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<td>Assembly Equipment, Miscellaneous Products &amp; Services</td>
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<td>Technical &amp; General Information</td>
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Ground joint fittings are designed for high pressure air or water (ie. up to 500 psi) as well as steam (steam maximum 250 psi @ 450°F max) in plants, refineries, construction sites, or drilling applications (pressure ratings are for a guide ONLY as they vary based on service conditions, temperatures, etc.). Ground Joints are NOT for use with toxic fluids or flammable gases. The "Boss" brand features a unique, patented, nonmetallic polymer seal which is not subject to corrosion and offers resistance to chemicals and steam. Traditional ground joint fittings had a metal to metal seat, but the new polymer seat permits years of maintenance free service and will seal much easier in the field. The polymer seat will also minimize the loss of air or steam in your system, which provides more efficiency of equipment. Our "Boss" brand is manufactured domestically to strict tolerances for a consistent, reliable, and safe connection (for liability reasons, do not interchange Boss with unbranded products). We highly recommend the Boss Ground Joints due to the ease of use as well as the critical nature when using compressed air or steam, but we also offer an unbranded ground joint with a copper seal for less critical applications or for export. Interlocking bolt clamps MUST be checked and retightened before EACH use due to the cold flow/setting characteristics of rubber hose!

Female Stem Only

These fittings are to be installed by a fully trained assembler and are designed to be used with interlocking bolt clamps.

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*Use R as prefix for 316 stainless steel and B for brass.

Wingnut For Female Stem

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*Use R as prefix for 316 stainless steel and B for brass.
"BOSS" GROUND JOINTS W/ POLYMER SEAL

Black Non-metalic Polymer Seal on 'BOSS' Brand Ground Joints are...

- Corrosion Resistant
- Easy to seal

- Resistant to chemicals and steam

Male NPT Hose Stem

These fittings are to be installed by a **fully trained assembler**, and are designed to be used with interlocking bolt clamps.

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**Unbranded**

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*Use R as prefix for 316 stainless steel & B for brass.

**Female Spud (Female NPT x Ground Joint)**

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*Use R as prefix for 316 stainless steel and B for brass.

**Male Spud (Male NPT x Ground Joint)**

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**Unbranded (Copper Seal)**

<table>
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<th>Bulk Pkg</th>
</tr>
</thead>
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<td>18.88</td>
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<tr>
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<td>29.87</td>
<td>27.15</td>
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*Use R as prefix for 316 stainless steel and B for brass.

**Double Spud (Ground Joint Union)**

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<th>Bulk Pkg</th>
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<td>91.83</td>
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<td>GDB-33</td>
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<td>GDB-38</td>
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**Unbranded (Copper Seal)**

<table>
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<th>Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pkg</th>
</tr>
</thead>
<tbody>
<tr>
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<td>N27-050</td>
<td>N</td>
<td>$22.85</td>
<td>$20.77</td>
<td>5</td>
</tr>
<tr>
<td>3/4 &amp; 1</td>
<td>N27-075/100</td>
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<td>30.51</td>
<td>27.73</td>
<td>5</td>
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<tr>
<td>1-1/4 &amp; 1-1/2</td>
<td>N27-125/150</td>
<td>C</td>
<td>36.89</td>
<td>33.53</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>N27-200</td>
<td>A</td>
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<td>39.90</td>
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</tr>
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<td>3</td>
<td>N27-300</td>
<td>C</td>
<td>93.64</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

*Use R as prefix for 316 stainless steel and B for brass.

© 2015 New-Line Hose & Fittings
These are plated malleable iron clamps designed specifically for use with collared hose stems on air or steam hose. When properly installed, the gripping fingers on these clamps engage over the collar of the stem to prevent coupling blow-out. Our "Boss" clamps are domestically produced and manufactured to strict tolerances to ensure a consistent, reliable, and safe product (Do not interchange Boss with unbranded products). Interlocking bolt clamps MUST be checked and retightened before EACH use due to the cold flow/setting characteristics of rubber hose!

These clamps should be installed only by a fully trained assembler; failure to install these clamps correctly could result in serious harm or damage. When using these clamps, make sure they are re-torqued at regular intervals as it is not unusual for the clamps to loosen during service. Since these clamps are made of "malleable" iron, they are not designed to bend back and forth; therefore they are not to be re-used once installed (likewise with the bolts). Always tighten bolts to recommended torque ratings (do not lubricate nuts and bolts) and check them regularly in service.

**WARNING**

1. The proper size bolt clamp must be determined by cross referencing the hose O.D. to the clamp range.
2. The bolts are designed to bend when tightened in order to allow the clamp to conform to the hose outside diameter.
3. Always tighten bolts to their specified torque value (listed above).
4. Periodic re-tightening of bolts is required due to "cold flow" which is present in all rubber hoses.

