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VANGUARD™

EURO™

ALEMITE®

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LINCOLN®



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WIRE TUBES
WIRE FITTINGS
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Purveyors of a Way of Life™

WHO WE ARE

FRIENDLY PEOPLE
FROM KANSAS ANSWER THE
PHONE OR EMAIL

G.L. Huyett is a low-overhead manufacturer, master distributor and importer of non-threaded industrial fasteners. Located just fifty miles from the geographic center of the United States, 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 entire culture and we are here to serve you.

G.L. Huyett has a complete machine shop and we manufacture an array of non-threaded fasteners and special assemblies. Our Shop is equipped to make exotic material grease fittings in Monel™, Inconel™, Carpenter™ 20 and other alloys.



WHAT WE DO

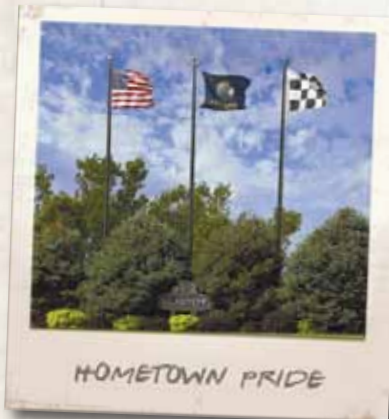
WE SERVE YOU!

We serve our customers by reducing total costs through a combination of competitive prices, value-added services and an inventory of some 95,000 non-threaded industrial fasteners. We save our customers time and money by offering the opportunity to quote, order, ship and receive a wide array of parts on one purchase order.

We serve our partners by providing programs and opportunities to facilitate the achievement of business and professional goals. For this catalog, we have made partnerships with Alemite® and Lincoln® to pass on cost-savings to you. We have also 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 Kansas.

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 non-profit organizations in a manner that improves quality of life.



HOW WE DO IT

WE MAKE YOUR
LIFE EASY!

With 95,000 parts in one place, and a complete machine shop to manufacture special orders, you can consolidate items normally purchased from multiple suppliers into one box.

-We ship stock parts same day if the order is received by noon. Same day via air if by 5:00 PM.

-All parts ship from one point, on one PO, using one Bill of Lading, and one receipt.

-We answer the phone 7:00 AM to 6:00 PM CST.

-All documented using the "Pack List That Will Change Your Life™"





TO LEARN MORE ABOUT OUR HISTORY VISIT OUR WEBSITE AT WWW.HUYETT.COM.






HERITAGE™


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





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

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




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
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


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

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ALEMITE®



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AEROSPACE

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HOW TO USE II

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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

CATALOG SECTION

PAGE TITLE

FITTING SPECIFICATION

HERITAGE
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1/4"-28 SAE-LT EXCEEDED TO 1/4" SAE 67MPa
6.8001 PSI 15.4 MPa PRESTRESS

SAE J534

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.

HERITAGE	VANGUARD	EURO	EURO255
90° Angle 1/4"-28 Taper Thread Standard Shank	90° Angle 1/4"-28 Taper Thread Standard Shank	90° Angle 1/4"-28 Taper Thread Long Shank	90° Angle 1/4"-28 Taper Thread Short Shank

ITEM #	THREAD	ANGLE (°)	OVERALL LENGTH (L)	SHANK LENGTH (S)	PRE-TENSIONED LENGTH (T)	OVERALL WIDTH (W)	THREAD DIAMETER (D)	SHANK DIAMETER (d)	MIN. TORQUE (ft-lb)
HERITAGE	1/4"-28	90°	1.5"	3.0"	1.0"	.66"	.25"	.41"	3.0"
VANGUARD	1/4"-28	90°	1.5"	3.0"	1.0"	.66"	.25"	.45"	3.0"
EURO	1/4"-28	90°	3.0"	3.0"	.22"	.65"	.25"	.30"	3.0"
EURO255	1/4"-28	90°	1.5"	1.6"	1.0"	.66"	.25"	.41"	3.0"

DESIGN FEATURE

THREAD SEALANT IS AUTOMATICALLY ADDED ON POST DEFORMATION YIELDING A LEAK-FREE PERFORMANCE

HERITAGE™
PG. 14

VANGUARD™
PG. 136

EURO™
PG. 154

ALEMITE®
PG. 176

AEROSPACE
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LINCOLN®
PG. 246

COLOR CODING

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LOCATING WHAT YOU NEED

CATALOG COPY

ALTERNATE MATERIALS AVAILABLE

CROSS REFERENCES

ITEM NUMBER

ITEM DESCRIPTION

PART PRINTS ARE DISPLAYED APPROXIMATE ACTUAL SIZE FOR EASY IDENTIFICATION.

ADDITIONAL NOTES

PART PRINT

DATA TABLE

ITEM #	THREAD	TYPE	STRAIGHT (IN)	TAPER (IN)	SHORT SHANK (IN)	STRAIGHT (IN)	TAPER (IN)	SHORT SHANK (IN)	ITEM #
M641	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M641
M64N	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M64N
M700555	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M700555
M365605	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M365605
M40646	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M40646
M09554	1/4"-28	STRAIGHT	3/4"	18"	10"	—	25"	—	M09554

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GENERAL	
	COMMON PARTS
	NO BALL CHECK
	ITEM NOT PICTURED
	METRIC THREAD
	BRITISH THREAD
	GERMAN THREAD
	AVAILABLE IN STAINLESS
	AVAILABLE IN MONEL®
	AVAILABLE IN BRASS

CROSS REFERENCES	
	ALEMITE®
	LINCOLN®
	JOHN DEERE®
	GENERAL MOTORS®
GM/CH	GENERAL MOTORS®/CH
	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

H1644



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

1
THREAD SIZE

2
THREAD PITCH

3
THREAD SERIES

2
READ SECOND

3
READ THIRD

1
READ FIRST

UNDERSTANDING THE THREAD DESCRIPTION WILL ALLOW YOU TO SELECT THE BEST GREASE FITTING FOR YOUR APPLICATION.



1 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.



2 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.

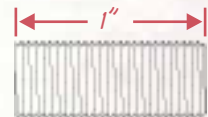


1/8"-27 PTF
0.393" Diameter



3 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.

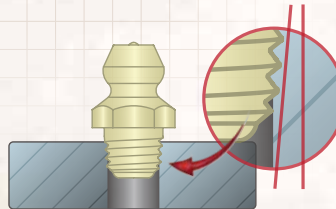


THREAD PITCH
THREADS PER INCH
(TPI)

TAPER VS. PARALLEL

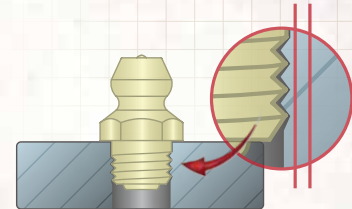
- Taper threads begin at the shank and taper in toward the end of the fitting and mate into tapered or parallel threaded holes.
- Parallel threads are straight from shank to the end of the fitting. Parallel threads mate with parallel threaded holes and seat on the shoulder as a screw would, providing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

TAPER THREADS



TAPER THREADS RUN
DIAGONAL TO MATING MATERIAL.

PARALLEL THREADS

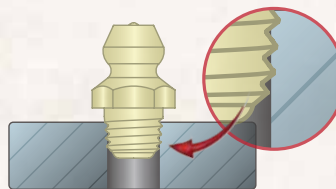


PARALLEL THREADS RUN
PARALLEL TO MATING MATERIAL.

SELF-SEAL VS. SEALANT

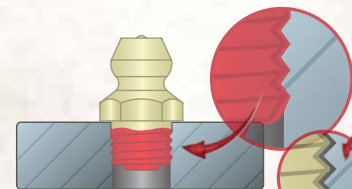
- Self-sealing pipe threads are designed to seal pressure-tight joints without the use of a sealing compound.
- Conversely, parallel type threads require the use of sealant to create a leak-proof seal. The sealant works as a joining agent between the parent material and the part itself.

SELF-SEALING



SOME, BUT NOT ALL TAPER
THREADS ARE SELF-SEALING.

SEALANT



PARALLEL THREADS ALWAYS
REQUIRE THE USE OF
THREAD SEALANT TO ENSURE
A LEAK-PROOF SEAL.

PARALLEL
THREADS
WITHOUT
SEALANT.

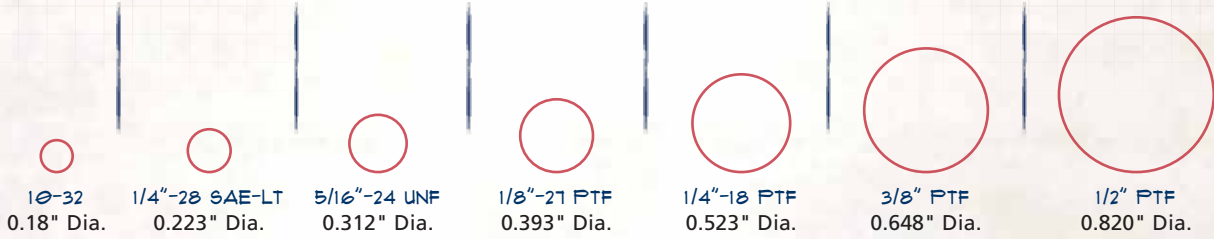
PIPE THREAD BASICS

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.

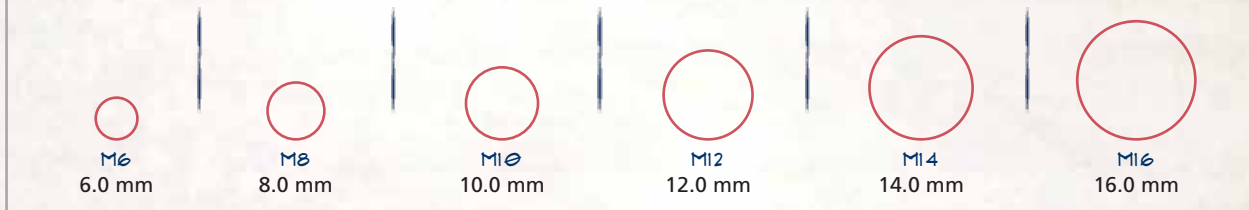
THREAD SIZE CHART

TO MEASURE THREAD SIZE: PLACE THE FITTING IN THE CENTER OF THE CLOSEST SIZED CIRCLE.

IMPERIAL SIZE CHART

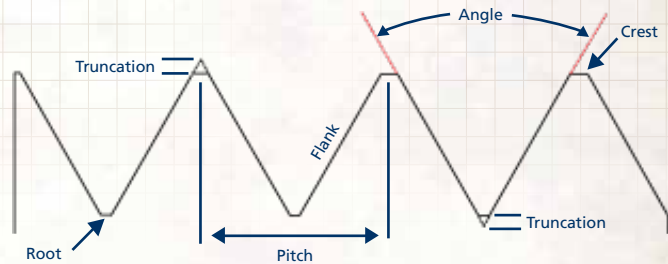


METRIC SIZE CHART



THREAD TERMS

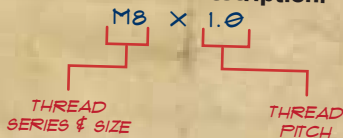
- **TRUNCATION** - Material removed from the theoretical V-thread triangle of the thread form.
- **CREST** - Highest point of a thread, opposite the root.
- **ROOT** - The lowest point of a thread, opposite the crest.
- **FLANK** - Thread portion joining the thread root and crest.
- **ANGLE** - The angle 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:



IMPERIAL THREAD DESIGNATION

(THREADS PER INCH)



TO FIGURE THE THREAD PITCH OF AN IMPERIAL (OR BRITISH) FITTING, TAKE THE NUMBER OF THREADS PER 1 INCH AND DIVIDE 1 BY THAT NUMBER.

EXAMPLE:
A 1/8"-27 THREAD DESIGNATION HAS 27 THREADS IN ONE INCH.

1 DIVIDED BY 27 EQUALS .037"

METRIC THREAD

(COARSE & FINE)



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.



POPULAR THREAD SERIES

The following pages are a comprehensive guide to threads and their design. Please contact our engineering team at engineering@huyett.com with additional questions.

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 GENERICALLY REFERRED TO AS "TAPER THREAD."

SAE-LT

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.

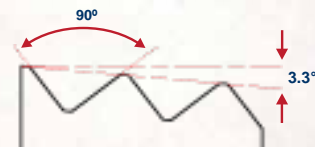


SAE-THREAD FORMING

SOCIETY OF AUTOMOTIVE ENGINEERS

- Taper Thread
- Self-sealing

• Thread forming threads possess a larger thread angle and are hardened which enables them to be installed into an untapped hole without deformation. Standard SAE-LT and PTF fittings may be used to replace a thread forming fitting.



AMERICAN STANDARD

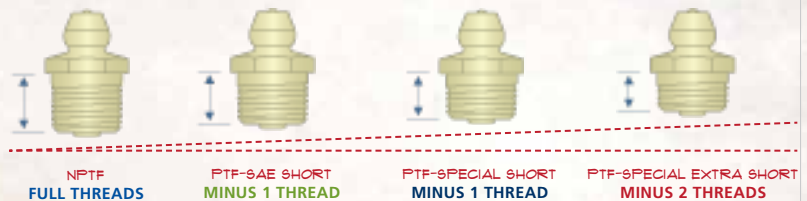
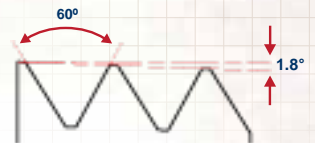
American Standard Threads were adopted by the American Standards Association (ASA) in 1921. Unlike many other threads, American Standard Thread sizes are confusing by the fact that the thread designation is based off nominal pipe sizes and does not refer to any physical dimension. For example, a 1/4"-18 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**

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.

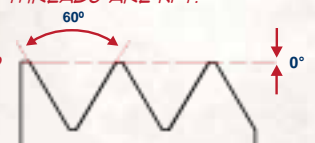


NPSM

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.



