A Lincoln lubrication fitting can be used for all of your lubrication needs. Our fittings are used in the automobile, agricultural, marine, truck, construction equipment and machine manufacturing industries.

Lincoln offers a full line of lubrication fittings to meet the manufacturing requirements of today’s industries. Our line consists of common threaded, thread-forming, drive-type, stainless steel, pressure relief, standard button head and vent fittings.

The ball check in the head of the fitting prevents dirt and grit from getting into the bearing. The fittings can be wiped clean without forcing foreign material into the fitting and the bearing. The true spherical contour of the fitting head provides a natural ball and socket joint between the fitting head and any commercial hydraulic coupler for a wide-angularity of contact, and a tight metal-to-metal seal. The internal spring on the fittings is tempered with music wire, coiled so that it cannot be compressed to restrict the flow of heavy lubricants, or forced out of the body under normal pressures. The fittings have a specially formed lip at the fitting base that locks the spring and ball securely in place.
Lubrication Fittings & Accessories

Introduction

Remote Lube Fitting Systems:
To easily reach hidden, inaccessible or hazardous bearings

Hard-to-reach lubrication fittings present a major maintenance problem for the proper care of all types of machinery.

Hidden or guarded lubrication fittings can lead to production downtime, higher operating and maintenance costs and the risk of personal injury to operators and employees—all directly traceable to poor lubrication fitting access.

**How do you eliminate these problems?**

Lincoln’s Remote Lube Fitting Systems

**Benefits**

- Easy access to lubrication fittings
- Easier, quicker and safer lubrication
- Assures that all bearings are lubricated
- Bearings can be safely lubricated while machine is operating
- Reaches hidden, inaccessible or hazardous bearings
Lubrication Fittings & Accessories
Threaded Fittings

All of the straight grease fittings are heat treated. On the angle fittings, the ball check end or the greasing end is heat treated. The spin-drive and drive-type angle fittings are entirely heat treated. All fittings are zinc plated and have a supplemental coating of chromate.

¼" - 28 Thread (Straight & Taper)
This type of thread is used mostly on cars and light trucks. The (SAE-LT) is a thread that conforms to the Society of Automotive Engineers lubrication fittings thread specification.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in./mm</th>
<th>B in./mm</th>
<th>C in./mm</th>
<th>D in./mm</th>
<th>E in./mm</th>
<th>F in./mm</th>
<th>G in./mm</th>
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<td>—</td>
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<td>.260 / 6.6</td>
<td>45°</td>
<td>37/64 / 14.7</td>
<td>27/64 / 10.7</td>
</tr>
</tbody>
</table>

* Not illustrated. Same as No. 5010 but without Ball Check.
### ⅛" Pipe Thread

The ⅛" pipe threaded fittings are constructed for additional strength. This type of fitting is popular for use in the construction and agricultural industry and large industrial machinery.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in./mm</th>
<th>B in./mm</th>
<th>C in./mm</th>
<th>D in./mm</th>
<th>E °</th>
<th>F in./mm</th>
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<td>⅛/12.7</td>
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<td>⅛/18.3</td>
<td>⅛/12.7</td>
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<td>90°</td>
<td>⅛/18.7</td>
<td>⅛/12.7</td>
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* Not illustrated. Same as No. 5000 but without Ball Check.
### ¼" Pipe Thread

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<th>A (in. / mm)</th>
<th>B (in. / mm)</th>
<th>C (in. / mm)</th>
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<th>E (in. / mm)</th>
<th>F (in. / mm)</th>
<th>G (in. / mm)</th>
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<tr>
<td>5350</td>
<td>1 ½ / 26.2</td>
<td>¾ / 9.5</td>
<td>¾ / 14.3</td>
<td>.535 / 13.6</td>
<td>65°</td>
<td>¾ / 20.6</td>
<td>½ / 13.5</td>
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### Metric Fittings—6mm, 8mm, 10mm

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<th>A (in. / mm)</th>
<th>B (in. / mm)</th>
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<th>D (in. / mm)</th>
<th>E (in. / mm)</th>
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<th>G (in. / mm)</th>
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<td>—</td>
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<tr>
<td>*5176</td>
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<td>¾ / 5.6</td>
<td>9mm</td>
<td>6mm x 1</td>
<td>45°</td>
<td>¾ / 14.7</td>
<td>¾ / 9.9</td>
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<tr>
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<td>9mm</td>
<td>6mm x 1</td>
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<td>½ / 19.1</td>
<td>¾ / 14.3</td>
</tr>
<tr>
<td>*5178</td>
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<td>9mm</td>
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<tr>
<td>*5179</td>
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<td>¾ / 5.6</td>
<td>9mm</td>
<td>8mm x 1</td>
<td>45°</td>
<td>¾ / 14.7</td>
<td>¾ / 9.9</td>
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<td>*5180</td>
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<td>9mm</td>
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<td>¾ / 14.3</td>
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<tr>
<td>5181</td>
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<td>11mm</td>
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<tr>
<td>5182</td>
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<td>¾ / 5.6</td>
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<td>10mm x 1</td>
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<td>¾ / 10.7</td>
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<tr>
<td>5183</td>
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<td>90°</td>
<td>¾ / 20.6</td>
<td>¾ / 15.5</td>
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</tbody>
</table>

* Not illustrated.
Spin-Drive

Spin-Drive (thread forming) fittings have special tapered drive threads for fast production line installation in untapped holes to save tapping cost. Spinning into the hole with a power wrench provides the most effective installation. Installation torque limits, to avoid stripping, should be established by test in the type of material in which production fittings are to be installed. Installation force causes a rearrangement of mating material to conform with the fitting thread contour creating a leak-tight permanent seal. Not recommended for heat treated parts. Fitting threads are heat treated to Rockwell 83-89 on the 15N scale. The body portion for this type of fitting thread is a yellow chromate finish for identification from the standard fitting thread.