**WARNING:** Bolt clamps are for single use. Once removed they are to be discarded.

---

### Boss Interlocking Clamp

<table>
<thead>
<tr>
<th>Size*</th>
<th>Part #</th>
<th>Torque Rating</th>
<th>Stk</th>
<th>O.D.</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
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</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>CD</td>
<td>6 ft/lbs</td>
<td>A</td>
<td>0.69-0.88&quot;</td>
<td>$14.91</td>
<td>$13.55</td>
<td>5</td>
</tr>
<tr>
<td>1/2</td>
<td>DD</td>
<td>6</td>
<td>C</td>
<td>0.81-0.94</td>
<td>13.99</td>
<td>12.71</td>
<td>5</td>
</tr>
<tr>
<td>1/2</td>
<td>B-4</td>
<td>12</td>
<td>B</td>
<td>0.94-1.06</td>
<td>12.79</td>
<td>11.62</td>
<td>5</td>
</tr>
<tr>
<td>3/4</td>
<td>BU-9</td>
<td>21</td>
<td>A</td>
<td>1.19-1.31</td>
<td>15.65</td>
<td>14.22</td>
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<tr>
<td>3/4</td>
<td>B-9</td>
<td>21</td>
<td>C</td>
<td>1.31-1.50</td>
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*Other sizes are available. For stainless use R as a prefix.

### Unbranded Interlocking Bolt Clamps

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<thead>
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<th>Stk</th>
<th>O.D.</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>N29-038</td>
<td>6 ft/lbs</td>
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<td>0.69-0.88&quot;</td>
<td>$7.33</td>
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<td>5</td>
</tr>
<tr>
<td>1/2</td>
<td>N29-050</td>
<td>6</td>
<td>N</td>
<td>0.81-0.94</td>
<td>7.04</td>
<td>6.40</td>
<td>5</td>
</tr>
<tr>
<td>1/2</td>
<td>N29-051</td>
<td>12</td>
<td>N</td>
<td>0.94-1.06</td>
<td>6.66</td>
<td>6.05</td>
<td>5</td>
</tr>
<tr>
<td>3/4</td>
<td>N29-076</td>
<td>21</td>
<td>C</td>
<td>1.19-1.31</td>
<td>8.66</td>
<td>7.87</td>
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<td>3/4</td>
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<td>C</td>
<td>1.31-1.50</td>
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<td>10.22</td>
<td>5</td>
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</tbody>
</table>

*Other sizes are available (also see our Dixon 'Boss' for other sizes).
### Viton Seal Ground Joint Couplings

Some users prefer this brand of ground joints as the unique Viton O-ring seal eliminates air or steam leaks when hand tightened (the stems are interchangeable with traditional Ground Joint Couplings, including spuds with copper or polymer seats). The O-ring passes 1,000 hour MIL-H-29210 steam test and is protected within a groove on the face of the machined stem (the spud does not require a plastic polymer or copper seat).

#### Viton Seal Ground Joint Wingnut

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>GN-2</td>
<td>$9.07</td>
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</tr>
<tr>
<td>3/4 &amp; 1</td>
<td>GN-3</td>
<td>$13.59</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1-1/4 &amp; 1-1/2</td>
<td>GN-5</td>
<td>$20.81</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>GN-8</td>
<td>$25.46</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2-1/2</td>
<td>GN-10</td>
<td>$30.93</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>GN-12</td>
<td>$86.02</td>
<td>1</td>
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</tr>
<tr>
<td>4</td>
<td>GN-16</td>
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#### Viton Seal Ground Joint Low Profile Nut

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<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
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<td>RGN-2</td>
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<td>5</td>
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<tr>
<td>3/4 &amp; 1</td>
<td>RGN-3</td>
<td>$13.59</td>
<td>$12.35</td>
<td>5</td>
</tr>
<tr>
<td>1-1/4 &amp; 1-1/2</td>
<td>RGN-5</td>
<td>$20.81</td>
<td>$18.91</td>
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<tr>
<td>2</td>
<td>RGN-8</td>
<td>$25.46</td>
<td>$21.14</td>
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<td>$78.19</td>
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<td>RGN-16</td>
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<th>Std Price</th>
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<th>Pkg</th>
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<tr>
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<td>GFS-16 N</td>
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<tr>
<td>1-1/2</td>
<td>GMS-6 N</td>
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<td>GMS-8 C</td>
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<td>77.84</td>
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<td>2-1/2</td>
<td>GMS-10 N</td>
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<th>Pkg</th>
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</thead>
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<td>1-1/4 &amp; 1-1/2</td>
<td>GDS-5 N</td>
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<td>GDS-8 N</td>
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<td>92.88</td>
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<tr>
<td>2-1/2</td>
<td>GDS-10 N</td>
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<td>190.47</td>
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<td>1</td>
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<td>GDS-12 N</td>
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### Replacement Viton O-Ring Seal For Stem

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<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
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<tr>
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<td>2.22</td>
<td>2.01</td>
<td>5</td>
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<tr>
<td>1-1/4 &amp; 1-1/2</td>
<td>VO-5 N</td>
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<td>3.57</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>VO-8 C</td>
<td></td>
<td>5.26</td>
<td>4.78</td>
<td>5</td>
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<tr>
<td>2-1/2</td>
<td>VO-10 N</td>
<td></td>
<td>7.02</td>
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<td>1</td>
</tr>
<tr>
<td>3</td>
<td>VO-12 N</td>
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</tr>
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<td>VO-16 N</td>
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### U-Bolt Hose Clamps For Viton Seal Ground Joints

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<th>Torque Rating</th>
<th>Hose O.D.</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
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</thead>
<tbody>
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<td></td>
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<tr>
<td>3/4 IC-3S</td>
<td>25 C</td>
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<td>C 1.08-1.38</td>
<td>17.75</td>
<td>16.13</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>3/4 IC-3</td>
<td>25 C</td>
<td></td>
<td>C 1.08-1.38</td>
<td>17.75</td>
<td>16.13</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### Crimp-On Ground Joints

These fittings are to be installed by a fully trained assembler, and are engineered for use with specific hose brands and part numbers only. Factory authorized assembly only.

