625	0.322	13.3	6.7	33.3	13.3
200	219.1	8.2	4.1	2.0	10.1	4.1
10	10.750	0.365	16.7	8.4	41.8	16.7
250	273.1	9.3	5.1	2.6	12.7	5.1
12	12.750	0.375	20.0	10.0	50.0	20.0
300	323.9	9.5	6.1	3.0	15.2	6.1
14	14.000	0.375	22.2	11.7	64.2	22.9
350	355.6	9.5	6.8	3.4	19.6	7.0
16	16.000	0.375	25.5	12.4	73.9	26.4
400	406.4	9.5	7.8	3.9	22.5	8.0
18	18.000	0.375	28.9	14.1	87.2	31.1
450	457.2	9.5	8.8	4.4	26.6	9.5
20	20.000	0.375	32.2	15.7	97.3	34.8
500	508.0	9.5	9.8	4.9	29.7	10.6
24	24.000	0.375	38.9	19.1	113.0	40.4
600	609.6	9.5	11.9	5.9	34.4	12.3

Note:

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).

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.

Fitting Size

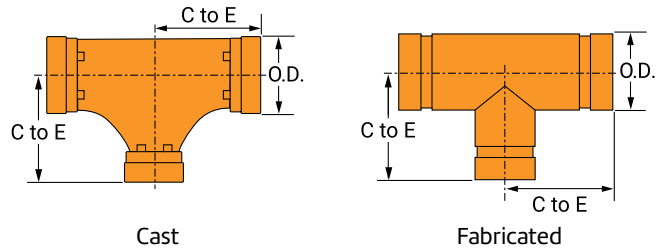
Nominal Size	O.D.
In./DN(mm)	In./mm
1	1.315
25	33.4
1¼	1.660
32	42.4
1½	1.900
40	48.3
2	2.375
50	60.3
2½	2.875
65	73.0
3 O.D.	2.996
76.1	76.1
3	3.500
80	88.9
3½	4.000
90	101.6
4¼ O.D.	4.250
108.0	108.0
4	4.500
100	114.3
5¼ O.D.	5.236
133.0	133.0
5½ O.D.	5.500
139.7	139.7
5	5.563
140	141.3
6¼ O.D.	6.259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



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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
1¼ x 1¼ x 1 32 x 32 x 25	2¾ 70	1.5 0.7	5 x 5 x 2 125 x 125 x 50	5½ 140	14.0 6.4	10 x 10 x 8 250 x 250 x 200	9 229	64.7 29.3
1½ x 1½ x 1 40 x 40 x 25	2¾ 70	1.8 0.8	5 x 5 x 2½ 125 x 125 x 65	5½ 140	14.3 6.5	12 x 12 x 4 300 x 300 x 100	10 254	75.1 34.1
1½ x 1½ x 1¼ 40 x 40 x 32	2¾ 70	1.8 0.8	5 x 5 x 3 125 x 125 x 80	5½ 140	14.6 6.6	12 x 12 x 5 300 x 300 x 125	10 254	75.6 34.3
2 x 2 x 1 50 x 50 x 25	3¼ C 83	2.6 1.2	5 x 5 x 4 125 x 125 x 100	5½ C 140	17.9 8.1	12 x 12 x 6 300 x 300 x 150	10 254	76.2 34.6
2 x 2 x 1¼ 50 x 50 x 32	3¼ 83	1.7 0.8	6 x 6 x 1 150 x 150 x 25	6½ 165	20.5 9.3	12 x 12 x 8 300 x 300 x 200	10 254	76.3 34.6
2 x 2 x 1½ 50 x 50 x 40	3¼ C 83	2.7 1.2	6 x 6 x 1¼ 150 x 150 x 32	6½ 165	20.7 9.4	12 x 12 x 10 300 x 300 x 250	10 254	77.6 35.2
2½ x 2½ x 1 65 x 65 x 25	3¾ 95	4.1 1.9	6 x 6 x 1½ 150 x 150 x 40	6½ 165	21.0 9.5	14 x 14 x 6 350 x 350 x 150	11 279	101.0 45.8
2½ x 2½ x 1¼ 65 x 65 x 32	3¾ 95	4.2 1.9	6 x 6 x 2 150 x 150 x 50	6½ C 165	26.4 12.0	14 x 14 x 8 350 x 350 x 200	11 279	103.0 46.7
2½ x 2½ x 1½ 65 x 65 x 40	3¾ 95	4.3 2.0	6 x 6 x 2½ 150 x 150 x 65	6½ C 165	26.5 12.0	14 x 14 x 10 350 x 350 x 250	11 279	104.0 47.2
2½ x 2½ x 2 65 x 65 x 50	3¾ 95	4.4 2.0	6 x 6 x 3 150 x 150 x 80	6½ C 165	26.5 12.0	14 x 14 x 12 350 x 350 x 300	11 279	105.0 47.6
3 x 3 x 1 80 x 80 x 25	4¼ C 108	7.0 3.2	6 x 6 x 4 150 x 150 x 100	6½ C 165	26.5 12.0	16 x 16 x 10 400 x 400 x 250	12 305	129.0 58.5
3 x 3 x 1¼ 80 x 80 x 32	4¼ 108	5.8 2.6	6 x 6 x 5 150 x 150 x 125	6½ C 165	28.0 12.7	16 x 16 x 12 400 x 400 x 300	12 305	130.0 59.0

