

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. 7072 – Gr x Gr Concentric Reducers

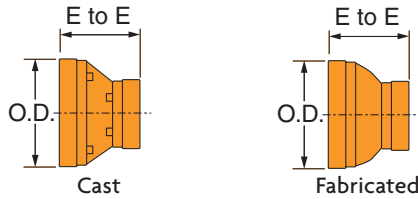
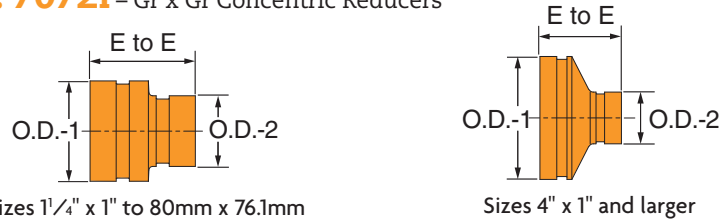


FIGURE 7072 CONCENTRIC REDUCER

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
1¼ x 1 32 x 25	2½ 64	0.6 0.3	8 x 4 200 x 100	5 C 127	9.0 4.1
1½ x 1 40 x 25	2½ 64	0.6 0.3	8 x 5 200 x 125	5 127	11.5 5.2
1½ x 1¼ 40 x 32	2½ 64	0.6 0.3	8 x 6 200 x 150	5 C 127	10.6 4.8
2 x 1 50 x 25	2½ 64	0.8 0.4	10 x 4 250 x 100	6 152	20 9.1
2 x 1¼ 50 x 32	2½ C 64	1.3 0.6	10 x 5 250 x 125	6 152	20 9.1
2 x 1½ 50 x 40	2½ C 64	1.3 0.6	10 x 6 250 x 150	6 C 152	20 9.1
2½ x 1 65 x 25	2½ 64	1.0 0.5	10 x 8 250 x 200	6 152	23.9 10.8
2½ x 1¼ 65 x 32	2½ 64	1.0 0.5	12 x 4 300 x 100	7 178	25 11.3
2½ x 1½ 65 x 40	2½ 64	1.3 0.6	12 x 6 300 x 150	7 178	29 13.2
2½ x 2 65 x 50	2½ C 64	1.6 0.7	12 x 8 300 x 200	7 178	29 13.2
3 x 1 80 x 25	2½ 64	1.2 0.5	12 x 10 300 x 250	7 178	32.4 14.7
3 x 1¼ 80 x 32	2½ 64	1.3 0.6	14 x 6 350 x 150	13 330	54.3 24.6
3 x 1½ 80 x 40	2½ 64	1.3 0.6	14 x 8 350 x 200	13 330	54.5 24.7
3 x 2 80 x 50	2½ C 64	1.4 0.6	14 x 10 350 x 250	13 330	55.7 25.3
3 x 2½ 80 x 65	2½ C 64	1.5 0.7	14 x 12 350 x 300	13 330	57.3 26.0
3½ x 3 90 x 80	3 76	1.8 0.8	16 x 8 400 x 200	14 356	65.4 29.7
4 x 1 100 x 25	3 76	2.2 1.0	16 x 10 400 x 250	14 356	66.7 30.3
4 x 1¼ 100 x 32	3 76	2.2 1.0	16 x 12 400 x 300	14 356	68.1 30.9
4 x 1½ 100 x 40	3 76	2.3 1.0	16 x 14 400 x 350	14 356	71.0 32.2
4 x 2 100 x 50	3 C 76	2.4 1.1	18 x 10 450 x 250	15 381	82.3 37.3
4 x 2½ 100 x 65	3 C 76	2.6 1.2	18 x 12 450 x 300	15 381	83.6 37.9
4 x 3 100 x 80	3 C 76	3.2 1.5	18 x 14 450 x 350	15 381	86.2 39.1
4 x 3½ 100 x 90	3 76	3.6 1.6	18 x 16 450 x 400	15 381	87.2 39.6
5 x 2 125 x 50	3½ 89	4.6 2.1	20 x 10 500 x 250	20 508	123.0 55.8
5 x 2½ 125 x 65	3½ 89	4.5 2.0	20 x 12 500 x 300	20 508	125.0 56.7
5 x 3 125 x 80	3½ 89	4.4 2.0	20 x 14 500 x 350	20 508	129.0 58.5
5 x 4 125 x 100	3½ C 89	4.5 2.0	20 x 16 500 x 400	20 508	131.0 59.4
6 x 1 150 x 25	4 102	6.8 3.1	20 x 18 500 x 450	20 508	133.0 60.3
6 x 1½ 150 x 40	4 102	6.9 3.1	24 x 10 600 x 250	20 508	147.0 66.7
6 x 2 150 x 50	4 C 102	6.0 2.7	24 x 12 600 x 300	20 508	149.0 67.6
6 x 2½ 150 x 65	4 102	6.0 2.7	24 x 14 600 x 350	20 508	152.0 68.9
6 x 3 150 x 80	4 C 102	5.4 2.4	24 x 16 600 x 400	20 508	153.0 69.4
6 x 4 150 x 100	4 C 102	5.6 2.5	24 x 18 600 x 450	20 508	154.0 69.9
6 x 5 150 x 125	4 C 102	6.0 2.7	24 x 20 600 x 500	20 508	155.0 70.3
8 x 3 200 x 80	5 127	12.0 5.5			