For field servicing, Spin-Drive fittings may be replaced by any standard fitting having the same thread size or another Spin-Drive fitting.

### Spin-Drive Fittings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
<th>D in. / mm</th>
<th>E in. / mm</th>
<th>F in. / mm</th>
<th>G in. / mm</th>
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</thead>
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<td>205010</td>
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<td>7⁄₈ / 5.3</td>
<td>5⁄₁₆ / 7.9</td>
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<tr>
<td>205000</td>
<td>5⁄₈ / 15.9</td>
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<tr>
<td>247235</td>
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<td>21⁄₄ / 8.3</td>
<td>7⁄₁₆ / 11.1</td>
<td>.400 / 10.2</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>205210</td>
<td>13⁄₁₆ / 20.6</td>
<td>13⁄₄ / 5.1</td>
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<td>.256 / 6.5</td>
<td>45°</td>
<td>37⁄₆₄ / 14.7</td>
<td>5⁄₈ / 9.7</td>
</tr>
<tr>
<td>205200</td>
<td>25⁄₃₂ / 19.8</td>
<td>13⁄₄ / 5.2</td>
<td>7⁄₁₆ / 11.1</td>
<td>.396 / 10.1</td>
<td>45°</td>
<td>5⁄₈ / 15.9</td>
<td>13⁄₈ / 10.3</td>
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<tr>
<td>205410</td>
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<td>.256 / 6.5</td>
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<td>21⁄₂ / 16.7</td>
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<td>90°</td>
<td>49⁄₆₄ / 18.7</td>
<td>33⁄₆₄ / 13.0</td>
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</table>
Drive-Type Fittings

Drive-type fittings are designed for fast production line installation in untapped holes to save thread tapping costs. Circumferential serrations on shank provide a hydraulic tight seal when fitting is installed properly. Cannot be used where high lubricant back pressures can be developed.

Hole sizes and shank dimensions are for reference use only. To determine optimum hole size, test applications should be conducted using the type of material into which the fitting is to be installed—steel, cast iron, brass, aluminum, etc. Production tolerances of hole size must be taken into consideration when test is conducted.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
<th>D in. / mm</th>
<th>E in. / mm</th>
<th>F in. / mm</th>
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<td>65°</td>
<td>¹¹⁄₆ / 17.5</td>
<td>¹⁄₂ / 12.7</td>
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</table>
Stainless Steel Fittings

Select Lincoln stainless steel fittings for marine applications, food processing machinery, sewage disposal systems or any use where protection against corrosive elements is a design criteria. Stainless steel ball checks and springs are securely housed in passivated austenitic type 303 stainless steel bodies for maximum usable life and performance. To avoid use of inferior substitutes specify Lincoln Stainless Steel fittings by part number on your drawings.

Stainless Steel Fittings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
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<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>90°</td>
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</tbody>
</table>
**Lubrication Fittings & Accessories**

**Special Purpose Fittings**

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**Leakproof Fittings**

Leakproof fittings are a special purpose fitting for use in those applications where a positive seal is essential. A special synthetic rubber seal, conforming with ASTM D2000 and SAE J200 specifications, is used to provide an effective seal against light or heavy viscosity lubricants and will withstand a back pressure up to 5,000 psig (345 bars). Not suitable as a check valve against high, sustained back pressure. Check and spring are designed to permit easy flow of lubricants.

**Pressure Relief Valves**

Use wherever control of oil or grease pressure is required. Releases pressure build up during equipment operation or when filling gear cases or bearing housings with pressure guns. Twin vent ports provide visual indication of pressure relief. Select valve with pressure range best suited to design application.

Operating parts are positioned internally for maximum protection against entry of dirt or valve damage. Ball check is located at base of valve body as close as possible to protected material. Not recommended to be used below the fluid level.

**Safety Vent Fitting**

Required for use in those applications where a build up of pressure in the bearing is undesirable or damaging. A vent slot cut vertical to the threads provides an air escape during bearing fill and when grease appears serves as a bearing fill indicator. Vent slot restriction permits bearing fill without build up of prohibitive pressure.

**Atmospheric Vent**

For use on differentials, transmissions and gear boxes. It allows air to escape and enter as the internal pressure increases or decreases. The cap prevents dirt from entering. Must be installed above the normal level of fluid.

**Button Head Fittings**

Lincoln standard button head fittings are designed for use where volume flow of lubricant is required, such as bearings on earth moving equipment, conveyors and mining machinery. Heat treated and zinc plated for long service life.

