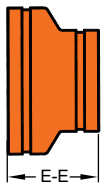


# GROOVED-END REDUCERS

7150 Concentric Reducer  
7151 Eccentric Reducer  
W150 Wrought Concentric Reducer  
W151 Wrought Eccentric Reducer



**7150**



**7151**



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

Shurjoint grooved-end reducers 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. E-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 [www.shurjoint.com](http://www.shurjoint.com) for details or contact Shurjoint.

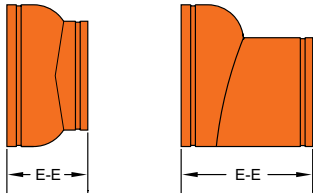
## DIMENSIONS

NOMINAL SIZE	PIPE O.D.	#7150 CONC. REDUCER		#7151 ECC. REDUCER	
		E - E	WEIGHT	E - E	WEIGHT
in	in	in	lb	in	lb
mm	mm	mm	kg	mm	kg
1-1/4 x 1	1.660 x 1.315	2.50	0.4	---	---
32 x 25	42.2 x 33.4	64	0.2	---	---
1-1/2 x 1	1.900 x 1.315	2.50	0.5	---	---
40 x 25	48.3 x 33.4	64	0.2	---	---
1-1/2 x 1-1/4	1.900 x 1.660	2.50	0.6	---	---
40 x 32	48.3 x 42.2	64	0.3	---	---
2 x 1	2.375 x 1.315	2.50*	0.9	---	---
50 x 25	60.3 x 33.4	64	0.4	---	---
2 x 1-1/4	2.375 x 1.660	2.50	0.7	---	---
50 x 32	60.3 x 42.2	64	0.3	---	---
2 x 1-1/2	2.375 x 1.900	2.50	0.8	---	---
50 x 40	60.3 x 48.3	64	0.4	---	---
2-1/2 x 2	2.875 x 2.375	2.50	1.1	3.50	1.4
65 x 50	73.0 x 60.3	64	0.5	89	0.7
76.1 x 50 mm	3.000 x 2.375	2.50	1.1	3.50	1.6
	76.1 x 60.3	64	0.5	89	0.7
3 x 1	3.500 x 1.315	2.50	1.3	---	---
80 x 25	88.9 x 33.4	64	0.6	---	---
3 x 1-1/2	3.500 x 1.660	2.50	1.3	---	---
80 x 32	88.9 x 42.2	64	0.6	---	---
3 x 1-1/2	3.500 x 1.900	2.50	1.3	---	---
80 x 40	88.9 x 48.3	64	0.6	---	---
3 x 2	3.500 x 2.375	2.50	1.3	3.50	2.2
80 x 50	88.9 x 60.3	64	0.6	89	1.0
3 x 2-1/2	3.500 x 2.875	2.50	1.3	3.50	2.2
80 x 65	88.9 x 73.0	64	0.6	89	1.0
80 x 76.1 mm	3.500 x 3.000	2.50	1.3	3.50	2.2
	88.9 x 76.1	64	0.6	89	1.0
4 x 2	4.500 x 2.375	3.00	2.0	4.00	2.8
100 x 50	114.3 x 60.3	76	0.9	102	1.3
4 x 2-1/2	4.500 x 2.875	3.00	2.2	4.00	3.3
100 x 65	114.3 x 73.0	76	1.0	102	1.5
100 x 76.1 mm	4.500 x 3.000	3.00	2.3	4.00	3.3
	114.3 x 76.1	76	1.0	102	1.5
4 x 3	4.500 x 3.500	3.00	2.2	4.00	2.9
100 x 80	114.3 x 88.9	76	1.0	102	1.3
5 x 4	5.563 x 4.500	3.50	3.6	4.00	6.2
125 x 100	141.3 x 114.3	89	1.6	102	2.8

NOMINAL SIZE	PIPE O.D.	#7150 CONC. REDUCER		#7151 ECC. REDUCER	
		E - E	WEIGHT	E - E	WEIGHT
in	in	in	lb	in	lb
mm	mm	mm	kg	mm	kg
6 x 2	6.625 x 2.375	4.00	4.2	4.00	4.4
150 x 50	168.3 x 60.3	102	1.9	102	2.0
6 x 2-1/2	6.625 x 2.875	4.00	4.4	---	---
150 x 65	168.3 x 73.0	102	2.0	---	---
6 x 3	6.625 x 3.500	4.00	4.4	4.00	7.8
150 x 80	168.3 x 88.9	102	2.0	102	3.5
6 x 4	6.625 x 4.500	4.00	4.6	4.00	5.8
150 x 100	168.3 x 114.3	102	2.1	102	2.7
6 x 5	6.625 x 5.563	4.00	5.5	4.00	9.9
150 x 125	168.3 x 141.3	102	2.5	102	4.5
165.1 x 50 mm	6.500 x 2.375	4.00	4.2	4.00	4.4
	165.1 x 60.3	102	1.9	102	2.0
165.1 x 76.1 mm	6.500 x 3.000	4.00	4.2	---	---
	165.3 x 76.1	102	1.9	---	---
165.1 x 80 mm	6.500 x 3.500	4.00	4.4	4.00	7.7
	165.1 x 88.9	102	2.0	102	3.5
165.1 x 100 mm	6.500 x 4.500	4.00	4.6	4.00	5.8
	165.1 x 114.3	102	2.1	102	2.7
165.1 x 139.7 mm	6.500 x 5.500	4.00	5.5	4.00	9.9
	165.1 x 139.7	102	2.5	102	4.5
8 x 3	8.625 x 3.500	5.00	9.5	---	---
200 x 80	219.1 x 88.9	127	4.3	---	---
8 x 4	8.625 x 4.500	5.00	11.2	5.00	14.6
200 x 100	219.1 x 114.3	127	5.1	127	6.6
8 x 6	8.625 x 6.625	5.00	11.4	5.00	12.0
200 x 150	219.1 x 168.3	127	5.2	127	5.5
10 x 4	10.750 x 4.500	6.00	19.8	6.00	26.4
250 x 100	273.0 x 114.3	152	9.0	152	12.0
10 x 6	10.750 x 6.625	6.00	19.8	6.00	25.3
250 x 150	273.0 x 168.3	152	9.0	152	11.5
10 x 8	10.750 x 8.625	6.00	20.9	7.00	26.8
250 x 200	273.0 x 219.1	152	9.5	178	12.2
12 x 6	12.750 x 6.625	7.00	30.9	7.00	39.7
300 x 150	323.9 x 168.3	178	14.0	178	18.0
12 x 8	12.750 x 8.625	7.00	30.9	7.00	40.8
300 x 200	323.9 x 219.1	178	14.0	178	18.5
12 x 10	12.750 x 10.750	7.00	30.1	7.00	44.1
300 x 250	323.9 x 273.0	178	13.7	178	20.0