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

FIG. 7072i – Gr x Gr Concentric Reducers



Sizes 1¼" x 1" to 80mm x 76.1mm

Sizes 4" x 1" and larger

FIGURE 7072i CONCENTRIC REDUCER

Nominal Size	O.D.	End to End	Approx. Wt. Ea.	Nominal Size	O.D.	End to End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs/Kg	In./DN(mm)	In./mm	In./mm	Lbs/Kg
1¼ x 1 32 x 25	1.660 x 1.315 42.2 x 33.4	2½ 63.5	0.5 0.227	5½ O.D. x 3 139.7 x 80	5.500 x 3.500 139.7 x 88.9	3½ 88.9	4.0 1.814
1½ x 1 40 x 25	1.900 x 1.315 48.3 x 33.4	2½ 63.5	0.5 0.227	5½ O.D. x 4 139.7 x 100	5.500 x 4.500 139.7 x 114.3	3½ 88.9	4.0 1.814
1½ x 1¼ 40 x 32	1.900 x 1.660 48.3 x 42.2	2½ 63.5	1.0 .454	5 x 2 125 x 50	5.563 x 2.375 141.3 x 60.3	3½ 88.9	4.0 1.814
2 x 1 50 x 25	2.375 x 1.315 60.3 x 33.4	2½ 63.5	1.0 .454	5 x 2½ 125 x 65	5.563 x 2.875 141.3 x 73.0	3½ 88.9	4.0 1.814
2 x 1¼ 50 x 32	2.375 x 1.660 60.3 x 42.2	2½ 63.5	1.0 .454	5 x 3 125 x 80	5.563 x 3.500 141.3 x 88.9	3½ 88.9	4.0 1.814
2 x 1½ 50 x 40	2.375 x 1.900 60.3 x 48.3	2½ 63.5	1.0 .454	5 x 4 125 x 100	5.563 x 4.5 141.3 x 114.3	3½ 88.9	5.0 2.041
2½ x 1 65 x 25	2.875 x 1.315 73.0 x 33.4	2½ 63.5	1.5 0.680	6½ O.D. x 3 O.D. 165.1 x 76.1	6.500 x 2.996 165.1 x 76.1	4 101.6	5.0 2.268
2½ x 1¼ 65 x 32	2.875 x 1.660 73.0 x 42.2	2½ 63.5	1.5 0.680	6½ O.D. x 3 165.1 x 80	6.500 x 3.500 165.1 x 88.9	4 101.6	5.5 2.495
2½ x 1½ 65 x 40	2.875 x 1.900 73.0 x 48.3	2½ 63.5	1.5 0.680	6½ O.D. x 4 165.1 x 100	6.500 x 4.500 165.1 x 114.3	4 101.6	6.0 2.720
2½ x 2 65 x 50	2.875 x 2.375 73.0 x 60.3	2½ 63.5	1.5 0.680	6½ O.D. x 5½ O.D. 165.1 x 139.7	6.500 x 5.500 165.1 x 139.7	4 101.6	6.5 2.948
3 O.D. x 1 76.1 x 25	2.996 x 1.315 76.1 x 33.4	2½ 63.5	1.5 0.680	6 x 2 150 x 50	6.625 x 2.375 168.3 x 60.3	4 101.6	5.0 2.268