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
<th>D in. / mm</th>
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### Street Elbows

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<th>B in./mm</th>
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<th>D in./mm</th>
<th>E</th>
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<td>247616</td>
<td>2</td>
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<td>1/8 PTF</td>
<td>45°</td>
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<td>1</td>
<td>1 / 25.4</td>
<td>15/32 / 11.9</td>
<td>1/2 / 12.7 Sq.</td>
<td>1/8 PTF</td>
<td>90°</td>
<td>1/8 PTF</td>
<td>—</td>
</tr>
<tr>
<td>13155</td>
<td>1</td>
<td>1 / 25.4</td>
<td>9/16 / 9.5</td>
<td>1/2 / 12.7 Sq.</td>
<td>1/8 NPSM</td>
<td>90°</td>
<td>1/8 NPTF</td>
<td>1/4-28 UNF</td>
</tr>
<tr>
<td>13129</td>
<td>1</td>
<td>1 1/2 / 38.1</td>
<td>7/8 / 22.2</td>
<td>5/8 / 15.9 Sq.</td>
<td>1/8 NPTF</td>
<td>90°</td>
<td>1/8 NPTF</td>
<td>—</td>
</tr>
</tbody>
</table>

### Adapters

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in./mm</th>
<th>B in./mm</th>
<th>C in./mm</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>20024</td>
<td>7/8 / 22.2</td>
<td>5/16 / 7.9</td>
<td>1/2 / 12.7 Hex.</td>
<td>1/4-28 Taper</td>
<td>1/8 NPSF</td>
<td>—</td>
</tr>
<tr>
<td>10182</td>
<td>15/16 / 23.8</td>
<td>3/8 / 9.5</td>
<td>9/16 / 14.3 Hex.</td>
<td>1/8 NPTF</td>
<td>1/8 NPTF</td>
<td>—</td>
</tr>
<tr>
<td>13154</td>
<td>7/8 / 22.2</td>
<td>5/8 / 9.5</td>
<td>1/2 / 12.7 Sq.</td>
<td>1/8 NPSM</td>
<td>1/8 NPTF</td>
<td>1/4-28 UNF</td>
</tr>
<tr>
<td>14054</td>
<td>7/8 / 22.2</td>
<td>7/8 / 11.1</td>
<td>1/2 / 12.7 Sq.</td>
<td>1/8 NPSM</td>
<td>1/8 NPTF</td>
<td>1/4-28 UNF</td>
</tr>
</tbody>
</table>

### Plugs

No. 12511
1/4" P.T.F. Spec. Extra Short
**Fitting Installation and Removal Tools**

**Model 11485**
For use to install straight drive-type fittings into untapped holes.

**Model 11509**
For use to install angle drive-type fittings into untapped holes.

**Easy Out Tool**
Combination tool for removing worn or broken fittings and retapping holes for new fitting installation, two models available:

**Model G904**
For tapping ¼" -28 threads and removal of both ⅜" and ⅝" Hex, straight or angle fittings.

**Model G905**
For tapping ⅛" NPT threads and removal of both ⅝" Hex, straight or angle fittings.

**Depth of Engagement**
When selecting a lubrication fitting, either straight, angle, standard thread, spin-drive or straight drive, be sure to measure engagement depth “A,” taking manufacturing tolerance into consideration. Then select fitting with thread length or drive shank length that will not penetrate bearing material or rest against rotating member.

**Turning Radius**
The turning radius is given for all angle fittings shown in this manual. Be sure that this is taken into consideration during initial machine design and then select a fitting with a turning radius that will permit easy production line installation.

**Deep Set Fittings**
Deep set fittings are sometimes necessary in machine design. When required, make sure sufficient clearance is provided for easy disengagement of hydraulic coupler.

**Angularity of Contact**
Lincoln hydraulic couplers and fittings are designed to provide a hydraulic seal at any coupler angle up to 15°. Movement beyond this angle will cause coupler to disengage.
Lubrication Fittings & Accessories

Design Tips

Determination of Pipe Thread Sizes

<table>
<thead>
<tr>
<th>Nominal Pipe Thread Size</th>
<th>Threads Per Inch</th>
<th>Major Dia. B or C in. / mm</th>
<th>Nominal Engagement for tight Joint A in. / mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>¹⁄₈&quot;</td>
<td>27</td>
<td>.405 / 10.3</td>
<td>¼ / 6.4</td>
</tr>
<tr>
<td>¼&quot;</td>
<td>18</td>
<td>.540 / 13.7</td>
<td>¾ / 9.5</td>
</tr>
<tr>
<td>⅜&quot;</td>
<td>18</td>
<td>.675 / 17.1</td>
<td>⅜ / 9.5</td>
</tr>
<tr>
<td>½&quot;</td>
<td>14</td>
<td>.840 / 21.3</td>
<td>⅛ / 12.7</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>14</td>
<td>1.050 / 26.7</td>
<td>⅛ / 14.3</td>
</tr>
<tr>
<td>1&quot;</td>
<td>11½</td>
<td>1.315 / 33.4</td>
<td>1⅜ / 17.5</td>
</tr>
</tbody>
</table>

