G. L. Huyett

Your Original Source for Grease Fittings

HIGHEST QUALITY Grease Fittings

EST. 1906 MADE IN USA

G. L. HUYETT

Purveyors of a Way of Life™

Contact Information
Phone No.: 785.392.3017
Fax No.: 785.302.2845
Website: www.Huyett.com
G.L. Huyett is a low-overhead manufacturer, master distributor, and importer of non-threaded & engineered fasteners, grease fittings, & lifting hardware. Our corporate office is located just 50 miles from the geographic center of the United States. With multiple warehouse locations, we are two days shipping time from 60% of the country.

We were founded by a German immigrant over 100 years ago in a tin shed located in a place some call the Great American Desert. The experience of trying to work the land and make a life here has been formative to our culture and we are here to serve you.

G.L. Huyett has a complete machine shop and manufactures an array of non-threaded fasteners and special assemblies. Our manufacturing facility is equipped to make exotic material products in Monel™, Inconel™, Carpenter™ 20, and other alloys.

We serve our customers by reducing total costs through a combination of competitive sourcing, value-added services, and an inventory of more than 100,000 unique fasteners. We save our customers time and money by offering the opportunity to quote, order, ship, and receive a wide variety of parts on one purchase order.

We serve our partners by providing programs and opportunities to facilitate the achievement of business and professional goals. We have forged relationships with key manufacturers on a worldwide basis so that you can receive the benefit of global sourcing on standard items, and cost effective solutions on short run parts that are made right here in the USA.

We serve our employees by creating a work environment that is productive, exciting, and full of possibility. We help our employees meet their professional and personal goals through training programs, mentoring, and “employer of choice” pay and benefits.

We serve our community by working with organizations and individuals to create solutions for their local needs. We are committed to helping education, family-life, and local nonprofit organizations in a manner that improves quality of life.

With over 100,000 parts, and a complete machine shop to manufacture special orders, you can consolidate items normally purchased from multiple suppliers into one box.

- In stock orders ship next business day.
- Business hours: 7:00 a.m. to 5:00 p.m. CST, Monday thru Friday, and online 24/7.
- All parts ship from U.S. Locations, along with the “Pack List That Will Change Your Life.”

Who we are

What we do

How we do it

To learn more, visit huyett.com
**HERITAGE™**

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ABOUT THIS CATALOG

This grease fitting catalog is a combination of G.L. Huyett’s original grease fitting publications. We have created a one-stop-shop for everything grease fittings. In addition to all the technical information included to ensure you order the part you need, G.L. Huyett has provided informative and educational information about the product lines and unique parts. G.L. Huyett has included our Heritage™, Vanguard™ and Euro™ brand of grease fittings, as well as, Alemite®, Aerospace™ and Lincoln® sections. As you can see below, we have divided the sections by color for easy navigation.

NAVIGATING THIS CATALOG

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- British Thread
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- Available in Stainless
- Available in Monel®
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- Lincoln®
- John Deere®
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- Ford®
- Case IH®
- SAE International®
- Military Specification

**GUNS & ACCESSORIES**

- 3 Jaw Coupler
- 4 Jaw Coupler
- For Air/Battery Equip. (Also includes Hand Equip.)
- For Hand Equipment
- Cartridge Load
- Suction Load Capable
- Bulk Load Capable
- Variable Stroke
- Use with Air Supply
- Great for Toolboxes

*Product cross references do not imply that dimensions, performance and other characteristics represent an exact match. All specifications should be reviewed prior to purchase.*

For more information or to order, visit www.huyett.com

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PIPE THREAD BASICS

The following pages are a comprehensive guide to threads and their design. Our Thread Guide explains in detail: how to read a thread description, the difference between taper and parallel threads, common thread forms and much more. We hope this information will help you choose the best grease fitting for your application.

## DESIGNATION

The H1644 fitting is classified as a 1/8”-27 PTF Special Extra Short thread. This description can be broken down into three distinct segments in order to better understand its components.

### Thread Description:

1/8”-27 PTF SPL. EXTRA SHORT

---

### THREAD SERIES

Thread series is the thread “style” of a given grease fitting. There are many different thread series and each has specific attributes. For details on some of the most common thread series, see page 8.

---

### THREAD SIZE

Thread size is the nominal size of pipe that the fitting mates with. Originally, the size referred to the inside diameter of the pipe at a time when pipes had very thick walls. That is why a 1/8” pipe has a 0.393” actual outside diameter. Measure threads using the Thread Size Chart on the next page.

---

### THREAD PITCH

Thread pitch refers to the distance “peak-to-peak” of each thread. Threads grouped close together are considered to be “fine,” while threads that are spread out are “coarse.” See the bottom of the next page for more information.

---

## TAPER VS. PARALLEL

- Taper threads begin at the shank and taper in toward the end of the fitting and mate into tapered or parallel threaded holes.
- Parallel threads are straight from shank to the end of the fitting. Parallel threads mate with parallel threaded holes and seat on the shoulder as a screw would, providing a consistent installation height.

---

## SELF-SEAL VS. SEALANT

- Self-sealing pipe threads are designed to seal pressure-tight joints without the use of a sealing compound.
- Conversely, parallel type threads require the use of sealant to create a leak-proof seal. The sealant works as a joining agent between the parent material and the part itself.

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PIPE THREAD BASICS

Regrettably, pipe thread size designations have no connection to the part size because of how pipe sizing was conceived in the early 20th century. Use the size chart below for reference and see the next page for additional explanation.

THREAD SIZE CHART

IMPERIAL SIZE CHART

<table>
<thead>
<tr>
<th>Size</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-32 SAE-LT</td>
<td>0.18&quot; Dia.</td>
</tr>
<tr>
<td>1/4&quot;-28 SAE-LT</td>
<td>0.223&quot; Dia.</td>
</tr>
<tr>
<td>5/16&quot;-24 UNF</td>
<td>0.312&quot; Dia.</td>
</tr>
<tr>
<td>1/8&quot;-27 PTF</td>
<td>0.393&quot; Dia.</td>
</tr>
<tr>
<td>1/4&quot;-18 PTF</td>
<td>0.523&quot; Dia.</td>
</tr>
<tr>
<td>3/8&quot; PTF</td>
<td>0.648&quot; Dia.</td>
</tr>
<tr>
<td>1/2&quot; PTF</td>
<td>0.820&quot; Dia.</td>
</tr>
</tbody>
</table>

METRIC SIZE CHART

<table>
<thead>
<tr>
<th>Size</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td>6.0 mm</td>
</tr>
<tr>
<td>M8</td>
<td>8.0 mm</td>
</tr>
<tr>
<td>M10</td>
<td>10.0 mm</td>
</tr>
<tr>
<td>M12</td>
<td>12.0 mm</td>
</tr>
<tr>
<td>M14</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>M16</td>
<td>16.0 mm</td>
</tr>
</tbody>
</table>

THREAD TERMS

- **Truncation** - Material removed from the theoretical V-thread triangle of the thread form.
- **Crest** - Highest point of a thread, opposite the root.
- **Root** - The lowest point of a thread, opposite the crest.
- **Flank** - Thread portion joining the thread root and crest.
- **Angle** - The angle between the adjacent thread flanks.

THREAD PITCH

- When describing thread pitch, Imperial and British standards call out threads per inch. Metric standards specify thread pitch in millimeters.
- **Threads per inch** - number of complete threads that are on a fitting in exactly one inch.
- **Metric** - distance from one thread to the next measured from corresponding points.

**Metric Thread Description:**

<table>
<thead>
<tr>
<th>Series</th>
<th>Size</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8</td>
<td>1.0</td>
<td>1.0 mm</td>
</tr>
</tbody>
</table>

**Imperial Thread Designation**

(THREADS PER INCH)

TO FIGURE THE THREAD PITCH OF AN IMPERIAL (OR BRITISH) FITTING, TAKE THE NUMBER OF THREADS PER INCH AND DIVIDE BY THAT NUMBER.

**Example:**
A 1/8"-27 thread designation has 27 threads in one inch.

1 divided by 27 equals 0.037"

**Metric Thread**

(COARSE & FINE)

**Pitch of 1.0 mm (NOT TO SCALE)**

The thread pitch on a metric fitting is called out in the description. For example, a M8 x 1.0 fitting has a thread pitch of 1.0 millimeters. Threads per inch are not relevant in metric fittings.

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SAE STANDARD

SAE-LT threads are a common taper thread which are used primarily on grease fittings. This thread form is a modification of the standard 1/4"-28 UNF thread and is intended to thread into a parallel 1/4"-28 UNF-3B hole with a maximum minor diameter of 0.215" if a 75% minimum thread height is to be maintained. This thread type will seal heavy lubricants without the aid of thread sealant.

SAE-LT THREADS ARE OFTEN GENERALLY REFERRED TO AS "TAPER THREAD."

AMERICAN STANDARD

American Standard Threads were adopted by the American Standards Association (ASA) in 1921. Unlike many other threads, American Standard Thread sizes are confusing by the fact that the thread designation is based off nominal pipe sizes and does not refer to any physical dimension. For example, a 1/4"-18 NPTF fitting does not have an inside or outside diameter of 1/4". This is because, during the early days of manufacturing, pipes (which were measured by inside diameter) were made much thicker than they are today resulting in 1/4" pipes no longer measuring 1/4". External thread physical dimensions remained unchanged and retained their old 1/4" thread designations. These threads are designated with a nominal internal pipe size followed by a thread count, i.e. 1/4"-18. FULL THREADS.

VARIENTS OF THE NPTF THREAD PROFILE

PTF-SAE Short: Identical to NPTF threads, but the thread length has been reduced by eliminating one full thread from the small end of male threads or the large end on female threads. - MINUS 1 THREAD

PTF-Special Short: Identical to PTF-SAE Short threads, but with one thread removed from the large end of male threads or the small end of female threads. - MINUS 1 THREAD

PTF-Special Extra Short: Identical to PTF-SAE Short threads, but with two threads removed from the large end of male threads or the small end of female threads. - MINUS 2 THREADS

SAE-THREAD FORMING

Society of Automotive Engineers

• Taper Thread
• Self-sealing

• 1/4"-28 SAE-LT is the most common thread size in the automotive industry. These fittings are also used on industrial machines and many other standard duty applications.

NPTF A.K.A. PTF

AMERICAN STANDARD PIPE THREAD

• Taper Thread
• Self-sealing

• These dryseal threads are specially designed to form a leak-free seal without the use of thread sealant. The seal is created by controlling truncation at the crest and root of NPT form threads to allow for an interference fit, closing the pathway and preventing spiral leakage. Please see below for the four main variations on NPTF threads.

NPT

AMERICAN STANDARD PIPE THREAD

• Taper Thread
• Thread sealant recommended

• National Pipe threads are designed to thread into each other. In most cases there will be no interference between the root and crest of the threads at assembly. NOTE: NOT ALL AMERICAN STANDARD THREADS ARE NPT.

NPSM

AMERICAN STANDARD PIPE THREAD

• Parallel Thread
• Thread sealant recommended

• While not a dryseal type thread, National Pipe Straight (parallel) Mechanical threads will seal when paired with an NPTF male fitting. The following pages are a comprehensive guide to threads and their design. Please contact our engineering team at engineering@huyett.com with additional questions.
A thread is defined as a ridge wrapped around a cylinder or cone in the form of a helix. Threads can be tapered or straight, male or female.

**UNIFIED NATIONAL**

In 1949, the American National Standard (ANS) was made obsolete and was replaced with the Unified National Standard (UNS) in an effort to increase interchangeability between American, Canadian and British threads. Every effort was made to ensure that the threads made to the new UNS standard would mate with threads made to the obsolete ANS standard. Manufacturers were instructed to update all existing drawings to comply with the new standard. It is common to still see ANS thread types referenced. These threads are designated by a thread diameter followed by a thread count, i.e. 1/4”-28.

**VARIATIONS OF THE UNS THREAD PROFILE**

UNS: Unified National Special diameter thread is an umbrella thread form which covers those thread forms which existed under the ANS standard, but which do not fit into any other category.

"NS" TAPER: NS Taper threads are a unique fine thread which was developed specifically for pneumatic lubricant delivery systems.

**FOREIGN STANDARD**

Many thread standards exist outside the U.S., the most common are detailed below. Metric threads are denoted by an M (for standard threads) or an S (for thread forming threads) which are proceeded by a pitch diameter, followed by a thread pitch (mm), i.e. M8×1.5 or S6×1.0. Traditionally, if no thread pitch is identified, it is understood to be 1.0. British threads are denoted by a nominal internal pipe size, followed by a thread pitch (tpi), i.e. 1/4”-29.

**ISO METRIC**

ISO Metric threads were one of the first international standards agreed upon when the International Organization for Standardization was created in 1947.

**METRIC - THREAD FORMING**

Metric Thread Forming threads (S) perform similar to American thread forming versions, but metric threads have a much wider 105° thread angle.

**BRITISH A.K.A. WHITWORTH**

British threads, also known as Whitworth threads, encompass several distinct variations including fine, course and pipe threads.
The purpose of this section is to familiarize you with the basic aspects of the SAE J534 or Surface Vehicle Standard, (last revised in May 2008). The specification standard covers “complete general and dimensional specifications for the various types of lubrication fittings and related threaded components intended for general application in the automotive and allied fields.” Upon closer examination one could conclude that the standard is influenced by the competing interests of various manufacturers. Designs are not necessarily uniform dimensionally. For example, there are three nipple designs which can pose some grease gun coupler compatibility issues in high volume applications. In this section, G.L. Huyett defines the interpretations of the standard. We hope that you gain a greater appreciation for the quality of our G.L. Huyett brand grease fittings.

The three nipple designs, shown to the right, are approved. They are manufactured within a tolerance of +/- 0.012”.

Grease fitting nipples are hardened to provide additional strength and to minimize wear from repeated contact with the jaws of a grease gun coupler during use.

Per SAE J534: “External threads may have greater maximum truncation due to manufacturing practices.” Truncation of threads minimizes damage during assembly and shipment, but can create interpretive challenges during inspection. For more information on the thread specifications see pages 6-9.
MANUFACTURING

Grease fittings are often sold through logistical management and so-called “Class C” component distributors. The parts are often treated in the same manner as fasteners. The reality is that a grease fitting is a working mechanical device and thus the finished threads are different than those for a nut, bolt or screw. The Heritage™, Vanguard™ and Euro™ lines of grease fittings in this catalog conform to the important SAE J534 standard, where it applies.

**PRODUCTION**

1. **TURNED**
   Fittings are turned, including threads.

2. **HEAT TREATED**
   Only the nipple is hardened.

   **PLEASE NOTE**
   Threads are hardened on thread forming fittings.

3. **PLATED**
   Zinc trivalent plating is typically specified because of its added corrosion resistance and environmentally friendly processing.

4. **ASSEMBLED**
   Ball check and spring along with any other critical pieces are inserted and the lip is rolled to secure internal parts.

**INSPECTION**

1. **HEAT TREATMENT**
   We use destructive testing with a micro-hardness tester. We use this method of testing over standard Rockwell testing because it can break through the case depth, showing a false result.

2. **PLATING THICKNESS**
   We inspect on a flat spot, such as on the hex. Spot tests can render bad results for complicated forms, where plating can build up in corners, or where parts are “bruised” in assembly.

3. **PLATING PERFORMANCE**
   Our salt spray test measures function and is far more reliable than other manufacturing testing in most applications.

4. **PRESSURE TEST**
   The pressure test checks to ensure grease fittings will not blow out before specified range. Although, SAE J534 does NOT require a pressure test, we perform this test to ensure quality.
SUPERIOR FIT, FORM & FUNCTION

The Huyett Heritage™ grease fitting line is the broadest line offered anywhere and is designed to meet the most exacting standards. The Vanguard™ line provides Heritage™ quality in non-corrosive versions that can weather severe environmental extremes. All of these fittings meet the SAE J534 specifications for design and performance, and SAE J476 for threads. The Euro™ line provides Heritage™ quality in metric, British and European thread types. The Euro™ line meets DIN standards in nearly all applications. All of these lines are suitable for all original equipment applications, and conform to many user-specific designs, including the John Deere™ series in agriculture.

CRAFTSMANSHIP

PRECISE NIPPLE PROFILE
- Controlled within +/- 0.001" (12 times more precise than SAE J534 tolerance)

CONCENTRIC PROFILE
- Perfectly concentric head design
- Ball is concentric within 1 micron (0.00004")

PLATING
- Exceeds ASTM B117
- 72 hour Salt Spray Test
- Available in RoHS compliant trivalent plating

ROLLED THREADS
- Cold worked for added strength
- Stronger than cut threads

ASSEMBLY
- Automated assembly

PROCESS CONTROL

Our grease fittings are case hardened in sealed quench furnaces with complete atmospheric control. This eliminates scaling and ensures perfect control of case depth (0.005" - 0.009"). Hardness is controlled to a minimum of 83 on the Rockwell 15N scale.

INTENSITY

Automated assembly allows precise control of entire process. The ball check is inserted first followed by the spring. Then the lip is formed to hold components in place. Once assembly is complete, the fitting moves on to be tested for integrity and reliability.

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QUALITY ASSURANCE

Heritage™, Vanguard™ and Euro™ fittings are tested to the highest standards. Testing includes automated inspection for ball checks, load testing for harsh environments and performance testing for reliability in the field.

INSPECTION

We use optical inspection to ensure that no grease fitting leaves the facility without a properly installed ball check.

TESTING

Grease fittings are subjected to an impact test which simulates the abuse fittings may encounter in the field. This test ensures proper strength and hardness of the nipple.

PERFORMANCE TESTING

OPENING PRESSURE TEST

Ensures the ball check and spring will operate properly by opening at a pressure less than 435 psi max, which is consistent with commercially practical and safe practices.

BACK PRESSURE TEST

Ensures the ball check will remain seated and that the fitting will not allow excessive leakage as pressure accumulates. 900 psi is the minimum pressure at which leakage could occur for standard fittings. Special leak-proof designs can withstand pressures up to 10,000 psi.

OPERATING PRESSURE TEST

The " Blowout" test determines the maximum operating pressures that the fitting can withstand without damage to the spring, ball, and fitting body. The testing apparatus is pressurized to 8,000 psi and is released at once.

Performance testing ensures reliability of our grease fittings in the field.

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1/4"-28 SAE-LT

1/4"-28 SAE-LT is the most common thread size in the automotive industry. These fittings are also used on industrial machines and for many other standard-duty applications. 1/4"-28 SAE-LT grease fittings install into 1/4"-28 UNF straight threaded holes. For more details on this thread series, refer to the Thread Guide on pages 6-9.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (P)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1641Z3 1/4&quot;-28 Straight</td>
<td>.54&quot;</td>
<td>.18&quot;</td>
<td>.10&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>5/16&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H1641NZ3 1/4&quot;-28 Straight</td>
<td>.54&quot;</td>
<td>.18&quot;</td>
<td>.10&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>5/16&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H240646 1/4&quot;-28 Straight</td>
<td>.48&quot;</td>
<td>.16&quot;</td>
<td>.10&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>5/16&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

WHAT WE CAN DO FOR YOU

Our Machine Shop will modify bolts & other fasteners for your specific application. The application shown here is commonly found on trailer spring shackles.

Common Parts

- Parts with this designation are in wide distribution.
- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

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Extended shank lengths are suited for deep seated bearings, or where materials are exceedingly thick. The extended shank allows for the placement of fittings into recessed areas. 1/4"-28 SAE-LT threads are also referred to as 1/4"-28 taper threads.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1652Z3</td>
<td>1/4&quot;-28 Straight</td>
<td>.69&quot;</td>
<td>.34&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H1680Z3</td>
<td>1/4&quot;-28 Straight</td>
<td>.92&quot;</td>
<td>.60&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H1698Z3</td>
<td>1/4&quot;-28 Straight</td>
<td>1.12&quot;</td>
<td>.81&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H3014Z3</td>
<td>1/4&quot;-28 Straight</td>
<td>1.64&quot;</td>
<td>1.00&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

**COUPLERS**

Our complete line begins on page 118
Angled fittings are often necessary to allow for maintenance in confined areas, such as on industrial machinery. G.L. Huyett offers angled grease fittings in different degrees to fit your individual need. 1/4"-28 SAE-LT grease fittings have threads that taper toward the end of the shank. When installed, the threads compress into the mated assembly, thus forming a tight seal.

### Technical Specifications

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread Length</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>H1637Z3</td>
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<td>45°</td>
<td>.82&quot;</td>
<td>.20&quot;</td>
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<td>3/8&quot;</td>
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<td>45°</td>
<td>.94&quot;</td>
<td>.30&quot;</td>
<td>.20&quot;</td>
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<td>.25&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
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<tr>
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<td>65°</td>
<td>.78&quot;</td>
<td>.30&quot;</td>
<td>.20&quot;</td>
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<td>.25&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
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<tr>
<td>H369575</td>
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<td>65°</td>
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<td>.31&quot;</td>
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<td>.66&quot;</td>
<td>.25&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

### Additional Information

- **Visit your Account Order History at** huyett.com to download Free Material, Compliance, and RoHS/REACH Certifications along with:
  - Order Status
  - Expected Ship Date
  - Order Tracking Info
  - Your Favorites

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A common sight on automobile chassis, 90° angle fittings are often used when overhead access is impractical. As with all angled fittings, care should be taken to ensure proper orientation of the greasing nipple to the access point.

### Technical Drawings

**H1911Z3**
- **90° Angle**
- **1/4"-28 Taper Thread**
- **Standard Shank**

**H1911NZ3**
- **90° Angle**
- **1/4"-28 Taper Thread**
- **Short Shank**

**H1970Z3**
- **90° Angle**
- **1/4"-28 Taper Thread**
- **Long Shank**

**H700259**
- **90° Angle**
- **1/4"-28 Taper Thread**
- **Short Shank**

#### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
---|---|---|---|---|---|---|---|---|---
**H1911Z3** | 1/4"-28 | 90° | .75" | .20" | .10" | .66" | .25" | .47" | 3/8"  
**H1911NZ3** | 1/4"-28 | 90° | .75" | .20" | .10" | .68" | .25" | .49" | 3/8"  
**H1970Z3** | 1/4"-28 | 90° | .80" | .30" | .22" | .69" | .25" | .50" | 3/8"  
**H700259** | 1/4"-28 | 90° | .75" | .16" | .10" | .66" | .25" | .47" | 3/8"

---

**Thread sealant is automatically added on most designs, yielding a leak-free performance.**
1/8"-27 PTF

The larger, stronger threads found on these parts are suited for industrial uses, in agriculture and on construction equipment. Visit our Thread Guide on pages 6-9 for more details. The H1958Z3, popular for use on water pumps, includes a cap that screws on and off for servicing.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>.56&quot;</td>
<td>.23&quot;</td>
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<td>7/16&quot;</td>
</tr>
<tr>
<td>H1610Z3</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.66&quot;</td>
<td>.28&quot;</td>
<td>.18&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1609Z3</td>
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<td>Straight</td>
<td>.75&quot;</td>
<td>.34&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
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<tr>
<td>H1610NZ3</td>
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<td>.66&quot;</td>
<td>.28&quot;</td>
<td>.18&quot;</td>
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<td>.39&quot;</td>
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<tr>
<td>H1958Z3</td>
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<td>.19&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

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1/8"-27 PTF pipe threads, which have 27 threads per inch, are sometimes generically referred to as 1/8" NPT, and may be threaded into NPT and NPTF threaded holes. Thread sealant is recommended for use with NPT threaded holes. The primary difference between the HA1684 and H1684Z3 is the hex size.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.22&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
<td></td>
</tr>
<tr>
<td>H1669Z3</td>
<td>1/8&quot;-27 Straight</td>
<td>1.75&quot;</td>
<td>1.28&quot;</td>
<td>.22&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
<td></td>
</tr>
<tr>
<td>HA1684</td>
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<td>2.62&quot;</td>
<td>2.16&quot;</td>
<td>.22&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>3/8&quot;</td>
<td></td>
</tr>
<tr>
<td>H1684Z3</td>
<td>1/8&quot;-27 Straight</td>
<td>2.62&quot;</td>
<td>2.16&quot;</td>
<td>.22&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Common Parts
Parts with this designation are in wide distribution.

Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.

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Angled fittings are often found on industrial machinery where maintenance in confined areas is a necessity. G.L. Huyett offers a variety of angles to fit your individual need. 1/8"-27 PTF fittings have threads that taper toward the end of the shank. When installed, the threads compress into the mated assembly, thus forming a tight seal.

### Technical Drawings

**H1611Z3**
- **30° Angle**
- **1/8"-27 PTF Spl. Extra Short Standard Shank**

**H1638Z3**
- **30° Angle**
- **1/8"-27 PTF Spl. Short Extra Long Shank**

**H1689Z3**
- **45° Angle**
- **1/8"-27 PTF Spl. Short Standard Shank**

**H1688Z3**
- **45° Angle**
- **1/8"-27 PTF Spl. Short Standard Shank**

### Technical Specifications

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Shank Length</th>
<th>Min. Thread Length</th>
<th>Overall Width</th>
<th>Thread Diameter</th>
<th>Swing Clearance</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1611Z3</td>
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<td>30°</td>
<td>.90&quot;</td>
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<td>.22&quot;</td>
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<td>7/16&quot;</td>
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<td>H1638Z3</td>
<td>1/8&quot;-27</td>
<td>30°</td>
<td>2.09&quot;</td>
<td>1.25&quot;</td>
<td>.22&quot;</td>
<td>.56&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
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<td>.22&quot;</td>
<td>.62&quot;</td>
<td>.39&quot;</td>
<td>.46&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1688Z3</td>
<td>1/8&quot;-27</td>
<td>45°</td>
<td>1.07&quot;</td>
<td>.28&quot;</td>
<td>.22&quot;</td>
<td>.62&quot;</td>
<td>.39&quot;</td>
<td>.46&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

*Available in Stainless*
*Available in Monel®*
1/8\(^\text{"}\)-27 PTF fittings are used in heavy-duty commercial and industrial environments where limited access and possible overhead interference may cause accessibility issues. In this application and similar cases, fittings often require attention to orientation during installation.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
<td>H1612Z3</td>
<td>1/8(^\text{&quot;})-27</td>
<td>65(^\circ)</td>
<td>.86*</td>
<td>.30*</td>
<td>.22*</td>
<td>.72*</td>
<td>.39*</td>
<td>.50*</td>
<td>7/16(^\circ)</td>
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<td>H369608</td>
<td>1/8(^\text{&quot;})-27</td>
<td>65(^\circ)</td>
<td>.91*</td>
<td>.28*</td>
<td>.19*</td>
<td>.73*</td>
<td>.39*</td>
<td>.51*</td>
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<tr>
<td>H1623Z3</td>
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<td>65(^\circ)</td>
<td>1.18*</td>
<td>.54*</td>
<td>.25*</td>
<td>.72*</td>
<td>.39*</td>
<td>.50*</td>
<td>7/16(^\circ)</td>
</tr>
<tr>
<td>H1649Z3</td>
<td>1/8(^\text{&quot;})-27</td>
<td>65(^\circ)</td>
<td>2.76*</td>
<td>2.24*</td>
<td>.19*</td>
<td>.66*</td>
<td>.39*</td>
<td>.47*</td>
<td>3/8(^\circ)</td>
</tr>
</tbody>
</table>
The 90° angle design is used in applications with overhead interference. The dual nipples on the H2X369574 allow for multiple access points.

### Design Feature

Grease fittings with dual greasing nipples provide multiple access points. This is important on applications such as universal joints, where moving parts change fitting orientation.

### Common Parts

Parts with this designation are in wide distribution.

### Grease Fittings

Grease fittings with dual greasing nipples provide multiple access points. This is important on applications such as universal joints, where moving parts change fitting orientation.

### Technical Drawings

Technical Drawings are Approximate Actual Size.

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### Designs

Designs are approximate actual size.

### Parts

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REVISED 03-19
Female threads allow the fitting to be threaded onto a pipe or used as a nut for component assembly. The H1620Z3 possesses a square primary body, as opposed to a hexagon, but is a one-piece design. The H1618Z3 and H1622Z3 are two-piece designs.

### Item # Thread Angle Overall Shank Min. Thread Overall Thread Swing Hex
<table>
<thead>
<tr>
<th>Thread</th>
<th>Angle</th>
<th>Length</th>
<th>Length</th>
<th>Length</th>
<th>Width</th>
<th>Diameter</th>
<th>Clearance</th>
<th>(H)</th>
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<tr>
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<td>1.00&quot;</td>
<td>.31&quot;</td>
<td>.28&quot;</td>
<td>—</td>
<td>.34&quot;</td>
<td>—</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>H1620Z3</td>
<td>1/8&quot;-27 45°</td>
<td>1.13&quot;</td>
<td>.39&quot;</td>
<td>.28&quot;</td>
<td>.64&quot;</td>
<td>.34&quot;</td>
<td>.33&quot;</td>
<td>7/16&quot; sq.</td>
</tr>
<tr>
<td>H1622Z3</td>
<td>1/8&quot;-27 90°</td>
<td>1.25&quot;</td>
<td>.41&quot;</td>
<td>.28&quot;</td>
<td>.66&quot;</td>
<td>.34&quot;</td>
<td>.41&quot;</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

### Consider This

**Good**

Angled fittings often require orientation to the intended greasing point.

**Bad**

Common Parts

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1/4"-18 PTF fittings, which have 18 threads per inch, are used in large bearings on heavy machinery such as mining equipment and trucks. They are well suited for cold weather environments and for use with heavy lubricants.

---

**H1627Z3**
Straight
1/4"-18 PTF SAE Short
Standard Shank

**H1645Z3**
45° Angle
1/4"-18 NPTF
Standard Shank

**H1629Z3**
65° Angle
1/4"-18 PTF Spl. Extra Short
Standard Shank

**H1690Z3**
90° Angle
1/4"-18 PTF SAE Short
Standard Shank

---

### Dimensions

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
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<td>.45&quot;</td>
<td>.34&quot;</td>
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<td>.52&quot;</td>
<td>—</td>
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<td>.30&quot;</td>
<td>.65&quot;</td>
<td>.52&quot;</td>
<td>.37&quot;</td>
<td>9/16&quot;</td>
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<tr>
<td>H1629Z3</td>
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<td>.97&quot;</td>
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<td>.28&quot;</td>
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<td>.72&quot;</td>
<td>.52&quot;</td>
<td>.44&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

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**John Deere®** John Deere® is a registered trademark of Deere and Company, Moline, Illinois.
**3/8"-18 PTF**

3/8"-18 PTF fittings, also known as 3/8" NPTF, which have 18 threads per inch, are typically used only in very heavy-duty applications, such as on rock crushers and mineral extraction equipment. In such applications, button head fittings are more often recommended due to their relative resistance to damage, see pages 42-45.

**Common Parts**

Parts with this designation are in wide distribution.

**3/8"-18 PTF fittings**

- **H1714Z3**
  - Straight
  - 3/8"-18 PTF Spl. Extra Short
  - Standard Shank

- **H1715Z3**
  - 45° Angle
  - 3/8"-18 PTF Spl. Short
  - Standard Shank

- **H1716Z3**
  - 90° Angle
  - 3/8"-18 PTF Spl. Short
  - Standard Shank

**Item #**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.31&quot;</td>
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<td>.64&quot;</td>
<td>—</td>
<td>3/4&quot;</td>
<td></td>
</tr>
<tr>
<td>H1715Z3</td>
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<td>.22&quot;</td>
<td>.87&quot;</td>
<td>.64&quot;</td>
<td>.53&quot;</td>
<td>17.0 mm</td>
<td></td>
</tr>
<tr>
<td>H1716Z3</td>
<td>3/8&quot;-18 90°</td>
<td>.79&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>1.06&quot;</td>
<td>.64&quot;</td>
<td>.73&quot;</td>
<td>17.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

**CONSIDER THIS...**

**CONVENTIONAL STYLE**

Debris can damage nipples in extremely harsh environments.

**BUTTON HEAD STYLE**

Use a button head fitting in extreme environments where there is a risk of damage, see pages 42-45.
Parallel threads are often called special threads because they are not covered in SAE J534. Please note: the nipple design is covered by SAE J534. Parallel threaded fittings are not self-sealing like tapered threads, but do thread into standard screw-thread housings. Smaller, finer threads are for use in light-duty applications where conservation of space is a primary concern.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
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<td>.12&quot;</td>
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<td>.13&quot;</td>
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<td>1/4&quot;</td>
</tr>
<tr>
<td>H369616</td>
<td>10-32 UNF</td>
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<td>.12&quot;</td>
<td>.08&quot;</td>
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<td>.18&quot;</td>
<td>—</td>
<td>1/4&quot;</td>
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<td>H3016Z3</td>
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<td>.50&quot;</td>
<td>.12&quot;</td>
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<td>—</td>
<td>.18&quot;</td>
<td>—</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

Parallel threads seat on the shoulder as a screw would, providing consistently installed heights. Taper threads do not seat flush, leaving some threads exposed and resulting in less consistently installed heights.

Special note on parallel threads: Parallel threads require the use of thread sealant for a leak-proof seal, and although the nipple design meets SAE J534 specifications, the thread type does not.
1/4"-28 PARALLEL

1/4"-28 UNF parallel threaded fittings apply to similar applications as 1/4"-28 taper fittings because they thread into the same 1/4"-28 UNF threaded hole. For best results, the use of thread sealant is recommended. The H201601 has a precision shank length for close tolerance bearing housings.

**Common Parts**

- **Alemite®**: Alemite, LLC, Johnson City, TN, USA
- **Lincoln Industrial®**: Lincoln Industrial (USA) Corp.
- **John Deere®**: John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>H1792Z3</td>
<td>1/4&quot;-28 Straight</td>
<td>.48&quot;</td>
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<td>.22&quot;</td>
<td>.18&quot;</td>
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<tr>
<td>H1770Z3</td>
<td>45° Angle</td>
<td>.61&quot;</td>
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<td>.08&quot;</td>
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<td>.25&quot;</td>
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<td>3/8&quot;</td>
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<tr>
<td>H369609</td>
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<td>.44&quot;</td>
<td>.13&quot;</td>
<td>.12&quot;</td>
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<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
<td></td>
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<tr>
<td>H333330</td>
<td>1/4&quot;-28 Straight</td>
<td>.53&quot;</td>
<td>.19&quot;</td>
<td>.12&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>
Extra fine threads, like those found on 5/16"-32 parallel threaded fittings, offer added thread engagement in thin materials. As with all parallel threads, thread sealant is recommended for a truly leak-free performance.

### H1711Z3
- **Straight**
- **5/16"-24 UNF**
- **Short Shank**

### H1712Z3
- **45° Angle**
- **5/16"-24 UNF**
- **Standard Shank**

### H1713Z3
- **90° Angle**
- **5/16"-24 UNF**
- **Standard Shank**

### H1631Z3
- **Straight**
- **5/16"-32 UNEF**
- **Standard Shank**

### H1648Z3
- **65° Angle**
- **5/16"-32 UNEF**
- **Short Shank**

#### Item #  Thread  Angle  Overall Length  Shank Length  Min. Thread Length  Overall Width  Thread Diameter  Swing Clearance  Hex

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Shank Length</th>
<th>Min. Thread Length</th>
<th>Overall Width</th>
<th>Thread Diameter</th>
<th>Swing Clearance</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1711Z3</td>
<td>5/16&quot;-24 Straight</td>
<td>.66&quot;</td>
<td>.20&quot;</td>
<td>.12&quot;</td>
<td>—</td>
<td>.31&quot;</td>
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<td>3/8&quot;</td>
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<tr>
<td>H1712Z3</td>
<td>5/16&quot;-24 45°</td>
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<td>3/8&quot;</td>
<td></td>
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<tr>
<td>H1713Z3</td>
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<td>.71&quot;</td>
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<td>.75&quot;</td>
<td>.31&quot;</td>
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<td>3/8&quot;</td>
<td></td>
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<tr>
<td>H1631Z3</td>
<td>5/16&quot;-32 Straight</td>
<td>.66&quot;</td>
<td>.22&quot;</td>
<td>.17&quot;</td>
<td>—</td>
<td>.31&quot;</td>
<td>—</td>
<td>3/8&quot;</td>
<td></td>
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<tr>
<td>H1648Z3</td>
<td>5/16&quot;-32 65°</td>
<td>.63&quot;</td>
<td>.13&quot;</td>
<td>.11&quot;</td>
<td>.70&quot;</td>
<td>.31&quot;</td>
<td>.52&quot;</td>
<td>3/8&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**PLEASE NOTE**

Thread sealant is recommended for a truly leak-free performance.

---

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Large diameter parallel threaded fittings, though not as common as their taper threaded counterparts, are just as strong as taper threaded grease fittings. The parallel threads seat flush on the shoulder as a screw would, providing consistently installed heights.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.24&quot;</td>
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<td>.37&quot;</td>
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<td>7/16&quot;</td>
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<tr>
<td>H1709Z3</td>
<td>3/8&quot;-24</td>
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<td>.22&quot;</td>
<td>.15&quot;</td>
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<td>.37&quot;</td>
<td>.45&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>H1708Z3</td>
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<td>90°</td>
<td>.79&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.76&quot;</td>
<td>.37&quot;</td>
<td>.55&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1740Z3</td>
<td>1/2&quot;-20</td>
<td>45°</td>
<td>.89&quot;</td>
<td>.26&quot;</td>
<td>.15&quot;</td>
<td>.75&quot;</td>
<td>.49&quot;</td>
<td>.47&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

### DESIGN FEATURE

**TAPER THREADS**

- Taper threads run diagonal to mating material.

**PARALLEL THREADS**

- Parallel threads run parallel to mating material.

---

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AUTOMATIC INSTALLATION

There are two types of automatic installation fittings — “Thread Forming” and “Drive Type.” Thread forming grease fittings have hardened tapered threads for “creating” threads in an untapped hole. “Drive Type” fittings have circumferential serrations that form to create a leak-proof seal.

**Thread Forming**

Thread forming fittings have hardened threads and can be spun or pounded into a hole. Spinning is the preferred method for installation as the hardened threads displace material instead of removing it. This provides an extremely tight seal.

**Drive Type**

Drive type fittings can have a serrated shank or a plain, smooth shank. Typical installation requires driving or pounding the fitting into a drilled, un-tapped hole. Drive type fittings are not recommended for high pressure applications.

**Installation**

Both thread forming and drive type fittings are designed in such a way that make them ideal for use with vibratory bowls and feeding tubes in assembly line production systems.

Assembly line production systems can greatly decrease production times and reduce costs.
AUTOMATIC INSTALLATION

Reduce installation costs and complementary manufacturing costs by modifying your assembly application to use automatic installation fittings.

CHEAPER TO ASSEMBLE

Automatic installation fittings only require a hole to be drilled for installation thus making them a cheap and easy solution compared to other grease fittings which require a drilled and tapped hole. Conventional tapping methods require more time for tool change and secondary operations.

CHEAPER TO INSTALL

In addition to manufacturing costs savings, automatic installation fittings can save on installation costs. It takes less time to simply pound a part into a hole, as opposed to turning a part.

The recommended process of installation for thread forming fittings is to spin in. Drive type fittings simply need to be driven in using a drive tool and hammer.

PRE-TESTING

Before a new installation, test drill hole in sample material. Fitting is to fit firmly without causing damage or conversely, being too loose. Desired hole sizes will vary with material. Please take into consideration production tolerances.

The drill sizes provided in this catalog are approximations only. The exact drill size may vary with your application and material.

SAE and G.L. Huyett recommend testing prior to the introduction of these fittings into any application. Drive type fittings are not recommended for high-pressure applications.

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Thread forming fittings, also known as spin-drive, are ideal for high volume, assembly line applications. Thread forming threads are made out of case hardened steel. These fittings are designed to be installed by being driven or threaded into an untapped hole, thus eliminating the costly process of tapping. For more information on this increasingly popular thread series, see pages 30-31.

**H3038Z3**
Straight
1/4"-28 Thread Forming
Standard Shank

**H3053Z3**
45° Angle
1/4"-28 Thread Forming
Standard Shank

**H3054Z3**
90° Angle
1/4"-28 Thread Forming
Standard Shank

**H369582**
Straight
1/4"-28 Thread Forming
Short Shank

**H369584**
Straight
1/4"-28 Thread Forming
Long Shank

---

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | ---
H3038Z3 | 1/4"-28 | Straight | .55" | .19" | .10" | — | — | 5/16"
H3053Z3 | 1/4"-28 | 45° | .81" | .19" | .10" | .58" | .39" | 3/8"
H3054Z3 | 1/4"-28 | 90° | .75" | .19" | .16" | .66" | .47" | 3/8"
H369582 | 1/4"-28 | Straight | .51" | .15" | .12" | — | — | 9/32"
H369584 | 1/4"-28 | Straight | .97" | .63" | .21" | — | — | 5/16"

**NOTE**: 1/4"-28 APPROXIMATE HOLE SIZE 0.230-0.235"
Installing thread forming fittings eliminates the time and cost associated with conventional tapping methods and forms stronger, cold worked threads in the process. Standard 1/4”-28 taper or 1/8” PTF fittings may be utilized when a fitting replacement is necessary.

**H1720Z3**
Straight
1/8”-27 Thread Forming
Standard Shank

**H1724Z3**
45° Angle
1/8”-27 Thread Forming
Standard Shank

**H1723Z3**
90° Angle
1/8”-27 Thread Forming
Standard Shank

**H369579**
Straight
1/8”-27 Thread Forming
Long Shank

**H1721Z3**
30° Angle
1/8”-27 Thread Forming
Standard Shank

**H1722**
65° Angle
1/8”-27 Thread Forming
Standard Shank

### Technical Drawings are Approximate Actual Size

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1720Z3</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>.62”</td>
<td>.24”</td>
<td>.14”</td>
<td>—</td>
<td>—</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1724Z3</td>
<td>1/8”-27</td>
<td>45°</td>
<td>.92”</td>
<td>.20”</td>
<td>.14”</td>
<td>.62”</td>
<td>.40”</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1723Z3</td>
<td>1/8”-27</td>
<td>90°</td>
<td>.76”</td>
<td>.20”</td>
<td>.14”</td>
<td>.72”</td>
<td>.50”</td>
<td>7/16”</td>
</tr>
<tr>
<td>H369579</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>.70”</td>
<td>.32”</td>
<td>.21”</td>
<td>—</td>
<td>—</td>
<td>7/16”</td>
</tr>
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<td>H1721Z3</td>
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<td>30°</td>
<td>.91”</td>
<td>.19”</td>
<td>.14”</td>
<td>.56”</td>
<td>.34”</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1722</td>
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<td>65°</td>
<td>.78”</td>
<td>.21”</td>
<td>.17”</td>
<td>.72”</td>
<td>.50”</td>
<td>7/16”</td>
</tr>
</tbody>
</table>

**NOTE: 1/8”-27 APPROXIMATE HOLE SIZE 0.373-0.380”**

Common Parts
Parts with this designation are in wide distribution.

Alemite®
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Lincoln Industrial®
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Like thread forming fittings, drive type fittings have an advantage of not needing a threaded hole, therefore decreasing the cost of installation. See pages 30-31 for a detailed explanation of the difference between drive type and thread forming fittings. Small diameter shanks are for extra-light-duty applications.

**H3005Z3**
- Straight Drive Type
- ≈ 3/16" Drill Size
- Standard Shank

**H1736Z3**
- Straight Drive Type
- ≈ 1/8" Drill Size
- Long Shank

**H5012**
- Straight Drive Type
- ≈ 5/32" Drill Size
- Long Shank

**H3009Z3**
- Straight Drive Type
- ≈ 3/16" Drill Size
- Short Shank

**H3006Z3**
- Straight Drive Type
- ≈ 3/16" Drill Size
- Standard Shank

**H1728Z3**
- Straight Drive Type
- ≈ 3/16" Drill Size
- Long Shank

**H1633Z3**
- Straight Drive Type
- ≈ 3/16" Drill Size
- Long Shank

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
</tr>
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<tbody>
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<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
<tr>
<td>H1736Z3</td>
<td>≈ 1/8&quot; Drill</td>
<td>Straight</td>
<td>.56&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
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<tr>
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<td>.56&quot;</td>
<td>.25&quot;</td>
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<td>—</td>
<td>5/16&quot;</td>
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<td>H3005Z3</td>
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<td>.22&quot;</td>
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<td>—</td>
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<td>.63&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE**

**SAE J534**

**EXCEEDS 72 HR SALT SPRAY. 8,000 PSI MAX PRESSURE.**

**Technical Drawings are Approximate Actual Size**

**Common Parts**

*Parts with this designation are in wide distribution.*

**Alemite®**

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**John Deere®**

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__REVISED 03-19__

<34>
### DRIVE TYPE

All angled drive type fittings are equipped with a hex shoulder to assist in orientation to the greasing point. Ideally, technicians should orient the fittings prior to installation.

#### Technical Drawings are Approximate Actual Size

**Common Parts**
- Parts with this designation are in wide distribution.
- Alemite®, Almon® and Lincoln® are registered trademarks of Alemite, LLC, Johnson City, TN, USA.
- John Deer® is a registered trademark of Deere and Company, Moline, Illinois.

---

#### SAE J534

Exceeds 72 hr salt spray.

8,000 psi Max pressure.

---

#### DRIVE TOOLS

G.L. HUYETT recommends using drive tools for proper installation. See page 37 for details.

---

#### Technical Drawings are Approximate Actual Size

#### DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY. THE EXACT DRILL SIZE FOR DRIVE TYPE FITTINGS MAY VARY WITH YOUR APPLICATION AND MATERIAL TESTING IS RECOMMENDED TO ENSURE RELIABILITY IN THE FIELD.

---

#### Item # | Drill Diameter | Angle (E) | Overall Length (A) | Shank Length (B) | Overall Width (D) | Swing Clearance (G) | Shoulder Diameter (H) | Ball Check?
---|---|---|---|---|---|---|---|---
H700504 | ~ 3/16" Drill | Straight | .48" | .17" | — | — | 5/16" | Yes
H1992Z3 | ~ 3/16" Drill | 45° | .83" | .22" | .58" | .39" | 3/8" Hex | Yes
H1646Z3 | ~ 3/16" Drill | 65° | .70" | .22" | .66" | .47" | 3/8" Hex | Yes
H369591 | ~ 3/16" Drill | Straight | .42" | .13" | — | — | 5/16" | No
H369580 | ~ 3/16" Drill | 45° | .69" | .09" | .60" | .41" | 3/8" Hex | Yes

---

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Longer shanks provide maximum grip and are ideal for use with thicker materials. The longer shank provides more shank engagement. Shorter shanks are available for thinner materials such as tubing.

### Common Parts

Parts with this designation are in wide distribution.

- **Alemite®**: Alemite, LLC, Johnson City, TN, USA
- **Lincoln Industrial®**: Lincoln Industrial (USA) Corp.
- **John Deere®**: Deere and Company, Moline, Illinois

### Technical Drawings are Approximate Actual Size

- Exceeds 72 hr salt spray.
- 8,000 psi max pressure.

### Item # | Drill Diameter | Angle (E) | Overall Length (A) | Shank Length (B) | Swing Clearance (G) | Shoulder Diameter (H) | Ball Check?
--- | --- | --- | --- | --- | --- | --- | ---
H1952Z3 | 1/4" Drill | Straight | .47" | .13" | — | — | 11/32" | No
H321381Z3 | 1/4" Drill | Straight | .55" | .25" | — | — | 11/32" | No
H1743Z3 | 1/4" Drill | Straight | .58" | .26" | — | — | 11/32" | Yes
H1744Z3 | 1/4" Drill | 65° | .76" | .28" | .66" | .47" | 3/8" Hex | Yes
H1608Z3 | 5/16" Drill | Straight | .55" | .25" | — | — | 3/8" | Yes
H1699Z3 | 5/16" Drill | Straight | .63" | .22" | — | — | 11/32" | No
H1630Z3 | 5/16" Drill | 65° | .70" | .22" | .66" | .47" | 3/8" Hex | Yes

**G.L. HUYETT RECOMMENDS USING DRIVE TOOLS FOR PROPER INSTALLATION. SEE NEXT PAGE FOR DETAILS.**
Larger diameter shanks are better suited for heavy-duty applications. However, the strength of the seal varies depending on the mating material. G.L. Huyett recommends testing prior to use in such applications.

### Technical Drawings

#### Item # Drill Diameter Angle (E) Overall Length (A) Shank Length (B) Overall Width (D) Swing Clearance (G) Shoulder Diameter (H) Ball Check?

<table>
<thead>
<tr>
<th>Item #</th>
<th>Drill Size</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1666Z3</td>
<td>3/8” Drill Straight</td>
<td>.58”</td>
<td>.22”</td>
<td>—</td>
<td>—</td>
<td>7/16”</td>
<td>No</td>
<td></td>
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<tr>
<td>H5036Z3</td>
<td>3/8” Drill Straight</td>
<td>.66”</td>
<td>.25”</td>
<td>—</td>
<td>—</td>
<td>7/16”</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

### Drive Tools

Drive tools are designed to ease the installation of drive type fittings. Their special design holds and guides grease fittings as they are driven in place, reducing the risk of damage. They are available for both straight and angled drive type fittings.

**H83200**

Specially designed to install straight drive type fittings

**ORDER A8: H83200**

**H83250**

Specially designed groove for installation of most angled fittings

**ORDER A8: H83250**

---

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SPECIAL USE FITTINGS

Special use fittings possess unique designs for specific installation, servicing or performance applications. Our Machine Shop will produce nearly any type of grease fitting for your application.

**FLUSH TYPE**

Flush type fittings use a variety of styles and drive systems, but the principal designs are all the same. A flush design yields a low profile which shields the part from flying debris, or from nearby moving parts.

**SERVICE WITH FLUSH TYPE COUPLERS FOUND ON PAGE 123, OR WITH A STANDARD OIL CAN.**

**STANDARD BUTTON HEAD**

Standard button head fittings are compact, relatively flush, and used in heavy-duty applications. The head design minimizes damage from flying debris such as in coal mines or on material handling conveyors. A conventional ball check system is deployed, yielding a 6,000 psi operating pressure rating.

**USE WITH STANDARD BUTTON HEAD COUPLERS FOUND ON PAGE 120.**

**HEAVY DUTY BUTTON HEAD**

Heavy duty button head fittings have a heavier duty design with a larger head to withstand greater stresses in use. These fittings also have a much higher pressure rating than standard button head fittings.

**USE WITH HEAVY DUTY BUTTON HEAD COUPLERS FOUND ON PAGE 120.**

Flush type fittings are ideal for applications with hard to lubricate areas and/or in low clearance areas.

Standard fittings can be damaged by repetitive abuse from harsh environments.

Button head fittings are designed to withstand repetitive abuse from harsh environments.
Flush type fittings are for applications where a protruding greasing nipple may be impractical. The compact design of the flush type fitting allows for use on shafts, pulleys and other rotating assemblies. Large diameter flush type fittings are ideally suited for high volume applications. Larger flush type fittings are used in many of the same applications as button head fittings, and are more resistant to damage due to their low profile design.

**SAE J534**

Exceeds 72 hr salt spray.

### Technical Drawings are Approximate Actual Size

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>H1815Z3</td>
<td>1/8&quot;-27 NPTF</td>
<td>.36*</td>
<td>.30*</td>
<td>.22*</td>
<td>.39*</td>
<td>13/32&quot; Slotted</td>
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<tr>
<td>H1452Z3</td>
<td>1/8&quot;-27 NPTF</td>
<td>.53*</td>
<td>—</td>
<td>.28*</td>
<td>.39*</td>
<td>.39&quot; Slotted</td>
</tr>
<tr>
<td>HZ741Z3</td>
<td>1/4&quot;-18 NPTF</td>
<td>.56*</td>
<td>—</td>
<td>.26*</td>
<td>.52*</td>
<td>.54&quot; Slotted</td>
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<tr>
<td>H1841Z3</td>
<td>3/8&quot;-18 NPTF</td>
<td>.81*</td>
<td>.63*</td>
<td>.38*</td>
<td>.64*</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>H1842Z3</td>
<td>1/2&quot;-14 NPTF</td>
<td>.85*</td>
<td>.60*</td>
<td>.38*</td>
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<td>7/8&quot;</td>
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<td>.60*</td>
<td>.38*</td>
<td>1.01*</td>
<td>1&quot;</td>
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</table>

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Parallel threaded flush type fittings have threads similar to standard bolts. The slotted design on the H7502 allows for installation with a screw driver. Small diameter flush type fittings are popular for use with oil cans, see below for details.