VARIATIONS 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**



POPULAR THREAD SERIES

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:

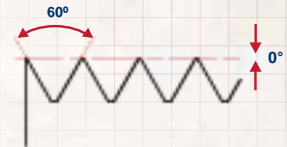
UNS: Unified National Special diameter thread is an umbrella thread form which covers those thread forms which existed under the ANS standard, but which do not fit into any other category.

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

UNF

UNIFIED NATIONAL FINE THREAD

- Parallel Thread
- **Thread sealant recommended**

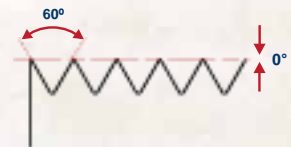


- *Unified National Fine thread is a common mechanical thread type used in the U.S. for screws and bolts.*

UNEF

UNIFIED NATIONAL EXTRA FINE THREAD

- Parallel Thread
- **Thread sealant recommended**

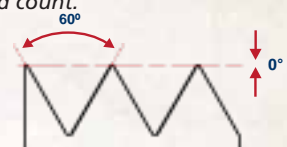


- *United National Extra Fine thread is a common mechanical thread type, similar to UNF, but with a finer thread count.*

UNC

UNIFIED NATIONAL COURSE THREAD

- Parallel Thread
- **Thread sealant recommended**



- *Unified National Course thread is a common mechanical course thread.*

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 preceded by a pitch diameter, followed by a thread pitch (mm), i.e. M8x1.5 or S6x1.0. 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

FOREIGN STANDARD PIPE THREAD

- Taper Thread
- **Thread sealant recommended**

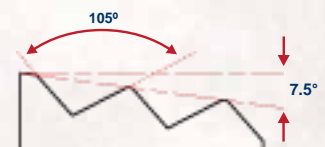


- *ISO Metric threads were one of the first international standards agreed upon when the International Organization for Standardization was created in 1947.*

METRIC- THREAD FORMING

FOREIGN STANDARD PIPE THREAD

- Taper Thread
- Self-sealing

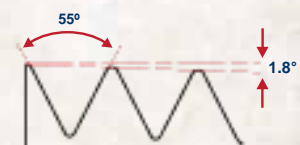


- *Metric Thread Forming threads (S) perform similar to American thread forming versions, but metric threads have a much wider 105° thread angle.*

BRITISH A.K.A. WHITWORTH

FOREIGN STANDARD PIPE THREAD

- Taper Thread
- **Thread sealant recommended**



- *British threads, also known as Whitworth threads, encompass several distinct variations including fine, course and pipe threads.*

VARIATIONS OF THE BRITISH THREAD PROFILE:

BSPT: British Standard Pipe Taper threads are a Whitworth form tapered male thread. Female threads are typically parallel.

BSF: British Standard Fine threads are a parallel threaded Whitworth form thread.

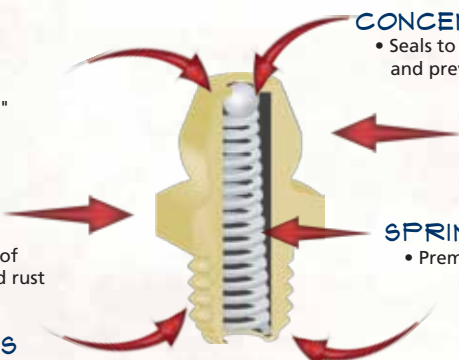
BSPP/BSFP: British Standard Pipe Parallel or British Standard Pipe Fastening threads are coarse threaded Whitworth form threads with a parallel thread profile.

German: What is often referred to as German threads are really a German designation of British coarse threads.

DESIGN STANDARDS

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.

FITTING DESIGN



NIPPLE PROFILE

- SAE-J534
- Controlled within +/- 0.012"

CONCENTRIC BALL

- Seals to limit leakage and prevent contamination

HEAT TREATMENT

- 83 min. on Rockwell 15N scale
- Case Depth: 0.005" - 0.009"

PLATING

- ASTM B633
- Salt spray life of 72 hours to red rust

SPRING

- Premium Grade 2 Music Wire

MACHINED THREADS

- Material is removed through the turning process

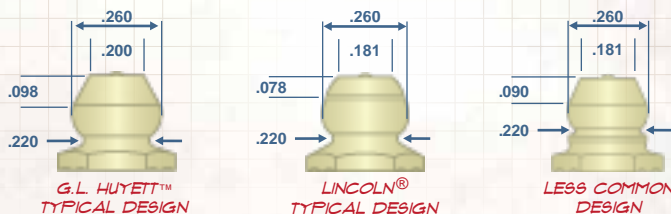
ASSEMBLY

- Lip is formed after assembly of ball & spring

NIPPLE VARIATIONS

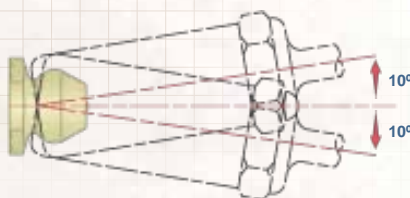
The three nipple designs, shown to the right, are approved. They are manufactured within a tolerance of +/- 0.012."

G.L. HUYETT'S NIPPLE DESIGN COMPLIES WITH SAE SPECIFICATIONS.



COUPLER ALIGNMENT

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.

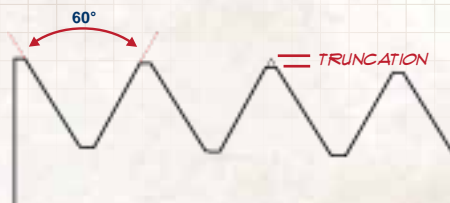


CONTOUR OF TIP MUST ALLOW COUPLER TO SEAL WITHIN 10° DEGREES OF MISALIGNMENT IN ANY DIRECTION WITH THE AXIS OF FITTING.

THREAD SPECIFICATION

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.

PTF EXTERNAL TAPER THREAD PROFILE



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 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.

TURNED



HEAT TREATED

R15N 83 MIN



PLATED

ASTM B633



ASSEMBLED



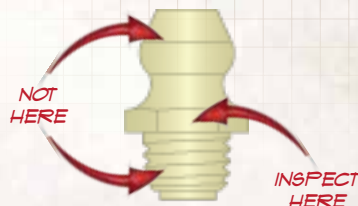
INSPECTION

- 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.

HEAT TREATMENT



PLATING THICKNESS

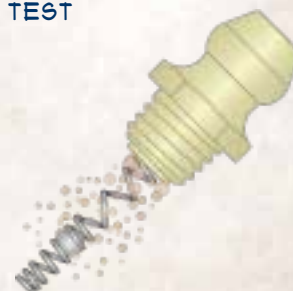


PLATING PERFORMANCE

ASTM B117



PRESSURE TEST



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

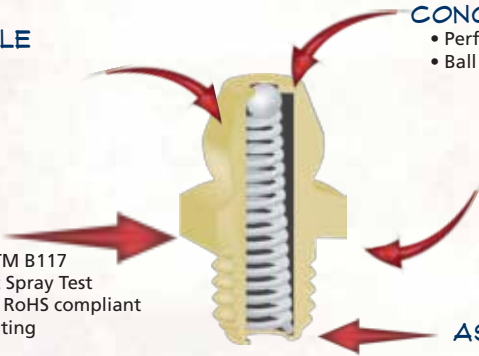
PRECISE NIPPLE PROFILE

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



PLATING

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



CONCENTRIC PROFILE

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

ROLLED THREADS

- Cold worked for added strength
- Stronger than cut threads

ASSEMBLY

- Automated assembly

ALL HERITAGE™ AND VANGUARD™ FITTINGS MEET SAE J534 SPECIFICATIONS.

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.

HERITAGE™, VANGUARD™ AND EURO™ FITTINGS ARE TESTED TO ENSURE SUPERIOR CRAFTSMANSHIP IN CASE HARDENING.



HEATED TO RED HOT, MATERIAL ABSORBS CARBON MAKING IT HARDER.



HEATED FITTING IS THEN DROPPED IN OIL TO COOL.



FITTING IS RE-HEATED TO SCALE BACK HARDNESS TO DESIRED SPECIFICATION.

INTEGRITY

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.

AUTOMATION IS USED TO ASSIST IN ASSEMBLY OF FITTINGS TO ENSURE QUALITY.



BALL CHECK IS INTRODUCED.



SPRING FOLLOWS BALL CHECK.



LIP IS ROLLED COMPLETING ASSEMBLY.

THE FITTING IS OPTICALLY INSPECTED.



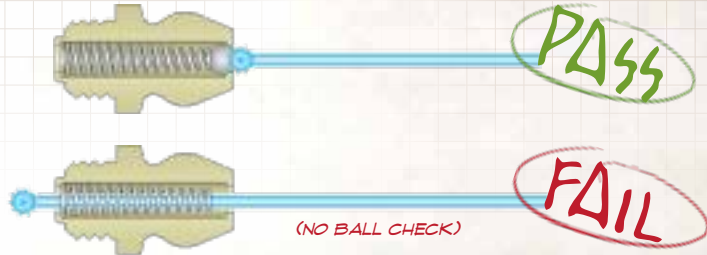
QUALITY ASSURANCE

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.

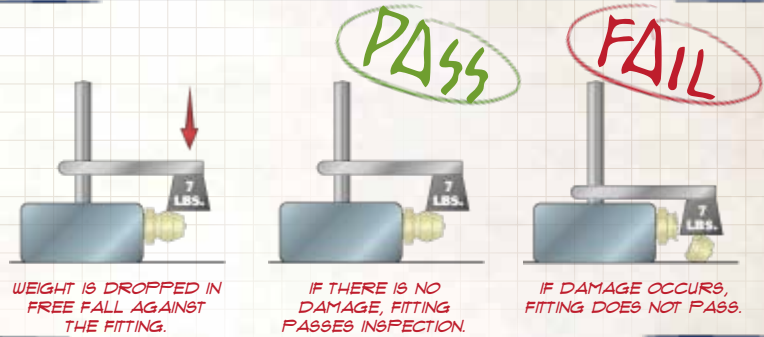
ALL HERITAGE™, VANGUARD™, & EURO™ FITTINGS ARE VISUALLY INSPECTED TO ENSURE A BALL CHECK IS PRESENT.



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.

OUR GREASE FITTINGS ARE TESTED TO ENSURE THAT THEY WILL WITHSTAND THE HARSH ENVIRONMENTS THEY MAY BE EXPOSED TO.



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.

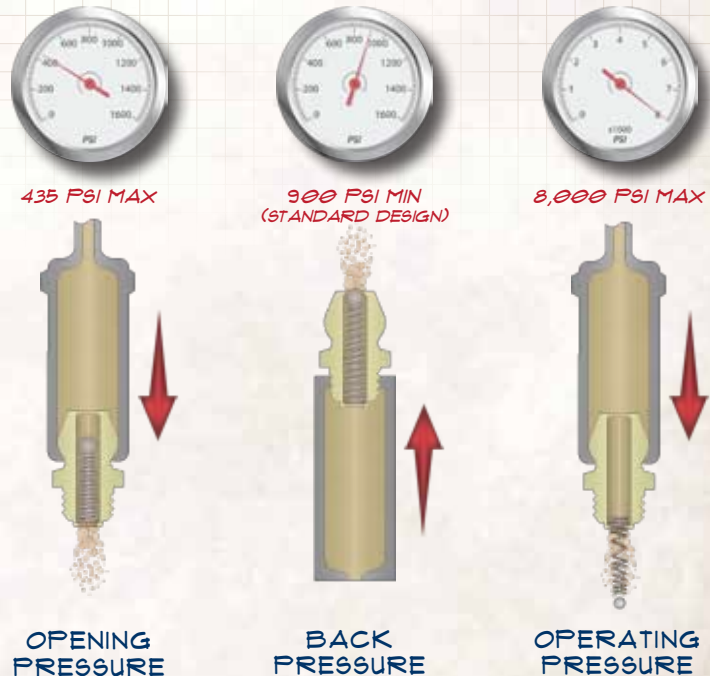
BACK PRESSURE TEST

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.



1/4"-28 SAE-LT

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

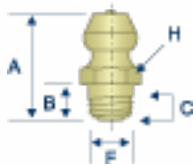
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI641

Straight
1/4"-28 Taper Thread
Standard Shank

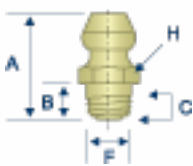


 1641-B
 5010
 JD7197

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN BRASS
✦ AVAILABLE IN MONEL®

HI641N

Straight
1/4"-28 Taper Thread
Standard Shank

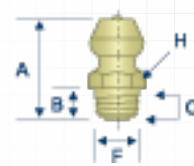


 5010-1

 NO BALL CHECK

H700395

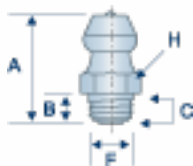
Straight
1/4"-28 Taper Thread
Short Shank



 700395

H369605

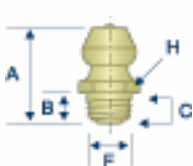
Straight
1/4"-28 Taper Thread
Short Shank



 369605

H240646

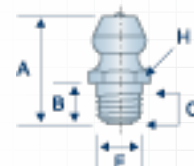
Straight
1/4"-28 Taper Thread
Short Shank



 240646

H369624

Straight
1/4"-28 Taper Thread
Standard Shank



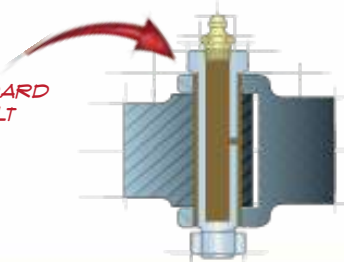
 369624

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)
HI641	1/4"-28	STRAIGHT	.54"	.18"	.10"	□	.25"	□	5/16"
HI641N	1/4"-28	STRAIGHT	.54"	.18"	.10"	□	.25"	□	5/16"
H700395	1/4"-28	STRAIGHT	.52"	.16"	.10"	□	.25"	□	9/32"
H369605	1/4"-28	STRAIGHT	.55"	.16"	.09"	□	.25"	□	5/16"
H240646	1/4"-28	STRAIGHT	.48"	.16"	.10"	□	.25"	□	5/16"
H369624	1/4"-28	STRAIGHT	.55"	.19"	.15"	□	.25"	□	5/16"

WHAT WE CAN DO FOR YOU

COMMON TRAILER PIVOT JOINT

STANDARD BOLT



OUR MACHINE SHOP WILL MODIFY BOLTS & OTHER FASTENERS FOR YOUR SPECIFIC APPLICATION. THE APPLICATION SHOWN HERE IS COMMONLY FOUND ON TRAILER SPRING SHACKLES.

