611 PIPE RESTRAINING SYSTEM

MATERIAL SPECIFICATIONS

CASTINGS: Ductile iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

CLAMPING BOLTS SIZES 4"–12": HSLA (High-Strength, Low-Alloy) trackhead bolts per ASTM A 588 Grade A. Material composition meets AWWA C111.

CLAMPING BOLTS SIZES 8"–12": Grade 8 (medium carbon alloy steel) heavy hex bolts per SAE J429.

CLAMPING BOLTS AND HEX NUTS SIZES 14"–36": Grade 5 (medium carbon steel) hex bolts per SAE J429. Zinc plated to B633 Type III Sch.1 for corrosion resistance.

RESTRAINING RODS AND NUTS SIZES 4"–36": HSLA (High-Strength, Low-Alloy) stud bolts per ASTM A 588 Grade A. Material composition meets AWWA C111.

CLAMPING AND RESTRAINING NUTS: HSLA (High-Strength, Low-Alloy) heavy hex nuts per ASTM A 588 Grade A. Material composition meets AWWA C111. Dimensions follow ANSI B 18.2.2.

COATING 4"–12": Color coded shop coat. Black for ductile iron and C900 sizes, Red for IPS size PVC.

COATING 14"–36": Red for C905 PVC only.

NOTE: Stainless steel bolts and rods are available upon request, please provide maximum pressure.

STYLE 611

for Bell & Spigot Joints, Romac Couplings and Transitions

<table>
<thead>
<tr>
<th>NOM. PIPE SIZE</th>
<th>PIPE MATERIAL</th>
<th>PIPE O.D.</th>
<th>CATALOG NUMBER</th>
<th>CLAMPING BOLTS(^1) QTY: SIZE</th>
<th>RESTRAINING RODS QTY: SIZE</th>
<th>APPROX. WEIGHT (lbs.)</th>
<th>LIST PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>IPS size PVC</td>
<td>4.50</td>
<td>611 - 4.50</td>
<td>4: (\frac{3}{8})&quot; x 4&quot;</td>
<td>2: (\frac{3}{4})&quot; x 18&quot;</td>
<td>20 #</td>
<td>$70.36</td>
</tr>
<tr>
<td>6&quot;</td>
<td>IPS size PVC</td>
<td>4.80</td>
<td>611 - 4.80</td>
<td>4: (\frac{3}{8})&quot; x 4&quot;</td>
<td>2: (\frac{3}{4})&quot; x 20&quot;</td>
<td>22 #</td>
<td>93.29</td>
</tr>
<tr>
<td>8&quot;</td>
<td>IPS size PVC</td>
<td>6.63</td>
<td>611 - 6.63</td>
<td>4: (\frac{3}{8})&quot; x 4&quot;</td>
<td>2: (\frac{3}{4})&quot; x 20&quot;</td>
<td>40 #</td>
<td>151.17</td>
</tr>
<tr>
<td>10&quot;</td>
<td>IPS size PVC</td>
<td>6.90</td>
<td>611 - 6.90</td>
<td>4: (\frac{3}{8})&quot; x 4&quot;</td>
<td>2: (\frac{3}{4})&quot; x 22&quot;</td>
<td>50 #</td>
<td>263.52</td>
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<td>12&quot;</td>
<td>IPS size PVC</td>
<td>9.05</td>
<td>611 - 9.05</td>
<td>4: (\frac{3}{8})&quot; x 4&quot;</td>
<td>2: (\frac{3}{4})&quot; x 22&quot;</td>
<td>60 #</td>
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<tr>
<td>14(^{\frac{3}{4}})&quot;</td>
<td>C905</td>
<td>10.75</td>
<td>11.10</td>
<td>4: (\frac{3}{8})&quot; x 5&quot;</td>
<td>2: (\frac{3}{4})&quot; x 22&quot;</td>
<td>70 #</td>
<td>570.00</td>
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<tr>
<td>16(^{\frac{1}{2}})&quot;</td>
<td>C905</td>
<td>11.10</td>
<td>11.10</td>
<td>8: (\frac{3}{8})&quot; x 6 (\frac{1}{4})&quot;</td>
<td>6: (\frac{3}{4})&quot; x 30&quot;</td>
<td>105 #</td>
<td>605.00</td>
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<tr>
<td>18(^{\frac{1}{4}})&quot;</td>
<td>C905</td>
<td>12.75</td>
<td>12.75</td>
<td>8: (\frac{3}{8})&quot; x 6 (\frac{1}{4})&quot;</td>
<td>6: (\frac{3}{4})&quot; x 30&quot;</td>
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<td>13.20</td>
<td>13.20</td>
<td>8: (\frac{3}{8})&quot; x 6 (\frac{1}{4})&quot;</td>
<td>6: (\frac{3}{4})&quot; x 30&quot;</td>
<td>165 #</td>
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<td>24(^{\frac{1}{2}})&quot;</td>
<td>C905</td>
<td>15.30</td>
<td>15.30</td>
<td>8: (\frac{3}{8})&quot; x 6 (\frac{1}{4})&quot;</td>
<td>8: (\frac{3}{4})&quot; x 30&quot;</td>
<td>235 #</td>
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<tr>
<td>30(^{\frac{1}{2}})&quot;</td>
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<td>17.40</td>
<td>17.40</td>
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<td>12: 1&quot; x 40&quot;</td>
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</tbody>
</table>

\(^1\) Per pair of castings

\(^2\) Imported

TO ORDER: Specify catalog number.