As with all parallel threaded fittings, thread sealant is recommended.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H7502</td>
<td>10-32 UNF</td>
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<td>.15&quot;</td>
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<td>H1851Z3</td>
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<td>.41&quot;</td>
<td>.30&quot;</td>
<td>.19&quot;</td>
<td>.25&quot;</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

**SERVICE SUGGESTION**

In light duty applications, a standard oil can may be used. See page 13.

**Common Parts**
Parts with this designation are in wide distribution.

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**Lincoln Industrial®**
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**John Deere®**
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Flush drive type fittings have an advantage of not needing a threaded hole, therefore decreasing the cost of installation. These grease fittings can be serviced by a variety of hand oilers including those found on page 131. The midget flush type coupler H84205, found on page 123, is recommended for the H1877.

- **H1877**
  - Straight Flush Drive Type
  - ≈ 1/8" Drill Size
  - Smooth Shank

- **H3036Z3**
  - Straight Flush Drive Type
  - ≈ 3/16" Drill Size
  - Serrated Shank

- **H1814Z3**
  - Straight Flush Drive Type
  - ≈ 5/16" Drill Size
  - Smooth Shank

**Common Parts**
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- Lincoln Industrial ®
  - Lincoln Industrial ® is a registered trademark of Lincoln Industrial (USA) Corp.

- John Deere ®
  - John Deere ® is a registered trademark of Deere and Company, Moline, Illinois.

**Item #** | **Diameter** | **Shank Type** | **Overall Length (A)** | **Shank Length (B)** | **Min. Thread Length (C)** | **Thread Diameter (F)** | **Shoulder Diameter (H)**
---|---|---|---|---|---|---|---
H1877 | ≈ 1/8" Drill | Smooth Shank | .17" | .13" | — | — | 5/32" |
H3036Z3 | ≈ 3/16" Drill | Serrated Shank | .37" | .31" | — | — | 1/4" |
H1814Z3 | ≈ 5/16" Drill | Smooth Shank | .33" | .28" | — | — | 3/8" |
H369604 | ≈ 1/4" Drill | Serrated Shank | .34" | .33" | — | — | 5/16" |
H1885Z3 | ≈ 1/4" Drill | Smooth Shank | .28" | .23" | — | — | 5/16" |

**PLEASE NOTE**
Hole sizes provided are for reference. G.L. Huyett recommends testing to ensure reliability in the field.
Button head fittings are popular in rugged applications such as on conveyors, mining equipment and agricultural equipment. The flat head design minimizes damage from flying debris.

### H1184Z3
- **Button Head - Standard**
- 1/8"-27 PTF Spl Short
- Ball Check

### H1184N
- **Button Head - Standard**
- 1/8"-27 NPTF
- No Ball Check

### H1186Z3
- **Button Head - Standard**
- 1/4"-18 PTF SAE Short
- Ball Check

### H1188Z3
- **Button Head - Standard**
- 3/8"-18 NPTF
- Ball Check

### H1190Z3
- **Button Head - Standard**
- 1/2"-14 PTF Spl. Short
- Ball Check

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
</tr>
</thead>
<tbody>
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<td>.18&quot;</td>
<td>.39&quot;</td>
<td>5/8&quot;</td>
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</tr>
<tr>
<td>HC69</td>
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<td>.39&quot;</td>
<td>5/8&quot;</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H1186Z3</td>
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<td>.85&quot;</td>
<td>.44&quot;</td>
<td>.31&quot;</td>
<td>.52&quot;</td>
<td>5/8&quot;</td>
<td>Ball Check</td>
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<td>H1188Z3</td>
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<td>1.06&quot;</td>
<td>.59&quot;</td>
<td>.41&quot;</td>
<td>.64&quot;</td>
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</tr>
<tr>
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<td>1.09&quot;</td>
<td>.56&quot;</td>
<td>.36&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

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*Common Parts*:
- Parts with this designation are in wide distribution.

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Button head fittings with plunger checks are more tolerant of high back pressures than those with ball checks and allow larger volumes of lubricant to flow into the assembly. Button head fittings require special couplers found on page 120.

### DESIGN DIFFERENCES

**PLUNGER CHECK VS. BALL CHECK**

**Fittings with Plunger Checks are more tolerant of high back pressures than those with Ball Checks and allow larger volumes of lubricant to flow into the assembly.**

**Fittings with Ball Checks are cost-effective and still provide adequate back pressure protection in most applications.**

### HA1184
- Button Head - Standard
- 1/8"-27 PTF Spl. Short
- Plunger Check

### HA1186Z3
- Button Head - Standard
- 1/4"-18 NPTF
- Plunger Check

### HA1188
- Button Head - Standard
- 3/8"-18 NPTF
- Plunger Check

### HA1190
- Button Head - Standard
- 1/2"-14 NPTF
- Plunger Check

#### Item #

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<tr>
<th>HA1184</th>
<th>1/8&quot;-27</th>
<th>.75&quot;</th>
<th>.34&quot;</th>
<th>.22&quot;</th>
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<td>.83&quot;</td>
<td>.42&quot;</td>
<td>.40&quot;</td>
<td>.52&quot;</td>
<td>5/8&quot;</td>
<td>Plunger Check</td>
</tr>
<tr>
<td>HA1188</td>
<td>3/8&quot;-18</td>
<td>.95&quot;</td>
<td>.48&quot;</td>
<td>.41&quot;</td>
<td>.64&quot;</td>
<td>3/4&quot;</td>
<td>Plunger Check</td>
</tr>
<tr>
<td>HA1190</td>
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<td>1.06&quot;</td>
<td>.55&quot;</td>
<td>.53&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Plunger Check</td>
</tr>
</tbody>
</table>

---

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---

EXCEDES 12 HR SALT SPRAY, 6,000 PSI MAXIMUM PRESSURE
The hex-head design on a button head grease fitting allows for easy installation in some applications. For example, a socket wrench can engage the head from the top in recessed locations. The 15.0 mm head found on these fittings fits standard couplers.

### Common Parts

**HX1182**
- **Button Head - Hex Head**
- **1/4"-28 UNF**
- **Ball Check**

**HX1186**
- **Button Head - Hex Head**
- **3/8"-24 UNF**
- **Ball Check**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
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<td>.24&quot;</td>
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<td>.25&quot;</td>
<td>15.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>HX1186</td>
<td>3/8&quot;-24</td>
<td>.63&quot;</td>
<td>.24&quot;</td>
<td>.15&quot;</td>
<td>.37&quot;</td>
<td>15.0 mm</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

**COUPLER COMPATIBILITY**

**PULL-ON COUPLER**

**PUSH-ON COUPLER**

**BUTTON HEAD FITTINGS ARE GENERALLY ACCESSED HORIZONTALLY, WHETHER THROUGH THE USE OF A PULL-ON COUPLER, OR A PUSH-ON COUPLER. SEE PAGE 120 FOR DETAILS.**
**BUTTON HEAD**

Heavy duty button head fittings are designed for extremely rugged applications. They are well suited for excavation equipment, road pavers and heavy mining equipment. These fittings accept large volumes of heavy weight lubricants and tolerate high pressures. Their sturdy, enlarged heads require a bigger coupler than standard button head fittings. For details, please see our heavy duty couplers found on page 120.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
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<td>1.31&quot;</td>
<td>.50&quot;</td>
<td>.40&quot;</td>
<td>.52&quot;</td>
<td>7/8&quot;</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H1822Z3</td>
<td>3/8&quot;-18</td>
<td>1.41&quot;</td>
<td>.64&quot;</td>
<td>.48&quot;</td>
<td>.64&quot;</td>
<td>7/8&quot;</td>
<td>Ball Check</td>
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<tr>
<td>H1820Z3</td>
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<td>.51&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

**BUTTON HEAD SIZE CHART**

**STANDARD BUTTON HEAD**

- 5/8" round
- 16 mm round
- 15 mm hex

**HEAVY DUTY BUTTON HEAD**

- 7/8" round
- 22 mm round

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SPECIAL USE FITTINGS

Special use fittings possess unique designs for specific installation, servicing or performance applications. Our Machine Shop will manufacture nearly any grease fitting in any material. Contact our Sales Team for details.

RIVET FITTINGS

Rivet type fittings are typically used on king pins. The fittings are considered relatively disposable, in that they are installed at the factory from the inside of the bearing, and thus are nearly impossible to replace unless the entire king pin is disassembled. Rivet fittings are preferable in these applications because the flush shank design does not interfere with underlying moving parts.

SPECIAL PLUGS

Special pipe plugs are different from standard pipe plugs in that they possess thread types that are specified by SAE J534. These plugs are used for the same applications as standard pipe plugs although the thread forming plugs do not require a hole to be tapped prior to installation.

DEEP SEATED

Deep seated fittings employ the use of a metal tube to dispatch grease to deep seated bearings with extra thick housing walls. Tube lengths vary and custom designs are made in our own in-house Machine Shop.

PIN TYPE

Pin type fittings use two horizontal pins that serve as coupling guides to improve the engagement of the coupler during servicing. The extra guides stabilize the coupling in vibratory or more precision environments. Pin type fittings were found on early automobile designs.

RIVET TYPE FITTINGS DO NOT HAVE EXTENDING SHANKS, WHICH ENSURES THAT THERE ISN'T INTERFERENCE WITH UNDERLYING MOVING PARTS.

FOR A COMPLETE LISTING OF PIPE PLUGS, SEE PAGES 80-83.

PLUGS CAN REPLACE GREASE FITTINGS IN SERVICE LOCATIONS THAT ARE NO LONGER NEEDED.

DEEP SEATED FITTINGS ALLOW LUBRICATION TO BEARINGS WITH EXCEPTIONALLY THICK HOUSINGS.

ALTHOUGH NOT A COMMON FITTING IN MOST MODERN-DAY APPLICATIONS, PIN TYPE FITTINGS PROVIDE EXCELLENT ENGAGEMENT AND SEALING.

CUSTOM DESIGNS, SIZES, AND MATERIALS ARE AVAILABLE ON REQUEST!

CUSTOM DESIGNS, SIZES, AND TUBE LENGTHS ARE AVAILABLE ON REQUEST!

USE WITH PIN TYPE COUPLERS FOUND ON PAGE 12.
RIVET TYPE

Rivet type fittings are designed for thin materials and special applications, such as on kingpins, where a conventional threaded or drive type fitting cannot be used or where a shank protruding into a component is unacceptable. Rivet type fittings are driven into place from behind. This unique fitting resembles a rivet in form only, and is not intended to be used as a fastener. Please note: The nipple design is covered by SAE J534, while the rivet style is not.

### H1675Z3
- **Straight Rivet Type**
- ≈ 5/16” Drill Size

#### INSTALLATION
- Rivet type grease fitting has a flush shank that does not extend into the assembly.

#### DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

<table>
<thead>
<tr>
<th>Item #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
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<tbody>
<tr>
<td>H1675Z3</td>
<td>≈ 5/16” Drill</td>
<td>Straight</td>
<td>.50”</td>
<td>.15”</td>
<td>—</td>
<td>—</td>
<td>3/8”</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### SPECIAL PLUGS

Plugs are often used in gear boxes that have vacant holes and need to be sealed to prevent debris from entering the gear box. Plugs come in a variety of head styles to fit any industrial or agricultural application. The H700337Z3 is a thread forming plug and is designed for an opening with damaged threads or holes with no threads.

#### H328224Z3
- **Plug - Slotted Hex Head**
- 1/4”-28 SAE-LT

#### H700337Z3
- **Plug - Hex Head**
- 1/4”-28 Thread Forming

#### INSTALLATION
- Grease fitting has a flush shank that does not extend into the assembly.

#### TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

#### COMMON PARTS

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These uncommon grease fittings have special extensions for use with deep seated bearings which may be inadequately serviced by standard grease fittings. Deep seated fitting extensions are designed to deliver the grease to the precise point it is most needed. Custom tube lengths are available. When ordering, please specify the length needed for your application.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Shank Length</th>
<th>Min. Thread Length</th>
<th>Overall Width</th>
<th>Thread Diameter</th>
<th>Swing Clearance</th>
<th>Hex</th>
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<tbody>
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<td>H4711</td>
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</tr>
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<td>H4641</td>
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<td>—</td>
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<td>H4911</td>
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<td>9/16&quot;</td>
<td></td>
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</table>
The pin type grease fitting is one of the earliest grease fitting designs ever manufactured. These fittings were a common sight on vehicles in the 1910's and 1920's and are still used today in some applications. Servicing is performed by hooking a special coupler, found on page 121, around both ends of the pin to create a leak-proof seal.

Sample Table:

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
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<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
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<td>.97&quot;</td>
<td>.27&quot;</td>
<td>.19&quot;</td>
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<td>.30&quot;</td>
<td>1.10&quot;</td>
<td>.39&quot;</td>
<td>.85&quot;</td>
<td>1/2&quot;</td>
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<td>HA358</td>
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<td>HA360</td>
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<td>.41&quot;</td>
<td>1.10&quot;</td>
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<td>9/16&quot;</td>
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<tr>
<td>HA361Z3</td>
<td>1/4&quot;-18</td>
<td>90°</td>
<td>1.31&quot;</td>
<td>.60&quot;</td>
<td>.41&quot;</td>
<td>1.42&quot;</td>
<td>.52&quot;</td>
<td>1.17&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>
There are three groups of pressure control fittings: vents, breathers and relief vents. Breathers do not restrict airflow and allow the gearbox to “breathe” in and out. Vents are different from breathers because air is only allowed to flow in one direction, and the vent closes to prevent airflow in the opposite direction. Relief vents have a small interior valve that relieves pressure at prescribed pressure ratings.

**Vents**

Vents open and close within a predetermined pressure range. As internal pressures rise, a flat seal (typically composed of rubber) opens, allowing pressure to vent. As the pressure decreases, the seal closes. The rubber seal has the added advantage of sealing the port opening while closed, thus preventing dirt, water and other contaminants from entering.

**Breathers**

Breather fittings feature specially designed ports that allow air to move in-and-out, thus creating the effect of “breathing.” They have a special cap which reduces contamination. For additional contamination protection, some breathers are equipped with a felt filter.

**Relief Vents**

Pressure relief vents open and close within a predetermined pressure range. As internal pressures rise, the plunger or check ball opens, allowing pressure to vent. As pressures decrease to below the minimum threshold, the valve closes.
Pressure control fittings are designed to maintain selected pressures inside of gearboxes and bearing housings. These fittings are designed in a variety of styles and types. For custom designs, please contact our Sales Team for details.

**OVER LUBRICATION**

As components turn inside gearboxes, the friction of the moving parts produces heat, which in turn causes the interior liquids and gases to expand.

As the volume of liquids and gases expand, pressure increases. If not controlled, the excess pressure can cause seals to break, resulting in damage to the gearbox components.

Pressure control fittings are available in various psi ratings to fit your application.

**PREVENTION**

In the application to the right, the pressure relief valve on top of the gear box has successfully vented excess pressure. This pressure relief allows the gearbox to operate safely at a variety of RPM’s and various atmospheric conditions.

Use of top vent fitting allows excess pressures to vent out of component.

**INSTALLATION**

In most applications, it is best to install pressure control fittings above the stationary fluid line. Be sure to have the proper pressure control fitting with the correct pressure rating for the application.

Pressure control fittings assist in reducing damage from over pressurization in an application.

Above fluid level vs. below fluid level
Vent fittings are a common sight on differentials, transfer cases, transmissions, gear boxes and other similar applications. These grease fittings are designed to allow air to escape as inside temperatures and pressures build in working components. Vents differ from breathers in that they regulate how much pressure that may accumulate before opening.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Opening Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
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<tr>
<td>H304810</td>
<td>1/8&quot;-27</td>
<td>0.04-0.11 psi</td>
<td>1.00&quot;</td>
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<td>.19&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H131000</td>
<td>1/8&quot;-27</td>
<td>0.43 psi max</td>
<td>1.00&quot;</td>
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<td>.19&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H327240</td>
<td>1/8&quot;-27</td>
<td>1-1.5 psi</td>
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<td>.19&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
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**VENT PRESSURE RATINGS SUMMARY**

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<th>Thread Series</th>
<th>Drill Diameter</th>
<th>Page #</th>
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<td>.04-.11 psi</td>
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<td>—</td>
<td>pg. 52</td>
</tr>
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<td>H300805</td>
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<td>—</td>
<td>pg. 53</td>
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<td>.43 psi max</td>
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<td>pg. 52</td>
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<tr>
<td>H324970</td>
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<td>.0368&quot; Drill</td>
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</tr>
<tr>
<td>H327240</td>
<td>1-1.5 psi</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>pg. 52</td>
</tr>
<tr>
<td>H330766</td>
<td>2.5-4 psi</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>pg. 53</td>
</tr>
</tbody>
</table>
Vent fittings are designed to be positioned above the fluid level to prevent fluid loss and component failure. All vents have a cap which reduces external contaminants from entering the housing. The felt filter on the H300805 provides an additional level of protection from contamination.

### H300805
- **Vented - Felt Filter**
- 1/8"-27 PTF Spl. Short
- Opening Range: 0.04-0.11 psi

### H330766
- **Vent**
- 1/8"-27 PTF SAE Short
- Opening Range: 2.5-4 psi

#### Technical Drawings
- **Felt Filter**
- **Alemite®**
  - Registered trademark of Alemite, LLC, Johnson City, TN, USA.
- **Lincoln Industrial®**
  - Registered trademark of Lincoln Industrial (USA) Corp.
- **John Deere®**
  - Registered trademark of Deere and Company, Moline, Illinois.

### Table

<table>
<thead>
<tr>
<th>Item #</th>
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<th>Opening Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
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<td>7/16&quot;</td>
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<tr>
<td>H330766</td>
<td>1/8&quot;-27</td>
<td>2.5-4 psi</td>
<td>1.00&quot;</td>
<td>.26&quot;</td>
<td>.19&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

### Design Feature
- **H300805**
  - The H300805 contains a felt filter instead of a rubber seal for additional protection from debris.

**Common Parts**
- Parts with this designation are in wide distribution.

---

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Vent fittings are found on a variety of industrial machinery where pressure buildup is a concern. Large diameter threads are designed for heavy-duty applications.

**Please Note**

Drill sizes provided are approximations only. The exact drill size for drive type fittings may vary with your application and material. SAE and G.L. Huyett recommend testing to ensure reliability in the field. Drive type fittings are not recommended for high-pressure applications.

---

### Technical Drawings Are Approximate Actual Size

<table>
<thead>
<tr>
<th>Item #</th>
<th>Drill Diameter</th>
<th>Opening Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
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<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
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</table>

---

### Installation

**PASS**

**FAIL**

**Above Fluid Level vs. Below Fluid Level**

Vents are designed to be used above fluid level.
Breathers are used in many of the same applications as vents because they are designed to prevent pressure buildup in mechanical assemblies. Breathers differ from vents in that they allow the unrestricted air flow in and out of a component. Breathers allow a component to “inhale” and “exhale.” The H333075 is a deep seated version of the H313650.

### Technical Drawings

#### H301370Z3
Breather
1/8"-27 PTF Spl. Short

#### H321620
Breather
3/8"-18 PTF SAE Short

#### H369583
Breather
3/8"-18 PTF SAE Short

#### H333075
Breather
3/8"-18 PTF SAE Short

### Item Specifications

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<th>Drill Diameter</th>
<th>Overall Length (A)</th>
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<td>.28&quot;</td>
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<td>H369583</td>
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<td>—</td>
<td>3/4&quot;</td>
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</tr>
</tbody>
</table>

#### Common Parts

- Alemite® is a registered trademark of Alemite Industrial Products, Inc.
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

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RELIEF VENT

Pressure relief valves release excessive pressure which may accumulate during operation of a bearing housing or gearbox. Recommended installation is above fluid level. For a detailed explanation of the operation of pressure relief valves, see page 50-51. Available in stainless steel as a special order.

**ONE-PIECE DESIGN**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Description</th>
<th>Characteristics</th>
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<tbody>
<tr>
<td>1</td>
<td>Relief - Top Vent</td>
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<td>2</td>
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<td>3</td>
<td>Relief - Top Vent</td>
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</tr>
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<td>4</td>
<td>Relief - Top Vent</td>
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<td>5</td>
<td>Relief - Top Vent</td>
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**TWO-PIECE DESIGN**

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<td>Relief - Top Vent</td>
<td>1/2&quot;-14 PTF Spl. Short One-Piece Design</td>
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<td>7</td>
<td>Relief - Top Vent</td>
<td>1/4&quot;-18 NPTF Two-Piece Design</td>
</tr>
<tr>
<td>8</td>
<td>Relief - Top Vent</td>
<td>3/8&quot;-18 NPTF Two-Piece Design</td>
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<td>9</td>
<td>Relief - Top Vent</td>
<td>1/2&quot;-14 NPTF Two-Piece Design</td>
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**LEAK PROOF**

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<tbody>
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<td>10</td>
<td>Relief - Top Vent Leak Proof</td>
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<td>11</td>
<td>Relief - Top Vent Drive Type</td>
<td>≈ 3/8&quot; Drill Size</td>
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**DRIVE TYPE**

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<tr>
<td>12</td>
<td>Relief - Side Vent</td>
<td>1/8&quot;-27 PTF Spl. Short</td>
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<tr>
<td>13</td>
<td>Relief - Side Vent</td>
<td>1/8&quot;-27 PTF Spl. Short</td>
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**SIDE VENT**

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<th>Description</th>
<th>Characteristics</th>
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<tbody>
<tr>
<td></td>
<td>Relief - Side Vent</td>
<td>1/8&quot;-27 PTF Spl. Short</td>
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Common Parts

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REVISED 03-19
# RELIEF VENT

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<th>Cross Reference</th>
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<td>1/4&quot;-18 PTF</td>
<td>1-5 psi</td>
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<td>.42&quot;</td>
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<td>9/16&quot;</td>
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<tr>
<td>H338382</td>
<td>Dia. 10</td>
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<td>80-140 psi</td>
<td>338382</td>
<td>.57&quot;</td>
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<td>100-200 psi</td>
<td>369593</td>
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<td>.20&quot;</td>
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<td>H5050023</td>
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<td>1/8&quot;-27 PTF</td>
<td>400-650 psi</td>
<td>50500</td>
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<td>.30&quot;</td>
<td>.20&quot;</td>
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<td>7/16&quot;</td>
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<tr>
<td>H317422</td>
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<td>0.25-1 psi</td>
<td>1.06&quot;</td>
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<td>0.25-1 psi</td>
<td>1.16&quot;</td>
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<td>1-5 psi</td>
<td>1.06&quot;</td>
<td>.46&quot;</td>
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<td>1-5 psi</td>
<td>1.06&quot;</td>
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<td>.64&quot;</td>
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<td>1-5 psi</td>
<td>1.16&quot;</td>
<td>.55&quot;</td>
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<td>H47622</td>
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<td>1/4&quot;-18 NPTF</td>
<td>7.5-15 psi</td>
<td>1.06&quot;</td>
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<td>7.5-15 psi</td>
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<td>7.5-15 psi</td>
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<td>H322362</td>
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<td>H323064</td>
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<td>3/8&quot;-18 NPTF</td>
<td>15-25 psi</td>
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<td>1.16&quot;</td>
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<td>H47122</td>
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<td>45-80 psi</td>
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<td>H47104</td>
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<td>45-80 psi</td>
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<td>.64&quot;</td>
<td>11/16&quot;</td>
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<tr>
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<td>45-80 psi</td>
<td>1.16&quot;</td>
<td>.55&quot;</td>
<td>.42&quot;</td>
<td>.82&quot;</td>
<td>13/16&quot;</td>
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<tr>
<td><strong>SIDE VENT</strong></td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>H5677Z3</td>
<td>Dia. 12</td>
<td>1/8&quot;-27 PTF</td>
<td>1-5 psi</td>
<td>5677</td>
<td>.50&quot;</td>
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<td>.17&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H5678Z3</td>
<td>Dia. 12</td>
<td>1/8&quot;-27 PTF</td>
<td>7.5-15 psi</td>
<td>5678</td>
<td>.50&quot;</td>
<td>.28&quot;</td>
<td>.17&quot;</td>
<td>.39&quot;</td>
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<td>15-25 psi</td>
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<td>.28&quot;</td>
<td>.17&quot;</td>
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<td>H5680</td>
<td>Dia. 13</td>
<td>1/8&quot;-27 PTF</td>
<td>45-80 psi</td>
<td>5680</td>
<td>.50&quot;</td>
<td>.28&quot;</td>
<td>.17&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

The upper pressure range limit is marked on the top or side of the fitting. Side vent fittings release pressure through two side ports, whereas top vent fittings release pressure through a large top port.

---

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FLOW CONTROL

There are several different styles of flow control fittings: safety vents, leak proof, light oil leak proof and Flow Stop™. Please make sure to verify the proper pressure rating for your desired application.

SAFETY VENTS

Safety vents have a milled slot in the shank to relieve pressure during operation. While inexpensive and simple in design, the part can excrete excess grease to the work area, which may not be desirable.

LEAK PROOF

Leak proof fittings encompass an internal rubber seal or brass insert, so that grease cannot leak out when under pressure. The leak-proof design is desirable in environments where grease can contaminate the work environment.

LIGHT OIL LEAK PROOF

Except for a plastic ball check that can deform on the inside of the tip when under pressure, light oil leak proof fittings are designed the same as regular fittings. Such deformation provides a leak-proof seal for light oils, up to 215 psi.

FLOW STOP™

While leak proof fittings control the grease that flows out of a fitting, flow stop fittings control the input. Using a valve with a pressure-rated spring, the fitting opens and closes to allow grease to flow in at a controlled pressure, thus preventing over-lubrication.

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FLOW CONTROL

While greasing and lubrication of bearings is important, over-lubrication can also cause serious damage. Flow control fittings provide safety devices that limit the flow of grease in and out of the bearing and the fitting itself.

OVER LUBRICATION

As components move, the friction of the moving parts produces heat, which in turn causes pressure to build and interior liquids to expand:

- If not controlled, the excess pressure can cause seals and or other parts to break, resulting in damage and contamination of the work environment.
- A flow control fitting prevents such occurrences by preventing over-lubrication and contamination from grease coming back out through the fitting into the work environment.

FLOW CONTROL FITTINGS COME IN VARIOUS PRESSURE RATINGS. PLEASE CHOOSE THE APPROPRIATE RATING FOR YOUR APPLICATION.

PREVENTION

Certain flow control fittings possess features, such as milled slots or valves working in conjunction with pressure rated springs, that prevent over lubrication and potential damage.

FLOW CONTROL FITTINGS HAVE SAFETY FEATURES TO LIMIT THE FLOW OF GREASE IN AND OUT OF THE BEARING AND FITTING TO PREVENT DAMAGE.

CONTAMINATION

In a conventional ball check design, excess grease can leak back out through the end of the part. Such leakage can contaminate sensitive components, especially in food processing or pharmaceutical applications. Flow control fittings deploy seals or deformable ball checks that seal the passage, and thus prevent grease from leaking back out the end.

LEAK PROOF FITTINGS PREVENT CONTAMINATES FROM LEAKING OUT OF THE FITTING, SEE PAGES 61–63.

CONVENTIONAL FITTINGS

FLOW CONTROL FITTINGS

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SAFETY VENT

Safety vent fittings have a groove cut into the threads, which allows excess grease to escape to prevent overpressurization. Grease in the groove indicates maximum lubrication. While potentially messy, this is a cost-effective safety precaution.

### Technical Drawings are Approximate Actual Size

#### Common Parts

- Parts with this designation are in wide distribution.
- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

#### Special Parts

**DO YOU NEED A CUSTOM GREASE FITTING FOR YOUR OPERATION?**

**WE CAN MAKE IT, CALL OUR SALES TEAM TODAY!**

### Item # Thread Angle Overall Shank Min. Thread Overall Thread Swing Hex

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Shank Length</th>
<th>Min. Thread Length</th>
<th>Overall Width</th>
<th>Thread Diameter</th>
<th>Swing Clearance</th>
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<td>H1930Z3</td>
<td>1/8&quot;-27 Straight</td>
<td>.73&quot;</td>
<td>.28&quot;</td>
<td>.22&quot;</td>
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<td>—</td>
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<td>H1925Z3</td>
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<td>.86&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>.72&quot;</td>
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<td>7/16&quot;</td>
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<tr>
<td>H1927Z3</td>
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<td>.88&quot;</td>
<td>.45&quot;</td>
<td>.34&quot;</td>
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<td>—</td>
<td>9/16&quot;</td>
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<tr>
<td>H1910</td>
<td>1/4&quot;-28 Straight</td>
<td>.54&quot;</td>
<td>.18&quot;</td>
<td>.10&quot;</td>
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<td>.25&quot;</td>
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<td>.54&quot;</td>
<td>.21&quot;</td>
<td>.10&quot;</td>
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<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>
The H1641V, H1610V and H1627V are for use with light oil, up to 215 psi. The plastic ball check compresses and distorts under pressure to produce a leak-free seal at low pressures.

**H1641V**
- Straight Leak Proof
- 1/4"-28 UNF
- 215 psi

**H1610V**
- Straight Leak Proof
- 1/8"-27 NPTF
- 215 psi

**H1627V**
- Straight Leak Proof
- 1/4"-18 NPTF
- 215 psi

**Item #** | **Thread** | **Angle (E)** | **Max Back Pressure** | **Overall Length (A)** | **Shank Length (B)** | **Min. Thread Length (C)** | **Overall Width (D)** | **Thread Diameter (F)** | **Swing Clearance (G)** | **Hex (H)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H1641V | 1/4"-28 | Straight | 215 psi | .59" | .22" | .15" | — | .25" | — | 7.0 mm
H1610V | 1/8"-27 | Straight | 215 psi | .59" | .22" | .15" | — | .39" | — | 7/16"
H1627V | 1/4"-18 | Straight | 215 psi | .69" | .26" | .16" | — | .52" | — | 9/16"

**DESIGN FEATURE**

**THE DELRIN® PLASTIC BALL CONFORMS TO THE SURFACE HOLE, PROVIDING A LEAK-FREE PERFORMANCE. THESE GREASE FITTINGS ARE SUITED FOR LIGHT OILS & OTHER FLUIDS AT LOW PRESSURES.**

---

**Common Parts**
Parts with this designation are in wide distribution.

**Alemite®**
Trademark of Alemite, LLC, Johnson City, TN, USA.

**Lincoln Industrial®**
Trademark of Lincoln Industrial (USA) Corp.

**John Deere®**
Trademark of Deere and Company, Moline, Illinois.

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Delrin® is a registered trademark of E. I. du Pont de Nemours and Company.
Leak proof fittings are designed for applications where the prevention of lubricant leakage is critical, such as in textile & food processing equipment. These fittings are also used in laboratory environments such as those found in pharmaceutical production facilities. The H1634Z3 has a steel ball check and brass insert that seals grease. The H1634BZ3 has a spring loaded surface ball check that seals debris from entering the fitting.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Max. Back Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>Straight</td>
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<td>.38&quot;</td>
<td>.27&quot;</td>
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<td>7/16&quot;</td>
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<tr>
<td>H1692</td>
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<td>30°</td>
<td>5,000 psi</td>
<td>1.22&quot;</td>
<td>.38&quot;</td>
<td>.27&quot;</td>
<td>.56&quot;</td>
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<td>90°</td>
<td>5,000 psi</td>
<td>.97&quot;</td>
<td>.38&quot;</td>
<td>.27&quot;</td>
<td>.72&quot;</td>
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<td>7/16&quot;</td>
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<td>Straight</td>
<td>10,000 psi</td>
<td>.85&quot;</td>
<td>.38&quot;</td>
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<td>7/16&quot;</td>
</tr>
<tr>
<td>H1634BZ3</td>
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<td>Straight</td>
<td>10,000 psi</td>
<td>1.00&quot;</td>
<td>.52&quot;</td>
<td>.37&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
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</table>

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REVISED 03-19
**LEAK PROOF**

The H369533 is a drive type fitting, and possesses a 3,000 psi leak-proof pressure rating. Test drill hole to verify fit and function.

**H369533**

Straight Leak Proof - Drive Type

≈ 7/16" Drill Size

3,000 psi

**Please Note**

**Technical Drawings are Approximate Actual Size**

**Common Parts**

Parts with this designation are in wide distribution.

**Alemite®**

Alemite®, A.S. Alemite trademark of Alemite, Inc., Johnson City, TN, U.S.A.

**Lincoln Industrial®**

Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

**John Deere®**

John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

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**FLOW STOP™**

Flow Stop™ fittings are designed to stop the flow of grease within a specified pressure range. This prevents overpressurization and damage to bearing seals. The fitting will reopen when internal pressure drops to within 2 psi of the stated minimum pressure, see below for details.

**H1940**

60° Angle Flow Stop

1/8"-27 PTF Spl. Short

5-20 psi

**H1795**

60° Angle Flow Stop

1/8"-27 PTF Spl. Short

60-100 psi

---

**SAE J534**

---

**Please Note**

Drill sizes provided are approximations only. The exact drill size for drive type fittings may vary with your application and material.

SAE and G.L. Huyett recommend testing to ensure reliability in the field.

Drive type fittings are not recommended for high-pressure applications.

---

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**REVISED 03-19**
CONNECTING PARTS

Styles and designs of connectors are limited to an engineer’s imagination. Generally connectors are made from steel or brass with zinc or nickel plating. Stainless steel, certain high strength or corrosion resistant materials, and even plastic connectors are available. We have a complete Machine Shop to produce any connector part in virtually any material.

ADAPTERS

An adapter is used in applications where one thread pitch needs to be "adapted" to a more compatible thread pitch for a new grease fitting or other mating part.

EXTENSIONS

Extensions are used when a grease fitting needs to "extend" out of a crevice to a more accessible service placement. Extensions have the same thread pitch on both ends (male and female.)

BUSHINGS

Reducer bushings are threaded adapters. Bushings functionally decrease the size of a threaded hole. They are commonly used to replace stripped threads or for retrofitting smaller components into larger holes.

ELBOWS

Elbows are angled connectors used to plumb and make turns around obstructions. They usually have a male and female end.

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REVISED 03-19
Connectors provide multiple opportunities to make grease fitting lubrication an easier and more efficient process. By understanding the types and styles of connectors, an engineer or operator can better optimize machine time and performance. Please note that our in-house Machine Shop can make nearly any connector in any material, so please contact our Sales Team for a quote if there is something you need that is not listed in this book.

**REPOSITIONING**

By utilizing a connector, the lubrication point can be moved around or above the machinery or application to create a more compatible service location.

**COST REDUCTION**

By adding a connector to your application you may save money. It may sound counterintuitive, but the costs of the connector and commonly used fittings are sometimes less expensive than a rare and costly replacement part. In addition, by unifying common replacement parts in an application, there is less risk of damage while servicing.

**CONSOLIDATION**

Header blocks are commonly used to consolidate multiple service locations to a single site. These connectors use tubing that converges back to a single service point. This single point of lubrication is commonly referred to as a header block.

Header blocks can be used to create one lubrication service area thus saving you time and money.

Metric adapters are found on page 67.
Adapters are often implemented in applications where a thread size needs to be changed to accompany a mating part. This is generally done to accommodate common thread sizes, retrofit aftermarket parts to an existing assembly or allow for the tapping of larger threads to replace a damaged part.

### Common Parts
- **Alemite®**
  - Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- **Lincoln Industrial®**
  - Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- **John Deere®**
  - John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

### Technical Drawings are Approximate Actual Size

#### Male x Female

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA51942Z3</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.87&quot;</td>
<td>1/2&quot;</td>
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<tr>
<td>H51942</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>H305859</td>
<td>7/16&quot;-27 UNS (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.78&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H43760</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.19&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>H12989</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (F)</td>
<td>Straight</td>
<td>1.75&quot;</td>
<td>1&quot;</td>
</tr>
</tbody>
</table>
Adapters are used in order to accommodate common thread sizes, retrofit aftermarket parts to an existing assembly or allow for the tapping of larger threads to replace a damaged part. Metric to Inch adapters are beneficial for converting a metric threaded hole to accommodate an Inch grease fitting. The H338552 is most often used to adapt smaller pump inlets to larger lubricant drum holes or bungs.

**METRIC TO ENGLISH**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H52797</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (F)</td>
<td>Straight</td>
<td>1.62&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>H338552</td>
<td>2&quot;-11-1/2 NPT (M)</td>
<td>3/4&quot;-14 NPT (F)</td>
<td>Straight</td>
<td>1.29&quot;</td>
<td>1-5/8&quot; sq.</td>
</tr>
<tr>
<td>HMET06</td>
<td>M6 X 1.0 (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.43&quot;</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>HMET08</td>
<td>M8 X 1.0 (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.45&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>HMET10</td>
<td>M10 X 1.0 (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.32&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

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Angled adapters are often implemented in applications where a thread size needs to be changed to accompany a mating part. This is generally done to accommodate common thread sizes, retrofit aftermarket parts to an existing assembly or allow for the tapping of larger threads to replace a damaged part. Also, adapters are sometimes used to remote mount lubrication points with a flex hose.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H310912</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>45°</td>
<td>.81&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>H247616</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 PTF SAE Short (F)</td>
<td>45°</td>
<td>1.06&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>H51943</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>.81&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>HA51943Z3</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.04&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>H43718</td>
<td>1/4&quot;-18 PTF SAE Short (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.19&quot;</td>
<td>9/16&quot; sq.</td>
</tr>
</tbody>
</table>

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## Elbows

Elbows, unlike adapters, maintain the same thread size and series on both ends. They are typically used to provide lubrication access in tight spaces and around obstacles.

### Technical Drawings are Approximate Actual Size

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---

### Elbows: Male x Female

- **H43716Z3** 45° Angle Elbow
  - Female (X) - 1/8"-27 NPTF
  - Male (Y) - 1/8"-27 PTF SAE Short

- **H44701Z3** 90° Angle Elbow
  - Female (X) - 1/8"-27 NPTF
  - Male (Y) - 1/8"-27 PTF SAE Short

- **H43306** 90° Angle Elbow
  - Female (X) - 1/8"-27 NPTF
  - Male (Y) - 1/8"-27 NPTF

- **H43748** 90° Angle Elbow
  - Female (X) - 1/4"-18 NPTF
  - Male (Y) - 1/4"-18 NPTF

- **H43706** 90° Angle Elbow
  - Female (X) - 1/8"-27 NPTF
  - Male (Y) - 1/8"-27 NPTF

- **H43748** 45° Angle Elbow
  - Female (X) - 1/8"-27 PTF SAE Short
  - Male (Y) - 1/8"-27 PTF SAE Short

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H43716Z3</td>
<td>1/8&quot;-27 PTF SAE Short (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>45°</td>
<td>1.00&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>H44701Z3</td>
<td>1/8&quot;-27 PTF SAE Short (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.00&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>H43706</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.13&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>H43748</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>90°</td>
<td>1.34&quot;</td>
<td>11/16&quot; sq.</td>
</tr>
<tr>
<td>H13129</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.50&quot;</td>
<td>5/8&quot; sq.</td>
</tr>
<tr>
<td>H316071</td>
<td>1/8&quot;-27 PTF Spl Extra Short (M)</td>
<td>1/8&quot;-27 PTF Spl. Extra Short (F)</td>
<td>90°</td>
<td>.82&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
</tbody>
</table>

---

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Extensions are used to provide additional clearance for grease fittings in hard to reach areas. Call our Sales Team today for custom lengths manufactured for your specific application.

**H336551**
Straight Extension
Female (X) - 1/4" - 28 UNF
Male (Y) - 1/4" - 28 SAE-LT

**H43761**
Straight Extension
Female (X) - 1/8" - 27 NPTF
Male (Y) - 1/8" - 27 NPTF

**H43761B**
Straight Extension
Female (X) - 1/8" - 27 NPT
Male (Y) - 1/8" - 27 NPT

**H43763**
Straight Extension
Female (X) - 1/8" - 27 NPTF
Male (Y) - 1/8" - 27 NPTF

**H43762**
Straight Extension
Female (X) - 1/8" - 27 NPTF
Male (Y) - 1/8" - 27 NPTF

**H11348**
Straight Extension
Female (X) - 1/4" - 18 NPTF
Male (Y) - 1/4" - 18 NPTF

---

### Technical Drawings

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Unlike other connectors, bushings are specifically designed to adapt two threads without adding additional length. In addition to standard adapter uses, bushings can be used when a stripped hole must be drilled and tapped to the next largest size, allowing the housing or bearing to be salvaged.

**Technical Drawings are Approximate Actual Size**

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### ALTERNATE MATERIALS AND DESIGNS AVAILABLE UPON REQUEST.

**CALL OUR SALES TEAM TODAY!**

**SPECIAL PARTS**

**With Wrenching Flats**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H45120Z3</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H40996</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>.72&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>H112</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPSI (F)</td>
<td>Straight</td>
<td>.53&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>H51891</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>H131586</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>H12287</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/2&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>1.13&quot;</td>
<td>15/16&quot;</td>
</tr>
<tr>
<td>H113</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/8&quot;-27 NPSI (F)</td>
<td>Straight</td>
<td>.66&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

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BUSHINGS

Bushings are like “compact adapters.” Zinc clear plating is standard for bushings. Alternate platings and materials available by request.

H67171
Straight Bushing
Female (X) - 1/2"-14 NPTF
Male (Y) - 3/4"-14 NPTF

H320354
Straight Bushing
Female (X) - 1/2"-14 NPTF
Male (Y) - 1"-11-1/2 NPTF

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Retaining Rings & Clips
Pins & Wire Forms
Wave & Spring Washers
Hose Clamps
Blind Threaded Inserts
Engineered Fasteners

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REVISED 03-19
Brass bushings offer increased corrosion resistance over standard zinc-plated parts. Their corrosion resistance lends them to use in such applications as single-point lubrication systems and compressed air lines. Brass parts are less likely to seize than standard steel parts.

### Brass Bushing Specifications

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H45200B</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.65&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H45300B</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.71&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>H45500B</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>.71&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>H45400B</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.81&quot;</td>
<td>13/16&quot;</td>
</tr>
<tr>
<td>H45700B</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>.81&quot;</td>
<td>13/16&quot;</td>
</tr>
<tr>
<td>H45600B</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPSI (F)</td>
<td>Straight</td>
<td>.81&quot;</td>
<td>13/16&quot;</td>
</tr>
</tbody>
</table>

### Brass Bushing Diagrams

- **H45200B** Straight Bushing
  - Male (Y) - 1/8"-27 NPTF
  - Female (X) - 1/8"-27 NPTF

- **H45300B** Straight Bushing
  - Male (Y) - 3/8"-18 NPTF
  - Female (X) - 1/8"-27 NPTF

- **H45500B** Straight Bushing
  - Male (Y) - 3/8"-18 NPTF
  - Female (X) - 1/4"-18 NPTF

- **H45400B** Straight Bushing
  - Male (Y) - 1/2"-14 NPTF
  - Female (X) - 1/8"-27 NPTF

- **H45700B** Straight Bushing
  - Male (Y) - 1/2"-14 NPTF
  - Female (X) - 3/8"-18 NPTF

- **H45600B** Straight Bushing
  - Male (Y) - 1/2"-14 NPTF
  - Female (X) - 1/4"-18 NPSI
Male-to-male adapters are used to join two female threaded components of either similar or dissimilar thread type and size. Like other adapters, they are often used for convenience and when retrofitting newer components to older assemblies.

### H10130
**Straight Adapter**
- Male (X) - 1/8"-27 NPTF
- Male (Y) - 1/8"-27 NPTF

### H42159
**Straight Adapter**
- Male (X) - 1/2"-27 NS Taper
- Male (Y) - 1/2"-27 NS Taper

### H10772
**Straight Adapter**
- Male (X) - 1/8"-27 NPTF
- Male (Y) - 1/4"-18 NPTF

### H43379
**Straight Adapter**
- Male (X) - 1/2"-27 NS Taper
- Male (Y) - 1/4"-18 NPTF

### H327033
**Straight Adapter**
- Male (X) - 1/4"-18 NPTF
- Male (Y) - 1/4"-18 NPTF

### H327033S
**Straight Adapter**
- Male (X) - 1/4"-18 NPTF
- Male (Y) - 1/4"-18 NPTF

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Male Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H10130</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>1.00&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H42159</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.31&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H10772</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>1.18&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>H43379</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.38&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H327033</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.41&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H327033S</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.38&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>
ADAPTERS

1/2"-27 NS Taper threads are commonly used in conjunction with compressed air lines. Brass components offer increased corrosion resistance, and are less susceptible to seizure after assembly.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread</th>
<th>Male Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
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<td>H41729</td>
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<td>Straight</td>
<td>1.44&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>H44734</td>
<td>3/8&quot;-18 NPTF</td>
<td>1/2&quot;-27 NS Taper</td>
<td>Straight</td>
<td>1.38&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>H10773</td>
<td>3/8&quot;-18 NPTF</td>
<td>1/4&quot;-18 NPTF</td>
<td>Straight</td>
<td>1.45&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>H1222</td>
<td>1/8&quot;-27 NPT</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>—</td>
</tr>
<tr>
<td>H10199B</td>
<td>1/2&quot;-27 SPL-PTF</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H10202B</td>
<td>1/2&quot;-27 NPTF</td>
<td>1/2&quot;-27 SPL-PTF</td>
<td>Straight</td>
<td>1.19&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>H10198B</td>
<td>1/4&quot;-18 NPTF</td>
<td>1/2&quot;-27 SPL-PTF</td>
<td>Straight</td>
<td>1.31&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

Common Parts

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1/2" - 27 NS Taper threads are often used in conjunction with compressed air lines. Standard parts are zinc plated, but other platings are available by special order. Less common sizes, materials and thread types are available on request.

### Technical Drawings

All technical drawings are approximate actual size.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Male Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H12106</td>
<td>3/4&quot; -14 NPTF (M)</td>
<td>1/2&quot; -14 NPTF (M)</td>
<td>Straight</td>
<td>2.13&quot;</td>
<td>1-1/16&quot;</td>
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<tr>
<td>H51888</td>
<td>1/2&quot; -14 NPTF (M)</td>
<td>1/2&quot; -14 NPTF (M)</td>
<td>Straight</td>
<td>1.81&quot;</td>
<td>7/8&quot;</td>
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<tr>
<td>H307925</td>
<td>1/2&quot; -14 NPTF (M)</td>
<td>1/2&quot; -27 NS Taper (M)</td>
<td>Straight</td>
<td>1.56&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>H130552</td>
<td>1/2&quot; -14 NPTF (M)</td>
<td>1/4&quot; -18 NPTF (M)</td>
<td>Straight</td>
<td>1.59&quot;</td>
<td>7/8&quot;</td>
</tr>
</tbody>
</table>

Technical Drawings are Approximate Actual Size

- H12106: Straight Adapter
  - Male (X) - 1/2" -14 NPTF
  - Male (Y) - 1/4" -18 NPTF

- H51888: Straight Adapter
  - Male (X) - 1/2" -14 NPTF
  - Male (Y) - 1/2" -14 NPTF

- H307925: Straight Adapter
  - Male (X) - 1/2" -27 NS Taper
  - Male (Y) - 1/2" -14 NPTF

- H130552: Straight Adapter
  - Male (X) - 1/2" -14 NPTF
  - Male (Y) - 3/4" -14 NPTF
Female-to-female adapters are often used to join two pipes, creating extended pipe lengths. The H85425 is often used to extend grease gun pipes.

**H85425**
Straight Adapter
Female (X) - 1/8"-27 NPTF
Female (Y) - 1/8"-27 NPTF

**H85400**
Straight Adapter
Female (X) - 1/4"-18 NPTF
Female (Y) - 1/4"-18 NPTF

**HFEM01**
Straight Adapter
Female (X) - 1/8"-27 NPTF
Female (Y) - 1/8"-27 NPTF

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Female Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85425</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>1/8&quot;-27 NPTF (F)</td>
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<td>.75&quot;</td>
<td>5/8&quot;</td>
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<td>H85400</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.14&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>HFEM01</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.65&quot;</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

---

**H14727**
Straight Adapter
Male (X) - 1/4"-18 NPTF
Male (Y) - 3/4"-14 NPTF

**H47703**
Straight Adapter
Male (X) - 7/16"-27 UNS
Male (Y) - 1/2"-27 NS Taper

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Male Thread (Y)</th>
<th>Male Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
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</thead>
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<td>3/4&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>2.07&quot;</td>
<td>1-1/8&quot;</td>
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<tr>
<td>H47703</td>
<td>1/2&quot;-27 NS Taper(M)</td>
<td>7/16&quot;-27 UNS (M)</td>
<td>Straight</td>
<td>1.06&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>
HEADER BLOCKS

Header blocks allow for remote location of lubrication points. This drastically cuts maintenance time by allowing quick access to hard to reach fittings and ensures that hard to find points are accessed. Header blocks can be custom manufactured in a variety of sizes, designs and materials. Blocks come with fittings and connectors attached, though blocks without grease fittings or tubing connectors are available by request.

**H6135**
Header Block  
1/8" NPT  
3-Point

**H6136**
Header Block  
1/8" NPT  
6-Point

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>Inlet Thread Series</th>
<th>No. of Inlets</th>
<th>Overall Length</th>
<th>Overall Height</th>
<th>Overall Depth</th>
<th>Mounting Hole Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>H6135</td>
<td>1/8&quot; NPT</td>
<td>3</td>
<td>2.75&quot;</td>
<td>.75&quot;</td>
<td>.75&quot;</td>
<td>9/32&quot;</td>
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<tr>
<td>H6136</td>
<td>1/8&quot; NPT</td>
<td>6</td>
<td>5.75&quot;</td>
<td>.75&quot;</td>
<td>.75&quot;</td>
<td>9/32&quot;</td>
</tr>
</tbody>
</table>

**HOW THEY WORK**

Header blocks allow for one easy to access lubrication point.

Connecting parts and pipe plumbing can be used to create one lubrication service area thus saving you time and money.

**LET OUR MACHINE SHOP MAKE ANY CONFIGURATION!**
TUBING CONNECTORS

1/4" TUBING INLET

H328303
Straight Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 1/2"

H66200
Straight Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 1/2"

H66201
90° Angle Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 9/16"

1/8" TUBING INLET

H66714
Straight Tubing Connector
1/4"-28 SAE-LT
(Hex 1): 7/16" (Hex 2): 5/16"

H66415
Straight Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 5/16"

H66716
90° Angle Tubing Connector
1/4"-28 SAE-LT
(Hex 1): 7/16" (Hex 2): 5/16"

H66414
90° Angle Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 9/16"

COMPRESS NUTS

H66200
Straight Compression Nut
5/16"-24 UNS
(Hex): 5/16"

H66464
Straight Compression Nut
7/16"-24 UNS
(Hex): 1/2"

H68462
Compression Sleeve

BULKHEAD CONNECTOR

H3154Z3
Straight Bulkhead Connector
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPSM
Female (Z) - 1/4"-28 UNF
(A): 0.88" (B): 0.38" (H): 1/2"

H3155
90° Angle Bulkhead Connector
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPSM
Female (Z) - 1/4"-28 UNF
(A): 1.0" (B): 0.38" (H): 1/2"

H41054
Straight Bulkhead Connector
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPSM
Female (Z) - 1/4"-28 UNF
(A): 0.88" (B): 0.44" (H): 1/2"

H51055Z3
Bulkhead Connector Nut
1/8"-27 NPSM

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PIPE PLUGS

G.L. Huyett offers an array of pipe plugs that will meet nearly every need. Because of the many variations of style, specifications and materials, we are only listing highlights of the most commonly requested plugs in this catalog. For more information, visit www.huyett.com.

