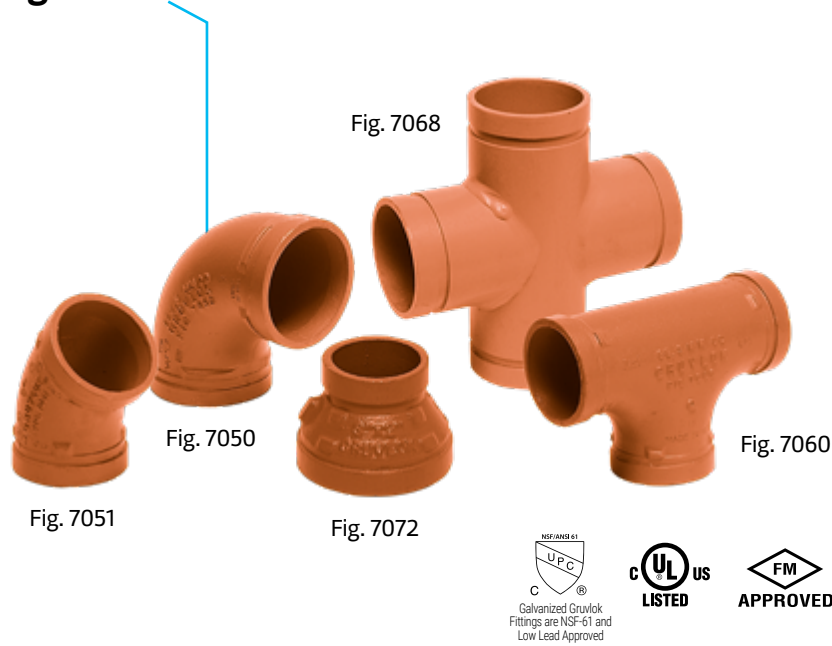


## Concentric Reducer (GR x GR) Fig. 7072



### 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](http://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:	

## Concentric Reducer (GR x GR) Fig. 7072

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
1 ¼	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
1 ½	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
2 ½	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
4 ¼ 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
5 ¼ 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
5 ½ 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
6 ¼ 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
6 ½ 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	5.4	19.6	7.0
16	16.000	0.375	25.5	12.4	73.9	26.4
400	406.4	9.5	7.8	6.2	22.5	8.0
18	18.000	0.375	28.9	14.5	87.2	31.1
450	457.2	9.5	8.8	7.0	26.6	9.5
20	20.000	0.375	32.2	16.1	97.3	34.8
500	508.0	9.5	9.8	7.8	29.7	10.6
24	24.000	0.375	38.9	19.5	113.0	40.4
600	609.6	9.5	11.9	9.5	34.4	12.3

Fitting Size

Nominal Size	O.D.
In./DN(mm)	In./mm
1	1.315
25	33.4
1 ¼	1.660
32	42.4
1 ½	1.900
40	48.3
2	2.375
50	60.3
2 ½	2.875
65	73.0
3 O.D.	2.996
76.1	76.1
3	3.500
80	88.9
3 ½	4.000
90	101.6
4 ¼ O.D.	4.250
108.0	108.0
4	4.500
100	114.3
5 ¼ O.D.	5.236
133.0	133.0
5 ½ O.D.	5.500
139.7	139.7
5	5.563
140	141.3
6 ¼ O.D.	6.259
159.0	159.0
6 ½ 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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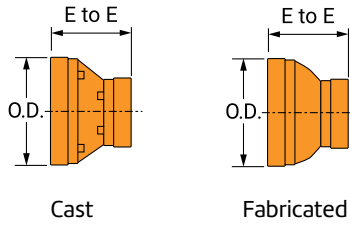
**Note:**

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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## Concentric Reducer (GR x GR) Fig. 7072



