



## MODELS 7150 CONCENTRIC REDUCER 7151 ECCENTRIC REDUCER

The **Shurjoint** concentric reducers and eccentric reducers are all cast using ductile iron except where indicated (SW). The end-to-end dimensions of these reducers are less than that of fabricated reducers of the same size.

All groove dimensions conform to ANSI / AWWA C606-04 and or ISO/FDIS 6182-12. For dimensional tolerances of cast fittings, refer to ISO/FDIS 6182-12 Table 3.



## MATERIAL SPECIFICATIONS

- **Fitting body:**  
Ductile Iron to ASTM A536, Gr. 65-45-12, Min. tensile strength 448MPa (65,000 psi).
- **Surface Finish:**  
Orange color painted or red RAL3000 color painted.
  - Hot dip galvanized (Option).
  - Epoxy coated in red RAL3000 or other colors (Option)

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.

**MODELS 7150 CONCENTRIC REDUCER  
7151 ECCENTRIC REDUCER**

 Fig. 7150 Conc.  
Reducer

 Fig. 7151  
Ecc. Reducer

**Models 7150 Concentric Reducer / 7151 Eccentric Reducer**

Nominal Pipe Size	Pipe OD	7150 Concentric Reducer		7151 Eccentric Reducer	
		E-E	Weight	E-E	Weight
<i>mm / in</i>	<i>mm / in</i>	<i>mm / in</i>	<i>Kgs / Lbs</i>	<i>mm / in</i>	<i>Kgs / Lbs</i>
32 x 25 <i>1.25 x 1</i>	42.2 x 33.4 <i>1.660 x 1.315</i>	64 <i>2.50</i>	0.3 <i>0.7</i>	---	---
40 x 25 <i>1.5 x 1</i>	48.3 x 33.4 <i>1.900 x 1.315</i>	64 <i>2.50</i>	0.4 <i>0.9</i>	---	---
40 x 32 <i>1.5 x 1.25</i>	48.3 x 42.2 <i>1.900 x 1.660</i>	64 <i>2.50</i>	0.4 <i>0.9</i>	---	---
50 x 25 <i>2 x 1</i>	60.3 x 33.4 <i>2.375 x 1.315</i>	64 <i>2.50</i>	0.4 <i>0.9</i>	---	---
50 x 32 <i>2 x 1.25</i>	60.3 x 42.2 <i>2.375 x 1.660</i>	64 <i>2.50</i>	0.4 <i>0.9</i>	---	---
50 x 40 <i>2 x 1.5</i>	60.3 x 48.3 <i>2.375 x 1.900</i>	64 <i>2.50</i>	0.4 <i>0.9</i>	---	---
65 x 50 <i>2.5 x 2</i>	73.0 x 60.3 <i>2.875 x 2.375</i>	64 <i>2.50</i>	0.5 <i>1.1</i>	89 <i>3.50</i>	0.7 <i>1.5</i>
65 x 50 <i>2.5 x 2</i>	76.1 x 60.3 <i>3.000 x 2.375</i>	64 <i>2.50</i>	0.5 <i>1.1</i>	89 <i>3.50</i>	0.7 <i>1.5</i>
80 x 50 <i>3 x 2</i>	88.9 x 60.3 <i>3.500 x 2.375</i>	64 <i>2.50</i>	0.6 <i>1.3</i>	89 <i>3.50</i>	1.0 <i>2.2</i>
80 x 65 <i>3 x 2.5</i>	88.9 x 73.0 <i>3.500 x 2.875</i>	64 <i>2.50</i>	0.6 <i>1.3</i>	89 <i>3.50</i>	1.0 <i>2.2</i>
80 x 65 <i>3 x 2.5</i>	88.9 x 76.1 <i>3.500 x 3.000</i>	64 <i>2.50</i>	0.6 <i>1.3</i>	89 <i>3.50</i>	1.0 <i>2.2</i>
100 x 50 <i>4 x 2</i>	114.3 x 60.3 <i>4.500 x 2.375</i>	76 <i>3.00</i>	1.1 <i>2.2</i>	102 <i>4.00</i>	1.4 <i>3.1</i>
100 x 65 <i>4 x 2.5</i>	114.3 x 73.0 <i>4.500 x 2.875</i>	76 <i>3.00</i>	1.0 <i>2.2</i>	102 <i>4.00</i>	1.5 <i>3.3</i>
100 x 65 <i>4 x 2.5</i>	114.3 x 76.1 <i>4.500 x 3.000</i>	76 <i>3.00</i>	1.0 <i>2.2</i>	102 <i>4.00</i>	1.5 <i>3.3</i>
100 x 80 <i>4 x 3</i>	114.3 x 88.9 <i>4.500 x 3.500</i>	76 <i>3.00</i>	1.0 <i>2.2</i>	102 <i>4.00</i>	1.6 <i>3.5</i>
125 x 100 <i>5 x 4</i>	141.3 x 114.3 <i>5.563 x 4.500</i>	89 <i>3.50</i>	2.0 <i>4.4</i>	102 <i>4.00</i>	2.7 <i>6.0</i>
150 x 50 <i>6 x 2</i>	168.3 x 60.3 <i>6.625 x 2.375</i>	102 <i>4.00</i>	1.9 <i>4.2</i>	102 <i>4.00</i>	3.1 <i>6.9</i>
150 x 80 <i>6 x 3</i>	168.3 x 88.9 <i>6.625 x 3.500</i>	102 <i>4.00</i>	2.0 <i>4.4</i>	102 <i>4.00</i>	3.5 <i>7.7</i>
150 x 100 <i>6 x 4</i>	168.3 x 114.3 <i>6.625 x 4.500</i>	102 <i>4.00</i>	2.1 <i>4.6</i>	102 <i>4.00</i>	3.8 <i>8.4</i>
150 x 125 <i>6 x 5</i>	168.3 x 141.3 <i>6.625 x 5.563</i>	102 <i>4.00</i>	2.5 <i>5.5</i>	102 <i>4.00</i>	4.5 <i>9.9</i>
150 x 50 <i>6 x 2</i>	165.1 x 60.3 <i>6.500 x 2.375</i>	102 <i>4.00</i>	1.9 <i>4.2</i>	102 <i>4.00</i>	3.1 <i>6.9</i>
150 x 65 <i>6 x 2.5</i>	168.3 x 76.1 <i>6.625 x 3.000</i>	102 <i>4.00</i>	1.9 <i>4.2</i>	---	---
150 x 80 <i>6 x 3</i>	165.1 x 88.9 <i>6.500 x 3.500</i>	102 <i>4.00</i>	2.0 <i>4.4</i>	102 <i>4.00</i>	3.5 <i>7.7</i>
150 x 100 <i>6 x 4</i>	165.1 x 114.3 <i>6.500 x 4.500</i>	102 <i>4.00</i>	2.1 <i>4.6</i>	102 <i>4.00</i>	3.8 <i>8.4</i>
200 x 80 <i>8 x 3</i>	219.1 x 88.9 <i>8.625 x 3.500</i>	127 <i>5.00</i>	5.0 <i>11.0</i>	---	---
200 x 100 <i>8 x 4</i>	219.1 x 114.3 <i>8.625 x 4.500</i>	127 <i>5.00</i>	5.1 <i>11.2</i>	127 <i>5.00</i>	5.4 <i>11.9</i>
200 x 150 <i>8 x 6</i>	219.1 x 168.3 <i>8.625 x 6.625</i>	127 <i>5.00</i>	5.2 <i>11.4</i>	127 <i>5.00</i>	8.0 <i>17.6</i>

