

Section 2

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Shurjoint Grooved Fittings

Shurjoint offers a wide range of grooved-end fittings in sizes through 24" (600 mm). Fittings are available in a number of styles and configurations to support a variety of applications. **Shurjoint** grooved-end fittings are manufactured and designed to meet ASTM F1548 and ANSI/AWWA C606 requirements for use with grooved mechanical couplings conforming to ASTM F1476. For sizes not specified in these standards, please refer to applicable groove specifications shown in this catalog.

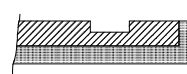


Most fittings are provided in ductile iron conforming to ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15. Some styles and sizes larger than 14" (350 mm) are fabricated from carbon steel pipe to ASTM A53 Gr. B or fabricated of segmentally welded steel of the same or equivalent grade. Fittings are painted orange or red, or as an option can be supplied hot-dip galvanized or epoxy coated.

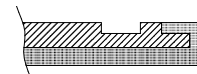


Rubber Lined Fittings

Shurjoint ductile iron grooved end fittings are also available with rubber lining for abrasive services. Contact **Shurjoint** for further information.



For abrasive services



For abrasive and corrosive services

Flow Data / Frictional Resistance

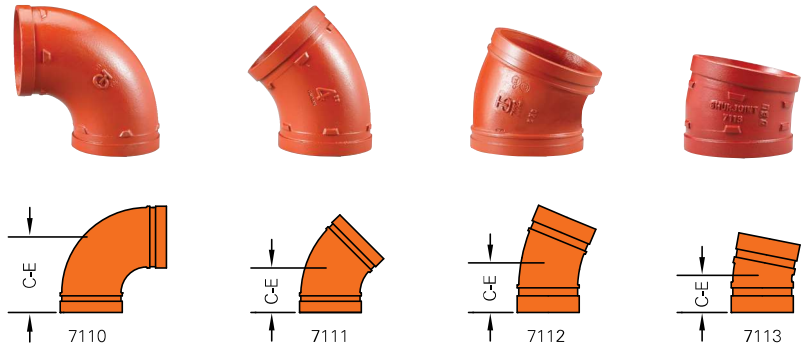
Expressed as equivalent length of straight pipe

Nominal Size	Pipe O.D.	Pipe Wall Thickness	Elbows					Tees	
			#7110 90°	#901 90°	#7110LR 90°	#7111 45°	#7111LR 45°	#7120	#903
			Std. Radius	Short Radius	1½ D. LR	Std. Radius	1½ D. LR	Branch	Branch
in	in	in	feet	feet	feet	feet	feet	feet	feet
mm	mm	mm	meters	meters	meters	meters	meters	meters	meters
1	1.315	0.133	1.7	—	—	0.8	—	4.2	—
25	33.4	3.4	0.5	—	—	0.2	—	1.3	—
1¼	1.660	0.140	2.5	2.5	—	1.0	—	4.7	4.7
32	42.2	3.6	0.8	0.8	—	0.3	—	1.4	1.4
1½	1.900	0.154	3.5	3.5	—	1.5	—	6.5	6.5
40	48.3	4.0	1.1	1.1	—	0.5	—	2.0	2.0
2	2.375	0.203	4.0	4.0	2.5	1.7	1.1	8.5	8.5
50	60.3	5.2	1.2	1.2	0.8	0.5	0.3	2.6	2.6
2½	2.875	0.197	4.5	4.5	2.9	2.0	1.4	10.0	10.0
65	73.0	5.0	1.4	1.4	0.9	0.6	0.4	3.1	3.1
3	3.500	0.237	5.0	5.0	3.8	2.5	1.5	12.0	12.0
80	88.9	6.3	1.5	1.5	1.2	0.8	0.5	3.7	3.7
4	4.500	0.220	6.7	6.7	5.0	3.0	2.1	15.0	15.0
100	114.3	5.6	2.0	2.0	1.5	0.9	0.6	4.6	4.6
5	5.563	0.258	7.5	7.5	6.0	4.0	2.5	19.0	19.0
125	141.3	6.6	2.3	2.3	1.8	1.2	0.6	5.8	5.8
6	6.625	0.280	9.0	9.0	7.5	4.5	3.0	22.0	22.0
150	168.3	7.1	2.7	2.7	2.3	1.4	0.9	6.7	6.7
8	8.625	0.322	13.0	13.0	9.8	6.5	4.0	33.0	33.0
200	219.1	8.2	4.0	4.0	3.0	2.0	1.2	10.1	10.1
10	10.750	0.365	17.0	—	12.0	8.3	5.0	41.0	—
250	273.0	8.8	5.2	—	3.7	2.5	1.5	12.5	—
12	12.750	0.375	20.0	—	14.5	10.0	6.0	49.0	—
300	323.9	9.5	6.1	—	4.4	3.1	1.8	14.9	—
14	14.000	0.375	24.5	22.3	—	13.8	—	69.9	69.9
350	355.6	9.5	7.5	6.8	—	4.8	—	21.3	21.3
16	16.000	0.375	28.0	25.3	—	15.8	—	80.0	80.0
400	406.4	9.5	8.5	7.7	—	4.8	—	24.4	24.4
18	18.000	0.375	31.0	28.2	—	18.7	—	89.9	89.9
450	457.2	9.5	9.5	8.6	—	5.7	—	27.4	27.4
20	20.000	0.375	34.0	30.8	—	20.9	—	100.0	100.0
500	508.0	9.5	10.4	9.4	—	6.3	—	30.5	30.5
24	24.000	0.375	42.0	37.7	—	24.2	—	120.0	120.0
600	609.6	9.5	12.8	11.5	—	7.4	—	36.6	36.6

The values listed in this table express the frictional resistance of representative Shurjoint fittings as equivalent feet (meters) of straight pipe. For the branch of a tee that is reduced in size, use the value that corresponds to the branch size. For example, the branch value of a 4" x 4" x 3" tee is 12.0 feet (3.7 meters). For fittings not listed in this table, the equivalent length of straight pipe can be estimated from the data provided. For example, the flow resistance of a 22½° elbow is approximately one half that of a 45° elbow.

Model
7110 90° Elbow
7112 22½° Elbow
7111 45° Elbow
7113 11¼° Elbow

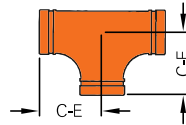
Shurjoint ductile iron grooved-end fittings are made of ductile iron per ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15. C-E dimensions are manufacturer's standard. See page 72 for wrought steel grooved-end fittings.



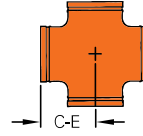
Nominal Size	Pipe O. D.	#7110 90° Elbow		#7111 45° Elbow		#7112 22½° Elbow		#7113 11¼° Elbow	
		C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
1	1.315	2.25	0.7	1.75	0.5	—	—	1.38	0.4
25	33.4	57	0.3	45	0.2	—	—	35	0.2
1¼	1.660	2.75	1.1	1.75	0.7	1.75	0.7	1.38	0.7
32	42.2	70	0.5	45	0.3	45	0.3	35	0.3
1½	1.900	2.75	1.3	1.75	0.9	1.75	1.1	1.38	0.7
40	48.3	70	0.6	45	0.4	45	0.5	35	0.3
2	2.375	3.25	2.0	2.00	1.5	1.88	1.6	1.38	1.0
50	60.3	83	0.9	51	0.7	48	0.7	35	0.4
2½	2.875	3.75	2.6	2.25	2.1	2.01	2.6	1.50	1.6
65	73.0	95	1.2	57	0.9	51	1.2	38	0.7
76.1 mm	3.000	3.75	3.1	2.25	2.1	2.01	2.5	1.50	1.7
	76.1	95	1.4	57	0.9	51	1.1	38	0.8
3	3.500	4.25	4.3	2.50	2.9	2.25	3.1	1.50	1.8
80	88.9	108	2.0	64	1.3	57	1.4	38	0.8
101.6 mm	4.000	4.50	5.5	—	—	—	—	—	—
	101.6	114	2.5	—	—	—	—	—	—
108.0 mm	4.250	5.00	5.5	3.00	4.4	—	—	—	—
	108.0	127	2.5	76	2.0	—	—	—	—
4	4.500	5.00	6.9	3.00	4.4	2.88	4.4	1.75	2.2
100	114.3	127	3.1	76	2.0	73	2.0	45	1.0
133.0 mm	5.250	5.50	9.0	3.25	5.9	—	—	—	—
	133.0	140	4.1	83	2.7	—	—	—	—
139.7 mm	5.500	5.50	9.5	3.25	6.4	—	—	2.00	4.5
	139.7	140	4.3	83	2.9	—	—	51	2.0
5	5.563	5.50	11.0	3.25	6.6	—	—	2.00	4.5
125	141.3	140	5.0	83	3.0	—	—	51	2.1
159.0 mm	6.250	6.50	13.2	3.50	8.4	—	—	—	—
	159.0	165	6.0	89	3.8	—	—	—	—
165.1 mm	6.500	6.50	12.5	3.50	8.9	3.12	10.7	2.00	5.5
	165.1	165	5.7	89	4.0	79	4.9	51	2.5
6	6.625	6.50	12.8	3.50	8.9	3.12	9.3	2.00	5.5
150	168.3	165	5.8	89	4.0	79	4.2	51	2.5
8	8.625	7.75	28.7	4.25	19.0	3.88	17.8	2.00	10.1
200	219.1	197	13.0	108	8.6	98	8.1	51	4.6
10	10.750	9.00	53.1	4.75	34.2	4.38	39.0	2.13	22.1
250	273.0	229	24.1	121	15.5	111	17.7	54	10.0
12	12.750	10.00	81.0	5.25	49.5	4.88	43.0	2.25	27.3
300	323.9	254	36.7	133	22.5	124	19.5	57	12.4
200 JIS	8.516	7.75	27.2	4.25	18.5	3.88	13.9	—	—
	216.3	197	12.4	108	8.4	98	6.3	—	—
250 JIS	10.528	9.00	52.8	4.75	34.2	—	—	—	—
	267.4	229	24.0	121	15.5	—	—	—	—
300 JIS	12.539	10.00	77.0	5.25	49.5	—	—	—	—
	318.5	254	35.0	133	22.5	—	—	—	—
14	14.000	11.00	77.5	6.00	48.4	—	—	—	—
350	355.6	280	35.2	152	22.0	—	—	—	—
16	16.000	12.00	94.6	7.25	96.8	—	—	—	—
400	406.4	305	43.0	184	44.0	—	—	—	—

Model
7120 Tee
7135 Cross
7130 45° Lateral

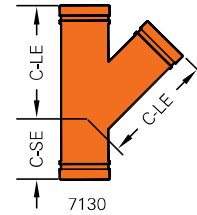
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7120



