Pipe Fittings
NPT Threaded, Ductile Iron

General Description
The TYCO Series 800 Threaded Pipe Fittings and California Tees & Elbows are manufactured from ductile iron. They are stronger and more corrosion resistant than cast iron fittings. The additional strength is provided by the ductile properties and by adding magnesium while the iron is being poured into the final cast shape. Although lighter than standard cast iron, the fittings have an added advantage of being less susceptible to cracking due to their added strength.

The Series 800, California, and Figure 719 Threaded Pipe Fittings are a re-designation for the Central Series 800, California, and Figure 719 Threaded Pipe Fittings.

NOTICE
The Threaded Pipe Fittings described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Technical Data
Approvals
UL Listed
FM Approved

Maximum Working Pressure
300 psi (20.7 bar)

Material
Series 800 and California Fittings:
Ductile Iron
Figure 719 Plug:
Cast Iron

Piping Hanger
NPT per ANSI B1.20.1

Installation
Apply TEFLOM tape or high quality pipe joint compound on male pipe threads and tighten two to three turns beyond hand tight.

NOTICE
Installers who have not used ductile iron threaded fittings should be instructed that the fittings are stronger than the pipe and overtightening the fitting can create leaks and cause damage to pipe threads. In general, there is about one-half turn difference between cast iron and ductile iron fittings. Apply TEFLOM tape or high quality pipe joint compound on the male pipe threads and tighten two to three turns beyond hand tight. If an automatic make-on machine is being used, please exercise caution in setting the machine to the proper parameters prior to tightening fittings onto the male pipe threads.

Limited Warranty
For warranty terms and conditions, visit www.tyco-fire.com.

Ordering Procedure
Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).
<table>
<thead>
<tr>
<th>ANSI Inches DN</th>
<th>A Inches (mm)</th>
<th>B Inches (mm)</th>
<th>Approx. Weight Lbs. (kg)</th>
<th>Part Number</th>
<th>A Inches (mm)</th>
<th>B Inches (mm)</th>
<th>Approx. Weight Lbs. (kg)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 15</td>
<td>1.13 (28.7)</td>
<td>0.56 (14.2)</td>
<td>0.24 (0.11)</td>
<td>86206</td>
<td>0.88 (22.4)</td>
<td>0.38 (9.7)</td>
<td>0.22 (0.09)</td>
<td>86780</td>
</tr>
<tr>
<td>3/4 20</td>
<td>1.31 (33.3)</td>
<td>0.75 (19.0)</td>
<td>0.40 (0.18)</td>
<td>86205</td>
<td>1.00 (25.4)</td>
<td>0.44 (11.2)</td>
<td>0.33 (0.15)</td>
<td>86781</td>
</tr>
<tr>
<td>1 25</td>
<td>1.50 (38.1)</td>
<td>0.81 (20.6)</td>
<td>0.64 (0.29)</td>
<td>86200</td>
<td>1.13 (28.7)</td>
<td>0.81 (20.6)</td>
<td>0.48 (0.21)</td>
<td>86280</td>
</tr>
<tr>
<td>1-1/4 32</td>
<td>1.75 (44.5)</td>
<td>1.06 (26.9)</td>
<td>0.95 (0.43)</td>
<td>86201</td>
<td>1.31 (33.3)</td>
<td>0.63 (16.0)</td>
<td>0.73 (0.33)</td>
<td>86281</td>
</tr>
<tr>
<td>1-1/2 40</td>
<td>1.94 (49.5)</td>
<td>1.19 (30.2)</td>
<td>1.24 (0.56)</td>
<td>86202</td>
<td>1.44 (36.6)</td>
<td>0.69 (17.5)</td>
<td>0.93 (0.42)</td>
<td>86282</td>
</tr>
<tr>
<td>2 50</td>
<td>2.25 (57.1)</td>
<td>1.50 (38.1)</td>
<td>1.74 (0.79)</td>
<td>86203</td>
<td>1.68 (42.7)</td>
<td>0.94 (23.9)</td>
<td>1.55 (0.70)</td>
<td>86283</td>
</tr>
<tr>
<td>2-1/2 65</td>
<td>2.69 (68.3)</td>
<td>1.56 (39.6)</td>
<td>3.28 (1.49)</td>
<td>86204</td>
<td>1.94 (49.3)</td>
<td>1.00 (25.4)</td>
<td>2.70 (1.22)</td>
<td>86782</td>
</tr>
</tbody>
</table>

