

Fig. 7069 45° Lateral
Fig. 7070 45° Reducing Lateral



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.

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PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

Lateral & Reducing Lateral Fig. 7069, 7070

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
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	11.1	55.0	22.2
350	355.6	9.5	6.8	3.4	16.6	6.8
16	16.000	0.375	25.5	12.8	63.0	25.5
400	406.4	9.5	7.8	3.9	18.9	7.8
18	18.000	0.375	28.9	14.5	70.0	28.9
450	457.2	9.5	8.8	4.4	20.3	8.8
20	20.000	0.375	32.2	16.1	77.0	32.2
500	508.0	9.5	9.8	4.9	22.1	9.8
24	24.000	0.375	38.9	19.5	91.0	38.9
600	609.6	9.5	11.9	5.9	26.2	11.9

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.

Fitting Size

Nominal Size	O.D.
In./DN(mm)	In./mm
1	1.315
25	33.4
1¼	1.660
32	42.4
1½	1.900
40	48.3
2	2.375
50	60.3
2½	2.875
65	73.0
3 O.D.	2.996
76.1	76.1
3	3.500
80	88.9
3½	4.000
90	101.6
4¼ O.D.	4.250
108.0	108.0
4	4.500
100	114.3
5¼ O.D.	5.236
133.0	133.0
5½ O.D.	5.500
139.7	139.7
5	5.563
140	141.3
6¼ O.D.	6.259
159.0	159.0
6½ 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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Fig. 7069
45° Lateral

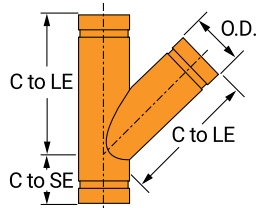
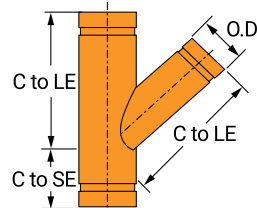


Fig. 7070
45° Reducing Lateral



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	127.0
250	273.1	521	165	57.4

Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./kg
3 x 3 x 2	8½	3¼	9.8
80 x 80 x 50	216	83	4.4
3 x 3 x 2½	8½	3¼	11.5
80 x 80 x 65	216	83	5.2
4 x 4 x 2	10½	3¾	15.5
100 x 100 x 50	267	95	7.0
4 x 4 x 2½	10½	3¾	17.0
100 x 100 x 65	267	95	7.7
4 x 4 x 3	10½	3¾	18.5
100 x 100 x 80	267	95	8.4
5 x 5 x 2	12½	4	22.5
125 x 125 x 50	318	102	10.2
5 x 5 x 3	12½	4	26.5
125 x 125 x 80	318	102	12.0
5 x 5 x 4	12½	4	30.5
125 x 125 x 100	318	102	13.8
6 x 6 x 2	14	4½	33.0
150 x 150 x 50	356	114	15.0
6 x 6 x 3	14	4½	37.0
150 x 150 x 80	356	114	16.8
6 x 6 x 4	14	4½	40.0
150 x 150 x 100	356	114	18.1
6 x 6 x 5	14	4½	45.0
150 x 150 x 125	356	114	20.4

Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./kg
12 x 12 x 10	23	7	168
300 x 300 x 250	584	178	76.2
14 x 14 x 4	26½	7½	173
350 x 350 x 100	673	191	78.5
14 x 14 x 6	26½	7½	185
350 x 350 x 150	673	191	83.9
14 x 14 x 8	26½	7½	195
350 x 350 x 200	673	191	88.5
14 x 14 x 10	26½	7½	223
350 x 350 x 250	673	191	101.0
14 x 14 x 12	26½	7½	240
350 x 350 x 300	673	191	109.0
16 x 16 x 6	29	8	235
400 x 400 x 150	737	203	107.0
16 x 16 x 8	29	8	250
400 x 400 x 200	737	203	113.0
16 x 16 x 10	29	8	263
400 x 400 x 250	737	203	119.0
16 x 16 x 12	29	8	283
400 x 400 x 300	737	203	128.0
16 x 16 x 14	29	8	307
400 x 400 x 350	737	203	139.0
18 x 18 x 6	32	8½	275
450 x 450 x 150	813	216	125.0

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



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Fig. 7069
45° Lateral

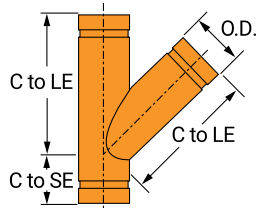
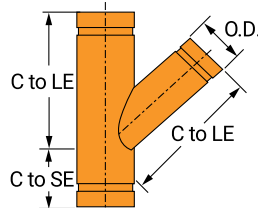


Fig. 7070
45° Reducing Lateral



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
12	12.750	23	7	165.0
300	323.9	584	178	74.8
14	14.000	26½	7½	215.0
350	355.6	673	191	97.5
16	16.000	29	8	345.0
400	406.4	737	203	157.0
18	18.000	32	8½	425.0
450	457.2	813	216	193.0
20	20.000	35	9	517.0
500	508.0	889	229	235
24	24.000	40	10	940.0
600	609.6	1016	254	426

Note:
See Fitting Size chart on page 2 for O.D.



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Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./kg
8 x 8 x 4	18	6	59.6
200 x 200 x 100	457	152	27.0
8 x 8 x 5	18	6	68.0
200 x 200 x 125	457	152	30.8
8 x 8 x 6	18	6	75.0
200 x 200 x 150	457	152	34.0
10 x 10 x 4	20½	6½	83.0
250 x 250 x 100	521	165	37.6
10 x 10 x 5	20½	6½	100.0
250 x 250 x 125	521	165	45.4
10 x 10 x 6	20½	6½	105.0
250 x 250 x 150	521	165	47.6
10 x 10 x 8	20½	6½	116.0
250 x 250 x 200	521	165	52.6
12 x 12 x 4	23	7	137.0
300 x 300 x 100	584	178	62.1
12 x 12 x 5	23	7	138.0
300 x 300 x 125	584	178	62.6
12 x 12 x 6	23	7	140.0
300 x 300 x 150	584	178	63.5
12 x 12 x 8	23	7	147.0
300 x 300 x 200	584	178	66.7

Nominal Size	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	Lbs./kg
18 x 18 x 8	32	8½	306
450 x 450 x 200	813	216	139.0
18 x 18 x 10	32	8½	321
450 x 450 x 250	813	216	146.0
18 x 18 x 12	32	8½	333
450 x 450 x 300	813	216	151.0
18 x 18 x 14	32	8½	358
450 x 450 x 350	813	216	162.0
18 x 18 x 16	32	8½	382
450 x 450 x 400	813	216	173.0
20 x 20 x 12	35	9	390
500 x 500 x 300	889	229	177.0
20 x 20 x 14	35	9	410
500 x 500 x 350	889	229	186.0
20 x 20 x 16	35	9	440
500 x 500 x 400	889	229	200.0
24 x 24 x 16	40	10	725
600 x 600 x 400	1016	254	329.0
24 x 24 x 20	40	10	785
600 x 600 x 500	1016	254	356.0



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