<table>
<thead>
<tr>
<th>*Size</th>
<th>Part Number</th>
<th>Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
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<td>3/4&quot;</td>
<td>GJS-3V C</td>
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<td>GJS-4V C</td>
<td></td>
<td>80.99</td>
<td>72.90</td>
<td>5</td>
</tr>
</tbody>
</table>

### Male NPT Stem

<table>
<thead>
<tr>
<th>*Size</th>
<th>Part Number</th>
<th>Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>IMS-3V (solid) C</td>
<td></td>
<td>$41.56</td>
<td>$37.78</td>
<td>5</td>
</tr>
<tr>
<td>1</td>
<td>IMS-4V (solid) C</td>
<td></td>
<td>49.88</td>
<td>45.34</td>
<td>5</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>IMS-3VSW (swivel) C</td>
<td></td>
<td>81.28</td>
<td>73.89</td>
<td>5</td>
</tr>
</tbody>
</table>

*Factory authorized assembly only - for use with specific brands and part numbers only.

---

**Warning:** Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.

**Industry Flows Through Us:**
- A = Very Common Item - Good Stock
- B = Common Item - Moderate Stock
- C = Less Common Item
- P = Production
- N = Check for availability
Double lock couplings, commonly known as Thors or Nationals, are used primarily on air or water hose where "traditional" Quick Connects or Universals are not suitable, and a heavier duty, safer, more durable coupling is needed. These fittings are suitable for 300psi and will permit full flow when coupled and are designed to safely handle greater pressures than universal quick acting couplings. They also have a streamlined design to prevent hang-ups, and the heads can be easily gripped with or without the use of gloves. The "double lock" feature provides maximum safety against unintentional disconnection; users must pull the sleeve back while simultaneously rotating the disconnected without removing the spring. We offer a standard barbed hose end as well as a "crimped" hose end for added safety against coupling blow out.

**Hose End**

<table>
<thead>
<tr>
<th>Hose Size</th>
<th>Number</th>
<th>Material</th>
<th>Std Stk Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4</td>
<td>HS6</td>
<td>Plated Steel</td>
<td>C $35.70</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>HS8</td>
<td>Plated Steel</td>
<td>A 33.95</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>HS12</td>
<td>Plated Steel</td>
<td>A 35.33</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>HS16</td>
<td>Plated Steel</td>
<td>B 53.10</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>HB12</td>
<td>Brass</td>
<td>C 88.46</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>HSS12</td>
<td>Stainless Steel</td>
<td>N 344.91</td>
<td>1</td>
</tr>
<tr>
<td>3/4*</td>
<td>TLH-3</td>
<td>Plated Steel</td>
<td>C 49.13</td>
<td>1</td>
</tr>
</tbody>
</table>

*Available with crimp on ferrule upon special request.

**Male NPT Adapter**

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>Material</th>
<th>Std Stk Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>MS6</td>
<td>Plated Steel</td>
<td>C $20.74</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>MS8</td>
<td>Plated Steel</td>
<td>B 19.00</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>MS12</td>
<td>Plated Steel</td>
<td>B 19.94</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>MS16</td>
<td>Plated Steel</td>
<td>C 23.55</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>MB8</td>
<td>Brass</td>
<td>N 62.78</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>MB12</td>
<td>Brass</td>
<td>N 67.90</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>MSS12</td>
<td>Stainless Steel</td>
<td>N 148.87</td>
<td>1</td>
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</tbody>
</table>

**Female NPT Adapter**

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>Material</th>
<th>Std Stk Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8</td>
<td>FS6</td>
<td>Plated Steel</td>
<td>C $23.55</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>FS8</td>
<td>Plated Steel</td>
<td>C 26.42</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>FS12</td>
<td>Plated Steel</td>
<td>C 25.57</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>FS16</td>
<td>Plated Steel</td>
<td>C 27.74</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>FB8</td>
<td>Brass</td>
<td>N 67.23</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>FB12</td>
<td>Brass</td>
<td>C 65.51</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>FSS12</td>
<td>Stainless Steel</td>
<td>N 148.87</td>
<td>1</td>
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</table>

**Gaskets & Safety Clips**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Material</th>
<th>Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>G-100</td>
<td>Buna-N</td>
<td>A</td>
<td>$6.23</td>
<td>$4.15</td>
<td>50</td>
</tr>
<tr>
<td>All</td>
<td>G-200</td>
<td>Viton</td>
<td>C</td>
<td>14.97</td>
<td>9.98</td>
<td>50</td>
</tr>
<tr>
<td>Reg</td>
<td>203-W (Clip)</td>
<td>Clip</td>
<td>C</td>
<td>3.36</td>
<td>2.24</td>
<td>50</td>
</tr>
<tr>
<td>For LS 200-S (Clip)</td>
<td>Clip</td>
<td>C</td>
<td>5.46</td>
<td>3.64</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**WorkSafe™**

Section 12.15 Restraining devices

Effective means of restraint must be used

(a) on a connection of a hose or a pipe if inadvertent disconnection could be dangerous to a worker,

(b) if unplanned movement of an object or component could endanger a worker, or

(c) to secure an object from falling and endangering a worker.
Series B Twist-Lock Quick Acting Couplings, also known as Bowes Interchange or Dix-Lock QM Style Interchange, are used primarily on air or water hose up to 300psi (do not disconnect while under pressure). They are made of plated steel (available in stainless steel and brass on special request, use SS- or B- as a prefix) and the gasket is resistant to heat and oil. When coupled, they permit full flow, and the lock nut on the male head (-LN series) will prevent any disconnection when they are threaded up to the sleeve. Furthermore, the 200-S lock key can be installed for even further protection.