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 2011

1/4"-28 SAE-LT

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

SAE J534

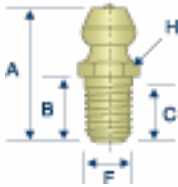
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

H1652



Straight
1/4"-28 Taper Thread
Long Shank



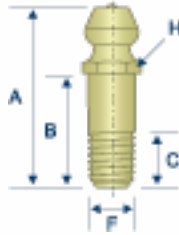
1652-B
 5013
 JD1803

† AVAILABLE IN STAINLESS

H1680



Straight
1/4"-28 Taper Thread
Extra Long Shank



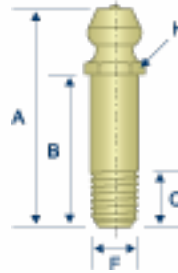
1680-B
 5014
 JD1819

† AVAILABLE IN STAINLESS

H1698



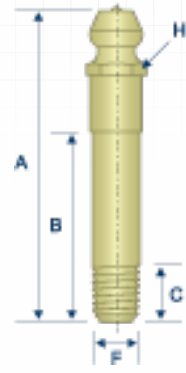
Straight
1/4"-28 Taper Thread
Super Long Shank



1698-B
 JD1813

H3014

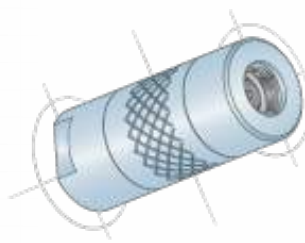
Straight
1/4"-28 Taper Thread
Ultra Long Shank



3014-B
 JD5814

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)
H1652	1/4"-28	STRAIGHT	.69"	.34"	.20"	□	.25"	□	5/16"
H1680	1/4"-28	STRAIGHT	.92"	.60"	.25"	□	.25"	□	5/16"
H1698	1/4"-28	STRAIGHT	1.12"	.81"	.20"	□	.25"	□	5/16"
H3014	1/4"-28	STRAIGHT	1.64"	1.00"	.20"	□	.25"	□	5/16"

CUSTOMERS ALSO BOUGHT



COUPLERS

OUR COMPLETE LINE
BEGINS ON PAGE 118



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.

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 2011

1/4"-28 SAE-LT

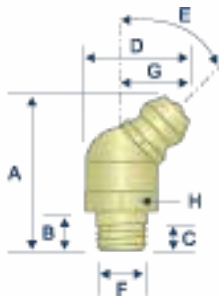
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

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.

H1637

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

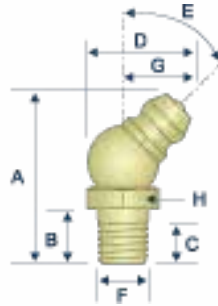


1637-B1
 5210
 JD1188

AVAILABLE IN STAINLESS
 AVAILABLE IN BRASS
 AVAILABLE IN MONEL®

H1636

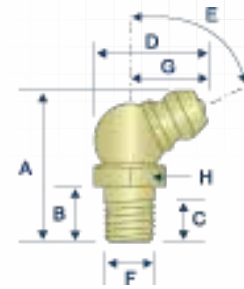
45° Angle
1/4"-28 Taper Thread
Long Shank



1636

H3010

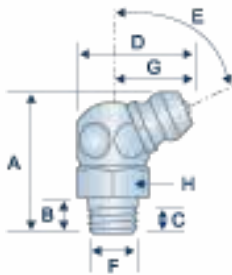
65° Angle
1/4"-28 Taper Thread
Long Shank



3010-B1
 700396

H369620

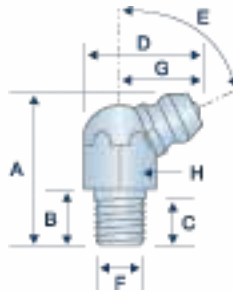
65° Angle
1/4"-28 Taper Thread
Standard Shank



369620

H369575

65° Angle
1/4"-28 Taper Thread
Long Shank



369575

SPECIAL PARTS

DO YOU NEED A CUSTOM
GREASE FITTING FOR
YOUR OPERATION?

WE CAN MAKE IT,
CALL OUR
SALES TEAM TODAY!

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)
H1637 *	1/4"-28	45°	.82"	.20"	.10"	.58"	.25"	.33"	3/8"
H1636	1/4"-28	45°	.94"	.30"	.20"	.58"	.25"	.33"	3/8"
H3010	1/4"-28	65°	.78"	.30"	.20"	.66"	.25"	.41"	3/8"
H369620	1/4"-28	65°	.69"	.19"	.11"	.66"	.25"	.41"	3/8"
H369575	1/4"-28	65°	.78"	.31"	.20"	.66"	.25"	.41"	3/8"

Common Parts
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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1/4"-28 SAE-LT

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

SAE J534

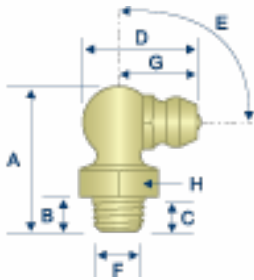
A common sight on automobile chassis, 90° angle fittings are often used when overhead access is impractical. As with all angled fittings, care should be taken to ensure proper orientation of the greasing nipple to the access point.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1911



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



▲ 1911-B1

▲ 5410

▲ JD1806

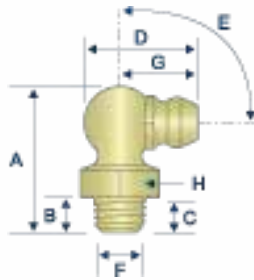
✦ AVAILABLE IN STAINLESS

✦ AVAILABLE IN BRASS

✦ AVAILABLE IN MONEL®

H1911N

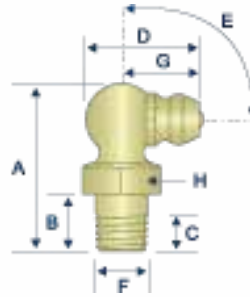
90° Angle
1/4"-28 Taper Thread
Standard Shank



⊘ NO BALL CHECK

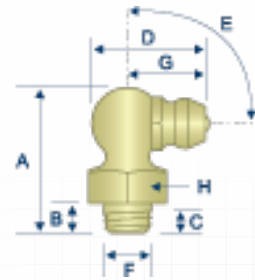
H1790

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



H700259

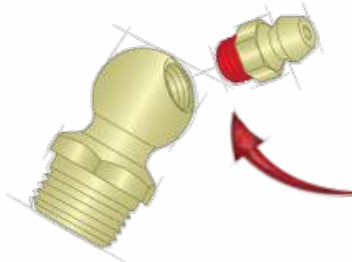
90° Angle
1/4"-28 Taper Thread
Short Shank



▲ 700259

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)
H1911	1/4"-28	90°	.75"	.20"	.10"	.66"	.25"	.41"	3/8"
H1911N	1/4"-28	90°	.75"	.20"	.10"	.68"	.25"	.49"	3/8"
H1790	1/4"-28	90°	.80"	.30"	.22"	.69"	.25"	.50"	3/8"
H700259	1/4"-28	90°	.75"	.16"	.10"	.66"	.25"	.41"	3/8"

DESIGN FEATURE



THREAD SEALANT IS AUTOMATICALLY
ADDED ON MOST DESIGNS,
YIELDING A LEAK-FREE PERFORMANCE

Common Parts
Parts with this designation
are in wide distribution.

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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

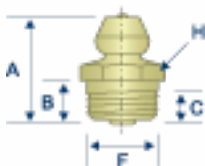
SAE J534

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 H1958, popular for use on water pumps, includes a cap that screws on and off for servicing.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1644

Straight
1/8"-27 PTF Spl. Extra Short
Short Shank

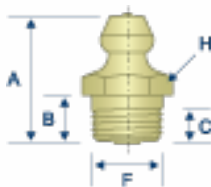


✦ AVAILABLE IN STAINLESS



H1610

Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank



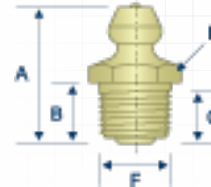
▲ 1610-BL
L 5000
JDT159

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN BRASS



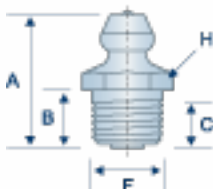
H1609

Straight
1/8"-27 NPTF
Long Shank



H369615

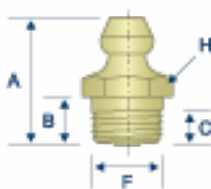
Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank



▲ 369615

H1610N

Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank

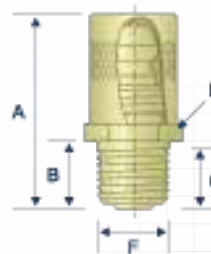


L 5000-1

⊘ NO BALL CHECK

H1958

Straight
1/8"-27 PTF SAE Short
Standard Shank



INCLUDES DUST CAP

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)
H1644	1/8"-27	STRAIGHT	.56"	.23"	.15"	□	.39"	□	7/16"
H1610	1/8"-27	STRAIGHT	.66"	.28"	.18"	□	.39"	□	7/16"
H1609	1/8"-27	STRAIGHT	.75"	.34"	.25"	□	.39"	□	7/16"
H369615	1/8"-27	STRAIGHT	.69"	.31"	.15"	□	.39"	□	7/16"
H1610N	1/8"-27	STRAIGHT	.66"	.28"	.18"	□	.39"	□	7/16"
H1958	1/8"-27	STRAIGHT	1.00"	.31"	.19"	□	.39"	□	7/16"

✦ Common Parts
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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

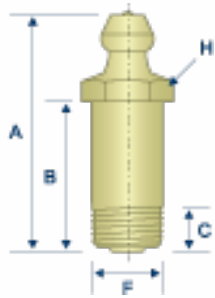
SAE J534

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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 H1684 is the hex size.

HI607

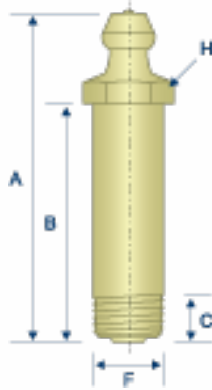
Straight
1/8"-27 PTF SAE Short
Extra Long Shank



1607-B + AVAILABLE IN STAINLESS
 5003
 JD1111

HI669

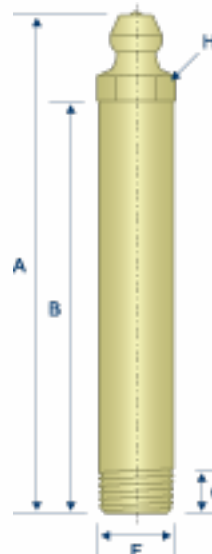
Straight
1/8"-27 PTF SAE Short
Super Long Shank



1669-B
 JD1182

HA1684

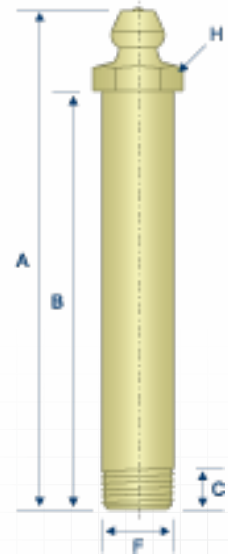
Straight
1/8"-27 NPTF
Super Long Shank



1684-B

HI684

Straight
1/8"-27 PTF Spl. Short
Super Long Shank

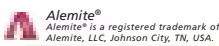


369599
 5003
 JD1179

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)
HI607 *	1/8"-27	STRAIGHT	1.25"	.75"	.22"	□	.39"	□	7/16"
HI669 *	1/8"-27	STRAIGHT	1.75"	1.28"	.22"	□	.39"	□	7/16"
HA1684	1/8"-27	STRAIGHT	2.62"	2.16"	.22"	□	.39"	□	3/8"
HI684 *	1/8"-27	STRAIGHT	2.62"	2.16"	.22"	□	.39"	□	7/16"



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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

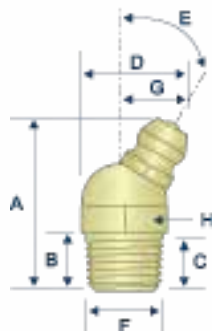
SAE J534

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 ARE APPROXIMATE ACTUAL SIZE

HI611

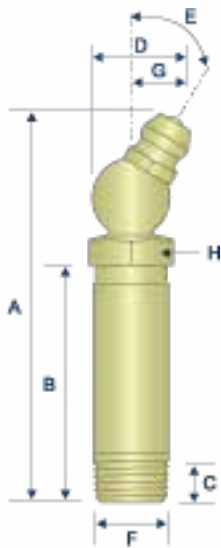
30° Angle
1/8"-27 PTF Spl. Extra Short
Standard Shank



▲ 1611-B + AVAILABLE IN STAINLESS
+ AVAILABLE IN MONEL®

HI638

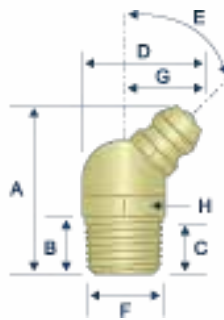
30° Angle
1/8"-27 PTF Spl. Short
Extra Long Shank



▲ 1638-B
▲ JDT183

HI689

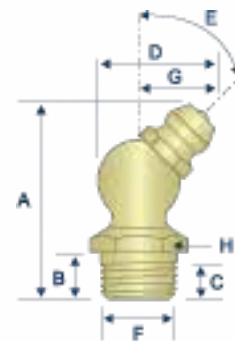
45° Angle
1/8"-27 PTF Spl. Short
Standard Shank



