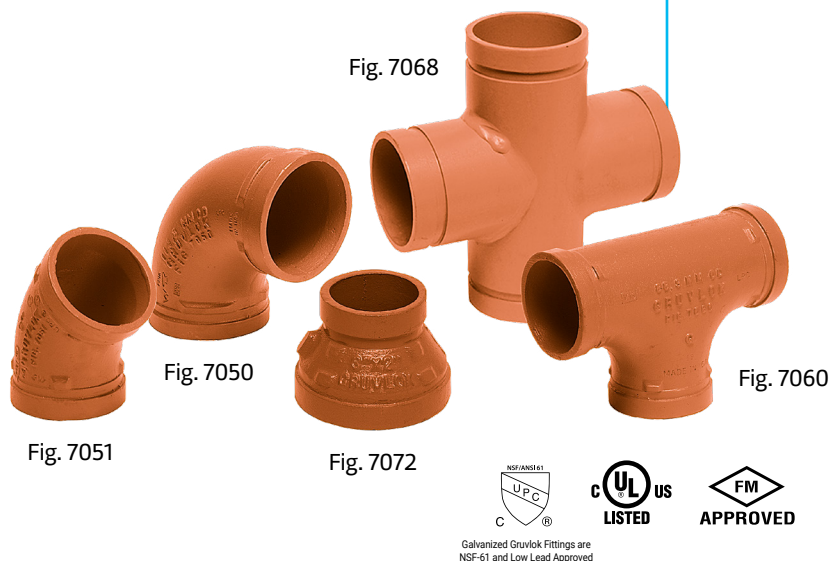


- Fig. 7050DR** 90° Drain Elbow
- Fig. 7062** Bullhead Tee (GR x GR x FPT)
- Fig. 7065** Standpipe Tee (GR x GR x FPT)



## 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:	

## Drain Elbow, Bullhead Tee & Standard Tee Fig. 7050DR, 7062, 7065

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	55.6	22.2
350	355.6	9.5	6.8	3.4	19.6	6.8
16	16.000	0.375	25.5	12.8	63.9	25.5
400	406.4	9.5	7.8	3.9	22.5	7.8
18	18.000	0.375	28.9	14.5	71.3	28.9
450	457.2	9.5	8.8	4.4	26.6	8.8
20	20.000	0.375	32.2	16.1	79.7	32.2
500	508.0	9.5	9.8	4.9	29.7	9.8
24	24.000	0.375	38.9	19.5	95.7	38.9
600	609.6	9.5	11.9	5.9	34.4	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

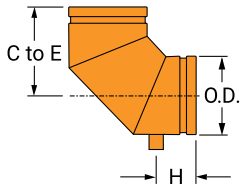
Nominal Size	O.D.
In./DN(mm)	In./mm
1	1.315
25	33.4
1¼	1.660
32	42.4
1½	1.900
40	48.3
2	2.375
50	60.3
2½	2.875
65	73.0
3 O.D.	2.996
76.1	76.1
3	3.500
80	88.9
3½	4.000
90	101.6
4¼ O.D.	4.250
108.0	108.0
4	4.500
100	114.3
5¼ O.D.	5.236
133.0	133.0
5½ O.D.	5.500
139.7	139.7
5	5.563
140	141.3
6¼ O.D.	6.259
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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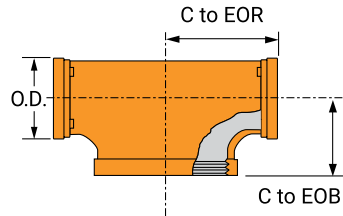
**Fig. 7050DR**  
90° Drain Elbow



Nominal Size	O.D.	Max Working Pressure	Dimensions		Approx. Wt. Ea.
			C to E	H	
In./DN(mm)	In./mm	PSI/bar	In./mm	In./mm	Lbs./kg
1¼	1.660	300	2¾	1¾	0.7
32	42.2	20.7	69	44	0.3
1½	1.900	300	2¾	1¾	1.7
40	48.3	20.7	69	44	0.8
2	2.375	300	3¼	1¾	2.0
50	60.3	20.7	83	44	0.9
2½	2.875	300	3¾	1⅞	2.5
65	73.0	20.7	95	48	1.1
3	3.500	300	4¼	2	3.2
80	88.9	20.7	108	51	1.5
4	4.500	300	5	2¼	4.6
100	114.3	20.7	127	57	2.1
5	5.583	300	5½	2⅝	11.5
125	141.3	20.7	140	60	5.2
6	6.625	300	6½	2⅞	9.6
150	168.3	20.7	165	60	4.4
8	8.625	300	7¾	2½	15.8
200	219.1	20.7	197	64	7.2
10	10.750	300	9	2¾	48.5
250	273.1	20.7	229	69	22.0
12	12.750	300	10	2¾	66.0
300	323.9	20.7	254	69	29.0

**Note:**  
Available fabricated Schedule 10/40.  
Drain elbow has a standard 1" female NPT outlet.

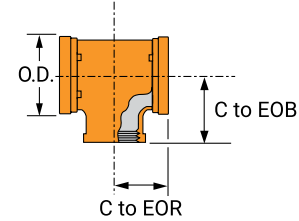
**Fig. 7062**  
Bullhead Tee (GR x GR x FPT)



Nominal Size	Center to End of Run	Center to End of Branch	Approx. Wt. Ea.
5 x 5 x 8	7¾	5½	31.0
125 x 125 x 200	197	140	14.1
6 x 6 x 8	7¾	6½	37.6
150 x 150 x 200	197	165	17.1

**Note:**  
See Fitting Size chart on next page for O.D.  
These fittings are designed to provide minimal pressure drop and uniform strength.  
Pressure ratings of Gruvlok Fittings conforms to those of Fig. 7001 Gruvlok Standard Coupling.

**Fig. 7065**  
Standpipe Tee (GR x GR x FPT)



Nominal Size	O.D.	Center to End of Run	Center to End of Branch	Approx. Wt. Ea.
4 x 4 x 2½	4.500	3¼	4	7.6
100 x 100 x 65	114.3	83	102	3.4
6 x 6 x 2½	6.625	3¼	5⅞	11.2
150 x 150 x 65	168.3	83	130	5.1


  
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