### Hose End - Male Head

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BMH6</td>
<td>N</td>
<td>$26.01</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BMH8</td>
<td>C</td>
<td>26.57</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BMH12</td>
<td>C</td>
<td>26.57</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BMH16</td>
<td>C</td>
<td>29.86</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BMH8-LN (locknut)</td>
<td>B</td>
<td>35.84</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BMH12-LN (locknut)</td>
<td>B</td>
<td>35.85</td>
<td>1</td>
</tr>
</tbody>
</table>

*Available with crimp on ferrule upon special request.

### Hose End - Female Head

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BFH6</td>
<td>N</td>
<td>$26.01</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BFH8</td>
<td>C</td>
<td>22.06</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BFH12</td>
<td>C</td>
<td>22.06</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BFH16</td>
<td>C</td>
<td>24.12</td>
<td>1</td>
</tr>
</tbody>
</table>

### Male Head x Male NPT

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BMM6</td>
<td>N</td>
<td>$27.30</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BMM8</td>
<td>C</td>
<td>27.30</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BMM12</td>
<td>C</td>
<td>27.30</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BMM16</td>
<td>C</td>
<td>38.42</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BMM8-LN (locknut)</td>
<td>B</td>
<td>35.84</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BMM12-LN (locknut)</td>
<td>B</td>
<td>35.84</td>
<td>1</td>
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</tbody>
</table>

### Female Head x Male NPT

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BFM6</td>
<td>N</td>
<td>$22.06</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BFM8</td>
<td>C</td>
<td>21.93</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BFM12</td>
<td>C</td>
<td>22.06</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BFM16</td>
<td>C</td>
<td>38.42</td>
<td>1</td>
</tr>
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</table>

### Male Head x Female NPT

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BMF6</td>
<td>N</td>
<td>$26.57</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BMF8</td>
<td>N</td>
<td>26.57</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BMF12</td>
<td>N</td>
<td>26.57</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BMF16</td>
<td>N</td>
<td>29.86</td>
<td>1</td>
</tr>
</tbody>
</table>

### Female Head x Female NPT

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>BFF6</td>
<td>N</td>
<td>$22.06</td>
<td>1</td>
</tr>
<tr>
<td>1/2</td>
<td>BFF8</td>
<td>C</td>
<td>22.06</td>
<td>1</td>
</tr>
<tr>
<td>3/4</td>
<td>BFF12</td>
<td>C</td>
<td>22.06</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>BFF16</td>
<td>C</td>
<td>29.86</td>
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</table>

### Joiner

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Price/ea</th>
<th>Std Pkg</th>
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<tr>
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### Gaskets & Safety Clip

<table>
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<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Bulk Price</th>
<th>Bulk Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
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<td>C</td>
<td>$3.65</td>
<td>50</td>
</tr>
<tr>
<td>All</td>
<td>200-S (Safety Clip)</td>
<td>C</td>
<td>5.46</td>
<td>50</td>
</tr>
</tbody>
</table>
Universal Fittings (also known as CP, Claw or Crowfoot couplings) are quick acting couplings that are used for low-pressure air or water applications up to 110 psi, such as on hoses leading to jackhammers (do not disconnect while under pressure). These couplings are not suitable for steam service, and it is recommended that safety clips are always used to prevent accidental disconnection from vibration or twisting. All locking heads are of one size, regardless of the hose or pipe size. Our N30 series are unbranded, competitively priced universal ends while our N3xD line and AM-Air Kings are domestic lines that are manufactured to stricter tolerances. For British pipe threaded (BSP) applications, we also offer N32BP/N33BP/N34BP European Plated Clawfoot ends (they do not interchange with the standard North American Style Universals). Universal’s are also available in Auto-Locking on request. Note: We DO NOT recommend crimphoses sleeves on 1-1/4”-2” 4-lug cast iron Universals, the cast barb design is not compatible with modern crimping technology, 1-1/4”-2” 4-lug Universals should not be used in critical applications, it is a relatively poor and unsafe design for proper coupling integrity – especially if used in applications subject to pressure and/or temperature. It is recommended that Dixon Boss or Campbell Viton Seal Ground Joint Universals or Stainless Steel couplings and clamps in larger diameter air hoses.