▲ 1688-B + AVAILABLE IN STAINLESS
▲ 5200
▲ JDT163

HI688

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



▲ T245870



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)
HI611	1/8"-27	30°	.90"	.30"	.22"	.56"	.39"	.34"	7/16"
HI638	1/8"-27	30°	2.09"	1.25"	.22"	.56"	.39"	.34"	7/16"
HI689	1/8"-27	45°	.88"	.28"	.22"	.62"	.39"	.46"	7/16"
HI688	1/8"-27	45°	1.01"	.28"	.22"	.62"	.39"	.46"	7/16"

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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

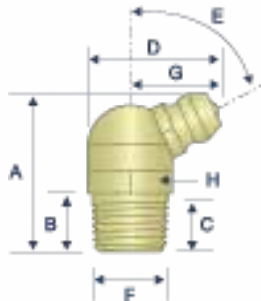
SAE J534

1/8"-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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI612

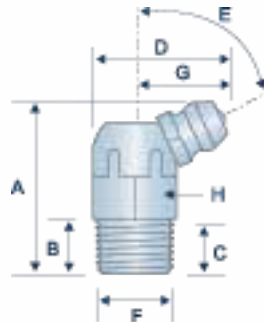
65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



▲ 1612-B + AVAILABLE IN STAINLESS
▲ 5300 + AVAILABLE IN MONEL®
▲ JD1160

H369608

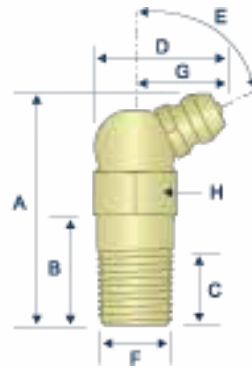
65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



▲ 369608

HI623

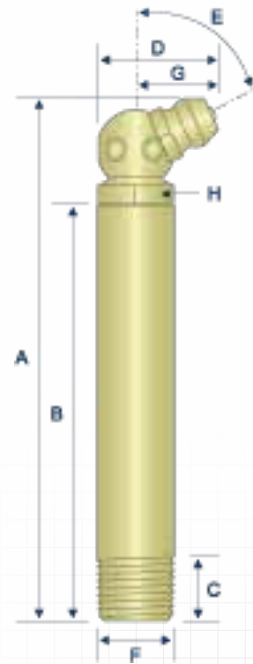
65° Angle
1/8" PTF SAE Short
Long Shank



▲ 1623-B
▲ 5308

HI649

65° Angle
1/8"-27 PTF Spl. Short
Ultra Long Shank



▲ 1649-B

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)
HI612	1/8"-27	65°	.86"	.30"	.22"	.72"	.39"	.50"	7/16"
H369608	1/8"-27	65°	.91"	.28"	.19"	.73"	.39"	.51"	7/16"
HI623	1/8"-27	65°	1.18"	.54"	.25"	.72"	.39"	.50"	7/16"
HI649	1/8"-27	65°	2.76"	2.24"	.19"	.66"	.39"	.47"	3/8"



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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

The 90° angle design is used in applications with overhead interference. The dual nipples on the H2X369574 allow for multiple access points.

HI613

90° Angle
1/8"-27 PTF Spl. Short
Standard Shank

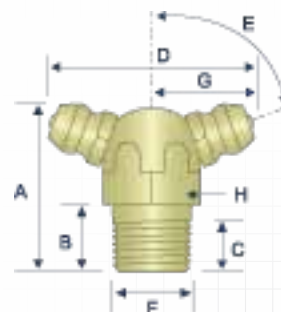
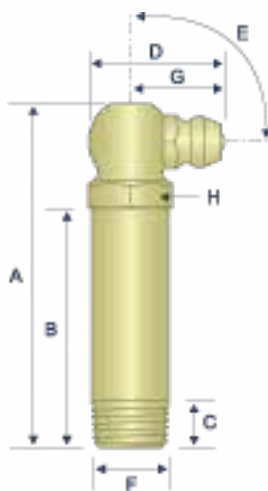
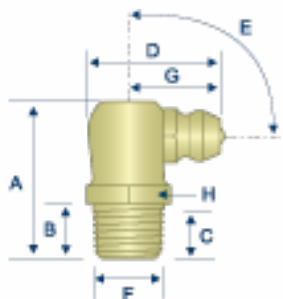


HI606

90° Angle
1/8"-27 PTF Spl. Short
Extra Long Shank

H2X369574

70° Angle
1/8"-27 PTF Spl. Short
Dual Nipples



1613-B
 5400
 JD1781

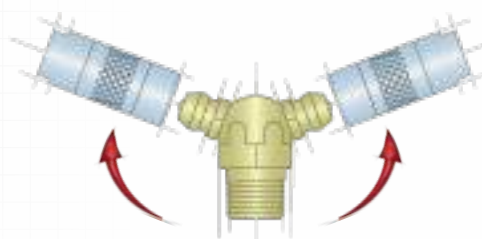
AVAILABLE IN STAINLESS
 AVAILABLE IN MONEL®

1606-B

369574

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)
HI613 *	1/8"-27	90°	.84"	.30"	.22"	.72"	.39"	.50"	7/16"
HI606	1/8"-27	90°	1.81"	1.25"	.31"	.73"	.39"	.52"	7/16"
H2X369574	1/8"-27	70° (X2)	.84"	.30"	.19"	1.10"	.39"	.55"	1/2"

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
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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1/8"-27 NPTF - FEMALE

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

SAE J534

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

Female threads allow the fitting to be threaded onto a pipe or used as a nut for component assembly. The H1620 possesses a square primary body, as opposed to a hexagon, but is a one-piece design. The H1618 and H1622 are two-piece designs.

H1618

Straight
1/8"-27 NPTF
Female Threads

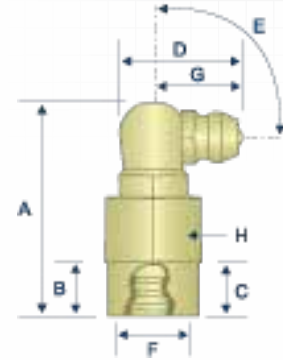
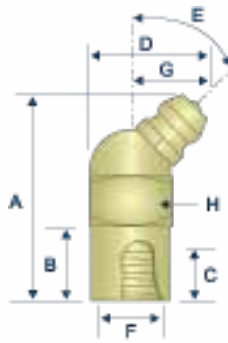
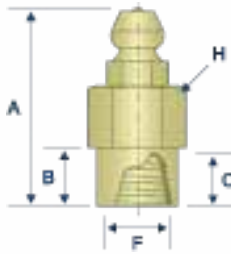


H1620

45° Angle
1/8"-27 NPTF
Female Threads

H1622

90° Angle
1/8"-27 NPTF
Female Threads



1618-B
 5505

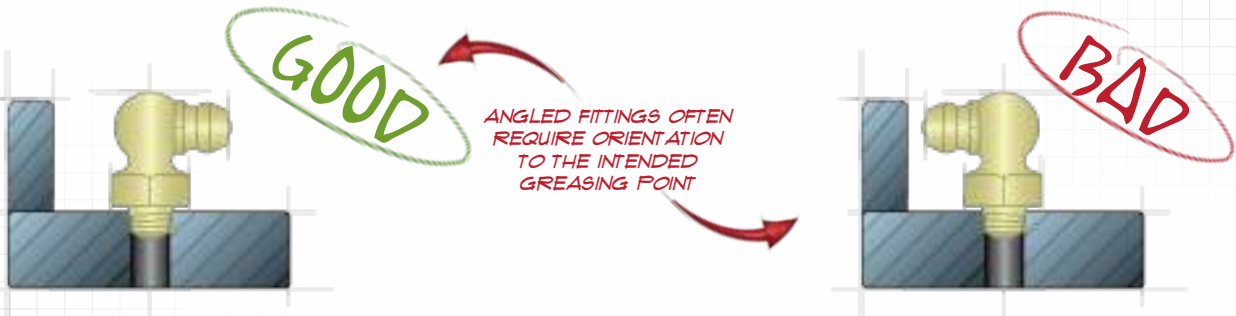
TWO-PIECE DESIGN

1620-B

TWO-PIECE DESIGN

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)
H1618	1/8"-27	STRAIGHT	1.00"	.31"	.28"	□	.34"	□	1/2"
H1620	1/8"-27	45°	1.13"	.39"	.28"	.64"	.34"	.33"	7/16" SQ.
H1622	1/8"-27	90°	1.25"	.41"	.28"	.66"	.34"	.41"	1/2"

CONSIDER THIS



Common Parts
Parts with this designation are in wide distribution.

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1/4"-18 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

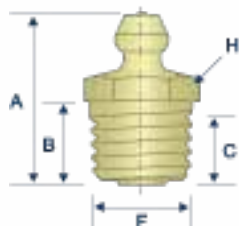
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI627

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

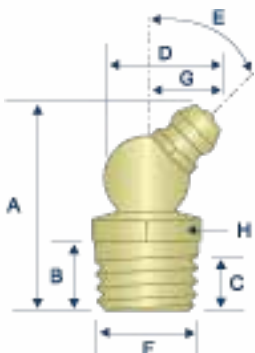


▲ 1627-B
L 5050
JD7169

✦ AVAILABLE IN STAINLESS

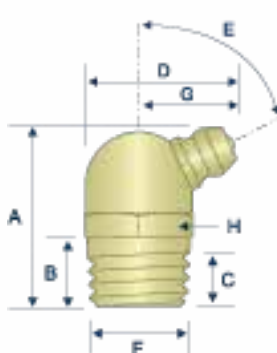
HI645

45° Angle
1/4"-18 NPTF
Standard Shank



HI629

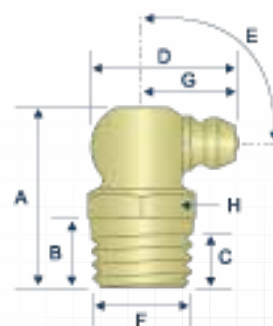
65° Angle
1/4"-18 PTF Spl. Extra Short
Standard Shank



▲ 1629-B
L 5350

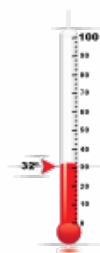
HI690

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

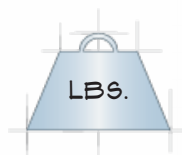


ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
HI627	1/4"-18	STRAIGHT	.88"	.45"	.34"	□	.52"	□	9/16"
HI645	1/4"-18	45°	1.11"	.31"	.30"	.65"	.52"	.31"	9/16"
HI629	1/4"-18	65°	.91"	.34"	.28"	.84"	.52"	.56"	9/16"
HI690	1/4"-18	90°	.95"	.31"	.23"	.72"	.52"	.44"	9/16"

OFTEN USED IN...



COLD WEATHER



WITH HEAVY-DUTY LUBRICANTS

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3/8"-18 PTF

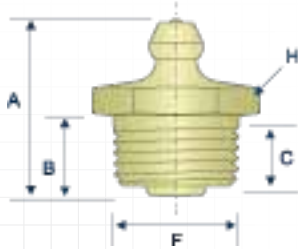
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

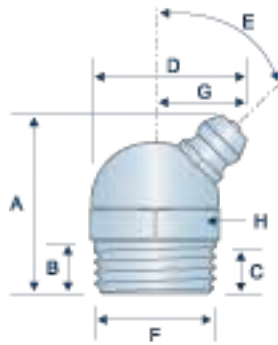
HI114

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



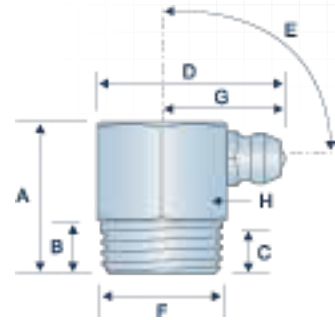
HI115

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



HI116

90° Angle
3/8"-18 PTF Spl. Short
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)
HI114	3/8"-18	STRAIGHT	.90"	.43"	.31"	□	.64"	□	3/4"
HI115	3/8"-18	45°	1.00"	.28"	.22"	.81"	.64"	.53"	17.0 MM
HI116	3/8"-18	90°	.79"	.30"	.22"	1.06"	.64"	.73"	17.0 MM

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

SPECIAL PARALLEL

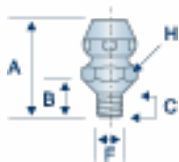
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

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.

H3018

Straight
6-40 UNF
Standard Shank

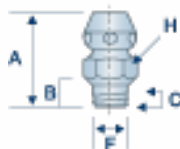


3018

NO BALL CHECK

H369616

Straight
10-32 UNF
Short Shank

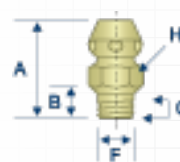


369616

NO BALL CHECK

H3016

Straight
10-32 UNF
Standard Shank



3016

NO BALL CHECK

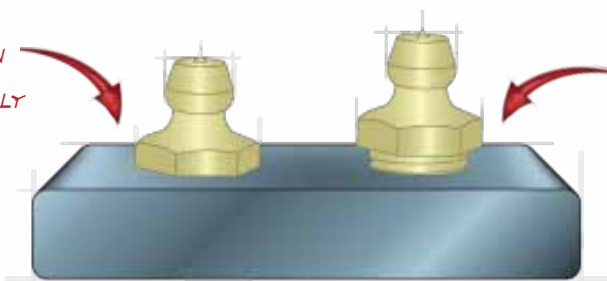
ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
H3018	6-40	STRAIGHT	.50"	.16"	.12"	□	.13"	□	1/4"
H369616	10-32	STRAIGHT	.41"	.12"	.08"	□	.18"	□	1/4"
H3016	10-32	STRAIGHT	.50"	.12"	.10"	□	.18"	□	1/4"

PARALLEL vs. TAPER THREADS

PARALLEL
THREADS

TAPER
THREADS

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

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1/4"-28 PARALLEL

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

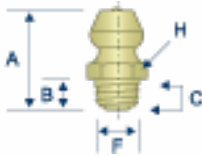
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1792

Straight
1/4"-28 UNF
Standard Shank

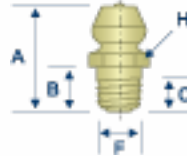


 1792-B
 5521
 JD1842

 AVAILABLE IN STAINLESS

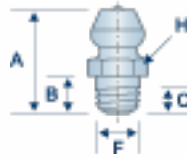
H201601

Straight
1/4"-28 UNF
Precision Shank



H333330

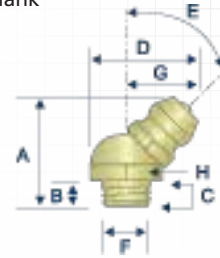
Straight
1/4"-28 UNF
Standard Shank



 333330

H1770

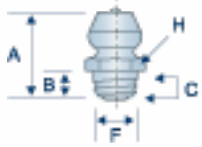
45° Angle
1/4"-28 UNF
Short Shank



 1770-B1

H369609


Straight
1/4"-28 UNF
Short Shank



 369609

UNF 2A THREADS

ALL PARALLEL THREADED
FITTINGS ARE CLASS 2A
UNLESS OTHERWISE NOTED.