**TABLE A**

**FIGURES 811 & 813**

**NOMINAL DIMENSIONS**
### Nominal Pipe Size

<table>
<thead>
<tr>
<th>ANSI Inches DN</th>
<th>A  (Inches)</th>
<th>B  (Inches)</th>
<th>C  (Inches)</th>
<th>D  (Inches)</th>
<th>Approx. Weight Lbs. (kg)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 x 1/2</td>
<td>1.19 (30,2)</td>
<td>1.19 (30,2)</td>
<td>0.63 (16,0)</td>
<td>0.63 (16,0)</td>
<td>0.33 (0,15)</td>
<td>86342</td>
</tr>
<tr>
<td>25 x 15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 1/2</td>
<td>1.25 (31,8)</td>
<td>1.38 (35,1)</td>
<td>0.56 (14,2)</td>
<td>0.81 (20,6)</td>
<td>0.44 (0,20)</td>
<td>86210</td>
</tr>
<tr>
<td>25 x 20</td>
<td>1.38 (35,1)</td>
<td>1.44 (36,6)</td>
<td>0.69 (17,5)</td>
<td>0.88 (22,4)</td>
<td>0.53 (0,24)</td>
<td>86211</td>
</tr>
<tr>
<td>1 x 3/4</td>
<td>1.31 (33,3)</td>
<td>1.50 (38,1)</td>
<td>0.63 (16,0)</td>
<td>0.94 (23,9)</td>
<td>0.64 (0,29)</td>
<td>86212</td>
</tr>
<tr>
<td>25 x 20</td>
<td>1.44 (36,6)</td>
<td>1.63 (41,4)</td>
<td>0.75 (19,0)</td>
<td>1.06 (26,9)</td>
<td>0.75 (0,34)</td>
<td>86213</td>
</tr>
<tr>
<td>1-1/4 x 1</td>
<td>1.56 (39,6)</td>
<td>1.68 (42,7)</td>
<td>0.88 (22,4)</td>
<td>1.00 (25,4)</td>
<td>0.77 (0,35)</td>
<td>86214</td>
</tr>
<tr>
<td>32 x 25</td>
<td>1.50 (38,1)</td>
<td>1.75 (44,4)</td>
<td>0.75 (19,0)</td>
<td>1.19 (30,2)</td>
<td>0.95 (0,43)</td>
<td>86221</td>
</tr>
<tr>
<td>1-1/2 x 1</td>
<td>1.63 (41,4)</td>
<td>1.81 (46,0)</td>
<td>0.88 (22,4)</td>
<td>1.13 (28,7)</td>
<td>0.99 (0,45)</td>
<td>86215</td>
</tr>
<tr>
<td>40 x 20</td>
<td>1.81 (46,0)</td>
<td>1.88 (47,8)</td>
<td>1.13 (28,7)</td>
<td>1.19 (30,2)</td>
<td>1.14 (0,52)</td>
<td>86216</td>
</tr>
<tr>
<td>1-1/2 x 1-1/4</td>
<td>1.63 (41,4)</td>
<td>1.94 (49,3)</td>
<td>0.88 (22,4)</td>
<td>1.38 (35,1)</td>
<td>1.39 (0,63)</td>
<td>86217</td>
</tr>
<tr>
<td>40 x 32</td>
<td>1.75 (44,4)</td>
<td>2.06 (52,3)</td>
<td>2.00 (50,8)</td>
<td>1.31 (33,3)</td>
<td>1.58 (0,72)</td>
<td>86218</td>
</tr>
<tr>
<td>2 x 3/4</td>
<td>2.00 (50,8)</td>
<td>2.19 (55,6)</td>
<td>1.25 (31,8)</td>
<td>1.44 (36,6)</td>
<td>1.67 (0,76)</td>
<td>86220</td>
</tr>
<tr>
<td>50 x 40</td>
<td>2.38 (60,5)</td>
<td>2.63 (68,8)</td>
<td>1.25 (31,8)</td>
<td>1.88 (47,8)</td>
<td>3.01 (1,36)</td>
<td>86762</td>
</tr>
</tbody>
</table>
### TABLE C