**DRIVE TYPES**

**SQUARE HEAD**

- **TYPE A**

**HEX HEAD**

- **TYPE B**

**HEX HEAD SMALL**

- **TYPE C**

**SQUARE SOCKET**

- **TYPE D**

**HEX SOCKET**

- **TYPE E**

**SLOTTED**

- **TYPE F**

**SIX LOBE**

- **TYPE G**

**HEX SOCKET, GAS**

- **TYPE H**

**7/8” TAPER FLUSH**

- **TYPE J**

**3/4” TAPER FLUSH**

- **TYPE K**

**SIZE CODES**

<table>
<thead>
<tr>
<th>INCH</th>
<th></th>
<th>METRIC</th>
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</thead>
<tbody>
<tr>
<td>1/16”</td>
<td>0062</td>
<td>6.0 mm M06</td>
</tr>
<tr>
<td>1/8”</td>
<td>0125</td>
<td>8.0 mm M08</td>
</tr>
<tr>
<td>1/4”</td>
<td>0250</td>
<td>10.0 mm M10</td>
</tr>
<tr>
<td>3/8”</td>
<td>0375</td>
<td>12.0 mm M12</td>
</tr>
<tr>
<td>1/2”</td>
<td>0500</td>
<td>14.0 mm M14</td>
</tr>
<tr>
<td>3/4”</td>
<td>0750</td>
<td>16.0 mm M16</td>
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</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1”</td>
<td>1000</td>
<td>18.0 mm M18</td>
</tr>
<tr>
<td>1-1/4”</td>
<td>1250</td>
<td>20.0 mm M20</td>
</tr>
<tr>
<td>1-1/2”</td>
<td>1500</td>
<td>22.0 mm M22</td>
</tr>
<tr>
<td>2”</td>
<td>2000</td>
<td>24.0 mm M24</td>
</tr>
<tr>
<td>2-1/2”</td>
<td>2500</td>
<td>26.0 mm M26</td>
</tr>
<tr>
<td>3”</td>
<td>3000</td>
<td>30.0 mm M30</td>
</tr>
</tbody>
</table>

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PIECE PLUGS

The specific thread design of pipe plugs can have significant functional impacts.

TAPER THREAD

3/4" TAPER SEAL

3/4" taper is the standard taper for NPT pipe threads. Plugs with these threads are not designed to install flush to the surrounding surface.

7/8" TAPER FLUSH SEAL

7/8" taper threads are unique in that they will allow the plug to install flush with the surrounding surface. These plugs can only be installed into tapered NPT or NPTF threaded holes.

DRAIN PLUGS

In addition to pipe plugs, we offer drain plugs as well. Drain plugs differ from pipe plugs in that they feature PTF-SAE Short threads. This thread profile has 1 less thread than NPTF thread profile.

Drain plugs feature PTF-SAE Short threads.

PART ORDERING CODES

<table>
<thead>
<tr>
<th>DRIVE TYPE CODES</th>
<th>SPECIFICATION CODES</th>
<th>MATERIAL CODES</th>
<th>Finish Codes</th>
</tr>
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<tbody>
<tr>
<td>Square Head</td>
<td>ASME B16.11 11</td>
<td>Low Carbon Steel LC</td>
<td>Plain PL</td>
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<tr>
<td>Hex Head</td>
<td>ASME B16.14 14</td>
<td>Alloy Steel AS</td>
<td>Black Oxide BO</td>
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<tr>
<td>Hex Head Small</td>
<td>SAE J531 31</td>
<td>Stainless Steel SS</td>
<td>Cadmium CD</td>
</tr>
<tr>
<td>Square Socket</td>
<td>7/8&quot; Taper Flush 78</td>
<td>316 Stainless Steel S6</td>
<td>Deltatone / Delta Seal DS</td>
</tr>
<tr>
<td>Hex Socket</td>
<td>DIN 906/3858 B6</td>
<td>Brass BR</td>
<td>Geomet GT</td>
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<tr>
<td>Slotted</td>
<td>DIN 909/3858 B9</td>
<td>Aluminum AL</td>
<td>Zinc Clear Trivalent Z3</td>
</tr>
<tr>
<td>Six Lobe</td>
<td>DIN 909/158 D6</td>
<td>Forged Steel FS</td>
<td>Zinc Trivalent Y3</td>
</tr>
<tr>
<td>Hex Socket For Gas</td>
<td>JIS D2101 JF</td>
<td>Cast Steel CS</td>
<td>Zinc Yellow Hexavalent Y6</td>
</tr>
<tr>
<td>7/8&quot; Taper Flush</td>
<td>JIS D2101 J9</td>
<td></td>
<td>Zinc Phosphate ZP</td>
</tr>
<tr>
<td>3/4&quot; Taper Flush</td>
<td>SS-102 02</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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# PIPE PLUGS

Governing standards notate both the design and manufacture of pipe plugs. Listed below are prevailing standards. All of our standard plugs are manufactured from carbon steel utilizing a cold forming process. Hot forged and cast plugs are available upon special request.

## SAE J531

**AUTOMOTIVE STANDARD**

This standard provides complete general and dimensional specifications for pipe, filler and drain plugs commonly used in the automotive industry. Pipe plugs specified within this standard have NPTF threads. Filler and drain plugs within this standard have PTF- SAE Short threads.

- **Cold Formed**
- **Bright/ Smooth Surface**

## ASME B16.11

**FORGED FITTING STANDARD**

This standard covers the dimensions, ratings, tolerances, marking and material requirements for forged fittings. Pipe plug designs covered by this standard are the Hex and Square head types. Even though the standard identifies NPT threads, NPTF threads are applied as these threads provide better resistance to leakage over the NPT thread design. Where hot forged plugs are required, the governing ASTM standard must be stated.

- **Forged Using Cold Heading Equipment**
- **Semi-Smooth/ Bright Surface**
- **Hot Forged Available by Special Order**

## ASME B16.14

**CAST FITTING STANDARD**

Provides technical information about plugs of certain designs manufactured from casting, ductile iron and steel. Even though the standard identifies NPT threads, NPTF threads are applied as these threads provide better resistance to leakage over the NPT thread design.

- **Cast in a Mold Available by Special Order**
- **Black/ Dingy Finish with Smooth Threads**
- **Cast Fitting Available by Special Order**

## DIN 906/158

**HEX SOCKET METRIC THREADS**

This standard governs the manufacture of Hex Socket pipe plugs with metric tapered pipe threads.

- **Cold Formed**
- **Bright/ Smooth Surface**

## DIN 906/3858

**HEX SOCKET BRITISH THREADS**

This standard governs the manufacture of Hex Socket pipe plugs with British tapered pipe threads.

- **Cold Formed**
- **Bright/ Smooth Surface**

## DIN 909/158

**SMALL HEX HEAD METRIC THREADS**

This standard governs the manufacture of Small Hex Head pipe plugs with metric tapered pipe threads.

- **Cold Formed**
- **Bright/ Smooth Surface**

## DIN 909/3858

**SMALL HEX HEAD BRITISH THREADS**

This standard governs the manufacture of Small Hex Head pipe plugs with British tapered pipe threads.

- **Cold Formed**
- **Bright/ Smooth Surface**

---

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### Inch Drive Type Options

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>Drive Type Codes</th>
</tr>
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<tbody>
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<tr>
<td>1/8&quot;-27</td>
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</tr>
<tr>
<td>1/4&quot;-18</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td>3/8&quot;-18</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td>1/2&quot;-14</td>
<td>X X X X X X X X X</td>
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<td>1&quot;-11.5</td>
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### Inch Drive Type Options, cont.

<table>
<thead>
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<td>X X X X X X X X X</td>
</tr>
<tr>
<td>2&quot;-11.5</td>
<td>X X X X X X X X X</td>
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<tr>
<td>2&quot;-1/2-8</td>
<td>X X X X X X X X X</td>
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<tr>
<td>3&quot;-8</td>
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### British Drive Type Options

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### Metric Drive Type Options

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<td>M8 x 1.0</td>
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<td>M10 x 1.5</td>
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</tr>
<tr>
<td>M12 x 1.5</td>
<td>X X X X X X X X X</td>
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<tr>
<td>M14 x 1.5</td>
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<td>M20 x 1.5</td>
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<td>M22 x 1.5</td>
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</tr>
<tr>
<td>M24 x 1.5</td>
<td>X X X X X X X X X</td>
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<tr>
<td>M26 x 1.5</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td>M30 x 1.5</td>
<td>X X X X X X X X X</td>
</tr>
</tbody>
</table>
O-RINGS

An O-Ring is a loop of elastomer with a disc-shaped cross-section, designed to be seated in a groove and compressed during assembly between two or more parts, creating a seal at the interface. O-Rings are one of the most common seals used in machine design because they are inexpensive and easy to make, reliable and have simple mounting requirements.

**SIZING**

O-Rings are denoted using a numbering system that references an Inside Diameter (ID) and Cross Section (CS).

Be careful in measuring O-Rings that are damaged or stretched from removal.

Consider using an O-Ring cone, found on page 86, for measuring.

**O-RING SEAL TYPES**

**MALE SEAL**

An O-Ring is installed in a groove that is machined into the Outside Diameter (OD) of the “piston.” The piston and the installed O-Ring are then inserted into the bore. The O-Ring seals radially.

**FEMALE SEAL**

An O-Ring is installed in a groove that is machined into the ID of the bore. The rod in then inserted into the bore through the O-Ring. The O-Ring seals radially.

**FACE SEAL**

An O-Ring is installed in a groove that is machined into a flat face around a hole. A second flat face then seals against the O-Ring. The O-Ring seals axially.

**SPECIAL O-RING SEAL TYPES**

**900 SERIES: STRAIGHT THREAD TUBE FITTING BOSSES**

900 Series O-Rings are also known as Boss Seals. These O-Rings are primarily used for hydraulic tubing and straight threads to create a seal under compression.

**Special Order**

- **QUAD / X-RINGS**
- **SQUARE RINGS**
- **BACK UP RINGS**

**DUROMETER**

Refers to the material hardness.

**FRONT VIEW**

**SIDE VIEW**

**CROSS SECTION**

**Sizing**

Cross section is also commonly referred to as the O-Ring’s width.

**Inside Diameter (ID)**

**Outside Diameter (OD)**

**Cross Section (CS)**

**Flash**

.005” max. typical

**Diameter**

.003” max. typical

**Several O-Ring seal types exist. Listed here are the most common.**

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Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

REVISI03-19
Care must be taken in choosing the right O-Ring for your application. Below are details of the materials G.L. Huyett offers. Durometer, also known as shore, is the measure of the hardness of a material. Our product line appears on the following pages. If you do not see what you are looking for contact our Sales Team. We are happy to assist you. Note: We offer select sizes in AFLAS® materials as well.

### PART NUMBERING

<table>
<thead>
<tr>
<th>Product Name (A.K.A.)</th>
<th>Material Prefix</th>
<th>Material Color</th>
<th>Material Description</th>
</tr>
</thead>
</table>
| Buna-N® also known as: NBR | OR- | BLACK | • Good resistance to petroleum based products, and some hydrocarbons & fuels.  
  • Widely used with most oils, hydraulic fluids & alcohol.  
  • Many compound variations for specific applications.  
  • The least expensive most readily available material.  
  • Poor resistance to sunlight, weathering and ozone.  
  **Offered in 70A or 90A Durometer** |
| Neoprene® also known as: Chloroprene | ORN- | BLACK | • Good resistance to petroleum oils.  
  • Low compression set and good abrasion strength.  
  • Good resistance to weathering, sunlight and ozone.  
  **Offered in 70A Durometer** |
| Viton® also known as: Fluorel Fluorocarbon | ORV- | BROWN | • Excellent temperature and chemical resistance.  
  • Excellent mechanical and physical properties.  
  • Low compression set and low gas permeability.  
  • Not for use with Acetone, Skydrol®, or Ethyl Acetate.  
  **Offered in 75A Durometer** |
| Teflon® also known as: PTFE | ORT- | WHITE | • Excellent temperature range.  
  • Resistant to various chemicals and fuels.  
  • Low coefficient of friction.  
  • Non-elastic.  
  **Offered in 55D Durometer** |
| Silicone also known as: Silastic® | ORS- | RED | • Broad temperature range.  
  • Odorless / non-toxic.  
  • Resistant to sun and ozone.  
  • Fungus resistant.  
  • Poor tear and abrasion strength.  
  • Poor resistance to petroleum oils.  
  **Offered in 70A Durometer** |
| EPDM also known as: EPT Ethylene-Propylene | ORE- | BLACK | • Resistant to sunlight, weathering and ozone.  
  • Good heat and compression set resistance.  
  • Poor resistance to petroleum oils and fuel.  
  **Offered in 70A Durometer** |
G.L. Huyett offers a variety of O-Rings and O-Ring accessories to fit your individual application. Listed below is a sample of some of the most popular O-Ring tools and assortments. Please call our Sales Team for a complete listing.

**MEASUREMENT CONE**

The O-Ring cone measures 184 of the most popular O-Ring sizes for quick and accurate identification. Sizes from 1/4" ID to 5-5/8" ID in five standard widths are easy to identify.

PART #: ORCONE

**TOOLS**

Made of brass or stainless steel, each of these tools have two working ends making it easier for the user to install or remove O-Rings without damaging the surface and risking failure. These tools come in a vinyl carrying case.

BRASS PART #: ORTOOLB

**ASSORTMENTS**

O-Ring assortments come in a variety of different sizes, quantities and materials. The DISP-OR382 shown at right includes 382 Buna-N® (70 Durometer) O-Rings, in sizes ranging from 006 - 327.

GO TO WWW.HUYETT.COM FOR A COMPLETE LISTING.

**SPlicing KIT**

The easy-to-use, handy O-Ring splicing kit delivers custom-made O-Rings when special sizes or standard varieties are not available.

STANDARD SPlicing KIT PART #: DISP-ORSPLICE

METRIC SPlicing KIT PART #: DISP-ORMSPLICE

**KIT #:**

382 PIECES RANGING FROM 006 - 327.

FOR BUNA-N®: DISP-OR382

FOR VITON®: DISP-ORV382

FOR SILICONE: DISP-ORS382

GO TO WWW.HUYETT.COM FOR MORE DETAILS.

Buna-N®, Neoprene®, and Viton® are registered trademarks of E.I. DuPont Company, Wilmington, DE, USA.
### O-RINGS - 1/16" & 3/32"

One of the most common seal designs, O-Rings are simple, round elastomer rings designed to compress between two mating parts, forming the seal. Manufactured in a variety of materials, O-Rings can be used in multiple applications. Among the most popular O-Ring materials are Buna-N®, Neoprene® and Viton®.

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</table>
### O-RINGS - 1/8" & 3/16"

While O-Rings are widely considered one of the most reliable seal types, research and testing should be done when making your material selection. Some O-Ring materials are not suited for cold weather use or may adversely react to certain solvents and other common fluids. Review the chart on page 85 to ensure you are selecting the appropriate material for your application.

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All manufacturer names and numbers are for cross reference identification purposes only. In no way are we implying that our parts were made by the manufacturers listed. Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019
™

785.392.3017

FAX

BOX 232 • MINNEAPOLIS, KS • 67467

785.392.2845

www.huyett.com

O-RINGS - 3/16" & 1/4"

AS 568

Versatility is a hallmark of the O-Ring's simple design. They may be applied in both static and dynamic applications
where they are often used to seal rotating shafts and hydraulic pistons. Metric sizes are available on request.

-469

Nominal
OD
20-1/2"

-352

5-1/4"

4-7/8"

4.850"± .030

-425

5"

4-1/2"

4.475"± .033

-470

21-1/2"

21"

20.955"± .095

-353

5-3/8"

5"

4.975"± .037

-426

5-1/8"

4-5/8"

4.600"± .033

-471

22-1/2"

22"

21.955"± .100

-354

5-1/2"

5-1/8"

5.100"± .037

-427

5-1/4"

4-3/4"

4.725"± .033

-472

23-1/2"

23"

22.940"± .105

-355

5-5/8"

5-1/4"

5.225"± .037

-428

5-3/8"

4-7/8"

4.850"± .033

-473

24-1/2"

24"

23.940"± .110

-356

5-3/4"

5-3/8"

5.350"± .037

-429

5-1/2"

5"

4.975"± .037

-474

25-1/2"

25"

24.940"± .115

-357

5-7/8"

5-1/2"

5.475"± .037

-430

5-5/8"

5-1/8"

5.100"± .037

-475

26-1/2"

26"

25.940"± .120

-358

6"

5-5/8"

5.600"± .037

-431

5-3/4"

5-1/4"

5.225"± .037

-359

6-1/8"

5-3/4"

5.725"± .037

-432

5-7/8"

5-3/8"

5.350"± .037

-360

6-1/4"

5-7/8"

5.850"± .037

-433

6"

5-1/2"

5.475"± .037

-361

6-3/8"

6"

5.975"± .037

-434

6-1/8"

5-5/8"

5.600"± .037

-362

6-5/8"

6-1/4"

6.225"± .040

-435

6-1/4"

5-3/4"

5.725"± .037

-901

.056

3/32"

.185"± .005

-363

6-7/8"

6-1/2"

6.475"± .040

-436

6-3/8"

5-7/8"

5.850"± .037

-902

.064

1/8"

.239"± .005

-364

7-1/8"

6-3/4"

6.725"± .040

-437

6-1/2"

6"

5.975"± .037

-903

.064

3/16"

.301"± .005

-365

7-3/8"

7"

6.975"± .040

-438

6-3/4"

6-1/4"

6.225"± .040

-904

.072

1/4"

.351"± .005

-366

7-5/8"

7-1/4"

7.225"± .045

-439

7"

6-1/2"

6.475"± .040

-905

.072

5/16"

.414"± .005

-367

7-7/8"

7-1/2"

7.475"± .045

-440

7-1/4"

6-3/4"

6.725"± .040

-906

.078

3/8"

.468"± .005

-368

8-1/8"

7-3/4"

7.725"± .045

-441

7-1/2"

7"

6.975"± .040

-907

.082

7/16"

.530"± .007

-369

8-3/8"

8"

7.975"± .045

-442

7-3/4"

7-1/4"

7.225"± .045

-908

.087

1/2"

.644"± .009

-370

8-5/8"

8-1/4"

8.225"± .050

-443

8"

7-1/2"

7.475"± .045

-909

.097

9/16"

.706"± .009

-371

8-7/8"

8-1/2"

8.475"± .050

-444

8-1/4"

7-3/4"

7.725"± .045

-910

.097

5/8"

.755"± .009

-372

9-1/8"

8-3/4"

8.725"± .050

-445

8-1/2"

8"

7.975"± .045

-911

.116

11/16"

.863"± .009

-373

9-3/8"

9"

8.975"± .050

-446

9"

8-1/2"

8.475"± .055

-912

.116

3/4"

.924"± .009

-374

9-5/8"

9-1/4"

9.225"± .055

-447

9-1/2"

9"

8.975"± .055

-913

.116

13/16"

.986"± .010

-375

9-7/8"

9-1/2"

9.475"± .055

-448

10"

9-1/2"

9.475"± .055

-914

.116

7/8"

1.047"± .010

-376

10-1/8"

9-3/4"

9.725"± .055

-449

10-1/2"

10"

9.975"± .055

-916

.116

1"

1.171"± .010

-377

10-3/8"

10"

9.975"± .055

-450

11"

10-1/2"

10.475"± .060

-918

.116

1-1/8"

1.355"± .012

-378

10-7/8"

10-1/2"

10.475"± .060

-451

11-1/2"

11"

10.975"± .060

-920

.118

1-1/4"

1.475"± .014

-379

11-3/8"

11"

10.975"± .060

-452

12"

11-1/2"

11.475"± .060

-924

.118

1-1/2"

1.720"± .014

-380

11-7/8"

11-1/2"

11.475"± .065

-453

12-1/2"

12"

11.975"± .060

-928

.118

1-3/4"

2.090"± .018

-381

12-3/8"

12"

11.975"± .065

-454

13"

12-1/2"

12.475"± .060

-932

.118

2"

2.337"± .018

-382

13-3/8"

13"

12.975"± .065

-455

13-1/2"

13"

12.975"± .060

-383

14-3/8"

14"

13.975"± .070

-456

14"

13-1/2"

13.475"± .070

-384

15-3/8"

15"

14.975"± .070

-457

14-1/2"

14"

13.975"± .070

-385

16-3/8"

16"

15.955"± .075

-458

15"

14-1/2"

14.475"± .070

-386

17-3/8"

17"

16.955"± .080

-459

15-1/2"

15"

14.975"± .070

-387

18-3/8"

18"

17.955"± .085

-460

16"

15-1/2"

15.475"± .070

-388

19-3/8"

19"

18.955"± .090

-461

16-1/2"

16"

15.955"± .075

-389

20-3/8"

20"

19.955"± .095

-462

17"

16-1/2"

16.455"± .075

-390

21-3/8"

21"

20.955"± .095

-463

17-1/2"

17"

16.955"± .080

-391

22-3/8"

22"

21.955"± .100

-464

18"

17-1/2"

17.455"± .085

-392

23-3/8"

23"

22.940"± .105

-465

18-1/2"

18"

17.955"± .085

-393

24-3/8"

24"

23.940"± .110

-466

19"

18-1/2"

18.455"± .085

-394

25-3/8"

25"

24.940"± .115

-467

19-1/2"

19"

18.955"± .090

-395

26-3/8"

26"

25.940"± .120

-468

20"

19-1/2"

19.455"± .090

Item#

Nominal
Nominal
Actual ID
OD
ID
CS: 3/16" ( .210" Actual) cont.

O-RINGS

Item#

Nominal
Nominal
Actual ID
OD
ID
CS: 1/4" ( .275" Actual)

Item#

Nominal
ID
20"

19.955"± .095

Actual ID

Cross
Tube Size
Tolerance ID
Section
OD
900 Series: Straight Thread Tube Fitting Bosses

Item#

(See page 84 for more details.)

Pl ea se no te ...
METRIC O-RINGS ARE
ALSO AVAILABLE.
CALL OUR SALES TEAM OR
VISIT WWW.HUYETT.COM TODAY
FOR MORE INFORMATION
ON OUR EXTENSIVE LIST
OF METRIC O-RINGS!

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REVISED 03-19

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There are many different types and designs of grease guns and we offer lever, pistol, cordless and pneumatic grease guns. We have a gun for practically any application.

**LEVER GUN**

Our standard lever gun is not only economical, but also provides the most volume per stroke as compared to other manual guns. A full range of interchangeable / customized features are available to suit your individual application.

**PISTOL-GRIP GUN**

Pistol-grip guns are good for use in close-clearance areas. Using just one hand, grease is pumped via a simple squeeze. Pistol-grip guns typically dispense less grease per stroke than a standard two-handed lever gun.

**CORDLESS GUN**

Cordless guns use rechargeable Lithium-ion batteries for complete portability and ease of use. Huyett guns come equipped with a carrying case and two batteries for extended use.

**PNEUMATIC GUN**

Pneumatic guns use an air supply allowing continuous delivery of grease. They are effective when paired with bulk loading equipment for high volume applications.
GREASE GUN SELECTION

As with any tool, care should be taken in selecting the right grease gun for the application. Over-lubrication or utilization of the wrong grease can damage the tool or the bearing. Also, the grease itself can be a health concern if allowed to penetrate the skin. Below are some guidelines for the selection of a grease gun.

**APPLICATION**
First, DEFINE the USE. Will the grease gun be used in confined spaces or open spaces? How often will it be used? What kind of grease will be used?

SELECTING THE PROPER GUN TYPE FOR YOUR APPLICATION IS CRUCIAL.

**PRESSURE**
Second, ASSESS PRESSURE REQUIREMENTS. What pressure is needed to open and dispense grease in the application? High pressure is needed to "unfreeze" clogged fittings with heavy lubricants or in cold weather.

PLEASE ENSURE THAT THE GREASE GUN YOU CHOOSE HAS THE APPROPRIATE PRESSURE FOR YOUR APPLICATION.

**ACCESSIBILITY**
Next, DETERMINE SPACE, CLEARANCE and ACCESSIBILITY. The gun design must allow a compatible coupler to access the greasing point and provide hand operation.

CONSIDER ADDING ACCESSORIES TO OPTIMIZE THE POTENTIAL OF THE GUN.

**RELOADING**
Lastly, CONSIDER REFILLING OPTIONS. Bulk, cartridge or suction load? Once defined, be sure your grease gun has the proper specifications for refilling.

THESE LOADING OPTIONS ARE DETAILED FURTHER ON PAGES 92-93.
GREASE GUN LOADING

Grease guns are typically loaded in three ways: cartridge, suction and bulk load. The following pages detail these methods to help you choose the grease gun and accessories best suited for your application.

**CARTRIDGE LOAD**

The grease gun is filled using packaged cartridges. Such cartridges are convenient but are more costly than bulk load and impose a greater negative environmental impact.

Grease cartridges are convenient but have an adverse environmental impact from disposable cartridges.

**HOW TO LOAD A CARTRIDGE**

1. **PULL PLUNGER BACK, & LOCK IN PLACE.**
   - Seals to prevent leakage and contamination

2. **REMOVE PLASTIC CAP**
   - from new grease cartridge & insert into gun face down.

3. **ONCE THE CARTRIDGE IS INSERTED,**
   - Remove flip-top lid facing towards the top of the gun. Replace grease gun head.

4. **RELEASE PLUNGER LOCK.**
   - Pump lever several times to prime.

**SUCTION LOAD**

Suction load means the grease gun is filled manually from a bulk drum by inserting the end of the gun into grease and pulling up on the handle. This method is best suited for lighter grade grease as it tends to be difficult to extract heavy grease.

A messy & inexpensive yet strenuous method to reload a grease gun.

Suction loading is one of two inexpensive methods of reloading a grease gun by manually filling with bulk grease.

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REVISED 03-19
GREEN GUN LOADING

We offer a complete line of handling and bulk fill accessories. If you do not see what you are looking for contact our Sales Team for a quote.

BULK LOAD

Bulk loading is the easiest, cleanest and most cost effective method of reloading a grease gun. Using bulk loading to reload your gun will necessitate purchasing the following items:

- **Bulk Loader Fittings** - See page 115
- **Air Bleeder Valve** - See page 115
- **Bulk Loader Couplers** - See page 115
- **Bulk Filler Pumps** - See page 114
- **Follower Plates** - See page 114

Bulk Loader Fittings provide an easy, clean and cost effective method for reloading a grease gun.

Air Bleeder valves assist in grease gun priming.

HOW TO BULK LOAD

A barrel pump is installed onto a pail of grease. The grease gun’s loader fitting is pressed onto the loader coupler on the pump. As grease transfers, some air may enter the gun which may be vented by the air bleeder valve. The follower plate will minimize air pockets in the bulk grease.

Barrel pump lever is used to transfer grease from pail or drum to grease gun.

Bulk Loader Fitting of grease gun is mated with loader coupler on barrel pump.

Follower plate minimizes air pockets in the grease.

Barrel pump installed onto 5-gal. pail of bulk grease.

Air bleeder valves assist in grease gun priming.

BULK LOADER FITTINGS PROVIDE AN EASY, CLEAN AND COST EFFECTIVE METHOD FOR RELOADING A GREASE GUN.
**SUPER DUTY - LEVER GREASE GUN**

The H81650 is constructed from heavy gauge material and has a precision manufactured plunger and screw handle design. These guns should be used with care and caution. This gun can be used to “unfreeze” plunger or service special high pressure applications. Weighing in at a whopping 11.5 pounds unfilled, consider this gun for special use, able to dispense even the most viscous lubricants.

**H81650**

Lever Grease Gun - Super Duty
12 oz. Cylinder Capacity
1/4”-18 NPT Gun Only *
15,000 psi

**Product Information**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cylinder Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81650</td>
<td>Lever - Super Duty</td>
<td>12 oz.</td>
<td>1 oz. / 18 strokes</td>
<td>1/4”-18 NPT</td>
<td>15,000 psi</td>
<td>11.5 lbs.</td>
</tr>
</tbody>
</table>

**Super High Pressure: Use with Caution**

High pressures can cause catastrophic failures and pose a secondary injury risk.

---

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HEAVY DUTY - LEVER GREASE GUN

The H81600 heavy duty grease gun's rugged cast iron head offers an increased reliability in the field and will withstand the most severe conditions. Constructed of thick-wall steel, the textured zinc plated barrel is more resistant to impact and corrosion than standard grease guns.

H81600
Lever Grease Gun - Heavy Duty
14 oz. Cartridge Capacity
1/8" - 27 NPT with Pipe & Coupler
10,000 psi

10,000 PSI

14 OZ. CARTRIDGE CAPACITY

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81600</td>
<td>Lever - Heavy Duty</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1 oz. / 28 strokes</td>
<td>1/8&quot; - 27 NPT</td>
<td>10,000 psi</td>
<td>3.9 lbs.</td>
</tr>
</tbody>
</table>

HEAVY DUTY FOLLOWER SPRING

HEAD DESIGN INCORPORATES A BULK LOADER VALVE & AIR BLEEDER VALVE

LARGE ROLLED THREADS

TEXTURED ZINC PLATED BARREL

4 JAW COUPLER

CAST IRON HEAD

LOCK LEVER ALLOWS USER TO EASILY LOCK PLUNGER ROD IN ANY POSITION

CONSIDER THIS...

ECONOMY PERIODIC USAGE

PROFESSIONAL WEEKLY USAGE

HEAVY DUTY DAILY USAGE

DUTY REFERS TO THE DESIGN & CONSTRUCTION MATERIALS USED TO MANUFACTURE THE GUN. HEAVY DUTY GUNS HAVE CAST HEADS, THICK WALLED CONSTRUCTION AND SUPERIOR OPERATING COMPONENTS AS OPPOSED TO ECONOMY GRADES.

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**HIGH CAPACITY- LEVER GREASE GUN**

With a longer 24 oz. capacity barrel, this professional grade gun will suit any job and can be bulk loaded or used with a 14 oz. cartridge. The H81125 is ideal for frequent use and high consumption service.

**H81125**
Lever Grease Gun - High Capacity
24 oz. Bulk Capacity
1/8"-27 NPT with Pipe & Coupler
10,000 psi

**DESIGN FEATURE**

**VARIABLE STROKE**

Traditional grease guns require a full stroke to generate lubricant pressure, but variable stroke guns generate full pressure with only a partial stroke—a necessity in confined workspaces.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81125</td>
<td>Lever - High Capacity</td>
<td>14 oz. (400 gms)</td>
<td>24 oz.</td>
<td>1 oz. / 28 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>10,000 psi</td>
<td>4.0 lbs.</td>
</tr>
</tbody>
</table>
The H81100 and H81025 with thick-walled construction, cast aluminum head and powder coated nonslip barrel are outstanding models for standard use in industrial applications. The H81025 is a metric grease gun with M10 size pipe and coupler.

H81100
Lever Grease Gun - Professional
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
10,000 psi

H81025
Lever - Euro Pro
14 oz. (400 gms) 1 oz. / 28 strokes M10 x 1.0 10,000 psi 3.5 lbs.

LEVER GREASE GUN
10,000 PSI

PER 28 STROKES

14 OZ
CARTRIDGE CAPACITY

10,000 PSI

BULK LOADER VALVE
USED TO BULK FILL

AIR BLEEDER VALVE
allows trapped air to escape

HEAD DESIGN

Common Parts
Parts with this designation are in wide distribution.

Alemite®
Alemite is a registered trademark of Alemite, Inc., Johnson City, TN, USA.

Lincoln Industrial®
Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

John Deere®
John Deere is a registered trademark of Deere and Company, Moline, Illinois.
For those applications requiring large volumes of grease, the H81550 is ideal. Our high volume gun delivers 1.5 times more volume per stroke than most grease guns while still maintaining pressures up to 10,000 psi.

**H81550**

Lever Grease Gun - High Volume
14 oz. Cartridge Capacity
1/8”-27 NPT with Pipe & Coupler
10,000 psi

**Design Feature**

- The unique lock lever allows the user to lock the plunger in any position.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81550</td>
<td>Lever - High Volume</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1 oz. / 19 strokes</td>
<td>1/8”-27 NPT</td>
<td>10,000 psi</td>
<td>3.9 lbs.</td>
</tr>
</tbody>
</table>

**Cartridge Load**

DELIVERS 1.5 TIMES MORE VOLUME PER STROKE THAN MOST GREASE GUNS

**Suction Load**

**Bulk Load**

**Variable Stroke**

**Product Information**

- **10,000 PSI**
- **Nonslip textured finish**
- **Lock lever allows user to easily lock plunger rod in any position**
- **Cast aluminum grease gun head incorporates a bulk loader valve**

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ECONOMY - LEVER GREASE GUN

Our economy grease gun is our base model, designed for use in general lubrication and occasional maintenance work. To release excess air, turn the gun head a half-turn. This gun is powder coated for a durable finish.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81000</td>
<td>Lever - Economy</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1 oz. / 28 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>6,000 psi</td>
<td>4.0 lbs.</td>
</tr>
</tbody>
</table>

CUSTOMERS ALSO BOUGHT...

COUPLERS

OUR COMPLETE LINE BEGINS ON PAGE 118

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ACCESSORIES

Grease fitting caps and Grease Skins™ are beneficial in coordinating your maintenance schedule. They assist in ensuring that you use the proper grease while servicing your machinery.

GREASE SKINS™

Please Note

When used in conjunction with colored grease caps, Grease Skins™ simplify maintenance by color coding lubrication requirements. Color coding quickly identifies special procedure parts, protecting valuable equipment from contamination caused by mismatched lubricants. The sturdy yet flexible PVC sleeves also provide a clear writing surface for additional identification.

Grease Skins™ come in a variety of colors.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>H88204</td>
<td>Red</td>
</tr>
<tr>
<td>H88206</td>
<td>Yellow</td>
</tr>
<tr>
<td>H88207</td>
<td>Blue</td>
</tr>
</tbody>
</table>

COLOR MATCH TO CAPS!

GREASE FITTING CAPS

Please Note

Grease fitting caps can serve several purposes. Caps prevent contamination by covering the greasing nipple entirely. The most common use for caps is to plan maintenance and distinguish which fittings to lubricate and when.

Color match with Grease Skins™ for a comprehensive PPM Program.

Grease fitting caps come in a variety of colors and in either dome or tab styles.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Style</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>H88002</td>
<td>Dome</td>
<td>Black</td>
</tr>
<tr>
<td>H88003</td>
<td>Dome</td>
<td>White</td>
</tr>
<tr>
<td>H88004</td>
<td>Dome</td>
<td>Red</td>
</tr>
<tr>
<td>H88005</td>
<td>Dome</td>
<td>Green</td>
</tr>
<tr>
<td>H88006</td>
<td>Dome</td>
<td>Yellow</td>
</tr>
<tr>
<td>H88007</td>
<td>Dome</td>
<td>Blue</td>
</tr>
<tr>
<td>H88102</td>
<td>Tab</td>
<td>Black</td>
</tr>
<tr>
<td>H88103</td>
<td>Tab</td>
<td>White</td>
</tr>
<tr>
<td>H88104</td>
<td>Tab</td>
<td>Red</td>
</tr>
<tr>
<td>H88105</td>
<td>Tab</td>
<td>Green</td>
</tr>
<tr>
<td>H88106</td>
<td>Tab</td>
<td>Yellow</td>
</tr>
<tr>
<td>H88107</td>
<td>Tab</td>
<td>Blue</td>
</tr>
</tbody>
</table>

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SUCTION GUNS

The H81400 suction gun is designed to add or remove lubricants into and out of differentials, transfer cases, and gear boxes. Their sturdy steel barrel and deluxe lip seal require no priming. The H81405 dual direction transfer gun pumps out and draws in fluids in a single stroke. It is constructed of heavy aluminum with Viton® piston rings. It comes with two 4’ vinyl hose sections.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Series</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Hose Length</th>
<th>Hose Material</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81400 Suction Gun</td>
<td>16 oz.</td>
<td>16 oz. / 1 stroke</td>
<td>12” Hose</td>
<td>Flexible Vinyl</td>
<td>1.9 lbs.</td>
<td></td>
</tr>
<tr>
<td>H81405 Transfer Suction Gun</td>
<td>12 oz.</td>
<td>12 oz. / 1 stroke</td>
<td>4’ Hose (x2)</td>
<td>Flexible Vinyl</td>
<td>2.9 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

Use with non-corrosive liquids

NONSLIP TEXTURED FINISH

Common Parts

- Parts with this designation are in wide distribution.
- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

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Viton® is a Registered Trademark of E. I. DuPont Company, Wilmington, DE, USA.
Small enough to carry in your pocket! The push type gun is ideal for point-of-use applications. Carry in your toolbox for service of lawn mowers, pallet trucks, ATV’s, autos, trucks, boats and jet skis. For a complete listing of our push type grease guns, please visit www.huyett.com.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Grease Included</th>
<th>Bulk Capacity</th>
<th>Overall Length</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81780-01</td>
<td>Vandal™ - Push Type - 1 oz.</td>
<td>No Grease</td>
<td>1 oz.</td>
<td>6-1/2&quot;</td>
<td>1,000 psi</td>
<td>.7 lbs.</td>
</tr>
<tr>
<td>H81780G-01</td>
<td>Vandal™ - Push Type - 1 oz.</td>
<td>General Purpose</td>
<td>1 oz.</td>
<td>6-1/2&quot;</td>
<td>1,000 psi</td>
<td>.8 lbs.</td>
</tr>
<tr>
<td>H81761-02</td>
<td>Vandal™ - Push Type - 2 oz.</td>
<td>No Grease</td>
<td>2 oz.</td>
<td>6-1/2&quot;</td>
<td>290 psi</td>
<td>.2 lbs.</td>
</tr>
<tr>
<td>H81770G-02</td>
<td>Vandal™ - Push Type - 2 oz.</td>
<td>General Purpose</td>
<td>2 oz.</td>
<td>6-1/2&quot;</td>
<td>3,700 psi</td>
<td>.3 lbs.</td>
</tr>
</tbody>
</table>
Push type grease guns are good for working in confined areas where lever guns are inconvenient and cannot be used. The compact size allows them to easily fit into toolboxes for easy storage. We have two tip designs for flush fittings or standard nipple fittings. Spring primed push type grease guns are available as a special order.

### Item # | Grease Gun | Series | Bulk Capacity | Overall Height | Overall Width | Maximum Pressure | Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H81750</td>
<td>Push Type - for flush type fittings</td>
<td>3 oz.</td>
<td>4-3/4&quot;</td>
<td>6&quot;</td>
<td>3,000 psi</td>
<td>.6 lbs.</td>
<td></td>
</tr>
<tr>
<td>H81751</td>
<td>Push Type - for hydraulic fittings</td>
<td>3 oz.</td>
<td>6-1/2&quot;</td>
<td>7&quot;</td>
<td>3,000 psi</td>
<td>.6 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

**PLEASE NOTE**

Spring primed push type

**Available as a special order**

Works like a lever type gun

---

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Our standard pistol type grease gun is our most popular one-hand operated gun and is designed for use in confined spaces or where access to the grease nipple is restricted. These guns are made with heavy-duty aluminum die cast heads and super strong pistol grip handles designed to prevent your fingers from being pinched.

**H81150**
- Pistol Grease Gun - Deluxe
- 14 oz. Cartridge Capacity
- 1/8"-27 NPT with Pipe & Coupler
- 5,000 psi

**H81050**
- Pistol Grease Gun - Standard
- 14 oz. Cartridge Capacity
- 1/8"-27 NPT with Pipe & Coupler
- 5,000 psi

**H81050 (STANDARD)**
- Head fitted with steel block plug
- Rubber grip
- Head fitted with steel block plug

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81150</td>
<td>Pistol Grip - Deluxe</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>0.7 oz. / 40 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>5,000 psi</td>
<td>3.1 lbs.</td>
</tr>
<tr>
<td>H81050</td>
<td>Pistol Grip - Standard</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>0.7 oz. / 40 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>5,000 psi</td>
<td>3.1 lbs.</td>
</tr>
</tbody>
</table>

**CUSTOMERS ALSO BOUGHT**
- Grease Gun Holder
- Grease Gun Light

ORDER #: H86250
GREASE GUN HOLDER
MOUNTS TO RIGID SURFACE NEAR SERVICE LOCATION TO IMPROVE EFFICIENCY

ORDER #: HLED55015B
GREASE GUN LIGHT
LED LIGHT WITH BATTERIES AND MOUNTING CLAMP FOR GREASE GUN STEEL EXTENSION OR HOSE

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The H81145 is used for greasing in confined spaces or where access to grease nipple is restricted. The gun incorporates a unique variable stroke feature, not common with pistol grease guns, which allows the gun to reach increased greasing pressures from short strokes and high greasing volumes from full strokes.

### H81145

**Pistol Grease Gun - Professional**

- 14 oz. Cartridge Capacity
- 1/8"-27 NPT with Hose & Coupler
- 7,500 psi

**Design Feature**

- **One-Hand Operation:**
  - Hold and squeeze trigger with one hand
  - Your other hand is free

- **Two-Hand Operation:**
  - One hand is used to pump lever
  - Hold and stabilize the gun with your other hand

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81145</td>
<td>Pistol Grip - Pro</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1 oz. / 40 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,500 psi</td>
<td>3.9 lbs.</td>
</tr>
</tbody>
</table>

**Common Parts**

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Our popular mini pistol grease gun is a compact toolbox size gun, ideal for those hard to reach jobs. The H81350 is a one-hand pistol grip grease gun with a push type operating mechanism. The head is made from aluminum die cast and the barrel has a textured powder coat finish for a non-slip grip.

### H81350

**Mini Pistol Grease Gun**
- **3 oz. Cartridge Capacity**
- **1/8”-27 NPT with Pipe & Coupler**
- **3,000 psi**

**Design Feature**
- **H81350 “STANDARD”** features a “Push” style lever that you push with your palm.
- **H81300 “DELUXE”** features a finger “Pull” style lever.

**Specifications**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81350</td>
<td>Mini Pistol Grip</td>
<td>3 oz. (85 gms)</td>
<td>0.6 oz. / 40 strokes</td>
<td>1/8”-27 NPT</td>
<td>3,000 psi</td>
<td>1.5 lbs.</td>
</tr>
</tbody>
</table>

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**MINI DELUXE - PISTOL-GRIP GREASE GUN**

Our H81300 is a one-hand pistol-grip grease gun with a convenient pull type operating mechanism. The aluminum die cast head incorporates two discharge ports — the commonly used front port for regular greasing and a top port used with a flexible hose for greasing in hard-to-access areas.

**H81300**

Mini Pistol Grease Gun - Deluxe
3 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
3,500 psi

**FLEXIBLE HOSE USE**

Requires repositioning of the port nut

Attach flex hose here

Relocate port nut here

**Common Parts**

Parts with this designation are in wide distribution.

**Alemite®**

Alemite®, a registered trademark of Alemite, LLC, Johnson City, TN, USA.

**Lincoln Industrial®**

Lincoln Industrial®, a registered trademark of Lincoln Industrial (USA) Corp.

**John Deere®**

John Deere®, a registered trademark of Deere and Company, Moline, Illinois.

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Our pneumatic grease guns are ideal for use in factory maintenance, agricultural applications, fleet service or for use on trucks connected to vehicle air brake compressors. This air gun operates on a pressure ratio of 40:1 with an air compressor volume of 1 cfm / 0.026 cubic meters and above. The H81250 is an automatic gun which provides continuous bursts of grease when the trigger is compressed. A semi-automatic gun, the H81200 discharges a single burst of grease each time the trigger is compressed.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H81250</td>
<td>Pneumatic - Continuous Flow</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1.3 oz. / 40 cycles</td>
<td>1/8”-27 NPT</td>
<td>4,800 psi</td>
<td>4.7 lbs.</td>
</tr>
<tr>
<td>H81200</td>
<td>Pneumatic - Intermittent</td>
<td>14 oz. (400 gms)</td>
<td>16 oz.</td>
<td>1.3 oz. / 40 cycles</td>
<td>1/8”-27 NPT</td>
<td>4,800 psi</td>
<td>4.7 lbs.</td>
</tr>
</tbody>
</table>

**Design Feature**

**Continuous Grease Flow**
Holding trigger provides automatic bursts of grease

**Intermittent Grease Flow**
Pressing trigger provides a "shot" of grease
Our high power air operated grease gun is designed with the grease cylinder on top for optimal balance. Ideal for use in factory maintenance, agricultural applications, fleet service or for use on vehicle air brake compressors. This high power air gun has a pressure ratio of 50:1 with an air compressor volume of 1 cfm / 0.026 cubic meters and above.

**H81255**
Pneumatic Grease Gun - Intermittent
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
6,000 psi

**CUSTOMERS ALSO BOUGHT**

**PNEUMATIC FLEXIBLE HOSES**

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Spring Washers, Wave Washers, & Belleville Washers

ARaymond

Shakeproof Group
Clevis Pins, Lanyards, & Helical Spring Lock Washers

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AVK
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Lincoln
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Spirol
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Rotor Clip
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Lever action grease bucket pumps bring portability to high volume field applications. They are ideal for agricultural and industrial machinery. Use both indoors and out. To operate, apply coupler to grease fitting and cycle lever to dispense grease.

**Lever Grease Bucket Pump - High Vol.**
22 lb. Capacity Drum
4,000 psi / 2000 psi Variable

**Item #**  H89400
**Description**  Lever Grease Bucket Pump - High Vol.
**Drum Size**  22 lb. Capacity
**Stroke Delivery**  .14 oz. / stroke & .25 oz. / stroke
**Working PSI**  4,000 psi / 2,000 psi Variable
**Packaged Weight**  17.6 lbs.

**Specifications**
- **Rugged Die Cast Aluminum Pump**
- **Ergonomic Rubber Grip**
- **Spring Loaded Steel Follower Plate**
- **Adjustable Handle Setting for 2,000 / 4,000 PSI Operation**
- **Equipped with Wheels for Users on the Go**
- **Swivel Connector Prevents Kinking and Aids in Maneuverability**

**Common Parts**
- Parts with this designation are in stock distribution.

**Trademarks**
- Alemit®
- Lincoln Industrial®
- John Deere®

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High pressure pneumatic grease pumps are designed for users with high volume greasing needs. Designed for use with standard 16 gallon grease drums and coupled with a dry compressed air line, these 50:1 ratio pumps can satisfy the demands for even the heaviest lubrication applications.

**H89350**
50:1 Grease Pump
Fits 16 gal. Drum
7,500 Max Operating Pressure

**Item #** | **Description** | **Air Inlet Threads** | **Outlet Threads** | **Drum Size** | **Max Operating Pressure** | **Packaged Weight**
--- | --- | --- | --- | --- | --- | ---
H89350 | 50:1 Grease Pump | 1/4"-18 NPTF | 1/4"-18 NPTF | Fits 16 gal. | 7,500 psi | 22.8 lbs.

**PLEASE NOTE**
Control valves and swivels may be ordered separately, contact our sales team for assistance.

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Bulk filling saves time and the environment by eliminating the need for wasteful and expensive disposable grease cartridges. Operate by simply pushing the male bulk filler fitting attached to a grease gun into the female bulk loader coupler attached to the pump.

**Item #** | **Description** | **Inlet Thread** | **Drum Size** | **Drum Cover Size** | **Follower Plate Diameter** | **Packaged Weight**
---|---|---|---|---|---|---
H89300 Grease Bulk Filler Pump — Fits 5 Gallon 12" 7.7 lbs.
Special Order Follower Plate — — — 12" —

**EQUIPPED FOR BULK LOAD**

- H81600 Page 95
- H81100 Page 97
- H81125 Page 96
- H81025 Page 97
- H81550 Page 98
- H81255 Page 109
- H8150 Page 104

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REVISED 03-19
SPARE PARTS

Bulk loader couplers connect to a bulk grease drum and allow for bulk filling a grease gun. The bulk loader fitting, which is mounted in the end of a grease gun, has a built-in ball check to reduce contamination of grease in-between refills.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Thread</th>
<th>Overall Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H86150</td>
<td>Bulk Loader Coupler</td>
<td>3/8&quot;-18 NPT</td>
<td>2-9/16&quot;</td>
<td>.48&quot; Straight</td>
</tr>
<tr>
<td>H86160</td>
<td>Bulk Loader Coupler</td>
<td>1/4&quot;-18 NPT</td>
<td>1-3/8&quot;</td>
<td>.58&quot; Taper</td>
</tr>
<tr>
<td>H86170</td>
<td>Bulk Loader Coupler</td>
<td>1/4&quot;-18 NPT</td>
<td>2&quot;</td>
<td>.58&quot; Taper &amp; .34&quot; Straight</td>
</tr>
<tr>
<td>H86000</td>
<td>Bulk Loader Coupler</td>
<td>1/8&quot;-27 NPT</td>
<td>1-1/4&quot;</td>
<td>.48&quot; Straight</td>
</tr>
<tr>
<td>H86020</td>
<td>Bulk Loader Fitting</td>
<td>1/8&quot;-27 NPT</td>
<td>1-13/64&quot;</td>
<td>.58&quot; Taper</td>
</tr>
<tr>
<td>H86040</td>
<td>Bulk Loader Fitting</td>
<td>1/8&quot;-27 NPT</td>
<td>1-1/4&quot;</td>
<td>.34&quot; Straight</td>
</tr>
</tbody>
</table>

AIR BLEEDER VALVE

Air Bleeder Valve
1/8"-27 NPTF
A: 1.20"
B: .44"
H: 7/16"

PRODUCT FEATURE

Air Bleeder Valves assist in grease gun priming by releasing entrapped air in the gun barrel.

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STANDARD HOSES

Made of thermoplastic construction with a 9/64" ID and 21/64" OD, these hoses are suitable for hand operated grease guns. Custom lengths are available, call our Sales Team for details. To prevent hose kinking, order the spring mount version.

**DIAGRAM**

Flexible Grease Hose - Standard
1/8”-27 NPTF
3,000 psi

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread  (X)</th>
<th>Thread  (Y)</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H82008</td>
<td>Grease Hose Assembly - Standard</td>
<td>8&quot;</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82012</td>
<td>Grease Hose Assembly - Standard</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82018</td>
<td>Grease Hose Assembly - Standard</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82052</td>
<td>Grease Hose Assembly - Standard</td>
<td>12&quot;</td>
<td>Hand</td>
<td>M10 x 1.0</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82012P</td>
<td>Grease Hose Assembly - Standard with Spring</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82018P</td>
<td>Grease Hose Assembly - Standard with Spring</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
<tr>
<td>H82052P</td>
<td>Grease Hose Assembly - Standard with Spring</td>
<td>12&quot;</td>
<td>Hand</td>
<td>M10 x 1.0</td>
<td>3,000 psi</td>
<td>11,600 psi</td>
<td></td>
</tr>
</tbody>
</table>

HEAVY DUTY HOSES

These hoses are rated for air operated as well as hand operated guns. These 5/32" ID and 27/64" OD hoses are made from polyimide with polyurethane sheathing that is diagonally reinforced. The spring mount prevents kinking during use. The H82520 comes standard with an in-line swivel hose end.

**DIAGRAM**

Flexible Grease Hose - Heavy Duty
1/8”-27 NPTF

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread  (X)</th>
<th>Thread  (Y)</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H82512</td>
<td>Flexible Hose - Heavy Duty</td>
<td>12&quot;</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>1/8”-27 NPTF</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82518</td>
<td>Flexible Hose - Heavy Duty</td>
<td>18&quot;</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>1/8”-27 NPTF</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82552</td>
<td>Flexible Hose - Heavy Duty</td>
<td>12&quot;</td>
<td>Air / Battery</td>
<td>M10 x 1.0</td>
<td>M10 x 1.0</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82512P</td>
<td>Flexible Hose - Heavy Duty With Spring</td>
<td>12&quot;</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>1/8”-27 NPTF</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82518P</td>
<td>Flexible Hose - Heavy Duty With Spring</td>
<td>18&quot;</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>1/8”-27 NPTF</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82552P</td>
<td>Flexible Hose - Heavy Duty With Spring</td>
<td>12&quot;</td>
<td>Air / Battery</td>
<td>M10 x 1.0</td>
<td>M10 x 1.0</td>
<td>5,800 psi</td>
<td>13,775 psi</td>
</tr>
<tr>
<td>H82520</td>
<td>Flexible Hose - Super Duty for H81650</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/4”-18 NPTF</td>
<td>1/4”-18 NPTF</td>
<td>10,000 psi</td>
<td>23,000 psi</td>
</tr>
</tbody>
</table>
Rigid Pipe Extensions

Rigid pipe extensions are constructed from steel for strength and stability. The rolled threads provide a tight seal with the mating coupler or gun. Rigid pipe extensions come in straight or angled pipe and various lengths to fit any application. Custom lengths are available.