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)
H1792 	1/4"-28	STRAIGHT	.48"	.14"	.08"	□	.25"	□	9/32"
H201601	1/4"-28	STRAIGHT	.54"	.22"	.18"	□	.25"	□	5/16"
H1770	1/4"-28	45°	.61"	.13"	.08"	.58"	.25"	.39"	3/8"
H369609	1/4"-28	STRAIGHT	.44"	.13"	.12"	□	.25"	□	5/16"
H333330	1/4"-28	STRAIGHT	.53"	.19"	.12"	□	.25"	□	5/16"



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5/16" PARALLEL

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

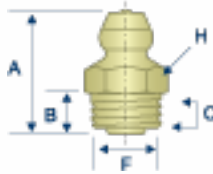
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI711

Straight
5/16"-24 UNF
Short Shank

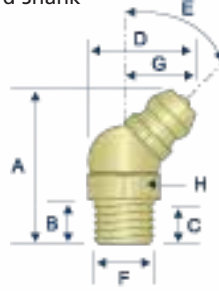


▲ 1711-B

⊕ AVAILABLE IN STAINLESS
⊕ AVAILABLE IN BRASS

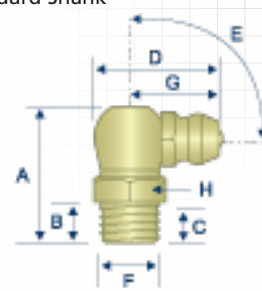
HI712

45° Angle
5/16"-24 UNF
Standard Shank



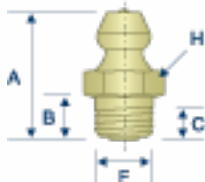
HI713

90° Angle
5/16"-24 UNF
Standard Shank



HI631

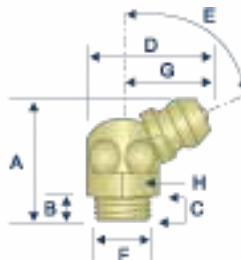
Straight
5/16"-32 UNEF
Standard Shank



▲ 1631-B

HI648

65° Angle
5/16"-32 UNEF
Short Shank



▲ 1648-B1

PLEASE NOTE

THREAD SEALANT IS
RECOMMENDED FOR A TRULY
LEAK-FREE PERFORMANCE.

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)
HI711	5/16"-24	STRAIGHT	.66"	.20"	.12"	□	.31"	□	3/8"
HI712	5/16"-24	45°	.83"	.21"	.17"	.58"	.31"	.39"	3/8"
HI713	5/16"-24	90°	.71"	.21"	.17"	.75"	.31"	.56"	3/8"
HI631	5/16"-32	STRAIGHT	.66"	.22"	.17"	□	.31"	□	3/8"
HI648	5/16"-32	65°	.63"	.13"	.11"	.70"	.31"	.52"	3/8"

3/8" & 1/2" PARALLEL

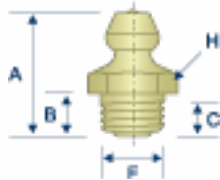
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI110

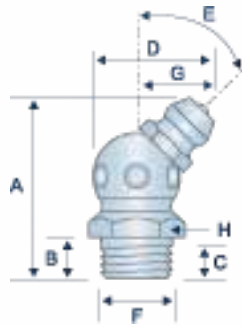
Straight
3/8"-24 UNF
Standard Shank



⊕ AVAILABLE IN STAINLESS
⊕ AVAILABLE IN BRASS

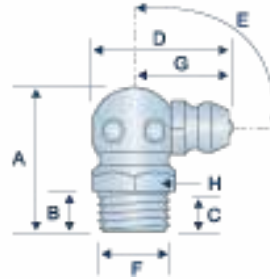
HI109

45° Angle
3/8"-24 UNF
Standard Shank



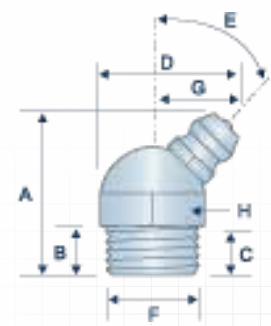
HI108

90° Angle
3/8"-24 UNF
Standard Shank



HI140

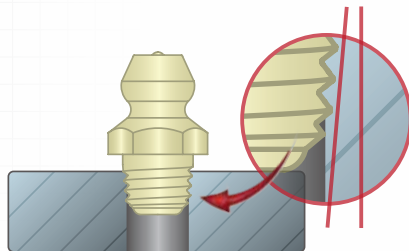
45° Angle
1/2"-20 UNF
Standard Shank



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)
HI110 *	3/8"-24	STRAIGHT	.64"	.24"	.14"	□	.31"	□	7/16"
HI109	3/8"-24	45°	.98"	.22"	.15"	.61"	.31"	.45"	7/16"
HI108	3/8"-24	90°	.79"	.22"	.15"	.76"	.31"	.55"	7/16"
HI140	1/2"-20	45°	.89"	.26"	.15"	.75"	.49"	.41"	9/16"

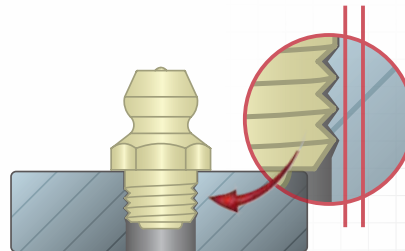
DESIGN FEATURE

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.



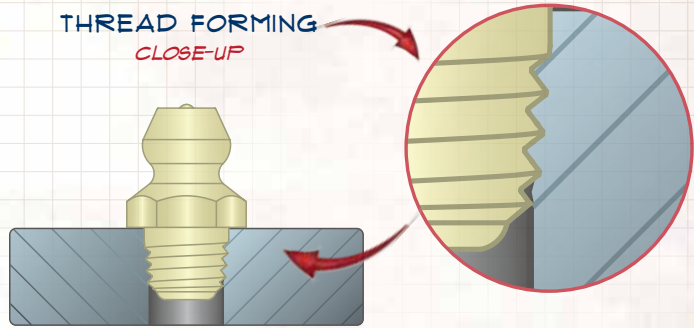
THREAD FORMING

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.

*ALSO KNOWN AS
SELF TAPPING OR SPIN-DRIVE.*

SAE AND G.L. HUYETT RECOMMEND TESTING PRIOR TO THE INTRODUCTION OF THESE FITTINGS INTO ANY APPLICATION.

THREAD FORMING CLOSE-UP



THREAD FORMING FITTINGS DISPLACE MATERIAL INSTEAD OF REMOVING IT. THE PROCESS IS CLEANER, CHEAPER, EASIER AND PRODUCES SUPERIOR RESULTS WHEN COMPARED TO CONVENTIONAL TAPPING METHODS.

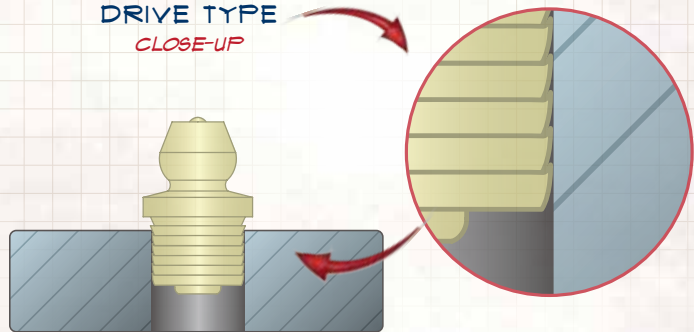
DRIVE TYPE



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.

SAE AND G.L. HUYETT RECOMMEND TESTING PRIOR TO THE INTRODUCTION OF THESE FITTINGS INTO ANY APPLICATION.

DRIVE TYPE CLOSE-UP



UPON INSTALLATION, THE SERRATIONS DEFORM TO GRIP THE MATERIAL'S SURFACE AND PROVIDE A LEAK-FREE SEAL.

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

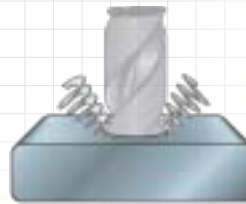
Reduce installation costs and complementary manufacturing costs by modifying your assembly application to use automatic installation fittings.

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.

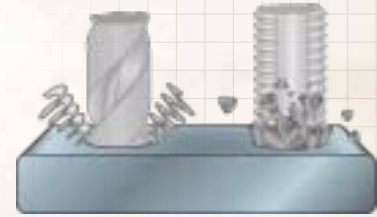
TAPPING IS NOT NECESSARY WITH AUTOMATIC INSTALLATION FITTINGS.

AUTOMATIC INSTALLATION FITTINGS



SIMPLE ONE STEP PROCESS.

CONVENTIONAL FITTINGS



TAPPING REQUIRES A SECOND OPERATION, INCREASING TIME AND COSTS.

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.

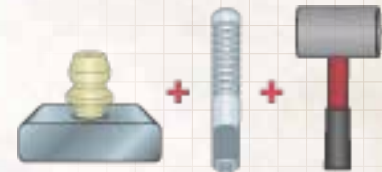
INSTALL DRIVE TYPE FITTINGS WITH DRIVE TOOLS FOUND ON PAGE 31.

THREAD FORMING FITTINGS



THREAD FORMING GREASE FITTING CAN BE INSTALLED WITH AN AIR RATCHET.

DRIVE TYPE FITTINGS



DRIVE TYPE GREASE FITTINGS ARE INSTALLED USING A DRIVE TOOL AND A 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.

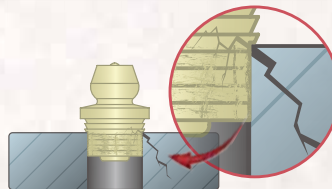
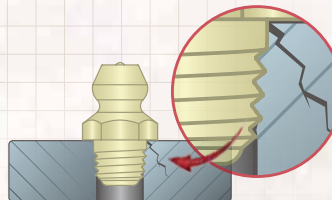
THE DRILL SIZES PROVIDED IN THIS CATALOG ARE APPROXIMATIONS ONLY. THE EXACT DRILL SIZE MAY VARY WITH YOUR APPLICATION AND MATERIAL.

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.

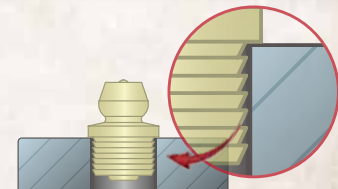
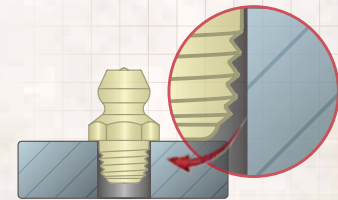
UNDERSIZED HOLE

BRITTLE MATERIAL MAY BE DAMAGED IF FITTING IS INSTALLED INTO AN UNDERSIZED HOLE.



OVERSIZED HOLE

A FITTING INSTALLED IN AN OVERSIZED HOLE WILL NOT CREATE A TIGHT SEAL.



THREAD FORMING

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

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.