Note:

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

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

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



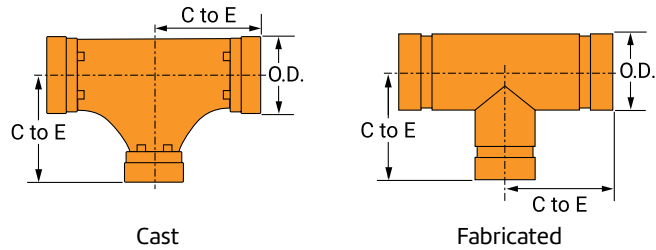
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Nominal Size	Center to End	Approx. Wt. Ea.	Nominal Size	Center to End	Approx. Wt. Ea.	Nominal Size	Center to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	Lbs./kg	In./DN(mm)	In./mm	Lbs./kg	In./DN(mm)	In./mm	Lbs./kg
3 x 3 x 1½ 80 x 80 x 40	4¼ 108	5.9 2.7	8 x 8 x 2 200 x 200 x 50	7¾ 197	32.7 14.8	16 x 16 x 14 400 x 400 x 350	12 305	132.0 59.9
3 x 3 x 2 80 x 80 x 50	4¼ C 108	5.5 2.5	8 x 8 x 2½ 200 x 200 x 65	7¾ 197	33.0 15.0	18 x 18 x 10 450 x 450 x 250	15½ 394	194.0 88.0
3 x 3 x 2½ 80 x 80 x 65	4¼ 108	6.3 2.9	8 x 8 x 3 200 x 200 x 80	7¾ 197	33.5 15.2	18 x 18 x 12 450 x 450 x 300	15½ 394	196.0 88.9
4 x 4 x 1 100 x 100 x 25	3¾ 95	7.0 3.2	8 x 8 x 4 200 x 200 x 100	7¾ C 197	50.0 22.7	18 x 18 x 14 450 x 450 x 350	15½ 394	201.0 91.2
4 x 4 x 1¼ 100 x 100 x 32	5 127	9.6 4.4	8 x 8 x 5 200 x 200 x 125	7¾ 197	34.7 15.7	18 x 18 x 16 450 x 450 x 400	15½ 394	203.0 92.1
4 x 4 x 1½ 100 x 100 x 40	5 127	10.2 4.6	8 x 8 x 6 200 x 200 x 150	7¾ C 197	54.0 24.5	20 x 20 x 12 500 x 500 x 300	17¼ 438	246.0 111.6
4 x 4 x 2 100 x 100 x 50	5 C 127	10.2 4.6	10 x 10 x 2 250 x 250 x 50	9 229	52.2 23.7	20 x 20 x 14 500 x 500 x 350	17¼ 438	248.0 112.5
4 x 4 x 2½ 100 x 100 x 65	5 C 127	11.2 5.1	10 x 10 x 2½ 250 x 250 x 65	9 229	52.6 23.9	20 x 20 x 16 500 x 500 x 400	17¼ 438	250.0 113.4
4 x 4 x 3 100 x 100 x 80	5 C 127	11.4 5.2	10 x 10 x 3 250 x 250 x 80	9 229	53.0 24.0	20 x 20 x 18 500 x 500 x 450	17¼ 438	252.0 114.3
5 x 5 x 1 125 x 125 x 25	5½ 140	13.6 6.2	10 x 10 x 4 250 x 250 x 100	9 229	53.6 24.3	24 x 24 x 16 600 x 600 x 400	20 508	342.0 155.1
5 x 5 x 1¼ 125 x 125 x 32	5½ 140	13.7 6.2	10 x 10 x 5 250 x 250 x 125	9 229	54.2 24.6	24 x 24 x 18 600 x 600 x 450	20 508	345.0 156.5
5 x 5 x 1½ 125 x 125 x 40	5½ 140	13.8 6.3	10 x 10 x 6 250 x 250 x 150	9 229	55.0 24.9	24 x 24 x 20 600 x 600 x 500	20 508	347.0 157.4

Note:

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

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