Drill Size Selection

<table>
<thead>
<tr>
<th>Fitting Thread Size</th>
<th>Tap Drill Selection for Standard Thread Fitting</th>
<th>Drilling Size Selection for Spin-Drive Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼&quot;-28</td>
<td>#3 (for soft metal, use #5)</td>
<td>&quot;A&quot; - .234&quot;/ 5.9mm Dia. *</td>
</tr>
<tr>
<td>⅜&quot;-32</td>
<td>⅜&quot;/.711mm (for soft metal, use &quot;J&quot;)</td>
<td>—</td>
</tr>
<tr>
<td>½&quot; Pipe</td>
<td>⅞&quot;/.87mm (for soft metal, use &quot;R&quot;)</td>
<td>⅞&quot;/.375&quot;/ 9.5mm Dia. *</td>
</tr>
<tr>
<td>¾&quot; Pipe</td>
<td>⅜&quot;/.111mm</td>
<td>—</td>
</tr>
</tbody>
</table>

* Drill sizes given are nominal and may vary with different types of material. For maximum effectiveness, test applications should be conducted using the type of material into which the fitting is to be installed (steel, cast iron, brass, aluminum, etc.). Production tolerances of hole must be taken into consideration when conducting test.

Lubrication Fitting Thread Symbols

The identification symbols and their meaning which have been adopted for the various threads used in the manufacture of lubrication fittings are given below:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT</td>
<td>American Standard Taper Pipe Thread</td>
</tr>
<tr>
<td>NPTF</td>
<td>Dryseal American Standard Taper Pipe Thread</td>
</tr>
<tr>
<td>PTF</td>
<td>Same as NPTF except full thread length has been shortened by one thread on small end of thread—also designated as PTF—SAE Short</td>
</tr>
<tr>
<td>PTF Special Short</td>
<td>Same as PTF Short except one full thread has been shortened from large end of thread</td>
</tr>
<tr>
<td>PTF Special Extra Short</td>
<td>Same as PTF Short except two full threads have been shortened from large end of thread</td>
</tr>
<tr>
<td>NPSF</td>
<td>Dryseal American Fuel Internal Straight Pipe Thread</td>
</tr>
<tr>
<td>NPSI</td>
<td>Dryseal American Intermediate Internal Straight Pipe Thread</td>
</tr>
<tr>
<td>NPSM</td>
<td>American Standard Straight Mechanical Pipe Thread</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Designation</th>
<th>Symbol</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>American Standard</td>
<td>S</td>
<td>Straight</td>
</tr>
<tr>
<td>P</td>
<td>Pipe</td>
<td>M</td>
<td>Mechanical</td>
</tr>
<tr>
<td>T</td>
<td>Taper</td>
<td>I</td>
<td>Intermediate</td>
</tr>
<tr>
<td>F</td>
<td>Fuel</td>
<td>LT</td>
<td>Lubrication Thread</td>
</tr>
</tbody>
</table>

¹⁄₄"-28 Taper Thread (SAE-LT) Thread has a ⅛" taper per foot and a pitch diameter of .2257/.2224 at small end. The mating tapped hole is ¼"-28 UNF 3B straight thread. Tap drill must not exceed .215" diameter.

¹⁄₄"-28 Special Taper Drive Thread Thread Forming-Forms thread in mating part during installation—when removed can be replaced by standard ¼"-28 taper thread (SAE-LT) fitting.

⅛" Pipe Special Taper Drive Thread Thread Forming-Forms thread in mating part during installation—when removed can be replaced by standard ⅛"-27 PTF series fitting.
Lubrication Fittings & Accessories
Remote Lube Fitting Systems

Hard-to-reach lubrication fittings present a major maintenance problem for the proper care of all types of machinery. Hidden or guarded lubrication fittings can mean production downtime, higher operating and maintenance costs and risk of personal injury to operators and employees—all directly traceable to poor lubrication fitting access. How do you eliminate these problems? Lincoln’s Remote Lube Fitting Systems benefit you by providing easy access to lubrication fittings; lubrication is easier, quicker and safer; assures all bearings will be lubricated—and can be safely lubricated while machine is operating; and finally, it’s possible to reach hidden, inaccessible or hazardous bearings.

Junction Blocks
Junction block surface mount systems are used to bring multiple lubrication points to a common, easily accessible location. The junction blocks provide a means for coupling lubricant feed lines to bearings with lubrication fittings. They are available in three basic design groups and may be mounted in multiple units to meet all application requirements.

Group I
Have 1 1/8" diameter mounting holes at 90° intervals, for use with 9/32" diameter mounting bolts. This permits horizontal or vertical positioning of lubricant inlet passages.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. of Inlets</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
<th>D in. / mm</th>
<th>E in. / mm</th>
</tr>
</thead>
</table>

Group II
Have 9/32" diameter mounting holes for use with 1/4" diameter mounting bolts. Mounting holes are perpendicular to inlet passages permitting vertical positioning only.