**Models 7150 Concentric Reducer / 7151 Eccentric Reducer**

Nominal Pipe Size	Pipe OD	7150 Concentric Reducer		7151 Eccentric Reducer	
		E-E mm / in	Weight Kgs / Lbs	E-E mm / in	Weight Kgs / Lbs
250 x 100 <i>10 x 4</i>	273.0 x 114.3 <i>10.750 x 4.500</i>	152 <i>6.00</i>	9.0 <i>19.8</i>	152 <i>6.00</i>	12.0 <i>26.4</i>
250 x 150 <i>10 x 6</i>	273.0 x 168.3 <i>10.750 x 6.625</i>	152 <i>6.00</i>	9.0 <i>19.8</i>	152 <i>6.00</i>	11.5 <i>25.3</i>
250 x 200 <i>10 x 8</i>	273.0 x 219.1 <i>10.750 x 8.625</i>	152 <i>6.00</i>	9.5 <i>20.9</i>	330 <i>13.00SW</i>	12.0 <i>26.4</i>
300x150 <i>12 x 6</i>	323.9 x 168.3 <i>12.750 x 6.625</i>	178 <i>7.00</i>	12.0 <i>26.4</i>	178 <i>7.00</i>	18.0 <i>39.6</i>
300 x 200 <i>12 x 8</i>	323.9 x 219.1 <i>12.750 x 8.625</i>	178 <i>7.00</i>	14.0 <i>30.8</i>	178 <i>7.00</i>	29.3 <i>53.5</i>
300 x 250 <i>12 x 10</i>	323.9 x 273.0 <i>12.750 x 10.750</i>	178 <i>7.00</i>	15.0 <i>33.0</i>	178 <i>7.00</i>	20.2 <i>44.0</i>
350 x 150 <i>14 x 6</i>	355.6 x 168.3 <i>14.000 x 6.625</i>	330 <i>13.00SW</i>	19.5 <i>42.9</i>	330 <i>13.00SW</i>	28.0 <i>62.0</i>
350 x 200 <i>14 x 8</i>	355.6 x 219.1 <i>14.000 x 8.625</i>	203 <i>8.00</i>	19.0 <i>41.8</i>	330 <i>13.00SW</i>	28.0 <i>62.0</i>
350 x 250 <i>14 x 10</i>	355.6 x 273.0 <i>14.000 x 10.750</i>	203 <i>8.00</i>	32.5 <i>71.5</i>	330 <i>13.00SW</i>	28.0 <i>62.0</i>
350 x 300 <i>14 x 12</i>	355.6 x 323.9 <i>14.000 x 12.750</i>	203 <i>8.00</i>	23.0 <i>50.6</i>	330 <i>13.00SW</i>	28.0 <i>62.0</i>
400 x 150 <i>16 x 6</i>	406.4 x 168.3 <i>16.000 x 6.625</i>	356 <i>14.00SW</i>	29.7 <i>65.4</i>	356 <i>14.00SW</i>	29.7 <i>65.4</i>
400 x 200 <i>16 x 8</i>	406.4 x 219.1 <i>16.000 x 8.625</i>	229 <i>9.00</i>	32.0 <i>70.4</i>	356 <i>14.00SW</i>	35.0 <i>77.0</i>
400 x 250 <i>16 x 10</i>	406.4 x 273.0 <i>16.000 x 10.750</i>	336 <i>14.00SW</i>	29.5 <i>64.9</i>	356 <i>14.00SW</i>	35.0 <i>77.0</i>
400 x 300 <i>16 x 12</i>	406.4 x 323.9 <i>16.000 x 12.750</i>	229 <i>9.00</i>	30.0 <i>66.0</i>	229 <i>9.00</i>	31.0 <i>68.2</i>
400 x 350 <i>16 x 14</i>	406.4 x 355.6 <i>16.000 x 14.000</i>	229 <i>9.00</i>	29.0 <i>63.8</i>	229 <i>9.00</i>	35.0 <i>77.0</i>
450 x 250 <i>18 x 10</i>	457.2 x 273.0 <i>18.000 x 10.750</i>	381 <i>15.00SW</i>	36.0 <i>79.2</i>	381 <i>15.00SW</i>	45.0 <i>99.0</i>
450 x 300 <i>18 x 12</i>	457.2 x 323.9 <i>18.000 x 12.750</i>	241 <i>9.50</i>	35.5 <i>78.1</i>	381 <i>15.00SW</i>	45.0 <i>99.0</i>