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 ¼ x 1	2 ½	0.6	4 x 1 ¼	3	2.3	8 x 5	5	11.5	18 x 10	15	82.3
32 x 25	64	0.3	100 x 40	76	1.0	200 x 125	127	5.2	450 x 250	381	37.3
1 ½ x 1	2 ½	0.6	4 x 2	3 C	2.4	8 x 6	5 C	10.6	18 x 12	15	83.6
40 x 25	64	0.3	100 x 50	76	1.1	200 x 150	127	4.8	450 x 300	381	37.9
1 ½ x 1 ¼	2 ½	0.6	4 x 2 ½	3 C	2.6	10 x 4	6	20.0	18 x 14	15	86.2
40 x 32	64	0.3	100 x 65	76	1.2	250 x 100	152	9.1	450 x 350	381	39.1
2 x 1	2 ½	0.8	4 x 3	3 C	3.2	10 x 5	6	20.0	18 x 16	15	87.2
50 x 25	64	0.4	100 x 80	76	1.5	250 x 125	152	9.1	450 x 400	381	39.6
2 x 1 ¼	2 ½ C	1.3	4 x 3 ½	3	3.6	10 x 6	6 C	20.0	20 x 10	20	123.0
50 x 32	64	0.6	100 x 90	76	1.6	250 x 150	152	9.1	500 x 250	508	55.8
2 x 1 ½	2 ½ C	1.3	5 x 2	3 ½	4.6	10 x 8	6 C	23.9	20 x 12	20	125.0
50 x 40	64	0.6	125 x 50	89	2.1	250 x 200	152	10.8	500 x 300	508	56.7
2 ½ x 1	2 ½	1.0	5 x 2 ½	3 ½	4.5	12 x 4	7	25.0	20 x 14	20	129.0
65 x 25	64	0.5	125 x 65	89	2.0	300 x 100	178	11.3	500 x 350	508	58.5
2 ½ x 1 ¼	2 ½	1.0	5 x 3	3 ½	4.4	12 x 6	7	29.0	20 x 16	20	131.0
65 x 32	64	0.5	125 x 80	89	2.0	300 x 150	178	13.2	500 x 400	508	59.4
2 ½ x 1 ½	2 ½	1.3	5 x 4	3 ½ C	4.5	12 x 8	7	29.0	20 x 18	20	133.0
65 x 40	64	0.6	125 x 100	89	2.0	300 x 200	178	13.2	500 x 450	508	60.3
2 ½ x 2	2 ½ C	1.6	6 x 1	4	6.8	12 x 10	7	32.4	24 x 10	20	147.0
65 x 50	64	0.7	150 x 25	102	3.1	300 x 250	178	14.7	600 x 250	508	66.7
3 x 1	2 ½	1.2	6 x 1 ½	4	6.9	14 x 6	13	54.3	24 x 12	20	149.0
80 x 25	64	0.5	150 x 40	102	3.1	350 x 150	330	24.6	600 x 300	508	67.6
3 x 1 ¼	2 ½	1.3	6 x 2	4 C	6.0	14 x 8	13	54.5	24 x 14	20	152.0
80 x 32	64	0.6	150 x 50	102	2.7	350 x 200	330	24.7	600 x 350	508	68.9
3 x 1 ½	2 ½	1.3	6 x 2 ½	4	6.0	14 x 10	13	55.7	24 x 16	20	153.0
80 x 40	64	0.6	150 x 65	102	2.7	350 x 250	330	25.3	600 x 400	508	69.4
3 x 2	2 ½ C	1.4	6 x 3	4 C	5.4	14 x 12	13	57.3	24 x 18	20	154.0
80 x 50	64	0.6	150 x 80	102	2.4	350 x 300	330	26.0	600 x 450	508	69.9
3 x 2 ½	2 ½ C	1.5	6 x 4	4 C	5.6	16 x 8	14	65.4	24 x 20	20	155.0
80 x 65	64	0.7	150 x 100	102	2.5	400 x 200	356	29.7	600 x 500	508	70.3
3 ½ x 3	3	1.8	6 x 5	4 C	6.0	16 x 10	14	66.7			
90 x 80	76	0.8	150 x 125	102	2.7	400 x 250	356	30.3			
4 x 1	3	2.2	8 x 3	5	12.0	16 x 12	14	68.1			
100 x 25	76	1.0	200 x 80	127	5.5	400 x 300	356	30.9			
4 x 1 ¼	3	2.2	8 x 4	5 C	9.0	16 x 14	14	71.0			
100 x 32	76	1.0	200 x 100	127	4.1	400 x 350	356	32.2			

**Note:**  
See Fitting Size chart on previous page for O.D.



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