

**Fig. 7066** Tee Wye  
**Fig. 7067** Reducing Tee Wye  
**Fig. 7071** True Wye



## 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:	

## Tee Wye, Reducing Tee Wye & True Wye Fig. 7066, 7067, 7071

### 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	22.3	9.8
24	24.000	0.375	38.9	19.4	90.0	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

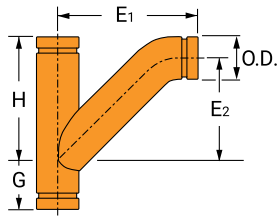
Nominal Size	O.D.
In./DN(mm)	In./mm
1	1.315
25	33.4
1¼	1.660
32	42.4
1½	1.900
40	48.3
2	2.375
50	60.3
2½	2.875
65	73.0
3 O.D.	2.996
76.1	76.1
3	3.500
80	88.9
3½	4.000
90	101.6
4¼ O.D.	4.250
108.0	108.0
4	4.500
100	114.3
5¼ O.D.	5.236
133.0	133.0
5½ O.D.	5.500
139.7	139.7
5	5.563
140	141.3
6¼ O.D.	6.259
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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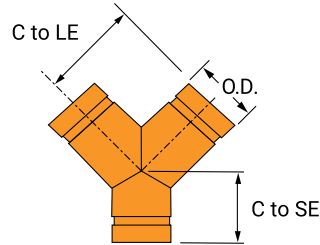
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**Fig. 7066**  
Tee Wye



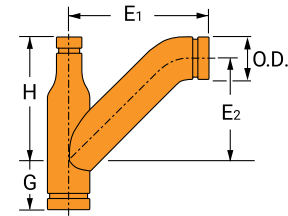
Nominal Size	G	H	E1	E2	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./kg
2 x 2 x 2 50 x 50 x 50	2¾ 70	7 178	9 229	4⅝ 117	6.4 2.9
2½ x 2½ x 2½ 65 x 65 x 65	3 76	7¾ 197	10½ 267	5¾ 146	11.5 5.2
3 x 3 x 3 80 x 80 x 80	3¼ 83	8½ 216	11½ 292	6½ 165	16.5 7.5
3½ x 3½ x 3½ 90 x 90 x 90	3½ 89	10 254	13 330	7¾ 197	22.0 10.0
4 x 4 x 3 100 x 100 x 80	3¾ 95	10½ 267	12⅞ 327	7⅞ 200	23.0 10.4
4 x 4 x 4 100 x 100 x 100	3¾ 95	10½ 267	13⅞ 346	8⅞ 206	26.0 11.8
5 x 5 x 3 125 x 125 x 80	4 102	12½ 318	14¼ 362	9¼ 235	32.0 14.5
5 x 5 x 4 125 x 125 x 100	4 102	12½ 318	15⅞ 384	9⅝ 244	35.0 15.9
5 x 5 x 5 125 x 125 x 125	4 102	12½ 318	16⅞ 410	10 254	40.0 18.1
6 x 6 x 3 150 x 150 x 80	4½ 114	14 356	15⅝ 389	10⅝ 262	50.0 22.7
6 x 6 x 4 150 x 150 x 100	4½ 114	14 356	16¼ 413	10¾ 273	55.0 24.9
6 x 6 x 5 150 x 150 x 125	4½ 114	14 356	17¼ 438	11⅞ 283	58.0 26.3
6 x 6 x 6 150 x 150 x 150	4½ 114	14 356	18¼ 464	11½ 292	60.5 27.4

**Fig. 7071**  
True Wye



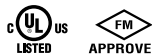
Nominal Size	O.D.	Center to Long End	Center to Short End	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	Lbs./kg
1 25	1.315 33.4	2¼ 57	2¼ 57	1.1 0.5
1¼ 32	1.660 42.2	2¾ 70	2½ 64	1.5 0.7
1½ 40	1.900 48.3	2¾ 70	2¾ 70	1.8 0.8
2 50	2.375 60.3	3¼ 83	2¾ 70	2.3 1.0
2½ 65	2.875 73	3¾ 95	3 76	5.0 2.3
3 80	3.500 88.9	4¼ 108	3¼ 83	6.1 2.8
3½ 90	4.000 101.6	4½ 114	3½ 89	8.3 3.8
4 100	4.500 114.3	5 127	3¾ 95	10.5 4.8
5 125	5.563 141.3	5½ 140	4 102	15.0 6.8
6 150	6.625 168.3	6½ 165	4½ 114	21.6 9.8
8 200	8.625 219.1	7¾ 197	6 152	36.0 16.3
10 250	10.750 273.1	9 229	6½ 165	51.0 23.1
12 300	12.750 323.9	10 254	7 178	160.0 72.6

