

- MODEL WS-10LR 90° Elbow**
- WS-11LR 45° Elbow**
- WS-20 TEE**
- WS-21 REDUCING TEE**
- WS-50 CONCENTRIC REDUCER**
- WS-51 ECCENTRIC REDUCER**

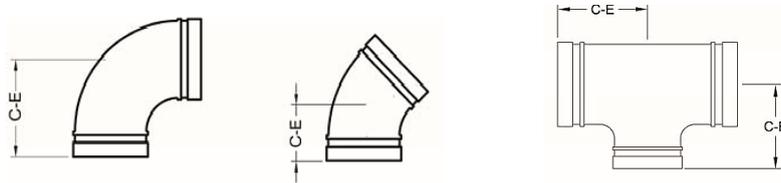


WS-21



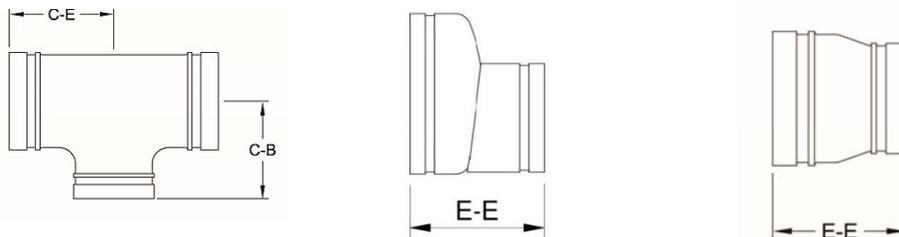
The **Shurjoint** Model WS-10LR, WS-11LR, WS-20, WS-21, WS-50, WS-51 wrought grooved end fittings are fabricated in stainless steel pipe or are segmentally welded.

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



| Models WS-10LR, WS-11LR, WS-20 | | | | | | | | |
|--------------------------------|----------------|--------------------------|---------------|--------------------------|--------------|-----------------|---------------|--|
| Nominal Pipe Size | Pipe O.D. | WS-10LR LR 90° Elbows | | WS-11LR LR 45° Elbows | | WS-20 Tee | | |
| | | C-E in / mm | Lbs Kgs | C-E in / mm | Lbs Kgs | C-E in / mm | Lbs Kgs | |
| 10 250 | 10.75 273.0 | 15.00 381.0 | 51.9 23.6 | -- -- | -- -- | 8.90* 226.0 | 42.9 19.5 | |
| 12 300 | 12.75 323.9 | 18.00 457.0 | 74.6 33.9 | 7.5 190 | 28.4 16.9 | 10.40* 264.0 | 58.9 26.8 | |
| 16 400 | 16.00 406.4 | 24.00 609.6 | 138.4 62.9 | | | 12.00* 304.8 | 93.3 42.4 | |
| 18 450 | 18.00 457.2 | | | | | 13.50* 342.9 | 120.1 54.6 | |

*Does not conform ANSI B16.9



| Models WS-21, WS-51, WS-50 | | | | | | | | |
|----------------------------|--------------------------------|-----------------------|----------------|--------------|----------------------------|---------------|----------------------------|--|
| Nominal Pipe Size | Pipe O.D. | WS-21 Reducing Tee | | | WS-51 Eccentric Reducer | | WS-50 Eccentric Reducer | |
| | | C-E in / mm | C-B in / mm | Lbs kgs | E-E in / mm | Lbs kgs | | |
| 250 JIS x 100 | 10.55 x 4.500 267.4 x 114.3 | 8.50 215.9 | 7.25 184.1 | 38.3 17.4 | | | | |
| 10 x 8 250 x 200 | 10.75 x 8.625 273.0 x 219.1 | | | | 7.0 178.0 | 22.8 10.40 | | |
| 12 x 4 300 x 100 | 12.75 x 4.50 323.9 x 114.3 | 10.00 254.0 | 8.50 215.9 | 51.9 23.6 | | | | |
| 300 JIS x 100 | 12.55 x 4.50 | 10.00 | 8.50 | 51.9 | | | | |