### Hose End

<table>
<thead>
<tr>
<th>Hose Size</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>1/2</td>
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<td>$4.66</td>
<td>$4.23</td>
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### Female NPT End

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
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</thead>
<tbody>
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</tr>
<tr>
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<td>N34-050</td>
<td>A</td>
<td>$4.61</td>
<td>$4.19</td>
<td>10</td>
</tr>
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<td>3/4</td>
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<td>$4.95</td>
<td>10</td>
</tr>
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<td>3/8&quot;</td>
<td>N34-038BR</td>
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<td>$19.96</td>
<td>$18.14</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
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<td>$17.42</td>
<td>10</td>
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<td>N34-075BR</td>
<td>C</td>
<td>$18.20</td>
<td>$16.54</td>
<td>10</td>
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<td>$22.64</td>
<td>$20.58</td>
<td>10</td>
</tr>
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<td>$47.94</td>
<td>10</td>
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### Male NPT End

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
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<td>$5.01</td>
<td>10</td>
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<td>A</td>
<td>$4.79</td>
<td>$4.35</td>
<td>10</td>
</tr>
<tr>
<td>3/4</td>
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<td>$5.50</td>
<td>$5.00</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>N33-100</td>
<td>A</td>
<td>$6.10</td>
<td>$5.54</td>
<td>10</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>N33-038BR</td>
<td>C</td>
<td>$19.95</td>
<td>$18.13</td>
<td>10</td>
</tr>
<tr>
<td>1/2</td>
<td>N33-050BR</td>
<td>C</td>
<td>$18.11</td>
<td>$16.46</td>
<td>10</td>
</tr>
<tr>
<td>3/4</td>
<td>N33-075BR</td>
<td>C</td>
<td>$19.90</td>
<td>$18.09</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>N33-100BR</td>
<td>C</td>
<td>$22.64</td>
<td>$20.58</td>
<td>10</td>
</tr>
</tbody>
</table>

### Stainless Steel

<table>
<thead>
<tr>
<th>Stainless Steel</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>N33-050SS</td>
<td>C</td>
<td>$73.06</td>
<td>$66.41</td>
<td>10</td>
</tr>
<tr>
<td>3/4</td>
<td>N33-075SS</td>
<td>C</td>
<td>$73.23</td>
<td>$66.57</td>
<td>10</td>
</tr>
<tr>
<td>1</td>
<td>N33-100SS</td>
<td>C</td>
<td>$71.92</td>
<td>$65.38</td>
<td>10</td>
</tr>
</tbody>
</table>

### Blank End Plug (Plated Iron)

<table>
<thead>
<tr>
<th>Stainless Steel</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>N37</td>
<td>C</td>
<td>$8.73</td>
<td>$7.93</td>
<td>10</td>
</tr>
</tbody>
</table>

### Blank End Plug (Stainless Steel)

<table>
<thead>
<tr>
<th>Stainless Steel</th>
<th>Part Number</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>N37SS</td>
<td>C</td>
<td>$19.61</td>
<td>$17.82</td>
<td>10</td>
</tr>
</tbody>
</table>

**WARNING:**

Safety clips are always to be used to prevent accidental disconnection from vibration or twisting.
This line of universal fittings are manufactured to stricter tolerances than the N30 series imported universal ends, listed on the previous page. The N32D "machined" barbed hose end offers superior retention against coupling blow out (for added safety ends should be coupled with a crimp sleeve). Standard ends are plated malleable iron. Maximum pressure is 150 psi air or water (not for steam service) and safety clips are always required. Universal's are also available in Auto-Locking on request.

**Hose End**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot;</td>
<td>N32D-038</td>
<td>C $18.22</td>
<td>$16.56</td>
<td>10</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>N32D-050</td>
<td>B $12.21</td>
<td>$11.10</td>
<td>10</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>N32D-075</td>
<td>A $12.46</td>
<td>$11.32</td>
<td>10</td>
</tr>
<tr>
<td>1&quot;</td>
<td>N32D-100</td>
<td>B $15.78</td>
<td>$14.34</td>
<td>10</td>
</tr>
</tbody>
</table>

**Female NPT End**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>N34D-050</td>
<td>B $14.44</td>
<td>$13.12</td>
<td>10</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>N34D-075</td>
<td>A $13.83</td>
<td>$12.57</td>
<td>10</td>
</tr>
<tr>
<td>1&quot;</td>
<td>N34D-100</td>
<td>B $17.66</td>
<td>$16.05</td>
<td>10</td>
</tr>
</tbody>
</table>

**4-Lug Universal Ends**

"Air King" 4-lug universals are simply a universal quick acting coupling designed for 1-1/4 – 2" hoses which can be used for low pressure fluid transfer water such as on washdown hoses in mills. They are not recommended for steam service or compressed air service. As with the 2-lug universals, safety clips are highly recommended to prevent accidental disconnection – never disconnect any air hose under pressure. Replacement safety clips & gaskets are listed on the "Universal End Accessories" page in this section of our catalogue. Note: We DO NOT recommend crimp sleeves on 1-1/4"-2" 4-lug cast iron Universals, the cast barb design is not compatible with modern crimping technology. 1-1/4"-2" 4-lug Universals should not be used in critical application as they are an older legacy product that is of inadequate design for proper coupling integrity and do not provide a high enough level of safety or reliability especially if used in applications subject to pressure and/or temperature. It is recommended that Dixon Boss or Campbell Vilton Seal Ground Joint Couplings and Clamps in air hoses over 1".