**FIGURE 817**

**NOMINAL DIMENSIONS**

<table>
<thead>
<tr>
<th>ANSI Inches DN</th>
<th>A Inches (mm)</th>
<th>B Inches (mm)</th>
<th>C Inches (mm)</th>
<th>D Inches (mm)</th>
<th>Approx. Weight Lbs. (kg)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 25</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>0.81 (20.6)</td>
<td>0.81 (20.6)</td>
<td>0.97 (0.44)</td>
<td>86284</td>
</tr>
<tr>
<td>1-1/4 32</td>
<td>1.75 (44.4)</td>
<td>1.75 (44.4)</td>
<td>1.06 (26.9)</td>
<td>1.06 (27.0)</td>
<td>1.59 (0.72)</td>
<td>86285</td>
</tr>
<tr>
<td>1-1/2 40</td>
<td>1.94 (49.3)</td>
<td>1.94 (49.3)</td>
<td>1.19 (30.2)</td>
<td>1.19 (30.2)</td>
<td>1.89 (0.86)</td>
<td>86286</td>
</tr>
<tr>
<td>2 50</td>
<td>2.25 (57.1)</td>
<td>2.25 (57.1)</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>2.93 (1.33)</td>
<td>86287</td>
</tr>
<tr>
<td>1-1/4 x 1-1/4 x 1 x 1 32 x 32 x 25 x 25</td>
<td>1.69 (42.9)</td>
<td>1.56 (39.6)</td>
<td>1.00 (25.4)</td>
<td>0.88 (22.4)</td>
<td>1.25 (0.56)</td>
<td>86289</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 1 x 1 40 x 40 x 25 x 25</td>
<td>1.81 (46.0)</td>
<td>1.63 (41.4)</td>
<td>1.06 (26.9)</td>
<td>1.94 (49.3)</td>
<td>1.48 (0.71)</td>
<td>86322</td>
</tr>
<tr>
<td>2 x 2 x 1 x 1 50 x 50 x 25 x 25</td>
<td>2.00 (50.8)</td>
<td>1.75 (44.4)</td>
<td>1.25 (31.8)</td>
<td>1.06 (26.9)</td>
<td>2.64 (1.20)</td>
<td>86291</td>
</tr>
</tbody>
</table>

---

**FIGURE 817 CROSS**
## TABLE D
**FIGURES 814 & 818**
**NOMINAL DIMENSIONS**

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Figure 814</th>
<th></th>
<th></th>
<th></th>
<th>Figure 818</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
<td>B Inches (mm)</td>
<td>Approx. Weight Lbs. (kg)</td>
<td>Part Number</td>
<td>A Inches (mm)</td>
<td>B Inches (mm)</td>
<td>Approx. Weight Lbs. (kg)</td>
<td>Part Number</td>
<td></td>
</tr>
<tr>
<td>1/2 15</td>
<td>1.13 (28.7)</td>
<td>0.56 (14.2)</td>
<td>0.33 (0.15)</td>
<td>86340</td>
<td>1.38 (35.1)</td>
<td>0.31 (7.9)</td>
<td>0.18 (0.08)</td>
<td>72779</td>
<td></td>
</tr>
<tr>
<td>3/4 20</td>
<td>1.31 (33.3)</td>
<td>0.75 (19.0)</td>
<td>0.50 (0.23)</td>
<td>86341</td>
<td>1.63 (41.4)</td>
<td>0.56 (14.0)</td>
<td>0.26 (0.11)</td>
<td>72778</td>
<td></td>
</tr>
<tr>
<td>1 25</td>
<td>1.50 (38.1)</td>
<td>0.81 (20.6)</td>
<td>0.85 (0.38)</td>
<td>86230</td>
<td>1.75 (44.4)</td>
<td>0.38 (9.7)</td>
<td>0.44 (0.20)</td>
<td>72755</td>
<td></td>
</tr>
<tr>
<td>1-1/4 32</td>
<td>1.75 (44.4)</td>
<td>1.06 (26.9)</td>
<td>1.30 (0.59)</td>
<td>86231</td>
<td>2.00 (50.8)</td>
<td>0.56 (14.0)</td>
<td>0.54 (0.24)</td>
<td>72754</td>
<td></td>
</tr>
<tr>
<td>1-1/2 40</td>
<td>1.94 (49.3)</td>
<td>1.19 (30.2)</td>
<td>1.63 (0.74)</td>
<td>86232</td>
<td>2.19 (55.6)</td>
<td>0.75 (19.0)</td>
<td>0.71 (0.32)</td>
<td>72753</td>
<td></td>
</tr>
<tr>
<td>2 50</td>
<td>2.25 (57.1)</td>
<td>1.50 (38.1)</td>
<td>2.63 (1.19)</td>
<td>86233</td>
<td>2.63 (66.8)</td>
<td>1.13 (28.7)</td>
<td>1.15 (0.52)</td>
<td>72752</td>
<td></td>
</tr>
<tr>
<td>2-1/2 65</td>
<td>2.69 (68.3)</td>
<td>1.56 (39.6)</td>
<td>4.55 (2.06)</td>
<td>86234</td>
<td>3.00 (76.2)</td>
<td>0.75 (19.0)</td>
<td>2.29 (1.04)</td>
<td>72758</td>
<td></td>
</tr>
</tbody>
</table>
### TABLE E (1 OF 2)