### Diagram

- **Rigid Pipe Extension - Heavy Duty**
  - 1/8"-27 NPTF
  - 6,000 psi

### Item Table

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Length</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85504</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>4°</td>
<td>Straight</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>H85505</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>6°</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>H85510</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>10°</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>H85545</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>6°</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>M10 x 1.0</td>
<td>6,000 psi</td>
</tr>
</tbody>
</table>

Flexi-Pipe™

The H85506 is designed for either a pipe or flexible hose operation. Simply slide the metal sleeve to “lock” flex hose into rigid position.

### Diagram

- **Flexi-Pipe™**
  - 1/8"-27 NPTF
  - 5,000 psi

### Item Table

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Length</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85506</td>
<td>Flexi-Pipe™</td>
<td>13°</td>
<td>—</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>5,000 psi</td>
</tr>
</tbody>
</table>

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Couplers are one of the most crucial components in lubricating your application. Hydraulic coupler jaws are heat treated and fully hardened spring steel to ensure a tight fit through extended use. The H84000 is our most popular coupler for general maintenance due to the narrow profile of the body and milled slots for easy tightening. Internal ball checks prevent back pressure from reaching the gun.

### COUPLERS

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Jaws</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Ball Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84000</td>
<td>Hydraulic Coupler - Narrow</td>
<td>4 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84030</td>
<td>Hydraulic Coupler - Narrow</td>
<td>4 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>6,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84075</td>
<td>Hydraulic Coupler - Narrow</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPT</td>
<td>7,500 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84050</td>
<td>Hydraulic Coupler - Standard</td>
<td>4 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPT</td>
<td>10,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84025Z3</td>
<td>Metric Hydraulic Coupler - Narrow</td>
<td>4 Jaw</td>
<td>Hand</td>
<td>M10 x 1.0</td>
<td>5,000 psi</td>
<td>No</td>
</tr>
</tbody>
</table>

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**Common Parts**
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**Lincoln Industrial**
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COUPLERS

The H84100 has a rotating head designed to lock at angles within its 180° rotation. This coupler is ideal for greasing multiple points with different angles of engagement. The H84001 has the ability to access the greasing point at a 90° angle and is useful for greasing in areas where access is limited or there is a low clearance to the greasing nipple.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Jaws</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Ball Check?</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84100</td>
<td>Hydraulic Coupler - 180° Swivel</td>
<td>3 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84150</td>
<td>Hydraulic Coupler - 360° Swivel</td>
<td>3 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>H84001</td>
<td>Hydraulic Coupler - 90° Push-on</td>
<td>Polyurethane</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>1,000 psi</td>
<td>No</td>
</tr>
</tbody>
</table>

**DESIGN FEATURE**

The H84400, H84460 and H84450 button head couplers possess UNS threads and require a thread adapter shown here.

**SPECIAL USE**

For Hand Equipment

- **H84000**
  - 180° Swivel Hydraulic Coupler
  - 1/8"-27 NPT
  - 3,000 psi

- **H84150**
  - 360° Swivel Hydraulic Coupler
  - 1/8"-27 NPT
  - 7,000 psi

- **H84001**
  - 90° Hydraulic Coupler
  - 1/8"-27 NPT
  - 1,000 psi

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Button head couplers are designed to push or pull over the head of a button head grease fitting. The slot opening for the standard button head couplers is designed for a 5/8" and 15.0 mm button head grease fitting. Heavy Duty button head couplers have a larger opening to accommodate a larger head.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84420</td>
<td>Coupler - Button Head Push-on</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>3,000 psi</td>
</tr>
<tr>
<td>H84415</td>
<td>Coupler - Button Head Push-on</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>3,000 psi</td>
</tr>
<tr>
<td>H84425</td>
<td>Coupler - Button Head Pull-on</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>H84440</td>
<td>Coupler - Button Head Pull-on</td>
<td>Air / Battery</td>
<td>M10 x 1.0</td>
<td>6,000 psi</td>
</tr>
<tr>
<td>H84460</td>
<td>Coupler - Heavy Duty Button Head Pull-on</td>
<td>Air / Battery</td>
<td>7/16&quot;-27 UNS</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>H84450</td>
<td>Coupler - Heavy Duty Button Head Pull-on</td>
<td>Air / Battery</td>
<td>7/16&quot;-27 UNS</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>H84475</td>
<td>Coupler - Heavy Duty Button Head Pull-on</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>7,500 psi</td>
</tr>
</tbody>
</table>

H84400, H84460 & H84450 button head couplers possess UNS threads and require a thread adapter.
COUPLERS

These couplers are designed for pin type grease fittings and provide a quick, secure and leak-proof connection. The two horizontal pins on the pin type grease fitting serve as coupling guides to improve the engagement during service.

**H84300**
Pin Type Coupler - Female
1/8" - 27 NPTF
3,000 psi

**H84325**
Pin Type Coupler - Male with Wing
1/8" - 27 NPTF
5,000 psi

**DESIGN FEATURE**

- **WING PROVIDES A PRESSURE POINT TO EASE INSTALLATION**
- **PIN TYPE COUPLERS ENGAGE THE TWO HORIZONTAL PINS OF THE PIN TYPE GREASE FITTING TO LOCK SECURELY AND PROVIDE SEAL**

---

**Item #** | **Description** | **Equipment Type** | **Thread** | **Working Pressure**
---|---|---|---|---
H84300 | Coupler - Pin Type Female | Hand | 1/8" - 27 NPTF | 3,000 psi
H84325 | Coupler - Pin Type male with Wing | Hand | 1/8" - 27 NPTF | 5,000 psi

**Common Parts**
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REVISED 02-19
# NEEDLE NOZZLE

Needle nozzles allow for dispensing a fine line of grease which is beneficial when a greasing point is hard to reach, for example, a U-joint. The H85160 is a rubber tipped needle nozzle dispenser designed to service grease fittings. Threads are designed to fit onto a grease gun rigid extension or whip hose, found on pages 116-117.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Needle Length</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Pipe Diameter</th>
<th>Tip Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85102</td>
<td>Needle Nozzle -Female</td>
<td>19/32&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.187&quot;</td>
<td>.046&quot;</td>
</tr>
<tr>
<td>H85107</td>
<td>Needle Nozzle Shroud</td>
<td></td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H85160</td>
<td>Rubber Tip Nozzle -Female</td>
<td>1-13/32&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H85161</td>
<td>Replacement Rubber Tip</td>
<td>5/8&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H85106</td>
<td>Needle Nozzle -Female</td>
<td>6&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.156&quot;</td>
<td>.059&quot;</td>
</tr>
<tr>
<td>H85104</td>
<td>Needle Nozzle -Female</td>
<td>1-3/8&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.156&quot;</td>
<td>.046&quot;</td>
</tr>
<tr>
<td>H85100</td>
<td>Needle Nozzle -Female</td>
<td>1-1/2&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.156&quot;</td>
<td>.046&quot;</td>
</tr>
</tbody>
</table>
### Needle Nozzle

Needle nozzles are available in a variety of different lengths to fit many applications. Needle nozzles can be attached to a pipe extension or a whip hose with the use of a coupler.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Needle Length</th>
<th>Equipment Type</th>
<th>Threads</th>
<th>Pipe Diameter</th>
<th>Tip Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85105</td>
<td>Needle Nozzle - Male</td>
<td>13/16&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.188&quot;</td>
<td>.031&quot;</td>
</tr>
<tr>
<td>H85110</td>
<td>Needle Nozzle - Male</td>
<td>2-1/4&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.188&quot;</td>
<td>.031&quot;</td>
</tr>
<tr>
<td>H85115</td>
<td>Needle Nozzle - Male</td>
<td>4-1/2&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>.188&quot;</td>
<td>.031&quot;</td>
</tr>
</tbody>
</table>

### Couplers

Flush type couplers are specifically designed for flush type fittings. The rounded end of the coupler mates with the fitting to provide proper engagement when servicing.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Thread</th>
<th>Overall Length</th>
<th>Equipment Type</th>
<th>Tip Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84200</td>
<td>Coupler - Flush Type Female</td>
<td>1/8&quot;-27 NPTF</td>
<td>1-1/4&quot;</td>
<td>Hand</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>H84205</td>
<td>Coupler - Flush Type Female for H1877</td>
<td>1/8&quot;-27 NPTF</td>
<td>1&quot;</td>
<td>Hand</td>
<td>.08&quot;</td>
</tr>
<tr>
<td>H84225</td>
<td>Coupler - Flush Type Female</td>
<td>M10 x 1.0</td>
<td>18 mm</td>
<td>Hand</td>
<td>5.5 mm</td>
</tr>
</tbody>
</table>
**ALL-IN-ONE KITS**

All-in-one kits are useful for agricultural or maintenance applications where multiple couplers are needed to service grease fittings. These kits provide all your couplers in a vinyl pouch with the convenience of the quick connect couplers for any application. See page 126 for quick connect operation.

---

**DISP-H89990**

**EZEE™ Lubrication Kit**

Quick Connect

Deluxe

---

**ORGANIZED IN A ROLL UP VINYL SLEEVE**

---

<table>
<thead>
<tr>
<th>Item #</th>
<th>Page Number</th>
<th>Diagram</th>
<th>Quick Connect Coupler</th>
<th>Equipment Type</th>
<th>Angle</th>
<th>Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84090</td>
<td>126</td>
<td>A</td>
<td>90°Angle</td>
<td>Hand</td>
<td>90°</td>
<td>Hydraulic</td>
</tr>
<tr>
<td>H84085</td>
<td>125</td>
<td>B</td>
<td>Hydraulic Whip Hose</td>
<td>Hand</td>
<td>—</td>
<td>Hydraulic</td>
</tr>
<tr>
<td>H85200</td>
<td>127</td>
<td>C</td>
<td>Injector Needle</td>
<td>Hand</td>
<td>Straight</td>
<td>Injector Needle</td>
</tr>
<tr>
<td>H84600</td>
<td>125</td>
<td>D</td>
<td>Push Type</td>
<td>Hand</td>
<td>Straight</td>
<td>Push Type</td>
</tr>
<tr>
<td>H84625</td>
<td>126</td>
<td>E</td>
<td>90° Push type</td>
<td>Hand</td>
<td>90°</td>
<td>Push Type</td>
</tr>
<tr>
<td>H85145</td>
<td>127</td>
<td>F</td>
<td>5&quot; Needle nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Needle Nozzle</td>
</tr>
<tr>
<td>H85165</td>
<td>127</td>
<td>G</td>
<td>Rubber Tip Needle Nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Rubber Tip</td>
</tr>
</tbody>
</table>
The H84155 is useful when servicing agricultural or industrial applications with multiple angled greasing points. It allows for quick rotation of the coupler to reach the greasing nipple. The H84600 is for use in tight spaces where a narrow hydraulic coupler will not fit.

### Item # | Description | Jaws | Equipment Type | Angle | Tip
--- | --- | --- | --- | --- | ---
H84155 | Quick Connect Coupler - 360° Swivel | 3 Jaw | Hand | 360° Swivel | Hydraulic
H84085 | Quick Connect Coupler - Hydraulic Whip Hose | 4 Jaw | Hand | — | Hydraulic
H84080 | Quick Connect Coupler - Hydraulic Rigid Extension | 4 Jaw | Hand | 15° | Hydraulic
H84600 | Quick Connect Coupler - Push Type | — | Hand | Straight | Push Type
H85130 | Quick Connect Coupler - 19/32” needle Nozzle | — | Hand | Straight | Needle Nozzle
**QUICK CONNECT**

Quick connect adapters are an effective way to bring versatility to grease guns. When multiple types of greasing tools are required for scheduled maintenance, quick connect allows for fast and easy changing of the tool to ensure proper lubrication of grease fittings. The couplers below are for standard grease fittings, and the H84480 is for servicing button head fittings.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Equipment Type</th>
<th>Angle</th>
<th>Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>H84095</td>
<td>Quick Connect Coupler - 90° Hydraulic</td>
<td>Hand</td>
<td>90°</td>
<td>3 Jaw Hydraulic</td>
</tr>
<tr>
<td>H84625</td>
<td>Quick Connect Coupler - 90° Push Type</td>
<td>Hand</td>
<td>90°</td>
<td>Push Type</td>
</tr>
<tr>
<td>H84090</td>
<td>Quick Connect Coupler - 90° Angle</td>
<td>Hand</td>
<td>90°</td>
<td>90° Hydraulic</td>
</tr>
<tr>
<td>H84480</td>
<td>Quick Connect Coupler - Push-on Button Head</td>
<td>Hand</td>
<td>90° Push-on</td>
<td>Button Head</td>
</tr>
</tbody>
</table>

**DESIGN FEATURE**

- RETRACT THE SLEEVE OF THE QUICK CONNECT COUPLER
- ATTACH THE QUICK CONNECT COUPLER TO THE HYDRAULIC COUPLER OF YOUR GREASE GUN
- RELEASE THE QUICK CONNECT COUPLER SLEEVE TO SECURE CONNECTION
**QUICK CONNECT**

The needle nozzle quick connects are beneficial for lubricating U-joints and other limited access applications with a fine line of grease through the tip of the needle. Quick connects are used for quickly adapting your grease gun to the appropriate application. The H85200 is used to pierce the seal of a noisy sealed bearing to temporarily extend lifespan.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Equipment Type</th>
<th>Angle</th>
<th>Tip</th>
</tr>
</thead>
<tbody>
<tr>
<td>H85145</td>
<td>Quick Connect Coupler - 1-1/2&quot; Needle Nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Needle Nozzle</td>
</tr>
<tr>
<td>H85140</td>
<td>Quick Connect Coupler - 4&quot; Needle Nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Needle Nozzle</td>
</tr>
<tr>
<td>H85165</td>
<td>Quick Connect Coupler - 1-13/32&quot; Needle Nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Rubber Tip</td>
</tr>
<tr>
<td>H85120</td>
<td>Quick Connect Coupler - 7/8&quot; Needle Nozzle</td>
<td>Hand</td>
<td>Straight</td>
<td>Needle Nozzle</td>
</tr>
<tr>
<td>H85200</td>
<td>Quick Connect Coupler - 1-1/2&quot; Injector needle</td>
<td>Hand</td>
<td>Straight</td>
<td>Injector Needle</td>
</tr>
</tbody>
</table>

**Common Parts**

Parts with this designation are in wide distribution.

**Alemite**

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**Lincoln Industrial**

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**John Deere**

John Deere®, a registered trademark of Deere and Company, Moline, Illinois.
# OIL COVERS & CUPS

Oil cups are a simple yet reliable means of automatically lubricating a component. The metal reservoirs hold oil, allowing it to slowly pass through and lubricate bearings, motors and other moving parts. Oil hole covers simply provide a barrier to contamination for oil fill holes. All covers and cups are equipped with a self-closing hinged cover.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Diagram #</th>
<th>Type</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Capacity (oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H48001</td>
<td>Dia. 1</td>
<td>Oil Hole Cover</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>13/16&quot;</td>
<td>1/4&quot;</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H48002</td>
<td>Oil Hole Cover</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>7/8&quot;</td>
<td>9/32&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48003</td>
<td>Oil Hole Cover</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>1-5/32&quot;</td>
<td>13/32&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48007</td>
<td>Oil Hole Cover</td>
<td>1/4&quot;-18 NPT</td>
<td>Straight</td>
<td>1-5/32&quot;</td>
<td>13/32&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48009</td>
<td>Oil Hole Cover</td>
<td>3/8&quot;-18 NPT</td>
<td>Straight</td>
<td>1-9/32&quot;</td>
<td>3/8&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48010</td>
<td>Oil Hole Cover</td>
<td>1/2&quot;-14 NPT</td>
<td>Straight</td>
<td>1-7/16&quot;</td>
<td>9/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48011</td>
<td>Oil Hole Cover</td>
<td>1/4-32 UNEF</td>
<td>Straight</td>
<td>9/16&quot;</td>
<td>3/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48012</td>
<td>Oil Hole Cover</td>
<td>1/4-32 UNEF</td>
<td>Straight</td>
<td>9/16&quot;</td>
<td>5/32&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48013</td>
<td>Oil Hole Cover</td>
<td>1/4-32 UNEF</td>
<td>Straight</td>
<td>9/16&quot;</td>
<td>3/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48014</td>
<td>Oil Hole Cover</td>
<td>1/4-32 UNEF</td>
<td>Straight</td>
<td>3/4&quot;</td>
<td>1/4&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48015</td>
<td>Oil Hole Cover</td>
<td>3/8&quot;-24 UNF</td>
<td>Straight</td>
<td>9/16&quot;</td>
<td>3/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48016</td>
<td>Oil Hole Cover</td>
<td>1/8&quot;-27 NPT</td>
<td>Straight</td>
<td>1-5/32&quot;</td>
<td>13/32&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48017</td>
<td>Oil Hole Cover</td>
<td>1/4-18 NPT</td>
<td>Straight</td>
<td>1-9/32&quot;</td>
<td>3/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48018</td>
<td>Oil Hole Cover</td>
<td>3/8&quot;-18 NPT</td>
<td>Straight</td>
<td>2-9/16&quot;</td>
<td>3/8&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>H48019</td>
<td>Oil Hole Cover</td>
<td>1/2-14 NPT</td>
<td>Straight</td>
<td>3-9/16&quot;</td>
<td>9/16&quot;</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

## Oil Hole Covers are also available in drive type with bead & drive type with shoulder

**CALL OUR SALES TEAM TODAY FOR MORE INFORMATION!**

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**OIL RESERVOIRS**

The clear plastic bowls and the increased capacity of oil reservoirs make them an ideal choice for use as a central dispenser for lubrication systems. They are available in capacities ranging from 1 oz. to a full 128 oz., a good choice for applications which see infrequent service. Adjustable flow reservoirs allow users to adjust oil flow from a drip to a stream.

### Diagram 5

**Oil Reservoir Standard Flow**

**Diagram 6**

**Oil Reservoir Adjustable Flow**

---

**Item #** | **Diagram #** | **Type** | **Thread** | **Capacity (oz.)** | **Bowl Diameter** | **Overall Length (A)**
---|---|---|---|---|---|---

**Diagram # 5**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Type</th>
<th>Thread</th>
<th>Capacity (oz.)</th>
<th>Bowl Diameter</th>
<th>Overall Length (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H48200</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1 oz.</td>
<td>1-1/2”</td>
<td>3”</td>
</tr>
<tr>
<td>H48201</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1-3/8 oz.</td>
<td>1-3/4”</td>
<td>2-15/16”</td>
</tr>
<tr>
<td>H48202</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1-3/4 oz.</td>
<td>2”</td>
<td>3-1/8”</td>
</tr>
<tr>
<td>H48203</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>2-1/2 oz.</td>
<td>2”</td>
<td>3-1/2”</td>
</tr>
<tr>
<td>H48204</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>5 oz.</td>
<td>2-1/2”</td>
<td>4-1/8”</td>
</tr>
<tr>
<td>H48205</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>8 oz.</td>
<td>2-1/2”</td>
<td>5-3/16”</td>
</tr>
<tr>
<td>H48206</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>9 oz.</td>
<td>3”</td>
<td>5-3/8”</td>
</tr>
<tr>
<td>H48207</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1 oz.</td>
<td>1-1/2”</td>
<td>3-3/16”</td>
</tr>
<tr>
<td>H48208</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1-3/8 oz.</td>
<td>1-3/4”</td>
<td>3-3/16”</td>
</tr>
<tr>
<td>H48209</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>1-3/4 oz.</td>
<td>2”</td>
<td>3-3/8”</td>
</tr>
<tr>
<td>H48210</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>2-1/2 oz.</td>
<td>2”</td>
<td>3-3/4”</td>
</tr>
<tr>
<td>H48211</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>5 oz.</td>
<td>2-1/2”</td>
<td>4-5/16”</td>
</tr>
<tr>
<td>H48212</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>8 oz.</td>
<td>2-1/2”</td>
<td>5-3/8”</td>
</tr>
<tr>
<td>H48213</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>9 oz.</td>
<td>3”</td>
<td>5-1/2”</td>
</tr>
<tr>
<td>H48214</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>12 oz.</td>
<td>3”</td>
<td>6-7/16”</td>
</tr>
<tr>
<td>H48215</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>16 oz.</td>
<td>3-1/2”</td>
<td>6-9/16”</td>
</tr>
<tr>
<td>H48216</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>32 oz.</td>
<td>4-1/4”</td>
<td>7-15/16”</td>
</tr>
<tr>
<td>H48217</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>64 oz.</td>
<td>5-1/2”</td>
<td>9-15/16”</td>
</tr>
<tr>
<td>H48218</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>128 oz.</td>
<td>5-1/2”</td>
<td>14-15/16”</td>
</tr>
<tr>
<td>H48219</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>12 oz.</td>
<td>3”</td>
<td>6-5/8”</td>
</tr>
<tr>
<td>H48220</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>16 oz.</td>
<td>3-1/2”</td>
<td>6-5/8”</td>
</tr>
<tr>
<td>H48221</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>32 oz.</td>
<td>4-1/4”</td>
<td>8-1/16”</td>
</tr>
<tr>
<td>H48222</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>64 oz.</td>
<td>5-1/2”</td>
<td>10-1/8”</td>
</tr>
<tr>
<td>H48223</td>
<td>Standard</td>
<td>1/8”-27 NPTF</td>
<td>128 oz.</td>
<td>5-1/2”</td>
<td>15-1/4”</td>
</tr>
</tbody>
</table>

**Diagram # 6**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Type</th>
<th>Thread</th>
<th>Capacity (oz.)</th>
<th>Bowl Diameter</th>
<th>Overall Length (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H48300</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>5/8 oz.</td>
<td>1-1/2”</td>
<td>4-9/16”</td>
</tr>
<tr>
<td>H48301</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>1 oz.</td>
<td>1-1/2”</td>
<td>5-3/16”</td>
</tr>
<tr>
<td>H48302</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>1-1/2 oz.</td>
<td>1-3/4”</td>
<td>5-3/8”</td>
</tr>
<tr>
<td>H48303</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>2-1/2 oz.</td>
<td>2”</td>
<td>5-3/4”</td>
</tr>
<tr>
<td>H48304</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>5 oz.</td>
<td>2-1/2”</td>
<td>6-3/8”</td>
</tr>
<tr>
<td>H48305</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>9 oz.</td>
<td>3”</td>
<td>7-5/8”</td>
</tr>
<tr>
<td>H48307</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>12 oz.</td>
<td>3”</td>
<td>8-15/16”</td>
</tr>
<tr>
<td>H48309</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>16 oz.</td>
<td>3-1/2”</td>
<td>8-15/16”</td>
</tr>
<tr>
<td>H48306</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>32 oz.</td>
<td>4-1/4”</td>
<td>9-15/16”</td>
</tr>
<tr>
<td>H48308</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>64 oz.</td>
<td>5-1/2”</td>
<td>10-1/8”</td>
</tr>
<tr>
<td>H48310</td>
<td>Adjustable</td>
<td>1/8”-27 NPTF</td>
<td>128 oz.</td>
<td>5-1/2”</td>
<td>15-1/4”</td>
</tr>
</tbody>
</table>

---

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**Special Parts**

Oil Reservoirs are also available in high temperature or internal vented. Call our Sales Team Today for more information!
OIL PUMPS

Rotary pumps are a common pump used for light to medium viscosity oils including diesel, kerosine, motor oil and common oils up to SAE 90. The dual direction operation of the handle on the H89100 allows the pump to either fill or empty containers. The H89200 lever style barrel pump delivers lubrication in a one-pump lever action. This pump is not recommended for corrosive fluids including water based fluids, solvents, acid, anti-freeze, and gas. The H89250 accommodates thick oils with viscosity up to SAE 130.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Air Inlet Threads</th>
<th>Oil Outlet Threads</th>
<th>Barrel Size</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H89200</td>
<td>Lever Barrel Oil Pump</td>
<td>—</td>
<td>—</td>
<td>Fits 15 - 55 gal.</td>
<td>—</td>
<td>5.1 lbs.</td>
</tr>
<tr>
<td>H89250</td>
<td>5:1 Oil Pump Assembly</td>
<td>1/4&quot;-18 NPTF</td>
<td>1/2&quot;-14 NPTF</td>
<td>Fits 30 - 55 gal.</td>
<td>115 psi</td>
<td>6.3 lbs.</td>
</tr>
</tbody>
</table>
OIL CANS

Oil cans are a common sight in garages and homes and are popular for use in general maintenance applications such as for bicycle chains and door hinges. They also serve to lubricate flush type fittings such as the H1815, on page 39. Oil cans are compatible with light oils and lower viscosity fluids. They will not work with lithium grease.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Spout Length</th>
<th>Bulk Capacity</th>
<th>Overall Height</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>H89500</td>
<td>Deluxe Lever Oil Can</td>
<td>8&quot;</td>
<td>32 oz.</td>
<td>10&quot;</td>
<td>1.0 lbs.</td>
</tr>
<tr>
<td>H89550</td>
<td>Lever Oil Can</td>
<td>9&quot;</td>
<td>16 oz.</td>
<td>7-3/8&quot;</td>
<td>.4 lbs.</td>
</tr>
<tr>
<td>H89525</td>
<td>Snap Action Oil Can</td>
<td>5&quot;</td>
<td>12 oz.</td>
<td>4-3/4&quot;</td>
<td>2.2 lbs.</td>
</tr>
</tbody>
</table>

**SERVICE SUGGESTION**

*In light duty applications, a standard oil can may be used.*
UNBLOCKER

This precision tool is specially engineered to quickly and easily unplug stubborn grease fittings. To operate, a light weight oil is injected into the tool’s reservoir. The plunger is then inserted, and a tap from a hammer injects the oil into the fitting, loosening the internal components. The mini unblocker is half the weight of the standard model — small enough to keep in your pocket.

H83300
Grease Fitting Unblocker - Heavy Duty

H83325
Grease Fitting Unblocker - Mini

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Overall Length</th>
<th>Hose Length</th>
<th>Body Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H83300</td>
<td>Grease Fitting Unblocker - Heavy Duty</td>
<td>8.5&quot;</td>
<td>5.5&quot;</td>
<td>.75&quot;</td>
</tr>
<tr>
<td>H83325</td>
<td>Grease Fitting Unblocker - Mini</td>
<td>6&quot;</td>
<td>—</td>
<td>.5&quot;</td>
</tr>
</tbody>
</table>

HOW IT WORKS

Pull up on plunger to remove and fill chamber

Fill unblocker with light oil

Couple unblocker to fitting nipple and tap with hammer to unfreeze

Accumulated pressure will open a frozen fitting

Flexible hose services hard to reach fittings

Durable hydraulic coupler attached to fittings

Rugged steel construction

Includes hand protector

Zinc plated clip for portability

Plastic cap prevents leakage

Knurled grip for stability

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REVISED 03-19
Fitting Multi-Tools

Grease fitting multi-tools combine four tools in one compact design: an easy-out to remove broken or damaged fittings, a hardened tap to repair damaged threads, a socket wrench for installation of the most common size of straight fittings, and a slotted socket for installing common sizes of angled fittings. These compact tools are a great addition to any toolbox.

**H83000**
Easy Out & Tap Tool  
Tapping Threads: 1/8" - 27 NPT

**H83050**
Easy Out & Tap Tool  
Tapping Threads: 1/4" - 28 SAE-LT

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Overall Length</th>
<th>Body Diameter</th>
<th>Straight Socket</th>
<th>Angled Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>H83000</td>
<td>Easy Out &amp; Tap Tool 1/8&quot; - 27 NPT</td>
<td>2&quot;</td>
<td>.625&quot;</td>
<td>3/8&quot; Hex</td>
<td>7/16&quot; Hex</td>
</tr>
<tr>
<td>H83050</td>
<td>Easy Out &amp; Tap Tool 1/4&quot; - 28 SAE-LT</td>
<td>1.625&quot;</td>
<td>.562&quot;</td>
<td>5/16&quot; Hex</td>
<td>3/8&quot; Hex</td>
</tr>
</tbody>
</table>

**How it Works**

1. **Grease Fitting Damage Occurs**
2. **Remove Damaged Grease Fitting**
3. **Clean and Re-Tap Threads**
4. **Install New Grease Fitting**
The Vanguard™ line sets the standard for corrosion-resistant fittings. Offered in stainless steel, Monel®, and brass, Vanguard™ fittings meet all of the quality assurance requirements that Heritage™ fittings meet, and then some. Offered in Inch and Metric versions, the Vanguard™ line is the most comprehensive corrosion resistant line available anywhere.

**Stainless Steel**

Stainless steel grease fittings use a body made from AISI 303 stainless steel, a ball check made from AISI 304 grade stainless steel and spring made from 302 stainless spring wire, such that all components are corrosion resistant. Stainless steel offers greater corrosion resistance than zinc plated steel parts, but not as great as Monel® fittings. These parts are rated to operate in temperatures up to 900º F.

Stainless steel fittings are commonly found in food service, meat packing and pharmaceutical applications where corrosion resistance is an important design consideration.

**Monel®**

Monel® 400, a common grade, is a binary alloy composed primarily of nickel with varying amounts of copper and other material. Monel® is difficult to turn, and tends to work-harden easily. As a result, it is turned at very slow speeds, which explains in part why the parts are so expensive to produce. Vanguard™ fittings have Monel® 400 bodies, and Monel® ball checks and springs. They are rated to operate at temperatures up to approximately 900º F.

Monel® has superior corrosion resistance properties to stainless steel and is used in the harshest of environments. Marine and saltwater applications, piping and pump systems, and seawater valves are common uses.

**Brass**

Brass is a soft metal and will wear easily from repeated service. It is known as a “substitution alloy” consisting of copper and zinc. Our brass fittings are made from CDA 360 alloy bodies with 420 stainless steel ball checks and 301 stainless wire springs.

Brass is used in low spark environments, such as in pumps, valves, and bearings with the presence of explosive gases. Brass is also used in decorative applications.
PLATING STANDARDS

With the continued environmental and safety concerns regarding the restriction of hazardous substances and end of life vehicle directives, greater scrutiny is being placed on plating and plating standards for industrial parts. Because grease fittings have specific anti-corrosion requirements in their standards, it is important to understand the implications and complications of such standards.

**TRAVERSE CHROMIUM**

Trivalent chromium is not as hardy and not as reliable for corrosion prevention as hexavalent chromium. Some scientists have suggested that the RoHS and WEEE directives are detrimental to green environmental initiatives because they result in faster end-of-life decisions for the parts involved, thereby accelerating adverse environmental impacts from scrapped goods.

**ROHS AND WEEE**

The Restriction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE) Directives in Europe set standards that govern the chemical content of a variety of components. The directive stipulates that such goods not contain a host of chemicals, including hexavalent chromium, which is used in zinc plating to prevent corrosion.

Usually original equipment manufacturers will stipulate such standards. In such cases, special efforts are made to apply trivalent chromium, an accepted alternate, to the parts. We can provide trivalent chromium as a special order.

**YELLOW VERSUS CLEAR PLATING**

For most of our Heritage™ and Euro™ lines, a zinc hexavalent yellow chromate finish is specified because of superior salt spray resistance to zinc clear.

Other Finishes Available

In addition to RoHS compliant trivalent chromium, a variety of other finishes are available by special order.

Electroless Nickel- offers a very high level of corrosion protection and is cosmetically appealing, with a bright and glossy finish.

Special Colors- such as red, green and blue dichromate finishes are available for color coding parts. A few years ago, we engineered a black dichromate part for use on Harley Davidson® motorcycles.

**PLATING STANDARDS**

The RoHS and WEEE directives apply to household appliances, information technology equipment, telecommunications equipment, consumer equipment, lighting, electronic and electrical tools, toys, leisure equipment, medical devices and automatic dispensers.

The RoHS and WEEE directives stipulate that such goods not contain a host of chemicals, including hexavalent chromium, which is used in zinc plating to prevent corrosion.

Usually original equipment manufacturers will stipulate such standards. In such cases, special efforts are made to apply trivalent chromium, an accepted alternate, to the parts. We can provide trivalent chromium as a special order.

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**RED DICHROMATE**

**BLUE DICHROMATE**

**ELECTROLESS NICKEL**

**GREEN DICHROMATE**

**BLACK DICHROMATE**

Trivalent chromium is not as hardy and not as reliable for corrosion prevention as hexavalent chromium. Some scientists have suggested that the RoHS and WEEE directives are detrimental to green environmental initiatives because they result in faster end-of-life decisions for the parts involved, thereby accelerating adverse environmental impacts from scrapped goods.

Remember that grease fittings are assembled after plating. The process itself can cause bruising. In testing, such bruising can easily compromise the corrosion resistance of the part.
1/4"-28 SAE-LT

G.L. Huyett's stainless steel fittings are manufactured out of type 303 stainless steel which have stainless steel balls and springs for thorough corrosion resistance. Angle fittings are assembled with thread sealant for a reliable seal.

**Technical Drawings are Approximate Actual Size**

**Common Parts**
Parts with this designation are in wide distribution.

**Alternate Materials and Designs Available Upon Request.**

**Call Our Sales Team Today!**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1641S</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.54&quot;</td>
<td>.18&quot;</td>
<td>.10&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H1652S</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.68&quot;</td>
<td>.34&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H1680S</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.94&quot;</td>
<td>.62&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>H1637S</td>
<td>1/4&quot;-28</td>
<td>45°</td>
<td>.82&quot;</td>
<td>.20&quot;</td>
<td>.10&quot;</td>
<td>.58&quot;</td>
<td>.25&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>H1911S</td>
<td>1/4&quot;-28</td>
<td>90°</td>
<td>.76&quot;</td>
<td>.20&quot;</td>
<td>.10&quot;</td>
<td>.66&quot;</td>
<td>.25&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

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**PARALLEL**

Stainless steel fittings offer an additional level of corrosion resistance and are suited for food processing equipment, marine applications and sewage disposal systems. Parallel threads are often called special threads because they are not covered in SAE J534 (Please Note: The nipple design is covered by SAE J534). Parallel threaded fittings are not self-sealing like tapered threads, but do thread into standard screw-thread housings.

### H1792S
- **Straight - Stainless**
- 1/4"-28 UNF
- Short Shank

### H1711S
- **Straight - Stainless**
- 5/16"-24 UNF
- Standard Shank

### H1710S
- **Straight - Stainless**
- 3/8"-24 UNF
- Standard Shank

### H1728S
- **Straight Drive Type - Stainless**
- ≈ 3/16" Drill Size
- Long Shank

### H1743S
- **Straight Drive Type - Stainless**
- ≈ 1/4" Drill Size
- Long Shank

---

**DRIVE TYPE**

Drive type fittings are advantageous because they do not need a threaded hole, therefore decreasing the cost of installation. See pages 30-31 for a detailed explanation on drive type fittings. Drill sizes provided are approximations and are for reference only. The exact drill size for drive fittings will vary with your application and material.

### H1728S
- **Straight Drive Type - Stainless**
- ≈ 3/16" Drill Size
- Long Shank

### H1743S
- **Straight Drive Type - Stainless**
- ≈ 1/4" Drill Size
- Long Shank

---

**Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)**

| **H1792S** | 1/4"-28 Straight | .53" | .19" | .08" | — | .25" | — | 9/32" |
| **H1711S** | 5/16"-24 Straight | .66" | .22" | .12" | — | .31" | — | 3/8" |
| **H1710S** | 3/8"-24 Straight | .66" | .27" | .17" | — | .37" | — | 7/16" |

---

**Common Parts**
- Parts with this designation are in wide distribution.

**Alemite®**
- Registered trademark of Alemite, Inc., Johnson City, TN, USA

**Lincoln Industrial®**
- Registered trademark of Lincoln Industrial (USA) Corp.

**John Deere®**
- Registered trademark of Deere and Company, Moline, Illinois.

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The surface finish of stainless steel fittings closely resembles that of Monel®. To avoid confusion, Monel® fittings have a single notch on the hex for identification.

### Common Parts
Parts with this designation are in wide distribution.

### Alemite®
Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.

### Lincoln Industrial®
Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

### John Deere®
John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

### Monel®
Monel® is a registered trademark of the Inco Alloys, International, Inc.

### Technical Drawings are Approximate Actual Size

### ENVIROMENTAL USES

Stainless steel fittings are well suited for use in marine applications as well as extreme temperature environments ranging from sub-zero to nearly 900°F (480°C).

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1610S</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>.66”</td>
<td>.28”</td>
<td>.18”</td>
<td>—</td>
<td>.39”</td>
<td>—</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1644S</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>.56”</td>
<td>.23”</td>
<td>.16”</td>
<td>—</td>
<td>.39”</td>
<td>—</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1961S</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>.72”</td>
<td>.28”</td>
<td>.18”</td>
<td>—</td>
<td>.39”</td>
<td>—</td>
<td>7/16”</td>
</tr>
<tr>
<td>H1607S</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>1.26”</td>
<td>.76”</td>
<td>.22”</td>
<td>—</td>
<td>.39”</td>
<td>—</td>
<td>7/16”</td>
</tr>
</tbody>
</table>

All manufacturer names and numbers are for cross reference identification purposes only. In no way are we implying that our parts were made by the manufacturers listed. Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

Monel® is a registered trademark of the Inco Alloys, International, Inc.

REVISED 03-19
1/8"-27 PTF

All PTF type threads are variants of the Dryseal American Standard Taper Pipe Threads (NPTF), which are designed to provide a leak-proof seal without the use of a thread sealant. Visit our Thread Guide, pages 6-9, for more details.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1611S</td>
<td>1/8&quot;-27</td>
<td>30°</td>
<td>.90&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>.62&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1689S</td>
<td>1/8&quot;-27</td>
<td>45°</td>
<td>.86&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>.64&quot;</td>
<td>.39&quot;</td>
<td>.41&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1612S</td>
<td>1/8&quot;-27</td>
<td>65°</td>
<td>.86&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>.72&quot;</td>
<td>.42&quot;</td>
<td>.50&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>H1613S</td>
<td>1/8&quot;-27</td>
<td>90°</td>
<td>.84&quot;</td>
<td>.30&quot;</td>
<td>.22&quot;</td>
<td>.72&quot;</td>
<td>.42&quot;</td>
<td>.50&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

1/4"-18 PTF

1/4"-18 PTF type fittings are for heavy-duty applications where smaller thread types may be less tolerant of heavy lubricants and extreme cold. Angle type fittings are available by special order.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1627S</td>
<td>1/4&quot;-18</td>
<td>Straight</td>
<td>.87&quot;</td>
<td>.42&quot;</td>
<td>.24&quot;</td>
<td>.52&quot;</td>
<td>—</td>
<td>—</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

Monel® is a registered trademark of the Inco Alloys, International, Inc. Inconel® is a registered trademark of Special Metals Corporation.
In extremely rugged environments, stainless steel button head fittings provide an additional level of corrosion protection and strength. These fittings are a common sight on oil drilling equipment. The H1820S heavy duty button head is ideal for large volumes of lubricant.

**H1184S**  
Button Head - Stainless  
1/8"-27 PTF Spl. Short  
Ball Check

**H1186S**  
Button Head - Stainless  
1/4"-18 NPTF  
Ball Check

**H1188S**  
Button Head - Stainless  
3/8"-18 NPTF  
Ball Check

**H1820S**  
Button Head - Stainless  
1/2"-14 NPTF  
Ball Check

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1184S</td>
<td>1/8&quot;-27</td>
<td>.75&quot;</td>
<td>.34&quot;</td>
<td>.22&quot;</td>
<td>.39&quot;</td>
<td>5/8&quot;</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H1186S</td>
<td>1/4&quot;-18</td>
<td>.83&quot;</td>
<td>.42&quot;</td>
<td>.27&quot;</td>
<td>.52&quot;</td>
<td>5/8&quot;</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H1188S</td>
<td>3/8&quot;-18</td>
<td>.95&quot;</td>
<td>.48&quot;</td>
<td>.41&quot;</td>
<td>.64&quot;</td>
<td>3/4&quot;</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H1820S</td>
<td>1/2&quot;-14</td>
<td>1.06&quot;</td>
<td>.50&quot;</td>
<td>.44&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

**Consider This...**

**Conventional Style**  
Debris can damage nipples in extremely harsh environments.

**Button Head Style**  
Use a button head fitting in extreme environments where there may be a risk of damage, see page 38 for details.

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Safety vents are equipped with a special groove across the threads which provides a cost effective way to vent excess lubricant pressure and prevent bearing seal damage.

### Item # H1930S

**Straight Safety Vent - Stainless**

1/8"-27 PTF Spl. Extra Short

Standard Shank

### Technical Drawings and Approximate Actual Size

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1930S</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.66&quot;</td>
<td>.28&quot;</td>
<td>.18&quot;</td>
<td>.39&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

**SPECIAL PARTS**

**DO YOU NEED A CUSTOM GREASE FITTING FOR YOUR OPERATION?**

**ALTERNATE MATERIALS AND DESIGNS AVAILABLE UPON REQUEST.**

**WE CAN MAKE IT, CALL OUR SALES TEAM TODAY!**

---

**Design Feature**

The groove along the threads of safety vents is a cost effective way to protect bearing seals from over pressurization.

---

*Common Parts: Parts with this designation are in wide distribution.*

*Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.*

*Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.*

*John Deere® is a registered trademark of Deere and Company, Moline, Illinois.*
Metric threads are the most popular thread type in the world. 6.0 mm threads are well suited for standard-duty use on cars, light trucks and some industrial machinery. 5.0 mm threads are better suited for light-duty uses. The coarse threads on the M8 x 1.25 are better suited for use with materials such as aluminum, because the threads are less likely to strip.

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H21005 | M5 x 0.8 | Straight | 15.0 mm | 5.5 mm | 3.7 mm | — | 5.0 mm | — | 7.0 mm
H21155 | M6 x 0.75 | Straight | 15.0 mm | 5.5 mm | 3.7 mm | — | 6.0 mm | — | 7.0 mm
H2106S | M6 x 1.0 | Straight | 16.0 mm | 5.5 mm | 3.7 mm | — | 6.0 mm | — | 7.0 mm
H2107S | M6 x 1.0 | 45° | 21.0 mm | 5.5 mm | 3.7 mm | 14.0 mm | 6.0 mm | 10.0 mm | 9.0 mm
H2108S | M6 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 18.0 mm | 6.0 mm | 14.0 mm | 9.0 mm
H2112S | M8 x 1.25 | Straight | 17.0 mm | 5.5 mm | 3.7 mm | — | 8.0 mm | — | 9.0 mm

**Common Parts**: Parts with this designation are in wide distribution.

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**Lincoln Industrial**: Lincoln Industrial is a registered trademark of Lincoln Industrial, Valparaiso, Indiana.

**John Deere**: John Deere is a registered trademark of Deere and Company, Moline, Illinois.

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M8 & M10 & M12

The fine threads of M8 x 1.0 size fittings provide stronger engagement into the mating material. The larger M10 x 1.0 threads are comparable in size to the 1/8"-27 PTF. They are used in many of the same applications such as on agricultural and industrial machinery. More rugged applications, like mining equipment, may call for the larger M12 x 1.5 thread type.

### Technical Drawings are Approximate Actual Size

#### Common Parts
- Parts with this designation are in wide distribution.

#### Special Parts
- Don’t see what you need? Our in-house machine shop can make it for you. Call our sales team for more information!

#### Special Parts
- Parts with this designation are stainless.

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
---|---|---|---|---|---|---|---|---|---
H2103S | M8 x 1.0 | Straight | 16.0 mm | 5.5 mm | 3.7 mm | — | 8.0 mm | — | 9.0 mm
H2104S | M8 x 1.0 | 45° | 19.5 mm | 5.5 mm | 3.7 mm | 14.0 mm | 8.0 mm | 10.0 mm | 9.0 mm
H2105S | M8 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 18.0 mm | 8.0 mm | 14.0 mm | 9.0 mm
H2109S | M10 x 1.0 | Straight | 16.0 mm | 5.5 mm | 3.7 mm | — | 10.0 mm | — | 11.0 mm
H2110S | M10 x 1.0 | 45° | 21.0 mm | 5.5 mm | 3.7 mm | 16.0 mm | 10.0 mm | 15.0 mm | 11.0 mm
H2111S | M10 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 20.0 mm | 10.0 mm | 15.0 mm | 11.0 mm
H2124S | M12 x 1.5 | Straight | 17.5 mm | 6.5 mm | 3.7 mm | — | 12.0 mm | — | 14.0 mm

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Technical Drawings are Approximate Actual Size

Flush type fittings have a recessed greasing point which enables them to be installed where traditional grease fittings are impractical, such as on shafts, pulleys and near moving parts where clearance is critical.

**Common Parts**
Parts with this designation are in wide distribution.

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**Lincoln Industrial®**
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**John Deere®**
John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

### Metric - Flush Type

#### DIN 3405

Flush type fittings are ideal for applications with hard to lubricate areas and/or in low clearance areas.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2406S</td>
<td>M6 x 1.0</td>
<td>8.5 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>6.0 mm</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>H2403S</td>
<td>M8 x 1.0</td>
<td>9.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>8.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2409S</td>
<td>M10 x 1.0</td>
<td>9.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>10.0 mm</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>
BSPP threads are sometimes referred to as BSPF threads. This parallel thread type is recommended for use with thread sealant. Other thread types, materials and sizes can be custom manufactured to your specifications.

### Technical Drawings are Approximate Actual Size

#### Common Parts
Parts with this designation are in wide distribution.

#### BRITISH - BUTTON HEAD

BSPP threads are sometimes referred to as BSPF threads. This parallel thread type is recommended for use with thread sealant. Other thread types, materials and sizes can be custom manufactured to your specifications.

#### H2800S
Button Head - Stainless
1/8"-28 BSPP
Ball Check

#### H2803S
Button Head - Stainless
1/4"-19 BSPP
Ball Check

#### H2806S
Button Head - Stainless
3/8"-19 BSPP
Ball Check

#### Item # | Thread | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Thread Diameter (F) | Hex (H) | Valve Type
--- | --- | --- | --- | --- | --- | --- | ---
H2800S | 1/8"-28 | .67" | .24" | .15" | .38" | 17.0 mm | Ball Check
H2803S | 1/4"-19 | .67" | .24" | .15" | .51" | 17.0 mm | Ball Check
H2806S | 3/8"-19 | .71" | .28" | .16" | .65" | 17.0 mm | Ball Check

#### COUPLER COMPATIBILITY

**PULL-ON COUPLER**

**PUSH-ON COUPLER**

Button head fittings are generally accessed horizontally, whether through the use of a pull type coupler, or a push type coupler, see page 120 for details.

For more information, please see pg. 38.

---

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REVISED 03-19
British Standard Pipe Tapered (BSPT) threads are a Whitworth tapered thread. These fittings do not have the same leak-free qualities as PTF-type threads. These British tapered threads are covered by DIN 2999. Please note: German fittings are available, and possess the same dimensions as the British fittings listed below.

### Technical Drawings are Approximate Actual Size

#### Common Parts

- **Parts with this designation** are in wide distribution.
- **Alemite®** is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- **Lincoln Industrial®** is a registered trademark of Lincoln Industrial (USA) Corp.
- **John Deere®** is a registered trademark of Deere and Company, Moline, Illinois.

### BRITISH - THREAD

#### DIN 71412

#### STAINLESS

British Standard Pipe Tapered (BSPT) threads are a Whitworth tapered thread. These fittings do not have the same leak-free qualities as PTF-type threads. These British tapered threads are covered by DIN 2999. Please note: German fittings are available, and possess the same dimensions as the British fittings listed below.

#### Item # Thread Angle Overall Length Shank Length Min. Thread Length Overall Width Thread Diameter Swing Clearance Hex

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length</th>
<th>Shank Length</th>
<th>Min. Thread Length</th>
<th>Overall Width</th>
<th>Thread Diameter</th>
<th>Swing Clearance</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>H26005</td>
<td>1/8&quot;-28 BSPT</td>
<td>Straight</td>
<td>.79&quot;</td>
<td>.32&quot;</td>
<td>.23&quot;</td>
<td>—</td>
<td>.38&quot;</td>
<td>—</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>H26015</td>
<td>1/8&quot;-28 BSPT</td>
<td>45°</td>
<td>.83&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.64&quot;</td>
<td>.38&quot;</td>
<td>.43&quot;</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>H26025</td>
<td>1/8&quot;-28 BSPT</td>
<td>90°</td>
<td>.71&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.83&quot;</td>
<td>.38&quot;</td>
<td>.61&quot;</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>H26035</td>
<td>1/4&quot;-19 BSPT</td>
<td>Straight</td>
<td>.69&quot;</td>
<td>.26&quot;</td>
<td>.15&quot;</td>
<td>—</td>
<td>.51&quot;</td>
<td>—</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H26045</td>
<td>1/4&quot;-19 BSPT</td>
<td>45°</td>
<td>.89&quot;</td>
<td>.26&quot;</td>
<td>.15&quot;</td>
<td>.75&quot;</td>
<td>.51&quot;</td>
<td>.47&quot;</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H26055</td>
<td>1/4&quot;-19 BSPT</td>
<td>90°</td>
<td>.87&quot;</td>
<td>.26&quot;</td>
<td>.15&quot;</td>
<td>.91&quot;</td>
<td>.51&quot;</td>
<td>.63&quot;</td>
<td>14.0 mm</td>
</tr>
</tbody>
</table>
Fine threads have some advantages over coarse threads because they provide greater thread engagement in thin materials and are more easily tapped into hard materials. BSF threads are a parallel thread form and are covered by BS 84.

### Technical Drawings are Approximate Actual Size

### Common Parts

- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

## Fine Thread Assessment

### Pros

- Greater cross-section provides stronger threads
- Easier to tap into hard materials
- Added thread engagement in thinner materials

### Cons

- Assembly is slower and more likely to cross-thread
- More likely to seize in corroded environments
- More likely to strip in low strength materials

### Item # | Thread | Angle | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (E) | Swing Clearance (F) | Hex (G) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H2700S</td>
<td>1/4&quot;-26 Straight</td>
<td>.59&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>7.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2701S</td>
<td>1/4&quot;-26 45°</td>
<td>.93&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.59&quot;</td>
<td>.25&quot;</td>
<td>.39&quot;</td>
<td>9.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2702S</td>
<td>1/4&quot;-26 90°</td>
<td>.71&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.67&quot;</td>
<td>.25&quot;</td>
<td>.51&quot;</td>
<td>9.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

### Britsh - Fine Thread

DIN 71412

STAINLESS
Our most corrosion resistant grease fittings, Monel® fittings, are designed to withstand the harshest environments and are often found in industrial, marine and chemical processing applications. The surface finish is similar to stainless steel, so to differentiate, a single notch is placed on the hex for identification.

### Straight - Monel®
1/4"-28 Taper Thread
Standard Shank

**H1641M**

- **Thread**: 1/4"-28
- **Angle**: Straight
- **Overall Length**: .53" (A)
- **Shank Length**: .19" (B)
- **Min. Thread Length**: .11" (C)
- **Overall Width**: —
- **Thread Diameter**: .25" (F)
- **Swing Clearance**: —
- **Hex**: 5/16" (H)

**H1911M**

- **Angle**: 90°
- **Overall Length**: .75" (A)
- **Shank Length**: .20" (B)
- **Min. Thread Length**: .11" (C)
- **Overall Width**: .68" (D)
- **Thread Diameter**: .25" (F)
- **Swing Clearance**: .49" (G)
- **Hex**: 3/8" (H)

### Button Head

**H1184M**

- **Thread**: 1/8"-27 PTF Spl. Short
- **Overall Length**: .75" (A)
- **Thread Diameter**: .34" (F)
- **Hex / Shoulder Diameter**: 5/8" (H)

**H1877M**

- **Drill Diameter**: 1/8" (A)
- **Thread Diameter**: .18" (F)
- **Hex / Shoulder Diameter**: 5/32" (H)

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**Common Parts**

- Parts with this designation are in wide distribution.