**Male NPT End**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>N33D-050</td>
<td>B $13.91</td>
<td>$12.64</td>
<td>10</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>N33D-075</td>
<td>B $14.26</td>
<td>$12.96</td>
<td>10</td>
</tr>
<tr>
<td>1&quot;</td>
<td>N33D-100</td>
<td>B $15.61</td>
<td>$14.19</td>
<td>10</td>
</tr>
</tbody>
</table>

**Universalock Safety Couplings**

Many users neglect to use “safety pins” when using 2-lug Universal Ends so these have a special locking collar that prevents accidental disconnection. Typically they can be installed at the compressor or manifold. They interchange with all 2-lug universals, replacement gaskets do NOT interchange.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>N32L-050</td>
<td>N $35.33</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>N32L-075</td>
<td>C $35.33</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>N32L-100</td>
<td>C $36.02</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Safety Clips**

Safety clips are always to be used to prevent accidental disconnection from vibration or twisting.
Compressor "Y"

This is a heavy duty plated malleable iron "Y" that converts a single supply source into a dual outlet (1" inlet, 3/4" dual outlet).

<table>
<thead>
<tr>
<th>NPT Inlet x Outlet</th>
<th>Part Number</th>
<th>Std</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;x3/4&quot;</td>
<td>N30Y-100-075Y</td>
<td>$93.20</td>
<td>$84.72</td>
<td>5</td>
</tr>
</tbody>
</table>

Vented series has a small hole at the bottom that works as a drain to reduce line pressure once the valve is closed.

Brass ‘Y’ Valve

These dual action ‘Y’ valves are ideal for compressor applications. Non-vented are rated to 600 PSI WOG & Vented are rated to 125 PSI WOG.

<table>
<thead>
<tr>
<th>Inlet Size</th>
<th>Outlet Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;</td>
<td>3/4&quot;</td>
<td>N31-100-075YNV</td>
<td>$213.00</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1 1/4</td>
<td>3/4&quot;</td>
<td>N31-125-075YNV</td>
<td>$213.00</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1&quot;</td>
<td>3/4&quot;</td>
<td>N31-100-075YV</td>
<td>$213.00</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>1 1/4</td>
<td>3/4&quot;</td>
<td>N31-125-075YV</td>
<td>$213.00</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Heavy Duty Aluminum In-Line Air Lubricator

These lubricate reciprocating air tools by pressure feeding a fine mist of oil into the line. They should be located within 25" of tool, and mounted in an upright position (refer to the arrow for proper air flow direction, minimum 30 SCFM). Flow can be regulated with a screw driver (10-13 settings from 1ml/hour to 580ml/hour on certain sizes). Flow rates will also vary due to different temperatures and oil weight. A sight glass allows visual inspection of oil level. Our CF series heavy duty "constant-feed" lubricators provide constant lubrication for nonstop operating equipment. They offer a greater pressure range, larger oil capacity, and a manual relief to enable the user to bleed the line. Constant-feed lubricators can be commonly found in the mining industry.

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>PF300</td>
<td>C</td>
<td>250psi</td>
<td>2.7ozs</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>PF400</td>
<td>C</td>
<td>250psi</td>
<td>5.3ozs</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>PF405</td>
<td>C</td>
<td>250psi</td>
<td>8.0ozs</td>
</tr>
<tr>
<td>1&quot;</td>
<td>PF500</td>
<td>C</td>
<td>250psi</td>
<td>8.0ozs</td>
</tr>
<tr>
<td>1&quot;</td>
<td>PF505</td>
<td>C</td>
<td>250psi</td>
<td>16 ozs</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>SLL1</td>
<td>C</td>
<td>1.2L</td>
<td>430.39</td>
</tr>
</tbody>
</table>

"Constant-Feed" Manual Relief

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Part Number</th>
<th>Std</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/4&quot;</td>
<td>CF60-125</td>
<td>C</td>
<td>500psi</td>
<td>32oz</td>
</tr>
<tr>
<td>1 1/4&quot;</td>
<td>CF120-125</td>
<td>C</td>
<td>500psi</td>
<td>64oz</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>CF60-150</td>
<td>N</td>
<td>500psi</td>
<td>32oz</td>
</tr>
<tr>
<td>1 1/2&quot;</td>
<td>CF120-150</td>
<td>C</td>
<td>500psi</td>
<td>64oz</td>
</tr>
<tr>
<td>2&quot;</td>
<td>CF230-200</td>
<td>N</td>
<td>500psi</td>
<td>3.8L</td>
</tr>
<tr>
<td>2&quot;</td>
<td>CF290-200</td>
<td>C</td>
<td>500psi</td>
<td>5.7L</td>
</tr>
</tbody>
</table>

Replacement Parts (for PF Series Only)

| All PF | FF920 | Fill Plug Assembly | $32.76 |
| All PF | FF921 | O-ring Service Kit | $24.52 |
| All PF | FF922 | Sight Window Kit  | $30.71 |
Mining fittings are used for underground air or water service in the mining industry. They feature a metal to metal tapered seat and are made of zinc plated steel. Mining outlet pipe nipples are double reamed ends which permit greater seating area over standard schedule 40 pipe nipples.

### Hex Air Tool Hose Stems

Hex hose stems are used for medium to high pressure air, water, or liquid service. They have a longer barb than standard brass hose barbs, which allows for more of a secure clamping method. They are commonly used on short air whip hoses (3’ to 10’) where quick acting couplings alone do not stand up to the constant vibration and will fail prematurely. The N176 plated steel stems are rated to a maximum pressure of 150psi (depending on the clamping method). The air tool "bent stems" listed below are for use up to 90psi and are designed to reduce hose bending stress at the air tool as well as reduce operator fatigue.

