THREE BOLT PIPE CLAMP

Figure 304

The Figure 304 is designed for hot insulated pipe lines up to 750° F. The spacer on the top inner bolt provides uniform space for the connecting eyerod or weldless eyenut. See Figure 91 for higher load ratings. We will also, design to meet special requirements such as special pipe sizes, order Figure 304SP.

Rated Loads are for up to 750° F (399° C).

Material: Carbon Steel.


Ordering: Specify figure number, and pipe size. Also, include any special requirements for Figure 304SP. For Metric applications specify Figure M304 or M304SP.

### FIGURE 304 – THREE BOLT PIPE CLAMP

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MAXIMUM LOAD</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>TAKE OUT</th>
<th>F</th>
<th>H</th>
<th>WEIGHT EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>650° F</td>
<td>343° C</td>
<td>750° F</td>
<td>399° C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1⁄2</td>
<td>950</td>
<td>845</td>
<td>1</td>
<td>5⁄8</td>
<td>2⁄8</td>
<td>2⁄4</td>
<td>1⁄8</td>
<td>3⁄8</td>
</tr>
<tr>
<td>15</td>
<td>4226</td>
<td>3759</td>
<td>25</td>
<td>16</td>
<td>73</td>
<td>57</td>
<td>M10</td>
<td>41</td>
</tr>
<tr>
<td>3⁄4</td>
<td>950</td>
<td>845</td>
<td>1 1⁄2</td>
<td>3⁄8</td>
<td>1 3⁄4</td>
<td>2 1⁄2</td>
<td>3⁄8</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>4226</td>
<td>3759</td>
<td>29</td>
<td>16</td>
<td>83</td>
<td>64</td>
<td>M10</td>
<td>44</td>
</tr>
<tr>
<td>1</td>
<td>950</td>
<td>845</td>
<td>1 1⁄2</td>
<td>3⁄8</td>
<td>3⁄4</td>
<td>1</td>
<td>5⁄8</td>
<td>1 1⁄4</td>
</tr>
<tr>
<td>25</td>
<td>4226</td>
<td>3759</td>
<td>38</td>
<td>16</td>
<td>95</td>
<td>64</td>
<td>M10</td>
<td>54</td>
</tr>
<tr>
<td>1 1⁄4</td>
<td>950</td>
<td>845</td>
<td>1 1⁄2</td>
<td>3⁄8</td>
<td>3⁄4</td>
<td>2 1⁄4</td>
<td>3⁄8</td>
<td>2 1⁄4</td>
</tr>
<tr>
<td>32</td>
<td>4226</td>
<td>3759</td>
<td>38</td>
<td>19</td>
<td>92</td>
<td>73</td>
<td>M10</td>
<td>57</td>
</tr>
<tr>
<td>1 1⁄2</td>
<td>1545</td>
<td>1380</td>
<td>1 1⁄4</td>
<td>1</td>
<td>4⁄8</td>
<td>4⁄8</td>
<td>3⁄8</td>
<td>2</td>
</tr>
<tr>
<td>40</td>
<td>6873</td>
<td>6139</td>
<td>44</td>
<td>25</td>
<td>124</td>
<td>105</td>
<td>M16</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>1545</td>
<td>1380</td>
<td>2 1⁄2</td>
<td>1 3⁄4</td>
<td>5⁄8</td>
<td>5⁄8</td>
<td>3⁄8</td>
<td>2</td>
</tr>
<tr>
<td>50</td>
<td>6873</td>
<td>6139</td>
<td>54</td>
<td>29</td>
<td>149</td>
<td>130</td>
<td>M16</td>
<td>70</td>
</tr>
<tr>
<td>2 1⁄2</td>
<td>1545</td>
<td>1380</td>
<td>2 1⁄2</td>
<td>1 3⁄4</td>
<td>6⁄8</td>
<td>5⁄8</td>
<td>3⁄8</td>
<td>3</td>
</tr>
<tr>
<td>65</td>
<td>6873</td>
<td>6139</td>
<td>57</td>
<td>29</td>
<td>156</td>
<td>137</td>
<td>M16</td>
<td>76</td>
</tr>
<tr>
<td>3</td>
<td>1545</td>
<td>1380</td>
<td>2 1⁄2</td>
<td>1 3⁄4</td>
<td>6⁄8</td>
<td>6</td>
<td>3⁄8</td>
<td>3⁄8</td>
</tr>
<tr>
<td>80</td>
<td>6873</td>
<td>6139</td>
<td>70</td>
<td>29</td>
<td>168</td>
<td>152</td>
<td>M16</td>
<td>89</td>
</tr>
<tr>
<td>4</td>
<td>2500</td>
<td>2230</td>
<td>3⁄8</td>
<td>1</td>
<td>7⁄8</td>
<td>6 1⁄2</td>
<td>3⁄8</td>
<td>4 1⁄2</td>
</tr>
<tr>
<td>100</td>
<td>11121</td>
<td>9920</td>
<td>86</td>
<td>25</td>
<td>194</td>
<td>165</td>