7135



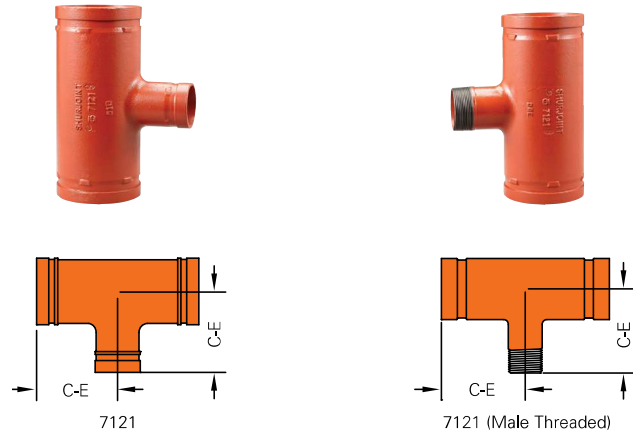
7130

Nominal Size	Pipe O.D.	#7120 Tee		#7135 Cross		#7130 45° Lateral		
		C - E	Weight	C - E	Weight	C - LE	C - SE	Weight
in	in	in	Lbs	in	Lbs	in	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	mm	Kgs
1	1.315	2.25	0.9	2.25	—	—	—	—
25	33.4	57	0.4	57	—	—	—	—
1¼	1.660	2.75	1.5	2.75	—	—	—	—
32	42.2	70	0.7	70	—	—	—	—
1½	1.900	2.75	2.0	2.75	—	—	—	—
40	48.3	70	0.9	70	—	—	—	—
2	2.375	3.25	2.9	3.25	2.7	7.00	2.75	4.4
50	60.3	83	1.3	83	1.2	178	70	2.0
2½	2.875	3.75	4.8	3.75	6.6	7.75	3.00	6.2
65	73.0	95	2.2	95	3.0	197	76	2.8
76.1 mm	3.000	3.75	5.1	3.75	6.6	7.75	3.00	6.2
	76.1	95	2.3	95	3.0	197	76	2.8
3	3.500	4.25	6.8	4.25	6.8	8.50	3.25	9.2
80	88.9	108	3.1	108	3.1	216	83	4.2
4	4.500	5.00	9.9	5.00	11.5	10.50	3.75	17.6
100	114.3	127	4.5	127	5.2	267	95	8.0
108.0 mm	4.250	5.00	9.0	—	—	—	—	—
	108.0	127	4.1	—	—	—	—	—
133.0 mm	5.250	5.50	13.2	—	—	—	—	—
	133.0	140	6.0	—	—	—	—	—
139.7 mm	5.500	5.50	14.3	5.50	13.0	12.50	4.00	27.5
	139.7	140	6.5	140	5.9	318	102	12.5
5	5.563	5.50	14.3	5.50	13.0	12.50	4.00	27.5
125	141.3	140	6.5	140	5.9	318	102	12.5
6	6.250	6.50	18.9	—	—	—	—	—
150	159.0	165	8.6	—	—	—	—	—
165.1 mm	6.500	6.50	21.7	6.50	32.0	14.00	4.50	40.7
	165.1	165	9.9	165	14.5	356	114	18.5
6	6.625	6.50	22.0	6.50	32.0	14.00	4.50	40.7
150	168.3	165	10.0	165	14.5	356	114	18.5
8	8.625	7.75	44.0	7.75	44.1	18.00	6.00	70.4
200	219.1	197	20.0	197	20.0	457	152	32.0
10	10.750	9.00	68.2	—	—	20.50	6.50	138.9
250	273.0	229	31.0	—	—	521	165	63.0
12	12.750	10.00	96.7	—	—	23.00	7.00	201.7
300	323.9	254	43.9	—	—	584	178	91.5
200 JIS	8.516	7.75	44.0	—	—	—	—	—
	216.3	197	20.0	—	—	—	—	—
250 JIS	10.528	9.00	68.2	—	—	—	—	—
	267.4	229	31.0	—	—	—	—	—
300 JIS	12.539	10.00	96.7	—	—	—	—	—
	318.5	254	43.9	—	—	—	—	—
14	14.000	11.00	114.6	—	—	—	—	—
350	355.6	280	52.0	—	—	—	—	—

Model

7121 Reducing Tee

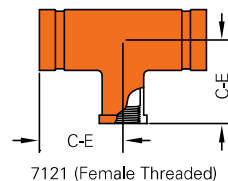
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Nominal Size	Pipe O.D.	Standard C - E	Threaded Br. C - E	Weight	Nominal Size	Pipe O. D.	Standard C - E	Threaded Br. C - E	Weight
in	in	in	in	Lbs	in	in	in	in	Lbs
mm	mm	mm	mm	Kgs	mm	mm	mm	mm	Kgs
2 x 2 x 1 1/4	2,375 x 2,375 x 1,660	3,25	—	2.6	5 x 5 x 2 1/2	5,563 x 5,563 x 2,875	5,50	5,50*	12,8
50 x 50 x 32	60,3 x 60,3 x 42,2	83	—	1.2	125 x 125 x 65	141,3 x 141,3 x 73,0	140	140	5,8
2 x 2 x 1 1/2	2,375 x 2,375 x 1,900	3,25	3,25*	2,6	5 x 5 x 3	5,563 x 5,563 x 3,500	5,50	5,50*	12,6
50 x 50 x 40	60,3 x 60,3 x 48,3	83	83	1,2	125 x 125 x 80	141,3 x 141,3 x 88,9	140	140	5,7
2 1/2 x 2 1/2 x 1	2,875 x 2,875 x 1,315	3,75	3,75	3,7	5 x 5 x 4	5,563 x 5,563 x 4,500	5,50	5,50*	13,6
65 x 65 x 25	73,0 x 73,0 x 33,4	95	95	1,7	125 x 125 x 100	141,3 x 141,3 x 114,3	140	140	6,2
2 1/2 x 2 1/2 x 1 1/4	2,875 x 2,875 x 1,660	3,75	3,75	3,7	165,1 mm x 165,1 mm	6,500 x 6,500 x 2,375	6,50	6,50*	17,6
65 x 65 x 32	73,0 x 73,0 x 42,2	95	95	1,7	x 50	165,1 x 165,1 x 60,3	165	165	8,0
2 1/2 x 2 1/2 x 1 1/2	2,875 x 2,875 x 1,900	3,75	3,75	4,0	165,1 mm x 165,1 mm	6,500 x 6,500 x 3,000	6,50	6,50*	18,7
65 x 65 x 40	73,0 x 73,0 x 48,3	95	95	1,8	x 76,1 mm	165,1 x 165,1 x 76,1	165	165	8,5
2 1/2 x 2 1/2 x 2	2,875 x 2,875 x 2,375	3,75	3,75	4,4	165,1 mm x 165,1 mm	6,500 x 6,500 x 3,500	6,50	6,50*	20,2
65 x 65 x 50	73,0 x 73,0 x 60,3	95	95	2,0	x 80	165,1 x 165,1 x 88,9	165	165	9,2
76,1 mm x 76,1 mm	3,000 x 3,000 x 1,315	3,75	3,75	3,7	165,1 mm x 165,1 mm	6,500 x 6,500 x 4,500	6,50	6,50*	19,4
x 25	76,1 x 76,1 x 33,4	95	95	1,7	x 100	165,1 x 165,1 x 114,3	165	165	8,8
76,1 mm x 76,1 mm	3,000 x 3,000 x 1,660	3,75	3,75	4,4	6 x 6 x 2	6,625 x 6,625 x 2,375	6,50	6,50	17,6
x 32	76,1 x 76,1 x 42,2	95	95	2,0	150 x 150 x 50	168,3 x 168,3 x 60,3	165	165	8,0
76,1 mm x 76,1 mm	3,000 x 3,000 x 1,900	3,75	3,75	4,2	6 x 6 x 2 1/2	6,625 x 6,625 x 2,875	6,50	6,50*	18,7
x 40	76,1 x 76,1 x 48,3	95	95	1,9	150 x 150 x 65	168,3 x 168,3 x 73,0	165	165	8,5
76,1 mm x 76,1 mm	3,000 x 3,000 x 2,375	3,75	3,75*	4,4	6 x 6 x 3	6,625 x 6,625 x 3,500	6,50	6,50	20,2
x 50	76,1 x 76,1 x 60,3	95	95	2,0	150 x 150 x 80	168,3 x 168,3 x 88,9	165	165	9,2
3 x 3 x 1	3,500 x 3,500 x 1,315	4,25	4,25*	5,5	6 x 6 x 4	6,625 x 6,625 x 4,500	6,50	6,50*	19,4
80 x 80 x 25	88,9 x 88,9 x 33,4	108	108	2,5	150 x 150 x 100	168,3 x 168,3 x 114,3	165	165	8,8
3 x 3 x 1 1/4	3,500 x 3,500 x 1,660	4,25	4,25*	5,2	8 x 8 x 2	8,625 x 8,625 x 2,375	7,75	7,75	32,5
80 x 80 x 32	88,9 x 88,9 x 42,2	108	108	2,4	200 x 200 x 50	219,1 x 219,1 x 60,3	197	197	14,8
3 x 3 x 1 1/2	3,500 x 3,500 x 1,900	4,25	4,25	5,2	8 x 8 x 2 1/2	8,625 x 8,625 x 2,875	7,75	—	31,9
80 x 80 x 40	88,9 x 88,9 x 48,3	108	108	2,4	200 x 200 x 65	219,1 x 219,1 x 73,0	197	—	14,5
3 x 3 x 2	3,500 x 3,500 x 2,375	4,25	4,25	6,2	8 x 8 x 3	8,625 x 8,625 x 3,500	7,75	7,75	34,2
80 x 80 x 50	88,9 x 88,9 x 60,3	108	108	2,8	200 x 200 x 80	219,1 x 219,1 x 88,9	197	197	15,5
3 x 3 x 2 1/2	3,500 x 3,500 x 2,875	4,25	4,25	6,2	8 x 8 x 4	8,625 x 8,625 x 4,500	7,75	7,75	44,0
80 x 80 x 65	88,9 x 88,9 x 73,0	108	108	2,8	200 x 200 x 100	219,1 x 219,1 x 114,3	197	197	20,0
80 x 80	3,500 x 3,500 x 3,000	4,25	4,25*	6,2	8 x 8 x 6	8,625 x 8,625 x 6,625	7,75	—	46,2
x 76,1 mm	88,9 x 88,9 x 76,1	108	108	2,8	200 x 200 x 150	219,1 x 219,1 x 168,3	197	—	21,0
4 x 4 x 1	4,500 x 4,500 x 1,315	5,00	5,00	8,9	10 x 10 x 4	10,750 x 10,750 x 4,500	9,00	9,00*	62,8
100 x 100 x 25	114,3 x 114,3 x 33,4	127	127	4,0	250 x 250 x 100	273,0 x 273,0 x 114,3	229	229	28,5
4 x 4 x 1 1/2	4,500 x 4,500 x 1,900	5,00	5,00	9,3	10 x 10 x 6	10,750 x 10,750 x 6,625	9,00	—	66,0
100 x 100 x 40	114,3 x 114,3 x 48,3	127	127	4,2	250 x 250 x 150	273,0 x 273,0 x 168,3	229	—	30,0
4 x 4 x 2	4,500 x 4,500 x 2,375	5,00	5,00	8,8	10 x 10 x 8	10,750 x 10,750 x 8,625	9,00	—	69,3
100 x 100 x 50	114,3 x 114,3 x 60,3	127	127	4,0	250 x 250 x 200	273,0 x 273,0 x 219,1	229	—	31,5
4 x 4 x 2 1/2	4,500 x 4,500 x 2,875	5,00	5,00	9,5	12 x 12 x 3	12,750 x 12,750 x 3,500	10,00	10,00*	88,1
100 x 100 x 65	114,3 x 114,3 x 73,0	127	127	4,3	300 x 300 x 80	323,9 x 323,9 x 88,9	254	254	40,0
100 x 100	4,500 x 4,500 x 3,000	5,00	5,00*	9,5	12 x 12 x 4	12,750 x 12,750 x 4,500	10,00	10,00*	90,4
x 76,1 mm	114,3 x 114,3 x 76,1	127	127	4,3	300 x 300 x 100	323,9 x 323,9 x 114,3	254	254	41,0
4 x 4 x 3	4,500 x 4,500 x 3,500	5,00	5,00	9,4	12 x 12 x 6	12,750 x 12,750 x 6,625	10,00	—	83,6
100 x 100 x 80	114,3 x 114,3 x 88,9	127	127	4,3	300 x 300 x 150	323,9 x 323,9 x 168,3	254	—	38,0
139,7 mm x 139,7 mm	5,500 x 5,500 x 2,375	5,50	5,50*	12,4	12 x 12 x 8	12,750 x 12,750 x 8,625	10,00	—	83,6
x 50	139,7 x 139,7 x 60,3	140	140	5,6	300 x 300 x 200	323,9 x 323,9 x 219,1	254	—	38,0
139,7 mm x 139,7 mm	5,500 x 5,500 x 2,875	5,50	5,50*	12,8	12 x 12 x 10	12,750 x 12,750 x 10,750	10,00	—	88,0
x 65	139,7 x 139,7 x 73,0	140	140	5,8	300 x 300 x 250	323,9 x 323,9 x 273,0	254	—	40,0
5 x 5 x 2	5,563 x 5,563 x 2,375	5,50	5,50*	12,4					
125 x 125 x 50	141,3 x 141,3 x 60,3	140	140	5,6					

*Non-standard/stock items may require longer lead time.