<table>
<thead>
<tr>
<th>Group II without Fitting Part No.</th>
<th>Style</th>
<th>Number of Inlets</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
<th>D in. / mm</th>
<th>E in. / mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>14570</td>
<td>1</td>
<td>1</td>
<td>1 1/4 / 31.8</td>
<td>7/8 / 9.5</td>
<td>—</td>
<td>3/4 / 19.1</td>
<td>3/4 / 19.1</td>
</tr>
<tr>
<td>14562</td>
<td>1</td>
<td>2</td>
<td>1 1/4 / 44.5</td>
<td>7/8 / 22.2</td>
<td>—</td>
<td>3/4 / 19.1</td>
<td>3/4 / 19.1</td>
</tr>
</tbody>
</table>
Lubrication Fittings & Accessories
Remote Lube Fitting Systems

Mounting Bolts and Nuts

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in. / mm</th>
<th>B in. / mm</th>
<th>C in. / mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>50057</td>
<td>¼&quot;-20</td>
<td>1½ / 38.1</td>
<td>⅜ / 19.1</td>
</tr>
<tr>
<td>51304</td>
<td>¼&quot;-20</td>
<td>⅜ / 9.6</td>
<td>⅜ / 11.1</td>
</tr>
<tr>
<td>51026</td>
<td>⅜&quot;-18</td>
<td>1⅝ / 4.1</td>
<td>⅜ / 12.7</td>
</tr>
</tbody>
</table>

Accessories
Supply and Feed Line Hose

Note: Use with hose ends No. 241289 or No. 246002.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Alvania #2 Grade</th>
<th>Minimum Burst</th>
<th>Max. Working Pressure</th>
<th>Nominal Size</th>
<th>Minimum Bending</th>
<th>Hose Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>241286</td>
<td>26 ft. / 7.9 M</td>
<td>690 bar</td>
<td>4,000 psig 276 bar</td>
<td>⅛&quot;</td>
<td>3.2 mm</td>
<td>Nylon Tube, Dacron Braid, Polyurethane Cvr</td>
</tr>
<tr>
<td>241287</td>
<td>35 ft. / 10.7 M</td>
<td>10,000 psig</td>
<td>⅝&quot;</td>
<td>⅜&quot;</td>
<td>7.9 mm</td>
<td></td>
</tr>
<tr>
<td>241288</td>
<td>40 ft. / 12.2 M</td>
<td></td>
<td></td>
<td>⅜&quot;</td>
<td>8.9 mm</td>
<td></td>
</tr>
</tbody>
</table>

Feed Line Nylon Tubing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>O.D.</th>
<th>Wall Thickness</th>
<th>Working Pressure</th>
<th>Minimum Bending Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>242025</td>
<td>25 ft. / 7.6 M coil grease* filled</td>
<td></td>
<td>.050&quot; 1.3 mm</td>
<td>625 psig 42.5 bar</td>
<td>.875&quot; 22.2 mm</td>
</tr>
<tr>
<td>242050</td>
<td>50 ft. / 15.2 M coil grease* filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
<tr>
<td>62357</td>
<td>100 ft./30.5 M coil non-grease filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
<tr>
<td>274047</td>
<td>25 ft. / 7.6 M coil grease* filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
<tr>
<td>274048</td>
<td>50 ft. / 15.2 M coil grease* filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
<tr>
<td>274049</td>
<td>100 ft./30.5 M coil non-grease filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
<tr>
<td>274050</td>
<td>500 ft./152.4 M coil non-grease filled</td>
<td></td>
<td>.062&quot; 1.6 mm</td>
<td>500 psig 34.5 bar</td>
<td>0.5&quot; 12.7 mm</td>
</tr>
</tbody>
</table>

Steel Tubing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Max. Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>62175</td>
<td>¼&quot; OD x .020&quot; wall 25' coil 3.2mm OD x .5mm wall 7.6m coil</td>
<td>4400 psig 300 bar</td>
</tr>
<tr>
<td>62176</td>
<td>¼&quot;OD x .028&quot; wall 25' coil 6.4 mm OD x .7mm wall 7.6m coil</td>
<td>2800 psig 190 bar</td>
</tr>
</tbody>
</table>

Installation Tools

Plastic Tube & Hose Cutter
Part No. 226-12508-5
Replacement Blade
Part No. 226-13095-7
**Bulkhead Connectors**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>13154</td>
<td>1</td>
<td>¹⁄₈</td>
<td>¹⁄₂</td>
<td>12.7</td>
<td>¹⁄₄(^{-28}) / 3⁹⁄₁₆ / 4.8 mm</td>
</tr>
<tr>
<td>14054</td>
<td>1</td>
<td>¹⁄₂</td>
<td>¹⁄₂</td>
<td>12.7</td>
<td>¹⁄₄(^{-28}) / ¾ / 6.4 mm</td>
</tr>
<tr>
<td>13155</td>
<td>2</td>
<td>¹⁄₂</td>
<td>¹⁄₂</td>
<td>12.7</td>
<td>¹⁄₄(^{-28}) / ¾ / 4.8 mm</td>
</tr>
<tr>
<td>51055</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Lock Nut ¹⁄₈ N.P.S.M. thread</td>
</tr>
</tbody>
</table>