3 O.D. x 1¼ 76.1 x 32	2.996 x 1.660 76.1 x 42.2	2½ 63.5	1.5 0.680	6 x 2½ 150 x 65	6.625 x 2.875 168.3 x 73.0	4 101.6	5.5 2.495
3 O.D. x 1½ 76.1 x 40	2.996 x 1.900 76.1 x 48.3	2½ 63.5	1.5 0.680	6 x 3 O.D. 150 x 76.1	6.625 x 2.996 168.3 x 76.1	4 101.6	5.5 2.495
3 O.D. x 2 76.1 x 50	2.996 x 2.375 76.1 x 60.3	2½ 63.5	1.5 0.680	6 x 3 150 x 80	6.625 x 3.500 168.3 x 88.9	4 101.6	5.5 2.495
3 x 1½ 80 x 40	3.500 x 1.900 88.9 x 48.3	2½ 63.5	1.5 0.680	6 x 4 150 x 100	6.625 x 4.500 168.3 x 114.3	4 101.6	6.5 2.948
3 x 2 80 x 50	3.500 x 2.375 88.9 x 60.3	2½ 63.5	2.0 0.907	6 x 5½ O.D. 150 x 139.7	6.625 x 5.500 168.3 x 139.7	4 101.6	6.5 2.948
3 x 2½ 80 x 65	3.500 x 2.875 88.9 x 73.0	2½ 63.5	2.0 0.907	6 x 5 150 x 125	6.625 x 5.563 168.3 x 141.3	4 101.6	6.0 2.720
3 x 3 O.D. 80 x 76.1	3.500 x 2.996 88.9 x 76.1	2½ 63.5	2.0 0.907	6 x 6½ O.D. 150 x 165.1	6.625 x 6.500 168.3 x 165.1	4 101.6	7.5 3.402
4 x 1 100 x 25	4.500 x 1.315 114.3 x 33.4	3 76.2	2.5 1.134	8 x 4 200 x 100	8.625 x 4.500 219.1 x 114.3	5 127.0	10.0 4.536
4 x 1½ 100 x 40	4.500 x 1.900 114.3 x 48.3	3 76.2	2.5 1.134	8 x 6½ O.D. 200 x 165.1	8.625 x 6.500 219.1 x 165.1	5 127.0	11.0 4.990
4 x 2 100 x 50	4.500 x 2.375 114.3 x 60.3	3 76.2	2.5 1.134	8 x 6 200 x 150	8.625 x 6.625 219.1 x 168.3	5 127.0	11.0 4.990
4 x 2½ 100 x 65	4.500 x 2.875 114.3 x 73.0	3 76.2	2.5 1.134	10 x 8 250 x 200	10.750 x 8.675 273.1 x 219.1	6 152.4	19.5 8.845
4 x 3 O.D. 100 x 76.1	4.500 x 2.996 114.3 x 76.1	3 76.2	2.5 1.134				
4 x 3 100 x 80	4.500 x 3.500 114.3 x 88.9	3 76.2	2.5 1.134				
5½ O.D. x 3 O.D. 139.7 x 76.1	5.500 x 2.996 139.7 x 76.1	3½ 88.9	4.0 1.814				

All 7072i fittings are cast ductile iron.



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