

FIG. 7069

45° Lateral

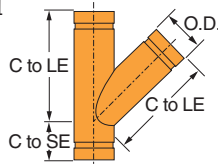


FIGURE 7069 LATERAL

Nominal Size	O.D.	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1 25	1.315 33.4	5 127	2 1/4 57	1.5 0.7
1 1/4 32	1.660 42.2	5 3/4 146	2 1/2 64	2.5 1.1
1 1/2 40	1.900 48.3	6 1/4 159	2 3/4 70	3.5 1.6
2 50	2.375 60.3	7 178	2 3/4 70	4.5 2.0
2 1/2 65	2.875 73.0	7 3/4 197	3 76	10.0 4.5
3 80	3.500 88.9	8 1/2 216	3 1/4 83	11.0 5.0
3 1/2 90	4.000 101.6	10 254	3 1/2 89	14.0 6.4
4 100	4.500 114.3	10 1/2 267	3 3/4 95	18.3 8.3
5 125	5.563 141.3	12 1/2 318	4 102	30.0 13.6
6 150	6.625 168.3	14 356	4 1/2 114	46.6 21.1
8 200	8.625 219.1	18 457	6 152	82.8 37.6
10 250	10.750 273.1	20 1/2 521	6 1/2 165	127 57.4
12 300	12.750 323.9	23 584	7 178	165 74.8
14 350	14.000 355.6	26 1/2 673	7 1/2 191	215 97.5
16 400	16.000 406.4	29 737	8 203	345 157
18 450	18.000 457.2	32 813	8 1/2 216	425 193
20 500	20.000 508.0	35 889	9 229	517 235
24 600	24.000 609.6	40 1016	10 254	940 426

FIG. 7070

45° Reducing Lateral

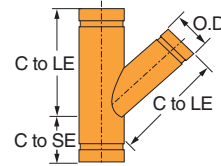


FIGURE 7070 REDUCING LATERAL

Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.	Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg	In./DN(mm)	In./mm	In./mm	Lbs./Kg
3 x 3 x 2 80 x 80 x 50	8 1/2 216	3 1/4 83	9.8 4.4	12 x 12 x 10 300 x 300 x 250	23 584	7 178	168 76.2
3 x 3 x 2 1/2 80 x 80 x 65	8 1/2 216	3 1/4 83	11.5 5.2	14 x 14 x 4 350 x 350 x 100	26 1/2 673	7 1/2 191	173 78.5
4 x 4 x 2 100 x 100 x 50	10 1/2 267	3 3/4 95	15.5 7.0	14 x 14 x 6 350 x 350 x 150	26 1/2 673	7 1/2 191	185 83.9
4 x 4 x 2 1/2 100 x 100 x 65	10 1/2 267	3 3/4 95	17.0 7.7	14 x 14 x 8 350 x 350 x 200	26 1/2 673	7 1/2 191	195 88.5
4 x 4 x 3 100 x 100 x 80	10 1/2 267	3 3/4 95	18.5 8.4	14 x 14 x 10 350 x 350 x 250	26 1/2 673	7 1/2 191	223 101
5 x 5 x 2 125 x 125 x 50	12 1/2 318	4 102	22.5 10.2	14 x 14 x 12 350 x 350 x 300	26 1/2 673	7 1/2 191	240 109
5 x 5 x 3 125 x 125 x 80	12 1/2 318	4 102	26.5 12.0	16 x 16 x 6 400 x 400 x 150	29 737	8 203	235 107
5 x 5 x 4 125 x 125 x 100	12 1/2 318	4 102	30.5 13.8	16 x 16 x 8 400 x 400 x 200	29 737	8 203	250 113
6 x 6 x 2 150 x 150 x 50	14 356	4 1/2 114	33.0 15.0	16 x 16 x 10 400 x 400 x 250	29 737	8 203	263 119
6 x 6 x 3 150 x 150 x 80	14 356	4 1/2 114	37.0 16.8	16 x 16 x 12 400 x 400 x 300	29 737	8 203	283 128
6 x 6 x 4 150 x 150 x 100	14 356	4 1/2 114	40.0 18.1	16 x 16 x 14 400 x 400 x 350	29 737	8 203	307 139
6 x 6 x 5 150 x 150 x 125	14 356	4 1/2 114	45.0 20.4	18 x 18 x 6 450 x 450 x 150	32 813	8 1/2 216	275 125
8 x 8 x 4 200 x 200 x 100	18 457	6 152	59.6 27.0	18 x 18 x 8 450 x 450 x 200	32 813	8 1/2 216	306 139
8 x 8 x 5 200 x 200 x 125	18 457	6 152	68.0 30.8	18 x 18 x 10 450 x 450 x 250	32 813	8 1/2 216	321 146
8 x 8 x 6 200 x 200 x 150	18 457	6 152	75.0 34.0	18 x 18 x 12 450 x 450 x 300	32 813	8 1/2 216	333 151
10 x 10 x 4 250 x 250 x 100	20 1/2 521	6 1/2 165	83.0 37.6	18 x 18 x 14 450 x 450 x 350	32 813	8 1/2 216	358 162
10 x 10 x 5 250 x 250 x 125	20 1/2 521	6 1/2 165	100.0 45.4	18 x 18 x 16 450 x 450 x 400	32 813	8 1/2 216	382 173
10 x 10 x 6 250 x 250 x 150	20 1/2 521	6 1/2 165	105.0 47.6	20 x 20 x 12 500 x 500 x 300	35 889	9 229	390 177
10 x 10 x 8 250 x 250 x 200	20 1/2 521	6 1/2 165	116.0 52.6	20 x 20 x 14 500 x 500 x 350	35 889	9 229	410 186
12 x 12 x 4 300 x 300 x 100	23 584	7 178	137.0 62.1	20 x 20 x 16 500 x 500 x 400	35 889	9 229	440 200
12 x 12 x 5 300 x 300 x 125	23 584	7 178	138.0 62.6	24 x 24 x 16 600 x 600 x 400	40 1016	10 254	725 329
12 x 12 x 6 300 x 300 x 150	23 584	7 178	140.0 63.5	24 x 24 x 20 600 x 600 x 500	40 1016	10 254	785 356
12 x 12 x 8 300 x 300 x 200	23 584	7 178	147.0 66.7				

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



PROJECT INFORMATION

APPROVAL STAMP

Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ 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.

Not for use in copper systems.



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
1 1/4	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 1/2	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 1/2	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 1/4 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 1/4 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 1/2 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 1/4 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 1/2 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	17.7	64.2	22.9
350	355.6	9.5	6.8	5.4	19.6	7.0
16	16.000	0.375	25.5	20.4	73.9	26.4
400	406.4	9.5	7.8	6.2	22.5	8.0
18	18.000	0.375	28.9	23.1	87.2	31.1
450	457.2	9.5	8.8	7.0	26.6	9.5
20	20.000	0.375	32.2	25.7	97.3	34.8
500	508.0	9.5	9.8	7.8	29.7	10.6
24	24.000	0.375	38.9	31.1	113.0	40.4
600	609.6	9.5	11.9	9.5	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
1 1/4	1.660	6 1/4 O.D.	6.259
32	42.4	159.0	159.0
1 1/2	1.900	6 1/2 O.D.	6.500
40	48.3	165.1	165.1
2	2.375	6	6.625
50	60.3	150	168.3
2 1/2	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
3 1/2	4.000	14	14.000
90	101.6	350	355.6
4 1/4 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
5 1/4 O.D.	5.236	20	20.000
133.0	133.0	500	508.0
5 1/2 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.