

FIG. 7073 & FIG. 7097

Eccentric Reducers

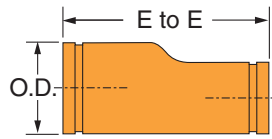


Fig. 7073- Gr. x Gr.
Fabricated

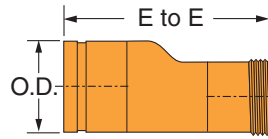


Fig. 7097 - Gr. x Thd.
Fabricated

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

Fabricated Steel *Figure 7097 is available in sizes 1 1/4 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 next page for O.D.



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

PROJECT INFORMATION

APPROVAL STAMP

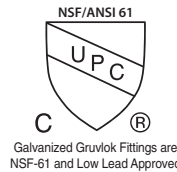
Project:	<input type="checkbox"/> Approved
Address:	<input type="checkbox"/> Approved as noted
Contractor:	<input type="checkbox"/> Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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.

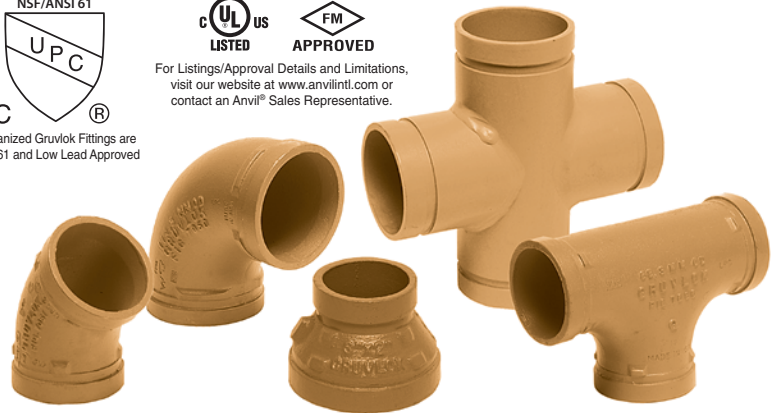
These fittings are designed to provide minimum pressure drop and uniform strength.

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.



Galvanized Gruvlok Fittings are NSF-61 and Low Lead Approved



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	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	4.0	22.5	8.0
18	18.000	0.375	28.9	14.1	87.2	31.1
450	457.2	9.5	8.8	4.5	26.6	9.5
20	20.000	0.375	32.2	16.1	97.3	34.8
500	508.0	9.5	9.8	5.0	29.7	10.6
24	24.000	0.375	38.9	19.4	113.0	40.4
600	609.6	9.5	11.9	6.0	34.4	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:

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