### Female Stem

<table>
<thead>
<tr>
<th>Size</th>
<th>Pipe Size</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>1/2”</td>
<td>N84-050-050</td>
<td>C</td>
<td>$ 6.40</td>
<td>$ 5.81</td>
</tr>
<tr>
<td>1/2”</td>
<td>1</td>
<td>N84-050-100</td>
<td>B</td>
<td>7.67</td>
<td>7.15</td>
</tr>
<tr>
<td>3/4”</td>
<td>1</td>
<td>N84-075-100</td>
<td>B</td>
<td>8.73</td>
<td>8.53</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>N84-100-100</td>
<td>A</td>
<td>8.03</td>
<td>7.30</td>
</tr>
</tbody>
</table>

*These are double reamed for a larger seating surface and are threaded longer (so they can completely thread into the mining nut) as compared to more economical pipe fittings.

### Hex (Use w/ Female Stem)

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>N85HN-100</td>
<td>A</td>
<td>10.69</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>N85HN-125</td>
<td>N</td>
<td>10.32</td>
<td>10</td>
</tr>
<tr>
<td>1-1/2</td>
<td>N85HN-150</td>
<td>C</td>
<td>14.37</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>N85HN-200</td>
<td>C</td>
<td>21.13</td>
<td>10</td>
</tr>
</tbody>
</table>

*Mining Hose Union Sch40 - Double Reamed

<table>
<thead>
<tr>
<th>MNPT Size</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>N89-100-100</td>
<td>C</td>
<td>$ 6.40</td>
<td>10</td>
</tr>
</tbody>
</table>

These are double reamed for a larger seating surface and are threaded longer (so they can completely thread into the mining nut) as compared to more economical pipe fittings.

### Plated Carbon Steel Hex Air Tool Stem

<table>
<thead>
<tr>
<th>Hose Size</th>
<th>NPT Size</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Bulk Price</th>
<th>Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>1/8”</td>
<td>N176-025-025</td>
<td>C</td>
<td>$ 4.51</td>
<td>$ 3.92</td>
</tr>
<tr>
<td>1/4”</td>
<td>1/4”</td>
<td>N176-025-025</td>
<td>B</td>
<td>4.67</td>
<td>4.06</td>
</tr>
<tr>
<td>1/4”</td>
<td>3/8”</td>
<td>N176-025-038</td>
<td>C</td>
<td>5.75</td>
<td>5.00</td>
</tr>
<tr>
<td>3/8”</td>
<td>1/4”</td>
<td>N176-038-025</td>
<td>A</td>
<td>4.35</td>
<td>3.78</td>
</tr>
<tr>
<td>3/8”</td>
<td>3/8”</td>
<td>N176-038-038</td>
<td>A</td>
<td>4.67</td>
<td>4.06</td>
</tr>
<tr>
<td>3/8”</td>
<td>3/8”</td>
<td>N176-038-050</td>
<td>B</td>
<td>5.75</td>
<td>5.00</td>
</tr>
<tr>
<td>1/2”</td>
<td>1/4”</td>
<td>N176-050-025</td>
<td>B</td>
<td>6.21</td>
<td>5.40</td>
</tr>
<tr>
<td>1/2”</td>
<td>3/8”</td>
<td>N176-050-038</td>
<td>A</td>
<td>6.07</td>
<td>5.27</td>
</tr>
<tr>
<td>1/2”</td>
<td>1/2”</td>
<td>N176-050-050</td>
<td>A</td>
<td>7.00</td>
<td>6.08</td>
</tr>
<tr>
<td>1/2”</td>
<td>3/4”</td>
<td>N176-050-075</td>
<td>B</td>
<td>10.17</td>
<td>8.44</td>
</tr>
<tr>
<td>3/4”</td>
<td>1/2”</td>
<td>N176-075-050</td>
<td>B</td>
<td>11.50</td>
<td>10.00</td>
</tr>
<tr>
<td>3/4”</td>
<td>3/4”</td>
<td>N176-075-075</td>
<td>A</td>
<td>9.72</td>
<td>8.45</td>
</tr>
<tr>
<td>3/4”</td>
<td>1</td>
<td>N176-100-075</td>
<td>B</td>
<td>12.84</td>
<td>11.25</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>N176-100-100</td>
<td>A</td>
<td>13.46</td>
<td>11.70</td>
</tr>
</tbody>
</table>

### Angled Hose Barb Stem

<table>
<thead>
<tr>
<th>Hose Size</th>
<th>Tool Thread</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Std Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>7/8&quot;-24</td>
<td>ATS7812H</td>
<td>C</td>
<td>$ 5.94</td>
<td>5.40</td>
</tr>
<tr>
<td>1/2”</td>
<td>7/8&quot;-24</td>
<td>N88-100-100</td>
<td>B</td>
<td>5.05</td>
<td>4.59</td>
</tr>
</tbody>
</table>

