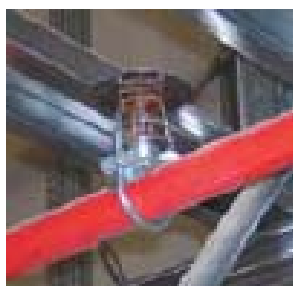
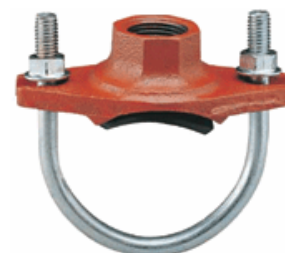




MODEL 723 SADDLE-LET (SMALL MECHANICAL TEE)

The Model 723 “Saddle-Let” small mechanical tee is the ideal outlet fitting for direct connection to sprinkler heads, drop nipples and gauges. No need for welding just cut or drill a hole at the desired outlet location, position the Saddle-Let so that the locating collar fits within the hole and fasten the U-bolt and nuts. The Model 723 Saddle-Let features a full bore flow, a uniquely designed grade “E” gasket and is pressure rated to 20 bar (300 psi). The Saddle-Let is supplied with a standard black finish. Optional finishes such as painted or electro-zinc plated coatings are available.



MODEL 723 MATERIAL SPECIFICATIONS

- **Housing:**

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)

- **Rubber Gasket:**

Grade “E” EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals. **Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C).

- Grade “T” Nitrile (Color code: Orange stripe) (Option) Recommended for petroleum products, vegetable oils, mineral oils and air with oil vapors. Temperature range: -29°C to +82°C (-20°F to +180°F). Also good for water services under +66°C (+150°F).

Do not use for HOT WATER above +66 °C (+150 °F) or HOT DRY AIR above +60 °C (+140 °F)

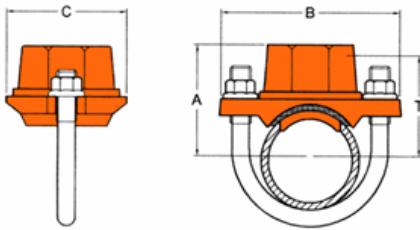
- Other options: Grade “O” Fluoro-Elastomer, Grade “L” Silicone, etc. are also available upon request.

- **U-Bolt & Nuts:**

Plated U-bolt conforming to ASTM A307 with hex nuts to ASTM A563.

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.

MODEL 723 “SADDLE-LET” SMALL MECHANICAL TEE


Model 723 “Saddle-Let” Small Mechanical Tee									
Nominal Size	Hole Dia. +1.6, -0 / +0.063, -0	Dimensions			Take-Out, T	Bolt Size	Bolt Torque	Weight	
		A	B	C					
mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	in	N-m <i>Lb-Ft</i>	Kgs <i>Lbs</i>	
32 x 15 <i>1.25 x 0.5</i>	30 <i>1.18</i>	53.0 <i>2.08</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	35.0 <i>1.38</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
32 x 20 <i>1.25 x 0.75</i>	30 <i>1.18</i>	53.0 <i>2.08</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	35.0 <i>1.38</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
32 x 25 <i>1.25 x 1</i>	30 <i>1.18</i>	56.0 <i>2.20</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	38.0 <i>1.50</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
40 x 15 <i>1.5 x 0.5</i>	30 <i>1.18</i>	55.0 <i>2.16</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	35.0 <i>1.38</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
40 x 20 <i>1.5 x 0.75</i>	30 <i>1.18</i>	55.0 <i>2.16</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	35.0 <i>1.38</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
40 x 25 <i>1.5 x 1</i>	30 <i>1.18</i>	58.0 <i>2.28</i>	89.0 <i>3.50</i>	56.0 <i>2.20</i>	38.0 <i>1.50</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
50 x 15 <i>2 x 0.5</i>	30 <i>1.18</i>	64.0 <i>2.51</i>	98.0 <i>3.85</i>	56.0 <i>2.20</i>	42.0 <i>1.65</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
50 x 20 <i>2 x 0.75</i>	30 <i>1.18</i>	64.0 <i>2.51</i>	98.0 <i>3.85</i>	56.0 <i>2.20</i>	42.0 <i>1.65</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
50 x 25 <i>2 x 1</i>	30 <i>1.18</i>	67.0 <i>2.63</i>	98.0 <i>3.85</i>	56.0 <i>2.20</i>	45.0 <i>1.77</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
65 x 15 <i>2.5 x 0.5</i>	30 <i>1.18</i>	69.0 <i>2.71</i>	111.0 <i>4.37</i>	56.0 <i>2.20</i>	51.0 <i>2.00</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
65 x 20 <i>2.5 x 0.75</i>	30 <i>1.18</i>	69.0 <i>2.71</i>	111.0 <i>4.37</i>	56.0 <i>2.20</i>	51.0 <i>2.00</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.4 <i>0.9</i>	
65 x 25 <i>2.5 x 1</i>	30 <i>1.18</i>	72.0 <i>2.83</i>	111.0 <i>4.37</i>	56.0 <i>2.20</i>	54.0 <i>2.13</i>	3/8 ^Ø <i>U-Bolt</i>	20-30 <i>15-22</i>	0.5 <i>1.1</i>	

Flow Data – C_v Values

Values for flow of water at +60°F (+16°C).

$$C_v = \frac{Q}{\sqrt{\Delta P}}$$

Where: C_v = Flow coefficient
 Q = Flow (GPM)
 ΔP = Pressure drop (psi)

Flow Characteristics

Model 723 “Saddle-Let” Small Mech. Tee C _v Value	
Nominal Size mm / in	C _v Values
15 <i>1/2</i>	10
20 <i>3/4</i>	15
25 <i>1</i>	22

Model 723 “Saddle-Let” Small Mech. Tee Flow Characteristics	
Nominal Size mm / in	Equivalent Length of pipe meter / feet
15 <i>1/2</i>	0.9 <i>3</i>
20 <i>3/4</i>	1.5 <i>5</i>
25 <i>1</i>	2.4 <i>8.0</i>

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.