**Reducing Bushings**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>20024</td>
<td>¹⁄₄</td>
<td>¹⁄₂</td>
<td>½&quot; NPT</td>
<td>¾ / 22.2 mm / ⅞ / 12.7 mm Hex</td>
</tr>
<tr>
<td>67132</td>
<td>³⁄₄</td>
<td>½&quot; NPT</td>
<td>¾ / 19.1 mm</td>
<td>⅞ / 17.5 mm Hex</td>
</tr>
<tr>
<td>20011</td>
<td>³⁄₄</td>
<td>⅛&quot; NPT</td>
<td>¾ / 19.1 mm</td>
<td>⅞ / 19.1 mm Hex</td>
</tr>
</tbody>
</table>

**Swivels**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>66717</td>
<td>1</td>
<td>¹⁄₈</td>
<td>—</td>
<td>1¼ / 31.8 mm</td>
</tr>
<tr>
<td>91048</td>
<td>2</td>
<td>¹⁄₈</td>
<td>¹⁄₈</td>
<td>1¼ / 31.8 mm</td>
</tr>
<tr>
<td>91308</td>
<td>3</td>
<td>¹⁄₈</td>
<td>¹⁄₈</td>
<td>1¾ / 34.9 mm</td>
</tr>
</tbody>
</table>

Note: Not suitable for installations requiring continuous rotation.
Tube Connectors

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>A</th>
<th>B</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>66200</td>
<td>1</td>
<td>¼&quot;</td>
<td>½&quot; NPT</td>
<td>STGT</td>
</tr>
<tr>
<td>66201</td>
<td>1</td>
<td>¼&quot;</td>
<td>½&quot; NPT</td>
<td>90°</td>
</tr>
<tr>
<td>66414</td>
<td>2</td>
<td>⅛&quot;</td>
<td>⅛&quot; NPT</td>
<td>90°</td>
</tr>
<tr>
<td>66415</td>
<td>2</td>
<td>⅛&quot;</td>
<td>⅛&quot; NPT</td>
<td>STGT</td>
</tr>
<tr>
<td>66714</td>
<td>2</td>
<td>⅛&quot;</td>
<td>¼&quot;-28 thd.</td>
<td>STGT</td>
</tr>
<tr>
<td>66716</td>
<td>2</td>
<td>⅛&quot;</td>
<td>¼&quot;-28 thd.</td>
<td>90°</td>
</tr>
</tbody>
</table>

Compression Nut
No. 66260 for use with Style 2 Tube Connectors and 66717 Swivel. For ⅛" O.D. Tubing. Thread size is ⁵⁄₁₆"-24.

Sleeve
No. 68462 for use with Style 1 Tube Connectors. For ¼" O.D. Tubing.

Nut
No. 68464 for use with Style 1 Tube Connectors. For ¼" O.D. Tubing.

Zerk-Lock® Grease Fitting Adapter
Connects any 1/8" NPTF male tube adapter directly to a standard grease fitting. Aluminum, carbon steel construction; fluorocarbons elastomer seal. Useful for connecting to drive-type fittings or metric fittings. Once installed, the Zerk-Lock cannot be removed from the fitting.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Threads in. / mm</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A in. / mm</td>
</tr>
<tr>
<td>270784</td>
<td>⅛&quot; NPSL Female</td>
<td>.625 / 15.9</td>
</tr>
</tbody>
</table>

Installation Accessories
No. 247615 Staking Tool
Quicklinc® Fittings

Use for connections to 1/4" nylon tubing only. Can be used with Zerk-Lock® adapter or be screwed directly into bearing.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>243699</td>
<td>1/4&quot; tube x 1/8&quot; NPT male 90° swivel fitting</td>
</tr>
<tr>
<td>244047</td>
<td>1/4&quot; tube x 1/8&quot; NPT male straight fitting</td>
</tr>
<tr>
<td>244048</td>
<td>1/4&quot; tube x 1/8&quot; NPT male 90° fitting</td>
</tr>
<tr>
<td>244053</td>
<td>1/4&quot; tube x 1/4&quot;-28 male 90° swivel fitting</td>
</tr>
<tr>
<td>244054</td>
<td>1/4&quot; tube x 1/4&quot;-28 male 90° fitting</td>
</tr>
<tr>
<td>244055</td>
<td>1/4&quot; tube x 1/4&quot;-28 male straight fitting</td>
</tr>
<tr>
<td>244058</td>
<td>1/4&quot; tube x 1/4&quot; tube splicer union</td>
</tr>
</tbody>
</table>

Divider Valve Outlet & Inlet Adapters for 1/8" I.D. Hose Quicklinc Push-In Style with Check

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>244053</td>
<td>1/4&quot; tube x 1/4&quot;-28 male 90° swivel fitting</td>
</tr>
<tr>
<td>272658</td>
<td>Valve outlet fitting with check</td>
</tr>
<tr>
<td>272659</td>
<td>1/4&quot; tube x 1/4&quot; NPT male straight fitting</td>
</tr>
</tbody>
</table>