H3038

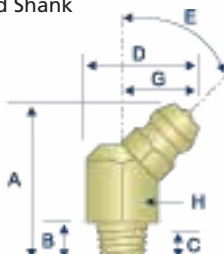
Straight
1/4"-28 Thread Forming
Standard Shank



3038-B
 205010
 JD1844

H3053

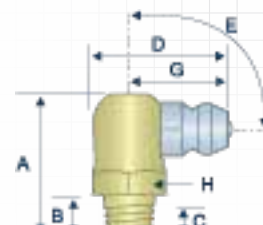
45° Angle
1/4"-28 Thread Forming
Standard Shank



3053-B
 205210
 JD1846

H3054

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



3054-B
 205410
 ET17123

H369582

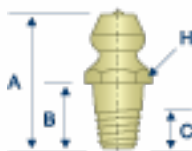
Straight
1/4"-28 Thread Forming
Short Shank



369582

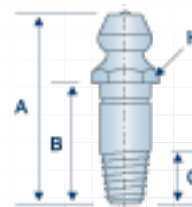
H3039

Straight
1/4"-28 Thread Forming
Long Shank



H369584

Straight
1/4"-28 Thread Forming
Long Shank



369584

ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
H3038 *	1/4"-28	STRAIGHT	.55"	.19"	.10"	□	□	5/16"
H3053 *	1/4"-28	45°	.81"	.19"	.10"	.58"	.39"	3/8"
H3054 *	1/4"-28	90°	.75"	.19"	.16"	.66"	.47"	3/8"
H369582	1/4"-28	STRAIGHT	.51"	.15"	.12"	□	□	9/32"
H3039	1/4"-28	STRAIGHT	.67"	.36"	.16"	□	□	5/16"
H369584	1/4"-28	STRAIGHT	.91"	.63"	.21"	□	□	5/16"

NOTE: 1/4"-28 APPROXIMATE HOLE SIZE ϕ .230- ϕ .235"

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

THREAD FORMING

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

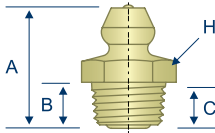
SAE J534

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

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI 720

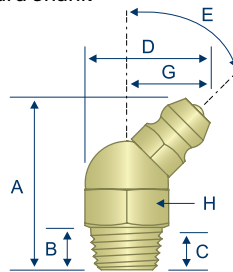
Straight
1/8"-27 Thread Forming
Standard Shank



▲ 1720-B
L 205000
J 77798

HI 724

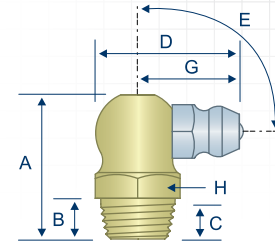
45° Angle
1/8"-27 Thread Forming
Standard Shank



▲ 1724-B
L 205200
J 77847

HI 723

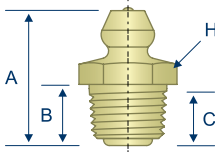
90° Angle
1/8"-27 Thread Forming
Standard Shank



▲ 1723-B
L 205400
J 77799

H369579

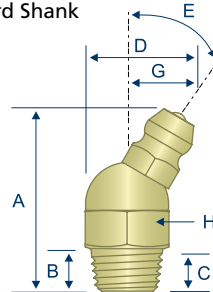
Straight
1/8"-27 Thread Forming
Long Shank



▲ 369579
L 247235
J 162396

HI 721

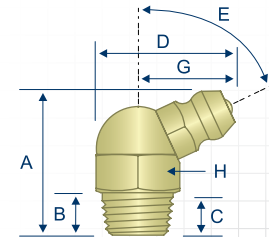
30° Angle
1/8"-27 Thread Forming
Standard Shank



J 77808

HI 722

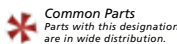
65° Angle
1/8"-27 Thread Forming
Standard Shank



▲ 1722-B

ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
HI 720	1/8"-27	STRAIGHT	.62"	.24"	.14"	—	—	7/16"
HI 724	1/8"-27	45°	.92"	.20"	.14"	.62"	.40"	7/16"
HI 723	1/8"-27	90°	.76"	.20"	.14"	.72"	.50"	7/16"
H369579	1/8"-27	STRAIGHT	.70"	.32"	.21"	—	—	7/16"
HI 721	1/8"-27	30°	.91"	.19"	.14"	.56"	.34"	7/16"
HI 722	1/8"-27	65°	.78"	.21"	.17"	.72"	.50"	7/16"

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



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DRIVE TYPE

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

SAE J534

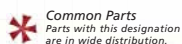
Like thread forming fittings, drive type fittings have an advantage of not needing a threaded hole, therefore decreasing the cost of installation. See pages 30-31 for a detailed explanation of the difference between drive type and thread forming fittings. Small diameter shanks are for extra-light-duty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

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H3019 Straight Drive Type ≈ 1/8" Drill Size Standard Shank</p> <p>A 3019 NO BALL CHECK</p>	<p>H1736 Straight Drive Type ≈ 1/8" Drill Size Long Shank</p> <p>A 1736-A NO BALL CHECK</p>	<p>H5012 Straight Drive Type ≈ 5/32" Drill Size Long Shank</p> <p>L 5012 NO BALL CHECK</p>	<p>H3009 Straight Drive Type ≈ 3/16" Drill Size Short Shank</p> <p>A 3009 NO BALL CHECK</p>
<p>H3005 Straight Drive Type ≈ 3/16" Drill Size Standard Shank</p> <p>A 3005 NO BALL CHECK L 700375 M87259</p>	<p>H3006 Straight Drive Type ≈ 3/16" Drill Size Standard Shank</p> <p>A 3006 NO BALL CHECK</p>	<p>H1728 Straight Drive Type ≈ 3/16" Drill Size Long Shank</p> <p>A 1728-B + AVAILABLE IN STAINLESS L 5033</p>	<p>H1633 Straight Drive Type ≈ 3/16" Drill Size Long Shank</p> <p>A 1633 NO BALL CHECK</p>

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H3019	≈ 1/8" DRILL	STRAIGHT	.41"	.16"	□	□	5/16"	NO
H1736	≈ 1/8" DRILL	STRAIGHT	.56"	.25"	□	□	5/16"	NO
H5012	≈ 5/32" DRILL	STRAIGHT	.56"	.25"	□	□	5/16"	NO
H3009	≈ 3/16" DRILL	STRAIGHT	.39"	.10"	□	□	5/16"	NO
H3005 *	≈ 3/16" DRILL	STRAIGHT	.41"	.17"	□	□	5/16"	NO
H3006 *	≈ 3/16" DRILL	STRAIGHT	.48"	.22"	□	□	9/32"	NO
H1728 *	≈ 3/16" DRILL	STRAIGHT	.52"	.25"	□	□	5/16"	YES
H1633	≈ 3/16" DRILL	STRAIGHT	.63"	.25"	□	□	5/16"	NO

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.



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DRIVE TYPE

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

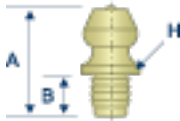
SAE J534

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

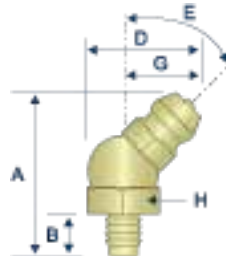
H100504

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



H1992

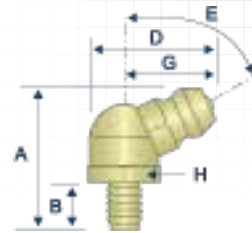
45° Angle Drive Type
≈ 3/16" Drill Size
Standard Shank



▲ 1992-B1

H1646

65° Angle Drive Type
≈ 3/16" Drill Size
Standard Shank



▲ 1646-B1
L 5385

H369591

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

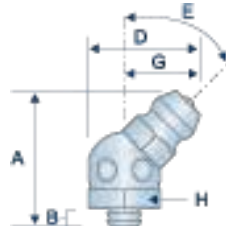


▲ 369591

⊘ NO BALL CHECK

H369580

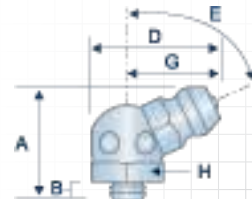
45° Angle Drive Type
≈ 3/16" Drill Size
Short Shank



▲ 369580

H369545

65° Angle Drive Type
≈ 3/16" Drill Size
Short Shank



▲ 369545

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H100504	≈ 3/16" DRILL	STRAIGHT	.48"	.11"	□	□	5/16"	YES
H1992	≈ 3/16" DRILL	45° □	.83"	.22"	.58"	.39"	3/8" HEX	YES
H1646	≈ 3/16" DRILL	65° □	.70"	.22"	.66"	.41"	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
H369545	≈ 3/16" DRILL	65° □	.58"	.09"	.61"	.48"	3/8" HEX	YES

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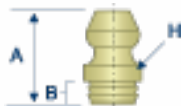



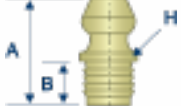




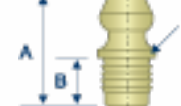




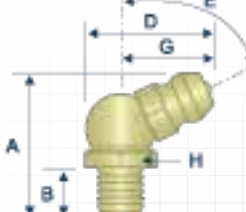









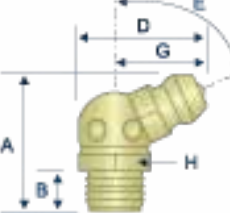


DRIVE TYPE


EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE


<p>H1952 </p> <p>Straight Drive Type ≈ 1/4" Drill Size Short Shank</p>  <p> 1952-A  NO BALL CHECK  700313</p>	<p>H321381</p> <p>Straight Drive Type ≈ 1/4" Drill Size Long Shank</p>  <p> 321381  NO BALL CHECK  5044</p>	<p>H1743 </p> <p>Straight Drive Type ≈ 1/4" Drill Size Long Shank</p>  <p> 369577  AVAILABLE IN STAINLESS  5029  JD1849</p>	<p>H1744</p> <p>65° Angle Drive Type ≈ 1/4" Drill Size Long Shank</p>  <p> 1744-B1  5318</p>
<p>H1608 </p> <p>Straight Drive Type ≈ 5/16" Drill Size Standard Shank</p>  <p> 1608-B  5031</p>	<p>H1699</p> <p>Straight Drive Type ≈ 5/16" Drill Size Standard Shank</p>  <p> 1699  NO BALL CHECK</p>	<p>H1630</p> <p>65° Angle Drive Type ≈ 5/16" Drill Size Standard Shank</p>  <p> 1630-B1</p>	<p>DRIVE TOOLS G.L. HUYETT RECOMMENDS USING DRIVE TOOLS FOR PROPER INSTALLATION. SEE NEXT PAGE FOR DETAILS.</p> 

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H1952 	≈ 1/4" DRILL	STRAIGHT	.41"	.13"	□	□	11/32"	NO
H321381	≈ 1/4" DRILL	STRAIGHT	.55"	.25"	□	□	11/32"	NO
H1743 	≈ 1/4" DRILL	STRAIGHT	.58"	.26"	□	□	11/32"	YES
H1744	≈ 1/4" DRILL	65°	.76"	.28"	.66"	.41"	3/8" HEX	YES
H1608 	≈ 5/16" DRILL	STRAIGHT	.55"	.25"	□	□	3/8"	YES
H1699	≈ 5/16" DRILL	STRAIGHT	.63"	.22"	□	□	11/32"	NO
H1630	≈ 5/16" DRILL	65°	.70"	.22"	.66"	.41"	3/8" HEX	YES

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

DRIVE TYPE

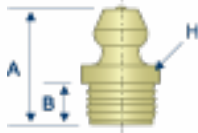
EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

SAE J534

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.

H1666

Straight Drive Type
≈ 3/8" Drill Size
Standard Shank

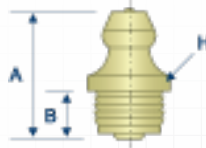


1666

NO BALL CHECK

H5036

Straight Drive Type
≈ 3/8" Drill Size
Standard Shank



5036

PLEASE NOTE

DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY. THE EXACT DRILL SIZE FOR DRIVE TYPE FITTINGS MAY VARY WITH YOUR APPLICATION AND MATERIAL.

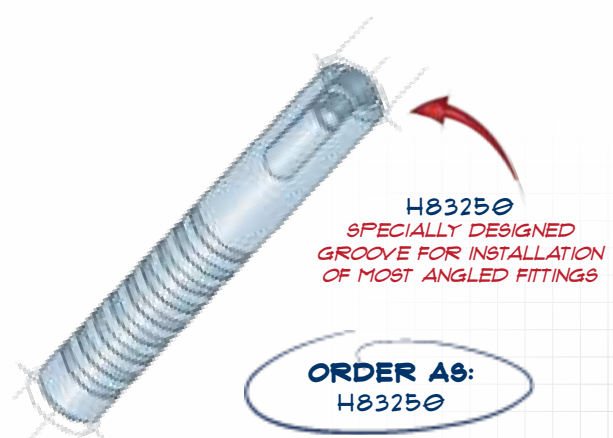
SAE AND G.L. HUYETT RECOMMEND TESTING TO ENSURE RELIABILITY IN THE FIELD.

DRIVE TYPE FITTINGS ARE NOT RECOMMENDED FOR HIGH-PRESSURE APPLICATIONS.

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H1666	≈ 3/8" DRILL	STRAIGHT	.58"	.22"	□	□	7/16"	NO
H5036	≈ 3/8" DRILL	STRAIGHT	.66"	.25"	□	□	7/16"	YES

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.



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SPECIAL USE FITTINGS

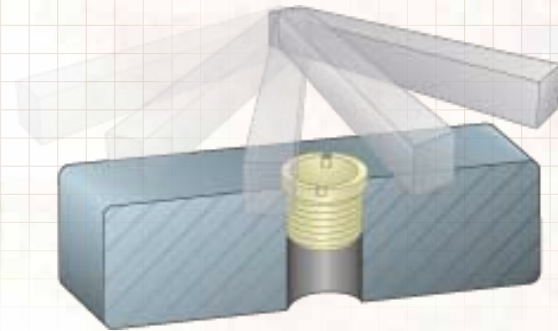
Special use fittings possess unique designs for specific installation, servicing or performance applications. Our Machine Shop will produce nearly any type of grease fitting for your application.



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.



FLUSH TYPE FITTINGS ARE IDEAL FOR APPLICATIONS WITH HARD TO LUBRICATE AREAS AND/OR IN LOW CLEARANCE AREAS.

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.

CONVENTIONAL FITTING



STANDARD FITTINGS CAN BE DAMAGED BY REPETITIVE ABUSE FROM HARSH ENVIRONMENTS.

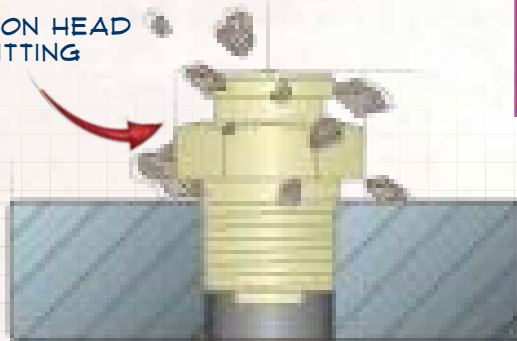


HEAVY DUTY BUTTON HEAD

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.

BUTTON HEAD FITTING



BUTTON HEAD FITTINGS ARE DESIGNED TO WITHSTAND REPETITIVE ABUSE FROM HARSH ENVIRONMENTS.



FLUSH TYPE

EXCEEDS 12 HR SALT SPRAY.