### Angled NPT x 7/8"-24 Tool Thread Adapter

<table>
<thead>
<tr>
<th>NPT Size</th>
<th>Tool Thread</th>
<th>Part Number</th>
<th>Stk Price</th>
<th>Std Price/ea</th>
<th>Std Pkg</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8”</td>
<td>7/8&quot;-24</td>
<td>ATS7838M</td>
<td>N</td>
<td>$ 7.023</td>
<td>7.023</td>
</tr>
</tbody>
</table>
These are commonly used on hose for air, water, steam, sandblast, concrete (WN-1 Nylon restraint) or other pressure applications (as a guide, maximum 200psi applications due to force and weight of the actual application) to help prevent accidents or injury resulting from a hose "whipping" in the event of a hose failure or coupling blow-off. They are not designed for lifting or towing. Hose Restraints are required by the Workers’ Compensation Board, Canada Occupational Health & Safety, Bureau of Mines, OSHA, and others in order to provide a positive safeguard and prevent injury or property damage. Our ‘Whipchecks’ are made of plated steel or stainless steel cable with spring loaded loops to pass over couplings for a firm grip on the hose (must be installed in the extended position so there is not slack present - image shown below). Our ‘Whiplocks’ have a unique sleeve that eliminates metal-to-metal friction making them easier to install & remove especially for use on larger sizes or on layflat style hoses where standard Whipchecks do not provide enough grip on the hose. ‘Whiplocks’ are also manufactured to stricter tolerances (ASTM A764.79) which offers greater tensile strength. We also offer a Nylon Safety Restraint which is commonly used in the concrete industry as it remains flexible after it comes in contact with concrete and can be rinsed for reuse.

### Hose Restraint Mesh

<table>
<thead>
<tr>
<th>Hose ID Range</th>
<th>Part #</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 - 1-1/4&quot;</td>
<td>WB-1 (1/8&quot;)</td>
<td>A</td>
<td>14.00</td>
<td>$12.72</td>
<td>10</td>
</tr>
<tr>
<td>1-1/2 - 3&quot;</td>
<td>WA-2 (1/4&quot;)</td>
<td>A</td>
<td>23.18</td>
<td>21.07</td>
<td>10</td>
</tr>
<tr>
<td>3-1/2 - 6&quot;</td>
<td>WA-3 (3/8&quot;)</td>
<td>C</td>
<td>88.71</td>
<td>80.64</td>
<td>1</td>
</tr>
</tbody>
</table>

### Stainless Steel Whipcheck (Hose-to-Hose Use)

<table>
<thead>
<tr>
<th>Hose ID Range</th>
<th>Part #</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 - 1-1/4&quot;</td>
<td>WB-1SS (1/8&quot;)</td>
<td>C</td>
<td>24.29</td>
<td>22.08</td>
<td>10</td>
</tr>
<tr>
<td>1-1/2 - 3&quot;</td>
<td>WA-2SS (1/4&quot;)</td>
<td>C</td>
<td>58.35</td>
<td>53.04</td>
<td>10</td>
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</table>

### Hose Restraint Safety Cables

<table>
<thead>
<tr>
<th>Hose ID Range</th>
<th>Part #</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 - 1-1/4&quot;</td>
<td>WB-500</td>
<td>C</td>
<td>$45.28</td>
<td>$41.16</td>
<td>10</td>
</tr>
<tr>
<td>1-1/2 - 3&quot;</td>
<td>W-1600</td>
<td>C</td>
<td>70.36</td>
<td>63.96</td>
<td>10</td>
</tr>
<tr>
<td>3-1/2 - 6&quot;</td>
<td>W-1800</td>
<td>C</td>
<td>156.82</td>
<td>142.56</td>
<td>10</td>
</tr>
</tbody>
</table>

### Hose-to-Tool Use

<table>
<thead>
<tr>
<th>Hose ID Range</th>
<th>Part #</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 - 1-1/4&quot;</td>
<td>WSR-1 (1/8&quot;)</td>
<td>C</td>
<td>$19.47</td>
<td>$17.70</td>
<td>10</td>
</tr>
<tr>
<td>1-1/2 - 3&quot;</td>
<td>WSR-2 (1/4&quot;)</td>
<td>C</td>
<td>31.9</td>
<td>29.00</td>
<td>10</td>
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</tbody>
</table>

### Nylon Safety Restraint

<table>
<thead>
<tr>
<th>Hose ID Range</th>
<th>Part #</th>
<th>+ Stk</th>
<th>Std Price</th>
<th>Bulk Price</th>
<th>Bulk Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 - 6&quot;</td>
<td>WN-1</td>
<td>N</td>
<td>$53.50</td>
<td>$48.63</td>
<td>10</td>
</tr>
</tbody>
</table>

*Available in Stainless (suffix -SS) upon special request.

HosePro Recommends:

**Whipcheck Safety Cables should be used on all Heavy Duty Air Hose Assemblies. Shown properly installed with no slack, fully extended.**

### Hose Restraint Safety Sleeves, Hose Hobbes & Shackles

Hose Restraint Safety Sleeves fit over a hose assembly end by a few feet (like a sock) and have two thimble eyes to anchor the hose to the equipment and reduce the possibility of hose whip in the event of coupling failure; as well as they can help support the suspended weight of the line and take the strain off the end connection, however they are NOT designed for lifting or towing. They are manufactured from two-ply galvanized strand making them durable and resistant to corrosion and weathering. For ease of installation they should be installed before actually inserting the hose coupling when making the hose. Effective means of restraint must be used (a) on a connection of a hose or a pipe if inadvertent disconnection could be dangerous to a worker, (b) if unplanned movement of an object or component could endanger a worker, or (c) to secure an object from falling and endangering a worker.

### WorkSafe

**Section 12.15 Restraining devices**

Refer to our website for installation instructions; operators must be aware of the potential hazards and limitations. Mesh Restraints are no substitute to negligence, oversight, or poorly designed systems or routing. Never disconnect a coupling that is under pressure even when machine is off.