IMPORTANT: Use the valve adapters for connecting the 1/8" high pressure hose (incl. hose stud with groove) to the main divider valve. The collet of the adapter is not knurled and has a wide collar.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>432-24313-1</td>
<td>Protective Quicklinc rubber boot</td>
</tr>
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</table>

Standard Compression Fittings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>241290</td>
<td>1/4&quot; tube x 1/8&quot; NPT male straight fitting</td>
</tr>
<tr>
<td>241293</td>
<td>1/4&quot; tube x 1/8&quot; NPT male 90° fitting</td>
</tr>
</tbody>
</table>

Snap-On Connector Fittings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>241388</td>
<td>90° snap-on connector for 1/4&quot; O.D. tubing</td>
</tr>
<tr>
<td>241389</td>
<td>Straight snap-on connector for 1/4&quot; O.D. tubing</td>
</tr>
<tr>
<td>66713</td>
<td>Compression nut for 241388 and 241389</td>
</tr>
<tr>
<td>82617</td>
<td>Straight snap-on connector for 1/6&quot; O.D. tubing</td>
</tr>
<tr>
<td>82618</td>
<td>90° snap-on connector for 1/6&quot; O.D. tubing</td>
</tr>
<tr>
<td>13112</td>
<td>Compression nut for 82617 and 82618</td>
</tr>
</tbody>
</table>

Tube Clamps for 1/4" O.D. Tubing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>No. of Tubes</th>
</tr>
</thead>
<tbody>
<tr>
<td>64533-1</td>
<td>—</td>
<td>1/4&quot;</td>
<td>6.4</td>
<td>1/4&quot; / 9.5</td>
</tr>
<tr>
<td>64533-2</td>
<td>1/8&quot;</td>
<td>1/2&quot;</td>
<td>12.7</td>
<td>1/2&quot; / 9.5</td>
</tr>
<tr>
<td>64533-3</td>
<td>1/8&quot;</td>
<td>3/4&quot;</td>
<td>18.1</td>
<td>3/4&quot; / 9.5</td>
</tr>
<tr>
<td>64533-4</td>
<td>1/8&quot;</td>
<td>1&quot;</td>
<td>25.4</td>
<td>1&quot; / 9.5</td>
</tr>
<tr>
<td>64533-5</td>
<td>1/4&quot;</td>
<td>1-1/4&quot;</td>
<td>31.8</td>
<td>1-1/4&quot; / 9.5</td>
</tr>
</tbody>
</table>
Tube Clamps for 1/8" O.D. Tubing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>No. of Tubes</th>
</tr>
</thead>
<tbody>
<tr>
<td>64532-1</td>
<td>—</td>
<td>1/8&quot; / 3.2</td>
<td>3/8&quot; / 9.5</td>
<td>1</td>
</tr>
<tr>
<td>64532-2</td>
<td>11/16&quot; / 17.5 mm</td>
<td>1/4&quot; / 6.4</td>
<td>3/8&quot; / 9.5</td>
<td>2</td>
</tr>
<tr>
<td>64532-3</td>
<td>3/16&quot; / 20.6 mm</td>
<td>3/8&quot; / 9.5</td>
<td>3/8&quot; / 9.5</td>
<td>3</td>
</tr>
<tr>
<td>64532-4</td>
<td>15/16&quot; / 23.8 mm</td>
<td>3/4&quot; / 12.7</td>
<td>3/8&quot; / 9.5</td>
<td>4</td>
</tr>
<tr>
<td>64532-5</td>
<td>11/16&quot; / 27.0 mm</td>
<td>5/8&quot; / 15.9</td>
<td>3/8&quot; / 9.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Insulated “J” Type Clamps

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>68511</td>
<td>7/16&quot; / 11.1 mm opening 13/32&quot; / 10.3 dia. hole</td>
</tr>
<tr>
<td>68535</td>
<td>7/16&quot; / 11.1 mm opening 17/32&quot; / 13.5 dia. hole</td>
</tr>
<tr>
<td>68987</td>
<td>11/16&quot; / 17.5 mm opening 7/16&quot; / 11.1 dia. hole</td>
</tr>
</tbody>
</table>

Clip Screw

No. 66202 for use in mounting 64532 and 64533 series tube clamps.

Bulk Supply and Feed Line Hose and Tubing

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>241110</td>
<td>Feed line bundling spiral wrap (10 ft. / 3 m length)</td>
</tr>
<tr>
<td>241120</td>
<td>Feed line bundling spiral wrap (20 feet / 6 m of spiral wrap)</td>
</tr>
<tr>
<td>241054</td>
<td>Nylon ties (100 count poly bag) 7&quot; / 177.8 m length</td>
</tr>
<tr>
<td>241055</td>
<td>Nylon ties (50 count poly bag) 7&quot; / 177.8 m length</td>
</tr>
<tr>
<td>241056</td>
<td>Nylon ties (25 count poly bag) 7&quot; / 177.8 m length</td>
</tr>
<tr>
<td>242125</td>
<td>Plastic grease fitting cap</td>
</tr>
<tr>
<td>274097</td>
<td>20 feet / 6 m of 3/8&quot; convoluted loom / split wrap</td>
</tr>
<tr>
<td>274098</td>
<td>20 feet / 6 m of 5/8&quot; convoluted loom / split wrap</td>
</tr>
<tr>
<td>274099</td>
<td>20 feet / 6 m of 5/8&quot; convoluted loom / split wrap</td>
</tr>
</tbody>
</table>
Our popular fitting models are packaged in a convenient 100 piece carton for your small order requirements. Order a quantity of one and receive 100 pieces of that fitting.