**Fig. 7067**  
Reducing Tee Wye



Nominal Size	G	H	E1	E2	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./kg
4 x 3 x 3 100 x 80 x 80	1⅝ 41	7⅞ 187	10¾ 273	5⅝ 143	16.0 7.3
4 x 3 x 4 100 x 80 x 100	3¾ 95	10½ 267	13⅞ 346	8⅞ 206	27.0 12.2
5 x 3 x 3 125 x 80 x 80	1¼ 32	9¾ 248	11½ 292	6½ 165	25.0 11.3
5 x 3 x 5 125 x 80 x 125	4 102	12½ 318	16⅞ 410	10 254	44.0 20.0
5 x 4 x 3 125 x 100 x 80	1⅞ 48	9⅞ 232	11⅞ 302	6⅞ 175	21.0 9.5
5 x 4 x 4 125 x 100 x 100	1⅞ 48	9⅞ 232	12¾ 324	7¼ 184	25.0 11.3
6 x 4 x 6 150 x 100 x 150	4½ 114	14 356	18¼ 464	11½ 292	61.0 27.7
6 x 5 x 3 150 x 125 x 80	1¼ 32	10¾ 273	13 330	8 203	27.0 12.2
6 x 5 x 4 150 x 125 x 100	1¼ 32	10¾ 273	13⅞ 352	8⅞ 213	31.0 14.1
8 x 6 x 4 200 x 150 x 100	1 25	12 305	14¾ 375	9¼ 235	45.0 20.4
8 x 6 x 8 200 x 150 x 200	6 152	18 457	23¼ 591	15¼ 387	95.0 43.1

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



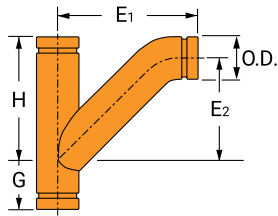
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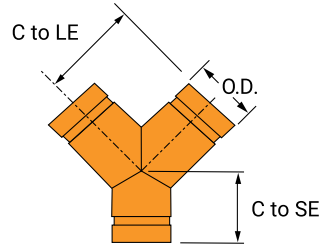
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**Fig. 7066**  
Tee Wye



Nominal Size	G	H	E1	E2	Approx. Wt. Ea.
In./DN(mm)	In./mm	In./mm	In./mm	In./mm	Lbs./kg
8 x 8 x 3 200 x 200 x 80	6 152	18 457	18 <sup>3</sup> / <sub>16</sub> 462	13 <sup>3</sup> / <sub>16</sub> 335	100.0 45.4
8 x 8 x 4 200 x 200 x 100	6 152	18 457	19 483	13 <sup>1</sup> / <sub>2</sub> 343	110.0 49.9
8 x 8 x 5 200 x 200 x 125	6 152	18 457	20 508	13 <sup>7</sup> / <sub>8</sub> 352	111.0 50.3
8 x 8 x 6 200 x 200 x 150	6 152	18 457	21 <sup>1</sup> / <sub>8</sub> 537	14 <sup>3</sup> / <sub>8</sub> 365	112.0 50.8
8 x 8 x 8 200 x 200 x 200	6 152	18 457	23 <sup>1</sup> / <sub>4</sub> 591	15 <sup>1</sup> / <sub>4</sub> 387	120 54.4
10 x 10 x 3 250 x 250 x 80	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	19 <sup>7</sup> / <sub>8</sub> 505	14 <sup>7</sup> / <sub>8</sub> 378	130.0 59.0
10 x 10 x 4 250 x 250 x 100	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	20 <sup>3</sup> / <sub>4</sub> 527	15 <sup>1</sup> / <sub>4</sub> 387	135.0 61.2
10 x 10 x 5 250 x 250 x 125	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	21 <sup>7</sup> / <sub>8</sub> 556	15 <sup>3</sup> / <sub>4</sub> 400	140.0 63.5
10 x 10 x 6 250 x 250 x 150	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	21 <sup>7</sup> / <sub>8</sub> 581	16 <sup>1</sup> / <sub>8</sub> 410	145.0 65.8
10 x 10 x 8 250 x 250 x 200	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	27 <sup>1</sup> / <sub>4</sub> 692	19 <sup>1</sup> / <sub>4</sub> 489	150.0 68.0
10 x 10 x 10 250 x 250 x 250	6 <sup>1</sup> / <sub>2</sub> 165	20 <sup>1</sup> / <sub>2</sub> 521	27 <sup>1</sup> / <sub>4</sub> 692	18 457	190.0 86.2
12 x 12 x 12 300 x 300 x 300	7 178	23 584	31 787	20 <sup>1</sup> / <sub>2</sub> 521	240.0 109.0

**Fig. 7071**  
True Wye



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
14 350	14.000 355.6	11 279	7 <sup>1</sup> / <sub>2</sub> 191	136.0 61.7
16 400	16.000 406.4	12 305	8 203	166.0 75.3
18 450	18.000 457.2	15 <sup>1</sup> / <sub>2</sub> 394	8 <sup>1</sup> / <sub>2</sub> 216	234.0 106.0
20 500	20.000 508.0	17 <sup>1</sup> / <sub>4</sub> 438	9 229	281.0 128.0
24 600	24.000 609.6	20 508	10 254	523.0 237.0

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



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