7121 Reducing Tee



Nominal Size	Pipe O.D.	Female Threaded Branch		Nominal Size	Pipe O.D.	Female Threaded Branch	
		C - E	Weight			C - E	Weight
in	in	in	Lbs	in	in	in	Lbs
mm	mm	mm	Kgs	mm	mm	mm	Kgs
2 x 2 x 1 1/4	2.375 x 2.375 x 1.660	3.25	2.9	3 x 3 x 1 1/4	3.500 x 3.500 x 1.660	4.25	5.1
50 x 50 x 32	60.3 x 60.3 x 42.2	83	1.3	80 x 80 x 32	88.9 x 88.9 x 42.2	108	2.3
2 x 2 x 1 1/2	2.375 x 2.375 x 1.900	3.25	4.0	3 x 3 x 1 1/2	3.500 x 3.500 x 1.900	4.25	6.0
50 x 50 x 40	60.3 x 60.3 x 48.3	83	1.8	80 x 80 x 40	88.9 x 88.9 x 48.3	108	2.7
2 1/2 x 2 1/2 x 1	2.875 x 2.875 x 1.315	3.75	4.0	3 x 3 x 2	3.500 x 3.500 x 2.375	4.25	6.2
65 x 65 x 25	73.0 x 73.0 x 33.4	95	1.8	80 x 80 x 50	88.9 x 88.9 x 60.3	108	2.8
2 1/2 x 2 1/2 x 1 1/4	2.875 x 2.875 x 1.660	3.75	3.7	3 x 3 x 2 1/2	3.500 x 3.500 x 2.875	4.25	7.3
65 x 65 x 32	73.0 x 73.0 x 42.2	95	1.7	80 x 80 x 65	88.9 x 88.9 x 73.0	108	3.3
2 1/2 x 2 1/2 x 1 1/2	2.875 x 2.875 x 1.900	3.75	4.4	4 x 4 x 1 1/2	4.500 x 4.500 x 1.900	5.00	9.3
65 x 65 x 40	73.0 x 73.0 x 48.3	95	2.0	100 x 100 x 40	114.3 x 114.3 x 48.3	127	4.2
2 1/2 x 2 1/2 x 2	2.875 x 2.875 x 2.375	3.75	4.6	4 x 4 x 2	4.500 x 4.500 x 2.375	5.00	9.3
65 x 65 x 50	73.0 x 73.0 x 60.3	95	2.1	100 x 100 x 50	114.3 x 114.3 x 60.3	127	4.2
76.1 mm x 76.1 mm x 25	3.000 x 3.000 x 1.315	3.75	4.4	4 x 4 x 2 1/2*	4.500 x 4.500 x 2.875	5.00	10.8
76.1 mm x 76.1 mm x 32	3.000 x 3.000 x 1.660	3.75	4.4	100 x 100 x 65	114.3 x 114.3 x 73.0	127	4.9
76.1 mm x 76.1 mm x 40	3.000 x 3.000 x 1.900	3.75	4.0	100 x 100 x 76.1 mm	4.500 x 4.500 x 3.000	5.00	9.9
76.1 mm x 76.1 mm x 50	3.000 x 3.000 x 2.375	3.75	4.9		114.3 x 114.3 x 76.1	127	4.5
	76.1 x 76.1 x 42.2	95	2.0	139.7 mm x 139.7 mm x 50	5.500 x 5.500 x 2.375	5.50	11.9
	76.1 x 76.1 x 48.3	95	1.8		139.7 x 139.7 x 60.3	140	5.4
	76.1 x 76.1 x 60.3	95	2.2	5 x 5 x 2	5.563 x 5.563 x 2.375	5.50	12.3
3 x 3 x 1/2	3.500 x 3.500 x 0.840	4.25	5.1	125 x 125 x 50	141.3 x 141.3 x 60.3	140	5.6
80 x 80 x 15	88.9 x 88.9 x 21.3	108	2.3	165.1 mm x 165.1 mm x 50	6.500 x 6.500 x 2.375	6.50	17.6
3 x 3 x 3/4	3.500 x 3.500 x 1.050	4.25	5.1		165.1 x 165.1 x 60.3	165	8.0
80 x 80 x 20	88.9 x 88.9 x 26.7	108	2.3	6 x 6 x 2	6.625 x 6.625 x 2.375	6.50	20.5
3 x 3 x 1	3.500 x 3.500 x 1.315	4.25	5.1	150 x 150 x 50	168.3 x 168.3 x 60.3	165	9.3
80 x 80 x 25	88.9 x 88.9 x 33.4	108	2.3	6 x 6 x 2 1/2	6.625 x 6.625 x 2.875	6.50	15.7
				150 x 150 x 65	168.3 x 168.3 x 73.0	165	7.1

*Non-standard/stock items may require longer lead time.

Model

7150 Concentric Reducer 7151 Eccentric Reducer

Shurjoint ductile iron grooved-end fittings are made of ductile iron per ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15. E-E dimensions are manufacturer's standard. See page 74 for wrought steel grooved-end fittings.



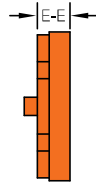
7150



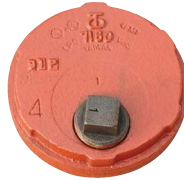
7151

Nominal Size	Pipe O.D.	#7150 Conc. Reducer		#7151 Ecc. Reducer		Nominal Size	Pipe O.D.	#7150 Conc. Reducer		#7151 Ecc. Reducer	
		E - E	Weight	E - E	Weight			E - E	Weight	E - E	Weight
in	in	in	Lbs	in	Lbs	in	in	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	mm	mm	Kgs	mm	Kgs
1 1/4 x 1	1.660 x 1.315	2.50	0.4	—	—	100	4.500 x 3.000	3.00	2.3	4.00	3.3
32 x 25	42.2 x 33.4	64	0.2	—	—	x 76.1 mm	114.3 x 76.1	76	1.0	102	1.5
1 1/2 x 1	1.900 x 1.315	2.50	0.5	—	—	4 x 3	4.500 x 3.500	3.00	2.2	4.00	2.9
40 x 25	48.3 x 33.4	64	0.2	—	—	100 x 80	114.3 x 88.9	76	1.0	102	1.3
1 1/2 x 1 1/4	1.900 x 1.660	2.50	0.6	—	—	5 x 4	5.563 x 4.500	3.50	3.6	4.00	6.2
40 x 32	48.3 x 42.2	64	0.3	—	—	125 x 100	141.3 x 114.3	89	1.6	102	2.8
2 x 1	2.375 x 1.315	2.50*	0.9	—	—	6 x 2	6.625 x 2.375	4.00	4.2	4.00	4.4
50 x 25	60.3 x 33.4	64	0.4	—	—	150 x 50	168.3 x 60.3	102	1.9	102	2.0
2 x 1 1/4	2.375 x 1.660	2.50	0.7	—	—	6 x 2 1/2	6.625 x 2.875	4.00	4.4	—	—
50 x 32	60.3 x 42.2	64	0.3	—	—	150 x 65	168.3 x 73.0	102	2.0	—	—
2 x 1 1/2	2.375 x 1.900	2.50	0.8	—	—	6 x 3	6.625 x 3.500	4.00	4.4	4.00	7.8
50 x 40	60.3 x 48.3	64	0.4	—	—	150 x 80	168.3 x 88.9	102	2.0	102	3.5
2 1/2 x 1 1/4	2.875 x 1.660	2.50	1.1	—	—	6 x 4	6.625 x 4.500	4.00	4.6	4.00	5.8
65 x 32	60.3 x 42.2	64	0.5	—	—	150 x 100	168.3 x 114.3	102	2.1	102	2.7
2 1/2 x 1 1/2	2.875 x 1.900	2.50	1.1	—	—	6 x 5	6.625 x 5.563	4.00	5.5	4.00	9.9
65 x 40	60.3 x 48.3	64	0.5	—	—	150 x 125	168.3 x 141.3	102	2.5	102	4.5
2 1/2 x 2	2.875 x 2.375	2.50	1.1	3.50	1.4	165.1 mm	6.500 x 2.375	4.00	4.2	4.00	4.4
65 x 50	73.0 x 60.3	64	0.5	89	0.7	x 50	165.1 x 60.3	102	1.9	102	2.0
76.1 mm	3.000 x 1.660	2.50	1.1	—	—	165.1 mm	6.500 x 3.000	4.00	4.2	—	—
x 32	76.1 x 42.2	64	0.5	—	—	x 76.1 mm	165.3 x 76.1	102	1.9	—	—
76.1 mm	3.000 x 1.900	2.50	1.1	—	—	165.1 mm	6.500 x 3.500	4.00	4.4	4.00	7.7
x 40	76.1 x 48.3	64	0.5	—	—	x 80	165.1 x 88.9	102	2.0	102	3.5
76.1 mm	3.000 x 2.375	2.50	1.1	3.50	1.6	165.1 mm	6.500 x 4.500	4.00	4.6	4.00	5.8
x 50	76.1 x 60.3	64	0.5	89	0.7	x 100	165.1 x 114.3	102	2.1	102	2.7
3 x 1	3.500 x 1.315	2.50	1.3	—	—	165.1 mm	6.500 x 5.500	4.00	5.5	4.00	9.9
80 x 25	88.9 x 33.4	64	0.6	—	—	x 139.7 mm	165.1 x 139.7	102	2.5	102	4.5
3 x 1 1/4	3.500 x 1.660	2.50	1.3	—	—	8 x 3	8.625 x 3.500	5.00	9.5	—	—
80 x 32	88.9 x 42.2	64	0.6	—	—	200 x 80	219.1 x 88.9	127	4.3	—	—
3 x 1 1/2	3.500 x 1.900	2.50	1.3	—	—	8 x 4	8.625 x 4.500	5.00	11.2	5.00	14.6
80 x 40	88.9 x 48.3	64	0.6	—	—	200 x 100	219.1 x 114.3	127	5.1	127	6.6
3 x 2	3.500 x 2.375	2.50	1.3	3.50	2.2	8 x 6	8.625 x 6.625	5.00	11.4	5.00	12.0
80 x 50	88.9 x 60.3	64	0.6	89	1.0	200 x 150	219.1 x 168.3	127	5.2	127	5.5
3 x 2 1/2	3.500 x 2.875	2.50	1.3	3.50	2.2	10 x 4	10.750 x 4.500	6.00	19.8	6.00	26.4
80 x 65	88.9 x 73.0	64	0.6	89	1.0	250 x 100	273.0 x 114.3	152	9.0	152	12.0
80	3.500 x 3.000	2.50	1.3	3.50	2.2	10 x 6	10.750 x 6.625	6.00	19.8	6.00	25.3
x 76.1 mm	88.9 x 76.1	64	0.6	89	1.0	250 x 150	273.0 x 168.3	152	9.0	152	11.5
4 x 1 1/4	4.500 x 1.660	3.00	2.0	—	—	10 x 8	10.750 x 8.625	6.00	20.9	7.00	26.8
100 x 32	114.3 x 42.2	76	0.9	—	—	250 x 200	273.0 x 219.1	152	9.5	178	12.2
4 x 1 1/2	4.500 x 1.900	3.00	2.2	—	—	12 x 6	12.750 x 6.625	7.00	30.9	7.00	39.7
100 x 40	114.3 x 48.3	76	1.0	—	—	300 x 150	323.9 x 168.3	178	14.0	178	18.0
4 x 2	4.500 x 2.375	3.00	2.0	4.00	2.8	12 x 8	12.750 x 8.625	7.00	30.9	7.00	40.8
100 x 50	114.3 x 60.3	76	0.9	102	1.3	300 x 200	323.9 x 219.1	178	14.0	178	18.5
4 x 2 1/2	4.500 x 2.875	3.00	2.2	4.00	3.3	12 x 10	12.750 x 10.750	7.00	30.1	7.00	44.1
100 x 65	114.3 x 73.0	76	1.0	102	1.5	300 x 250	323.9 x 273.0	178	13.7	178	20.0

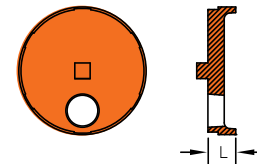
*Non-standard/stock items may require longer lead time.

Model
7160 End Cap


7160

Model
7160P End Cap with Plug

Model
7160T Transition Cap

The Shurjoint Model 7160T is an ideal transition fitting when a large reduction is required and can be used in place of more costly reducers or swaged nipples. In addition the 7160T can serve as a drain fitting.