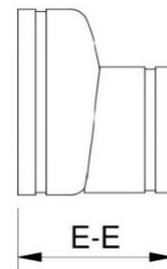
| | | | | | | |
|-----------------|---------------|-------|-------|-------|-------|-------|
| 12 x 6 | 318.5 x 114.3 | 254.0 | 215.9 | 23.6 | | |
| 300 x 150 | 12.75 x 6.63 | 10.00 | 8.62 | 52.4 | 8.0 | 21.1 |
| | 323.9 x 168.3 | 254.0 | 218.9 | 23.8 | 203.0 | 9.6 |
| 300 JIS x 165.1 | 12.75 x 6.50 | 10.00 | 8.62 | 52.4 | | |
| | 323.9 x 165.1 | 254.0 | 218.9 | 23.8 | | |
| 12 x 8 | 12.75 x 8.63 | | | | 8.0 | 20.9 |
| 300 x 200 | 323.9 x 219.1 | | | | 203.0 | 9.5 |
| 12 x 10 | 12.75 x 10.75 | 10.00 | 9.50 | 55.0 | | |
| 300 x 250 | 323.9 x 273.0 | 254.0 | 241.3 | 25.0 | | |
| 16 x 14 | 16.00 x 14.00 | 12.00 | 12.00 | 92.6 | | 14.0 |
| 400 x 350 | 406.4 x 355.6 | 304.8 | 304.8 | 42.1 | | 66.85 |
| | | | | | | 356.0 |
| | | | | | | 30.35 |
| 18 x 16 | 18.00 x 16.00 | 13.50 | 13.00 | 111.9 | | 15.0 |
| 450 x 400 | 457.2 x 406.4 | 342.9 | 330.2 | 50.9 | | 85.15 |
| | | | | | | 381.0 |
| | | | | | | 38.66 |

MODEL SS-51 WROUGHT STAINLESS STEEL ECCENTRIC REDUCER

Shurjoint SS-51 wrought stainless steel grooved end fittings are fabricated with stainless steel pipe or are segmentally welded. Other styles not listed are available upon request.

**The E-E dimension of SS-51 wrought stainless steel eccentric reducer doesn't conform to ANSI B16.9.*

| Model SS-51 SS Eccentric Reducer, Fabricated | | | | |
|--|---------------|---------------|--------|-----|
| Normal Pipe Size | Pipe O.D. | E-E Dimension | Weight | |
| In | In | In | Lbs | Kgs |
| mm | mm | mm | | |
| 2½ x 2 | 2.875 x 2.375 | 3.5 | 1.23 | |
| 65 x 50 | 73.0 x 60.3 | 89 | 0.56 | |
| 3 x 2 | 3.500 x 2.375 | 3.5 | 2.49 | |
| 80 x 50 | 88.9 x 60.3 | 89 | 1.13 | |
| 3 x 2½ | 3.500 x 2.875 | 3.5 | 1.96 | |
| 80 x 65 | 88.9 x 73.0 | 89 | 0.89 | |
| 4 x 2½ | 4.500 x 2.875 | 4.0 | 2.64 | |
| 100 x 65 | 114.3 x 73.0 | 102 | 1.20 | |
| 4 x 3 | 4.500 x 3.500 | 4.0 | 2.86 | |
| 100 x 80 | 114.3 x 88.9 | 102 | 1.30 | |
| 5 x 4 | 5.563 x 4.500 | 5.0 | 3.45 | |
| 125 x 100 | 141.3 x 114.3 | 127 | 1.57 | |
| 6 x 4 | 6.625 x 4.500 | 5.5 | 6.95 | |
| 150 x 100 | 168.3 x 114.3 | 140 | 3.16 | |
| 8 x 4 | 8.625 x 4.500 | 6.0 | 12.89 | |
| 200 x 100 | 219.1 x 114.3 | 152 | 5.86 | |
| 8 x 6 | 8.625 x 6.625 | 6.0 | 11.70 | |
| 200 x 150 | 219.1 x 168.3 | 152 | 5.32 | |



MATERIAL SPECIFICATIONS

- Fitting Body:
 - Type 304 Stainless Steel

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.