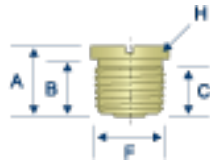
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI815

Straight Flush Type
1/8"-27 NPTF



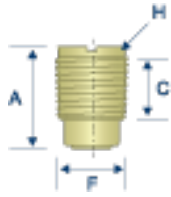
DETAIL

 1815

SLOTTED

HI452

Straight Flush Type
1/8"-27 NPTF



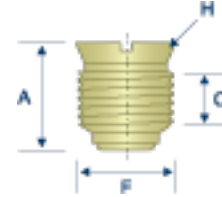
DETAIL

 1452

SLOTTED

HZ141

Straight Flush Type
1/4"-18 NPTF



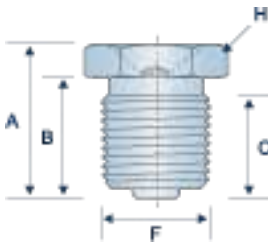
DETAIL

 Z141-A

SLOTTED

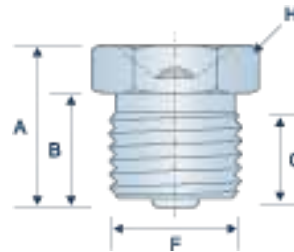
HI841

Straight Flush Type
3/8"-18 NPTF



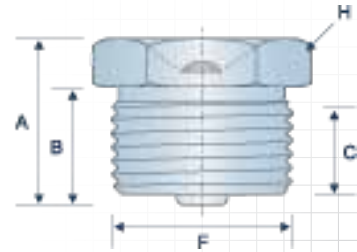
HI842

Straight Flush Type
1/2"-14 NPTF

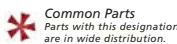


HI843

Straight Flush Type
3/4"-14 NPTF



ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
HI815 	1/8"-27	.36"	.30"	.22"	.39"	13/32" SLOTTED
HI452	1/8"-27	.53"	□	.28"	.39"	Ø.39" SLOTTED
HZ141	1/4"-18	.56"	□	.26"	.52"	Ø.54" SLOTTED
HI841	3/8"-18	.81"	.63"	.38"	.64"	3/4"
HI842	1/2"-14	.85"	.60"	.38"	.82"	7/8"
HI843	3/4"-14	.81"	.60"	.38"	1.01"	1"



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FLUSH TYPE

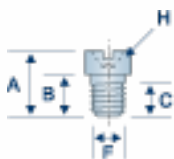
EXCEEDS 12 HR SALT SPRAY.

PARALLEL THREADS

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.

H7502

Straight Flush Type
10-32 UNF

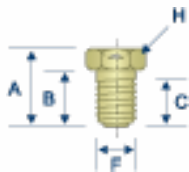


 326314
 700502A

SLOTTED

H1851

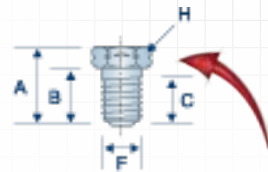
Straight Flush Type
1/4"-28 UNF



 1851
 700332

H369610

Straight Flush Type
1/4"-28 UNF

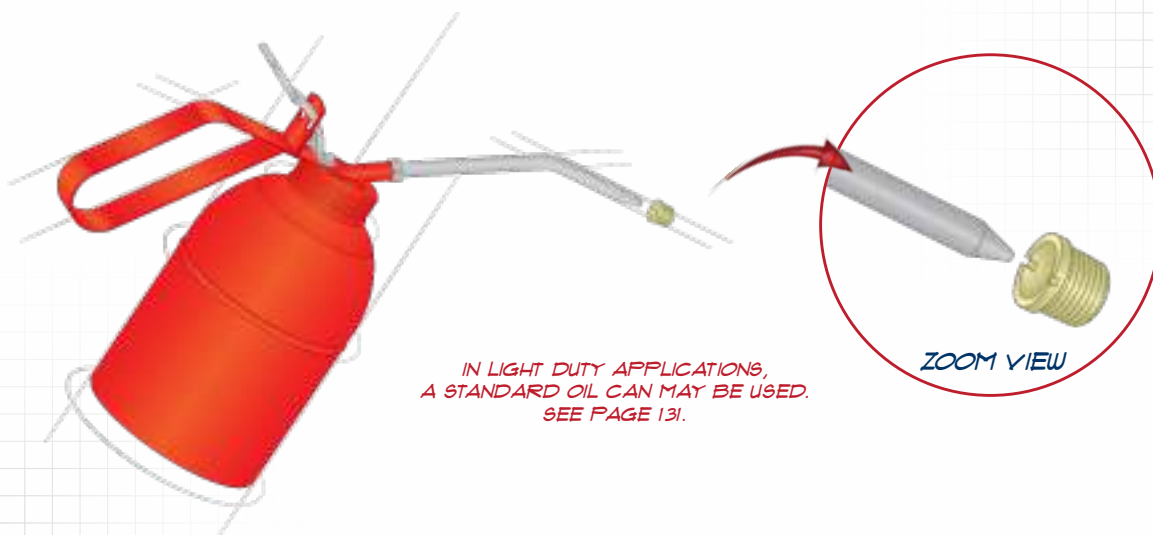


 369610


SINGLE NOTCH


ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H7502 *	10-32	.34"	.23"	.15"	.18"	1/4" SLOTTED
H1851	1/4"-28	.41"	.30"	.19"	.25"	5/16"
H369610	1/4"-28	.42"	.30"	.24"	.25"	5/16"

SERVICE SUGGESTION



IN LIGHT DUTY APPLICATIONS,
A STANDARD OIL CAN MAY BE USED.
SEE PAGE 131.

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

FLUSH TYPE

EXCEEDS 12 HR SALT SPRAY.

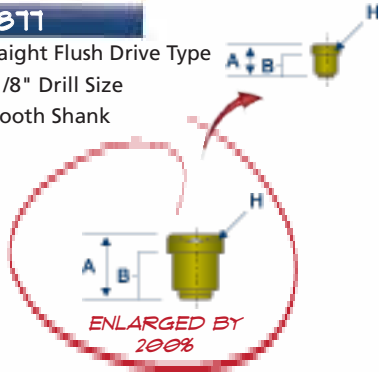
DRIVE TYPE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1877

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

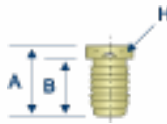


▲ 1877
 L 700397

CADMIUM
 ✦ AVAILABLE IN MONEL®

H3036

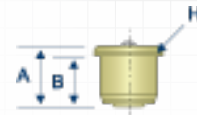
Straight Flush Drive Type
 ≈ 3/16" Drill Size
 Serrated Shank



▲ 3036

H1814

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



▲ 1814

H369604

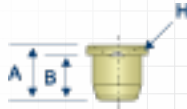
Straight Flush Drive Type
 ≈ 1/4" Drill Size
 Serrated Shank



▲ 369604

H1885

Straight Flush Drive Type
 ≈ 1/4" Drill Size
 Smooth Shank



▲ 1885
 L 700502



PLEASE NOTE

HOLE SIZES PROVIDED
 ARE FOR REFERENCE.
 G.L. HUYETT RECOMMENDS
 TESTING TO ENSURE
 RELIABILITY IN THE FIELD.

ITEM #	DRILL 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	.11"	.13"	□	□	5/32"
H3036	≈ 3/16" DRILL	SERRATED SHANK	.31"	.31"	□	□	1/4"
H1814	≈ 5/16" DRILL	SMOOTH SHANK	.33"	.28"	□	□	3/8"
H369604	≈ 1/4" DRILL	SERRATED SHANK	.34"	.33"	□	□	5/16"
H1885	≈ 1/4" DRILL	SMOOTH SHANK	.28"	.23"	□	□	5/16"

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BUTTON HEAD - BALL CHECK

EXCEEDS 12 HR SALT SPRAY.
6,000 PSI MAX PRESSURE.

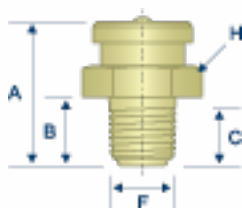
6,000 PSI

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1184

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

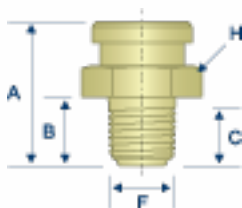


5701

AVAILABLE IN STAINLESS

H1184N

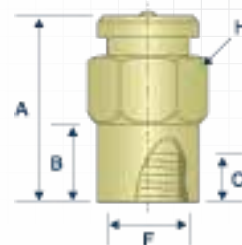
Button Head - Standard
1/8"-27 NPTF
No Ball Check



NO BALL CHECK

HC69

Button Head - Standard
1/8"-27 NPTF
Ball Check

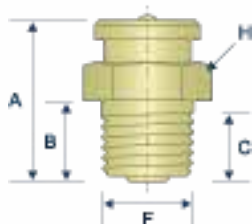


C69

FEMALE THREADS

H1186

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

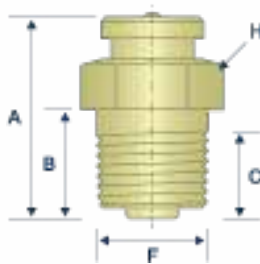


5706

AVAILABLE IN STAINLESS

H1188

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

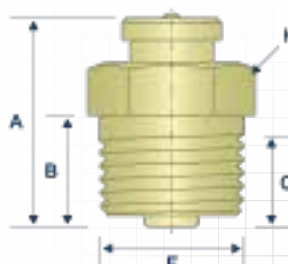


5711

AVAILABLE IN STAINLESS

H1190

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



ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
H1184 *	1/8"-27	.75"	.34"	.18"	.39"	5/8"	BALL CHECK
H1184N	1/8"-27	.75"	.34"	.18"	.39"	5/8"	NO BALL CHECK
HC69	1/8"-27	.91"	.41"	.28"	.39"	5/8"	BALL CHECK
H1186 *	1/4"-18	.85"	.44"	.31"	.52"	5/8"	BALL CHECK
H1188 *	3/8"-18	1.06"	.59"	.41"	.64"	3/4"	BALL CHECK
H1190	1/2"-14	1.09"	.56"	.36"	.82"	1/8"	BALL CHECK

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BUTTON HEAD - PLUNGER CHECK

EXCEEDS 12 HR SALT SPRAY.
6,000 PSI MAX PRESSURE.

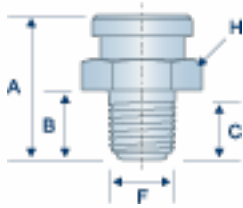
6,000 PSI

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HA1184

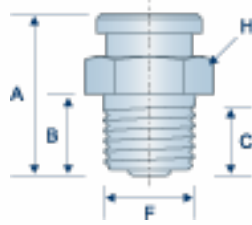
Button Head - Standard
1/8"-27 PTF Spl. Short
Plunger Check



 A1184 + AVAILABLE IN STAINLESS

HA1186

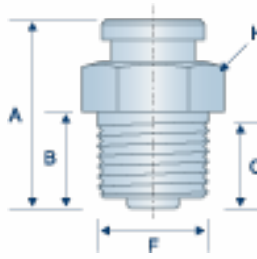
Button Head - Standard
1/4"-18 NPTF
Plunger Check



 A1186

HA1188

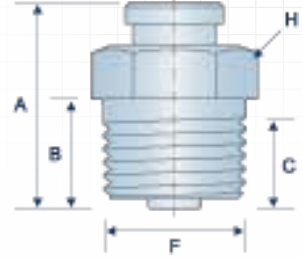
Button Head - Standard
3/8"-18 NPTF
Plunger Check



 A1188

HA1190

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



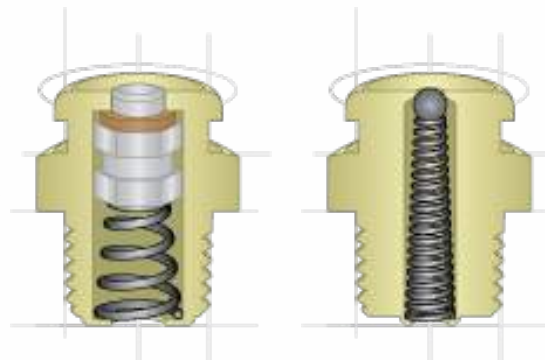
 A1190

ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
HA1184	1/8"-27	.75"	.34"	.22"	.39"	5/8"	PLUNGER CHECK
HA1186	1/4"-18	.83"	.42"	.40"	.52"	5/8"	PLUNGER CHECK
HA1188	3/8"-18	.95"	.48"	.41"	.64"	3/4"	PLUNGER CHECK
HA1190	1/2"-14	1.06"	.55"	.53"	.82"	7/8"	PLUNGER CHECK

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

BUTTON HEAD - HEX-HEAD

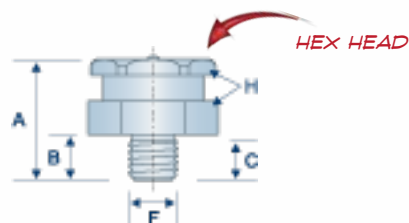
EXCEEDS 12 HR SALT SPRAY.
6,000 PSI MAX PRESSURE.

6,000 PSI

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.