7160T

Nominal Size	Pipe O.D.	#7160 End Cap	
		E - E	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
1	1.315	0.87	0.2
25	33.4	22	0.1
1¼	1.660	1.00	0.3
32	42.2	25	0.2
1½	1.900	1.00	0.4
40	48.3	25	0.2
2	2.375	1.00	0.7
50	60.3	25	0.3
2½	2.875	1.00	0.9
65	73.0	25	0.4
76.1 mm	3.000	1.00	0.9
	76.1	25	0.4
3	3.500	1.00	1.5
80	88.9	25	0.7
108.0 mm	4.250	1.00	2.4
	108.0	25	1.1
4	4.500	1.00	2.2
100	114.3	25	1.0
133.0 mm	5.250	1.00	3.7
	133.0	25	1.7
139.7 mm	5.500	1.00	3.7
	139.7	25	1.7
5	5.563	1.00	3.7
125	141.3	25	1.7
159.0 mm	6.250	1.00	5.1
	159.0	25	2.3
165.1 mm	6.500	1.00	6.0
	165.1	25	2.7
6	6.625	1.00	6.0
150	168.3	25	2.7
8	8.625	1.18	10.1
200	219.1	30	4.6
10	10.750	1.25	15.4
250	273.0	32	7.0
12	12.750	1.25	22.0
300	323.9	32	10.0

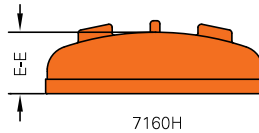
Nominal Size	Pipe O.D.	7160P Plug Size
		in
in	in	in
mm	mm	mm
1	1.315	—
25	33.4	—
1¼	1.660	—
32	42.2	—
1½	1.900	—
40	48.3	—
2	2.375	½
50	60.3	15
2½	2.875	½
65	73.0	15
76.1 mm	3.000	½
	76.1	15
3	3.500	½
80	88.9	15
108.0 mm	4.250	—
	108.0	—
4	4.500	1
100	114.3	25
133.0 mm	5.250	—
	133.0	—
139.7 mm	5.500	1
	139.7	25
5	5.563	1
125	141.3	25
159.0 mm	6.250	—
	159.0	—
165.1 mm	6.500	1
	165.1	25
6	6.625	1
150	168.3	25
8	8.625	1½
200	219.1	40
10	10.750	1½
250	273.0	40
12	12.750	1½
300	323.9	40
200 JIS	8.516	—
	216.3	—
250 JIS	10.528	—
	267.4	—
300 JIS	12.539	—
	318.5	—

Nominal Size	NPT / BSP	L	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
2 x	½	0.94	0.55
	15	23.8	0.25
	20	23.8	0.25
50 x	¾	0.94	0.55
	1	0.94	0.97
	25	23.8	0.44
	1¼	0.94	0.77
	32	23.8	0.35
2½ x	1½	0.94	0.70
	40	23.8	0.30
65 x	1	1.00	1.43
	25	25.4	0.65
	1¼	1.00	1.43
	32	25.4	0.65
	1½	1.00	1.30
	40	25.4	0.60
	2	1.00	1.33
3 x	50	25.4	0.60
	1	1.00	2.09
	25	25.4	0.95
	1¼	1.00	2.09
	32	25.4	0.95
	1½	1.00	2.09
	40	25.4	0.95
4 x	2	1.00	2.09
	50	25.4	0.95
	1	1.00	5.52
	25	25.4	2.50
	1¼	1.00	5.52
	32	25.4	2.50
	1½	1.00	5.52
6 x	40	25.4	2.50
	2	1.00	5.52
	50	25.4	2.50
	1	1.00	5.52
	25	25.4	2.50

Model

7160H Domed End Cap

The **Shurjoint** Model 7160H end caps are cast of ductile iron and are designed to withstand pressure evenly over the entire spherical surface. The Model 7160H End Cap is designed for use on 10" - 24" mechanical piping applications.

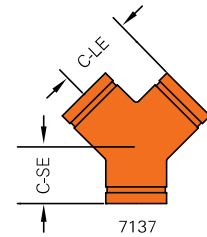
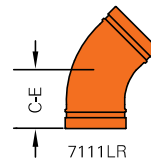
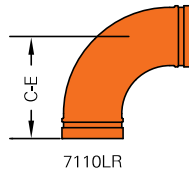


Nominal Size	Pipe O.D.	#7160H Domed End Cap	
		E - E	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
10	10.750	3.00	12.1
250	273.0	76.1	5.5
12	12.750	3.00	16.3
300	323.9	76.1	7.4
14	14.000	4.00	26.4
350	355.6	102.0	12.0
16	16.000	4.00	32.0
400	406.4	102.0	14.5
18	18.000	5.00	39.2
450	457.2	127.0	17.8
20	20.000	6.00	53.9
500	508.0	152.0	24.5
24	24.000	6.00	75.9
600	609.6	152.0	34.5

Model

7110LR 1.5D 90° Elbow 7111LR 1.5D 45° Elbow 7137 True-Y

Shurjoint ductile iron grooved-end fittings are made of ductile iron per ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15. C-E dimensions are manufacturer's standard. See page 72 for wrought steel grooved-end fittings.



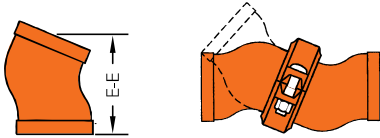
Nominal Size	Pipe O.D.	#7110LR 1.5D LR 90° Elbow		#7111LR 1.5D LR 45° Elbow		#7137 True-Y		
		C - E	Weight	C - E	Weight	C - LE	C - SE	Weight
in	in	in	Lbs	in	Lbs	in	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	mm	Kgs
2	2.375	4.38	2.4	2.75	1.8	3.25	2.75	2.5
50	60.3	111	1.1	70	0.8	83	70	1.1
2½	2.875	5.00	4.0	3.00	3.1	3.75	3.00	3.8
65	73.0	127	1.8	76	1.4	95	76	1.7
76.1 mm	3.000	5.00	4.0	3.00	3.2	3.75	3.00	4.0
	76.1	127	1.8	76	1.5	95	76	1.8
3	3.500	5.88	5.8	3.38	4.0	4.25	3.25	5.5
80	88.9	149	2.6	86	1.8	108	83	2.5
4	4.500	7.50	10.3	4.00	7.7	5.00	3.75	10.4
100	114.3	191	4.7	102	3.5	127	95	4.7
139.7 mm	5.500	9.50	18.1	5.00	10.1	5.50	4.00	15.0
	139.7	241	8.2	127	4.6	140	102	6.8
5	5.563	9.50	18.1	5.00	10.1	5.50	4.00	11.6
125	141.3	241	8.2	127	4.6	140	102	5.3
165.1 mm	6.500	10.75	25.3	5.50	18.0	6.50	4.50	19.6
	165.1	273	11.5	140	8.2	165	114	8.9
6	6.625	10.75	25.3	5.50	18.0	6.50	4.50	19.6
150	168.3	273	11.5	140	8.2	165	114	8.9
8	8.625	14.25	50.7	7.25	35.3	7.75	6.00	34.3
200	219.1	362	23.0	184	16.0	197	152	15.6
10	10.750	17.25	73.0	8.50	78.6	9.00*	6.50	56.2
250	273.0	438	42.2	216	36.1	229	165	25.5
12	12.750	20.50	157.6	10.00	73.9	10.00*	7.00	79.4
300	323.9	521	71.5	254	33.5	254	178	36.0

*Non-standard/stock items may require longer lead time.

Model

7112G Goose Neck 22½° Elbow

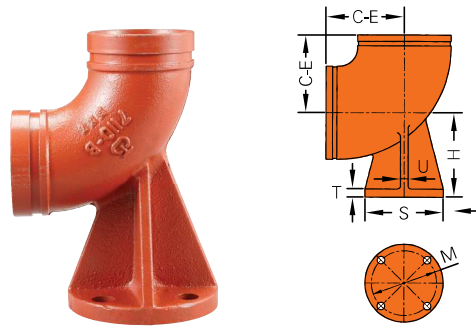
Two Shurjoint Model 7112G elbows in combination with a coupling will serve as a universal joint and is ideal for instances where a pipe line is in need of a slight adjustment during make-up.


Model

7110-B 90° Elbow with Base Support

The Shurjoint Model 7110-B is a ductile iron 90° grooved-end elbow with base support, designed for installation at the bottom of a

riser system. An anchor can be placed in conjunction with the base to support the weight of the pipe, coupling and fluid.



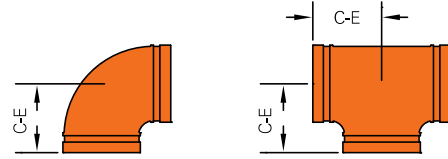
Nominal Size	Pipe O.D.	7112G 22½° Elbows	
		E - E	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
1½	1.900	3.75	1.3
40	48.3	95 G	0.6
2	2.375	3.75	1.3
50	60.3	95 G	0.8
2½	2.875	4.00	2.2
65	73.0	102 G	1.0
76.1 mm	3.000	4.00	2.2
	76.1	102 G	1.0
3	3.500	4.50	3.1
80	88.9	114 G	1.4
4	4.500	5.00	4.4
100	114.3	127 G	2.0
139.7 mm	5.500	5.00	6.5
	139.7	127 G	2.9
5	5.563	5.00	6.8
125	141.3	127 G	3.0
165.1 mm	6.500	6.25	11.0
	165.1	159 G	5.0
6	6.625	6.25	11.0
150	168.3	159 G	5.0
8	8.625	7.75	22.0
200	219.1	197 G	10.0
200 JIS	8.516	7.75	19.2
	216.3	197 G	8.8

Nominal Size	Pipe O.D.	Dimensions						Weight
		C - E	H	U	T	S	M	
in	in	in	in	in	in	in	in	Lbs
mm	mm	mm	mm	mm	mm	mm	mm	Kgs
3	3.500	4.25	4.88	0.50	0.56	5.00	3.88	10.5
80	88.9	108	124	13	14	127	99	4.8
4	4.500	5.00	5.50	0.50	0.62	6.00	4.75	15.2
100	114.3	127	140	13	16	152	121	6.9
6	6.625	6.50	7.00	0.62	0.69	7.00	5.50	26.3
150	168.3	165	178	16	18	178	140	11.9
8	8.625	7.76	8.38	0.88	0.94	9.00	7.50	56.9
200	219.1	197	213	22	24	229	191	25.8
10	10.750	9.02	9.75	0.88	0.94	9.00	7.50	88.9
250	273.0	229	248	22	24	229	191	40.3

Model

901 90° SR Elbow 903 SR Tee

Shurjoint short radius fittings, while primarily designed for fire protection applications, can also be used for general service requirements.

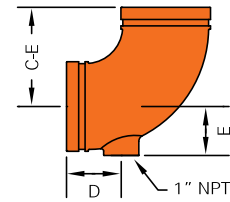


Nominal Pipe Size	Pipe O.D.	#901 SR 90° Elbow		#903 SR Straight Tee	
		C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs
2	2.375	2.75	1.5	2.75	2.2
50	60.3	70	0.7	70	1.0
2½	2.875	3.00	2.0	3.00	2.9
65	73.0	76	0.9	76	1.3
76.1 mm	3.000	3.00	2.5	3.00	2.9
	76.1	76	1.1	76	1.3
3	3.500	3.38	3.1	3.38	4.4
80	88.9	86	1.4	86	2.0
4	4.500	4.00	4.9	4.00	7.9
100	114.3	102	2.2	102	3.6
139.7 mm	5.500	4.88	7.9	4.88	11.1
	139.7	124	3.6	124	5.1
5	5.563	4.88	7.9	4.88	10.1
125	141.3	124	3.6	124	4.6
165.1 mm	6.500	5.50	12.9	5.50	16.5
	165.1	140	5.9	140	7.5
6	6.625	5.50	12.9	5.50	17.2
150	168.3	140	5.9	140	7.8
8	8.625	6.94	23.4	6.94	36.3
200	219.1	176	10.6	176	16.5

Model

7110DR Drain Elbow

The Shurjoint Model 7110DR is a grooved-end ductile iron cast elbow with an integral 1" NPT or BSP drain. The 7110DR is designed for use in fire protection and general service applications.



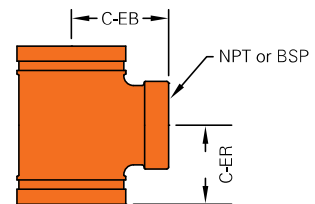
Nominal Pipe Size	Pipe O.D.	Dimensions			Weight
		C - E	D	E	
in	in	in	in	in	Lbs
mm	mm	mm	mm	mm	Kgs
2	2.375	3.27	2.25	1.57	2.2
50	60.3	83	57	40	1.0
2½	2.875	3.75	2.75	1.57	2.8
65	73.0	95	70	40	1.3
76.1mm*	3.000	3.75	2.75	1.57	2.8
	76.1	95	70	40	1.3
3	3.500	4.25	2.75	1.93	4.6
80	88.9	108	70	49	2.1
4	4.500	5.00	2.75	2.48	6.6
100	114.3	127	70	63	3.0
165.1mm*	6.500	6.50	2.75	3.54	13.4
	165.1	165	70	90	6.1
6	6.625	6.50	2.75	3.54	13.4
150	168.3	165	70	90	6.1
8	8.625	7.76	3.27	4.49	25.6
200	219.1	197	83	114	11.6

*Non-standard/stock items may require longer lead time.

Model

7127 Standpipe Tee

The Shurjoint Model 7127 is a grooved-end tee with a 2½" NPT/BSP threaded branch, specially designed for use on fire protection standpipes.