**FIGURE 815**

**Nominal Dimensions**

<table>
<thead>
<tr>
<th>ANSI Inches DN</th>
<th>A Inches (mm)</th>
<th>B Inches (mm)</th>
<th>C Inches (mm)</th>
<th>D Inches (mm)</th>
<th>E Inches (mm)</th>
<th>F Inches (mm)</th>
<th>Approx. Weight Lbs. (kg)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 x 3/4 x 1/2</td>
<td>1.19 (30.2)</td>
<td>1.19 (30.2)</td>
<td>1.25 (31.8)</td>
<td>0.63 (16.0)</td>
<td>0.63 (16.0)</td>
<td>0.69 (17.5)</td>
<td>0.46 (0.21)</td>
<td>86235</td>
</tr>
<tr>
<td>20 x 20 x 15</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.38 (35.1)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>0.69 (17.5)</td>
<td>0.68 (0.31)</td>
<td>86755</td>
</tr>
<tr>
<td>3/4 x 3/4 x 1/2</td>
<td>1.25 (31.8)</td>
<td>1.25 (31.8)</td>
<td>1.38 (35.1)</td>
<td>0.56 (14.2)</td>
<td>0.63 (16.0)</td>
<td>0.81 (20.6)</td>
<td>0.70 (0.32)</td>
<td>86236</td>
</tr>
<tr>
<td>20 x 30 x 15</td>
<td>1.38 (35.1)</td>
<td>1.38 (35.1)</td>
<td>1.44 (36.6)</td>
<td>0.69 (17.5)</td>
<td>0.75 (19.0)</td>
<td>0.88 (22.4)</td>
<td>0.68 (0.31)</td>
<td>86756</td>
</tr>
<tr>
<td>1 x 1/2 x 1</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>0.81 (20.6)</td>
<td>0.88 (22.4)</td>
<td>0.81 (20.6)</td>
<td>0.77 (0.35)</td>
<td>86237</td>
</tr>
<tr>
<td>25 x 25 x 15</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>0.81 (20.6)</td>
<td>0.88 (22.4)</td>
<td>0.81 (20.6)</td>
<td>0.66 (0.30)</td>
<td>86238</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.25 (31.8)</td>
<td>1.25 (31.8)</td>
<td>1.38 (35.1)</td>
<td>0.56 (14.3)</td>
<td>0.56 (14.3)</td>
<td>0.81 (20.6)</td>
<td>0.73 (0.33)</td>
<td>86239</td>
</tr>
<tr>
<td>25 x 25 x 15</td>
<td>1.38 (35.1)</td>
<td>1.38 (35.1)</td>
<td>1.44 (36.6)</td>
<td>0.69 (17.5)</td>
<td>0.69 (17.5)</td>
<td>0.88 (22.4)</td>
<td>0.97 (0.44)</td>
<td>86240</td>
</tr>
<tr>
<td>1 x 1 x 1 x 1/4</td>
<td>1.69 (42.9)</td>
<td>1.69 (42.9)</td>
<td>1.56 (39.6)</td>
<td>1.00 (25.4)</td>
<td>1.00 (25.4)</td>
<td>0.88 (22.4)</td>
<td>0.97 (0.44)</td>
<td>86240</td>
</tr>
<tr>
<td>25 x 25 x 32</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.69 (42.9)</td>
<td>0.88 (22.4)</td>
<td>0.81 (20.6)</td>
<td>1.00 (25.4)</td>
<td>1.03 (0.47)</td>
<td>86244</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.25 (31.8)</td>
<td>1.25 (31.8)</td>
<td>1.38 (35.1)</td>
<td>0.56 (14.3)</td>
<td>0.56 (14.3)</td>
<td>0.81 (20.6)</td>
<td>1.14 (0.52)</td>
<td>86244</td>
</tr>
<tr>
<td>25 x 25 x 40</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.63 (41.4)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.00 (25.4)</td>
<td>0.81 (0.37)</td>
<td>86242</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.62 (39.6)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.00 (25.4)</td>
<td>0.90 (0.41)</td>
<td>86243</td>
</tr>
<tr>
<td>25 x 25 x 32</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.69 (42.9)</td>
<td>0.88 (22.4)</td>
<td>0.81 (20.6)</td>
<td>1.00 (25.4)</td>
<td>1.03 (0.47)</td>
<td>86244</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.63 (41.4)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.00 (25.4)</td>
<td>1.10 (0.50)</td>
<td>86245</td>
</tr>
<tr>
<td>25 x 25 x 40</td>
<td>1.56 (39.6)</td>
<td>1.56 (39.6)</td>
<td>1.69 (42.9)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>1.00 (25.4)</td>
