

**MODELS 7110 90° ELBOW, REGULAR RADIUS
7111 45° ELBOW, REGULAR RADIUS
7112 22½° ELBOW
7113 11¼° ELBOW**

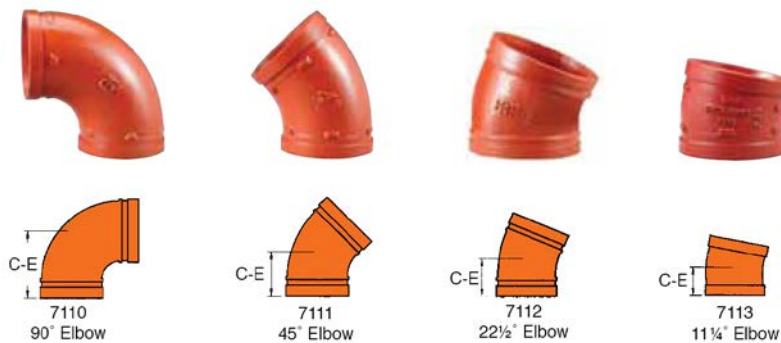
Shurjoint grooved-end elbows are made of ductile iron per ASTM A536 Gr. 65-45-12 and or ASTM A395 Gr. 65-45-15. C-E dimensions are manufacturer's standard.

For sizes larger than 14" (350 mm) are fabricated from standard weight (0.375" or 9.5 mm) carbon steel pipe to ASTM A234 GR. WPB or segmentally welded with carbon steel of the same or equivalent grade. C-E dimensions conform to ANSI B16.9.

Shurjoint standard fitting pressure ratings conform to the ratings of Model 7707 couplings.



For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit **SHURJOINT** website, www.shurjoint.com for details or contact your **SHURJOINT** Representative.



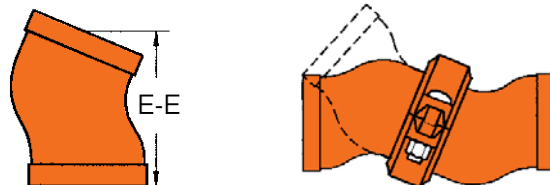
Full warranty terms can be found on www.shurjoint.com

Models 7110 / 7111 / 7112 / 7113 Elbows										
Nominal Pipe Size	Pipe O.D.	#7110 90° Elbows		#7111 45° Elbows		#7112 22½° Elbows		#7113 11¼° Elbows		
		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	2.88	6.5	2.00	4.5	
	139.7	140	4.3	83	2.9	73	2.9	51	2.0	
5	5.563	5.50	11.0	3.25	6.6	2.88	6.8	2.00	4.5	
125	141.3	140	5.0	83	3.0	73	3.1	51	2.1	
159.0 mm	6.250	6.50	13.2	3.50	8.4	---	---	---	---	
	159.0	165	6.0	89	3.8	---	---	---	---	

Models 7110 / 7111 / 7112 / 7113 Elbows										
Nominal Pipe Size	Pipe O.D.	#7110 90° C-E	Elbows Weight	#7111 45° C-E	Elbows Weight	7112 22½° C-E	Elbows Weight	#7113 11¼° C-E	Elbows Weight	
in	in	in	Lbs	in	Lbs	in	Lbs	in	Lbs	
mm	mm	mm	Kgs	mm	Kgs	mm	Kgs	mm	Kgs	
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	2.00	9.3	
	216.3	197	12.4	108	8.4	98	6.3	51	4.2	
250 JIS	10.528	9.00	52.8	4.75	34.2	4.38	22.5	2.13	22.1	
	267.4	229	24.0	121	15.5	111	10.2	54	10.0	
300 JIS	12.539	10.00	77.0	5.25	49.5	4.88	33.7	2.25	27.3	
	318.5	254	35.0	133	22.5	124	15.3	57	12.4	
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	---	---	---	---	
18	18.000	15.50	184.0	8.00	102.5	---	---	---	---	
450	457.2	394	83.5	203	46.6	---	---	---	---	
20	20.000	17.25	261.2	9.00	120.2	---	---	---	---	
500	508.0	438	118.5	229	54.5	---	---	---	---	
24	24.000	20.00	407.9	11.00	184.1	---	---	---	---	
600	609.6	508	185.0	280	83.5	---	---	---	---	

MODEL 7112G 22½° ELBOW, Goose Neck Design

Two 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.