**Alemite®**

- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.

**Lincoln Industrial®**

- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

**John Deere®**

- John Deere® is a registered trademark of Deere and Company, Moline, IL, USA.

**Monel®**

- Monel® is a registered trademark of the Inco Alloys, International, Inc.

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**REVISED 03-19**
Monel® is an alloy composed primarily of nickel (up to 67%) and copper. It resists corrosion caused by alkalis, atmospheric pollutants, organic acids and even chlorine. It is a common material in the manufacture of sea water pumps. Monel® is tolerant of extreme temperatures ranging from sub-zero to nearly 900°F (480°C).
Brass is an uncommon material for grease fittings, though it is slowly gaining popularity as an alternative to stainless steel. Brass fittings are most often found in marine environments, on large wind turbines and in decorative applications. Brass material is spark resistant and is sometimes used in flammable environments.

### Technical Drawings are Approximate Actual Size

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### Brass SAE-LT

#### H1641B

- **Straight - Brass**
- **1/4"-28 Taper Thread**
- **Standard Shank**

#### H1637B

- **45° Angle - Brass**
- **1/4"-28 Taper Thread**
- **Standard Shank**

#### H1911B

- **90° Angle - Brass**
- **1/4"-28 Taper Thread**
- **Standard Shank**

---

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
---|---|---|---|---|---|---|---|---|---
H1641B | 1/4"-28 | Straight | .54" | .18" | .10" | — | .25" | — | 5/16"
H1637B | 1/4"-28 | 45° | .82" | .20" | .10" | .58" | .25" | .39" | 3/8"
H1911B | 1/4"-28 | 90° | .75" | .20" | .10" | .66" | .25" | .47" | 3/8"

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**Customers Also Bought**

**Custom Brass Fittings**

**Button Head Fittings and Other Custom Parts are Available by Special Order**

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Monel® is a registered trademark of the Inco Alloys, International, Inc.
Brass has excellent corrosion resistance compared to stainless steel, but it is less resistant to wear.

### H1610B
- **Straight - Brass**
- **1/8"-27 PTF Spl. Extra Short**
- **Standard Shank**

### H1710B
- **5/16"-24 UNF**
- **Short Shank**

### H1710B
- **3/8"-24 UNF**
- **Standard Shank**

---

### PARALLEL THREADS

The corrosion resistance of brass fittings makes them ideal for use on water pumps and fire trucks. Their attractive color also makes them suited as decorative features for antique equipment or custom vehicles.

### H1610B
- **5/16"-27 PTF Spl. Extra Short**
- **Standard Shank**

### H1710B
- **1/8"-27 PTF Spl. Extra Short**
- **Standard Shank**

---

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**DESIGN STANDARDS**

The DIN standards are the most commonly accepted standards governing metric grease fittings. DIN stands for Deutsches Institut für Normung (German Institute for Standardization) and, much like SAE, their standards cover a wide variety of products including fasteners, keystock, pins and more. DIN standards are often misunderstood in the United States due to unfamiliarity and the language barrier. Additionally, American practice is often integrated with DIN standards resulting in an informal, hybrid standard of DIN and SAE. For example: Metric threaded grease fittings might have DIN threads with SAE compliant nipple profiles, plating and/or heat treatment. The purpose of this section is to familiarize the user with the basic aspects of the DIN standard, and to outline the most common domestic deviations.

### Fitting Design

**Nipple Profile**
- DIN 71412
- Similar to SAE JS34

**Plating**
- DIN 267-9
- DIN EN ISO 4042
- 72 hour Salt Spray test

**Machined Threads**
- DIN 13 (Metric Parallel)
- DIN 158 (Metric Tapered)
- DIN 2999 (British Whitworth)

**Concentric Ball**
- DIN 71412
- Positioned flush to the surface of the nipple

**Heat Treatment**
- DIN EN ISO 6507
- 550HV Case Depth: 0.08 mm - 0.15 mm
  
  (0.003" - 0.006")

**Shank Length**
- Standardized per DIN 71412

**Assembly**
- Lip is sealed after assembly of ball & spring

### Nipple Variations

DIN Standard head profiles are similar to SAE Standard profiles, except that DIN heads are machined from a sphere. However, standard couplers will lubricate both fitting styles.

### Coupler Alignment

Nipples or heads are hardened to provide additional strength and to minimize wear from repeated contact with the jaws of a grease gun coupler during use.

### Body Types

Body forms are specified by DIN 71412. Square and hex body forms are allowable on angled fittings, and these unique body forms may help users identify metric fittings. Standard, round body forms most common in the U.S. are often substituted with no impact on functionality.

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REVISED 03-19
**DESIGN STANDARDS**

### THREAD SPECIFICATION

1. **METRIC TAPERED THREADS**
   ISO metric threads are the most widely used threads in the world. They share the 60° thread profile of NPT, but the shanks are metric sized. Metric threads are tapered unless otherwise noted.

2. **WHITWORTH THREADS**
   The less common Whitworth form British thread is often considered to be metric. This is likely due to their non-domestic origin.

### MANUFACTURING

Metric fittings that comply with DIN standard specifications are manufactured to the same high standard you expect of G.L. Huyett products. Metric fittings exceed inspection requirements of the DIN Standard.

#### PRODUCTION

1. **TURNED & FORMED**
   Fittings are turned, threads are formed.

2. **HEAT TREATED**
   The nipple is hardened.
   
   Please note threads are also hardened on thread forming fittings.

3. **PLATED**
   Zinc yellow plating is typically specified because of its added corrosion resistance as compared to zinc clear plating.

4. **ASSEMBLED**
   Ball check and spring along with any other critical pieces are inserted and the lip is rolled to secure internal parts.

5. **OPTICAL INSPECTION**
   Inspection ensures that no part leaves the facility without a ball check.

#### TURNED & FORMED

- **HEAT TREATED**
  
  **PLATED**
  DIN 261-3, DIN EN ISO 4042

#### ASSEMBLED

- **PASS**
  - Inspection ensures that no part leaves the facility without a ball check.

- **FAIL**
  - No ball check
6.0 mm threads are comparable in size to 1/4"-28 and are used in many of the same applications. The extended shank on the H213014Z3 allows for access to hard-to-reach greasing points. Our in-house machine shop can custom make your grease fitting, no matter the size, material or plating.

### H2106Z3
- **Straight**
- **M6 x 1.0 Taper Thread**
- **Standard Shank**

### H2101Z3
- **45° Angle**
- **M6 x 1.0 Taper Thread**
- **Standard Shank**

### H2108Z3
- **90° Angle**
- **M6 x 1.0 Taper Thread**
- **Standard Shank**

### H211652Z3
- **Straight**
- **M6 x 1.0 Taper Thread**
- **Long Shank**

### H211680Z3
- **Straight**
- **M6 x 1.0 Taper Thread**
- **Extra Long Shank**

### H213014Z3
- **Straight**
- **M6 x 1.0 Taper Thread**
- **Ultra Long Shank**

#### Technical Drawings are Approximate Actual Size

#### Common Parts
- Parts with the designation are in wide distribution.

#### Alemite®
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#### Lincoln Industrial®
- Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

#### John Deere®
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**Item #** | **Thread** | **Angle** | **Overall Length** | **Shank Length** | **Min. Thread Length** | **Overall Width** | **Thread Diameter** | **Swing Clearance** | **Hex**
---|---|---|---|---|---|---|---|---|---
H2106Z3 | M6 x 1.0 | Straight | 16.0 mm | 5.5 mm | 3.7 mm | — | 6.0 mm | — | 7.0 mm
H2107Z3 | M6 x 1.0 | 45° | 21.0 mm | 5.5 mm | 3.7 mm | 14.0 mm | 6.0 mm | 10.0 mm | 9.0 mm
H2108Z3 | M6 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 16.0 mm | 6.0 mm | 12.0 mm | 9.0 mm
H211652Z3 | M6 x 1.0 | Straight | 17.3 mm | 8.5 mm | 5.0 mm | — | 6.0 mm | — | 7.0 mm
H211680Z3 | M6 x 1.0 | Straight | 24.0 mm | 14.0 mm | 6.0 mm | — | 6.0 mm | — | 7.0 mm
H213014Z3 | M6 x 1.0 | Straight | 41.0 mm | 31.0 mm | 5.0 mm | — | 6.0 mm | — | 7.0 mm
8.0 mm threads are commonly used in standard-duty applications, such as on cars and light trucks. Many thread sizes are available in extra-fine, fine, coarse and extra-coarse thread. Please visit our Thread Guide on pages 6-9 for more information on metric threads.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2103Z3</td>
<td>M8 x 1.0</td>
<td>Straight</td>
<td>16.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2104Z3</td>
<td>M8 x 1.0</td>
<td>45°</td>
<td>21.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>14.0 mm</td>
<td>8.0 mm</td>
<td>9.8 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2105Z3</td>
<td>M8 x 1.0</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>16.0 mm</td>
<td>8.0 mm</td>
<td>12.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2112Z3</td>
<td>M8 x 1.25</td>
<td>Straight</td>
<td>17.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2113Z3</td>
<td>M8 x 1.25</td>
<td>45°</td>
<td>21.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>14.0 mm</td>
<td>8.0 mm</td>
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<td>H2114Z3</td>
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<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>16.0 mm</td>
<td>8.0 mm</td>
<td>12.0 mm</td>
<td>9.0 mm</td>
</tr>
</tbody>
</table>
M10 - POPULAR

The larger, stronger 10.0 mm threads on these parts are suited for use on industrial machinery, construction equipment and on any rugged application where fitting damage is a concern. The full hex body form of the H2111Z3 is preferred in some applications but functions similarly to conventional round body forms.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2109Z3</td>
<td>M10 x 1.0</td>
<td>Straight</td>
<td>16.0 mm</td>
<td>5.5 mm</td>
<td>—</td>
<td>10.0 mm</td>
<td>—</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2110Z3</td>
<td>M10 x 1.0</td>
<td>45° Angle</td>
<td>21.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>16.0 mm</td>
<td>10.0 mm</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2111Z3</td>
<td>M10 x 1.0</td>
<td>90° Angle</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>20.0 mm</td>
<td>10.0 mm</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>H211610Z3</td>
<td>M10 x 1.0</td>
<td>Straight</td>
<td>17.5 mm</td>
<td>7.5 mm</td>
<td>4.0 mm</td>
<td>10.0 mm</td>
<td>—</td>
<td>11.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

**TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE**

**COLOR CODED GREASE CAPS, PAGE 106, HELP TO LABEL GREASING POINTS FOR SPECIFIC LUBRICANTS AND/OR GREASING SCHEDULES**

**PROTECTIVE DEVICES**

**DOME STYLE CAP**

**TAB STYLE CAP**

**Common Parts**

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**Alamite®**

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G.L. Huyett offers an extensive line of metric grease fittings for a variety of applications. 5.0 mm shanks are for use in light-duty applications. If the grease fitting you are looking for is not listed, call our Sales Team for assistance.

### M5 & M6

**Technical Drawings are Approximate Actual Size**

**Common Parts**

Parts with this designation are in wide distribution.

**Available in Stainless**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (E)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>Straight</td>
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<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>5.0 mm</td>
<td>7.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2101Z3</td>
<td>M5 x 0.8</td>
<td>45°</td>
<td>23.5 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
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<td>10.0 mm</td>
<td>9.0 mm</td>
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<tr>
<td>H2102Z3</td>
<td>M5 x 0.8</td>
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<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>17.0 mm</td>
<td>5.0 mm</td>
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<td>9.0 mm</td>
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<tr>
<td>H2115Z3</td>
<td>M6 x 0.75</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>6.0 mm</td>
<td>—</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>H2116Z3</td>
<td>M6 x 0.75</td>
<td>45°</td>
<td>23.5 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
<td>6.0 mm</td>
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<td>H2117Z3</td>
<td>M6 x 0.75</td>
<td>90°</td>
<td>18.0 mm</td>
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<td>3.7 mm</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>13.0 mm</td>
<td>9.0 mm</td>
</tr>
</tbody>
</table>

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M7 & M8

G.L. Huyett offers an extensive line of metric grease fittings for a variety of applications, including 7.0 mm which is an uncommon thread type. The fine threaded M8 x 0.75 offers added thread engagement.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
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<td>M7 x 1.0</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>7.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
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<tr>
<td>H2140Z3</td>
<td>M7 x 1.0</td>
<td>45°</td>
<td>23.5 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
<td>7.0 mm</td>
<td>10.0 mm</td>
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<tr>
<td>H2141Z3</td>
<td>M7 x 1.0</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>17.0 mm</td>
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<td>9.0 mm</td>
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<tr>
<td>H2118Z3</td>
<td>M8 x 0.75</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2119Z3</td>
<td>M8 x 0.75</td>
<td>45°</td>
<td>23.5 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
<td>8.0 mm</td>
<td>10.0 mm</td>
<td>9.0 mm</td>
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<tr>
<td>H2120Z3</td>
<td>M8 x 0.75</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>17.0 mm</td>
<td>8.0 mm</td>
<td>13.0 mm</td>
<td>9.0 mm</td>
</tr>
</tbody>
</table>
Coarse threads, like those found on this page, offer several advantages. They are quick to assemble and less likely to seize in the hole or strip in soft materials. Installation in brittle materials is easier, and they are less affected by nicks and burrs.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
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<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>3.7 mm</td>
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<td>11.0 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H2137Z3</td>
<td>M10 x 1.25</td>
<td>45°</td>
<td>25.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>17.0 mm</td>
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<td>11.0 mm</td>
</tr>
<tr>
<td>H2138Z3</td>
<td>M10 x 1.25</td>
<td>90°</td>
<td>20.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>19.0 mm</td>
<td>10.0 mm</td>
<td>14.0 mm</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>H2112Z3</td>
<td>M10 x 1.5</td>
<td>Straight</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>10.0 mm</td>
<td>11.0 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H2122Z3</td>
<td>M10 x 1.5</td>
<td>45°</td>
<td>21.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>16.0 mm</td>
<td>10.0 mm</td>
<td>11.0 mm</td>
<td>11.0 mm</td>
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<tr>
<td>H2123Z3</td>
<td>M10 x 1.5</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>20.0 mm</td>
<td>10.0 mm</td>
<td>15.0 mm</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>
12.0 mm threads are commonly used in heavy-duty applications and on large bearings. The larger size makes them well suited for cold weather applications and for use with heavy lubricants. Coarse threads are recommended for soft materials such as aluminum.

### Technical Drawings are Approximate Actual Size

#### Common Parts

- Parts with this designation are in wide distribution.
- Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
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### Item # | Thread | Angle (°) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H) |
<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>H2142Z3</td>
<td>M12 x 1.0</td>
<td>Straight</td>
<td>17.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>12.0 mm</td>
<td>—</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H2143Z3</td>
<td>M12 x 1.0</td>
<td>45°</td>
<td>22.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>19.0 mm</td>
<td>12.0 mm</td>
<td>12.0 mm</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H2144Z3</td>
<td>M12 x 1.0</td>
<td>90°</td>
<td>22.0 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>23.0 mm</td>
<td>12.0 mm</td>
<td>16.0 mm</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H2145Z3</td>
<td>M12 x 1.25</td>
<td>Straight</td>
<td>17.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>12.0 mm</td>
<td>—</td>
<td>14.0 mm</td>
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<tr>
<td>H2124Z3</td>
<td>M12 x 1.5</td>
<td>Straight</td>
<td>17.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>12.0 mm</td>
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<td>14.0 mm</td>
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<td>H2125Z3</td>
<td>M12 x 1.5</td>
<td>45°</td>
<td>22.5 mm</td>
<td>6.5 mm</td>
<td>3.7 mm</td>
<td>19.0 mm</td>
<td>12.0 mm</td>
<td>12.0 mm</td>
<td>14.0 mm</td>
</tr>
</tbody>
</table>

### Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

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www.huyett.com
BOX 232 • MINNEAPOLIS, KS • 67467

REVISED 03-19
M12 & M16

The extra large 16.0 mm threads are well suited for extreme environments. These fittings accept large volumes of heavy weight lubricants, and perform well in cold weather.

### Technical Drawings are Approximate Actual Size

**Common Parts**

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- **Lincoln®**
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- **John Deere®**
  - John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

**Exceeds 72 hr salt spray.**

**8,000 psi Max pressure.**

The extra large 16.0 mm threads are well suited for extreme environments. These fittings accept large volumes of heavy weight lubricants, and perform well in cold weather.

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H2126Z3 | M12 x 1.5 | 90° | 22.0 mm | 6.5 mm | 3.7 mm | 23.0 mm | 12.0 mm | 16.0 mm | 14.0 mm
H214823 | M12 x 1.75 | Straight | 17.5 mm | 6.5 mm | 3.7 mm | — | 12.0 mm | — | 14.0 mm
H2149Z3 | M12 x 1.75 | 45° | 22.5 mm | 6.5 mm | 3.7 mm | 19.0 mm | 12.0 mm | 12.0 mm | 14.0 mm
H2150Z3 | M12 x 1.75 | 90° | 22.0 mm | 6.5 mm | 3.7 mm | 19.0 mm | 12.0 mm | 12.0 mm | 14.0 mm
H2151Z3 | M16 x 1.5 | Straight | 18.0 mm | 7.0 mm | 4.0 mm | — | 16.0 mm | — | 17.0 mm
H2152Z3 | M16 x 1.5 | 45° | 25.5 mm | 7.0 mm | 4.0 mm | 22.0 mm | 16.0 mm | 13.0 mm | 17.0 mm
**Driveline Fittings**

Metric drive type fittings have smooth shanks which offer added surface area contact over serrated shanks. These fittings are not recommended for use with high back pressure or with pneumatic grease guns. Testing is recommended to ensure drive type fittings are compatible with your application.

### Table of Drive Type Fittings

<table>
<thead>
<tr>
<th>Item #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
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</thead>
<tbody>
<tr>
<td>H2500Z3</td>
<td>≈ 5.0 mm Drill</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>—</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>Yes</td>
</tr>
<tr>
<td>H2506Z3</td>
<td>≈ 6.0 mm Drill</td>
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<td>15.0 mm</td>
<td>—</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>Yes</td>
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<tr>
<td>H2507Z3</td>
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<td>9.0 mm sq.</td>
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<tr>
<td>H2508Z3</td>
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<td>18.0 mm</td>
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<td>9.0 mm sq.</td>
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<td>Yes</td>
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<tr>
<td>H2503Z3</td>
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<td>Straight</td>
<td>14.7 mm</td>
<td>5.5 mm</td>
<td>—</td>
<td>10.0 mm</td>
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<td>9.0 mm sq.</td>
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<td>9.0 mm sq.</td>
<td>—</td>
<td>Yes</td>
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<tr>
<td>H2509Z3</td>
<td>≈ 10.0 mm Drill</td>
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<td>15.0 mm</td>
<td>5.5 mm</td>
<td>—</td>
<td>12.0 mm</td>
<td>—</td>
<td>Yes</td>
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<td>H2960Z3</td>
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<td>45°</td>
<td>20.5 mm</td>
<td>5.5 mm</td>
<td>16.0 mm</td>
<td>11.0 mm sq.</td>
<td>—</td>
<td>Yes</td>
</tr>
<tr>
<td>H2961Z3</td>
<td>≈ 10.0 mm Drill</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>20.0 mm</td>
<td>15.0 mm sq.</td>
<td>—</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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- John Deere® is a registered trademark of Deere and Company, Moline, Ill., USA.

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Thread forming fittings are ideal for high-volume assembly line applications or anywhere thread tapping is an unwanted step in grease fitting installation. When replacement is necessary, standard metric fittings may be used.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2206Z3</td>
<td>S6 x 1.0</td>
<td>Straight</td>
<td>16.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>—</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>H2207</td>
<td>S6 x 1.0</td>
<td>45°</td>
<td>20.2 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
<td>10.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2208Z3</td>
<td>S6 x 1.0</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
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<td>9.0 mm</td>
</tr>
<tr>
<td>H2203</td>
<td>S8 x 1.0</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>—</td>
<td>9.0 mm</td>
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<tr>
<td>H2204</td>
<td>S8 x 1.0</td>
<td>45°</td>
<td>20.2 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>15.0 mm</td>
<td>10.0 mm</td>
<td>9.0 mm</td>
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<tr>
<td>H2205</td>
<td>S8 x 1.0</td>
<td>90°</td>
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<td>9.0 mm</td>
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<tr>
<td>H2209</td>
<td>S10 x 1.0</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>—</td>
<td>11.0 mm</td>
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<td>H2210</td>
<td>S10 x 1.0</td>
<td>45°</td>
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<td>3.7 mm</td>
<td>16.0 mm</td>
<td>11.0 mm</td>
<td>11.0 mm</td>
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<tr>
<td>H2211</td>
<td>S10 x 1.0</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>20.0 mm</td>
<td>15.0 mm</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>

Note:
- S6 x 1.0 mm approximate hole size 5.45-5.55 mm
- S8 x 1.0 mm approximate hole size 7.45-7.55 mm
- S10 x 1.0 mm approximate hole size 9.45-9.55 mm

Common Parts
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### BUTTON HEAD

Button head fittings are designed with a large flat head which makes them suitable for rugged environments or applications where horizontal access to the greasing point is required. Parallel threads ensure fittings seat flush against the shoulder. G.L. Huyett's standard button head couplers, page 120, are specially engineered to accommodate both metric and Inch button head fittings.

#### TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

#### BUTTON HEAD - STANDARD

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2303Z3</td>
<td>M8 x 1.0</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>6.0 mm</td>
<td>17.0 mm</td>
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<tr>
<td>H2304Z3</td>
<td>M8 x 1.25</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>7.9 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
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<tr>
<td>H2309Z3</td>
<td>M10 x 1.0</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>9.8 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
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<tr>
<td>H2311Z3</td>
<td>M10 x 1.5</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>9.8 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
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#### BUTTON HEAD - HEAVY DUTY

<table>
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<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2316Z3</td>
<td>M12 x 1.75</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>11.2 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H2319Z3</td>
<td>M14 x 1.5</td>
<td>17.0 mm</td>
<td>6.0 mm</td>
<td>3.7 mm</td>
<td>13.7 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H3232Z3</td>
<td>M16 x 1.5</td>
<td>18.0 mm</td>
<td>7.0 mm</td>
<td>4.0 mm</td>
<td>15.6 mm</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

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Safety vent fittings, which have a groove cut into the threads, allow excess pressure to escape preventing overpressurization and subsequent bearing seal damage. Top vent relief fittings are designed for applications where internal pressure requires control. Custom sizes and pressure ratings are available on request, see pages 50-51 for more information.

### TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

#### Item # Thread Angle Overall Length Shank Length Min. Thread Length Overall Width Thread Diameter Swing Clearance Hex

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2930Z3</td>
<td>M6 x 1.0</td>
<td>Straight</td>
<td>16.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>6.0 mm</td>
<td>—</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>H2931Z3</td>
<td>M8 x 1.0</td>
<td>Straight</td>
<td>16.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2932Z3</td>
<td>M6 x 1.0</td>
<td>90°</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>16.0 mm</td>
<td>6.0 mm</td>
<td>12.0 mm</td>
<td>9.0 mm</td>
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<tr>
<td>H47900Z3</td>
<td>M10 x 1.0</td>
<td>Straight</td>
<td>11.0 mm</td>
<td>6.0 mm</td>
<td>5.5 mm</td>
<td>—</td>
<td>10.0 mm</td>
<td>—</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>

### DUAL NIPPLES

Dual greasing nipples allow lubrication to be performed from either side of a machine, or where assembly rotation changes orientation and access to greasing nipples. Fittings with four nipples are available by special order.

#### Item # Thread Angle Overall Length Shank Length Min. Thread Length Overall Width Thread Diameter Swing Clearance Square

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Square (H)</th>
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<tbody>
<tr>
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<td>M6 x 1.0</td>
<td>90° (x2)</td>
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<td>3.7 mm</td>
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<td>9.0 mm</td>
</tr>
<tr>
<td>H2X2105Z3</td>
<td>M8 x 1.0</td>
<td>90° (x2)</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
<td>3.7 mm</td>
<td>29.0 mm</td>
<td>8.0 mm</td>
<td>14.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>H2X2111Z3</td>
<td>M10 x 1.0</td>
<td>90° (x2)</td>
<td>18.0 mm</td>
<td>5.5 mm</td>
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<td>30.0 mm</td>
<td>10.0 mm</td>
<td>15.0 mm</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>
Flush type fittings are ideal for applications where protruding greasing nipples may be impractical. Metric flush type fittings are available in both parallel and taper thread. Our angled flush type fittings possess tapered threads.

### Item # | Thread Type | Angle | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Thread Diameter (F) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | ---
H2406Z3 | M6 x 1.0 Parallel | Straight | 8.5 mm | 5.5 mm | 3.7 mm | 6.0 mm | 7.0 mm
H2407Z3 | M6 x 1.0 Taper | 45° | 18.0 mm | 5.5 mm | 3.7 mm | 6.0 mm | 9.0 mm sq.
H2408 | M6 x 1.0 Taper | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 6.0 mm | 9.0 mm sq.
H2403Z3 | M8 x 1.0 Parallel | Straight | 9.5 mm | 6.5 mm | 3.7 mm | 7.9 mm | 9.0 mm
H2404Z3 | M8 x 1.0 Taper | 45° | 16.0 mm | 5.5 mm | 3.7 mm | 8.0 mm | 9.0 mm sq.
H2405Z3 | M8 x 1.0 Taper | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 8.0 mm | 9.0 mm sq.
H2412Z3 | M8 x 1.25 Parallel | Straight | 9.5 mm | 6.5 mm | 3.7 mm | 7.9 mm | 9.0 mm
H2409Z3 | M10 x 1.0 Parallel | Straight | 9.5 mm | 6.5 mm | 3.7 mm | 9.8 mm | 11.0 mm
H2410Z3 | M10 x 1.0 Taper | 45° | 16.5 mm | 5.5 mm | 3.7 mm | 10.0 mm | 11.0 mm sq.
H2411Z3 | M10 x 1.0 Taper | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 10.0 mm | 11.0 mm sq.
H2421Z3 | M10 x 1.5 Parallel | Straight | 9.5 mm | 6.5 mm | 3.7 mm | 9.8 mm | 11.0 mm
H2424Z3 | M12 x 1.5 Parallel | Straight | 14.0 mm | 9.5 mm | 4.2 mm | 11.8 mm | 14.0 mm
The unusual greasing head on a ball type fitting is no longer covered by DIN 3402, but is still available from G.L. Huyett. Unlike the standard DIN 71412 greasing head, which forms a positive lock between the grease coupler and head, a ball type fitting is serviced using a push type greasing nozzle like those found on pages 125 and 126.

### Technical Drawings are Approximate Actual Size

### Common Parts

- **Alemite®**
  - Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
- **Lincoln Industrial®**
  - Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.
- **John Deere®**
  - John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H2902Z3 | M6 x 0.75 | Straight | 11.5 mm | 2.9 mm | 2.0 mm | — | 6.0 mm | — | 7.0 mm

H2899Z3 | M6 x 1.0 | Straight | 14.0 mm | 5.5 mm | 3.7 mm | — | 6.0 mm | — | 7.0 mm

H2907Z3 | M6 x 1.0 | 45° | 19.0 mm | 5.5 mm | 3.7 mm | 13.0 mm | 6.0 mm | 9.0 mm | 9.0 mm sq.

H2908Z3 | M6 x 1.0 | 90° | 19.0 mm | 5.5 mm | 3.7 mm | 17.0 mm | 6.0 mm | 13.0 mm | 9.0 mm sq.

H2912Z3 | M8 x 1.0 | Straight | 14.0 mm | 5.5 mm | 3.7 mm | — | 8.0 mm | — | 9.0 mm

H2904Z3 | M8 x 1.0 | 45° | 19.0 mm | 5.5 mm | 3.7 mm | 13.0 mm | 8.0 mm | 9.0 mm | 9.0 mm sq.

H2905Z3 | M8 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 17.0 mm | 8.0 mm | 13.0 mm | 9.0 mm sq.

H2909Z3 | M10 x 1.0 | Straight | 14.0 mm | 5.5 mm | 3.7 mm | — | 10.0 mm | — | 11.0 mm

H2910Z3 | M10 x 1.0 | 45° | 19.0 mm | 5.5 mm | 3.7 mm | 15.0 mm | 10.0 mm | 9.5 mm | 11.0 mm sq.

H2911Z3 | M10 x 1.0 | 90° | 18.0 mm | 5.5 mm | 3.7 mm | 19.0 mm | 10.0 mm | 14.0 mm | 11.0 mm sq.

H2924Z3 | M12 x 1.5 | Straight | 16.0 mm | 6.5 mm | 3.7 mm | — | 12.0 mm | — | 14.0 mm

---

All manufacturer names and numbers are for cross reference identification purposes only. In no way are we implying that our parts were made by the manufacturers listed. Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019
BRITISH - THREAD

Sometimes referred to as Whitworth, British taper threads are commonly used in Europe. Please note, caution should be used when measuring these threads, as they are very close in size to the American PTF threads. The American threads will thread into British machined holes. The seal will be inferior and may result in thread damage. These British tapered threads are covered by DIN 2999. German fittings are available and possess the same attributes as the British fittings.

### Technical Drawings are Approximate Actual Size

**Common Parts**
Parts with this designation are in wide distribution.

**Aleman®**
Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.

**Lincoln Industrial®**
Lincoln Industrial® is a registered trademark of Lincoln Industrial (USA) Corp.

**John Deere®**
John Deere® is a registered trademark of Deere and Company, Moline, Illinois.

Exceeds 72 hr salt spray. 8,000 psi max pressure.

### Item # | Thread | Angle | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (E) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H2600Z3 | 1/8"-28 BSPT | Straight | .63" | .22" | .15" | — | .38" | — | 11.0 mm
H2601Z3 | 1/8"-28 BSPT | 45° Angle | .98" | .22" | .15" | .67" | .38" | .43" | 11.0 mm
H2602Z3 | 1/8"-28 BSPT | 90° Angle | .79" | .22" | .15" | .75" | .38" | .55" | 11.0 mm
H2603Z3 | 1/4"-19 BSPT | Straight | .69" | .26" | .15" | — | .47" | — | 14.0 mm
H2604Z3 | 1/4"-19 BSPT | 45° Angle | .89" | .26" | .15" | .75" | .47" | .47" | 14.0 mm
H2605Z3 | 1/4"-19 BSPT | 90° Angle | .87" | .26" | .15" | .91" | .47" | .63" | 14.0 mm
The large threads on the 3/8"-19 BSPT fittings make them well suited for rugged applications like cold weather, heavy lubricants and environments which may damage smaller fittings. Please note, care should be used to not interchange 3/8"-19 BSPT and 3/8"-18 PTF fittings. These British tapered threads are covered by DIN 2999.

### H2606Z3
**Straight**
3/8"-19 BSPT
Standard Shank

### H2607Z3
45° Angle
3/8"-19 BSPT
Standard Shank

### H2608Z3
90° Angle
3/8"-19 BSPT
Standard Shank

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
<td>H2606Z3</td>
<td>3/8&quot;-19 Straight</td>
<td>.71&quot;</td>
<td>.28&quot;</td>
<td>.16&quot;</td>
<td>—</td>
<td>.63&quot;</td>
<td>—</td>
<td>17.0 mm</td>
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<tr>
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<td>1.00&quot;</td>
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<td>.87&quot;</td>
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<td>.51&quot;</td>
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</tr>
<tr>
<td>H2608Z3</td>
<td>3/8&quot;-19 90°</td>
<td>.79&quot;</td>
<td>.28&quot;</td>
<td>.16&quot;</td>
<td>1.06&quot;</td>
<td>.63&quot;</td>
<td>.75&quot;</td>
<td>17.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

**CONSIDER THIS...**

Caution should be used when measuring British threads, as many common British sizes differ from common American sizes only slightly. Mismatched threads will provide an inferior engagement and may result in fitting failure.
G.L. Huyett offers an extensive line of grease fittings with British pipe thread. The fittings found on this page are commonly used for light-duty industrial and automotive applications. These British fine threads are covered by BS 84. Custom sizes, angles and materials are available on request. If your fitting is not pictured, please call our Sales Team for assistance.

### Technical Drawings are Approximate Actual Size
### Common Parts
Parts with this designation are in wide distribution.

### Exceeds 72 hr salt spray.
### 8,000 psi Max Pressure.

---

### BRITISH - FINE THREAD

**DIN 31412**

G.L. Huyett offers an extensive line of grease fittings with British pipe thread. The fittings found on this page are commonly used for light-duty industrial and automotive applications. These British fine threads are covered by BS 84. Custom sizes, angles and materials are available on request. If your fitting is not pictured, please call our Sales Team for assistance.

#### H2700Z3

- **Straight**
- 1/4"-26 BSF
- Standard Shank

#### H2701Z3

- **45° Angle**
- 1/4"-26 BSF
- Standard Shank

#### H2702Z3

- **90° Angle**
- 1/4"-26 BSF
- Standard Shank

#### H2703Z3

- **Straight**
- 5/16"-22 BSF
- Standard Shank

#### H2704Z3

- **45° Angle**
- 5/16"-22 BSF
- Standard Shank

#### H2705Z3

- **90° Angle**
- 5/16"-22 BSF
- Standard Shank

---

### Item # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H)
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
H2700Z3 | 1/4"-26 | Straight | .59" | .22" | .15" | — | .25" | — | 7.0 mm
H2701Z3 | 1/4"-26 | 45° | .93" | .22" | .15" | .59" | .25" | .39" | 9.0 mm
H2702Z3 | 1/4"-26 | 90° | .71" | .22" | .15" | .67" | .25" | .51" | 9.0 mm
H2703Z3 | 5/16"-22 | Straight | .59" | .22" | .15" | — | .31" | — | 9.0 mm
H2704Z3 | 5/16"-22 | 45° | .93" | .22" | .15" | .59" | .31" | .39" | 9.0 mm
H2705Z3 | 5/16"-22 | 90° | .71" | .22" | .15" | .67" | .31" | .51" | 9.0 mm

---

All manufacturer names and numbers are for cross reference identification purposes only. In no way are we implying that our parts were made by the manufacturers listed.

Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

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**REVISED 03-19**
British fine threaded fittings have machine screw style parallel threads that are covered by BS 84. As with all parallel threaded fittings, G.L. Huyett recommends the use of thread sealant for best results.

### PROS
- Greater cross-section provides stronger threads
- Easier to tap into hard materials
- Added thread engagement in thinner materials

### CONS
- Assembly is slower and more likely to cross-thread
- More likely to seize in corroded environments
- More likely to strip in low strength materials

### FINE THREAD ASSESSMENT

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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</thead>
<tbody>
<tr>
<td>H2706Z3</td>
<td>3/8&quot;-20 Straight</td>
<td>.59&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>—</td>
<td>.37&quot;</td>
<td>—</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2707Z3</td>
<td>3/8&quot;-20 45°</td>
<td>.98&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.67&quot;</td>
<td>.37&quot;</td>
<td>.43&quot;</td>
<td>11.0 mm</td>
<td></td>
</tr>
<tr>
<td>H2708Z3</td>
<td>3/8&quot;-20 90°</td>
<td>.79&quot;</td>
<td>.22&quot;</td>
<td>.15&quot;</td>
<td>.75&quot;</td>
<td>.37&quot;</td>
<td>.55&quot;</td>
<td>11.0 mm</td>
<td></td>
</tr>
</tbody>
</table>

*Greater cross-section provides stronger threads*

*Assembly is slower and more likely to cross-thread*

*Easier to tap into hard materials*

*More likely to seize in corroded environments*

*Added thread engagement in thinner materials*
### BRITISH - BUTTON HEAD

BSPP threads are parallel pipe threads which allow the fitting to seat firmly against the shoulder. Button head fittings are designed with a large flat head which make them suitable for rugged environments or applications where horizontal access to the greasing point is required. The H2853Z3 is a heavy duty button head fitting with a large 22.0 mm head for use in heavy-duty applications.

#### H2800Z3
- **Button Head - Standard**
- 1/8"-28 BSPP
- Ball Check

#### H2803Z3
- **Button Head - Standard**
- 1/4"-19 BSPP
- Ball Check

#### H2853Z3
- **Button Head - Heavy Duty**
- 1/4"-19 BSPP
- Ball Check

#### H2806Z3
- **Button Head - Standard**
- 3/8"-19 BSPP
- Ball Check

### Dimensions

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
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<tbody>
<tr>
<td>H2800Z3</td>
<td>1/8&quot;-28</td>
<td>.67&quot;</td>
<td>.24&quot;</td>
<td>.15&quot;</td>
<td>.38&quot;</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H2803Z3</td>
<td>1/4&quot;-19</td>
<td>.67&quot;</td>
<td>.24&quot;</td>
<td>.15&quot;</td>
<td>.47&quot;</td>
<td>17.0 mm</td>
<td>Ball Check</td>
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<tr>
<td>H2853Z3</td>
<td>1/4&quot;-19</td>
<td>.83&quot;</td>
<td>.28&quot;</td>
<td>.16&quot;</td>
<td>.47&quot;</td>
<td>22.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H2806Z3</td>
<td>3/8&quot;-19</td>
<td>.71&quot;</td>
<td>.28&quot;</td>
<td>.16&quot;</td>
<td>.63&quot;</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>

### BRITISH - FLUSH TYPE

Flush type fittings have a recessed head to allow clearance for neighboring components. They are easily lubricated with a needle nozzle or flush type coupler, found on pages 122-123.

#### H2900Z3
- **Straight Flush Type**
- 1/8"-28 BSPP

#### H2903Z3
- **Straight Flush Type**
- 1/4"-19 BSPP

#### H2906Z3
- **Straight Flush Type**
- 3/8"-19 BSPP

### Dimensions

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
<th>Valve System</th>
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<tbody>
<tr>
<td>H2900Z3</td>
<td>1/8&quot;-28</td>
<td>.37&quot;</td>
<td>.26&quot;</td>
<td>.15&quot;</td>
<td>.38&quot;</td>
<td>11.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H2903Z3</td>
<td>1/4&quot;-19</td>
<td>.55&quot;</td>
<td>.37&quot;</td>
<td>.17&quot;</td>
<td>.47&quot;</td>
<td>14.0 mm</td>
<td>Ball Check</td>
</tr>
<tr>
<td>H2906Z3</td>
<td>3/8&quot;-19</td>
<td>.55&quot;</td>
<td>.37&quot;</td>
<td>.17&quot;</td>
<td>.63&quot;</td>
<td>17.0 mm</td>
<td>Ball Check</td>
</tr>
</tbody>
</table>
BRITISH - RELIEF VENT

Relief vent fittings are designed for applications where internal pressure requires control. These vents open within the stated pressure range (listed below) to release excessive pressure. This prevents over pressurization and subsequent bearing seal damage. For more information about pressure management, see pages 50-51.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Relief Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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</thead>
<tbody>
<tr>
<td>HB317400</td>
<td>1/8”-28</td>
<td>0.25-1 psi</td>
<td>.50”</td>
<td>.30”</td>
<td>.22”</td>
<td>.38”</td>
<td>7/16”</td>
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<tr>
<td>HB47200</td>
<td>1/8”-28</td>
<td>1-5 psi</td>
<td>.50”</td>
<td>.30”</td>
<td>.22”</td>
<td>.38”</td>
<td>7/16”</td>
</tr>
<tr>
<td>HB47100</td>
<td>1/8”-28</td>
<td>45-80 psi</td>
<td>.50”</td>
<td>.30”</td>
<td>.22”</td>
<td>.38”</td>
<td>7/16”</td>
</tr>
</tbody>
</table>

BRITISH - SAFETY VENT

Safety vents are designed with a groove cut into the threads which allows pressure to escape and prevent blowouts. The specially engineered groove does not affect thread engagement.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
<td>H2810Z3</td>
<td>1/8”-28</td>
<td>Straight</td>
<td>.63”</td>
<td>.22”</td>
<td>.15”</td>
<td>—</td>
<td>.38”</td>
<td>—</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>H2811Z3</td>
<td>1/4”-19</td>
<td>Straight</td>
<td>.69”</td>
<td>.26”</td>
<td>.15”</td>
<td>—</td>
<td>.47”</td>
<td>—</td>
<td>14.0 mm</td>
</tr>
<tr>
<td>H2812Z3</td>
<td>3/8”-19</td>
<td>Straight</td>
<td>.71”</td>
<td>.28”</td>
<td>.16”</td>
<td>—</td>
<td>.63”</td>
<td>—</td>
<td>17.0 mm</td>
</tr>
</tbody>
</table>
The Alemite® Corporation has a rich and storied history not unlike that of many American industrial corporations. It begins with Arthur Gulborg in Chicago in the early 20th century. Gulborg was a son of a co-owner of a small die casting plant in Chicago. His job was to lubricate the die casting machines by refilling their oil cups several times a day. This labor-intensive task led him to invent the grease gun (screw type) and grease fitting in 1916. The “fitting” consisted of a braided metal hose with a special end connection. Gulborg named the system, “The Alemite® High-Pressure Lubricating System” after the Alemite® Die Casting and Manufacturing Company where he worked.

In 1918, the Gulborg’s approached the U.S. Army with this invention. Several test installations were made on white trucks in the army service. Gulborg’s invention vastly simplified the task of lubricating army trucks. On July 10th of that year, his part became standard equipment.

Meanwhile elsewhere in Chicago, the Stewart Warner™ Corporation was founded, and by the early 1920’s was a thriving industrial company providing gauges to Henry Ford in support of the emerging U.S. automobile industry. Stewart Warner® was known as much for its product diversity as it was for its signature clock tower that stood over the growing Chicago skyline.

In 1922, Alemite® introduced the button head system to serve as a rugged, heavy-duty lubricating system. Standard and giant versions of the button head fittings were used in a wide range of industry including heavy construction equipment. The junior button head version was used to lubricate motorcycles.

However, the automobile industry had the greatest immediate potential for sales. In 1924 Alemite® was purchased by Stewart Warner®, and within a couple of years, passenger cars were equipped with an Alemite® hand held grease gun and hose assembly as standard equipment. In the same year, Stewart Warner® also purchased the Allyne-Zerk™ Company of Cleveland, Ohio. The Zerk line of lubrication fittings and hand grease guns were added to the Alemite® line. Grease guns became increasingly familiar to the general public, and most automobile lubrication was performed by car owners.

The Zerk design, found in these automobile applications, used a fitting much smaller than the Alemite® pin type grease fitting and did not lock the hose coupler or hand gun and fitting together. Instead, the seal was maintained by the pressure of a pushing action when the operator applied the coupler to the fitting. This became known as a push type system. In 1930, Alemite® introduced new hydraulic fittings. Today’s hydraulic fittings are very similar to the original Zerk version and remain the most popular grease system in the world.

The company was a successful automotive components manufacturer until the 1980’s, when it was purchased by British Tire and Rubber™. BTR sold the Alemite® division to Sentinel Partners™, an investment fund, who in turn sold the firm to Harbour Group® in 2006. Today, Alemite® sells its products only through authorized distributors, of which G.L. Huyett is a big part. Together they continue to focus on quality and innovation in the lubrication industry.

G.L. HUYETT IS AN AUTHORIZED VOLUME DISTRIBUTOR FOR ALEMITE® CORPORATION
ABOUT OSCAR ZERK

The Zerk design’s namesake, Oscar Ulysses Zerk, was a quintessential inventor and entrepreneur. Zerk, who was born in Austria and served in the Austrian army, had over 300 patents to his credit at his passing in 1968 at the age of 90. Besides grease fittings, Zerk invented quick-freezing ice cube trays, fail-safe brakes for trolleys, stamped wheel covers (to replace wood) for cars, vibration-free camera tripods and oil well recovery systems.

Zerk was not only a force in the lab, but also in the board room. By the early 1930’s, Alemite® was producing over 99% of lubrication systems used in the American automobile industry. A 1934 article in *Time* magazine cites a housecleaning of management of Stewart Warner® by Oscar Zerk, who was able to focus the firm away from varied products like refrigerators and cinema equipment, to its core competency — automotive products.

ABOUT THE PARTS

Alemite® has been a constant innovator of grease fittings and lubrication systems, reflecting the entrepreneurial and inventive past of Oscar Zerk. The company is ISO 9000 and QS 9000 certified, and its products meet the highest quality standards.

INNOVATION

Alemite®, a leader in innovation in the lubrication technology field, is constantly refining and improving their product line. The inclusion of Aerospace fittings and the implementation of their cold heading process have helped cement Alemite® position as a leader in the field.

AEROSPACE FITTINGS

Alemite® is one of a handful of manufacturers that can meet the stringent guidelines of SAE AS83341, which includes a battery of testing and certification. See pages 236-237 for more details.

CARBON SHIELD™ is the newest generation of Alemite® atomized oil lubrication systems. While not in the scope of this catalog, the system is reflective of Alemite® innovation.

CORDLESS GREASE GUN

WITH A BIGGER POWER PACK, THIS INNOVATION ALLOWS USERS TO PERFORM INTENSE WORK LONGER, AND WITHOUT THE INTERRUPTION OF A RECHARGE IN THE FIELD. SEE PAGE 221 FOR MORE.

CHAPS™ SYSTEM

ALEMITE® PATENTED COLD HEADER AUTOMATION PRODUCTION SYSTEM™ (CHAPS™). PRODUCES PARTS THAT ARE STRONGER AND MORE UNIFORM IN SIZE THAN CONVENTIONALLY TURNED PARTS.

1-5 microns

CARBON SHIELD™
1/4"-28 SAE-LT fittings are engineered to thread into a 1/4"-28 UNF-3B straight threaded hole. These fittings are common for automotive and standard-duty industrial applications. The 3014-B and 1698-B have extended shank lengths for deep seated bearings. The extended shank allows for the placement of fittings into recessed areas.

### Technical Specifications

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>A1641</td>
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<td>.19&quot;</td>
<td>.11&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
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</tr>
<tr>
<td>1652-B</td>
<td>A1652</td>
<td>1/4&quot;-28</td>
<td>.69&quot;</td>
<td>.36&quot;</td>
<td>.20&quot;</td>
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<td>5/16&quot;</td>
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<td>1680-B</td>
<td>A1680</td>
<td>1/4&quot;-28</td>
<td>.97&quot;</td>
<td>.63&quot;</td>
<td>.27&quot;</td>
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<td>.25&quot;</td>
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<td>5/16&quot;</td>
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<td>3014-B</td>
<td>A3014</td>
<td>1/4&quot;-28</td>
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<td>1698-B</td>
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<td>.78&quot;</td>
<td>.20&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**How to ID**

Alemite® fittings are equipped with red ball checks for easy identification.

**Common Parts**

- Parts with this designation are in wide distribution.

** marks parts with this designation are in wide distribution.
A common sight on automobile chassis, 90° angle fittings are often used when overhead access is impractical. Angled fittings are often necessary to allow for maintenance in confined areas. Standard Alemite® fittings can be identified by their red ball checks.

### Technical Drawings are Approximate Actual Size

![Diagram](image)

**GM 714500**
GM/CH 9411030
Available in Stainless
Available in Monel®

**GM 714501**
GM/CH 9411032
Available in Stainless
Available in Monel®

### ALEMITE Item # | G.L. HUYETT Order # | Thread | Angle (E) | Overall Length (A) | Shank Length (B) | Min. Thread Length (C) | Overall Width (D) | Thread Diameter (F) | Swing Clearance (G) | Hex (H) |
<table>
<thead>
<tr>
<th></th>
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<td>.20&quot;</td>
<td>.11&quot;</td>
<td>.58&quot;</td>
<td>.25&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
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<tr>
<td>3010-B1</td>
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<td>1/4&quot;-28</td>
<td>65°</td>
<td>.78&quot;</td>
<td>.30&quot;</td>
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<td>.66&quot;</td>
<td>.25&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
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<td>1911-B1</td>
<td>A1911</td>
<td>1/4&quot;-28</td>
<td>90°</td>
<td>.75&quot;</td>
<td>.20&quot;</td>
<td>.11&quot;</td>
<td>.69&quot;</td>
<td>.25&quot;</td>
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<td>3/8&quot;</td>
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<td>369575</td>
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<td>.31&quot;</td>
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<td>.25&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
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</tbody>
</table>

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Visit your Account Order History at huyett.com to download Free Material, Compliance, and RoHS/REACH Certifications along with:

- Order Status
- Expected Ship Date
- Order Tracking Info
- Your Favorites

* Some exclusions apply

### Common Parts

- GM General Motors® is a registered trademark of General Motors Corp., Detroit, MI.
- GM/CH General Motors®/CH is a registered trademark of General Motors Corp., Detroit, MI.
- Ford® Ford® is a registered trademark of Ford Motor Company.
- Case IH® Case IH® is a registered trademark of CNH America LLC., Racine, WI.

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The larger, stronger threads found on 1/8"-27 PTF fittings are suited for industrial uses, in agriculture and on construction equipment. The 1958 is equipped with a protective cap for additional contaminant protection.

### 1/8"-27 PTF Threads

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>1644-B</td>
<td>1/8&quot;-27</td>
<td>0.56&quot;</td>
<td>0.23&quot;</td>
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<td>0.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
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<tr>
<td>1610-BL</td>
<td>1/8&quot;-27</td>
<td>0.69&quot;</td>
<td>0.30&quot;</td>
<td>0.19&quot;</td>
<td>—</td>
<td>0.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
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<tr>
<td>1958</td>
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<td>0.97&quot;</td>
<td>0.25&quot;</td>
<td>0.15&quot;</td>
<td>—</td>
<td>0.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

### EASY OUT TOOLS

- **ALEMITE® # B315791**
  - 1/8"-27 NPTF
  - 7/16" HEX ANGLED FITTING SOCKET
  - 3/8" HEX STRAIGHT FITTING SOCKET

- **ALEMITE® # B315790**
  - 1/4"-28 SAE-LT
  - 5/16" HEX STRAIGHT FITTING SOCKET
  - 3/8" HEX ANGLED FITTING SOCKET

**Common Parts**
- Parts with this designation are in wide distribution.

**G.M.**
- General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**GM/CH**
- General Motor/CH

**F**
- Ford®

**IH**
- Case IH

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1/8"-27 PTF

Extended shanks are often necessary to ease maintenance of recessed greasing points. Grease fitting extensions (page 208) may also be used to extend grease fitting shanks.

**Table of Dimensions**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Thread Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
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<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
<td></td>
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<tr>
<td>1669-B</td>
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<td>1.75&quot;</td>
<td>1.27&quot;</td>
<td>.19&quot;</td>
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<td></td>
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<tr>
<td>369599</td>
<td>A369599</td>
<td>1/8&quot;-27 Straight</td>
<td>2.63&quot;</td>
<td>2.19&quot;</td>
<td>.19&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>
Angled grease fittings are often found on industrial machinery where maintenance in confined areas is a necessity. Common angled grease fittings featured will suit most applications. Custom sizes, angles and materials are available by request. Look for the red ball check when identifying standard Alemite® grease fittings.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
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<td>.91&quot;</td>
<td>.30&quot;</td>
<td>.19&quot;</td>
<td>.56&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1638-B</td>
<td>A1638</td>
<td>1/8&quot;-27</td>
<td>30°</td>
<td>2.09&quot;</td>
<td>1.25&quot;</td>
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<td>.54&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1688-B</td>
<td>A1688</td>
<td>1/8&quot;-27</td>
<td>45°</td>
<td>.89&quot;</td>
<td>.30&quot;</td>
<td>.19&quot;</td>
<td>.64&quot;</td>
<td>.39&quot;</td>
<td>.42&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

Common Parts
Parts with this designation are in wide distribution.

GM 271282
GM/CH 9411014

GM 271337
GM/CH 9411015

GM 271283
GM/CH 9411016
IH 60711

Exceeds 72 hr salt spray.
8,000 psi Max Pressure.