450 x 350 <i>18 x 14</i>	457.2 x 355.6 <i>18.000 x 14.000</i>	381 <i>15.00SW</i>	36.0 <i>79.2</i>	381 <i>15.00SW</i>	45.0 <i>99.0</i>
450 x 400 <i>18 x 16</i>	457.2 x 406.4 <i>18.000 x 16.000</i>	381 <i>15.00SW</i>	36.0 <i>79.2</i>	381 <i>15.00SW</i>	45.0 <i>99.0</i>
500 x 300 <i>20 x 12</i>	508.0 x 323.9 <i>20.000 x 12.750</i>	254 <i>10.00</i>	43.0 <i>94.6</i>	508 <i>20.00SW</i>	68.0 <i>149.6</i>
500 x 350 <i>20 x 14</i>	508.0 x 355.6 <i>20.000 x 14.000</i>	508 <i>20.00SW</i>	44.8 <i>98.6</i>	508 <i>20.00SW</i>	68.0 <i>149.6</i>
500 x 400 <i>20 x 16</i>	508.0 x 406.4 <i>20.000 x 16.000</i>	254 <i>10.00</i>	46.0 <i>101.2</i>	508 <i>20.00SW</i>	68.0 <i>149.6</i>
500 x 450 <i>20 x 18</i>	508.0 x 457.2 <i>20.000 x 18.000</i>	508 <i>20.00SW</i>	58.0 <i>127.6</i>	508 <i>20.00SW</i>	68.0 <i>149.6</i>
600 x 300 <i>24 x 12</i>	609.6 x 323.9 <i>24.000 x 12.750</i>	305 <i>12.00</i>	70.0 <i>154.0</i>	305 <i>12.00</i>	79.0 <i>173.8</i>
600 x 350 <i>24 x 14</i>	609.6 x 355.6 <i>24.000x14.000</i>	508 <i>20.00SW</i>	70.0 <i>154.0</i>	356 <i>14.00</i>	79.0 <i>173.8</i>
600 x 400 <i>24 x 16</i>	609.6 x 406.4 <i>24.000 x 16.000</i>	305 <i>12.00</i>	70.0 <i>154.0</i>	508 <i>20.00SW</i>	79.0 <i>173.8</i>
600 x 450 <i>24 x 18</i>	609.6 x 457.2 <i>24.000x18.000</i>	508 <i>20.00SW</i>	70.0 <i>154.0</i>	508 <i>20.00SW</i>	79.0 <i>173.8</i>
600 x 500 <i>24 x 20</i>	609.6 x 508.0 <i>24.000 x 20.000</i>	305 <i>12.00</i>	71.0 <i>156.2</i>	508 <i>20.00SW</i>	79.0 <i>173.8</i>

SW: Segment welded steel.

## General Notes:

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. This rating may occasionally differ from maximum working pressures listed and/or approved by cULus and/or FM as testing conditions and test pipes differ. For additional information contact **Shurjoint**.
- Maximum working pressures and end loads listed are total of internal and external pressures and loads based on Sch. 40 steel pipe with roll grooves to ANSI/AWWA C606-04 specifications. For information on other pipe schedules contact **Shurjoint**.
- **For one time field test only** the maximum joint working pressure may be increased 1-1/2 times the figures shown.
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- **Shurjoint** reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.