<td>1.10 (0.50)</td>
<td>86249</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.56 (39.6)</td>
<td>1.56 (39.6)</td>
<td>1.69 (42.9)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>1.00 (25.4)</td>
<td>1.10 (0.50)</td>
<td>86249</td>
</tr>
<tr>
<td>25 x 25 x 32</td>
<td>1.69 (42.9)</td>
<td>1.69 (42.9)</td>
<td>1.75 (45.8)</td>
<td>1.00 (25.4)</td>
<td>1.00 (25.4)</td>
<td>0.88 (22.4)</td>
<td>1.03 (0.47)</td>
<td>86244</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.75 (44.4)</td>
<td>1.75 (44.4)</td>
<td>1.69 (42.9)</td>
<td>1.00 (25.4)</td>
<td>1.00 (25.4)</td>
<td>0.88 (22.4)</td>
<td>1.03 (0.47)</td>
<td>86244</td>
</tr>
<tr>
<td>25 x 25 x 40</td>
<td>1.88 (47.6)</td>
<td>1.88 (47.6)</td>
<td>1.81 (46.0)</td>
<td>1.13 (28.6)</td>
<td>1.3 (30.2)</td>
<td>0.90 (0.41)</td>
<td>1.43 (0.65)</td>
<td>86246</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.88 (47.6)</td>
<td>1.88 (47.6)</td>
<td>1.81 (46.0)</td>
<td>1.13 (28.6)</td>
<td>1.3 (30.2)</td>
<td>0.90 (0.41)</td>
<td>1.43 (0.65)</td>
<td>86246</td>
</tr>
<tr>
<td>25 x 25 x 32</td>
<td>1.94 (49.3)</td>
<td>1.94 (49.3)</td>
<td>1.94 (49.3)</td>
<td>1.19 (30.2)</td>
<td>1.19 (30.2)</td>
<td>1.52 (0.63)</td>
<td>1.52 (0.63)</td>
<td>86256</td>
</tr>
<tr>
<td>1 x 1 x 1/2</td>
<td>1.94 (49.3)</td>
<td>1.94 (49.3)</td>
<td>1.94 (49.3)</td>
<td>1.19 (30.2)</td>
<td>1.19 (30.2)</td>
<td>1.52 (0.63)</td>
<td>1.52 (0.63)</td>
<td>86256</td>
</tr>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
<td>B Inches (mm)</td>
<td>C Inches (mm)</td>
<td>D Inches (mm)</td>
<td>E Inches (mm)</td>
<td>F Inches (mm)</td>
<td>Approx. Weight Lbs. (kg)</td>
<td>Part Number</td>
</tr>
<tr>
<td>----------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>1-1/2 x 1-1/4 x 1/2</td>
<td>1.44 (36.6)</td>
<td>1.31 (33.3)</td>
<td>1.69 (42.9)</td>
<td>0.69 (17.5)</td>
<td>0.63 (16.0)</td>
<td>1.13 (28.7)</td>
<td>1.03 (0.47)</td>
<td>86257</td>
</tr>
<tr>
<td>1-1/2 x 1-1/4 x 3/4</td>
<td>1.50 (38.1)</td>
<td>1.44 (36.6)</td>
<td>1.75 (44.5)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.19 (30.1)</td>
<td>1.10 (0.50)</td>
<td>86258</td>
</tr>
<tr>
<td>1-1/2 x 1-1/4 x 1</td>
<td>1.63 (41.4)</td>
<td>1.56 (39.7)</td>
<td>1.81 (46.0)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>1.13 (28.7)</td>
<td>1.31 (0.59)</td>
<td>86259</td>
</tr>
<tr>
<td>1-1/2 x 1-1/4 x 2</td>
<td>2.19 (55.6)</td>
<td>2.13 (54.1)</td>
<td>2.00 (50.8)</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.25 (31.7)</td>
<td>1.94 (0.88)</td>
<td>86260</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 1/2</td>
<td>1.44 (36.6)</td>
<td>1.44 (36.6)</td>
<td>1.69 (42.9)</td>
<td>0.69 (17.5)</td>
<td>0.69 (17.5)</td>
<td>1.13 (28.7)</td>
<td>1.14 (0.52)</td>
<td>86261</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 3/4</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.75 (44.4)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.19 (30.1)</td>
<td>1.23 (0.56)</td>
<td>86262</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 1</td>
<td>1.63 (41.2)</td>
<td>1.63 (41.2)</td>
<td>1.81 (46.0)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>1.13 (28.7)</td>
<td>1.38 (0.62)</td>
<td>86263</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 1-1/4</td>
<td>1.81 (46.0)</td>