<td>M20</td>
<td>114</td>
</tr>
<tr>
<td>5</td>
<td>2500</td>
<td>2230</td>
<td>4</td>
<td>1 1⁄2</td>
<td>8⁄8</td>
<td>3</td>
<td>1</td>
<td>3⁄8</td>
</tr>
<tr>
<td>125</td>
<td>11121</td>
<td>9920</td>
<td>102</td>
<td>29</td>
<td>206</td>
<td>178</td>
<td>M20</td>
<td>130</td>
</tr>
<tr>
<td>6</td>
<td>2865</td>
<td>2555</td>
<td>4 1⁄4</td>
<td>1 1⁄4</td>
<td>9⁄8</td>
<td>8⁄8</td>
<td>3⁄8</td>
<td>3 1⁄4</td>
</tr>
<tr>
<td>150</td>
<td>12745</td>
<td>11366</td>
<td>121</td>
<td>32</td>
<td>244</td>
<td>210</td>
<td>M20</td>
<td>156</td>
</tr>
<tr>
<td>8</td>
<td>2865</td>
<td>2555</td>
<td>5 1⁄4</td>
<td>1 1⁄4</td>
<td>10⁄8</td>
<td>9⁄8</td>
<td>3⁄8</td>
<td>4</td>
</tr>
<tr>
<td>200</td>
<td>12745</td>
<td>11366</td>
<td>146</td>
<td>32</td>
<td>270</td>
<td>235</td>
<td>M20</td>
<td>181</td>
</tr>
<tr>
<td>10</td>
<td>3240</td>
<td>2890</td>
<td>6⁄8</td>
<td>1 1⁄4</td>
<td>12</td>
<td>10 1⁄2</td>
<td>3⁄8</td>
<td>1</td>
</tr>
<tr>
<td>250</td>
<td>14413</td>
<td>12856</td>
<td>175</td>
<td>32</td>
<td>305</td>
<td>267</td>
<td>M24</td>
<td>210</td>
</tr>
<tr>
<td>12</td>
<td>3240</td>
<td>2890</td>
<td>8⁄8</td>
<td>1 1⁄2</td>
<td>13</td>
<td>11 1⁄2</td>
<td>3⁄8</td>
<td>1</td>
</tr>
<tr>
<td>300</td>
<td>14413</td>
<td>12856</td>
<td>213</td>
<td>38</td>
<td>330</td>
<td>292</td>
<td>M24</td>
<td>251</td>
</tr>
<tr>
<td>14</td>
<td>4300</td>
<td>3835</td>
<td>9⁄8</td>
<td>2</td>
<td>14⁄8</td>
<td>12⁄8</td>
<td>1 1⁄4</td>
<td>10⁄4</td>
</tr>
<tr>
<td>350</td>
<td>19128</td>
<td>17060</td>
<td>232</td>
<td>51</td>
<td>365</td>
<td>324</td>
<td>M30</td>
<td>273</td>
</tr>
<tr>
<td>16</td>
<td>4300</td>
<td>3835</td>
<td>10</td>
<td>15⁄8</td>
<td>14</td>
<td>1 1⁄4</td>
<td>11⁄4</td>
<td>42.89</td>
</tr>
<tr>
<td>400</td>
<td>19128</td>
<td>17060</td>
<td>254</td>
<td>51</td>
<td>397</td>
<td>356</td>
<td>M30</td>
<td>298</td>
</tr>
<tr>
<td>18</td>
<td>4300</td>
<td>3835</td>
<td>11⁄8</td>
<td>2</td>
<td>16 1⁄2</td>
<td>13⁄8</td>
<td>1 1⁄4</td>
<td>13⁄4</td>
</tr>
<tr>
<td>450</td>
<td>19128</td>
<td>17060</td>
<td>295</td>
<td>51</td>
<td>425</td>
<td>384</td>
<td>M30</td>
<td>337</td>
</tr>
<tr>
<td>20</td>
<td>4500</td>
<td>4015</td>
<td>12 1⁄2</td>
<td>2</td>
<td>17 1⁄2</td>
<td>13</td>
<td>1 1⁄4</td>
<td>14</td>
</tr>
<tr>
<td>500</td>
<td>20018</td>
<td>17860</td>
<td>314</td>
<td>51</td>
<td>445</td>
<td>403</td>
<td>M36</td>
<td>356</td>
</tr>
<tr>
<td>24</td>
<td>5490</td>
<td>4900</td>
<td>14 1⁄2</td>
<td>2</td>
<td>19 1⁄2</td>
<td>17</td>
<td>1 1⁄2</td>
<td>16inch</td>
</tr>
<tr>
<td>600</td>
<td>24422</td>
<td>21797</td>
<td>375</td>
<td>51</td>
<td>505</td>
<td>454</td>
<td>M36</td>
<td>416</td>
</tr>
<tr>
<td>30</td>
<td>7500</td>
<td>6690</td>
<td>18 1⁄2</td>
<td>1 1⁄2</td>
<td>26⁄8</td>
<td>23⁄8</td>
<td>1 1⁄4</td>
<td>21</td>
</tr>
<tr>
<td>750</td>
<td>33363</td>
<td>29760</td>
<td>470</td>
<td>38</td>
<td>670</td>
<td>594</td>
<td>M36</td>
<td>533</td>
</tr>
<tr>
<td>36</td>
<td>10500</td>
<td>9360</td>
<td>22 1⁄2</td>
<td>3</td>
<td>32⁄8</td>
<td>28⁄8</td>
<td>1 1⁄4</td>
<td>26</td>
</tr>
<tr>
<td>900</td>
<td>46708</td>
<td>41637</td>
<td>572</td>
<td>76</td>
<td>816</td>
<td>730</td>
<td>M42</td>
<td>660</td>
</tr>
</tbody>
</table>
ALLOY THREE BOLT PIPE CLAMP