Technical Drawings are Approximate Actual Size

Monel® is a registered trademark of the Inco Alloys, International, Inc.
**1/8”-27 PTF**

All PTF or Dryseal threads can be threaded into NPT threaded holes, but this practice is not recommended. For further information on thread types, please see the Thread Guide on pages 6-9.

<table>
<thead>
<tr>
<th>Item #</th>
<th>A1612</th>
<th>A369608</th>
<th>A1623</th>
<th>A1649</th>
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<tr>
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<td>1/8”-27</td>
<td>65°</td>
<td>.84”</td>
<td>.30”</td>
</tr>
<tr>
<td><strong>369608</strong></td>
<td>1/8”-27</td>
<td>65°</td>
<td>.91”</td>
<td>.28”</td>
</tr>
<tr>
<td><strong>1623-B</strong></td>
<td>1/8”-27</td>
<td>65°</td>
<td>1.22”</td>
<td>.56”</td>
</tr>
<tr>
<td><strong>1649-B</strong></td>
<td>1/8”-27</td>
<td>65°</td>
<td>2.75”</td>
<td>2.25”</td>
</tr>
</tbody>
</table>

*Common Parts
Part with this designation are in wide distribution.*

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ALEMITE® Alemite® is a registered trademark of SKF Group Headquarters.

Monel® is a registered trademark of the Inco Alloys, International, Inc.
The dual nipple design of the 369574 provides multiple greasing points for "front and back" access. This dual access is important for applications like u-joints, where moving parts change grease fitting orientation. Both the 1618-B and 1620-B have female threads, which may be threaded onto a pipe or used as a nut for component assembly.

**ALEMITE® FITTINGS ARE EQUIPPED WITH RED BALL CHECKS FOR EASY IDENTIFICATION.**

### Table of Dimensions

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1613-B</td>
<td>A1613</td>
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<td>.30&quot;</td>
<td>.19&quot;</td>
<td>.73&quot;</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
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<tr>
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<td>1.81&quot;</td>
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<td>.19&quot;</td>
<td>.76&quot;</td>
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<td>.54&quot;</td>
<td>7/16&quot;</td>
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<tr>
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<td>A369574</td>
<td>1/8&quot;-27</td>
<td>70° (x2)</td>
<td>.84&quot;</td>
<td>.22&quot;</td>
<td>.19&quot;</td>
<td>1.16&quot;</td>
<td>.39&quot;</td>
<td>.58&quot;</td>
<td>1/2&quot;</td>
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<tr>
<td>1618-B</td>
<td>A1618</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>1.00&quot;</td>
<td>.31&quot;</td>
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<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>1/2&quot;</td>
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<tr>
<td>1620-B</td>
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<td>.28&quot;</td>
<td>.66&quot;</td>
<td>.39&quot;</td>
<td>.44&quot;</td>
<td>7/16&quot; sq.</td>
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</tbody>
</table>

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Alemite® is a registered trademark of SKF Group Headquarters.

Monel® is a registered trademark of the Inco Alloys International, Inc.
1/4"-18 PTF fittings, which have 18 threads per inch, are used in large bearings on heavy machinery such as mining equipment and trucks. They are well suited for cold weather environments and for use with heavy lubricants.

### 1627-B
- **Straight**
- 1/4"-18 PTF Spl. Extra Short
- Standard Shank

### 1629-B
- 67.5° Angle
- 1/4"-18 PTF Spl. Extra Short
- Standard Shank

<table>
<thead>
<tr>
<th>Item #</th>
<th>A</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>1627-B</td>
<td>✶</td>
<td>1/4&quot;-18</td>
<td>Straight</td>
<td>.88&quot;</td>
<td>.42&quot;</td>
<td>.19&quot;</td>
<td>—</td>
<td>.52&quot;</td>
<td>—</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>1629-B</td>
<td>✶</td>
<td>1/4&quot;-18</td>
<td>67.5°</td>
<td>.97&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>.86&quot;</td>
<td>.52&quot;</td>
<td>.58&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

### Grease Fitting Cleaners

**ALEMITE® # 339841**
- **Heavy Duty Cleaner**

**ALEMITE® # 340004**
- **Pocket Sized Cleaner**

**ORDER A8:**
- A339841
- A340004

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*Monel®* - Monel® is a registered trademark of the Inco Alloys, International, Inc.

*Exceeds 72 hr salt spray*.

*8,000 psi Max pressure*.
Unlike tapered thread types such as PTF, parallel threaded fittings are not self-sealing, but do thread into standard screw-thread housings. 1/4"-28 UNF fittings are designed to thread into a 1/4"-28 UNF-3B hole. For best results, the use of thread sealant is recommended.

**ALEMITE**

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.25&quot;</td>
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<td>Straight</td>
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<td>.13&quot;</td>
<td>.12&quot;</td>
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<td>333330</td>
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<td>.19&quot;</td>
<td>.12&quot;</td>
<td>—</td>
<td>.25&quot;</td>
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<td>1770-B1</td>
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<td>45° Angle</td>
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<td>.60&quot;</td>
<td>.25&quot;</td>
<td>.41&quot;</td>
<td>3/8&quot;</td>
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</table>

**DESIGN FEATURE**

Parallel threads are not designed to provide the leak-proof seal of PTF threads and may leak past the threads under certain conditions. Thread sealant is recommended for applications where leakage is unacceptable.

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PARALLEL

5/16" thread sizes allow for these fittings to be used in heavier duty applications than smaller 1/4" - 28 threads. The fine threads of the 6-40 and 10-32 UNF fittings offer added thread engagement in thin materials, and are designed for light-duty applications where conservation of space is a primary concern.

### Technical Drawings are Approximate Actual Size

**1711-B**

| Straight  
| 5/16" -24 UNF  
| Standard Shank |

**1631-B**

| Straight  
| 5/16" -32 UNEF  
| Standard Shank |

**1648-B1**

| 65° Angle  
| 5/16" -32 UNEF  
| Standard Shank |

**3018**

| Straight  
| 6-40 UNF  
| Standard Shank |

**369616**

| Straight  
| 10-32 UNF  
| Short Shank |

**3016**

| Straight  
| 10-32 UNF  
| Standard Shank |

### Technical Specifications

| ALEMITE Item # | G.L. HUYETT Order # | Thread  
|---------------|---------------------|--------
| 1711-B      | A1711               | 5/16" -24     |
| 1631-B      | A1631               | 5/16" -32     |
| 1648-B1     | A1648               | 5/16" -32     |
| 3018        | A3018               | 6-40         |
| 369616      | A369616             | 10-32        |
| 3016        | A3016               | 10-32        |

### Thread Specifications

<table>
<thead>
<tr>
<th></th>
<th>Overall Length (E)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
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<td>1/4&quot;</td>
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<td>3016</td>
<td>.50&quot;</td>
<td>.13&quot;</td>
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<td>—</td>
<td>.18&quot;</td>
<td>—</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>
THREAD FORMING

Thread forming threads are made out of case hardened steel. These fittings are designed to be installed by being driven or threaded into an untapped hole, thus eliminating the costly process of tapping. When replacement is needed, standard threaded fittings may be threaded into the formed hole.

**3038-B**
- Straight
- 1/4"-28 Thread Forming
- Standard Shank

**3053-B**
- 45° Angle
- 1/4"-28 Thread Forming
- Standard Shank

**3054-B**
- 90° Angle
- 1/4"-28 Thread Forming
- Standard Shank

**369582**
- Straight
- 1/4"-28 Thread Forming
- Short Shank

**369584**
- Straight
- 1/4"-28 Thread Forming
- Long Shank

---

**Table: ALEMI TE®**

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
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<td>1/4&quot;-28</td>
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<td>.58&quot;</td>
<td>.19&quot;</td>
<td>.14&quot;</td>
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<td>—</td>
<td>5/16&quot;</td>
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<tr>
<td>3053-B</td>
<td>A3053</td>
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<td>3054-B</td>
<td>A3054</td>
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<td>90°</td>
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<td>.18&quot;</td>
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<td>.47&quot;</td>
<td>3/8&quot;</td>
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<td>369582</td>
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<td>Straight</td>
<td>.51&quot;</td>
<td>.15&quot;</td>
<td>.08&quot;</td>
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<td>—</td>
<td>9/32&quot;</td>
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<tr>
<td>369584</td>
<td>A369584</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.97&quot;</td>
<td>.63&quot;</td>
<td>.21&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

**Note:** 1/4"-28 approximate hole size 0.230-0.235"
# Thread Forming

Thread forming fittings, also known as spin-drive, are ideal for high volume assembly line applications. For easy identification, Alemite® angled thread forming grease fittings have zinc clear heads.

### Technical Drawings are Approximate Actual Size

**GM 273321**  
GM/CH 941/022

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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</thead>
<tbody>
<tr>
<td>1720-B</td>
<td>A1720</td>
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<td>.24*</td>
<td>.20*</td>
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<td>—</td>
<td>7/16*</td>
</tr>
<tr>
<td>1724-B</td>
<td>A1724</td>
<td>1/8&quot;-27</td>
<td>45°</td>
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<td>.20*</td>
<td>.14*</td>
<td>.64*</td>
<td>.42*</td>
<td>7/16*</td>
</tr>
<tr>
<td>1723-B</td>
<td>A1723</td>
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<td>90°</td>
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<td>.20*</td>
<td>.14*</td>
<td>.73*</td>
<td>.51*</td>
<td>7/16*</td>
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<tr>
<td>369579</td>
<td>A369579</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.68*</td>
<td>.31*</td>
<td>.21*</td>
<td>—</td>
<td>—</td>
<td>7/16*</td>
</tr>
</tbody>
</table>

**Exceeds 72 hr salt spray.**  
**8,000 psi Max pressure.**

**Common Parts**  
Parts with this designation are in wide distribution.

**HOW TO ID**

Alemite® fittings are equipped with red ball checks for easy identification.

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DRIVE TYPE

Drive type fittings, like thread forming fittings, have an advantage of not needing a threaded hole, therefore decreasing the cost of installation. These fittings are easily identified by their serrated shanks. Drive type fittings are driven into a drilled hole with a drive tool, shown below.

### Specifications

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
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<td>5/16&quot;</td>
<td>No</td>
</tr>
<tr>
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<td>A1736</td>
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<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
<tr>
<td>3009</td>
<td>A3009</td>
<td>³/₁₆&quot; Drill</td>
<td>Straight</td>
<td>.39&quot;</td>
<td>.09&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
<tr>
<td>3005</td>
<td>A3005</td>
<td>³/₁₆&quot; Drill</td>
<td>Straight</td>
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<td>.17&quot;</td>
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<td>—</td>
<td>5/16&quot;</td>
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<td>—</td>
<td>9/32&quot;</td>
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<td>369591</td>
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<td>Straight</td>
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<td>.13&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
</tbody>
</table>

### Drive Tools

**ALEMITE® # 5253**

**ORDER A8:** A5253

**ALEMITE® # 5254-1**

**ORDER A8:** A5254-1

For more information, please see pg. 30-31
## DRIVE TYPE

Angled drive type fittings have a hex shoulder to assist in orientation to the greasing point. An angled drive tool is required for proper installation. Short shanks are available for installation in thin materials such as sheet metal.

### Technical Drawings are Approximate Actual Size

#### DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY. THE EXACT DRILL SIZE FOR DRIVE TYPE FITTINGS MAY VARY WITH YOUR APPLICATION AND MATERIAL TESTING IS RECOMMENDED TO ENSURE RELIABILITY IN THE FIELD.

### SPECIAL PARTS

**LOOKING FOR SOMETHING SPECIAL? CALL OR EMAIL THE G.L. HUYETT SALES TEAM & WE WILL FIND IT FOR YOU!**

### COMMON PARTS

- **GM**
- **Ford®**
- **Case IH®**

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---

### Table: Angled Drive Type Fittings

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check</th>
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<tbody>
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<td>1728-B</td>
<td>A1728</td>
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<td>—</td>
<td>5/16&quot;</td>
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<tr>
<td>1992-B1</td>
<td>A1992</td>
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<td>45°</td>
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<td>.22&quot;</td>
<td>.60&quot;</td>
<td>.41&quot;</td>
<td>3/8&quot;</td>
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<tr>
<td>1646-B1</td>
<td>A1646</td>
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<td>65°</td>
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<td>.67&quot;</td>
<td>.48&quot;</td>
<td>3/8&quot;</td>
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</tr>
<tr>
<td>1633</td>
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<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
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<tr>
<td>369580</td>
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<td>≈ 3/16&quot; Drill</td>
<td>45°</td>
<td>.69&quot;</td>
<td>.09&quot;</td>
<td>.60&quot;</td>
<td>.41&quot;</td>
<td>3/8&quot;</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Drive type fittings with longer shanks provide increased grip in heavy-duty applications. The 1952-A has a short shank for installation into sheet metal or other thin-walled materials. Ideally, technicians should orient the angled fittings prior to installation.

### Technical Drawings

**Drive Type**

- **1952-A**
  - Straight Drive Type
  - 1/4" Drill Size
  - Short Shank

- **143-B**
  - Straight Drive Type
  - 1/4" Drill Size
  - Long Shank

- **144-B1**
  - 65° Angle Drive Type
  - 1/4" Drill Size
  - Long Shank

- **369577**
  - Straight Drive Type
  - 1/4" Drill Size
  - Long Shank

- **1608-B**
  - Straight Drive Type
  - 5/16" Drill Size
  - Standard Shank

- **1630-B1**
  - 65° Angle Drive Type
  - 5/16" Drill Size
  - Standard Shank

- **1666**
  - Straight Drive Type
  - 3/8" Drill Size
  - Standard Shank

### Dimensions Table

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<th>ALEMITE Item #</th>
<th>GM/L HUYETT Order #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check</th>
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<td>.13&quot;</td>
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<td>—</td>
<td>11/32&quot;</td>
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<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>Yes</td>
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<td>A1744</td>
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<td>.67&quot;</td>
<td>.48&quot;</td>
<td>3/8&quot; Hex</td>
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<tr>
<td>369577</td>
<td>A369577</td>
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<td>Straight</td>
<td>.55&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>11/32&quot;</td>
<td>Yes</td>
</tr>
<tr>
<td>1608-B</td>
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<td>—</td>
<td>3/8&quot; Hex</td>
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<td>1630-B1</td>
<td>A1630</td>
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<td>.22&quot;</td>
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<td>.48&quot;</td>
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<td>—</td>
<td>—</td>
<td>7/16&quot;</td>
<td>No</td>
</tr>
</tbody>
</table>
PIN TYPE

The pin type grease fitting is one of the earliest grease fitting designs ever manufactured. These fittings were a common sight on vehicles in the 1910’s and 1920’s and are still used today in some applications. Servicing is performed by hooking a special coupler, found on page 233, around both pins to create a leak-proof seal.

A336
Straight Pin Type
1/8"-27 PTF Spl. Short
Standard Shank

M336
Straight Pin Type
1/8"-27 PTF Spl. Short
Standard Shank

A359
Straight Pin Type
1/4"-18 NPTF
Standard Shank

RIVET TYPE

Rivet type fittings are designed for thin materials and special applications, such as on kingpins, where a conventional threaded or drive type fitting cannot be used or where a shank protruding into a component is unacceptable. Rivet type fittings are driven into place from behind.

1675-B
Straight Rivet Type
≈ 5/16" Drill Size

For more information, please see pg. 46

Installation
Rivet fittings are installed from the backside, providing a near-flush mount which is critical in applications where space is limited.
Flush type fittings are for applications where a protruding greasing nipple may be impractical. The compact design of the flush type fitting allows for use on shafts, pulleys and other rotating assemblies. Flush type grease fittings are serviced using a specially designed flush type coupler, found on page 233.

### Technical Drawings are Approximate Actual Size

**Common Parts**

Parts with this designation are in wide distribution.

**GM**

General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**GM/CH**

General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**F**

Ford® is a registered trademark of Ford Motor Company.

**IH**

Case IH® is a registered trademark of CNH America LLC, Racine, WI.

### Flush Type

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
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<th>Thread Diameter</th>
<th>Drill Diameter</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex / Shoulder Diameter (H)</th>
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</thead>
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<td>10-32</td>
<td>.38&quot;</td>
<td>.23&quot;</td>
<td>.19&quot;</td>
<td>.18&quot;</td>
<td>1/4&quot; Slotted</td>
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<tr>
<td>1851</td>
<td>A1851</td>
<td>1/4&quot;-28</td>
<td>1/4&quot;-28</td>
<td>.41&quot;</td>
<td>.30&quot;</td>
<td>.19&quot;</td>
<td>.25&quot;</td>
<td>5/16&quot;</td>
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<tr>
<td>369604</td>
<td>A369604</td>
<td>—</td>
<td>~ 1/4&quot; Drill</td>
<td>.34&quot;</td>
<td>.33&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
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<td>A3036</td>
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<td>.31&quot;</td>
<td>—</td>
<td>—</td>
<td>1/4&quot;</td>
</tr>
</tbody>
</table>

**Flush Type Designations**

- **326314** Straight Flush Type 10-32 UNF
- **1851** Straight Flush Type 1/4"-28 UNF
- **369604** Straight Flush Drive Type ~ 1/4" Drill Size
- **3036** Straight Flush Drive Type ~ 3/16" Drill Size

**Slotted**

For more information, please see pg. 38

**In light duty applications, a standard oil can may be used.**

Zoom View
## FLUSH TYPE

The addition of countersunk holes allows for some flush type fittings, such as the 1452, to be installed perfectly flush with their mating surface. Oil cans are a popular tool for servicing small diameter flush type fittings.

### 1885
**Straight Flush Drive Type**

- 1/4" Drill Size

### 1814
**Straight Flush Drive Type**

- 5/16" Drill Size

### 1815
**Straight Flush Type**

- 1/8"-27 NPTF

### 1452
**Straight Flush Type**

- 1/8"-27 NPTF

### Z741-A
**Straight Flush Type**

- 1/4"-18 NPTF

---

**PLEASE NOTE**

Drill sizes provided are approximations only. The exact drill size for drive type fittings may vary with your application and material. Testing is recommended to ensure reliability in the field. Drive type fittings are not recommended for high-pressure applications.

---

**DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY.**

The exact drill size for drive type fittings may vary with your application and material. Testing is recommended to ensure reliability in the field. Drive type fittings are not recommended for high-pressure applications.

---

**Common Parts**

- Ford®: Ford is a registered trademark of Ford Motor Company.
- General Motors®: General Motors® is a registered trademark of General Motors Corp., Detroit, MI.
- General Motors®/CH: General Motors®/CH is a registered trademark of General Motors Corp., Detroit, MI.
- Case IH®: Case IH® is a registered trademark of CNH America LLC., Racine, WI.

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REVISED 03-19
**BUTTON HEAD - STANDARD**

The large, flat head on button head fittings helps to minimize damage when used in harsh applications such as on heavy machinery and construction equipment. The plunger check design performs well under high back pressures and helps to reduce contamination and leakage.

### Common Parts

Parts with this designation are in wide distribution.

**Alemite®** is a registered trademark of SKF Group Headquarters.

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---

### Design Feature

Alemite® Button Head fittings are designed with a plunger check for resistance against high back pressures and to allow large volumes of lubrication to flow into the assembly.

---

### Technical Drawings are Approximate Actual Size

---

### A1184

<table>
<thead>
<tr>
<th>Button Head- Standard</th>
<th>1/8&quot;-27 PTF Spl. Short</th>
<th>Plunger Check</th>
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<td><strong>A1184</strong></td>
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<td>Overall Length (A)</td>
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<td>Shank Length (B)</td>
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<td></td>
</tr>
<tr>
<td>Min. Thread Length (C)</td>
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<td></td>
</tr>
<tr>
<td>Thread Diameter (F)</td>
<td>.39&quot;</td>
<td></td>
</tr>
<tr>
<td>Hex (H)</td>
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<td></td>
</tr>
<tr>
<td>Valve System</td>
<td>Plunger Check</td>
<td></td>
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</tbody>
</table>

### C69

<table>
<thead>
<tr>
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<th>1/8&quot;-27 NPTF</th>
<th>Plunger Check</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Shank Length (B)</td>
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<td></td>
</tr>
<tr>
<td>Min. Thread Length (C)</td>
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<td></td>
</tr>
<tr>
<td>Thread Diameter (F)</td>
<td>.39&quot;</td>
<td></td>
</tr>
<tr>
<td>Hex (H)</td>
<td>5/8&quot;</td>
<td></td>
</tr>
<tr>
<td>Valve System</td>
<td>Plunger Check</td>
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</tr>
</tbody>
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### A1186

<table>
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<tr>
<th>Button Head- Standard</th>
<th>1/4&quot;-18 NPTF</th>
<th>Plunger Check</th>
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<tr>
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<tr>
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### A1188

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### A1190

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<td>Hex (H)</td>
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<td>Plunger Check</td>
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<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
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<td>AC69</td>
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<td>5/8&quot;</td>
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<td>.52&quot;</td>
<td>5/8&quot;</td>
<td>Plunger Check</td>
</tr>
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<td>.41&quot;</td>
<td>.64&quot;</td>
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<tr>
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<td>A1190</td>
<td>1/2&quot;-14</td>
<td>1.06&quot;</td>
<td>.55&quot;</td>
<td>.53&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Plunger Check</td>
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</table>

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For more information, please see pg. 38
Giant button head fittings are intended for extremely rugged environments, such as on excavation and mining equipment. These fittings accept large volumes of heavy weight lubricants at high pressures.

**1822-A1**
Button Head- Giant
3/8"-18 NPTF
Plunger Check

**1823-1**
Button Head- Giant
1/4"-18 NPTF
Plunger Check

**1820-1**
Button Head- Giant
1/2"-14 NPTF
Plunger Check

### Technical Specifications

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
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<td>.40&quot;</td>
<td>.52&quot;</td>
<td>7/8&quot;</td>
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<tr>
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<td>A1820</td>
<td>1/2&quot;-14</td>
<td>1.06&quot;</td>
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<td>.44&quot;</td>
<td>.82&quot;</td>
<td>7/8&quot;</td>
<td>Plunger Check</td>
</tr>
</tbody>
</table>

**For More Information, please see pg. 38**

**Customers Also Bought...**

**Button Head Couplers**

Our extensive line of Alemite® button head couplers is available on page 232.
PRESSURE RELIEF

Top vent pressure relief valves release excessive pressure which may accumulate during operation of a bearing housing or gearbox. They are a common sight on gearbox housings and bearings. The sample diagram is representative of all pressure relief valves. The valve remains closed below the specified pressure range listed in the table below.

### DIAGRAM

**Relief - Top Vent**

1/8"-27 PTF Spl. Short

---

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Drill Diameter</th>
<th>Pressure</th>
<th>GM® Cross Reference</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>317400</td>
<td>A317400</td>
<td>1/8&quot;-27</td>
<td></td>
<td>0.25-1 psi</td>
<td>GM 455322</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
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<tr>
<td>47200</td>
<td>A47200</td>
<td>1/8&quot;-27</td>
<td></td>
<td>1-5 psi</td>
<td>GM 178779</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
</tr>
<tr>
<td>47640</td>
<td>A47640</td>
<td>1/8&quot;-27</td>
<td></td>
<td>7.5-15 psi</td>
<td>GM 431715</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
</tr>
<tr>
<td>323060</td>
<td>A323060</td>
<td>1/8&quot;-27</td>
<td></td>
<td>15-25 psi</td>
<td>GM 443589</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
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<tr>
<td>47100</td>
<td>A47100</td>
<td>1/8&quot;-27</td>
<td></td>
<td>45-80 psi</td>
<td>GM 106671</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
</tr>
<tr>
<td>369593</td>
<td>A369593</td>
<td>1/8&quot;-27</td>
<td></td>
<td>100-200 psi</td>
<td>—</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
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<tr>
<td>50500</td>
<td>A50500</td>
<td>1/8&quot;-27</td>
<td></td>
<td>400-650 psi</td>
<td>GM 443590</td>
<td>.50*</td>
<td>.30*</td>
<td>.20*</td>
<td>.39*</td>
<td>7/16*</td>
</tr>
</tbody>
</table>

---

PRESSURE RELIEF

Top vent drive type fittings have the advantage of not needing a threaded hole, decreasing the cost of installation. Pressure relief vents open within the pressure ratings listed in the item description.

### 321839

**Relief - Top Vent Drive Type**

- ≈ 3/8" Drill Size
- Opening Range 1-5 psi

---

### 338382

**Relief - Leak Proof**

1/8"-27 PTF Spl. Short

- Opening Range 80-140 psi

---

**Diagrams:**

- How they work
- AS INTERNAL PRESSURES RISE, THE PLUNGER OPENS, ALLOWING PRESSURE TO VENT.

**Technical Drawings are Approximate Actual Size**

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VENT

Vents, like relief valves, are designed to protect bearing seals from damage by allowing excessive pressure to escape at a specified pressure range. Vent fittings are a common sight on differentials, transfer cases, transmissions, gear boxes and other similar applications. All vents come equipped with a cap that reduces external contaminants from entering the housing.

### DIAGRAM 1
Vent
1/8"-27 PTF SAE Short

### DIAGRAM 2
Vent
1/8"-27 PTF Spl. Short

### DIAGRAM 3
Vent
1/8"-27 PTF SAE Short

### DIAGRAM 4
Vent
1/8"-27 PTF SAE Short

### DIAGRAM 5
Vent - Drive Type
\( \approx 0.368\)^\* Drill Size

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Diagram #</th>
<th>Thread</th>
<th>Drill Diameter</th>
<th>Opening Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<tr>
<td>304810</td>
<td>A304810</td>
<td>Dia. 1</td>
<td>1/8&quot;-27</td>
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<td>0.04-0.11 psi</td>
<td>1.00*</td>
<td>.26*</td>
<td>.19*</td>
<td>.39*</td>
<td>7/16&quot;</td>
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<td>300805</td>
<td>A300805</td>
<td>Dia. 2</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>0.04-0.11 psi</td>
<td>1.00*</td>
<td>.27*</td>
<td>.19*</td>
<td>.39*</td>
<td>7/16&quot;</td>
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<td>131000-T</td>
<td>A131000</td>
<td>Dia. 3</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>0.43 psi max</td>
<td>1.00*</td>
<td>.26*</td>
<td>.19*</td>
<td>.39*</td>
<td>7/16&quot;</td>
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<tr>
<td>327240</td>
<td>A327240</td>
<td>Dia. 4</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>1-1.5 psi</td>
<td>1.00*</td>
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<td>.19*</td>
<td>.39*</td>
<td>7/16&quot;</td>
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<td>330766</td>
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<td>Dia. 3</td>
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<td>2.5-4 psi</td>
<td>1.00*</td>
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<td>.19*</td>
<td>.39*</td>
<td>7/16&quot;</td>
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<td>Dia. 5</td>
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<td>( \approx 0.368)^* Drill</td>
<td>0.22-0.43 psi</td>
<td>1.00*</td>
<td>.28*</td>
<td>—</td>
<td>—</td>
<td>—</td>
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</tbody>
</table>

Please Note

Drill sizes provided are approximations only. The exact drill size for drive type fittings may vary with your application and material. Testing is recommended to ensure reliability in the field. Drive type fittings are not recommended for high-pressure applications.

### Common Parts
Parts with this designation are in wide distribution.

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Large breathers are ideal for use with heavy equipment such as road pavers, tractors and excavation machines. They allow large volumes of air to escape while two internal baffles help prevent fluid from spilling out. The deep seat on 333075 provides an additional level of leakage protection. The 369583 has a zinc nickel plating which provides an additional level of corrosion protection. Custom plating, sizes and materials are available by request.

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<td>.19&quot;</td>
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<td>7/16&quot;</td>
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<td>.64&quot;</td>
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<td>2.5&quot;</td>
<td>.36&quot;</td>
<td>.64&quot;</td>
<td>3/4&quot;</td>
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</table>

Breathers are commonly used in various applications such as agricultural, excavation and industrial machinery.
BREATHER

Breathers differ from vents in that they allow unrestricted air flow in and out of a component. Breathers allow a component to "inhale" and "exhale." The special cap prevents contaminants from entering the component.

**369518**
Breather - Drive Type
Approximately 23/64" Drill Size

**369528**
Breather - Drive Type
Approximately 1/2" Drill Size

**DESIGN FEATURE**

"BREATHING IN" "BREATHING OUT"

Breathers do not restrict airflow, keeping the internal pressure at a safe operating level.

**TABLE**

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. Huyett Order #</th>
<th>Drill Diameter</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
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<td>~ 23/64&quot; Drill</td>
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<tr>
<td>369528</td>
<td>A369528</td>
<td>~ 1/2&quot; Drill</td>
<td>1.05&quot;</td>
<td>.33&quot;</td>
</tr>
</tbody>
</table>
LEAK PROOF

The leak proof fittings listed below, 1650, 1692, & 1693, contain an internal Buna-N® rubber ball check instead of a steel surface ball check. This special ball check guards against lubricant leakage up to 3,000 psi, which is crucial in applications like those found in the textile industry. The 1634 has a steel ball check and brass insert that seals grease. The 1634-B has an additional debris excluding surface ball check.

### 1650
**Straight Leak Proof**
1/8"-27 PTF SAE Short
3,000 psi

### 1692
30° Angle Leak Proof
1/8"-27 NPTF
3,000 psi

### 1693
90° Angle Leak Proof
1/8"-27 NPTF
3,000 psi

### 1634
Straight Leak Proof
1/8"-27 PTF SAE Short
10,000 psi

### 1634-B
Straight Leak Proof
1/8"-27 NPTF
10,000 psi

---

**ALEMITE Item #** | **G.L. HUYETT Order #** | **Thread** | **Angle (E)** | **Max Back Pressure** | **Overall Length (A)** | **Shank Length (B)** | **Min. Thread Length (C)** | **Overall Width (D)** | **Thread Diameter (F)** | **Swing Clearance (G)** | **Hex (H)**
---|---|---|---|---|---|---|---|---|---|---|---
1650 ✶ | A1650 | 1/8"-27 | Straight | 3,000 psi | .91" | .39" | .22" | — | .39" | — | 7/16"
1692 | A1692 | 1/8"-27 | 30° | 3,000 psi | 1.22" | .39" | .27" | .55" | .39" | .33" | 7/16"
1693 | A1693 | 1/8"-27 | 90° | 3,000 psi | .97" | .39" | .27" | .74" | .39" | .50" | 7/16"
1634 | A1634 | 1/8"-27 | Straight | 10,000 psi | .86" | .36" | .22" | — | .39" | — | 7/16"
1634-B | A1634B | 1/8"-27 | Straight | 10,000 psi | 1.00" | .52" | .22" | — | .39" | — | 7/16"

---

Common Parts
Parts with this designation are in wide distribution.

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For more information, please see pg. 58-59

Technical Drawings are approximate actual size.
LEAK PROOF

The 369533 is a drive type fitting, and possesses a 3,000 psi leak-proof pressure rating. Please test drill a hole to verify fit and function.

369533

Straight Leak Proof - Drive Type
≈ 7/16" Drill Size
3,000 psi

Hydraulic shut off fittings are designed to stop the flow of grease within a specified pressure range. This prevents overpressurization and damage to bearing seals.

1940-B

60° Angle Hydraulic Shut Off
1/8".-27 PTF Spl. Short
5-20 psi

1940-B

60° Angle Hydraulic Shut Off
1/8".-27 PTF Spl. Short
5-20 psi

GM 456653

1795-B

60° Angle Hydraulic Shut Off
1/8".-27 PTF Spl. Short
60-100 psi

1795-B

GM 273325

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STAINLESS STEEL

Stainless steel fittings offer an additional level of corrosion resistance and are suited for food processing equipment, marine applications and sewage disposal systems. The stainless steel bodies are made from AISI 303 stainless steel, the springs are composed of AISI 302 stainless spring wire and the balls are 440 grade stainless.

<table>
<thead>
<tr>
<th>1966-S</th>
<th>1968-S</th>
<th>1969-S</th>
</tr>
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<tbody>
<tr>
<td><strong>Straight - Stainless</strong></td>
<td><strong>45° Angle - Stainless</strong></td>
<td><strong>90° Angle - Stainless</strong></td>
</tr>
<tr>
<td>1/4&quot;-28 Taper Thread</td>
<td>1/4&quot;-28 Taper Thread</td>
<td>1/4&quot;-28 Taper Thread</td>
</tr>
<tr>
<td>Standard Shank</td>
<td>Standard Shank</td>
<td>Standard Shank</td>
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**ALEMITE Item #** | **G.L. HUYETT Order #** | **Thread** | **Angle (E)** | **Overall Length (A)** | **Shank Length (B)** | **Min. Thread Length (C)** | **Overall Width (D)** | **Thread Diameter (F)** | **Swing Clearance (G)** | **Hex (H)** |
<table>
<thead>
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<td>.19&quot;</td>
<td>.11&quot;</td>
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<td>.25&quot;</td>
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<td>A1637S</td>
<td>1/4&quot;-28</td>
<td>45°</td>
<td>.81&quot;</td>
<td>.20&quot;</td>
<td>.11&quot;</td>
<td>.59&quot;</td>
<td>.25&quot;</td>
<td>.40&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>1969-S</td>
<td>A1911S</td>
<td>1/4&quot;-28</td>
<td>90°</td>
<td>.75&quot;</td>
<td>.20&quot;</td>
<td>.11&quot;</td>
<td>.68&quot;</td>
<td>.25&quot;</td>
<td>.49&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

**STAINLESS STEEL**

**1728-S**

Straight Drive Type - Stainless

≈ 3/16" Drill Size

Long Shank

**ALEMITE Item #** | **G.L. HUYETT Order #** | **Drill Diameter** | **Angle (E)** | **Overall Length (A)** | **Shank Length (B)** | **Min. Thread Length (C)** | **Overall Width (D)** | **Thread Diameter (F)** | **Swing Clearance (G)** | **Hex (H)** |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1728-S</td>
<td>A1728S</td>
<td>≈ 3/16&quot; Drill</td>
<td>Straight</td>
<td>.52&quot;</td>
<td>.25&quot;</td>
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<td>—</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

**INDUSTRY USES**

Stainless steel fittings are well suited for corrosive environments such as marine, food processing, and industrial applications.

**Common Parts**

Parts with this designation are in wide distribution.

**General Motors®** General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**General Motors®/CH** General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

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REVISED 03-19
### Alemite Stainless Steel Fittings

303 stainless steel fitting bodies perform well under extreme temperatures ranging from nearly 900°F (480°C) down to sub-zero. Most Alemite® stainless steel fittings have two identification notches on the hex to distinguish them from Monel® fittings.

#### Technical Drawings

- **1961-S**
  - Straight - Stainless
  - 1/8"-27 PTF Spl. Extra Short
  - Standard Shank

- **1921-S**
  - 30° Angle - Stainless
  - 1/8"-27 PTF Spl. Short
  - Standard Shank

- **1922-S**
  - 67.5° Angle - Stainless
  - 1/8"-27 PTF Spl. Short
  - Standard Shank

- **1923-S**
  - 90° Angle - Stainless
  - 1/8"-27 PTF Spl. Short
  - Standard Shank

#### Identification

Alemite® Stainless Steel Fittings have two identification notches on the hex.

### Dimensions

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>1961-S</td>
<td>A1961S</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>.31&quot;</td>
<td>.16&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1921-S</td>
<td>A1611S</td>
<td>1/8&quot;-27</td>
<td>30°</td>
<td>1.25&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>.33&quot;</td>
<td>7/16&quot;</td>
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<td>1922-S</td>
<td>A1612S</td>
<td>1/8&quot;-27</td>
<td>67.5°</td>
<td>.95&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>.50&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>1923-S</td>
<td>A1613S</td>
<td>1/8&quot;-27</td>
<td>90°</td>
<td>.88&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
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</tbody>
</table>

*Common Parts:
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- GM/CH: General Motors®/CH is a registered trademark of General Motors Corp., Detroit, MI.
- F: Ford® is a registered trademark of Ford Motor Company.
- Case IH®: Case IH® is a registered trademark of CNH America LLC., Racine, WI.*

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Alemite’s® Monel® fittings are designed to withstand the harshest environments and are often found in industrial, marine and chemical processing applications. A single notch is placed on the hex for identification due to the finish resemblance to stainless steel.

### MONEL® 1/4"-28 SAE-LT

#### MONEL® Straight - Monel®
- **1/4"-28 Taper Thread**
- **Standard Shank**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
<td>1966-B</td>
<td>A1641M</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.53&quot;</td>
<td>.19&quot;</td>
<td>.11&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>1969-B</td>
<td>A1911M</td>
<td>1/4&quot;-28</td>
<td>90°</td>
<td>.75&quot;</td>
<td>.20&quot;</td>
<td>.11&quot;</td>
<td>.68&quot;</td>
<td>.25&quot;</td>
<td>.49&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

#### MONEL® Button Head
- **1/8"-27 PTF Spl. Short**
- **Plunger Check**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>M1184</td>
<td>A1184M</td>
<td>1/8&quot;-27</td>
<td>—</td>
<td>.75&quot;</td>
<td>.34&quot;</td>
<td>.22&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>5/8&quot;</td>
</tr>
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</table>

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**REVISED 03-19**
Monel® is tolerant of extreme temperatures ranging from sub-zero to nearly 900°F (480°C). Alemite’s® Monel® fittings provide an additional level of corrosion resistance over stainless steel.

### Technical Drawings are Approximate Actual Size

#### ALEMITE® MONEL® FITTINGS 
HAVE ONE IDENTIFICATION NOTCH ON THE HEX.

#### Alemite® Monel®

- **Identification**: Have one identification notch on the hex.

#### Available in Stainless Steel

- Monel® is tolerant of extreme temperatures ranging from sub-zero to nearly 900°F (480°C). Alemite's® Monel® fittings provide an additional level of corrosion resistance over stainless steel.

### Monel® Applications

- **Monel® is**
  - Tolerant of extreme temperatures ranging from sub-zero to nearly 900°F (480°C).
  - Provides additional level of corrosion resistance over stainless steel.

### Technical Specifications

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
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<td>A1962M</td>
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<td>.63&quot;</td>
<td>.28&quot;</td>
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<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1961-B</td>
<td>A1961M</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>.31&quot;</td>
<td>.16&quot;</td>
<td>—</td>
<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1921-B</td>
<td>A1611M</td>
<td>1/8&quot;-27</td>
<td>30°</td>
<td>1.25&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>.55&quot;</td>
<td>.39&quot;</td>
<td>.33&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1922-B</td>
<td>A1612M</td>
<td>1/8&quot;-27</td>
<td>67.5°</td>
<td>.95&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>.72&quot;</td>
<td>.39&quot;</td>
<td>.50&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>1923-B</td>
<td>A1613M</td>
<td>1/8&quot;-27</td>
<td>90°</td>
<td>.88&quot;</td>
<td>.34&quot;</td>
<td>.19&quot;</td>
<td>.73&quot;</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

**Common Parts**

- Fits with this designation are in wide distribution.
- Monel® is a registered trademark of the Inco Alloys, International, Inc.
- Alemite® is a registered trademark of SKF Group Headquarters.

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- General Motors®/CH

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**Sizes**

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**REVISED 03-19**

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**M6 & M8 & M10**

Alemite® offers grease fittings in popular, standard metric sizes. All metric fittings shown have tapered threads. Custom sizes are available upon request.

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**Case IH®**

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---

#### Technical Drawings are Approximate Actual Size

---

### Alemite® offers grease fittings in popular, standard metric sizes. All metric fittings shown have tapered threads. Custom sizes are available upon request.

#### 2106

- **Straight**
- **M6 x 1.0 Tapered Thread**
- **Long Shank**

#### 2107

- **45° Angle**
- **M6 x 1.0 Tapered Thread**
- **Standard Shank**

#### 2108

- **90° Angle**
- **M6 x 1.0 Tapered Thread**
- **Standard Shank**

#### 2103

- **Straight**
- **M8 x 1.0 Tapered Thread**
- **Long Shank**

#### 2105

- **90° Angle**
- **M8 x 1.0 Tapered Thread**
- **Standard Shank**

#### 2109

- **Straight**
- **M10 x 1.0 Tapered Thread**
- **Standard Shank**

---

#### ALEMITE

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>2106 A2106</td>
<td>M6 x 1.0</td>
<td>Straight</td>
<td>15.0 mm</td>
<td>6.5 mm</td>
<td>4.0 mm</td>
<td>—</td>
<td>6.0 mm</td>
<td>—</td>
<td>7.0 mm</td>
<td></td>
</tr>
<tr>
<td>2107 A2107</td>
<td>M6 x 1.0</td>
<td>45°</td>
<td>20.6 mm</td>
<td>5.5 mm</td>
<td>4.0 mm</td>
<td>15.0 mm</td>
<td>6.0 mm</td>
<td>10.0 mm</td>
<td>10.0 mm</td>
<td></td>
</tr>
<tr>
<td>2108 A2108</td>
<td>M6 x 1.0</td>
<td>90°</td>
<td>19.1 mm</td>
<td>5.5 mm</td>
<td>4.0 mm</td>
<td>18.0 mm</td>
<td>6.0 mm</td>
<td>13.0 mm</td>
<td>10.0 mm</td>
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<tr>
<td>2103 A2103</td>
<td>M8 x 1.0</td>
<td>Straight</td>
<td>15.9 mm</td>
<td>6.5 mm</td>
<td>4.0 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>10.0 mm</td>
<td></td>
</tr>
<tr>
<td>2105 A2105</td>
<td>M8 x 1.0</td>
<td>90°</td>
<td>19.1 mm</td>
<td>5.5 mm</td>
<td>4.0 mm</td>
<td>18.0 mm</td>
<td>8.0 mm</td>
<td>13.0 mm</td>
<td>10.0 mm</td>
<td></td>
</tr>
<tr>
<td>2109 A2109</td>
<td>M10 x 1.0</td>
<td>Straight</td>
<td>15.9 mm</td>
<td>6.5 mm</td>
<td>4.0 mm</td>
<td>—</td>
<td>10.0 mm</td>
<td>—</td>
<td>11.0 mm</td>
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M8 & M10 & BRITISH

In addition to offering metric sizes, Alemite® offers fittings in popular British thread sizes. All British pipe threads shown are tapered. Please note, care should be used to not interchange 3/8"-19 BSPT and 3/8"-18 PTF fittings.

### Technical Drawings are Approximate Actual Size

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Description</th>
<th>Relief</th>
<th>Overall Width (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
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<tr>
<td>369568</td>
<td>A369568</td>
<td>M10 x 1.5 Tapered Thread</td>
<td>Breather —</td>
<td>23.4 mm</td>
<td>7.5 mm</td>
<td>6.4 mm</td>
<td>10.0 mm</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>1958-E</td>
<td>A1958E</td>
<td>1/8&quot;-28 BSPT</td>
<td>Dust Cap —</td>
<td>.97&quot;</td>
<td>.29&quot;</td>
<td>.15&quot;</td>
<td>.38&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>317400-E</td>
<td>A317400E</td>
<td>1/8&quot;-28 BSPT</td>
<td>Vent 0.25-1 psi</td>
<td>.50&quot;</td>
<td>.30&quot;</td>
<td>.23&quot;</td>
<td>.38&quot;</td>
<td>7/16&quot;</td>
<td></td>
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<tr>
<td>47200-E</td>
<td>A47200E</td>
<td>1/8&quot;-28 BSPT</td>
<td>Vent 1-5 psi</td>
<td>.50&quot;</td>
<td>.30&quot;</td>
<td>.23&quot;</td>
<td>.38&quot;</td>
<td>7/16&quot;</td>
<td></td>
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<tr>
<td>47100-E</td>
<td>A47100E</td>
<td>1/8&quot;-28 BSPT</td>
<td>Vent 45-80 psi</td>
<td>.50&quot;</td>
<td>.30&quot;</td>
<td>.23&quot;</td>
<td>.38&quot;</td>
<td>7/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>

*Common Parts
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`GM/CH` General Motors® & General Motors™ are registered trademarks of General Motors Corp., Detroit, MI.

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Straight extensions differ from adapters in that adapters join two non-mating threads while extensions join two parts with the same thread type. Extensions are often used to provide clearance for fittings in hard-to-reach spots.

### Diagram 1
**Straight Adapter**
Male x Female

### Diagram 2
**Straight Extension**
Male x Female

### Diagram 3
**Straight Extension**
Male x Female

### Diagram 4
**Straight Extension**
Male x Female

### Diagram 5
**Straight Adapter**
Male x Female

### Diagram 6
**Straight Adapter**
Male x Female

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
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<tbody>
<tr>
<td>51942</td>
<td>A51942</td>
<td>Dia. 1</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.87&quot;</td>
<td>1/2&quot;</td>
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<tr>
<td>305859</td>
<td>A305859</td>
<td>Dia. 1</td>
<td>7/16&quot;-27 UNS (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.78&quot;</td>
<td>9/16&quot;</td>
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<tr>
<td>43760</td>
<td>A43760</td>
<td>Dia. 1</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>.19&quot;</td>
<td>1.19&quot;</td>
<td>5/8&quot;</td>
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<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
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<tr>
<td>43761</td>
<td>A43761</td>
<td>Dia. 2</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>1/2&quot;</td>
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<tr>
<td>43762</td>
<td>A43762</td>
<td>Dia. 3</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>1.25&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>336551</td>
<td>A336551</td>
<td>Dia. 4</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>1.28&quot;</td>
<td>—</td>
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<tr>
<td>52797</td>
<td>A52797</td>
<td>Dia. 5</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (F)</td>
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<td>1.62&quot;</td>
<td>1&quot;</td>
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<td>338552</td>
<td>A338552</td>
<td>Dia. 6</td>
<td>2&quot;-11 1/2 NPT (M)</td>
<td>3/4&quot;-14 NPT (F)</td>
<td>Straight</td>
<td>1.29&quot;</td>
<td>1-5/8&quot;</td>
</tr>
</tbody>
</table>

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*ALEMITE® is a registered trademark of SKF Group Headquarters.*
### ADAPTERS

1/2"-27 NS Taper threads were developed specifically for use with compressed air lines in lubrication systems. Adapters are used in order to retrofit new components to older assemblies, and to more common thread types.

#### DIAGRAM 1
Straight Adapter
Male x Male

#### DIAGRAM 2
Straight Adapter
Male x Male

#### DIAGRAM 3
Straight Adapter
Male x Male

<table>
<thead>
<tr>
<th>Item #</th>
<th>Alemite Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Male Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>327033</td>
<td>A327033</td>
<td>Dia. 1</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.41&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>41729</td>
<td>A41729</td>
<td>Dia. 1</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.44&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>51888</td>
<td>A51888</td>
<td>Dia. 1</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>Straight</td>
<td>1.81&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>42159</td>
<td>A42159</td>
<td>Dia. 1</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.31&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>130552</td>
<td>A130552</td>
<td>Dia. 2</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.59&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>43379</td>
<td>A43379</td>
<td>Dia. 2</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.38&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>44734</td>
<td>A44734</td>
<td>Dia. 2</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.38&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>307925</td>
<td>A307925</td>
<td>Dia. 2</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>Straight</td>
<td>1.56&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>47703</td>
<td>A47703</td>
<td>Dia. 3</td>
<td>1/2&quot;-27 NS Taper (M)</td>
<td>7/16&quot;-27 UNS (M)</td>
<td>Straight</td>
<td>1.06&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

**Common Parts**

Parts with this designation are in wide distribution.

**G.M.**

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**GM/CH**

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**Ford®**

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**Case IH®**

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Alemit® is a registered trademark of SKF Group Headquarters.
Elbows and angled adapters may be used to mate or adapt threads around corners and in hard-to-reach areas. The 369594 and 369586 are fitting bodies without a mating nipple and are sometimes used to remote mount lubrication points with a flex hose.

### Elbow Configurations

<table>
<thead>
<tr>
<th>Item</th>
<th>Order</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>369594</td>
<td>A369594</td>
<td>1/4&quot;-28 SAE-LT</td>
<td>1/4&quot;-28 UNF</td>
<td>45°</td>
<td>.70&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>369586</td>
<td>A369586</td>
<td>1/4&quot;-28 SAE-LT</td>
<td>1/4&quot;-28 UNF</td>
<td>65°</td>
<td>.70&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>310912</td>
<td>A310912</td>
<td>1/4&quot;-28 SAE-LT</td>
<td>1/8&quot;-27 NPTF</td>
<td>45°</td>
<td>.81&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>43716</td>
<td>A43716</td>
<td>1/8&quot;-27 NPTF</td>
<td>1/8&quot;-27 PTF SAE Short</td>
<td>45°</td>
<td>1.00&quot;</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

**Design Feature**

Elbow connecting parts, such as the 43716, can be used in a variety of applications.
ELBOWS & ADAPTERS

The larger 1/4”-18 thread found on the 43748 is well suited for heavy-duty use in agriculture, construction and on industrial machinery.

**ALEMITE**

**Item #** | **G.L. HUYETT Order #** | **Male Thread (Y)** | **Female Thread (X)** | **Angle (E)** | **Overall Length (A)** | **Hex (H)**
---|---|---|---|---|---|---
51943 | A51943 | 1/4”-28 SAE-LT (M) | 1/8”-27 NPTF (F) | 90° | 1.04” | 1/2” sq.
44701 | A44701 | 1/8”-27 PTF SAE Short (M) | 1/8”-27 NPTF (F) | 90° | 1.00” | 1/2”
43706 | A43706 | 1/8”-27 PTF SAE Short (M) | 1/8”-27 NPTF (F) | 90° | 1.13” | 1/2” sq.
43748 | A43748 | 1/4”-18 PTF SAE Short (M) | 1/4”-18 NPTF (F) | 90° | 1.34” | 11/16” sq.
43718 | A43718 | 1/4”-18 PTF SAE Short (M) | 1/8”-27 NPTF (F) | 90° | 1.19” | 9/16” sq.

**SPECIAL PARTS**

*DON'T SEE WHAT YOU NEED? OUR IN-HOUSE MACHINE SHOP CAN MAKE YOUR CUSTOM PART.*

**CALL THE G.L. HUYETT SALES TEAM FOR MORE INFORMATION!**
Bushings offer the distinct advantage of adapting dissimilar threads without adding substantial length to the threaded part. Special materials are available by request.

**DIAGRAM**

Straight Bushing
Male x Female

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45120</td>
<td>A45120</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>A112</td>
<td>A112</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPSI (F)</td>
<td>Straight</td>
<td>.53&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>40996</td>
<td>A40996</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>.72&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>51891</td>
<td>A51891</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>131586</td>
<td>A131586</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>320354</td>
<td>A320354</td>
<td>1&quot;-11-1/2 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (F)</td>
<td>Straight</td>
<td>1.16&quot;</td>
<td>1-5/16&quot;</td>
</tr>
</tbody>
</table>

**Special Parts**

Looking for something special? Call the G.L. Huyett Sales Team & we will find it for you!

**How They Work**

Bushings are threaded on both the inside & outside and are used for joining parts with different diameters together.

**Common Parts**

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- **GM/CH** General Motors® & a registered trademark of General Motors Corp., Detroit, MI.
- **F** Ford® is a registered trademark of Ford Motor Company.
- **IH** Case IH® is a registered trademark of CNH America LLC., Racine, WI.

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Alemite® is a registered trademark of SKF Group Headquarters.
Pipe plugs are used to seal off threaded holes in a variety of applications including in oil galleys, water jackets, vacuum manifolds and header blocks. They can also be used to temporarily fill a hole when welding is performed nearby to prevent debris from accumulating in the opening.