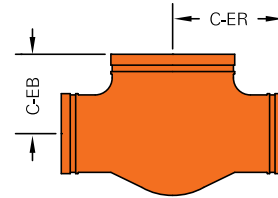


Nominal Size	Pipe O.D.	Dimensions		Weight
		C - ER	C - EB	
in	in	in	in	Lbs
mm	mm	mm	mm	Kgs
4 x 4 x 2½	4.500 x 4.500 x 2.875	3.25	4.00	5.84
100 x 100 x 65	114.3 x 114.3 x 73.0	83	102	2.65
6 x 6 x 2½	6.625 x 6.625 x 2.875	3.25	5.00	9.48
150 x 150 x 65	168.3 x 168.3 x 73.0	83	127	4.30

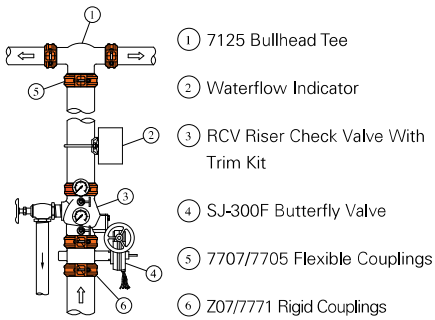
Model

7125 Bullhead Tee

The **Shurjoint Model 7125** is a grooved-end bullhead tee, specifically designed for use on fire protection systems. The 7125 allows you to directly split the flow into two reduced branch lines without the need for concentric reducers and multiple couplings.



Fire Protection Applications



Nominal Pipe Size	Pipe O.D.	Dimensions		Weight
		C - ER	C - EB	
in	in	in	in	Lbs
mm	mm	mm	mm	Kgs
2 x 2 x 2½	2,375 x 2,375 x 2,875	3,74	3,27	4,03
50 x 50 x 65	60.3 x 60.3 x 73.0	95	83	1,83
2 x 2 x 3	2,375 x 2,375 x 3,500	4,25	3,74	4,34
50 x 50 x 80	60.3 x 60.3 x 88.9	108	95	1,97
2 x 2 x 4	2,375 x 2,375 x 4,500	5,00	4,02	7,05
50 x 50 x 100	60.3 x 60.3 x 114.3	127	102	3,20
2½ x 2½ x 3	2,875 x 2,875 x 3,500	4,25	3,75	5,62
65 x 65 x 80	73.0 x 73.0 x 88.9	108	95	2,55
2½ x 2½ x 4	2,875 x 2,875 x 4,500	5,00	4,00	7,32
65 x 65 x 100	73.0 x 73.0 x 114.3	127	102	3,32
3 x 3 x 4	3,500 x 3,500 x 4,500	5,00	4,00	7,94
80 x 80 x 100	88.9 x 88.9 x 114.3	127	102	3,60
4 x 4 x 6	4,500 x 4,500 x 6,625	6,50	5,00	14,99
100 x 100 x 150	114.3 x 114.3 x 168.3	165	127	6,80
5 x 5 x 8	5,563 x 5,563 x 8,625	7,75	5,50	31,00
125 x 125 x 200	141.3 x 141.3 x 219.1	197	140	14,00
6 x 6 x 8	6,625 x 6,625 x 8,625	7,75	6,50	29,12
150 x 150 x 200	168.3 x 168.3 x 219.1	197	165	13,21

Model

7150F Reducing Socket (GR X FT)

7150M Reducing Nipple (GR X MT)

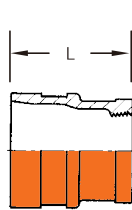
The Shurjoint Models 7150F & 7150M are designed for making a direct reduction from a grooved system to a female or male threaded system without the need for more costly swaged nipples or adapters.



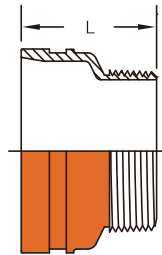
7150F



7150M



7150F



7150M

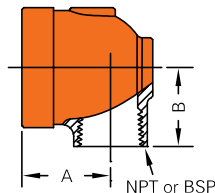
Nominal Size Gr. X Th.	Pipe O.D.	7150F		7150M	
		L	Weight	L	Weight
in	in	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs
1½ x 1	1.900 x 1.315	2.5	0.60	2.5	0.53
40 x 25	48.3 x 33.4	63.5	0.27	63.5	0.24
2 x 1	2.375 x 1.315	2.5	0.92	2.5	0.88
50 x 25	60.3 x 33.4	63.5	0.42	63.5	0.40
2 x 1¼	2.375 x 1.660	2.5	1.01	2.5	0.70
50 x 32	60.3 x 42.2	63.5	0.46	63.5	0.32
2 x 1½	2.375 x 1.900	2.5	0.95	2.5	1.04
50 x 40	60.3 x 48.3	63.5	0.43	63.5	0.47
2½ x 1	2.875 x 1.315	2.5	1.21	2.5	0.88
65 x 25	73.0 x 33.4	63.5	0.55	63.5	0.40
76.1 mm x 25	3.000 x 1.315	2.5	1.21	2.5	1.64
	76.1 x 33.4	63.5	0.55	63.5	0.75
2½ x 1¼	2.875 x 1.660	2.5	1.17	2.5	1.59
65 x 32	73.0 x 42.2	63.5	0.53	63.5	0.72
76.1 mm x 32	3.000 x 1.660	2.5	1.17	2.5	1.59
	76.1 x 42.2	63.5	0.53	63.5	0.72
2½ x 1½	2.875 x 1.900	2.5	1.08	2.5	1.72
65 x 40	73.0 x 48.3	63.5	0.49	63.5	0.78
76.1 mm x 40	3.000 x 1.900	2.5	1.08	2.5	1.72
	76.1 x 48.3	63.5	0.49	63.5	0.78
2½ x 2	2.875 x 2.375	2.5	1.52	2.5	0.92
65 x 50	73.0 x 60.3	63.5	0.69	63.5	0.42
76.1 mm x 50	3.000 x 2.375	2.5	1.52	2.5	1.09
	76.1 x 60.3	63.5	0.69	63.5	0.49
3 x 1	3.500 x 1.315	2.5	1.91	2.5	1.25
80 x 25	88.9 x 33.4	63.5	0.87	63.5	0.57
3 x 1¼	3.500 x 1.660	2.5	1.50	2.5	1.67
80 x 32	88.9 x 42.2	63.5	0.68	63.5	0.76
3 x 1½	3.500 x 1.900	2.5	1.63	2.5	1.53
80 x 40	88.9 x 48.3	63.5	0.74	63.5	0.74
3 x 2	3.500 x 2.375	2.5	1.56	2.5	1.32
80 x 50	88.9 x 60.3	63.5	0.71	63.5	0.60
3 x 2½	3.500 x 2.875	2.5	2.20	2.5	2.20
80 x 65	88.9 x 73.0	63.5	1.00	63.5	1.00
80 x 76.1 mm	3.500 x 3.000	2.5	2.20	2.5*	2.20
	88.9 x 76.1	63.5	1.00	63.5	1.00
4 x 1¼	4.500 x 1.660	3	2.33	3	2.19
100 x 32	114.3 x 42.2	76.1	1.06	76.1	0.99
4 x 1½	4.500 x 1.900	3	2.05	3	2.05
100 x 40	114.3 x 48.3	76.1	0.93	76.1	0.93
4 x 2	4.500 x 2.375	3	2.29	3	2.31
100 x 50	114.3 x 60.3	76.1	1.03	76.1	1.05
4 x 2½	4.500 x 2.875	3	2.25	3	2.05
100 x 65	114.3 x 73.0	76.1	1.02	76.1	0.93
100 x 76.1 mm	4.500 x 3.000	3	2.25	3*	2.05
	114.3 x 76.1	76.1	1.02	76.1	0.93
5 x 1½	5.563 x 1.900	3.5*	3.94	3.5*	2.05
125 x 40	141.3 x 48.3	88.9	1.79	88.9	0.93
139.7 mm x 40	5.500 x 1.900	3.5*	3.94	3.5*	2.05
	139.7 x 48.3	88.9	1.79	88.9	0.93
6 x 1½	6.625 x 1.900	4	6.47	4	4.84
150 x 40	168.3 x 48.3	101.6	2.94	101.6	2.20
165.1 mm x 40	6.500 x 1.900	4	5.56	4	4.75
	165.1 x 48.3	101.6	2.52	101.6	2.15
6 x 2	6.625 x 2.375	4	5.28	4	4.91
150 x 50	168.3 x 60.3	101.6	2.40	101.6	2.23
165.1 mm x 50	6.500 x 2.375	4	5.28	4	4.91
	165.1 x 60.3	101.6	2.40	101.6	2.23
6 x 2½	6.625 x 2.875	4	5.46	4	4.91
150 x 65	168.3 x 73.0	101.6	2.48	101.6	2.23
165.1 mm	6.500 x 3.000	4*	4.40	4*	4.97
x 76.1 mm	165.1 x 76.1	101.6	2.00	101.6	2.26
	6 x 4	4	6.37	4	4.52
150 x 100	168.3 x 114.3	101.6	2.89	101.6	2.10
165.1 mm x 100	6.500 x 4.500	4	4.52	4	4.52
	165.1 x 114.3	101.6	2.10	101.6	2.10

*Non-standard/stock items may require longer lead time.

Model

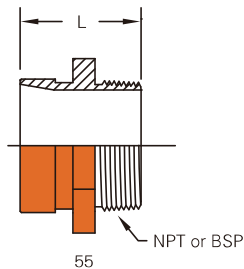
899 End-All Fitting

The **Shurjoint Model 899 End-All** fitting is a unique domed end cap fitting available with a ½", ¾" or 1" NPT or BSP threaded outlet. Designed as an end of line fitting, the End-All features two multi-function bosses which can be used for the direct connection of


Model

55 Adapter Nipple (GR X MT)

The **Shurjoint Model 55** is an integral cast adapter that allows for a direct transition from a grooved system to a male threaded system or component. For other sizes see page 69, Model 57, 58 & 59 nipples.



55

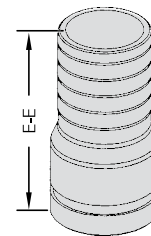
Nominal Size Grooved x Threaded in / mm	Pipe O.D. in / mm	L in / mm	Weight Lbs / Kgs
1½ x 1½M	1.900	2.50	0.77
40 x 40M	48.3	63.5	0.35
2 x 2M	2.375	2.50	0.90
50 x 50M	60.3	63.5	0.40

Model

56 Hose Nipple

The **Shurjoint Model 56** hose nipple allows for a direct connection with rubber or plastic hoses.

Material: Ductile iron ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15.



Nominal Size	Pipe O.D.	E-E	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
1½	1.900	4.0	0.7
40	48.3	102	0.3
2	2.375	4.6	1.2
50	60.3	117	0.6
2½	2.875	5.5	2.2
65	73.0	140	1.0
3	3.500	6.0	3.3
80	88.9	152	1.5
4	4.500	7.25	5.5
100	114.3	184	2.5
5*	5.563	9.75	8.1
125	141.3	248	3.7
6	6.625	11.0	14.5
150	168.3	279	6.6
8	8.625	12.5	24.2
200	219.1	318	11.0
10*	10.750	14.0	29.0
250	273.0	356	13.2
12*	12.750	16.0	46.0
300	323.9	406	20.9

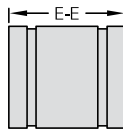
*Non-standard/stock items may require longer lead time.