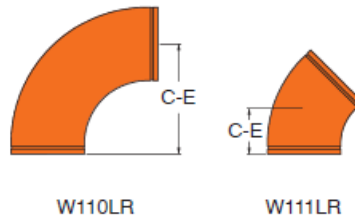
For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit Shurjoint website, www.shurjoint.com for details or contact your **SHURJOINT** Representative.

Model 7112G 22½° Elbow, Goose Neck Design			
Nominal Pipe Size	Pipe O.D.	E-E	7112 22½° Elbows 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

WROUGHT STEEL GROOVED END FITTINGS

MODELS W110LR 90° ELBOW, LONG RADIUS W111LR 45° ELBOW, LONG RADIUS

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



Models W110LR / W111LR Wrought Steel Elbows											
		W110LR				W111LR					
Nominal Pipe Size	Pipe O.D.	90° L/R Elbows		45° Elbows		Nominal Pipe Size	Pipe O.D.	90° L/R Elbows		45° Elbows	
		C-E	Weight	C-E	Weight			C-E	Weight	C-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
14	14.000	21.00	149.4	8.75	74.8	28	28.000	42.00	120.1	17.25	59.9
350	355.6	533.4	67.9	222.3	34.0	700	711.0	1066.8	264.7	438.2	132.1
16	16.000	24.00	195.8	10.00	98.1	30	30.000	45.00	137.7	18.50	68.8
400	406.4	609.6	89.0	254.0	44.6	750	762.0	1143.0	303.6	469.9	151.6
18	18.000	27.00	248.6	11.25	124.3	32	32.000	48.00	156.5	19.75	78.2
450	457.2	685.8	113.0	285.5	56.5	800	812.8	1219.2	345.1	501.7	172.4
20	20.000	30.00	308.0	12.50	154.0	34	34.000	51.00	176.6	21.00	88.2
500	508.0	762.0	140.0	317.5	70.0	850	863.6	1295.4	389.3	533.4	194.6
22	22.000	33.00	371.8	13.50	187.0	36	36.000	54.00	197.8	22.25	98.9
550	558.8	838.2	169.0	342.9	85.0	900	914.4	1371.6	436.1	565.2	218.1
24	24.000	36.00	444.4	15.00	222.2	40	40.000	60.00	244.2	24.88	122.7
600	609.6	914.4	202.0	381.0	101.0	1000	1016.0	1524.0	538.4	632.0	270.6
26	26.000	39.00	103.6	16.00	51.7	42	42.000	63.00	269.1	26.00	134.6
650	660.4	990.6	228.5	406.4	114.0	1050	1066.8	1600.2	593.2	660.4	296.7

MATERIAL SPECIFICATIONS

• Fitting body:

Ductile Iron castings to ASTM A536, Gr. 65-45-12 and or to ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).

Wrought fittings to ASTM A234 Gr. WPB, standard weight (0.375" or 9.5mm), or segmentally welded carbon steel of the same or equivalent grade.

• Surface Finish:

Orange color painted or red RAL3000 color painted.

- Hot dip galvanized (Option).
- Epoxy coated in red RAL3000 or other colors (Option)

General Notes:

- **Pressure Ratings** for fittings conform to the working pressure of the coupling used to join the system.
- **Listed and or Approved Pressures** are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the **Shurjoint** website.
- **Field Joint Test:** For one time only the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **The 10 Year Limited Warranty** applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.