### PLUGS

**Plug - Slotted Hex Head**
1/4"-28 SAE-LT

**Plug - Square Head**
1/8"-27 NPTF

**Plug - Hex Head**
1/4"-28 Thread Forming

<table>
<thead>
<tr>
<th>Item #</th>
<th>Alemite Order #</th>
<th>Thread (Y)</th>
<th>Overall Length (A)</th>
<th>Drive (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>328224</td>
<td>A328224</td>
<td>1/4&quot;-28 SAE-LT</td>
<td>.33&quot;</td>
<td>5/16&quot; Slotted Hex Head</td>
</tr>
<tr>
<td>1480</td>
<td>A1480</td>
<td>1/8&quot;-27 NPTF</td>
<td>.65&quot;</td>
<td>5/16&quot; Square</td>
</tr>
<tr>
<td>328435</td>
<td>A328435</td>
<td>1/4&quot;-28 Thread Forming</td>
<td>.31&quot;</td>
<td>9/32&quot; Hex</td>
</tr>
</tbody>
</table>

**Proud Partners and Distributors Of:**

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  - Coiled Spring Pins, Slotted Spring Pins, Spacers, & Thrust Washers

- **Rotork Clip**
  - Retaining Rings, Circles, Hose Clamps, Spiral Rings, Constant Section Rings, & Wave Springs

---

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The F106 is a standard grease gun designed for use in general lubrication and occasional maintenance work. This gun is powder coated for a durable finish.

**F106**

Lever Grease Gun - Standard
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
8,000 psi

**CONSIDER THIS...**

There are a variety of ways to refill grease guns. This can be a major deciding factor when choosing a grease gun for an application.

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>F106</td>
<td>AF106</td>
<td>Lever - Standard</td>
<td>14 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 28 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>8,000 psi</td>
<td>3.4 lbs.</td>
</tr>
</tbody>
</table>

---

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Alemite® is a registered trademark of SKF Group Headquarters.
Alemite’s® standard grease gun is their base model, designed for use in general lubrication and daily maintenance work. This gun is equipped with an air bleeder valve, and bulk loader valve and has a vinyl handle to ensure a secure grip.

**FL1**

Lever Grease Gun - Standard
14 oz. Cartridge Capacity
1/8”-27 NPT with Pipe & Coupler
4,300 psi

**CUSTOMERS ALSO BOUGHT**

**COUPLERS**

THE COMPLETE LINE BEGINS ON PAGE 230
Alemite® professional series grease guns are ideal for use in automotive applications. The die cast aluminum head is rugged yet lightweight for use in every application. Professional style guns are equipped with an air bleeder valve, and a vinyl handle cover to ensure a secure grip.

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>A500</td>
<td>Lever - Professional</td>
<td>14 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 21 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>10,000 psi</td>
<td>3.7 lbs.</td>
</tr>
<tr>
<td>500-E</td>
<td>A500E</td>
<td>Lever - Professional w/ Hose</td>
<td>14 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 21 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>10,000 psi</td>
<td>3.3 lbs.</td>
</tr>
<tr>
<td>500-L</td>
<td>A500L</td>
<td>Lever - High Capacity Pro</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 21 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>10,000 psi</td>
<td>3.3 lbs.</td>
</tr>
</tbody>
</table>

Common Parts

GM General Motors®
GM/CH General Motors®/CH
F Ford®
IH Case IH®
For those applications, such as giant button head fittings, which often require large volumes of grease at relatively low pressures, the 4015 series gun is ideal. The Alemite® brand high volume gun delivers three times more grease per stroke than standard guns.

**Alemite® 4015-A4**
Lever Grease Gun - High Volume
14 oz. Cartridge Capacity
1/8”-27 NPT with Pipe & Coupler
1,800 psi

*Common Parts
Part with this designation are in wide distribution.*

<table>
<thead>
<tr>
<th>Item #</th>
<th>G/L HUYETT Order #:</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4015-A4</td>
<td>A4015A4</td>
<td>Lever - High Volume</td>
<td>14 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 7 strokes</td>
<td>1/8”-27 NPT</td>
<td>1,800 psi</td>
<td>4.0 lbs.</td>
</tr>
<tr>
<td>4015-B4</td>
<td>A4015B4</td>
<td>Lever - High Vol./High Capacity</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 7 strokes</td>
<td>1/8”-27 NPT</td>
<td>1,800 psi</td>
<td>5.0 lbs.</td>
</tr>
</tbody>
</table>

**CUSTOMERS ALSO BOUGHT**

**Alemite® # F331035 Grease Gun Holder**

*Orders as of 03-19.*

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Heavy duty grease guns are designed with a rugged die cast steel head, durable body and a strong follower for the toughest use applications. These guns feature a dual lever mechanism which allows for either high-pressure (10,000 psi) or high-volume (1 oz./16 strokes) delivery.

**1056-SE4**

Lever Grease Gun - Heavy Duty
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
10,000 psi

**ALEMITE Item #** | **G.L. HUYETT Order #** | **Grease Gun Series** | **Cart. Cap.** | **Bulk Cap.** | **High Volume Delivery** | **High Pressure Delivery** | **Pipe Extension Thread** | **Maximum Pressure** | **Ship Weight**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
1056-SE4 | A1056SE4 | Lever - Heavy Duty | 14 oz. | 16 oz. | 1 oz / 16 strokes | 1 oz / 25 strokes | 1/8"-27 NPT | 10,000 psi | 5.0 lbs.
1056-S4 | A1056S4 | Lever - Heavy Duty Gun Only | 14 oz. | 16 oz. | 1 oz / 16 strokes | 1 oz / 25 strokes | 1/8"-27 NPT | 10,000 psi | 4.1 lbs.
The extreme duty grease guns feature an extra-long barrel and solid lever for maximum leverage and a 24 oz. bulk loading capacity. The 6243-J3E is a high pressure grease gun. The 6679-J3E provides a high volume output. The cast iron head provides additional durability for severe conditions.

### 6243-J3E
Lever Grease Gun - Extreme Duty - High Pressure
24 oz. Bulk Capacity
1/4"-18 NPTF with Pipe & Coupler 10,000 psi

### 6679-J3E
24 oz. Bulk Capacity
1/4"-18 NPTF with Pipe & Coupler 5,000 psi

---

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>6243-J3E</td>
<td>A6243J3E</td>
<td>Lever - Extreme Duty</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 20 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>10,000 psi</td>
<td>8.1 lbs.</td>
</tr>
<tr>
<td>6243-J3</td>
<td>A6243J3</td>
<td>Lever - Extreme Duty Gun Only</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 20 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>10,000 psi</td>
<td>7.6 lbs.</td>
</tr>
<tr>
<td>6679-J3E</td>
<td>A6679J3E</td>
<td>Lever - Extreme Duty</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 10 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>5,000 psi</td>
<td>13.9 lbs.</td>
</tr>
<tr>
<td>6679-J3</td>
<td>A6679J3</td>
<td>Lever - Extreme Duty Gun Only</td>
<td>14 oz.</td>
<td>24 oz.</td>
<td>1 oz. / 10 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>5,000 psi</td>
<td>7.6 lbs.</td>
</tr>
</tbody>
</table>

---

Common Parts
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Ford®
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Case IH®
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Alemite® is a registered trademark of SKF Group Headquarters.
HIGH PRESSURE - LEVER GEAR GUN

The high pressure series grease guns are zinc plated to withstand harsh environments and will develop pressures up to 15,000 psi. In addition to grease, these guns may also be used to dispense sealants and other fluids.

**325540-1**
Lever Grease Gun - High Pressure
12 oz. Cylinder Capacity
1/4"-18 NPTF w/ Hose & Giant Button Head Coupler
15,000 psi

<table>
<thead>
<tr>
<th>Item #</th>
<th>Grease Gun Series</th>
<th>Cylinder Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>325540-1</td>
<td>Lever - High Press. Giant Button Head Coupler</td>
<td>12 oz.</td>
<td>1 oz. / 24 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>15,000 psi</td>
<td>21.9 lbs.</td>
</tr>
<tr>
<td>6268-2</td>
<td>Lever - High Pressure - Gun Only</td>
<td>12 oz.</td>
<td>1 oz. / 24 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>15,000 psi</td>
<td>16.5 lbs.</td>
</tr>
<tr>
<td>325540-2</td>
<td>Lever - High Press. Saf-T-Vent Coupler</td>
<td>12 oz.</td>
<td>1 oz. / 24 strokes</td>
<td>1/4&quot;-18 NPTF</td>
<td>15,000 psi</td>
<td>22.0 lbs.</td>
</tr>
</tbody>
</table>
CORDLESS - STANDARD GREASE GUN

Alemite® cordless grease guns come standard in an impact-resistant carrying case and are equipped with a charger and 3’ grease hose and coupler. The listed guns include two batteries. Additional accessories are listed below.

### 585-B1
Cordless Grease Gun - 14.4 volt
- 14 oz. Cartridge Capacity
- 1/8”-27 NPTF with Hose & Coupler
- 10,000 psi

### 575-B1
Cordless Grease Gun - 12 volt
- 14 oz. Cartridge Capacity
- 1/8”-27 NPTF with Hose & Coupler
- 6,500 psi

**ALEMITE**

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Volts</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>340911</td>
<td>A340911</td>
<td>Replacement Battery</td>
<td>12 volt</td>
<td>NiCd Battery</td>
</tr>
<tr>
<td>340912</td>
<td>A340912</td>
<td>Replacement Battery</td>
<td>14.4 volt</td>
<td>NiCd Battery</td>
</tr>
<tr>
<td>340913</td>
<td>A340913</td>
<td>AC Charger</td>
<td>12 / 14.4 volt</td>
<td>One-hour Charger with 110 volt / 60 Hz AC Input</td>
</tr>
<tr>
<td>340916</td>
<td>A340916</td>
<td>DC Car Charger</td>
<td>12 / 14.4 volt</td>
<td>One-hour Charger with 12 volt DC Input</td>
</tr>
<tr>
<td>339812</td>
<td>A339812</td>
<td>Gun Strap</td>
<td>—</td>
<td>Reduces Operator Fatigue and Easy Hanging Storage</td>
</tr>
<tr>
<td>340338</td>
<td>A340338</td>
<td>Battery Powered Gun Relief Valve</td>
<td>—</td>
<td>Relieves Pressure from Cordless Grease Gun</td>
</tr>
</tbody>
</table>
Alemite's® F103 pistol grip grease gun is the entry level standard model. It is equipped with a rugged die cast aluminum head and will develop up to 4,500 psi. A rigid pipe extension and coupler are included with each gun.

**F103**

Pistol Grease Gun - Standard Duty  
14 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
4,500 psi  

**MINI**

The F104 is a one-hand pistol grip grease gun with a convenient pull type operating mechanism. The aluminum die cast head incorporates two discharge ports – the commonly used front port for regular greasing and a top port used with a flexible hose for greasing in hard-to-access areas.

**F104**

Mini Grease Gun - Standard Duty  
3 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
2,900 psi

---

STANDARD - PISTOL-GRIP GREASE GUN

Alemite's® F103 pistol grip grease gun is the entry level standard model. It is equipped with a rugged die cast aluminum head and will develop up to 4,500 psi. A rigid pipe extension and coupler are included with each gun.

**F103**

Pistol Grease Gun - Standard Duty  
14 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
4,500 psi

**MINI**

The F104 is a one-hand pistol grip grease gun with a convenient pull type operating mechanism. The aluminum die cast head incorporates two discharge ports – the commonly used front port for regular greasing and a top port used with a flexible hose for greasing in hard-to-access areas.

**F104**

Mini Grease Gun - Standard Duty  
3 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
2,900 psi

---

STANDARD - PISTOL-GRIP GREASE GUN

Alemite's® F103 pistol grip grease gun is the entry level standard model. It is equipped with a rugged die cast aluminum head and will develop up to 4,500 psi. A rigid pipe extension and coupler are included with each gun.

**F103**

Pistol Grease Gun - Standard Duty  
14 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
4,500 psi

**MINI**

The F104 is a one-hand pistol grip grease gun with a convenient pull type operating mechanism. The aluminum die cast head incorporates two discharge ports – the commonly used front port for regular greasing and a top port used with a flexible hose for greasing in hard-to-access areas.

**F104**

Mini Grease Gun - Standard Duty  
3 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
2,900 psi

---

STANDARD - PISTOL-GRIP GREASE GUN

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Pistol Grease Gun - Standard Duty  
14 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
4,500 psi

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**F104**

Mini Grease Gun - Standard Duty  
3 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
2,900 psi

---

STANDARD - PISTOL-GRIP GREASE GUN

Alemite's® F103 pistol grip grease gun is the entry level standard model. It is equipped with a rugged die cast aluminum head and will develop up to 4,500 psi. A rigid pipe extension and coupler are included with each gun.

**F103**

Pistol Grease Gun - Standard Duty  
14 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
4,500 psi

**MINI**

The F104 is a one-hand pistol grip grease gun with a convenient pull type operating mechanism. The aluminum die cast head incorporates two discharge ports – the commonly used front port for regular greasing and a top port used with a flexible hose for greasing in hard-to-access areas.

**F104**

Mini Grease Gun - Standard Duty  
3 oz. Cartridge Capacity  
1/8"-27 NPTF with Pipe & Coupler  
2,900 psi

---
The Professional series pistol type grease gun is one of Alemite’s® most popular pistol operated guns. Its unique dual leverage handle allows users a choice between high pressure or high volume output. These guns are made with heavy-duty aluminum die cast heads.

**555**

Pistol Grease Gun - PRIME
14 oz. Cartridge Capacity
1/8”-27 NPT with Pipe & Coupler
7,500 psi

**555-E**

Pistol Grease Gun - PRIME
14 oz. Cartridge Capacity
1/8”-27 NPT with Pipe & Coupler
7,500 psi

---

### Common Parts

- **General Motors®**
- **Case IH®**
- **Ford®**

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**SPECIALTY - GREASE GUN**

### PNEUMATIC

**F100**

Pneumatic Grease Gun - Intermittent

- 14 oz. Cartridge Capacity
- 1/8"-27 NPTF with Pipe & Coupler
- 6,000 psi

**Cartridge Load**

**Bulk Load**

**Use with Air Supply**

**C600**

Screw Type Grease Gun - Standard Duty

- 8 oz. Capacity
- 1/8"-27 NPTF

**Hand Load**

**Operation of the gun is achieved by turning the screw handle to dispense lubricant.**

**SUCTION GUN**

**F105**

Suction Gun

- 16 oz. Capacity
- 12" Flexible Vinyl Hose

**The Alemite® brand suction gun is suitable for draining non-corrosive lubricants.**

### Specifications

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>F100</td>
<td>AF100</td>
<td>Pneumatic</td>
<td>14 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 7 cycles</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
<td>4.1 lbs.</td>
</tr>
<tr>
<td>C600</td>
<td>AC600</td>
<td>Screw Type</td>
<td>—</td>
<td>8 oz.</td>
<td>—</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>1.5 lbs.</td>
</tr>
<tr>
<td>F105</td>
<td>AF105</td>
<td>Suction Gun</td>
<td>—</td>
<td>16 oz.</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>2.2 lbs.</td>
</tr>
</tbody>
</table>

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**General Motors®/CH**

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**SPECIALTY - GREASE GUN**

### OIL GUN

**4035**

Lever Oil Gun - Heavy Duty
26 oz. Bulk Capacity
1/8"-27 NPTF with Pipe & Coupler
1,800 psi

![Lever Oil Gun](image)

**NOTE: THIS GUN USES OIL AND MUST BE LOADED BY HAND**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4035</td>
<td>A4035</td>
<td>Oil gun</td>
<td>—</td>
<td>26 oz.</td>
<td>1 oz. / 7 strokes</td>
<td>1/8&quot;-27 NPTF</td>
<td>1,800 psi</td>
<td>5.3 lbs.</td>
</tr>
</tbody>
</table>

### PUSH TYPE

**7584**

Grease Gun - Push Type
9 oz. Bulk Capacity
1/8"-27 NPTF with Pipe & Coupler
4,200 psi

![Grease Gun - Push Type](image)

**SPECIFICALLY DESIGNED FOR LUBRICATING HYDRAULIC FITTINGS**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7584</td>
<td>A7584</td>
<td>Push Type</td>
<td>—</td>
<td>9 oz.</td>
<td>—</td>
<td>1/8&quot;-27 NPTF</td>
<td>4,200 psi</td>
<td>2.3 lbs.</td>
</tr>
</tbody>
</table>
Alemite® brand manual pumps and assemblies are a simple way to lubricate without electricity or compressed air. The 7149-4 is a manual pump ideal for the jobs that require frequent lubrication. This pump is ideal for stationary barrels with multiple maintenance locations.

**7149-4**
Multi-Pressure Bucket Pump
35 lb. Capacity
5,000 / 2,500 psi Variable

**7531-4**
Manual Grease Pump Assembly
Fits 5 gal. Pail
3,500 psi

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Barrel Size</th>
<th>Working Psi</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>7149-4</td>
<td>Multi-Pressure Bucket Pump</td>
<td>35 lb.</td>
<td>5,000 psi / 2,500 psi</td>
<td>18.0 lbs.</td>
</tr>
<tr>
<td>7531-4</td>
<td>Manual Grease Pump Assembly</td>
<td>Fits 5 gal. Pail</td>
<td>3,500 psi</td>
<td>11.0 lbs.</td>
</tr>
<tr>
<td>322434</td>
<td>Hydraulic Narrow Fitting Hose Assembly</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>6615-G</td>
<td>Giant Button Head Hose Assembly</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>6616-G</td>
<td>Standard Button Head Hose Assembly</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>6777-5</td>
<td>Portable Cart</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Bulk loader fittings fit grease guns with a 1/8"-27 NPTF port in the head. The bulk loader coupler has a built-in ball check & dust cover to reduce contamination of grease between refills. The grease gun holder mounts to any surface, so you can hang your grease gun when not in use.

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Bulk loader fittings fit grease guns with a 1/8"-27 NPTF port in the head. The bulk loader coupler has a built-in ball check & dust cover to reduce contamination of grease between refills. The grease gun holder mounts to any surface, so you can hang your grease gun when not in use.

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Thread</th>
<th>Overall Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>B306740</td>
<td>A306740</td>
<td>Bulk Loading Fitting</td>
<td>1/8&quot;-27 NPTF</td>
<td>1-1/4&quot;</td>
<td>.48&quot;</td>
</tr>
<tr>
<td>B322610</td>
<td>A322610</td>
<td>Bulk Loading Fitting</td>
<td>1/8&quot;-27 NPTF</td>
<td>1-3/8&quot;</td>
<td>.48&quot;</td>
</tr>
<tr>
<td>306741</td>
<td>A306741</td>
<td>Bulk Loading Coupler</td>
<td>3/8&quot;-18 NPTF</td>
<td>2&quot;</td>
<td>.48&quot;</td>
</tr>
<tr>
<td>F331035</td>
<td>AF331035</td>
<td>Grease Gun Holder</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

**COUPLER COMPATIBILITY**

Quick connect couplers include two shrouds. The smaller shroud fits narrow hydraulic couplers. The second shroud fits standard couplers with thicker wall designs intended for higher pressure applications.

**Common Parts**

*Part with this designation are in wide distribution.*

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**FORD®**

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**GM/CH**

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**MEDIUM DUTY HOSES**

Grease hoses allow for access to hard-to-reach grease fittings. Alemite® brand grease hoses come in a variety of lengths and working pressures to fit any application. Please note: Never use a grease hose at a pressure above the recommended working pressure.

**DIAGRAM**

Flexible Grease Hose - Medium Duty
1/8"-27 NPTF
4,800 psi

**FOR HAND EQUIPMENT**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>317850-1</td>
<td>A317850-1</td>
<td>Flexible Grease Hose - Medium Duty</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>4,800 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>317850-1F</td>
<td>A317850-1F</td>
<td>Flexible Grease Hose - Medium Duty</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>4,800 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>317850-2</td>
<td>A317850-2</td>
<td>Flexible Grease Hose - Medium Duty</td>
<td>24&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>4,800 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>317850-3</td>
<td>A317850-3</td>
<td>Flexible Grease Hose - Medium Duty</td>
<td>36&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>4,800 psi</td>
<td>12,000 psi</td>
</tr>
</tbody>
</table>

**HEAVY DUTY HOSES**

**DIAGRAM**

Flexible Grease Hose - Heavy Duty
1/8"-27 NPTF
6,000 psi

**FOR HAND EQUIPMENT**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>B337595-A1</td>
<td>AB337595-A1</td>
<td>Flexible Grease Hose - Heavy Duty</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>B337595-B1</td>
<td>AB337595-B1</td>
<td>Flexible Grease Hose - Heavy Duty</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>6,000 psi</td>
<td>12,000 psi</td>
</tr>
</tbody>
</table>
**RIGID EXTENSIONS**

Alemite® rigid pipe extensions come in various lengths to allow for easy attachment between grease guns and couplers. They are offered in straight or 30° versions and in various lengths to fit any application.

### DIAGRAM

Rigid Pipe Extension
1/8"-27 NPTF

**STRAIGHT EXTENSION**

**ANGLE EXTENSION**

### FOR AIR / BATTERY EQUIP.

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Coupler included</th>
</tr>
</thead>
<tbody>
<tr>
<td>B6638</td>
<td>A66338</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>6.75&quot;</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6304-B</td>
</tr>
<tr>
<td>B6638-A</td>
<td>A66338-A</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>6.625&quot;</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>308730</td>
</tr>
<tr>
<td>54269</td>
<td>A54269</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>8&quot;</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/4&quot;-18 NPTF</td>
<td>6304-B</td>
</tr>
<tr>
<td>6638-B</td>
<td>A6638-B</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>12.125&quot;</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>308730</td>
</tr>
<tr>
<td>6279</td>
<td>A6279</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>21&quot;</td>
<td>Angle</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>6304-B</td>
</tr>
<tr>
<td>339570</td>
<td>A339570</td>
<td>Rigid pipe Extension - Heavy Duty</td>
<td>6&quot;</td>
<td>Straight</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>308730</td>
</tr>
</tbody>
</table>

### CONSIDER THIS...

- **ORDER A8:** A6304-B
- **COUPLERS**
  - **ORDER A8:** A308730

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Hydraulic couplers provide a quick positive leak-proof connection with hydraulic fittings during service. Hydraulic couplers can be used with any type of hydraulic fitting. The hexagonal shape is designed for easy engagement when tightening the coupler.

**Hydraulic Coupler - Standard**

- **6304-B**
  - 1/8"-27 NPTF
  - 10,000 psi
  - Metal Seal

- **6304-C**
  - 1/8"-27 NPTF
  - 10,000 psi
  - Metal Seal

- **308730**
  - 1/8"-27 NPTF
  - 10,000 psi
  - No Ball Check

**Hydraulic Coupler - Narrow**

- **308730-A**
  - 1/8"-27 NPTF
  - 10,000 psi
  - Rubber Seal

- **B330070**
  - 1/8"-27 NPTF
  - 10,000 psi
  - Rubber Seal

- **B154**
  - 1/8"-27 NPTF
  - 10,000 psi
  - Rubber Seal

---

**Table:**

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Jaws</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Ball Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>6304-B</td>
<td>A6304-B</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
<tr>
<td>6304-C</td>
<td>A6304-C</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>308730</td>
<td>A308730</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
<tr>
<td>308730-A</td>
<td>A308730-A</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>Yes</td>
</tr>
<tr>
<td>B330070</td>
<td>A330070</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
<tr>
<td>B154</td>
<td>AB154</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
</tbody>
</table>
The 360° swivel hydraulic coupler is good for servicing multiple greasing angles in a single job. The swivel allows you to adjust the angle to reach the greasing nipple without having to change the coupler in between uses.

### COUPLERS

#### Special Use

The 360° swivel hydraulic coupler is good for servicing multiple greasing angles in a single job. The swivel allows you to adjust the angle to reach the greasing nipple without having to change the coupler in between uses.

<table>
<thead>
<tr>
<th>Alemite Item #</th>
<th>G.L. Huyett Order #</th>
<th>Description</th>
<th>Jaws</th>
<th>Use On</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Ball Check</th>
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</thead>
<tbody>
<tr>
<td>322120</td>
<td>A322120</td>
<td>Hydraulic Coupler - 90° Narrow</td>
<td>3 Jaw</td>
<td>Hand</td>
<td>1/8”-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
<tr>
<td>6509-D</td>
<td>A6509-D</td>
<td>Hydraulic Coupler - 360° Swivel</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
<tr>
<td>6509-E</td>
<td>A6509-E</td>
<td>Hydraulic Coupler - 360° Swivel</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8”-27 NPTF</td>
<td>10,000 psi</td>
<td>No</td>
</tr>
</tbody>
</table>

**Common Parts**

Parts with this designation are in wide distribution.

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*Case IH® is a registered trademark of CNH America LLC., Racine, WI.*

*Ford® is a registered trademark of Ford Motor Company.*

*G.L. Huyett is a registered trademark of SKF Group Headquarters.*

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**COUPLERS**

Button head couplers are designed to easily push or pull over the head of button head fittings. The slot opening is designed to fit a standard button head fitting with a head diameter of 5/8” or 15.0 mm. The giant button head grease fitting couplers have a larger slot to accommodate the larger head of the giant button head grease fitting.

### Button Head Couplers

- **42030**
  - **Description:** Button Head Coupler
  - **Type:** Pull-On
  - **Thread:** 7/16"-27 UNS
  - **Pressure:** 10,000 psi

- **42030-A**
  - **Description:** Button Head Coupler
  - **Type:** Pull-On
  - **Thread:** 1/8"-27 NPTF
  - **Pressure:** 10,000 psi

- **42031-A**
  - **Description:** Button Head Coupler
  - **Type:** Push-On
  - **Thread:** 1/8"-27 NPTF
  - **Pressure:** 10,000 psi

### Giant Button Head Couplers

- **304301**
  - **Description:** Giant Button Head Coupler
  - **Type:** Push-On
  - **Thread:** 7/16"-27 UNS
  - **Pressure:** 15,000 psi

- **319702**
  - **Description:** Giant Button Head Coupler
  - **Type:** Pull-On
  - **Thread:** 1/4" PTF SAE Short
  - **Pressure:** 15,000 psi

- **304300-A**
  - **Description:** Giant Button Head Coupler
  - **Type:** Pull-On
  - **Thread:** 1/8"-27 NPTF
  - **Pressure:** 15,000 psi

- **304300**
  - **Description:** Giant Button Head Coupler
  - **Type:** Pull-On
  - **Thread:** 7/16"-27 UNS
  - **Pressure:** 15,000 psi

---

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COUPLERS

The pin type grease fitting coupler is designed to engage with a pin type grease fitting. The angled slots fit around the pins of the fitting to provide a quick, secure and leak-proof connection for proper lubrication servicing. The Z737, 314150 and B411 are designed for servicing flush type grease fittings.

**Z737**
Flush Type Coupler
1/8”-27 NPTF

**314150**
Flush Type Coupler - Midget for 1877
1/8”-27 NPTF

**50491**
Pin Type Coupler - Male with Wing
1/8”-27 NPTF
10,000 psi

**51185**
Pin Type Coupler - Female with Wing
1/8”-27 NPTF
10,000 psi

**VB942**
Pin Type Coupler - Female
1/8”-27 NPTF
10,000 psi

**SPECIAL PARTS**

Looking for something special?
Call the G.L. Huyett sales team, we will find it for you!

**ALEMITE**
Item # | G.L. HUYETT Order # | Description | Equipment Type | Thread | Overall Length | Tip Diameter | Working Pressure
--- | --- | --- | --- | --- | --- | --- | ---
Z737 | AZ737 | Coupler - Flush Type Female | Hand | 1/8”-27 NPTF | 1.25” | .213” | —
314150 | A314150 | Coupler - Midget Flush Type Female | Hand | 1/8”-27 NPTF | 1.0” | .08” | —
50491 | A50491 | Coupler - Pin Type Male with Wing | Hand | 1/8”-27 NPTF | — | — | 10,000 psi
51185 | A51185 | Coupler - Pin Type Female with Wing | Hand | 1/8”-27 NPTF | — | — | 10,000 psi
VB942 | AVB942 | Coupler - Pin Type Female | Hand | 1/8”-27 NPTF | — | — | 10,000 psi

Common Parts

Part with this designation are in wide distribution.

General Motors®
General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

General Motors®/CH
General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

Ford®
Ford® is a registered trademark of Ford Motor Company.

Case IH®
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QUICK CONNECT

Instead of lugging around multiple tools and accessories, use quick connect adaptors. Use one grease gun and multiple quick connectors for a fast and easy transition between couplers. The quick connect tools attach to hydraulic couplers for servicing.

**B200**
Quick Connect Coupler
Injector Needle Tip
Straight

**6278**
Quick Connect Coupler
Hydraulic Tip
360° Angle

---

### ALEMITE

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Jaws</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Tip</th>
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<tbody>
<tr>
<td>B200</td>
<td>A8200</td>
<td>Quick Connect Injector Needle</td>
<td>—</td>
<td>Straight</td>
<td>Hand</td>
<td>Injector Needle</td>
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<tr>
<td>6278</td>
<td>A6278</td>
<td>Quick Connect Coupler</td>
<td>3 Jaw</td>
<td>360°</td>
<td>Hand</td>
<td>Hydraulic</td>
</tr>
</tbody>
</table>
METERS & LUBRICATORS

Alemite® brand grease meters work with almost any type of grease dispensing equipment. The meters accurately deliver grease and lubricant to the bearing or component. Single point lubricators provide continuous grease or oil to the lubrication point providing proper lubrication.

**3530**
Electronic Grease Meter
1/8"-27 NPTF
10,000 Psi

**1345-20GR001**
Single Point Lubricator - Disposable
Reservoir Capacity: 4.06 oz.
1/4"-18 NPTF
20 psi

**1346-151**
Single Point Lubricator - Refillable
Reservoir Capacity: 5 oz.
1/2"-14 NPTF
75 psi

![Electronic Grease Meter](image)
![Single Point Lubricator - Disposable](image)
![Single Point Lubricator - Refillable](image)

**COMMON PARTS**
Parts with this designation are in wide distribution.

<table>
<thead>
<tr>
<th>ALEMITE Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Thread</th>
<th>Reservoir Capacity</th>
<th>Operating Pressure</th>
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<tbody>
<tr>
<td>3530</td>
<td>A3530</td>
<td>Electronic Grease Meter</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>41531</td>
<td>A41531</td>
<td>Grease Meter Adapter for Guns: 500, 525, &amp; 550</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>340062</td>
<td>A340062</td>
<td>Grease Meter Adapter for 575 &amp; 585 Series Guns</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>327899-6</td>
<td>A327899-6</td>
<td>Grease Meter Adapter for 1056 &amp; 4015 Series Guns</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>306722</td>
<td>A306722</td>
<td>Grease Meter Adapter for Guns 6243-J3 &amp; 6679-J3</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>1745-20GR001</td>
<td>A1745-20GR001</td>
<td>Single Point Lubricator Disposable</td>
<td>1/4&quot;-18 NPTF</td>
<td>4.06 oz.</td>
<td>20 psi</td>
</tr>
<tr>
<td>1746-151</td>
<td>A1746-151</td>
<td>Single Point Lubricator Refillable</td>
<td>1/2&quot;-14 NPTF</td>
<td>5 oz.</td>
<td>75 psi</td>
</tr>
</tbody>
</table>

**SERVICE SUGGESTION**

Using a grease meter & mounting kit to accurately deliver just the right amount prevents over lubrication and possible damage to components.
BACKGROUND

In 2002, the out-dated MIL-F-3541 Military Standard, which had been in service for over 50 years, was replaced by the SAE AS35411 Aerospace Specification. The new standard is now accepted as the primary standard for Military and Aerospace grease fittings. Certified documentation of the grease fittings manufactured to the Aerospace Standard (AS) are approved for use on aircraft, ground vehicles and surface vessels. Grease fittings manufactured in accordance with AS35411 are tightly controlled, inspected and tested. Testing, materials and inspections must be documented and they must be made available to the purchaser upon request. AS fittings are tightly controlled in every aspect of manufacture from raw materials procurement to production, inspection, testing, packaging and identification. All manufactured lots are traceable to the manufacturer’s processes and tests. The raw materials used in the manufacture are traceable to the mills that made them. The quality and performance results are documented to ensure that each fitting fully complies with the AS standard’s stringent requirements.

QUALITY ASSURANCE

1. OPENING PRESSURE
   Ensures that fitting will operate at low pressures.

2. HARDNESS
   Microhardness testing to ensure wear from repeated use.

3. BLOWOUT
   Test includes dissecting the part after high pressure testing to reveal internal damage.
   *Please Note Test #3 Does Not Apply to Fittings Containing Rubber Ball Check.*

4. SALT SPRAY
   Measures corrosion resistance, with AS (zinc plated) rated at 50 hours and AS1 (zinc-nickel) at 50 hours to red rust.

OPERATION

1. EXTREME ANGULAR POSITION
   Verifies fitting coupler engagement at extreme angles.

2. LUBRICANT LEAKAGE
   Limits the external leakage after fitting is pressurized.

3. GASOLINE LEAKAGE
   Ensures that fitting will perform after coming in contact with fuel.

4. ACCELERATED AGING
   After heating and submersing in gasoline, the back pressure of the fitting is tested as a simulation of service life.
   *Please Note Tests #3 and #4 Only Apply to Fittings Containing Rubber Ball Check.*

EXTREME ANGULAR POSITION

LUBRICANT LEAKAGE

GASOLINE LEAKAGE

ACCELERATED AGING

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PART NUMBERING

SAE’s new AS part numbering system refers back to the old MIL-F-3541 basic part numbers. The addition of a suffix denotes material and finish.

### CROSS REFERENCE CHART

<table>
<thead>
<tr>
<th>AS Number</th>
<th>Description</th>
<th>Obsolete MS Number</th>
<th>Boeing® Number</th>
<th>ALEMITE® Number</th>
<th>Huyett Number</th>
<th>Catalog Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS15001-1P</td>
<td>Straight 1/4&quot;-28 Taper Thread</td>
<td>MS15001-1</td>
<td>1641-AS</td>
<td>A1641-AS</td>
<td>238</td>
<td></td>
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<tr>
<td>AS15001-2P</td>
<td>Straight 1/4-28&quot; Taper Thread</td>
<td>MS15001-2</td>
<td>1680-AS</td>
<td>A1680-AS</td>
<td>238</td>
<td></td>
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<tr>
<td>AS15001-3P</td>
<td>45° Angle 1/4-28&quot; Taper Thread</td>
<td>MS15001-3</td>
<td>1637-AS</td>
<td>A1637-AS</td>
<td>238</td>
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<tr>
<td>AS15001-4P</td>
<td>90° Angle 1/4-28&quot; Taper Thread</td>
<td>MS15001-4</td>
<td>1911-AS</td>
<td>A1911-AS</td>
<td>238</td>
<td></td>
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<tr>
<td>AS15003-1P</td>
<td>Straight 1/8&quot; PTF Spl. Short</td>
<td>MS15003-1</td>
<td>1610-AS</td>
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<td>AS15006-1P</td>
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<td>MS15006-1</td>
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<td>A1650-AS</td>
<td>240</td>
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<td>1611-AS</td>
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<td>30° Angle 1/8&quot; NPTF Leak Proof</td>
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<td>1692-AS</td>
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<td>45° Angle 1/8&quot; PTF Spl. Short</td>
<td>MS15003-4</td>
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<td>MS15003-5</td>
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<tr>
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<td>241</td>
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<td>AS15006-4P</td>
<td>90° Angle 1/8&quot; NPTF Leak Proof</td>
<td>MS15006-4</td>
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<td>A1693-AS</td>
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<td>1792-AS</td>
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<td>MS15002-3</td>
<td>1770-AS</td>
<td>A1770-AS</td>
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<tr>
<td>AS15720-1</td>
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<td>MS15720-1</td>
<td>1966-AS2</td>
<td>A1966-AS2</td>
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<tr>
<td>AS15721-1</td>
<td>Straight 1/8&quot; PTF Spl. Extra Short</td>
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<td>1961-AS2</td>
<td>A1961-AS2</td>
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<tr>
<td>AS15721-3</td>
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<tr>
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<td>1923-AS2</td>
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<td>A1923-AS3</td>
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</tbody>
</table>
For over 50 years the standard for military grade grease fittings was MIL-F-3541. In 2002, SAE AS35411 was accepted as the primary standard for military and aerospace grade grease fittings thus replacing the out-dated MIL-F-3541 standard. Fittings are proven to be manufactured to this standard by way of certified documentation and are approved for use on aircraft, ground vehicles and surface vessels.

| A1641-AS | Aerospace - Straight 1/4"-28 Taper Thread Standard Shank |
| A1680-AS | Aerospace - Straight 1/4"-28 Taper Thread Extra Long Shank |
| A1637-AS | Aerospace - 45° Angle 1/4"-28 Taper Thread Standard Shank |
| A1911-AS | Aerospace - 90° Angle 1/4"-28 Taper Thread Standard Shank |

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (°)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
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<td>0.63&quot;</td>
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<td>.25&quot;</td>
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<td>.39&quot;</td>
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**MILITARY SPECIFICATION**

**THE MIL-F-3541 MILITARY STANDARD IS NO LONGER VALID, IT HAS BEEN SUPERSEDED BY THE SAE AS35411 SPECIFICATION RELEASED IN 2002. GREASE FITTINGS ARE NO LONGER TESTED OR CERTIFIED TO THE OLD MILITARY STANDARD.**
1/4"-28 PARALLEL

Grease fittings manufactured in accordance with SAE AS35411 are tightly controlled, inspected and tested. The additional controls and testing are mandatory for the Aerospace Industry’s and military’s performance and safety requirements. Testing, materials and inspections of all aerospace grease fittings must be fully documented.

### Common Parts
Parts with this designation are in wide distribution.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (E)</th>
<th>Swing Clearance (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1792-AS</td>
<td>1/4&quot;-28 Straight</td>
<td></td>
<td>0.53&quot;</td>
<td>0.13&quot;</td>
<td>.10&quot;</td>
<td></td>
<td>.25&quot;</td>
<td></td>
<td>9/32&quot;</td>
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<tr>
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<td>.11&quot;</td>
<td>.60&quot;</td>
<td>.25&quot;</td>
<td>.41&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

### Identification
Alemite® Aerospace fittings have an identification notch above the hex for positive identification. Aerospace Stainless Steel fittings have two identification notches on the hex. Aerospace Monel® fittings have a single identification notch on the hex.

---

Technical Drawings are Approximate Actual Size

Alemite® is a registered trademark of SKF Group Headquarters.

Monel® is a registered trademark of the Inco Alloys, International, Inc.

SAE AS35411

SAE® is a registered trademark of SAE International.

Military Specification

Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

REVISED 03-19
Aerospace or "AS" fittings are tightly controlled in every aspect of manufacture, from raw materials procurement, to production, inspection, testing, packaging and identification. All manufactured lots are traceable to the manufacturer’s processes and tests. In addition, all quality and performance results are documented to ensure that each fitting fully complies with the AS standard’s stringent requirements.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<tr>
<td>A1610-AS</td>
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<td>0.28&quot;</td>
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<tr>
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<td>.52&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

*Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2019

Alemite® is a registered trademark of SKF Group Headquarters. Monel® is a registered trademark of the Inco Alloys, International, Inc.
### Testing standards for AS fittings are outlined by the SAE AS35411 specification. Requirements include testing for:
- salt spray
- extreme angular position
- opening pressure
- hardness
- lubricant leakage
- gasoline leakage
- blowout
- accelerated age

The Aerospace part numbering system closely mimics that of the old Military standard.

#### 1/8"-27 PTF

**A1611-AS**  
Aerospace - 30° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

**A1688-AS**  
Aerospace - 45° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

**A1612-AS**  
Aerospace - 65° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

**A1613-AS**  
Aerospace - 90° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
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<td>0.28&quot;</td>
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<td>.72&quot;</td>
<td>.39&quot;</td>
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<td>7/16&quot;</td>
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<tr>
<td>A1613-AS</td>
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<td>0.28&quot;</td>
<td>.19&quot;</td>
<td>.73&quot;</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

### AEROSPACE TESTING REQUIREMENTS

**QUALITY ASSURANCE**
- Opening Pressure
- Hardness
- Blowout
- Salt Spray

**OPERATION**
- Extreme Angular Position
- Lubricant Leakage
- Gasoline Leakage
- Accelerated Age
In accordance to the SAE AS35411 specification, stainless steel aerospace grease fittings are marked with a double notch for identification purposes. Aerospace fittings have a slight identification notch at the base of the greasing nipple, just before it meets the hex.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (°)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>0.19&quot;</td>
<td>.11&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
<td></td>
</tr>
<tr>
<td>A1968-AS2</td>
<td>1/4&quot;-28 45°</td>
<td>0.87&quot;</td>
<td>0.19&quot;</td>
<td>.11&quot;</td>
<td>.58&quot;</td>
<td>.25&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
<td></td>
</tr>
<tr>
<td>A1969-AS2</td>
<td>1/4&quot;-28 90°</td>
<td>0.78&quot;</td>
<td>0.19&quot;</td>
<td>.11&quot;</td>
<td>.69&quot;</td>
<td>.25&quot;</td>
<td>.50&quot;</td>
<td>3/8&quot;</td>
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<tr>
<td>A1961-AS2</td>
<td>1/8&quot;-27 Straight</td>
<td>0.75&quot;</td>
<td>0.28&quot;</td>
<td>.16&quot;</td>
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<td>.39&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
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<td>A1921-AS2</td>
<td>1/8&quot;-27 30°</td>
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<td>0.38&quot;</td>
<td>.19&quot;</td>
<td>.56&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>A1922-AS2</td>
<td>1/8&quot;-27 65°</td>
<td>1.09&quot;</td>
<td>0.38&quot;</td>
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<td>.72&quot;</td>
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<td>.50&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>A1923-AS2</td>
<td>1/8&quot;-27 90°</td>
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<td>.73&quot;</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
<td></td>
</tr>
</tbody>
</table>
To distinguish them from stainless steel fittings, Monel® fittings have a single identification notch on the hex in addition to the standard aerospace identification notch. Monel® offers the highest corrosion resistance of all aerospace fittings.

**SAE AS35411**

**MONEL®**

A1966-AS3  
Aerospace - Straight  
1/4"-28 Taper Thread  
Standard Shank

A1968-AS3  
Aerospace - 45° Angle  
1/4"-28 Taper Thread  
Standard Shank

A1969-AS3  
Aerospace - 90° Angle  
1/4"-28 Taper Thread  
Standard Shank

A1961-AS3  
Aerospace - Straight  
1/8"-27 PTF Spl. Ex. Short  
Standard Shank

A1921-AS3  
Aerospace - 30° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

A1922-AS3  
Aerospace - 65° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

A1923-AS3  
Aerospace - 90° Angle  
1/8"-27 PTF Spl. Short  
Standard Shank

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.11&quot;</td>
<td>—</td>
<td>.25&quot;</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>A1968-AS3</td>
<td>1/4&quot;-28</td>
<td>45°</td>
<td>0.87&quot;</td>
<td>0.19&quot;</td>
<td>.11&quot;</td>
<td>.58&quot;</td>
<td>.25&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
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<tr>
<td>A1969-AS3</td>
<td>1/4&quot;-28</td>
<td>90°</td>
<td>0.76&quot;</td>
<td>0.19&quot;</td>
<td>.11&quot;</td>
<td>.69&quot;</td>
<td>.25&quot;</td>
<td>.50&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>A1961-AS3</td>
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<td>.19&quot;</td>
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<tr>
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<td>0.312&quot;</td>
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<td>.56&quot;</td>
<td>.39&quot;</td>
<td>.34&quot;</td>
<td>7/16&quot;</td>
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<tr>
<td>A1922-AS3</td>
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<td>.72&quot;</td>
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<td>7/16&quot;</td>
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<td>A1923-AS3</td>
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<td>90°</td>
<td>1.06&quot;</td>
<td>0.312&quot;</td>
<td>.19&quot;</td>
<td>.73&quot;</td>
<td>.39&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>
The history of Lincoln® is similar to that of Alemite®, and both companies are today owned by the same parent organization. While both companies started at essentially the same time, each firm took their own route to commercial success with Alemite focusing on the self-service approach and Lincoln emphasizing fleets and systems. The evolved product lines of each firm reflect their storied pasts, their unique market orientations and an emphasis on innovation.

Lincoln traces its roots to Frank Barks who, after a series of industrial investments, was named president and was a leading shareholder in the Lincoln Steel and Forge Company in St. Louis in 1916. Lincoln was named in honor of the famed Civil War president. The company’s first successful product was a coal car equipped with anti-friction bearings made by the Hyatt Roller Bearing Company. As the firm leveraged its niche in the coal car industry, the first automatic, power-driven grease gun was introduced in 1923, and was known as the Lubrigun™.

Within two years, eight new versions of the Lubrigun were introduced to the automotive market, with an orientation to serving service station mechanics as opposed to individual passenger car owners. More than 65,000 of the popular service station Model #P-25 Lubriguns were sold between 1926 and 1931, and by now a commercial rivalry between Alemite and Lincoln was fast developing.

In 1931, at the height of the Great Depression, Lincoln organized its own national sales force, and between 1931 and 1933, Frank Barks received several patents for lubrication devices. In 1934, Alemite’s then parent company sued Lincoln for patent infringement. It took four years, with the case finally being decided in the U.S. Supreme Court in favor of Lincoln.

The next twenty years were a golden age in company history. Lincoln introduced the Kleenseal® line of grease fittings in 1938, followed by development of the first drum pump that could transfer lubricants from original oil refinery containers. Other innovations such as a portable oil drain, a quick detachable air coupler and complete lubrication systems (known as Centro-Matic®) for the burgeoning service station industry followed.

In the 1950’s, L. C. Rotter, an engineer with Lincoln, wrote a paper entitled, “A Plea for Uniformity in the Packaging of Lubricating Greases,” which is cited as a key stimulant in the standardization and development of the 55 gallon drum.

With a long-standing culture of innovation, Lincoln is well positioned to lead the industry moving forward and G.L. Huyett™ is proud to be part of the team.
Lincoln occupied a bright place in American industrial history during World War II. Besides making special gasoline-powered grease guns for use on tanks by the army; Lincoln converted its facility in St. Louis to make war ordnance productions, including 20mm high explosive projectiles. The firm’s production floor today still retains a wood construction to prevent sparks, and many St. Louis residents recall the red hot bomb casings hanging to cool in the company’s hangar-sized plant on West 40 Highway (now Interstate 70.) Lincoln received the prestigious Army-Navy E-Award five times during the war. As many as 1,000 women worked in the plant at the time.

Lincoln has continued on a path of innovation. Some 50,000,000 Model #815 air couplers were sold by 1942. Later came Powermaster® pumps, the first full-stroke lever grease gun (Model #1242) that could “unfreeze” fittings and a series of innovations in the central lubrication segment, a segment that the company continues to dominate to this day.

Product Offering

Lincoln Industrial is ISO 9001 registered, and the fitting line is QS 9000. Lincoln has the most complete line of automatic lubrication systems found anywhere in the world. Our offering here focuses on grease fittings and accompanying lubrication equipment. If you want something you do not see, please contact our Sales Team for a quote.
1/4"-28 SAE-LT fittings conform to the Society of Automotive Engineers (SAE) thread specifications. This thread type is the most popular thread type for light trucks and cars. It can also be found on industrial machinery and on lawn and garden equipment. A common sight on automobile chassis, 90° angle fittings are often used when overhead access is impractical.

### 5010
- Straight
- 1/4"-28 Taper Thread
- Standard Shank

### 5010-1
- Straight
- 1/4"-28 Taper Thread
- Standard Shank

### 5013
- Straight
- 1/4"-28 Taper Thread
- Long Shank

### 5014
- Straight
- 1/4"-28 Taper Thread
- Extra Long Shank

### 5210
- 45° Angle
- 1/4"-28 Taper Thread
- Standard Shank

### 700396
- 65° Angle
- 1/4"-28 Taper Thread
- Long Shank

### 5410
- 90° Angle
- 1/4"-28 Taper Thread
- Standard Shank

### Table

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
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<td>.47&quot;</td>
<td>3/8&quot;</td>
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</table>

**Common Parts**
- Parts with this designation are in wide distribution.

**GM** General Motors® is a registered trademark of General Motors Corp., Detroit, MI. General Motor®/CH is a registered trademark of General Motors Corp., Zaventem, BE.

**Ford®** Ford is a registered trademark of Ford Motor Company.

**Case IH®** Case IC is a registered trademark of CNH America LLC., Racine, WI.

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Lincoln Industrial® is a registered trademark of SKF Group Headquarters.
1/8”-27 PTF

The larger, stronger threads found on these parts are well suited for industrial uses, such as agriculture and construction equipment. Female threads are intended to be threaded onto pipe or used as a nut for component assembly.

### Technical Drawings are Approximate Actual Size

#### 5000
- Straight
- 1/8”-27 PTF Spl. Extra Short
- Standard Shank

#### 5003
- Straight
- 1/8”-27 PTF Spl. Short
- Extra Long Shank

#### 5505
- Straight
- 1/8”-27 NPTF
- Female Threads

#### 5200
- 45° Angle
- 1/8”-27 PTF Spl. Short
- Standard Shank

#### 5300
- 65° Angle
- 1/8”-27 PTF Spl. Short
- Standard Shank

#### 5400
- 90° Angle
- 1/8”-27 PTF Spl. Short
- Standard Shank

#### 5308
- 65° Angle
- 1/8”-27 PTF Spl. Short
- Long Shank

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (P)</th>
<th>Min. Thread Length (C)</th>
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<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
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<td>.29”</td>
<td>.18”</td>
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<td>7/16”</td>
</tr>
<tr>
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<td>L1607</td>
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<td>7/16”</td>
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<td>L1618</td>
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<td>5200</td>
<td>L1688</td>
<td>1/8”-27 45°</td>
<td>.88”</td>
<td>.28”</td>
<td>.22”</td>
<td>.64”</td>
<td>.39”</td>
<td>.42”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5300</td>
<td>L1612</td>
<td>1/8”-27 65°</td>
<td>.88”</td>
<td>.28”</td>
<td>.22”</td>
<td>.72”</td>
<td>.39”</td>
<td>.50”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5400</td>
<td>L1613</td>
<td>1/8”-27 90°</td>
<td>.84”</td>
<td>.28”</td>
<td>.22”</td>
<td>.73”</td>
<td>.39”</td>
<td>.50”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5308</td>
<td>L1623</td>
<td>1/8”-27 65°</td>
<td>1.19”</td>
<td>.56”</td>
<td>.25”</td>
<td>.72”</td>
<td>.39”</td>
<td>.50”</td>
<td>7/16”</td>
</tr>
</tbody>
</table>

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Lincoln Industrial® is a registered trademark of SKF Group Headquarters.
The larger shanks of 1/4"-18 PTF fittings provide an additional level of strength over 1/8"-27 threads. These fittings can be found on agriculture and construction equipment.

### 1/4"-18 PTF

**5050**

Straight
1/4"-18 NPTF
Standard Shank

**5350**

65° Angle
1/4"-18 NPTF
Standard Shank

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050</td>
<td>L1627</td>
<td>1/4&quot;-18</td>
<td>Straight</td>
<td>.83&quot;</td>
<td>.38&quot;</td>
<td>.34&quot;</td>
<td>—</td>
<td>.52&quot;</td>
<td>—</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>5350</td>
<td>L1629</td>
<td>1/4&quot;-18</td>
<td>65°</td>
<td>1.03&quot;</td>
<td>.38&quot;</td>
<td>.30&quot;</td>
<td>.87&quot;</td>
<td>.53&quot;</td>
<td>.56&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

### 1/4"-28 PARALLEL

1/4"-28 UNF parallel threaded fittings are used in similar applications as 1/4"-28 taper fittings because they thread into the same 1/4"-28 UNF threaded hole. Their parallel thread design allows them to seat flush against the shoulder. For best results, the use of thread sealant is recommended.

**5527**

Straight
1/4"-28 UNF
Standard Shank

**SPECIAL PARTS**

Don't see what you need? We carry a large inventory of fittings and accessories. Call G.L. Huyett today for more information!
**SPIN-DRIVE**

Also referred to as thread forming, spin-drive fittings are designed to be installed by being driven or spun into an untapped hole, thus eliminating the costly process of tapping. Zinc clear heads provide easy identification for Lincoln® brand angled spin-drive fittings.