Model

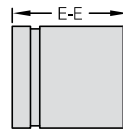
57 Nipple, Groove X Groove

58 Nipple, Groove X Bevel

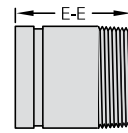
59 Nipple, Groove X Thread



57
Gr. x Gr.



58
Gr. x Bev.



59
Gr. x Th

Nominal Pipe Size	Pipe O.D.	57 (Gr x Gr)		58 (Gr x Bev)		59 (Gr x Th)	
		E - E	Weight	E - E	Weight	E - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs
¾	1.050	3	0.29	3	0.29	3	0.29
20	26.7	76	0.13	76	0.13	76	0.13
1	1.315	3	0.42	3	0.42	4	0.46
25	33.4	76	0.19	76	0.19	102	0.21
1¼	1.660	4	0.68	4	0.70	4	0.66
32	42.2	102	0.31	102	0.32	102	0.30
1½	1.900	4	0.82	4	0.84	4	0.79
40	48.3	102	0.37	102	0.38	102	0.36
2	2.375	4	1.10	4	1.10	4	1.10
50	60.3	102	0.50	102	0.50	102	0.50
2½	2.875	4	1.76	4	1.76	4	1.54
65	73.0	102	0.80	102	0.80	102	0.72
76.1 mm	3.000	4	1.98	4	1.98	4	1.98
	76.1	102	0.90	102	0.90	102	0.90
3	3.500	4	2.40	4	2.40	4	2.20
80	88.9	102	1.10	102	1.10	102	1.00
4	4.500	6	5.17	6	5.17	6	4.84
100	114.3	152	2.35	152	2.35	152	2.20
5	5.563	6	7.26	6	7.26	6	6.60
125	141.3	152	3.30	152	3.30	152	3.00
139.7 mm	5.500	6	7.26	6	7.26	6	6.60
	139.7	152	3.30	152	3.30	152	3.00
6	6.625	6	9.90	6	9.90	6	9.81
150	168.3	152	4.50	152	4.50	152	4.46
165.1 mm	6.500	6	9.46	6	9.46	6	9.81
	165.1	152	4.30	152	4.30	152	4.46
8	8.625	6	14.30	6	14.30	—	—
200	219.1	152	6.50	152	6.50	—	—
10	10.750	8	27.06	8	19.00	—	—
250	273.0	203	12.30	203	8.66	—	—
12	12.750	8	35.64	8	22.35	—	—
300	323.9	203	16.20	203	10.16	—	—
200 JIS	8.516	6	14.30	6	14.30	—	—
	216.3	152	6.50	152	6.50	—	—
250 JIS	10.528	8	27.06	8	19.00	—	—
	267.4	203	12.30	203	8.66	—	—
300 JIS	12.539	8	35.64	8	22.35	—	—
	318.5	203	16.20	203	10.16	—	—

* Note: Present dimensions and other information for the model 54 which is the groove by female.

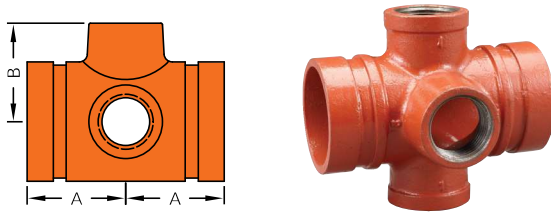
Sprinkler Hubs

The Shurjoint Sprinkler Hubs are grooved-end manifold fittings with a number of threaded outlets to accommodate flexible sprinkler hoses. The Sprinkler Hubs can also be used in combination with flexible sprinkler hoses and traditional hard piping depending on your requirements. These fittings work as a hub for multiple flexible hoses and or hard pipe runs, thus reducing the number of headers, drop nipples and fittings required. All outlets are 1" NPT or BSPT. Maximum working pressure is 300 psi (20 Bar, 2.0 MPa) CWP. cULus listed and FM approved. The C-E dimensions conform to ANSI B16.3 Class 150.



Model

850 Sprinkler Hub 3 Outlets

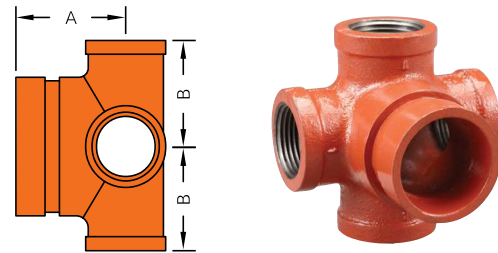


Size	A	B	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
2 x 2 x 1 (3)	2.38	2.02	2.20
50 x 50 x 25 (3)	60	51	1.00
2 1/2 x 2 1/2 x 1 (3)	2.38	2.25	2.75
65 x 65 x 25 (3)	60	57	1.25

(): Number of outlets

Model

853 Sprinkler End Hub 4 Outlets

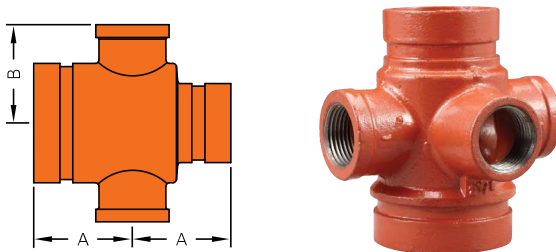


Size	A	B	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
1 1/2 x 1 (4)	2.38	1.80	1.76
40 x 25 (4)	60	46	0.8
2 x 1 (4)	2.38	2.02	2.20
50 x 25 (4)	60	51	1.00
2 1/2 x 1 (4)	2.38	2.25	2.64
65 x 25 (4)	60	57	1.20

(): Number of outlets

Model

851 Reducing Sprinkler Hub 3 Outlets



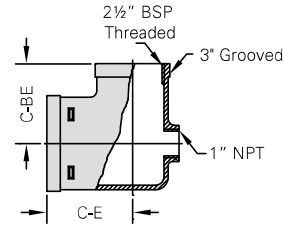
Size	A	B	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
2 x 1 1/2 x 1 (3)	2.38	2.02	2.20
50 x 40 x 25 (3)	60	51	1.00
2 1/2 x 1 1/2 x 1 (3)	2.38	2.25	2.65
65 x 40 x 25 (3)	60	57	1.20
2 1/2 x 2 x 1 (3)	2.38	2.25	2.86
65 x 50 x 25 (3)	60	60	1.30

(): Number of outlets

Model

7114 Hydrant Elbow

The **Shurjoint** Model 7114 Hydrant Elbow is designed for use on fire protection systems. The small end of the elbow offers both a 2½" BSP threaded outlet as well as a 3" grooved connection. The boss can be factory tapped to 1" BSP on request.

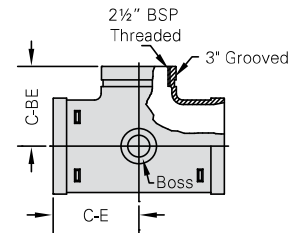


Nominal Pipe Size	Pipe O.D.	Dimensions		Weight
		C - E	C - BE	
in	in	in	in	Lbs
mm	mm	mm	mm	Kgs
4 x 3 x 1	4,500 x 3,500 x 1,315	4.00	3.75	5.95
100 x 80 x 25	114,3 x 88,9 x 33,4	102	95	2,70

Model

7122 Hydrant Tee

The **Shurjoint** Model 7122 Hydrant Tee is designed for use on fire protection systems. The 7122 tee offers both a 2½" BSP threaded and a 3" grooved outlet. The boss can be factory tapped to 1" BSP on request.

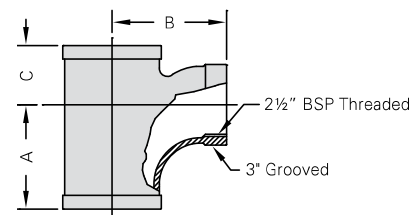


Nominal Pipe Size	Pipe O.D.	Dimensions		Weight
		C - E	C - BE	
in	in	in	in	Lbs
mm	mm	mm	mm	Kgs
4 x 4 x 3	4,500 x 4,500 x 3,500	4.00	4.00	7,72
100 x 100 x 80	114,3 x 114,3 x 88,9	102	102	3,50
165,1 mm x 165,1 mm x 80	6,500 x 6,500 x 3,500	5,13	5,13	12,21
	165,1 x 165,1 x 88,9	130	130	5,54

Model

7133 Pitcher Tee

The **Shurjoint** Model 7133 pitcher tee provides a quick and easy connection and transition from a grooved riser system to a threaded hydrant valve outlet. The pitcher tee is designed for 3", 4" and 6" steel pipe risers with a 2½" BSP threaded or 3" grooved hydrant connection outlet.



Nominal Pipe Size	Pip O.D.	Hydrant Outlet	Dimensions			Weight
			A	B	C	
in	in		in	in	in	Lbs
mm	mm		mm	mm	mm	Kgs
80 x 80 x 76.1mm	3,500 x 3,500 x 3,000	Taper	4.75	4.75	2.72	6.2
		BSP	121	121	69	2.8
100 x 100 x 76.1mm	4,500 x 4,500 x 3,000	Taper	4.75	5.25	2.72	7.5
		BSP	121	133	69	3.4

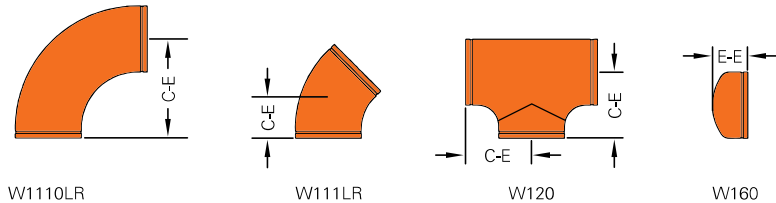
Wrought Grooved Fittings

Model

W110LR 90° Elbow
W120 Tee

W111LR 45° Elbow
W160 Cap

Shurjoint wrought steel grooved fittings are fabricated from standard weight (0.375" or 9.5 mm) carbon steel pipe to ASTM A234 Gr. WPB or equivalent, or segmentally welded with carbon steel of the same or equivalent grade. C-E dimensions conform to ANSI B16.9.



Nominal Size	Pipe O.D.	W110LR 90° L/R Elbows		W111LR 45° L/R Elbows		W120 Tee		W160 Cap	
		C-E	Weight	C-E	Weight	C-E	Weight	E-E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
10	10.750	15.000	78.0	6.25	39.0	—	—	—	—
250	273.0	381.0	35.4	158.8	17.7	—	—	—	—
12	12.750	18.000	114.6	7.50	57.3	—	—	—	—
300	323.9	457.2	52.0	190.5	26.0	—	—	—	—
14	14.000	21.00	149.4	8.75	74.8	11.00	110.2	6.50	35.0
350	355.6	533.4	67.9	222.3	34.0	279.4	50.0	165.0	15.9
16	16.000	24.00	195.8	10.00	98.1	12.00	145.4	7.00	44.0
400	406.4	609.6	89.0	254.0	44.6	304.8	66.1	178.0	20.0
18	18.000	27.00	248.6	11.25	124.3	13.50	169.8	8.00	56.1
450	457.2	685.8	113.0	285.5	56.5	342.9	77.0	203.0	25.5
20	20.000	30.00	308.0	12.50	154.0	15.00	209.4	9.00	70.0
500	508.0	762.0	140.0	317.5	70.0	381.0	95.0	229.0	31.8
22	22.000	33.00	371.8	13.50	187.0	16.50	277.2	10.00	85.4
550	558.8	838.2	169.0	342.9	85.0	419.1	126.0	254.0	38.8
24	24.000	36.00	444.4	15.00	222.2	17.00	267.9	10.50	99.2
600	609.6	914.4	202.0	381.0	101.0	431.8	121.5	267.0	45.1

* 22" availability upon request

Wrought Grooved Fittings

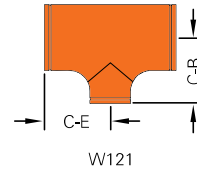
Model

W121 Reducing Tee

Material: ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or carbon steel of

the same or equivalent grade.