<td>1.81 (46.0)</td>
<td>1.88 (47.6)</td>
<td>1.06 (26.9)</td>
<td>1.06 (26.9)</td>
<td>1.19 (30.1)</td>
<td>1.50 (0.68)</td>
<td>86264</td>
</tr>
<tr>
<td>1-1/2 x 1-1/2 x 3/4</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.75 (44.4)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.13 (28.7)</td>
<td>1.38 (0.62)</td>
<td>86265</td>
</tr>
<tr>
<td>2 x 1 x 2</td>
<td>2.25 (57.2)</td>
<td>2.00 (50.8)</td>
<td>2.25 (57.2)</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.25 (31.7)</td>
<td>2.00 (0.91)</td>
<td>86266</td>
</tr>
<tr>
<td>2 x 1-1/4 x 2</td>
<td>2.25 (57.2)</td>
<td>2.13 (54.1)</td>
<td>2.25 (57.2)</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.50 (31.7)</td>
<td>2.31 (1.05)</td>
<td>86267</td>
</tr>
<tr>
<td>2 x 1-1/2 x 1</td>
<td>1.50 (38.1)</td>
<td>1.44 (36.6)</td>
<td>1.88 (47.8)</td>
<td>0.75 (19.0)</td>
<td>0.69 (17.5)</td>
<td>1.31 (33.3)</td>
<td>1.30 (0.68)</td>
<td>86268</td>
</tr>
<tr>
<td>2 x 1-1/2 x 1-1/2</td>
<td>1.63 (41.4)</td>
<td>1.50 (38.1)</td>
<td>1.94 (49.3)</td>
<td>0.88 (22.4)</td>
<td>0.75 (19.0)</td>
<td>1.38 (35.0)</td>
<td>1.61 (0.73)</td>
<td>86269</td>
</tr>
<tr>
<td>2 x 1-1/2 x 3/4</td>
<td>1.63 (41.4)</td>
<td>1.50 (38.1)</td>
<td>1.94 (49.3)</td>
<td>0.88 (22.4)</td>
<td>0.75 (19.0)</td>
<td>1.38 (35.0)</td>
<td>1.61 (0.73)</td>
<td>86270</td>
</tr>
<tr>
<td>2 x 1-1/2 x 1</td>
<td>1.75 (44.5)</td>
<td>1.63 (41.4)</td>
<td>2.00 (50.8)</td>
<td>1.00 (25.4)</td>
<td>0.88 (22.4)</td>
<td>1.31 (33.3)</td>
<td>1.65 (0.75)</td>
<td>86271</td>
</tr>
<tr>
<td>2 x 1-1/2 x 1-1/2</td>
<td>2.06 (52.4)</td>
<td>1.94 (49.2)</td>
<td>2.19 (55.5)</td>
<td>1.31 (33.3)</td>
<td>1.19 (30.2)</td>
<td>1.44 (36.6)</td>
<td>2.03 (0.92)</td>
<td>86272</td>
</tr>
<tr>
<td>2 x 1-1/2 x 2</td>
<td>2.25 (57.1)</td>
<td>2.19 (54.1)</td>
<td>2.50 (63.5)</td>
<td>1.50 (38.1)</td>
<td>1.44 (36.6)</td>
<td>1.50 (31.7)</td>
<td>2.37 (1.07)</td>
<td>86273</td>
</tr>
<tr>
<td>2 x 2 x 1/2</td>
<td>1.50 (38.1)</td>
<td>1.50 (38.1)</td>
<td>1.88 (47.8)</td>
<td>0.75 (19.0)</td>
<td>0.75 (19.0)</td>
<td>1.31 (33.3)</td>
<td>1.50 (0.68)</td>
<td>86222</td>
</tr>
<tr>
<td>2 x 2 x 3/4</td>
<td>1.63 (41.4)</td>
<td>1.63 (41.4)</td>
<td>1.94 (49.3)</td>
<td>0.88 (22.4)</td>
<td>0.88 (22.4)</td>
<td>1.38 (35.0)</td>
<td>1.67 (0.76)</td>
<td>86223</td>
</tr>
<tr>
<td>2 x 2 x 1</td>
<td>1.75 (44.5)</td>
<td>1.75 (44.5)</td>
<td>2.00 (50.8)</td>
<td>1.00 (25.4)</td>
<td>1.00 (25.4)</td>
<td>1.31 (33.3)</td>
<td>1.91 (0.86)</td>
<td>86224</td>
</tr>
<tr>
<td>2 x 2 x 1-1/4</td>
<td>1.88 (47.8)</td>
<td>1.88 (47.8)</td>
<td>2.13 (54.1)</td>
<td>1.13 (28.7)</td>
<td>1.13 (28.7)</td>
<td>1.44 (36.6)</td>
<td>2.05 (0.93)</td>
<td>86225</td>
</tr>
<tr>
<td>2 x 2 x 1-1/2</td>
<td>2.00 (50.8)</td>
<td>2.00 (50.8)</td>
<td>2.19 (55.6)</td>
<td>1.25 (31.8)</td>
<td>1.25 (31.8)</td>
<td>1.50 (31.8)</td>
<td>2.11 (0.96)</td>
<td>86226</td>
</tr>
<tr>
<td>2 x 2 x 2-1/2</td>
<td>2.63 (66.8)</td>
<td>2.63 (66.8)</td>
<td>2.38 (60.5)</td>
<td>1.75 (44.5)</td>
<td>1.88 (47.8)</td>
<td>1.44 (36.6)</td>
<td>3.67 (1.66)</td>
<td>86227</td>
</tr>
<tr>
<td>2-1/2 x 2 x 3/4</td>
<td>1.75 (44.5)</td>
<td>1.63 (41.4)</td>
<td>2.31 (58.7)</td>
<td>0.63 (15.9)</td>
<td>0.88 (22.4)</td>
<td>1.75 (44.5)</td>
<td>2.22 (1.01)</td>
<td>86274</td>
</tr>
</tbody>
</table>