**PLEASE NOTE**

HOLE SIZES PROVIDED ARE FOR REFERENCE.
TESTING IS REQUIRED TO ENSURE RELIABILITY IN THE FIELD.
SPIN-DRIVE FITTINGS ARE NOT RECOMMENDED FOR BRITTLE MATERIALS.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Thread</th>
<th>Angle (°)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>205010</td>
<td>1/4&quot;-28</td>
<td>Straight</td>
<td>.56&quot;</td>
<td>.19&quot;</td>
<td>.10&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
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<tr>
<td>205210</td>
<td>1/4&quot;-28</td>
<td>45°</td>
<td>.81&quot;</td>
<td>.20&quot;</td>
<td>.10&quot;</td>
<td>.58&quot;</td>
<td>.39&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>205410</td>
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<td>.16&quot;</td>
<td>.66&quot;</td>
<td>.47&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>205000</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.63&quot;</td>
<td>.25&quot;</td>
<td>.14&quot;</td>
<td>.66&quot;</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>247235</td>
<td>1/8&quot;-27</td>
<td>Straight</td>
<td>.70&quot;</td>
<td>.33&quot;</td>
<td>.14&quot;</td>
<td>—</td>
<td>—</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>205200</td>
<td>1/8&quot;-27</td>
<td>45°</td>
<td>.84&quot;</td>
<td>.20&quot;</td>
<td>.14&quot;</td>
<td>.65&quot;</td>
<td>.42&quot;</td>
<td>7/16&quot;</td>
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<tr>
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<td>.76&quot;</td>
<td>.20&quot;</td>
<td>.14&quot;</td>
<td>.74&quot;</td>
<td>.51&quot;</td>
<td>7/16&quot;</td>
</tr>
</tbody>
</table>

**NOTE:**

1/4"-28 APPROXIMATE HOLE SIZE 0.230-0.235"
1/8"-27 APPROXIMATE HOLE SIZE 0.373-0.380"

<table>
<thead>
<tr>
<th>Common Parts</th>
<th>General Motors®</th>
<th>General Motors®</th>
<th>Ford®</th>
<th>Case IH®</th>
</tr>
</thead>
<tbody>
<tr>
<td>GM</td>
<td>L3038</td>
<td>L3054</td>
<td>L1720</td>
<td>L1723</td>
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<tr>
<td>GM/CH</td>
<td>L247235</td>
<td>L247235</td>
<td>L1724</td>
<td>L1724</td>
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<tr>
<td>GM/CH/94110122</td>
<td>L247235</td>
<td>L247235</td>
<td>L1724</td>
<td>L1724</td>
</tr>
<tr>
<td>GM/CH/9411022</td>
<td>L3038</td>
<td>L3054</td>
<td>L1720</td>
<td>L1723</td>
</tr>
</tbody>
</table>

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**Drive Type**

Drive type fittings, like spin-drive fittings, are specifically designed for use in production line environments. Installation is achieved by simply driving the fitting into an unthreaded hole with a specially designed drive tool.

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. Huyett Order #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>5033</td>
<td>L1728</td>
<td>≈ 3/16&quot; Drill</td>
<td>Straight</td>
<td>.51&quot;</td>
<td>.23&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>Yes</td>
</tr>
<tr>
<td>700375</td>
<td>L3005</td>
<td>≈ 3/16&quot; Drill</td>
<td>Straight</td>
<td>.44&quot;</td>
<td>.13&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>No</td>
</tr>
<tr>
<td>700504</td>
<td>L700504</td>
<td>≈ 3/16&quot; Drill</td>
<td>Straight</td>
<td>.56&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
<td>Yes</td>
</tr>
<tr>
<td>5385</td>
<td>L1646</td>
<td>≈ 3/16&quot; Drill</td>
<td>65°</td>
<td>.72&quot;</td>
<td>.22&quot;</td>
<td>.69&quot;</td>
<td>.50&quot;</td>
<td>3/8&quot; Hex</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY.**

The exact drill size for drive type fittings may vary with your application and material. Testing is recommended to ensure reliability in the field.

Drive type fittings are not recommended for high-pressure applications.

**Drive Type Fittings**

- **Straight Drive Type**
  - ≈ 3/16" Drill Size
  - Standard Shank
- **Long Shank**
- **65° Angle Drive Type**
  - ≈ 3/16" Drill Size
  - Standard Shank

**Common Parts**

Parts with this designation are in wide distribution.

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**Drive Type**

Drive type grease fittings have circumferential serrations around the shank providing a tight seal against leakage when installed properly. Testing is recommended to ensure proper fit with your application material. Please take into account production tolerances when testing drill sizes.

<table>
<thead>
<tr>
<th>Lincoln Item #</th>
<th>G.L. Huyett Order #</th>
<th>Drill Diameter</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Overall Width (D)</th>
<th>Swing Clearance (G)</th>
<th>Shoulder Diameter (H)</th>
<th>Ball Check?</th>
</tr>
</thead>
<tbody>
<tr>
<td>5318</td>
<td>L1744</td>
<td>~ 1/4&quot; Drill</td>
<td>65°</td>
<td>.77&quot;</td>
<td>.28&quot;</td>
<td>.69&quot;</td>
<td>.50&quot;</td>
<td>3/8&quot; Hex</td>
<td>Yes</td>
</tr>
<tr>
<td>5031</td>
<td>L1608</td>
<td>~ 5/16&quot; Drill</td>
<td>Straight</td>
<td>.55&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>3/8&quot;</td>
<td>Yes</td>
</tr>
<tr>
<td>5036</td>
<td>L5036</td>
<td>~ 3/8&quot; Drill</td>
<td>Straight</td>
<td>.63&quot;</td>
<td>.25&quot;</td>
<td>—</td>
<td>—</td>
<td>7/16&quot;</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Visit your Account Order History at huyett.com to download Free Material, Compliance, and RoHS/REACH Certifications along with:

- Order Status
- Expected Ship Date
- Order Tracking Info
- Your Favorites
Flush type fittings are ideal for use in applications where a protruding greasing nipple may be impractical. The compact design of the flush type fitting allows for use on shafts, pulleys and other rotating assemblies.

**Flush Type**

<table>
<thead>
<tr>
<th>700502A</th>
<th>Straight Flush Type</th>
<th>10-32 UNF</th>
</tr>
</thead>
<tbody>
<tr>
<td>700502</td>
<td>Straight Flush Drive Type</td>
<td>≈ 1/4&quot; Drill Size</td>
</tr>
</tbody>
</table>

**Button Head - Standard**

Button head fittings are popular in rugged applications such as conveyors, mining equipment and agricultural equipment. The flat head design minimizes damage from flying debris.

<table>
<thead>
<tr>
<th>5701</th>
<th>Button Head - Standard</th>
<th>1/8&quot;-27 NPTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>5706</td>
<td>Button Head - Standard</td>
<td>1/4&quot;-18 PTF SAE Short</td>
</tr>
<tr>
<td>5711</td>
<td>Button Head - Standard</td>
<td>3/8&quot;-18 NPTF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex /Shoulder Diameter (H)</th>
<th>Valve System</th>
</tr>
</thead>
<tbody>
<tr>
<td>700502</td>
<td>L7502</td>
<td>10-32</td>
<td>.34&quot;</td>
<td>.23&quot;</td>
<td>.15&quot;</td>
<td>.18&quot;</td>
<td>1/4&quot;</td>
<td>Slotted</td>
</tr>
<tr>
<td>700502</td>
<td>L1885</td>
<td>—</td>
<td>≈ 1/4&quot;</td>
<td>.28&quot;</td>
<td>.23&quot;</td>
<td>—</td>
<td>—</td>
<td>5/16&quot;</td>
</tr>
</tbody>
</table>

For more information, please see pg. 38
PRESSURE RELIEF

Pressure relief valves release excessive pressure which may accumulate during operation of a bearing housing or gearbox. Recommended installation is above fluid level.

### Diagram
Relief - Side Vent
1/8”-27 PTF Spl. Short

### How They Work
As internal pressures rise, the plunger opens, allowing pressure to vent.

### Table

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Thread</th>
<th>Relief Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5677</td>
<td>LS67723</td>
<td>1/8”-27</td>
<td>1-5 psi</td>
<td>.50”</td>
<td>.28”</td>
<td>.17”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5678</td>
<td>LS678</td>
<td>1/8”-27</td>
<td>7.5-15 psi</td>
<td>.50”</td>
<td>.28”</td>
<td>.17”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5679</td>
<td>LS679</td>
<td>1/8”-27</td>
<td>15-25 psi</td>
<td>.50”</td>
<td>.28”</td>
<td>.17”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5680</td>
<td>LS680</td>
<td>1/8”-27</td>
<td>45-80 psi</td>
<td>.50”</td>
<td>.28”</td>
<td>.17”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
</tbody>
</table>

### Pressure & Flow Control

Lincoln® offers a variety of fittings for special purposes. Leak Proof fittings are designed for applications where the prevention of lubricant leakage is critical, such as in textile & food processing equipment. Safety vent fittings have a groove cut into the threads, which allows excess grease to escape to prevent over-pressurization.

#### 700506
Straight Leak Proof
1/8”-27 NPTF
10,000 psi

#### 5099
Straight Safety Vent
1/8”-27 PTF Spl. Extra Short
Long Shank

#### 5698
Straight Breather
1/8”-27 PTF Spl. Short

### Table

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Max Back Pressure</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Thread Diameter (F)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>700506</td>
<td>L1634B</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>10,000 psi</td>
<td>1.00”</td>
<td>.51”</td>
<td>.27”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5099</td>
<td>L1930</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>—</td>
<td>.64”</td>
<td>.28”</td>
<td>.20”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
<tr>
<td>5698</td>
<td>L301370</td>
<td>1/8”-27</td>
<td>Straight</td>
<td>—</td>
<td>.78”</td>
<td>.28”</td>
<td>.19”</td>
<td>.39”</td>
<td>7/16”</td>
</tr>
</tbody>
</table>
STAINLESS STEEL

Stainless steel fittings offer an additional level of corrosion resistance and are suited for food processing equipment, marine applications and sewage disposal systems. Type 303 stainless steel fittings are manufactured with stainless steel balls and springs for thorough corrosion resistance. In addition to providing excellent corrosion resistance, stainless steel fittings also perform well in extreme temperature ranges.

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**Common Parts**
Parts with this designation are in wide distribution.

---

**5010-9**
Straight - Stainless
1/4"-28 Taper Thread
Standard Shank

**5410-9**
90° Angle - Stainless
1/4"-28 Taper Thread
Standard Shank

**5000-9**
Straight - Stainless
1/8"-27 PTF Spl. Extra Short
Standard Shank

**5527-9**
Straight - Stainless
1/4"-28 UNF
Standard Shank

**5033-9**
Straight Drive Type - Stainless
≈ 3/16" Drill Size
Plain Shank

---

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REVISED 03-19
Lincoln® offers grease fittings in popular metric sizes. All metric fittings shown have tapered threads. Smaller 6.0 - 8.0 mm threads are commonly used in automotive applications. The larger, stronger 10.0 mm threads are most commonly used on industrial machinery, construction or agricultural equipment. Custom sizes are available on request. Call our Sales Team for more information.

**Technical Drawings are Approximate Actual Size**

### LINCOLN®

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Min. Thread Length (C)</th>
<th>Overall Width (D)</th>
<th>Thread Diameter (F)</th>
<th>Swing Clearance (G)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5175</td>
<td>L2106</td>
<td>M6 x 1.0</td>
<td>Straight</td>
<td>15.9 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>6.0 mm</td>
<td>—</td>
<td>7.0 mm</td>
</tr>
<tr>
<td>5176</td>
<td>L2107</td>
<td>M6 x 1.0</td>
<td>45°</td>
<td>22.2 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>14.0 mm</td>
<td>6.0 mm</td>
<td>9.9 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>5177</td>
<td>L2108</td>
<td>M6 x 1.0</td>
<td>90°</td>
<td>17.9 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>19.0 mm</td>
<td>6.0 mm</td>
<td>14.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>5178</td>
<td>L2103</td>
<td>M8 x 1.0</td>
<td>Straight</td>
<td>14.7 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>8.0 mm</td>
<td>—</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>5179</td>
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<td>M8 x 1.0</td>
<td>45°</td>
<td>22.2 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>14.0 mm</td>
<td>8.0 mm</td>
<td>9.9 mm</td>
<td>9.0 mm</td>
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<tr>
<td>5180</td>
<td>L2105</td>
<td>M8 x 1.0</td>
<td>90°</td>
<td>17.9 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>19.0 mm</td>
<td>8.0 mm</td>
<td>14.0 mm</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>5181</td>
<td>L2109</td>
<td>M10 x 1.0</td>
<td>Straight</td>
<td>15.5 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>—</td>
<td>10.0 mm</td>
<td>—</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>5182</td>
<td>L2110</td>
<td>M10 x 1.0</td>
<td>45°</td>
<td>23.8 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>10.0 mm</td>
<td>10.0 mm</td>
<td>16.0 mm</td>
<td>11.0 mm</td>
</tr>
<tr>
<td>5183</td>
<td>L2111</td>
<td>M10 x 1.0</td>
<td>90°</td>
<td>18.7 mm</td>
<td>5.6 mm</td>
<td>3.7 mm</td>
<td>17.9 mm</td>
<td>10.0 mm</td>
<td>12.7 mm</td>
<td>11.0 mm</td>
</tr>
</tbody>
</table>
Extensions are often used to provide additional clearance for grease fittings in hard-to-reach areas. Special metric-to-standard adapters allow the use of more common American thread types in metric threaded holes.

**DIAGRAM 1**
Straight Adapter
Male x Female

**DIAGRAM 2**
Straight Adapter
Male x Female

**DIAGRAM 3**
Straight Adapter
Male x Female

**DIAGRAM 4**
Straight Extension
Male x Female

---

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>103307E</td>
<td>L103307</td>
<td>Dia. 1</td>
<td>M6 x 1.0 (M)</td>
<td>1/4&quot;-28 SAE-LT (F)</td>
<td>Straight</td>
<td>.43&quot;</td>
<td>9.0 mm</td>
</tr>
<tr>
<td>103309E</td>
<td>L103309</td>
<td>Dia. 1</td>
<td>M10 x 1.0 (M)</td>
<td>1/4&quot;-28 SAE-LT (F)</td>
<td>Straight</td>
<td>.32&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>103308E</td>
<td>L103308</td>
<td>Dia. 2</td>
<td>M8 x 1.0 (M)</td>
<td>1/4&quot;-28 SAE-LT (F)</td>
<td>Straight</td>
<td>.45&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>20024 L51942</td>
<td>Dia. 3</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.87&quot;</td>
<td>1/2&quot;</td>
<td></td>
</tr>
<tr>
<td>11229 L43760</td>
<td>Dia. 3</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.19&quot;</td>
<td>5/8&quot;</td>
<td></td>
</tr>
<tr>
<td>10049 L301198</td>
<td>Dia. 3</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.44&quot;</td>
<td>7/8&quot;</td>
<td></td>
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<tr>
<td>12989 L12989</td>
<td>Dia. 3</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (F)</td>
<td>Straight</td>
<td>1.75&quot;</td>
<td>1&quot;</td>
<td></td>
</tr>
<tr>
<td>10182 L43763</td>
<td>Dia. 4</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>Straight</td>
<td>.94&quot;</td>
<td>9/16&quot;</td>
<td></td>
</tr>
<tr>
<td>11348 L11348</td>
<td>Dia. 4</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.97&quot;</td>
<td>3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

---

Common Parts
Parts with this designation are in wide distribution.

General Motors®
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GM/CH
General Motors®/CH is a registered trademark of General Motors Corp., Racine, WI.

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Case IH®
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Lincoln® offers a wide variety of threaded adapters, extensions and bushings in a variety of materials and plating types. Adapters are used in order to retrofit new components to older assemblies, and to more common thread types.

### ADAPTERS

#### MALE x MALE

**Technical Drawings are Approximate Actual Size**

<table>
<thead>
<tr>
<th>Lincoln Item #</th>
<th>G.L. Huyett Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Male Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10130</td>
<td>L10130</td>
<td>Dia. 1</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>1&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>10462</td>
<td>L327033</td>
<td>Dia. 1</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.41&quot;</td>
<td>9/16&quot;</td>
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<tr>
<td>10462-9</td>
<td>L327033S</td>
<td>Dia. 1</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.41&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>10540</td>
<td>L41729</td>
<td>Dia. 1</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.44&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>11197</td>
<td>L51888</td>
<td>Dia. 1</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>Straight</td>
<td>1.81&quot;</td>
<td>7/8&quot;</td>
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<tr>
<td>10772</td>
<td>L10772</td>
<td>Dia. 2</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>1.18&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>10773</td>
<td>L10773</td>
<td>Dia. 2</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.45&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>11107</td>
<td>L11107</td>
<td>Dia. 2</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>1.7&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>12106</td>
<td>L12106</td>
<td>Dia. 2</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/4&quot;-14 NPTF (M)</td>
<td>Straight</td>
<td>2.13&quot;</td>
<td>1-1/16</td>
</tr>
<tr>
<td>14727</td>
<td>L14727</td>
<td>Dia. 3</td>
<td>3/4&quot;-14 NPTF (M)</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>Straight</td>
<td>2.07&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>67371</td>
<td>L67371</td>
<td>Dia. 4</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>.75&quot;</td>
<td>—</td>
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<tr>
<td>10199</td>
<td>L10199</td>
<td>Dia. 5</td>
<td>1/2&quot;-27 SPL-PTF (M)</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>10202</td>
<td>L10202</td>
<td>Dia. 6</td>
<td>1/2&quot;-27 SPL-PTF (M)</td>
<td>1/2&quot;-27 SPL-PTF (M)</td>
<td>Straight</td>
<td>1.19&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>10198</td>
<td>L10198</td>
<td>Dia. 6</td>
<td>1/4&quot;-18 NPTF (M)</td>
<td>1/2&quot;-27 SPL-PTF (M)</td>
<td>Straight</td>
<td>1.31&quot;</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>
ELBOWS

Angled elbows are used for joining threads in hard-to-reach areas such as near corners and other obstacles. Zinc plated steel is standard, though alternate materials are available on request.

### DIAGRAM 1
90° Angle Elbow
Male x Female

### DIAGRAM 2
90° Angle Elbow
Male x Female

### DIAGRAM 3
90° Angle Elbow
Male x Female

### DIAGRAM 4
45° Angle Elbow
Male x Female

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20026</td>
<td>L51943</td>
<td>Dia. 1</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 PTF SAE Short (F)</td>
<td>90°</td>
<td>.81&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>20029</td>
<td>L44701</td>
<td>Dia. 2</td>
<td>1/8&quot;-27 PTF SAE Short (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.00&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>20031</td>
<td>L316071</td>
<td>Dia. 2</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>.82&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>20031</td>
<td>L316071</td>
<td>Dia. 2</td>
<td>1/8&quot;-18 PTF SAE Short (M)</td>
<td>1/4&quot;-18 NPTF (F)</td>
<td>90°</td>
<td>1.34&quot;</td>
<td>11/16&quot; sq.</td>
</tr>
<tr>
<td>13129</td>
<td>L13129</td>
<td>Dia. 3</td>
<td>1/8&quot;-27 NPTF (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>90°</td>
<td>1.50&quot;</td>
<td>5/8&quot; sq.</td>
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<tr>
<td>247616</td>
<td>L247616</td>
<td>Dia. 4</td>
<td>1/4&quot;-28 SAE-LT (M)</td>
<td>1/8&quot;-27 PTF SAE Short (F)</td>
<td>45°</td>
<td>1.06&quot;</td>
<td>1/2&quot; sq.</td>
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<tr>
<td>20028</td>
<td>L43716</td>
<td>Dia. 4</td>
<td>1/8&quot;-27 PTF SAE Short (M)</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>45°</td>
<td>1.00&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
</tbody>
</table>

**Design Feature**

Elbows allow the installer to change the direction of a grease fitting for easier access or to allow clearance over or around an obstruction.
**BUSHINGS**

Often referred to as “reducer bushings,” standard threaded bushings are used to reduce the inside diameter of a threaded hole without adding significant length to the threaded component. Alternate platings and materials are available by request.

### DIAGRAM 1

**Straight Bushing**  
**Male x Female**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Diagram #</th>
<th>Male Thread (Y)</th>
<th>Female Thread (X)</th>
<th>Angle (E)</th>
<th>Overall Length (A)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67069</td>
<td>L131586</td>
<td>Dia. 1</td>
<td>1/2&quot;-14 NPTF (M)</td>
<td>3/8&quot;-18 NPTF (F)</td>
<td>Straight</td>
<td>1.12&quot;</td>
<td>7/8&quot;</td>
</tr>
</tbody>
</table>

| 10461          | L45120              | Dia. 2    | 1/4"-18 NPTF (M) | 1/8"-27 NPTF (F)  | Straight  | .75"               | 9/16"  |
| 12080          | L51891              | Dia. 2    | 1/2"-14 NPTF (M) | 1/4"-18 NPTF (F)  | Straight  | 1.12"              | 7/8"   |
| 20011          | L40996              | Dia. 2    | 3/8"-18 NPTF (M) | 1/4"-18 NPTF (F)  | Straight  | .72"               | 3/4"   |
| 67198          | L320356             | Dia. 2    | 3/4"-14 NPTF (M) | 3/8"-18 NPTF (F)  | Straight  | .94"               | 1-1/16"|
| 12287          | L12287              | Dia. 2    | 1/2"-14 NPTF (M) | 1/2"-27 NPTF (F)  | Straight  | 1.13"              | 15/16" |
| 67171          | L67171              | Dia. 2    | 3/4"-14 NPTF (M) | 1/2"-14 NPTF (F)  | Straight  | .96"               | 1-1/16"|

### DIAGRAM 2

**Straight Bushing**  
**Male x Female**

**DESIGN FEATURE**

Bushings are threaded on both the inside and outside and are used for joining parts with different diameters together.
**PLUGS - HEX HEAD**

Pipe plugs are commonly used to seal holes in water jackets, oil galleys, vacuum manifolds, header blocks and a variety of other applications. They may be installed in place of a removed grease fitting.

**12511**

Plug - Hex Head 1/8"-27 PTF Spl. Extra Short

---

**PLUGS - THREAD FORMING**

Thread forming plugs may be installed into a non-threaded hole, saving the installer the costly process of tapping. The specially designed thread profile cold-form their own threads during installation resulting in a leak-free seal.

**700337**

Plug - Hex Head 1/4"-28 Thread Forming

---

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread (Y)</th>
<th>Overall Length (A)</th>
<th>Drive (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12511</td>
<td>L12511</td>
<td>1/8&quot;-27 PTF Spl. Extra Short</td>
<td>0.44&quot;</td>
<td>7/16&quot; Hex</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Thread (Y)</th>
<th>Overall Length (A)</th>
<th>Drive (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>700337</td>
<td>L700337</td>
<td>1/4&quot;-28 Thread Forming</td>
<td>0.31&quot;</td>
<td>9/32&quot; Hex</td>
</tr>
</tbody>
</table>
BULKHEAD CONNECTORS

Bulkhead connectors allow for the passage of a lubrication line through a bulkhead or other obstructions. A grease fitting may be installed to allow a remote access point, or an additional tubing connector may be added to continue the line.

<table>
<thead>
<tr>
<th>Item #</th>
<th>G.L. HUYETT</th>
<th>Thread (X)</th>
<th>Thread (Y)</th>
<th>Thread (Z)</th>
<th>Angle</th>
<th>Overall Length (A)</th>
<th>Shank Length (B)</th>
<th>Hex (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13154</td>
<td>L13154</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>1/8&quot;-27 NPSM (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.88&quot;</td>
<td>.38&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>13155</td>
<td>L13155</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>1/8&quot;-27 NPSM (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>90°</td>
<td>1.00&quot;</td>
<td>.38&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>14054</td>
<td>L14054</td>
<td>1/8&quot;-27 NPTF (F)</td>
<td>1/8&quot;-27 NPSM (M)</td>
<td>1/4&quot;-28 UNF (F)</td>
<td>Straight</td>
<td>.88&quot;</td>
<td>.44&quot;</td>
<td>1/2&quot; sq.</td>
</tr>
<tr>
<td>51055</td>
<td>L51055</td>
<td>—</td>
<td>1/8&quot;-27 NPSM</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>11/16&quot;</td>
</tr>
</tbody>
</table>

**DESIGN FEATURE**

When used with the 51055 Bulkhead Connector Nut, bulkhead connectors allow convenient passage of lubrication lines through bulkheads and other barriers.
These grease guns are designed for lubricating equipment that is punished by day-in and day-out use on heavy industrial applications. These standard duty guns have a cast iron head, precision plunger and heavy-duty follower spring.

### 1142
Lever Grease Gun - Standard Duty
14.5 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
7,000 psi

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1142</td>
<td>L1142</td>
<td>Lever - Standard Duty</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>4.0 lbs.</td>
</tr>
<tr>
<td>1147 [x]</td>
<td>L1147</td>
<td>Lever - Standard Duty w/ Hose</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>4.1 lbs.</td>
</tr>
<tr>
<td>1151 [x]</td>
<td>L1151</td>
<td>Lever - High Capacity</td>
<td>14.5 oz.</td>
<td>21 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>4.4 lbs.</td>
</tr>
</tbody>
</table>

*Common Parts
Parts with this designation are in wide distribution.*

*General Motors® is a registered trademark of General Motors Corp., Detroit, MI.
Case IH® is a registered trademark of CNH America LLC., Racine, WI.*
The 1148 model grease gun is the premium version of the 1142 on page 262. It comes standard with a comfortable vinyl handle grip and a variable stroke head with dual grease inlet ports which allow users to generate full pressure with only partial strokes.

### Specifications

**Lever Grease Gun - Heavy Duty**

- 14.5 oz. Cartridge Capacity
- 1/8"-27 NPT with Pipe & Coupler
- 7,000 psi

### Technical Drawings

**Variable Stroke / Pressure:**
- Short stroke - high pressure
- Long stroke - high volume

**Non-Slip Textured Finish**

**Head Design:**
- Incorporates an air bleeder valve

**Cartridge Load**

**Suction Load**

**Variable Stroke**

---

**Table:**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1148</td>
<td>L1148</td>
<td>Lever - Heavy Duty</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>4.2 lbs.</td>
</tr>
</tbody>
</table>
The Lincoln® brand high pressure grease gun is equipped with a toggle mechanism for compound leverage that provides high-pressure pumping with little effort. This gun also has a filler nipple for fast refill. The high pressure gun is ideal for use in agricultural, automotive and industrial applications.

**1035**
Lever Grease Gun - High Pressure  
21 oz. Bulk Capacity  
1/8"-27 NPT with Pipe & Coupler  
7,000 psi

**1037**
Lever Grease Gun - High Volume  
21 oz. Bulk Capacity  
1/8"-27 NPT with Pipe & Coupler  
7,000 psi

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1035</td>
<td>L1035</td>
<td>Lever - High Pressure</td>
<td>14.5 oz.</td>
<td>21 oz.</td>
<td>1 oz. / 25 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>6.4 lbs.</td>
</tr>
<tr>
<td>1037</td>
<td>L1037</td>
<td>Lever - High Volume</td>
<td>14.5 oz.</td>
<td>21 oz.</td>
<td>1 oz. / 9 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>7.0 lbs.</td>
</tr>
</tbody>
</table>

Lincoln Industrial® is a registered trademark of SKF Group Headquarters.
Dual pressure grease guns are engineered with a locking slide pin which allows users to quickly and easily convert the gun from high pressure / low volume mode to low pressure / high volume in accordance with their specific application. The rigid extension swivels 360° for servicing hard-to-reach areas.

### Lever Grease Gun - Dual Pressure

- **14.5 oz. Cartridge Capacity**
- **1/8''-27 NPT with Pipe & Coupler**
- **7,000 / 4,000 psi**

**Specifications**

<table>
<thead>
<tr>
<th>Item #</th>
<th>Order #</th>
<th>Grease Gun Series</th>
<th>Cart. Cap.</th>
<th>Bulk Cap</th>
<th>Low Pressure Delivery</th>
<th>High Pressure Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1013</td>
<td>L1013</td>
<td>Lever - Dual Pressure</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 18 strokes</td>
<td>1 oz. / 33 strokes</td>
<td>1/8''-27 NPT</td>
<td>7,000 psi / 4,000 psi</td>
<td>4.6 lbs.</td>
</tr>
<tr>
<td>1145</td>
<td>L1145</td>
<td>Lever - Dual Pressure</td>
<td>14.5 oz.</td>
<td>21 oz.</td>
<td>1 oz. / 18 strokes</td>
<td>1 oz. / 33 strokes</td>
<td>1/8''-27 NPT</td>
<td>7,000 psi / 4,000 psi</td>
<td>5.0 lbs.</td>
</tr>
</tbody>
</table>

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The Lincoln® brand standard pistol type grease gun is one of the most popular grease guns. Pistol-grip grease guns are especially designed for use in confined spaces or where access to the grease nipple is restricted.

**1133**

Pistol Grease Gun - Standard
14.5 oz. Cartridge Capacity
1/8"-27 NPT with Hose & Coupler
6,000 psi

**CARTRIDGE LOAD**
**SUCTION LOAD**

**TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1133</td>
<td>L1133</td>
<td>Pistol Grip - Standard w/ Hose</td>
<td>14.5 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>6,000 psi</td>
<td>3.4 lbs.</td>
<td></td>
</tr>
<tr>
<td>1132</td>
<td>L1132</td>
<td>Pistol Grip - Standard</td>
<td>14.5 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>6,000 psi</td>
<td>3.4 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

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The 1134 has a heavy-duty pistol-grip handle to prevent jamming during service. This gun has the variable stroke/pressure design where a short stroke provides high pressure and a long stroke produces high volumes of lubricant. The cast aluminium head withstands extreme environments.

### 1134

**Pistol Grease Gun - Heavy Duty**

14.5 oz. Cartridge Capacity  
1/8”-27 NPT with Pipe, Hose & Coupler  
7,500 psi

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1134</td>
<td>L1134</td>
<td>Pistol Grip - Heavy Duty w/ Pipe &amp; Hose</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8”-27 NPT</td>
<td>7,500 psi</td>
<td>4.0 lbs.</td>
</tr>
</tbody>
</table>

- **Head incorporates a bulk loader valve, which doubles as an air bleeder.**
- **Comes with 18” flexible hose and 6” extension with coupler.**
- **Non-slip textured finish.**
- **7,500 PSI per 33 strokes.**

**Technical Drawings are Approximate Actual Size.**

![Diagram of the 1134 Grease Gun](image-url)
With the touch of a button, the Lincoln® brand cordless grease guns deliver lubricants in a steady stream at up to 7,500 psi. The 1442 has a versatile two-speed trigger which allows users to deliver a higher volume of grease at a lower pressure and the built-in stroke indicator allows easy output measurement.

**1442**
Cordless Grease Gun - 14.4 volt
14.5 oz. Cartridge Capacity
7/16" - 28 UNEF with Hose & Coupler
7,500 psi

**1242**
Cordless Grease Gun - 12 volt
14.5 oz. Cartridge Capacity
7/16" - 28 UNEF with Hose & Coupler
6,000 psi

**Specifications**

<table>
<thead>
<tr>
<th>Lincoln Item #</th>
<th>G.L. Huyett Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1442</td>
<td>L1442</td>
<td>Cordless - 14.4 volt</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>8.5 oz / min. 3.0 oz / min.</td>
<td>7/16&quot; - 28 UNEF</td>
<td>7,500 psi</td>
<td>14.1 lbs.</td>
</tr>
<tr>
<td>1242</td>
<td>L1242</td>
<td>Cordless - 12 volt</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>2.9 oz / min.</td>
<td>7/16&quot; - 28 UNEF</td>
<td>6,000 psi</td>
<td>18.3 lbs.</td>
</tr>
</tbody>
</table>

**Battery Options**

<table>
<thead>
<tr>
<th>Lincoln Item #</th>
<th>G.L. Huyett Order #</th>
<th>Description</th>
<th>Volts</th>
<th>Battery Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1401</td>
<td>L1401</td>
<td>Replacement Battery</td>
<td>14.4 volt</td>
<td>NiCd Battery</td>
</tr>
<tr>
<td>1201</td>
<td>L1201</td>
<td>Replacement Battery</td>
<td>12 volt</td>
<td>NiCd Battery</td>
</tr>
</tbody>
</table>
The 1162 is designed with a variable speed trigger, which combines superior grease flow with convenience of automatic operation. This grease gun is ideal for use in factory maintenance, agricultural applications, fleet service or use on trucks connected to vehicle air brake compressors.

**1162**

**Pneumatic Grease Gun - Continuous Flow**
14.5 oz. Cartridge Capacity
1/8”-27 NPT with Hose & Coupler
up to 6,000 psi

<table>
<thead>
<tr>
<th>LINCabama Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Cap.</th>
<th>Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1162</td>
<td>L1162</td>
<td>Pneumatic - Heavy Duty</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>10 oz. / min.</td>
<td>1/8”-27 NPT</td>
<td>6,000 psi</td>
<td>5.6 lbs.</td>
</tr>
</tbody>
</table>

**Features**
- **Patented Ultra Low Wear Air Motor**
- **Variable Speed Trigger**
- **Lightweight Construction and Ergonomic Design for Easy Servicing**
- **30" High Pressure Flexible Hose with Spring Guard**
- **6,000 PSI per 1 Minute**

**Common Parts**
- Parts with this designation are in wide distribution.

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- General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**General Motors®/CH**
- General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

**Ford®**
- Ford® is a registered trademark of Ford Motor Company.

**Case IH®**
- Case IH® is a registered trademark of CNH America LLC., Racine, WI.

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Clear grease gun barrels help users quickly and easily identify grease gun contents with a glance. This prevents mixing of incompatible greases. Developed for military maintenance support, these tubes are proven to be durable.

### 1142CLR
Lever Grease Gun - Heavy Duty Clear Barrel
14.5 oz. Cartridge Capacity  
1/8"-27 NPT with Pipe & Coupler  
7,000 psi

### 1148CLR
Lever Grease Gun - Heavy Duty Clear Barrel  
14.5 oz. Cartridge Capacity  
1/8"-27 NPT with Pipe & Coupler  
7,000 psi

### 1134CLR
Pistol Grease Gun - Heavy Duty Clear Barrel  
14.5 oz. Cartridge Capacity  
1/8"-27 NPT with Hose, Pipe & Coupler  
7,000 psi

### 1100CLR
Clear Barrel Only  
14.5 oz. Cartridge Capacity

---

**Table:**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Grease Gun Series</th>
<th>Cartridge Capacity</th>
<th>Bulk Capacity</th>
<th>Stroke Delivery</th>
<th>Pipe Extension Threads</th>
<th>Maximum Pressure</th>
<th>Ship Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1142CLR</td>
<td>L1142CLR</td>
<td>Lever - Heavy Duty Clear Barrel</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>3.7 lbs.</td>
</tr>
<tr>
<td>1148CLR</td>
<td>L1148CLR</td>
<td>Lever - Heavy Duty Clear Barrel</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>4.0 lbs.</td>
</tr>
<tr>
<td>1134CLR</td>
<td>L1134CLR</td>
<td>Pistol - Heavy Duty Clear Barrel</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>1 oz. / 33 strokes</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>3.8 lbs.</td>
</tr>
<tr>
<td>1100CLR</td>
<td>L11000CLR</td>
<td>Heavy Duty Clear Barrel Only</td>
<td>14.5 oz.</td>
<td>16 oz.</td>
<td>—</td>
<td>—</td>
<td>0.9 lbs.</td>
<td></td>
</tr>
</tbody>
</table>

---

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Lincoln’s® cordless series of grease guns are also available with an optional clear barrel. Like all of Lincoln’s® clear barrels, they are constructed of high strength clear tubing with aircraft aluminum adapters. The 14.4 volt gun developed a maximum 7,500 psi with its multi-speed output.

**1440CLR**
Cordless Grease Gun - Heavy Duty Clear Barrel
14.5 oz. Cartridge Capacity
1/8"-27 NPT with Hose & Coupler
7,500 psi

**1100CLR**
Clear Barrel Only
14.5 oz. Cartridge Capacity
High volume pneumatic grease pumps are essential for professional shops which dispense large quantities of grease. The pneumatic pump assemblies may be stored remotely in a storage room with grease supplies through overhead supply lines, or they may be purchased with wheels for maximum mobility. Drums not included.

<table>
<thead>
<tr>
<th>917</th>
<th>50:1 Pneumatic Grease Pump Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fits 120 lb. drum</td>
<td></td>
</tr>
<tr>
<td>7,500 psi</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>989</th>
<th>50:1 Pneumatic Grease Pump Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fits 25-50 lb. drum</td>
<td></td>
</tr>
<tr>
<td>7,500 psi</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6917</th>
<th>50:1 Pneumatic Grease Pump - Deluxe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fits 120 lb. drum</td>
<td></td>
</tr>
<tr>
<td>7,500 psi</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>9917</th>
<th>50:1 Pneumatic Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fits 120 lb. drum</td>
<td></td>
</tr>
<tr>
<td>7,500 psi</td>
<td></td>
</tr>
</tbody>
</table>
Replacement parts for pneumatic grease pump assemblies are available. The 81387 swivel is constructed of rugged zinc plated steel and is ideal for placement between a control valve and hose to prevent binding or twisting of the hose.

**Grease Control Valve**
- 1/4" NPT Inlet
- 1/8" NPT Outlet
- 7,500 psi

**Universal Swivel**
- 1/2"-27 UNS Inlet
- 1/4" NPT Outlet
- 7,500 psi

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Inlet Thread</th>
<th>Outlet Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>740</td>
<td>L740</td>
<td>Grease Control Valve</td>
<td>1/4&quot; NPT</td>
<td>1/8&quot; NPT</td>
<td>7,500 psi</td>
</tr>
<tr>
<td>81387</td>
<td>L81387</td>
<td>Universal Swivel</td>
<td>1/2&quot;-27 UNS</td>
<td>1/4&quot; NPT</td>
<td>7,500 psi</td>
</tr>
</tbody>
</table>

**Bulk Loader Adapters**
Bulk loader adapters connect to a grease pump assembly and allow for engagement to a grease gun. The bulk loader fitting and coupler both have a built-in ball check to reduce contamination of grease between uses.

**Bulk Loader Fitting**
- 1/8"-27 NPT
- .34" Straight

**Bulk Loader Coupler**
- 3/8"-18 NPT x 1/2"-14 NPT
- .34" Straight

**Grease Gun Holder**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Thread</th>
<th>Overall Length</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>91108</td>
<td>L91108</td>
<td>Bulk Loader Fitting</td>
<td>1/8&quot;-27 NPT</td>
<td>1-1/4&quot;</td>
<td>.34&quot; Straight</td>
</tr>
<tr>
<td>80133</td>
<td>L80133</td>
<td>Bulk Loader Coupler</td>
<td>3/8&quot;-18 NPT x 1/2&quot;-14 NPT</td>
<td>2-1/2&quot;</td>
<td>.34&quot; Straight</td>
</tr>
<tr>
<td>82760</td>
<td>L82760</td>
<td>Grease Gun Holder</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>
Grease hoses allow for access to greasing nipples in hard to reach areas. The flexible hose can conform to any shape to reach the greasing nipple. Grease hoses come in a variety of lengths and working pressures to fit any application. Please note: Never use a grease hose at a pressure above the recommended working pressure.

**STANDARD HOSES**

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>75912CL</td>
<td>L75912CL</td>
<td>Flexible Grease Hose - Standard Duty</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>75918CL</td>
<td>L75918CL</td>
<td>Flexible Grease Hose - Standard Duty</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>75924CL</td>
<td>L75924CL</td>
<td>Flexible Grease Hose - Standard Duty</td>
<td>24&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>75936CL</td>
<td>L75936CL</td>
<td>Flexible Grease Hose - Standard Duty</td>
<td>36&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>3,000 psi</td>
<td>12,000 psi</td>
</tr>
</tbody>
</table>

**MEDIUM & HEAVY DUTY HOSES**

Grease hoses available with a spring provide additional rigidity to the hose to prevent kinking. Please note: Never use a grease hose at a pressure above the recommended working pressure.

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Burst Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5812</td>
<td>L5812</td>
<td>Flexible Grease Hose - Medium Duty with Spring</td>
<td>12&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>4,500 psi</td>
<td>18,000 psi</td>
</tr>
<tr>
<td>5818</td>
<td>L5818</td>
<td>Flexible Grease Hose - Medium Duty with Spring</td>
<td>18&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>4,500 psi</td>
<td>18,000 psi</td>
</tr>
<tr>
<td>5861</td>
<td>L5861</td>
<td>Flexible Grease Hose - Medium Duty with Spring</td>
<td>36&quot;</td>
<td>Hand</td>
<td>1/8&quot;-27 NPT</td>
<td>4,500 psi</td>
<td>18,000 psi</td>
</tr>
<tr>
<td>1218</td>
<td>L1218</td>
<td>Flexible Grease Hose - Heavy Duty with Spring</td>
<td>18&quot;</td>
<td>Air / Batt.</td>
<td>7/16&quot;-27 UNEF</td>
<td>7,500 psi</td>
<td>28,000 psi</td>
</tr>
<tr>
<td>1224</td>
<td>L1224</td>
<td>Flexible Grease Hose - Heavy Duty with Spring</td>
<td>24&quot;</td>
<td>Air / Batt.</td>
<td>7/16&quot;-27 UNEF</td>
<td>7,500 psi</td>
<td>28,000 psi</td>
</tr>
<tr>
<td>1230</td>
<td>L1230</td>
<td>Flexible Grease Hose - Heavy Duty with Spring</td>
<td>30&quot;</td>
<td>Air / Batt.</td>
<td>7/16&quot;-27 UNEF</td>
<td>7,500 psi</td>
<td>28,000 psi</td>
</tr>
<tr>
<td>1236</td>
<td>L1236</td>
<td>Flexible Grease Hose - Heavy Duty with Spring</td>
<td>36&quot;</td>
<td>Air / Batt.</td>
<td>7/16&quot;-27 UNEF</td>
<td>7,500 psi</td>
<td>28,000 psi</td>
</tr>
</tbody>
</table>
Rigid pipe extensions are constructed from steel for strength and stability. The high rolled threads provide a tight seal with the mating coupler or gun. Angled rigid pipe extensions come in various lengths to fit any application.

**DIAGRAM**

Rigid Grease Extension
1/8"-27 NPT

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>62028</td>
<td>L62028</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>6&quot;</td>
<td>Angle</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
</tr>
<tr>
<td>62061</td>
<td>L62061</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>12&quot;</td>
<td>Angle</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>—</td>
</tr>
<tr>
<td>62117</td>
<td>L62117</td>
<td>Rigid Pipe Extension - Heavy Duty</td>
<td>18&quot;</td>
<td>Angle</td>
<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
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</tbody>
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**FLEXIBLE & RIGID EXTENSIONS**

Flexible & Rigid Grease Extension
1/8"-27 NPT
5,000 psi

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Length</th>
<th>Angle</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5858</td>
<td>L5858</td>
<td>Flexible &amp; Rigid Extension</td>
<td>13&quot;</td>
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<td>Hand</td>
<td>1/8&quot;-27 NPTF</td>
<td>5,000 psi</td>
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</tbody>
</table>
Lincoln® couplers play a vital roll in greasing the components in your industrial or agriculture application. The small outside diameter of the 5852 allows for easy connection with recessed fittings. The 5848 is a swivel coupler great for providing access to difficult to reach fittings.

### Hydraulic Couplers

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Jaws</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
<th>Ball Check</th>
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<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
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<td>1/8&quot;-27 NPT</td>
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<td>Yes</td>
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<td>5845</td>
<td>Hydraulic Coupler - Conventional</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPT</td>
<td>7,500 psi</td>
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<tr>
<td>5883</td>
<td>Hydraulic Coupler - 90° Push-on</td>
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<td>1/8&quot;-27 NPT</td>
<td>1,000 psi</td>
<td>No</td>
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<tr>
<td>5848</td>
<td>Hydraulic Coupler - 360° Swivel</td>
<td>3 Jaw</td>
<td>Air / Battery</td>
<td>1/8&quot;-27 NPT</td>
<td>7,000 psi</td>
<td>Yes</td>
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**COUPLERS**

Button head couplers have a slot designed to fit over the standard button head fitting. These couplers are essential in proper lubrication of button head fittings.

<table>
<thead>
<tr>
<th>LINCOLN Item #</th>
<th>G.L. HUYETT Order #</th>
<th>Description</th>
<th>Equipment Type</th>
<th>Thread</th>
<th>Working Pressure</th>
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</thead>
<tbody>
<tr>
<td>80933</td>
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<td>Coupler - Giant Button Head Push-on / Pull-on</td>
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<td>81458</td>
<td>L81458</td>
<td>Coupler - Button Head Push-on / Pull-on</td>
<td>Hand</td>
<td>7/16&quot;-27 UNS</td>
<td>4,000 psi</td>
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<td>10460</td>
<td>L10460</td>
<td>Button Head Thread Adapter</td>
<td>Hand</td>
<td>(X) 7/16&quot;-27 UNS (M) &amp; (Y) 1/8&quot;-27 NPT (F)</td>
<td>5,000 psi</td>
</tr>
</tbody>
</table>

**DESIGN FEATURE**

**PULL-ON COUPLER**

Attach extension or hose to this side to create a pull-on button head coupler.

**PUSH-ON COUPLER**

Attach extension or hose to this side to create a push-on button head coupler.
ACCESSORIES

Needle nozzles are designed for lubricating flush type fittings. They are available in different lengths for any application. Needle nozzles connect to standard pipe extensions or whip hoses.

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<tr>
<th>31138</th>
<th>Copper Washer</th>
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<td>OD: 0.570”</td>
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<table>
<thead>
<tr>
<th>5803</th>
<th>Needle Nozzle - Male</th>
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</thead>
<tbody>
<tr>
<td>1/8”-27 NPT</td>
<td>1 3/8” Needle</td>
</tr>
</tbody>
</table>

Needle nozzles are designed for lubricating flush type fittings. They are available in different lengths for any application. Needle nozzles connect to standard pipe extensions or whip hoses.

**Lincoln**

**Item #**

**G.L. HUYETT**

**Description**

**Needle Length**

**Equipment Type**

**Thread**

**Pipe Diameter**

**Tip Diameter**

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<tr>
<th>31138</th>
<th>L31138</th>
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<table>
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<td>1-3/8”</td>
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<tr>
<td>1/8”-27 NPT</td>
<td>.188”</td>
<td>.031”</td>
</tr>
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</table>

**Customers Also Bought**

**Quick Connect**

Quick Connect Couplers include a standard nipple for simple engagement with any standard coupler. This allows the user to service a variety of grease fittings with minimal tool change time.
QUICK CONNECT

Quick connect adapters are an effective way to bring versatility to grease guns. When multiple types of tools are needed for maintenance, quick connectors allow for quick changing of lubrication tools to properly ensure lubrication of the greasing points. The 5849 with its 360° swivel head, is useful when servicing agricultural or industrial applications with multiple angled greasing points.

<table>
<thead>
<tr>
<th>82784</th>
<th>Quick Connect Coupler - Needle Nozzle</th>
<th>L82784 Quick Connect Coupler - Needle Nozzle</th>
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<th>Straight</th>
<th>Needle Nozzle</th>
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<tr>
<td>5849</td>
<td>Quick Connect Coupler - 360° Swivel</td>
<td>L5849 Quick Connect Coupler - 360° Swivel</td>
<td>Air / Battery</td>
<td>360° Swivel</td>
<td>3 Jaw Hydraulic</td>
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For Air / Battery Equip.
## Deluxe – Hydraulic Inch
**DISP-GF170**

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<tr>
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<td>20</td>
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<tr>
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<tr>
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## Basic – Hydraulic Inch
**DISP-GF018**

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<td>5/16&quot;</td>
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<td>34</td>
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<td>7/16&quot;</td>
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<td>22</td>
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<tr>
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<td>5/16&quot;</td>
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<td>14</td>
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<td>3/8&quot;</td>
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<tr>
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## Basic – Hydraulic Inch
**DISP-GF032**

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<td>17</td>
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</tbody>
</table>

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<tr>
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**Grease Fittings & Accessories**

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### Basic – Hydraulic Inch

**DISP-GFSS50**

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### Basic – Hydraulic Metric

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Choose one of our assortments or call to customize your own.

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- POS displays
- Sampling opportunities
- Special promotions
- Specific applications
- Maintenance kits

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- Expected Ship Date
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Learn more at huyett.com/quality.
### Metric Basic – Hydraulic Disp-GFM032

32 Pieces
Carbon Steel, Zinc Trivalent

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### British Basic – Hydraulic Disp-GFBS100

100 Pieces
Carbon Steel, Zinc Trivalent

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**PRODUCT FEATURE**

All assortments come organized in a clear divided box, along with a visual guide to assist in proper grease fitting identification.

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Basic – Hydraulic Inch
DISP-GFA23651

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Basic – Hydraulic Metric
DISP-GFA2371

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- POS displays
- Sampling opportunities
- Special promotions
- Specific applications
- Maintenance kits

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Proud Distributor Of

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- MAK-A-KEY
- Aztec
- HandChek
- Expand-O-Pin
- Tec Series
- Precision Specialties
- Armayron
- Disc-Lock
- Oetiker
- AVK
- Lincotech
- SPIROL
- Rotorkly

Connecting & Mounting Clamps, Quick Connectors, Rings, Straps, & Tools

Grease Fittings, Grease Guns, Lubrication & Fluid Handling & Management Systems

Coiled Spring Pins, Slotted Spring Pins, Spacers, & Thrust Washers

Retaining Rings, Circlips, Hose Clamps, Spiral Rings, Constant Section Rings, & Wave Springs

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* Product cross references do not imply that dimensions, performance and other characteristics represent an exact match. All specifications should be reviewed prior to purchase.
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* Product cross references do not imply that dimensions, performance and other characteristics represent an exact match. All specifications should be reviewed prior to purchase.

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* Product cross references do not imply that dimensions, performance and other characteristics represent an exact match. All specifications should be reviewed prior to purchase.

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**Born Out of the Old Tin Shed**

The Old Tin Shed houses the story of G.L. Huyett. According to newspaper accounts, a German immigrant named Guy Huyett bought the hardware stock of the Globe Department Store in 1899 and moved it to a location on Main Street in Minneola, Kansas. He incorporated the business in 1906, the date that we trace to our founding, over 100 years ago.

From 1906 until 1994, the shed sheltered our entire company. The shed was originally an old hotel that was hitched to a team of horses and drug a ½ mile down South Concord Street so that G.L. Huyett could be closer to the local rail spur. Many of the images on the cover of this book come from our storied history in the shed.

Our story isn’t unique...and that is exactly what we love about it. It is a story you have heard a hundred times before...a story filled with human drama, pain, struggle, and triumph. It is a story lived by millions of lucky people. It is the American Dream.

During the Great Depression, Henry Hahn, successor to Guy Huyett, sold alfalfa seed to supplement lost hardware sales so that he could stay in business. Henry eventually turned the business over to his son Louis, who was a notorious entrepreneur in these parts. Later, Louis allowed his son Bob to join the firm, which, at the time was largely centered on the machinery bushing product line. On Sunday afternoons, locals would gather around an old oak tree and socialize. To pass time, they would count and wire tie rings of 25, 50, and 100 machinery bushings while sipping whiskey. The group was affectionately known as “the South Side Sunday Sippin’ Society” or “SSSSS.”

Soon Bob took to the road and expanded product lines to include, among other things, pins, key stock, grease fittings, snap rings, and more. Bob worked days packing and shipping orders and answering the phone while his wife Dolly worked nights pounding out invoices on a Smith Corona typewriter. Sometimes Bob would meet Dolly going to bed while Dolly was arising to start typing. Some customers were known to “appreciate” Dolly’s penny-pinching ways and would mail coins taped to postcards so that Dolly would stop calling to collect for small billing differences.

Today, G.L. Huyett has grown into a highly entrepreneurial enterprise with an interest in personal improvement and commitment to community that is inherent to the spirit of the pioneers who made the Great American Desert into America’s Breadbasket. We now manufacture a large part of our sales mix and are committed to improving our community and the life of our customers by executing to the principles of our humble past.

We call this our “Way of Life” and we are proud to have you as part of our lives. Our job is to make your job easier and we thank you for the opportunity.