EXAMPLE: For a 6" DI or C-900 Bell & Spigot Joint, order STYLE 611 - 6.90
612 PIPE RESTRAINING SYSTEM

MATERIAL SPECIFICATIONS

CASTINGS: Ductile iron, meeting or exceeding ASTM A 536, Grade 65-45-12.

CLAMPING BOLTS FOR SIZES 4" - 12": High Strength Low Alloy Steel per AWWA C111. Nuts are ANSI B 18.2.2.

CLAMPING BOLTS AND HEX NUTS FOR SIZES 14" - 36": High strength steel in accordance with ASTM A449 and zinc plated to B633, Type III Sc.1 for corrosion resistance.

T-BOLTS AND NUTS FOR SIZES 4" - 12": High strength, low alloy steel per AWWA C111.

T-BOLTS AND NUTS FOR SIZES 14" - 36": high strength, low alloy steel in accordance with AWWA/ANSI C111/A21.11 and provide a minimum 45,000 psi yield and 60,000 psi tensile strength.

COATING 4" - 12": Color coded shop coat. Black for ductile iron and C900 sizes, Red for IPS size PVC.

COATING 14" - 36": Red for C905 PVC only.

STYLE 612
for Mechanical Joints & Push-On Fittings with Restraint Ears.

<table>
<thead>
<tr>
<th>NOM. PIPE SIZE</th>
<th>PIPE MATERIAL</th>
<th>PIPE O.D.</th>
<th>CATALOG NUMBER</th>
<th>CLAMPING BOLTS QTY: SIZE</th>
<th>RESTRAINING RODS QTY: SIZE</th>
<th>APPROX. WEIGHT (lbs.)</th>
<th>LIST PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>IPS size PVC</td>
<td>4.50</td>
<td>612 - 4.50</td>
<td>2: 1/8&quot; x 4&quot;</td>
<td>2: 3/4&quot; x 7&quot;</td>
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<td>DI, C-900</td>
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<td>612 - 4.80</td>
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<td>6&quot;</td>
<td>IPS size PVC</td>
<td>6.63</td>
<td>612 - 6.63</td>
<td>2: 1/8&quot; x 4&quot;</td>
<td>2: 3/4&quot; x 7&quot;</td>
<td>15 #</td>
<td>60.50</td>
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<tr>
<td></td>
<td>DI, C-900</td>
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<td>612 - 6.90</td>
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<tr>
<td>8&quot;</td>
<td>IPS size PVC</td>
<td>8.63</td>
<td>612 - 8.63</td>
<td>2: 7/8&quot; x 5&quot;</td>
<td>2: 3/4&quot; x 7&quot;</td>
<td>25 #</td>
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<td>DI, C-900</td>
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<td>612 - 9.05</td>
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<tr>
<td>10&quot;</td>
<td>IPS size PVC</td>
<td>10.75</td>
<td>612 - 10.75</td>
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<td>4: 3/4&quot; x 7&quot;</td>
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<td>612 - 11.10</td>
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<tr>
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<td>612 - 12.75</td>
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<td>612 - 13.20</td>
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<tr>
<td>14&quot;</td>
<td>C905</td>
<td>15.30</td>
<td>612 - 15.30</td>
<td>4: 1/8&quot; x 6 1/2&quot;</td>
<td>6: 3/4&quot; x 17&quot;</td>
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<td>16&quot;</td>
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<td>17.40</td>
<td>612 - 17.40</td>
<td>4: 1/8&quot; x 6 1/2&quot;</td>
<td>6: 3/4&quot; x 17&quot;</td>
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<tr>
<td>18&quot;</td>
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<td>19.50</td>
<td>612 - 19.50</td>
<td>4: 1&quot; x 6 1/4&quot;</td>
<td>8: 3/4&quot; x 17&quot;</td>
<td>86 #</td>
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<tr>
<td>20&quot;</td>
<td>C905</td>
<td>21.60</td>
<td>612 - 21.60</td>
<td>4: 1 1/4&quot; x 6 1/2&quot;</td>
<td>8: 3/4&quot; x 24&quot;</td>
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<tr>
<td>24&quot;</td>
<td>C905</td>
<td>25.80</td>
<td>612 - 25.80</td>
<td>4: 1 1/4&quot; x 6 1/2&quot;</td>
<td>10: 3/4&quot; x 24&quot;</td>
<td>151 #</td>
<td>780.00</td>
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<td>30&quot;</td>
<td>C905</td>
<td>32.00</td>
<td>612 - 32.00</td>
<td>4: 1 1/4&quot; x 8 1/2&quot;</td>
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<td>38.30</td>
<td>612 - 38.30</td>
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<td>10: 1&quot; x 24&quot;</td>
<td>269 #</td>
<td>1,550.00</td>
</tr>
</tbody>
</table>

1 Imported

Not for use on polyethylene pipe, C909, plain end mechanical joint fittings, steel pipe or ductile iron pipe larger than 12 inches.

TO ORDER: Specify catalog number.
EXAMPLE: For a 6" DI or C-900 MJ fitting, order Style 612 - 6.90

JULY 01, 2017