

**FIG. 7069**

45° Lateral

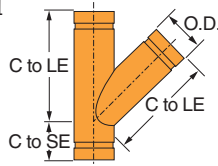


FIGURE 7069 LATERAL				
Nominal Size	O.D.	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./Kg
1	1.315	5	2¼	1.5
25	33.4	127	57	0.7
1¼	1.660	5¾	2½	2.5
32	42.2	146	64	1.1
1½	1.900	6¼	2¾	3.5
40	48.3	159	70	1.6
2	2.375	7	2¾	4.5
50	60.3	178	70	2.0
2½	2.875	7¾	3	10.0
65	73.0	197	76	4.5
3	3.500	8½	3¼	11.0
80	88.9	216	83	5.0
3½	4.000	10	3½	14.0
90	101.6	254	89	6.4
4	4.500	10½	3¾	18.3
100	114.3	267	95	8.3
5	5.563	12½	4	30.0
125	141.3	318	102	13.6
6	6.625	14	4½	46.6
150	168.3	356	114	21.1
8	8.625	18	6	82.8
200	219.1	457	152	37.6
10	10.750	20½	6½	127
250	273.1	521	165	57.4
12	12.750	23	7	165
300	323.9	584	178	74.8
14	14.000	26½	7½	215
350	355.6	673	191	97.5
16	16.000	29	8	345
400	406.4	737	203	157
18	18.000	32	8½	425
450	457.2	813	216	193
20	20.000	35	9	517
500	508.0	889	229	235
24	24.000	40	10	940
600	609.6	1016	254	426

**FIG. 7070**

45° Reducing Lateral

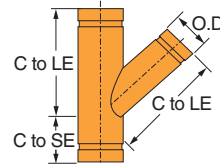


FIGURE 7070 REDUCING LATERAL							
Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.	Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./Kg	In./DN(mm)	In./mm	In./mm	Lbs./Kg
3 x 3 x 2	8½	3¼	9.8	12 x 12 x 10	23	7	168
80 x 80 x 50	216	83	4.4	300 x 300 x 250	584	178	76.2
3 x 3 x 2½	8½	3¼	11.5	14 x 14 x 4	26½	7½	173
80 x 80 x 65	216	83	5.2	350 x 350 x 100	673	191	78.5
4 x 4 x 2	10½	3¾	15.5	14 x 14 x 6	26½	7½	185
100 x 100 x 50	267	95	7.0	350 x 350 x 150	673	191	83.9
4 x 4 x 2½	10½	3¾	17.0	14 x 14 x 8	26½	7½	195
100 x 100 x 65	267	95	7.7	350 x 350 x 200	673	191	88.5
4 x 4 x 3	10½	3¾	18.5	14 x 14 x 10	26½	7½	223
100 x 100 x 80	267	95	8.4	350 x 350 x 250	673	191	101
5 x 5 x 2	12½	4	22.5	14 x 14 x 12	26½	7½	240
125 x 125 x 50	318	102	10.2	350 x 350 x 300	673	191	109
5 x 5 x 3	12½	4	26.5	16 x 16 x 6	29	8	235
125 x 125 x 80	318	102	12.0	400 x 400 x 150	737	203	107
5 x 5 x 4	12½	4	30.5	16 x 16 x 8	29	8	250
125 x 125 x 100	318	102	13.8	400 x 400 x 200	737	203	113
6 x 6 x 2	14	4½	33.0	16 x 16 x 10	29	8	263
150 x 150 x 50	356	114	15.0	400 x 400 x 250	737	203	119
6 x 6 x 3	14	4½	37.0	16 x 16 x 12	29	8	283
150 x 150 x 80	356	114	16.8	400 x 400 x 300	737	203	128
6 x 6 x 4	14	4½	40.0	16 x 16 x 14	29	8	307
150 x 150 x 100	356	114	18.1	400 x 400 x 350	737	203	139
6 x 6 x 5	14	4½	45.0	18 x 18 x 6	32	8½	275
150 x 150 x 125	356	114	20.4	450 x 450 x 150	813	216	125
8 x 8 x 4	18	6	59.6	18 x 18 x 8	32	8½	306
200 x 200 x 100	457	152	27.0	450 x 450 x 200	813	216	139
8 x 8 x 5	18	6	68.0	18 x 18 x 10	32	8½	321
200 x 200 x 125	457	152	30.8	450 x 450 x 250	813	216	146
8 x 8 x 6	18	6	75.0	18 x 18 x 12	32	8½	333
200 x 200 x 150	457	152	34.0	450 x 450 x 300	813	216	151
10 x 10 x 4	20½	6½	83.0	18 x 18 x 14	32	8½	358
250 x 250 x 100	521	165	37.6	450 x 450 x 350	813	216	162
10 x 10 x 5	20½	6½	100.0	18 x 18 x 16	32	8½	382
250 x 250 x 125	521	165	45.4	450 x 450 x 400	813	216	173
10 x 10 x 6	20½	6½	105.0	20 x 20 x 12	35	9	390
250 x 250 x 150	521	165	47.6	500 x 500 x 300	889	229	177
10 x 10 x 8	20½	6½	116.0	20 x 20 x 14	35	9	410
250 x 250 x 200	521	165	52.6	500 x 500 x 350	889	229	186
12 x 12 x 4	23	7	137.0	20 x 20 x 16	35	9	440
300 x 300 x 100	584	178	62.1	500 x 500 x 400	889	229	200
12 x 12 x 5	23	7	138.0	24 x 24 x 16	40	10	725
300 x 300 x 125	584	178	62.6	600 x 600 x 400	1016	254	329
12 x 12 x 6	23	7	140.0	24 x 24 x 20	40	10	785
300 x 300 x 150	584	178	63.5	600 x 600 x 500	1016	254	356
12 x 12 x 8	23	7	147.0				
300 x 300 x 200	584	178	66.7				

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

For Listings/Approval Details and Limitations, visit our website at [www.anvilint.com](http://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.



## 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	15.7	97.3	34.8
500	508.0	9.5	9.8	5.0	29.7	10.6
24	24.000	0.375	38.9	19.1	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.