**TABLE E (2 OF 2)**

**FIGURE 815**

**NOMINAL DIMENSIONS**
### TABLE F

**FIGURES 820, 830 & 719**

**NOMINAL DIMENSIONS**

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Figure 820</th>
<th>Figure 830</th>
<th>Figure 719</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
<td>Approx. Weight Lbs. (kg)</td>
<td>Part Number</td>
</tr>
<tr>
<td>1/2 15</td>
<td>0.88 (22.4)</td>
<td>0.15 (0.06)</td>
<td>72776</td>
</tr>
<tr>
<td>3/4 20</td>
<td>1.00 (25.4)</td>
<td>0.22 (0.10)</td>
<td>72777</td>
</tr>
<tr>
<td>1 25</td>
<td>1.18 (30.0)</td>
<td>0.33 (0.15)</td>
<td>72824</td>
</tr>
<tr>
<td>1-1/4 32</td>
<td>1.31 (33.3)</td>
<td>0.54 (0.24)</td>
<td>72756</td>
</tr>
<tr>
<td>1-1/2 40</td>
<td>1.38 (35.1)</td>
<td>0.68 (0.31)</td>
<td>72822</td>
</tr>
<tr>
<td>2 50</td>
<td>1.50 (38.1)</td>
<td>0.96 (0.43)</td>
<td>72823</td>
</tr>
<tr>
<td>2-1/2 65</td>
<td>1.75 (44.5)</td>
<td>1.80 (0.82)</td>
<td>—</td>
</tr>
</tbody>
</table>