C-E & C-B dimensions conform to ANSI B16.9



Nominal Size	Pipe O.D.	W121 Reducing Tee		Weight	Nominal Size	Pipe O.D.	W121 Reducing Tee		Weight
		C - E	C - B				C - E	C - B	
in	in	in	in	Lbs	in	in	in	in	Lbs
mm	mm	mm	mm	Kgs	mm	mm	mm	mm	Kgs
14 x 6	14.000 x 6.625	11.0	9.37	99.0	20 x 6	20.000 x 6.625	15.0	12.36	196.9
350 x 150	355.6 x 168.3	279.0	238.0	45.0	500 x 150	508.0 x 168.3	381.0	314.0	89.5
14 x 8	14.000 x 8.625	11.0	9.76	101.0	20 x 8	20.000 x 8.625	15.0	12.76	198.0
350 x 200	355.6 x 219.1	279.0	248.0	46.0	500 x 200	508.0 x 219.1	381.0	324.0	90.0
14 x 10	14.000 x 10.750	11.0	10.12	104.0	20 x 10	18.000 x 10.750	15.0	13.11	200.0
350 x 250	355.6 x 273.0	279.0	257.0	47.0	500 x 250	508.0 x 273.0	381.0	333.0	90.9
14 x 12	14.000 x 12.750	11.0	10.63	106.0	20 x 12	20.000 x 12.750	15.0	13.62	202.4
350 x 300	355.6 x 323.9	279.0	270.0	48.0	500 x 300	508.0 x 323.9	381.0	346.0	92.0
16 x 6	16.000 x 6.625	12.0	10.40	125.8	20 x 14	20.000 x 14.000	15.0	14.02	204.4
400 x 150	406.4 x 168.3	305.0	264.0	57.2	500 x 350	508.0 x 355.6	381.0	356.0	92.9
16 x 8	16.000 x 8.625	12.0	10.75	127.2	20 x 16	20.000 x 16.000	15.0	14.02	204.6
400 x 200	406.4 x 219.1	305.0	273.0	57.8	500 x 400	508.0 x 406.4	381.0	356.0	93.6
16 x 10	16.000 x 10.750	12.0	11.14	129.6	20 x 18	20.000 x 18.000	15.0	14.50	207.9
400 x 250	406.4 x 273.0	305.0	283.0	58.9	500 x 450	508.0 x 457.2	381.0	368.0	94.5
16 x 12	16.000 x 12.750	12.0	11.61	132.2	24 x 6	20.000 x 6.625	17.0	14.38	266.4
400 x 300	406.4 x 323.9	305.0	295.0	60.1	600 x 150	609.6 x 168.3	432.0	365.0	122.0
16 x 14	16.000 x 14.000	12.0	12.00	134.4	24 x 8	20.000 x 8.625	17.0	14.76	270.6
400 x 350	406.4 x 355.6	305.0	305.0	61.1	600 x 200	609.6 x 219.1	432.0	375.0	123.0
18 x 6	18.000 x 6.625	13.5	11.38	159.7	24 x 10	24.000 x 10.750	17.0	15.12	271.0
450 x 150	457.2 x 168.3	343.0	289.0	72.6	600 x 250	609.6 x 273.0	432.0	384.0	123.2
18 x 8	18.000 x 8.625	13.5	11.75	160.6	24 x 12	24.000 x 12.750	17.0	15.63	273.2
450 x 200	457.2 x 219.1	343.0	298.0	73.0	600 x 300	609.6 x 323.9	432.0	397.0	124.2
18 x 10	18.000 x 10.750	13.5	12.13	162.8	24 x 14	24.000x14.000	17.0	16.00	275.0
450 x 250	457.2 x 273.0	343.0	308.0	74.0	600 x 350	609.6 x 355.6	432.0	406.0	125.0
18 x 12	18.000 x 12.750	13.5	12.64	165.2	24 x 16	24.000 x 16.000	17.0	16.00	275.0
450 x 300	457.2 x 323.9	343.0	321.0	75.1	600 x 400	609.6 x 406.4	432.0	406.0	125.0
18 x 14	18.000 x 14.000	13.5	13.00	167.2	24 x 18	24.000x18.000	17.0	16.50	279.6
450 x 350	457.2 x 355.6	343.0	330.0	76.0	600 x 450	609.6 x 457.2	432.0	419.0	127.1
18 x 16	18.000 x 16.000	13.5	13.00	167.9	24 x 20	24.000 x 20.000	17.0	17.00	281.6
450 x 400	457.2 x 406.4	343.0	330.0	76.3	600 x 500	609.6 x 508.0	432.0	432.0	128.0

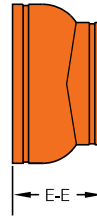
Wrought Grooved Fittings

Model

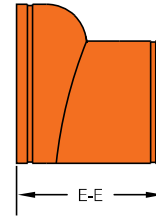
W150 Wrought Concentric Reducer

W151 Wrought Eccentric Reducer

Material: ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade E-E dimensions conform to ANSI B16.9.



W150



W151

Nominal Pipe Size	Pipe O.D.	W150 Concentric Reducer		W151 Eccentric Reducer	
		E-E	Weight	E-E	Weight
in	in	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs
14 x 6	14,000 x 6.625	13.00	67.76	13.00	67.76
350 x 150	355.6 x 168.3	330.0	30.8	330.0	30.8
14 x 8	14,000 x 8.625	13.00	69.96	13.00	69.96
350 x 200	355.6 x 219.1	330.0	31.8	330.0	31.8
14 x 10	14,000 x 10.750	13.00	71.94	13.00	71.94
350 x 250	355.6 x 273.0	330.0	32.7	330.0	32.7
14 x 12	14,000 x 12.750	13.00	73.92	13.00	73.92
350 x 300	355.6 x 323.9	330.0	33.6	330.0	33.6
16 x 8	16,000 x 8.625	14.00	87.78	14.00	87.78
400 x 200	406.4 x 219.1	356.0	39.9	356.0	39.9
16 x 10	16,000 x 10.750	14.00	90.86	14.00	90.86
400 x 250	406.4 x 273.0	356.0	41.3	356.0	41.3
16 x 12	16,000 x 12.750	14.00	92.84	14.00	92.84
400 x 300	406.4 x 323.9	356.0	42.2	356.0	42.2
16 x 14	16,000 x 14.000	14.00	94.82	14.00	94.82
400 x 350	406.4 x 355.6	356.0	43.1	356.0	43.1
18 x 10	18,000 x 10.750	15.00	111.76	15.00	111.76
450 x 250	457.2 x 273.0	381.0	50.8	381.0	50.8
18 x 12	18,000 x 12.750	15.00	114.84	15.00	114.84
450 x 300	457.2 x 323.9	381.0	52.2	381.0	52.2
18 x 14	18,000 x 14.000	15.00	117.70	15.00	117.70
450 x 350	457.2 x 355.6	381.0	53.5	381.0	53.5
18 x 16	18,000 x 16.000	15.00	120.78	15.00	120.78
450 x 400	457.2 x 406.4	381.0	54.9	381.0	54.9
20 x 12	20,000 x 12.750	20.00	159.72	20.00	159.72
500 x 300	508.0 x 323.9	508.0	72.6	508.0	72.6
20 x 14	20,000 x 14.000	20.00	163.68	20.00	163.68
500 x 350	508.0 x 355.6	508.0	74.4	508.0	74.4
20 x 16	20,000 x 16.000	20.00	167.64	20.00	167.64
500 x 400	508.0 x 406.4	508.0	76.2	508.0	76.2
20 x 18	20,000 x 18.000	20.00	171.60	20.00	171.6
500 x 450	508.0 x 457.2	508.0	78.0	508.0	78.0
24 x 16	24,000 x 16.000	20.00	197.56	20.00	197.56
600 x 400	609.6 x 406.4	508.0	89.8	508.0	89.8
24 x 18	24,000 x 18.000	20.00	199.54	20.00	199.54
600 x 450	609.6 x 457.2	508.0	90.7	508.0	90.7
24 x 20	24,000 x 20.000	20.00	203.50	20.00	203.50
600 x 500	609.6 x 508.0	508.0	92.5	508.0	92.5

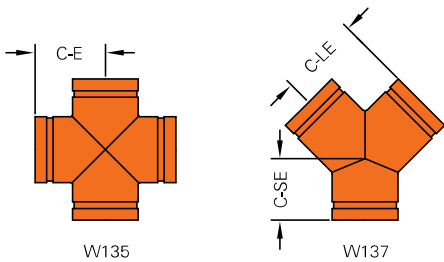
Wrought Grooved Fittings

Model

W135 Cross W137 True-Y

Material: Fabricated with ASTM A234 Gr. WPB, standard weight (0.375" or 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

C-LE and C-SE dimensions: manufacturer's standard.



Nominal Size	Pipe O.D.	W135 Cross		W137 True Wye		
		C-E	Weight	C-LE	C-SE	Weight
in	in	in	Lbs	in	in	Lbs
mm	mm	mm	Kgs	mm	mm	Kgs
14	14.000	11.00	121.0	11.00	7.50	98.0
350	355.6	279	54.9	279	191	44.4
16	16.000	12.00	146.4	12.00	8.00	119.3
400	406.4	305	66.4	305	203	54.1
18	18.000	13.50	185.4	13.50	8.50	148.3
450	457.2	343	84.1	343	216	67.3
20	20.000	15.00	229.1	15.00	9.00	180.4
500	508.0	381	103.9	381	229	81.8
24	24.000	17.00	298.7	17.00	10.00	238.3
600	609.6	432	135.5	432	254	108.1

Wrought Long Radius Elbows (Bends)

1. Long radius 90° elbows 3D, 5D, and 6D in sizes up to and including 4" are provided with 4" (102 mm) long tangents, sizes 5" to 10" are provided with 1D long tangents and sizes 12" to 24" are provided with 12" (305 mm) long tangents.

2. End Preparation: Roll-grooved to AWWA C606-04 and or ISO/FDIS 6182-12. For dimensional tolerances of cast fittings, refer to ISO/FDIS 6182-12 Table 3.

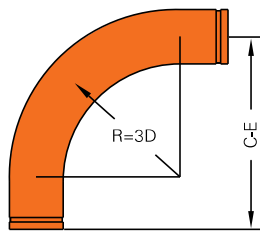
- Plain-end, beveled end or cut-grooved ends are also available upon request.

3. Material: Standard wall steel pipe to

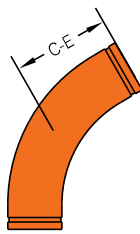
ASTM A53, Grade B. Other materials also available on request.

4. C to E tolerances: 2" through 6" $\pm \frac{1}{8}$ " (3.2 mm); 8" through 16" $\pm \frac{1}{4}$ " (6.4 mm); 18" through 24" $\pm \frac{3}{8}$ " (9.5 mm).

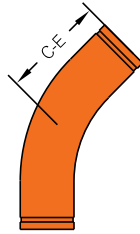
5. All weights are approximate, based on calculated weight of pipe.



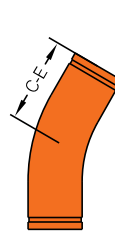
L90-3D



L60-3D



L45-3D



L30-3D



L22-3D



L11-3D

Wrought 3D Elbows

Model

L90-3D 90° L60-3D 60° L45-3D 45°
L30-3D 30° L22-3D 22½° L11-3D 11¼°



12" 3D 90° elbows ready for shipment

Nominal Size	Pipe O.D.	L90-3D 90° Elbow		L60-3D 60° Elbow		L45-3D 45° Elbow		L30-3D 30° Elbow		L22-3D 22½° Elbow		L11-3D 11¼° Elbow	
		C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
2	2.375	10.0	5.5	7.50	4.3	6.50	3.7	5.75	3.4	5.25	3.2	4.50	2.8
50	60.3	254	2.5	191	2.0	165	1.7	146	1.5	133	1.5	114	1.3
2½	2.875	11.5	9.9	8.25	7.7	7.25	6.7	6.00	5.8	5.50	5.3	4.75	4.6
65	73.0	292	4.5	210	3.5	184	3.0	152	2.6	140	2.4	121	2.1
3	3.500	13.0	14.6	9.25	11.0	7.75	10.1	6.50	8.0	5.75	7.3	5.00	6.2
80	88.9	330	6.6	235	5.0	197	4.6	165	3.6	146	3.3	127	2.8
3½	4.000	14.5	18.6	10.00	14.4	8.50	12.0	6.75	10.2	6.00	9.2	5.00	7.6
90	101.6	368	8.4	254	6.5	216	5.6	171	4.6	152	4.2	127	3.4
4	4.500	16.0	22.4	11.00	18.5	9.00	14.7	7.25	12.8	6.50	11.4	5.25	9.3
100	114.3	406	10.2	279	8.4	229	7.0	184	5.8	165	5.2	133	4.2
5	5.563	20.0	40.5	13.75	31.3	11.25	26.9	9.00	21.8	8.00	19.4	6.50	15.8
125	141.3	508	18.4	349	14.2	286	12.2	229	9.9	203	8.8	165	7.2
6	6.625	24.0	60.7	16.50	48.8	13.50	39.7	10.75	33.9	9.50	30.1	7.75	24.6
150	168.3	610	27.5	419	22.1	343	18.0	273	15.4	241	13.7	197	11.2
8	8.625	32.0	132.3	22.00	97.9	18.00	86.0	14.50	68.0	12.75	60.5	10.50	49.3
200	219.1	813	60.0	559	44.4	457	39.0	368	30.8	324	27.4	267	22.4
10	10.750	40.0	211.6	27.25	173.4	22.50	136.7	18.00	120.5	16.00	107.2	13.00	87.3
250	273.0	1016	96.0	692	78.7	572	62.0	457	54.7	406	48.6	330	39.6
12	12.750	48.0	319.7	32.75	254.8	27.00	205.0	21.75	177.0	19.25	157.5	15.50	128.3
300	323.9	1219	145.0	832	115.6	686	93.0	552	80.3	489	71.4	394	58.2
14	14.000	54.0	390.2	38.25	327.3	31.50	227.3	25.25	227.3	22.50	202.3	18.25	164.8
350	355.6	1372	177.0	972	148.5	800	103.1	641	103.1	572	91.8	464	74.8
16	16.000	60.0	546.8	43.75	429.0	36.00	350.5	29.00	297.9	25.25	265.2	20.75	216.0
400	406.4	1524	248.0	1111	194.6	914	159.0	737	135.1	648	120.3	527	98
18	18.000	66.0	639.2	49.25	544.4	40.25	461.3	32.50	378.1	28.75	336.5	23.35	274.1
450	457.2	1676	290.6	1251	246.9	1029	209.2	826	171.5	730	152.6	593	124.3
20	20.000	72.0	778.6	54.75	673.5	45.00	568.8	36.00	467.8	32.00	416.3	26.00	339.2
500	508.0	1829	353.15	1391	305.5	1143	258.0	914	212.2	813	188.8	660	153.9
24	24.000	84.0	1442.5	65.50	1297.5	53.75	1099.6	43.25	903.5	38.25	804.5	31.00	655.1
600	609.6	2134	654.3	1664	588.5	1365	498.8	1099	409.8	972	364.9	787	297.2
28	28.000	95.0	1897.5	70.00	1714.5	62.00	1486.6	47.00	1150.7	45.00	1109.3	35.00	868.6
700	711.2	2413	860.7	1778	777.7	1575	674.3	1194	522.0	1143	503.2	889	394.0

* For 24" & 28": Made by XS (12.7 mm) carbon steel pipe to ASTM A53.