Figure 304Z

The Figure 304Z is designed for hot insulated pipelines. The spacer on the top inner bolt provides uniform space for the connecting eyerod or weldless eyenut. See Figure 91Z for higher load ratings.

Temperature range: above 750° F (399° C) to 1050° F (566° C).

Material: Chrome Molybdenum Steel, ASTM A-387 Grade 22.


Finish: Plain.

Ordering: Specify figure number, and pipe size. For Metric applications, specify Fig M304Z.

FIGURE 304Z – ALLOY THREE BOLT PIPE CLAMP

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>MAXIMUM LOAD</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>TAKE OUT E</th>
<th>F</th>
<th>H</th>
<th>WEIGHT EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½</td>
<td>1400 1000 700</td>
<td>1½</td>
<td>1</td>
<td>4½</td>
<td>4½</td>
<td>5½</td>
<td>2½</td>
<td>2.48</td>
</tr>
<tr>
<td>2</td>
<td>1400 1000 700</td>
<td>2½</td>
<td>1</td>
<td>5½</td>
<td>5½</td>
<td>5½</td>
<td>2½</td>
<td>2.70</td>
</tr>
<tr>
<td>2½</td>
<td>1400 1000 700</td>
<td>6½</td>
<td>1</td>
<td>6½</td>
<td>5½</td>
<td>5½</td>
<td>2½</td>
<td>2.76</td>
</tr>
<tr>
<td>3</td>
<td>1400 1000 700</td>
<td>7½</td>
<td>1</td>
<td>6½</td>
<td>5½</td>
<td>5½</td>
<td>2½</td>
<td>2.76</td>
</tr>
<tr>
<td>4</td>
<td>2300 1600 1100</td>
<td>3½</td>
<td>1</td>
<td>7½</td>
<td>6½</td>
<td>4½</td>
<td>7.30</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2300 1600 1100</td>
<td>4½</td>
<td>1</td>
<td>8½</td>
<td>7½</td>
<td>4½</td>
<td>7.96</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2600 1800 1300</td>
<td>5½</td>
<td>1</td>
<td>9½</td>
<td>8½</td>
<td>4½</td>
<td>8.62</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>3000 2100 1500</td>
<td>6½</td>
<td>1</td>
<td>10½</td>
<td>9½</td>
<td>4½</td>
<td>12.26</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3000 2100 1500</td>
<td>7½</td>
<td>1</td>
<td>11½</td>
<td>10½</td>
<td>4½</td>
<td>14.04</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>3400 2400 1700</td>
<td>8½</td>
<td>1</td>
<td>12½</td>
<td>11½</td>
<td>4½</td>
<td>15.82</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3800 2700 1900</td>
<td>9½</td>
<td>1</td>
<td>13½</td>
<td>12½</td>
<td>4½</td>
<td>17.60</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>4200 3000 2100</td>
<td>10½</td>
<td>1</td>
<td>14½</td>
<td>13½</td>
<td>4½</td>
<td>19.38</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4600 3300 2300</td>
<td>11½</td>
<td>1</td>
<td>15½</td>
<td>14½</td>
<td>4½</td>
<td>21.16</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>5000 3600 2500</td>
<td>12½</td>
<td>1</td>
<td>16½</td>
<td>15½</td>
<td>4½</td>
<td>22.94</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>5400 3900 2700</td>
<td>13½</td>
<td>1</td>
<td>17½</td>
<td>16½</td>
<td>4½</td>
<td>24.72</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>5800 4200 2900</td>
<td>14½</td>
<td>1</td>
<td>18½</td>
<td>17½</td>
<td>4½</td>
<td>26.51</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>6200 4500 3100</td>
<td>15½</td>
<td>1</td>
<td>19½</td>
<td>18½</td>
<td>4½</td>
<td>28.29</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS TEMPERATURE LOADS WEIGHT

<table>
<thead>
<tr>
<th>INCHES</th>
<th>FAHRENHEIT</th>
<th>POUNDS</th>
<th>POUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILLIMETERS</td>
<td>CELSIUS</td>
<td>NEWTONS</td>
<td>KILOGRAMS</td>
</tr>
</tbody>
</table>

54