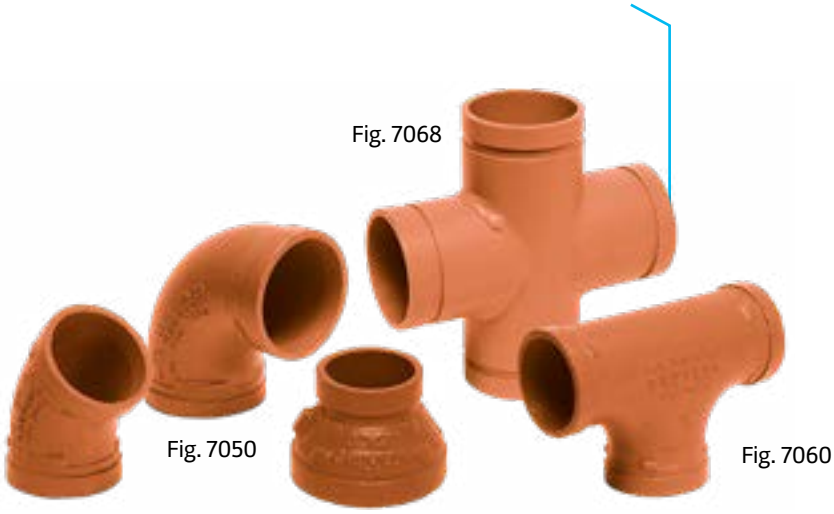
Gruvlok® Fittings for Grooved-End Pipe

☐ **Fig. 7060** Tee
☐ **Fig. 7076** Concentric Reducer (GR x THD)



Galvanized Gruvlok Fittings are NSF-61 and Low Lead Approved

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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:	

Tee & Concentric Reducer
Fig. 7060, 7076

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 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
1 ¼ 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
1 ½ 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
2 ½ 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
4 ¼ 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
5 ¼ 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
5 ½ 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
6 ¼ 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
6 ½ 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

Fitting Size

Nominal Size	O.D.
In./DN(mm)	In./mm
1 25	1.315 33.4
1 ¼ 32	1.660 42.4
1 ½ 40	1.900 48.3
2 50	2.375 60.3
2 ½ 65	2.875 73.0
3 O.D. 76.1	2.996 76.1
3 80	3.500 88.9
3 ½ 90	4.000 101.6
4 ¼ O.D. 108.0	4.250 108.0
4 100	4.500 114.3
5 ¼ O.D. 133.0	5.236 133.0
5 ½ O.D. 139.7	5.500 139.7
5 140	5.563 141.3
6 ¼ O.D. 159.0	6.259 159.0
6 ½ O.D. 165.1	6.500 165.1
6 150	6.625 168.3
8 200	8.625 219.1
10 250	10.750 273.0
12 300	12.750 323.9
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

Note:

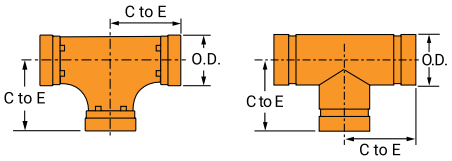
For the reducing tee and branches, use the value that is corresponding to the branch size. For example: for 6" x 6" x 3" tee, the branch value of 3" is 12.8 ft (3.9).

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.

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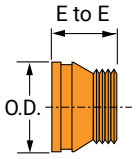
Building connections that last™

Fig. 7060
Tee



Nominal Size	O.D.	Center to End		Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm		Lbs./kg
1 25.0	1.315 33.4	2 ¼ C 57		0.9 0.4
1 ¼ 32.0	1.660 42.2	2 ¾ C 70		1.5 0.7
1 ½ 40.0	1.9 48.3	2 ¾ C 70		1.8 0.8
2 50.0	2.375 60.3	3 ¼ C 83		2.4 1.1
2 ½ 65.0	2.875 73.0	3 ¾ C 95		4.0 1.8
3 O.D. 76.1	2.996 76.1	4 C 101		4.6 2.1
3 80.0	3.500 88.9	4 ¼ C 108		5.8 2.6
3 ½ 90.0	4.000 101.6	4 ½ C 114		9.8 4.4
4 ¼ O.D. 108.0	4.250 108.0	4 ¾ C 121		9.3 4.2
4 100.0	4.500 114.3	5 C 127		10.3 4.7
5 ¼ O.D. 133.0	5.236 133.0	5 ¼ C 133		14.1 6.4
5 ½ O.D. 139.7	5.500 139.7	5 ½ C 140		16.1 7.3
5 125.0	5.563 141.3	5 ½ C 140		16.2 7.3
6 ¼ O.D. 159.0	6.259 159.0	6 C 152		20.8 9.4
6 ½ O.D. 165.1	6.500 165.1	6 ½ C 165		24.4 11.1
6 150.0	6.625 168.3	6 ½ C 165		25.7 11.7
8 200.0	8.625 219.1	7 ¾ C 197		41.1 18.6
10 250.0	10.750 273.1	9 C 229		74.5 33.8
12 300.0	12.750 323.9	10 C 254		94.7 43.0
		Cast	Fab	
14 350.0	14.000 355.6	11 C 279	11 F 279	181.0 82.1
16 400.0	16.000 406.4	12 C 305	12 F 305	223.0 101.2
18 450.0	18.000 457.2	13 ½ C 343	15 ½ F 394	334.0 151.5
20 500.0	20.000 508.0	15 C 381	17 ¼ F 438	413.0 187.3
24 600.0	24.000 609.6	17 C 432	20 F 508	609.0 276.2

Fig. 7076
Concentric Reducer (GR x THD)



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 ½ x 1 40 x 25	2 ½ 6 4	0.6 0.3	3 x 2 ½ 80 x 65	2 ½ 64	1.5 0.7
2 x ¾ 50 x 80	2 ½ 64	1.0 0.5	4 x 1 100 x 25	3 76	2.2 1.0
2 x 1 50 x 25	2 ½ 64	0.8 0.4	4 x 1 ¼ 100 x 32	3 76	2.3 1.0
2 x 1 ¼ 50 x 32	2 ½ 64	1.3 0.6	4 x 1 ½ 100 x 40	3 76	2.3 1.0
2 x 1 ½ 50 x 40	2 ½ 64	1.3 0.6	4 x 2 100 x 50	3 76	2.3 1.0
2 ½ x 1 65 x 25	2 ½ 64	1.0 0.5	4 x 2 ½ 100 x 65	3 76	2.3 1.0
2 ½ x 1 ¼ 65 x 32	2 ½ 64	1.0 0.5	4 x 3 100 x 80	3 76	2.6 1.2
2 ½ x 1 ½ 65 x 40	2 ½ 64	1.3 0.6	5 x 4 125 x 100	3 ½ 89	4.5 2.0
2 ½ x 2 65 x 50	2 ½ 64	1.2 0.5	6 x 1 150 x 25	4 102	6.0 2.7
3 x ¾ 80 x 80	2 ½ 64	1.2 0.5	6 x 1 ¼ 150 x 32	4 102	6.0 2.7
3 x 1 80 x 25	2 ½ 64	1.2 0.5	6 x 1 ½ 150 x 40	4 102	6.0 2.7
3 x 1 ¼ 80 x 32	2 ½ 64	1.3 0.6	6 x 2 150 x 50	4 102	6.0 2.7
3 x 1 ½ 80 x 40	2 ½ 64	1.3 0.6	6 x 3 150 x 80	4 102	6.0 2.7
3 x 2 80 x 50	2 ½ 64	1.3 0.6	6 x 4 150 x 100	4 102	5.9 2.7

Note:

All are Fabricated Steel.

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

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

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

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