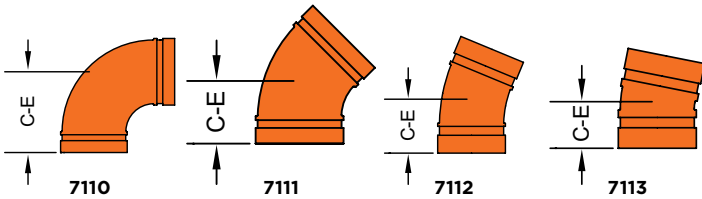


# GROOVED-END ELBOWS

- 7110 90° Elbow, Regular Radius
- 7111 45° Elbow, Regular Radius
- 7112 22-1/2° Elbow
- 7113 11-1/4° Elbow



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	



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.

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 [www.shurjoint.com](http://www.shurjoint.com) for details or contact Shurjoint.

## DIMENSIONS

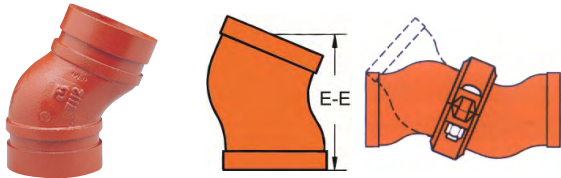
NOMINAL SIZE	PIPE O. D.	7110 90° ELBOW		7111 45° ELBOW		7112 22-1/2° ELBOW		#7113 11-1/4° ELBOW	
		C - E	WEIGHT	C - E	WEIGHT	C - E	WEIGHT	C - E	WEIGHT
in	in	in	lb	in	lb	in	lb	in	lb
mm	mm	mm	kg	mm	kg	mm	kg	mm	kg
1	1.315	2.25	0.7	1.75	0.5	---	---	1.38	0.4
25	33.4	57	0.3	45	0.2	---	---	35	0.2
1-1/4	1.66	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
1-1/2	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
2-1/2	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	3.00	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	3.50	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	4.50	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	---	---	---	---
165.1 mm	6.50	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	10.75	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

# GROOVED-END ELBOWS

- 7110 90° Elbow, Regular Radius
- 7111 45° Elbow, Regular Radius
- 7112 22-1/2° Elbow
- 7113 11-1/4° Elbow

NOMINAL SIZE	PIPE O. D.	7110 90° ELBOW		7111 45° ELBOW		7112 22-1/2° ELBOW		#7113 11-1/4° ELBOW	
		C - E	WEIGHT	C - E	WEIGHT	C - E	WEIGHT	C - E	WEIGHT
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	14.00	11.00	77.5	6.00	48.4	---	---	---	---
350	355.6	280	35.2	152	22.0	---	---	---	---
16	16.00	12.00	94.6	7.25	96.8	---	---	---	---
400	406.4	305	43.0	184	44.0	---	---	---	---
18	18.00	---	---	8	102.5	---	---	---	---
450	457.2	---	---	203	46.6	---	---	---	---
20	20.00	---	---	9	120.2	---	---	---	---
500	508	---	---	229	54.5	---	---	---	---
24	24.00	---	---	11	184.1	---	---	---	---
600	609.6	---	---	280	83.5	---	---	---	---

## MODEL 7112G 22-1/2° 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 [www.shurjoint.com](http://www.shurjoint.com) for details or contact Shurjoint.

NOMINAL SIZE	PIPE O. D.	7112G	22-1/2° ELBOWS
		E-E	WEIGHT
in	in	in	lb
mm	mm	mm	kg
1-1/2	1.9	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
2-1/2	2.875	4	2.2
65	73	102 G	1
76.1 mm	3.00	4	2.2
	76.1	102 G	1
3	3.5	4.5	3.1
80	88.9	114 G	1.4
4	4.50	5	4.4
100	114.3	127 G	2
139.7 mm	5.50	5	6.5
	139.7	127 G	2.9
5	5.563	5	6.8
125	141.3	127 G	3
165.1 mm	6.50	6.25	11
	165.1	159 G	5
6	6.625	6.25	11
150	168.3	159 G	5
8	8.625	7.75	22
200	219.1	197 G	10
200 JIS	8.516	7.75	19.2
	216.3	197 G	8.8

# GROOVED-END ELBOWS

7110	90° Elbow, Regular Radius
7111	45° Elbow, Regular Radius
7112	22-1/2° Elbow
7113	11-1/4° Elbow

## 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).

### SURFACE FINISH:

- Standard painted finishes in orange or RAL3000 red.
- Hot dip galvanized (optional)
- Epoxy coatings in RAL3000 red or other colors (optional)

## GENERAL NOTES

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Max. End Load is calculated based on the maximum working pressure (CWP).
- 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 1.5 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.