### 1/8” NPT

<table>
<thead>
<tr>
<th>100 Pc. Box No.</th>
<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000C</td>
<td>5000</td>
<td>Straight</td>
<td>2½/64&quot;</td>
</tr>
<tr>
<td>5003C</td>
<td>5003</td>
<td>Straight</td>
<td>1½&quot;</td>
</tr>
<tr>
<td>5200C</td>
<td>5200</td>
<td>45° angle</td>
<td>½&quot;</td>
</tr>
<tr>
<td>5300C</td>
<td>5300</td>
<td>65° angle</td>
<td>½½/64&quot;</td>
</tr>
<tr>
<td>5400C</td>
<td>5400</td>
<td>90° angle</td>
<td>2½/64&quot;</td>
</tr>
</tbody>
</table>

### 1/4” NPT

<table>
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<tr>
<th>100 Pc. Box No.</th>
<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050C</td>
<td>5050</td>
<td>Straight 1/4&quot; NPT</td>
<td>1½/64&quot;</td>
</tr>
<tr>
<td>5350C</td>
<td>5350</td>
<td>65° angle 1/4&quot; NPT</td>
<td>1½/64&quot;</td>
</tr>
</tbody>
</table>

### 1/4”-28 SAE

<table>
<thead>
<tr>
<th>100 Pc. Box No.</th>
<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5010C</td>
<td>5010</td>
<td>Straight–short thread</td>
<td>½&quot;</td>
</tr>
<tr>
<td>5013C</td>
<td>5013</td>
<td>Straight–long thread</td>
<td>1½/64&quot;</td>
</tr>
<tr>
<td>5527C</td>
<td>5527</td>
<td>Straight–short thread</td>
<td>3¼*</td>
</tr>
<tr>
<td>5210C</td>
<td>5210</td>
<td>45° angle–short thread</td>
<td>½&quot;</td>
</tr>
<tr>
<td>5410C</td>
<td>5410</td>
<td>90° angle–short thread</td>
<td>2½/64&quot;</td>
</tr>
</tbody>
</table>

### Metric

<table>
<thead>
<tr>
<th>100 Pc. Box No.</th>
<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5175C</td>
<td>5175</td>
<td>Straight</td>
<td>6mm</td>
</tr>
<tr>
<td>5176C</td>
<td>5176</td>
<td>45°</td>
<td>6mm</td>
</tr>
<tr>
<td>5177C</td>
<td>5177</td>
<td>90°</td>
<td>6mm</td>
</tr>
<tr>
<td>5178C</td>
<td>5178</td>
<td>Straight</td>
<td>8mm</td>
</tr>
<tr>
<td>5179C</td>
<td>5179</td>
<td>45°</td>
<td>8mm</td>
</tr>
<tr>
<td>5180C</td>
<td>5180</td>
<td>90°</td>
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<tr>
<td>5181C</td>
<td>5181</td>
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</tr>
<tr>
<td>5182C</td>
<td>5182</td>
<td>45°</td>
<td>10mm</td>
</tr>
<tr>
<td>5183C</td>
<td>5183</td>
<td>90°</td>
<td>10mm</td>
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### Button Head

<table>
<thead>
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<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>5701C</td>
<td>5701</td>
<td>½&quot; NPT(m) thread</td>
<td>½½/64&quot;</td>
</tr>
<tr>
<td>5706C</td>
<td>5706</td>
<td>¼&quot; NPT(m) thread</td>
<td>3/4*</td>
</tr>
</tbody>
</table>

### Drive-Type

<table>
<thead>
<tr>
<th>100 Pc. Box No.</th>
<th>Bulk No.</th>
<th>Description</th>
<th>Length</th>
<th>Drive Dia.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5033C</td>
<td>5033</td>
<td>Straight</td>
<td>½½/32&quot;</td>
<td>¾&quot;</td>
</tr>
<tr>
<td>5385C</td>
<td>5385</td>
<td>65° angle</td>
<td>1½½/32&quot;</td>
<td>¾&quot;</td>
</tr>
<tr>
<td>5031C</td>
<td>5031</td>
<td>Straight</td>
<td>3½/32&quot;</td>
<td>¾&quot;</td>
</tr>
</tbody>
</table>
Our standard bulk fittings are boxed in easy to handle cartons weighing approximately 30 pounds. The cartons are approximately 9"x9"x5". Order your fittings in these standard carton quantity increments to reduce your handling time.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Standard Box Quantity</th>
<th>Part No.</th>
<th>Standard Box Quantity</th>
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<tbody>
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<td>2000</td>
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<td>5000-1</td>
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<td>5410-9</td>
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<td>5000-9</td>
<td>2500</td>
<td>5505-9</td>
<td>1000</td>
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<td>1200</td>
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