# GROOVED-END REDUCERS

- 7150 Concentric Reducer
- 7151 Eccentric Reducer
- W150 Wrought Concentric Reducer
- W151 Wrought Eccentric Reducer



**W150**

**W151**

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.

NOMINAL PIPE SIZE	PIPE O.D.	W150 CONCENTRIC REDUCER		W151 ECCENTRIC REDUCER		NOMINAL PIPE SIZE	PIPE O.D.	W150 CONCENTRIC REDUCER		W151 ECCENTRIC REDUCER	
		E-E	WEIGHT	E-E	WEIGHT			E-E	WEIGHT	E-E	WEIGHT
in	in	in	lb	in	lb	in	in	in	lb	in	lb
mm	mm	mm	kg	mm	kg	mm	mm	mm	kg	mm	kg
14 x 6	14.000 x 6.625	13.00	67.76	13.00	67.76	18 x 14	18.000 x 14.000	15.00	117.70	15.00	117.70
350 x 150	355.6 x 168.3	330.0	30.8	330.0	30.8	450 x 350	457.2 x 355.6	381.0	53.5	381.0	53.5
14 x 8	14.000 x 8.625	13.00	69.96	13.00	69.96	18 x 16	18.000 x 16.000	15.00	120.78	15.00	120.78
350 x 200	355.6 x 219.1	330.0	31.8	330.0	31.8	450 x 400	457.2 x 406.4	381.0	54.9	381.0	54.9
14 x 10	14.000 x 10.750	13.00	71.94	13.00	71.94	20 x 12	20.000 x 12.750	20.00	159.72	20.00	159.72
350 x 250	355.6 x 273.0	330.0	32.7	330.0	32.7	500 x 300	508.0 x 323.9	508.0	72.6	508.0	72.6
14 x 12	14.000 x 12.750	13.00	73.92	13.00	73.92	20 x 14	20.000 x 14.000	20.00	163.68	20.00	163.68
350 x 300	355.6 x 323.9	330.0	33.6	330.0	33.6	500 x 350	508.0 x 355.6	508.0	74.4	508.0	74.4
16 x 8	16.000 x 8.625	14.00	87.78	14.00	87.78	20 x 16	20.000 x 16.000	20.00	167.64	20.00	167.64
400 x 200	406.4 x 219.1	356.0	39.9	356.0	39.9	500 x 400	508.0 x 406.4	508.0	76.2	508.0	76.2
16 x 10	16.000 x 10.750	14.00	90.86	14.00	90.86	20 x 18	20.000 x 18.000	20.00	171.60	20.00	171.60
400 x 250	406.4 x 273.0	356.0	41.3	356.0	41.3	500 x 450	508.0 x 457.2	508.0	78.0	508.0	78.0
16 x 12	16.000 x 12.750	14.00	92.84	14.00	92.84	24 x 16	24.000 x 16.000	20.00	197.56	20.00	197.56
400 x 300	406.4 x 323.9	356.0	42.2	356.0	42.2	600 x 400	609.6 x 406.4	508.0	89.8	508.0	89.8
16 x 14	16.000 x 14.000	14.00	94.82	14.00	94.82	24 x 18	24.000 x 18.000	20.00	199.54	20.00	199.54
400 x 350	406.4 x 355.6	356.0	43.1	356.0	43.1	600 x 450	609.6 x 457.2	508.0	90.7	508.0	90.7
18 x 10	18.000 x 10.750	15.00	111.76	15.00	111.76	24 x 20	24.000 x 20.000	20.00	203.50	20.00	203.50
450 x 250	457.2 x 273.0	381.0	50.8	381.0	50.8	600 x 500	609.6 x 508.0	508.0	92.5	508.0	92.5
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						

## 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 9.5 mm), or segmentally welded carbon steel of the same or equivalent grade.

### 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.