Wrought 5D Elbows

Model

L90-5D 90° L60-5D 60° L45-5D 45°
L30-5D 30° L22-5D 22½° L11-5D 11¼°

Nominal Size	Pipe O.D.	L90-5D 90° Elbow		L60-5D 60° Elbow		L45-5D 45° Elbow		L30-5D 30° Elbow		L22-5D 22½° Elbow		L11-5D 11¼° Elbow	
		C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
2	2.375	14.00	7.2	9.75	5.6	8.25	4.8	6.75	4.0	6.00	3.6	5.00	3.0
50	60.3	356	3.3	248	2.5	210	2.2	171	1.8	152	1.6	127	1.4
2½	2.875	16.50	13.3	11.25	10.2	9.25	8.6	7.50	7.0	6.50	6.2	5.25	5.0
65	73.0	419	6.1	286	4.6	235	3.9	191	3.2	165	2.8	133	2.3
3	3.500	19.00	19.9	12.75	15.0	10.25	12.5	8.00	10.0	7.00	8.8	5.50	6.9
80	88.9	483	9.0	324	6.8	260	5.7	203	4.5	178	4.0	140	3.1
3½	4.000	21.50	26.9	12.25	20.0	11.25	16.5	8.75	13.0	7.50	11.3	5.75	8.7
90	101.6	546	12.2	311	9.1	286	7.5	222	5.9	191	5.1	146	3.9
4	4.500	24.00	35.4	15.50	26.0	12.50	21.3	9.50	16.6	8.00	14.3	6.00	10.7
100	114.3	610	16.1	394	11.8	318	9.7	241	7.5	203	6.5	152	4.9
5	5.563	30.00	59.9	19.50	44.1	15.50	36.1	11.75	28.1	10.00	24.1	7.50	18.2
125	141.3	762	27.2	495	20.0	394	16.4	298	12.7	254	10.9	191	8.3
6	6.625	36.00	93.3	23.25	68.6	18.50	56.2	14.00	43.8	12.00	37.6	9.00	28.3
150	168.3	914	42.4	591	31.1	470	25.5	356	19.9	305	17.1	229	12.8
8	8.625	48.00	187.4	31.00	137.7	24.50	112.8	18.75	87.9	16.00	75.4	12.00	56.8
200	219.1	1219	85.2	787	62.5	622	51.2	476	39.9	406	34.2	305	25.8
10	10.750	60.00	332.0	39.00	244.1	30.75	199.9	23.50	155.8	20.00	133.7	15.00	100.6
250	273.1	1524	150.9	991	110.7	781	90.7	597	70.7	508	60.6	381	45.6
12	12.750	72.00	488.0	46.75	358.6	37.00	293.7	28.00	228.9	24.00	196.4	18.00	147.8
300	323.9	1829	221.8	1187	162.7	940	133.2	711	103.8	610	89.1	457	67.0
14	14.000	82.00	608.5	54.50	460.7	43.00	377.3	32.75	294.0	28.00	252.3	21.00	189.8
350	355.6	2083	276.6	1384	209	1092	171.1	832	133.4	711	114.4	533	86.1
16	16.000	92.00	779.7	62.25	603.8	49.25	494.5	37.50	385.3	32.00	330.7	24.00	248.8
400	406.4	2337	354.4	1581	273.9	1251	224.3	953	174.8	813	150	610	112.9
18	18.000	102.00	971.4	70.00	766.2	55.25	627.6	42.25	489.0	36.00	419.7	27.00	315.7
450	457.2	2591	441.5	1778	347.5	1403	284.7	1073	221.8	914	190.4	686	143.2
20	20.000	112.00	1184.9	77.75	947.9	61.50	776.4	46.75	605.0	40.00	519.2	30.00	390.6
500	508.0	2845	538.6	1975	430.0	1562	352.2	1187	274.4	1016	235.5	762	177.2
24	24.000	132.00	1674.9	93.25	1369.3	73.75	1121.6	56.25	873.9	48.00	750.1	35.75	564.3
600	609.6	3353	761.3	2369	621.1	1873	508.7	1429	396.4	1219	340.2	908	256.0

Wrought 6D Elbows

Model

L90-6D 90° L60-6D 60° L45-6D 45°
L30-6D 30° L22-6D 22½° L11-6D 11¼°

Nominal Size	Pipe O.D.	L90-6D 90° Elbow		L60-6D 60° Elbow		L45-6D 45° Elbow		L30-6D 30° Elbow		L22-6D 22½° Elbow		L11-6D 11¼° Elbow	
		C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
2	2.375	16.00	8.2	11.00	6.3	9.00	5.3	7.25	4.3	6.50	3.9	5.25	3.2
50	60.3	406	3.7	279	2.9	229	2.4	184	2.0	165	1.8	133	1.5
2½	2.875	19.00	15.2	12.75	11.4	10.25	9.5	8.00	7.7	7.00	6.7	5.50	5.3
65	73.0	483	6.9	324	5.2	260	4.3	203	3.5	178	3.0	140	2.4
3	3.500	22.00	22.9	14.50	17.0	11.50	14	8.75	11.0	7.50	9.5	5.75	7.3
80	88.9	559	10.4	368	7.7	292	6.4	222	5.0	191	4.3	146	3.3
3½	4.000	25.00	31.1	16.25	22.8	12.75	18.6	9.75	14.4	8.25	12.3	6.00	9.2
90	101.6	635	14.1	413	10.3	324	8.4	248	6.5	210	5.6	152	4.2
4	4.500	28.00	41.0	18.00	29.8	14.00	24.1	10.50	18.5	8.75	15.7	6.50	11.4
100	114.3	711	18.6	457	13.5	356	10.9	267	8.4	222	7.1	165	5.2
5	5.563	35.00	69.5	22.25	50.5	17.50	40.9	13.00	31.3	11.00	26.5	8.00	19.4
125	141.3	889	31.6	565	22.9	445	18.6	330	14.2	279	12.0	203	8.8
6	6.625	42.00	108.2	26.75	78.6	21.00	63.7	15.75	48.8	13.25	41.3	9.50	30.1
150	168.3	1067	49.2	679	35.7	533	28.9	400	22.1	337	18.7	241	13.7
8	8.625	56.00	217.2	35.75	157.7	28.00	127.8	21.00	97.9	17.50	82.9	12.75	60.5
200	219.1	1422	98.7	908	71.5	711	58.0	533	44.4	445	37.6	324	27.4
10	10.750	70.00	384.9	44.75	279.4	35.00	226.4	26.00	173.4	22.00	146.9	16.00	107.2
250	273.1	1778	174.9	1137	126.7	889	102.7	660	78.7	559	66.6	406	48.6
12	12.750	84.00	565.8	53.50	410.5	41.75	332.7	31.25	254.8	26.25	215.9	19.00	157.5
300	323.9	2134	257.2	1359	186.2	1060	150.9	794	115.6	667	97.9	483	71.4
14	14.000	96.00	708.4	62.50	527.3	48.75	427.3	36.50	327.3	30.75	277.3	22.25	202.3
350	355.6	2438	322.0	1588	239.2	1238	193.8	927	148.5	781	125.8	565	91.8
16	16.000	108.00	910.6	71.50	691.1	55.75	560.1	41.75	429.0	35.25	363.5	25.50	265.2
400	406.4	2743	413.9	1816	313.5	1416	254.1	1060	194.6	895	164.9	648	120.3
18	18.000	120.00	1137.4	80.50	877.1	62.75	710.7	47.00	544.4	39.50	461.3	28.75	336.5
450	457.2	3048	517.0	2045	397.8	1594	322.4	1194	246.9	1003	209.2	730	152.6
20	20.000	132.00	1390.4	89.25	1085.1	69.75	879.3	52.25	673.5	44.00	570.7	31.75	416.3
500	508.0	3353	632.0	2267	492.2	1772	398.8	1327	305.5	1118	258.9	806	188.8
24	24.000	156.00	1972.1	107.25	1567.5	83.75	1270.3	62.50	973.0	52.34	824.4	38.25	601.4
600	609.6	3962	896.4	2724	711	2127	576.2	1588	441.3	1329	373.9	972	272.8

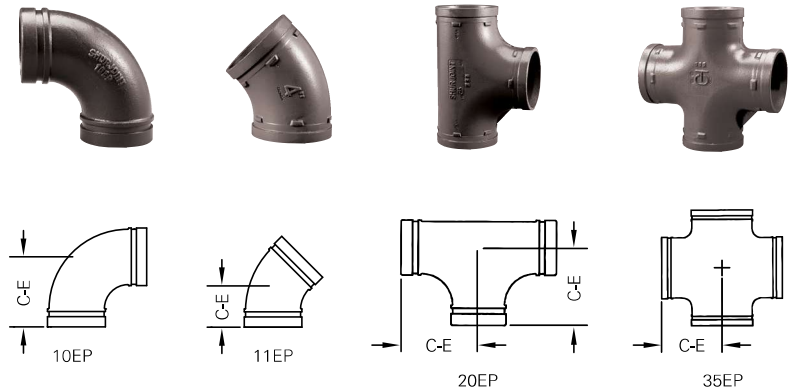
Extra Heavy Cut Grooved Fittings "EP" (End Protection)

Model

10EP 90° EP Elbow 20EP EP Tee 11EP 45° EP Elbow 35EP EP Cross

Shurjoint offers a variety of fittings with extra heavy (Sch. 80) wall thickness and "EP" cut grooves available for use with XH-70EP couplings. These fittings must be used with

XH-70EP couplings in high pressure systems where the system pressure exceeds the published ratings for XH-1000 or Model 7707 couplings.



Nominal Size	Pipe O.D.	#10EP 90° Elbows		#11EP 45° Elbows		#20EP Tee		#35EP Cross	
		C - E	Weight	C - E	Weight	C - E	Weight	C - E	Weight
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs
2	2.375	3.25	2.5	2.00	1.8	3.25	4.2	3.25*	3.9
50	60.3	83	1.1	51	0.8	83	1.9	83	1.8
2½	2.875	3.75	5.0	2.25*	2.9	3.75*	7.9	3.75*	6.6
65	73.0	95	2.3	57	1.3	95	3.6	95	3.0
3	3.500	4.25	6.0	2.50*	4.3	4.25*	16.0	4.25*	14.2
80	88.9	108	2.7	64	1.9	108	7.3	108	6.4
4	4.500	5.00	10.3	3.00*	8.5	5.00*	23.5	5.00*	15.8
100	114.3	127	4.7	76	3.9	127	10.7	127	7.2
6	6.625	6.50	27.2	3.50*	16.5	6.50*	27.0	6.50*	46.0
150	168.3	165	12.3	89	7.5	165	12.2	165	20.9

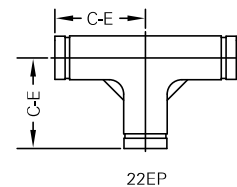
For "EP" cut-grooves, see page 30.

*Non-standard/stock items may require longer lead time.

Model

22EP Header Tee

The Shurjoint Model 22EP Header Tees are specifically designed for use in oilfield production headers where the top (test) line is 2" (50 mm) and the bottom production line is 3" (80 mm) or 4" (100 mm).



Fitting Size Mated C to E		#22EP Header Tee	
Nominal Size	Pipe O.D.	C - E	Weight
in	in	in	Lbs
mm	mm	mm	Kgs
2 to 3	2.375	4.25	3.4
50 to 80	60.3	108	1.5
2 to 4	2.875	5.00	4.1
50 to 100	73.0	127	1.9