**FIGURE 820**

**CAP**

**FIGURE 830**

**BRASS SEAT UNION**

**FIGURE 719**

**PLUG**
### TABLE G
**FIGURE 825, 827 & 816**
**NOMINAL DIMENSIONS**

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Figure 825 Extension Piece</th>
<th>Figure 827 Hex Bushing</th>
<th>Figure 816 Reducing Coupling</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
<td>Approx. Weight Lbs. (kg)</td>
<td>Part Number</td>
</tr>
<tr>
<td>1/2 x 1/2</td>
<td>15 x 15</td>
<td>1.50 (38,1)</td>
<td>0.20 (0,09)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2 x 1/2</td>
<td>15 x 15</td>
<td>2.00 (50,8)</td>
<td>0.27 (0,12)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 x 3/4</td>
<td>20 x 20</td>
<td>1.50 (38,1)</td>
<td>0.22 (0,10)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 x 3/4</td>
<td>20 x 20</td>
<td>2.00 (50,8)</td>
<td>0.31 (0,14)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4 x 1/2</td>
<td>20 x 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 1/2</td>
<td>25 x 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 x 3/4</td>
<td>25 x 20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/4 x 1</td>
<td>32 x 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2 x 1</td>
<td>40 x 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2 x 1-1/4</td>
<td>40 x 32</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 1</td>
<td>50 x 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 1-1/4</td>
<td>50 x 32</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 1-1/2</td>
<td>50 x 40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A Inches (mm)</th>
<th>Approx. Weight (kg)</th>
<th>B Inches (mm)</th>
<th>Approx. Weight (kg)</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>106</td>
<td>0.22 (0,10)</td>
<td>1.69 (42,9)</td>
<td>0.50 (12,7)</td>
<td>72726</td>
</tr>
<tr>
<td>106</td>
<td>0.18 (0,08)</td>
<td>1.75 (43,2)</td>
<td>0.53 (12,7)</td>
<td>72762</td>
</tr>
<tr>
<td>119</td>
<td>0.31 (0,14)</td>
<td>1.75 (43,2)</td>
<td>0.53 (12,7)</td>
<td>72763</td>
</tr>
<tr>
<td>125</td>
<td>0.53 (0,24)</td>
<td></td>
<td></td>
<td>72757</td>
</tr>
<tr>
<td>125</td>
<td>0.35 (0,10)</td>
<td></td>
<td></td>
<td>72764</td>
</tr>
<tr>
<td>138</td>
<td>0.75 (0,34)</td>
<td></td>
<td></td>
<td>72759</td>
</tr>
<tr>
<td>138</td>
<td>0.69 (0,31)</td>
<td></td>
<td></td>
<td>72761</td>
</tr>
<tr>
<td>138</td>
<td>0.62 (0,28)</td>
<td></td>
<td></td>
<td>72775</td>
</tr>
</tbody>
</table>
FIGURE 832
CALIFORNIA TEES

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Figure 832</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
</tr>
<tr>
<td>1 x 1 1/2 x 1</td>
<td>25 x 15 x 25</td>
</tr>
<tr>
<td>1 x 1 x 1</td>
<td>25 x 25 x 25</td>
</tr>
</tbody>
</table>

TABLE H
FIGURE 832
NOMINAL DIMENSIONS

FIGURE 831
STREET ELBOWS

<table>
<thead>
<tr>
<th>Nominal Pipe Size</th>
<th>Figure 831</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI Inches DN</td>
<td>A Inches (mm)</td>
</tr>
<tr>
<td>1 x 1 1/2</td>
<td>25 x 15</td>
</tr>
<tr>
<td>1 x 1</td>
<td>25 x 25</td>
</tr>
</tbody>
</table>

TABLE J
FIGURE 831
NOMINAL DIMENSIONS