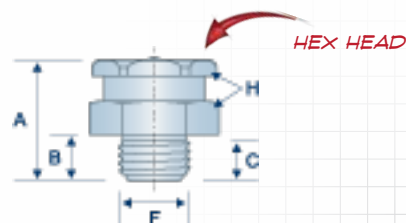
HX1182

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



HX1186

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



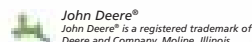
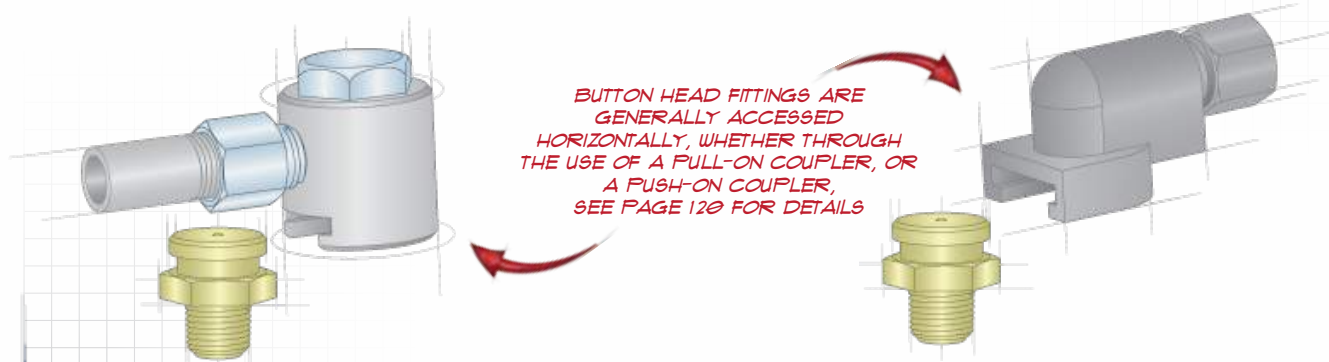
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
HX1182	1/4"-28	.63"	.24"	.15"	.25"	15.0 MM	BALL CHECK
HX1186	3/8"-24	.63"	.24"	.15"	.31"	15.0 MM	BALL CHECK

COUPLER COMPATIBILITY

PULL-ON
COUPLER

PUSH-ON
COUPLER



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BUTTON HEAD

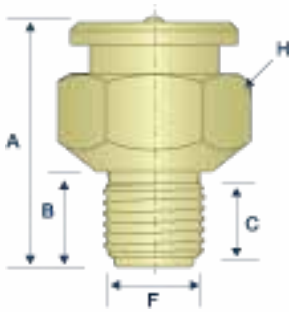
HEAVY DUTY

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

HI823

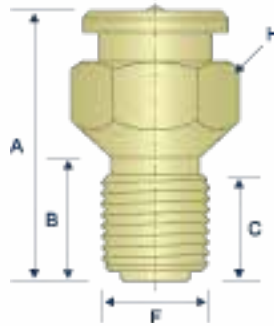
Button Head - Heavy Duty
1/4"-18 NPTF
Ball Check



▲ 1823-1

HI822

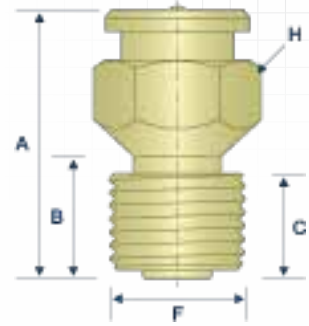
Button Head - Heavy Duty
3/8"-18 NPTF
Ball Check



▲ 1822-A1

HI820

Button Head - Heavy Duty
1/2"-14 NPTF
Ball Check



▲ 1820-1

† AVAILABLE IN STAINLESS

ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
HI823	1/4"-18	1.31"	.50"	.40"	.52"	7/8"	BALL CHECK
HI822	3/8"-18	1.41"	.64"	.48"	.64"	7/8"	BALL CHECK
HI820	1/2"-14	1.41"	.61"	.51"	.82"	7/8"	BALL CHECK

BUTTON HEAD SIZE CHART

STANDARD BUTTON HEAD



5/8"
ROUND

16 MM
ROUND

15 MM
HEX

BUTTON HEAD FITTINGS ARE OFFERED IN A VARIETY OF HEAD SIZES.

G.L. HUYETT'S STANDARD BUTTON HEAD COUPLERS ARE SPECIALLY ENGINEERED TO ACCOMMODATE ALL STANDARD SIZES.

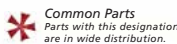
HEAVY DUTY COUPLERS WILL ACCOMMODATE ALL HEAVY DUTY SIZES.

HEAVY DUTY BUTTON HEAD



1 1/8"
ROUND

22 MM
ROUND



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SPECIAL USE FITTINGS

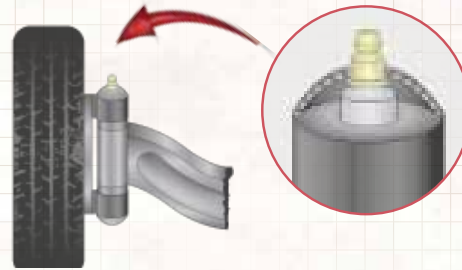
Special use fittings possess unique designs for specific installation, servicing or performance applications. Our Machine Shop will manufacture nearly any grease fitting in any material. Contact our Sales Team for details.



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.

RIVET TYPE FITTINGS USE STANDARD COUPLERS FOUND ON PAGES 118-119.



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

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



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

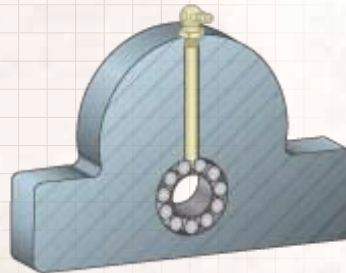
PLUGS CAN REPLACE GREASE FITTINGS IN SERVICE LOCATIONS THAT ARE NO LONGER NEEDED.



DEEP SEATED

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.

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



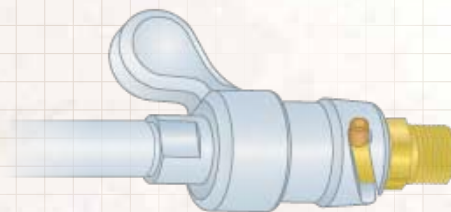
DEEP SEATED FITTINGS ALLOW LUBRICATION TO BEARINGS WITH EXCEPTIONALLY THICK HOUSINGS.

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.

USE WITH PIN TYPE COUPLERS FOUND ON PAGE 121.



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

RIVET TYPE

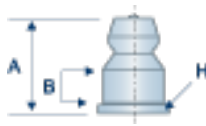
EXCEEDS 12 HR SALT SPRAY.

SAE J534

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.

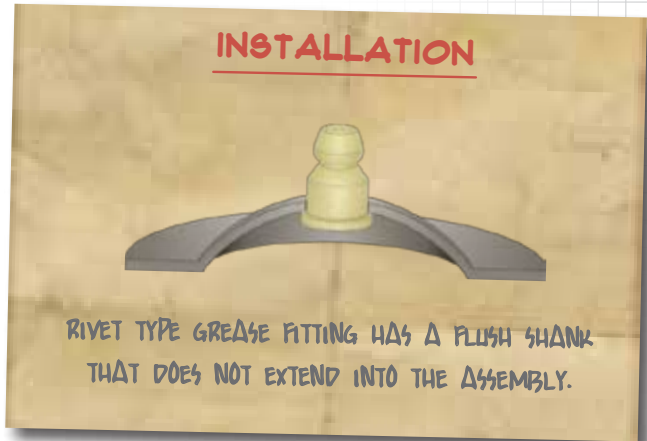
H1675

Straight Rivet Type
≈ 5/16" Drill Size



 1675-B

DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY



TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H1675	≈ 5/16" DRILL	STRAIGHT	.50"	.15"	□	□	3/8"	YES

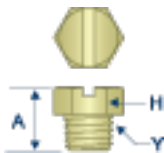
SPECIAL PLUGS

SAE J534

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 H369588 and H700337 are thread forming plugs and are designed for an opening with damaged threads or holes with no threads.

H328224

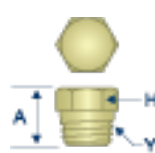
Plug - Slotted Hex Head
1/4"-28 SAE-LT



 328224

H700337

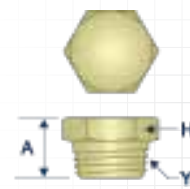
Plug - Hex Head
1/4"-28 Thread Forming



 328435
 700337

H369588

Plug - Hex Head
1/8"-27 Thread Forming



 369588

ITEM #	THREAD (Y)	OVERALL LENGTH (A)	HEX (H)
H328224	1/4"-28 SAE-LT	.33"	5/16" SLOTTED HEX HEAD
H700337	1/4"-28 THREAD FORMING	.31"	9/32"
H369588	1/8"-27 THREAD FORMING	.32"	7/16"

 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.

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DEEP SEATED

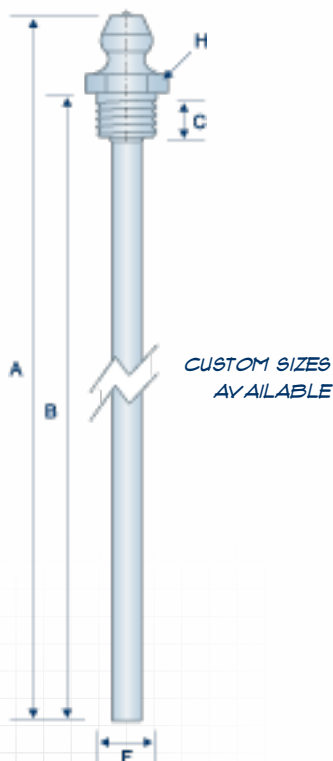
SAE J534

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

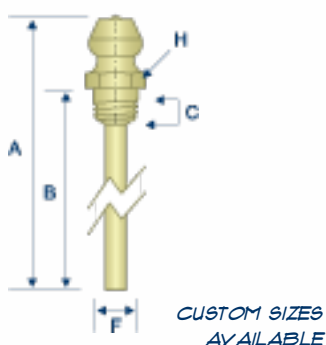
H4711

Straight Deep Seated
5/16"-24 UNF



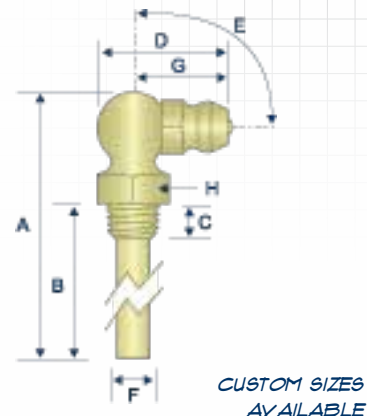
H4641

Straight Deep Seated
1/4"-28 Taper Thread



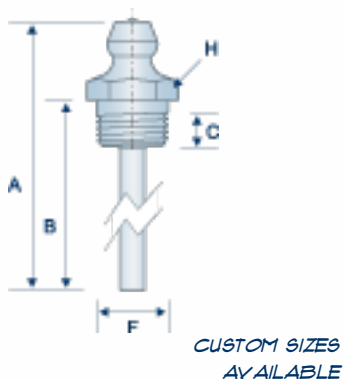
H4911

90° Angle Deep Seated
1/4"-28 Taper Thread



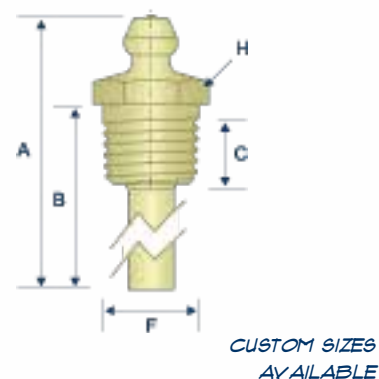
H4610

Straight Deep Seated
1/8"-27 NPTF

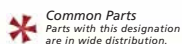


H4621

Straight Deep Seated
1/4"-18 PTF SAE Short



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)
H4711	5/16"-24	STRAIGHT	CUSTOM		.30"	□	.31"	□	9.0 MM
H4641	1/4"-28	STRAIGHT	CUSTOM		.10"	□	.25"	□	5/16"
H4911	1/4"-28	90° □	CUSTOM		.16"	.68"	.25"	.45"	3/8"
H4610	1/8"-27	STRAIGHT	CUSTOM		.30"	□	.39"	□	7/16"
H4621	1/4"-18	STRAIGHT	CUSTOM		.34"	□	.52"	□	9/16"



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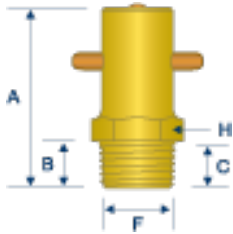
PIN TYPE

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 121, around both ends of the pin to create a leak-proof seal.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HM336

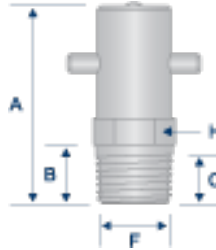
Straight Pin Type
1/8"-27 PTF Spl. Short
Standard Shank



M336 BRASS WITH MONEL® PIN

HA336

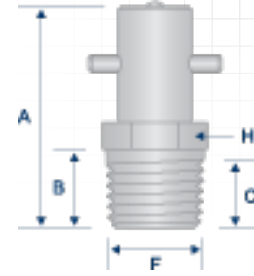
Straight Pin Type
1/8"-27 NPTF
Standard Shank



A336 NICKEL PLATED BRASS

HA359

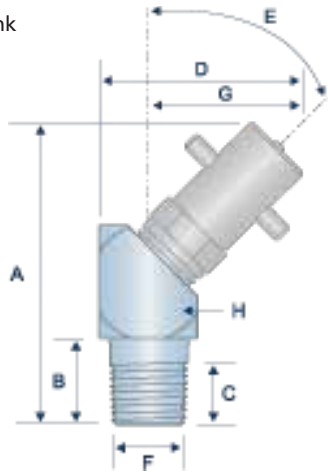
Straight Pin Type
1/4"-18 NPTF
Standard Shank



A359 NICKEL PLATED BRASS

HA684

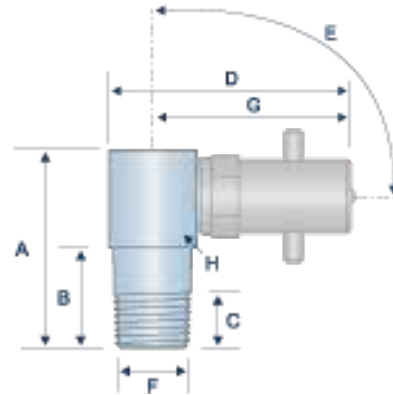
45° Angle Pin Type
1/8"-27 NPTF
Standard Shank



A684 NICKEL PLATED BRASS
ZINC PLATED STEEL ELBOW

HA358

90° Angle Pin Type
1/8"-27 NPTF
Standard Shank



A358 NICKEL PLATED BRASS
ZINC PLATED STEEL ELBOW

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)
HM336	1/8"-27	STRAIGHT	.97"	.27"	.19"	□	.39"	□	7/16"
HA336 *	1/8"-27	STRAIGHT	1.06"	.29"	.20"	□	.39"	□	7/16"
HA359	1/4"-18	STRAIGHT	1.18"	.41"	.25"	□	.52"	□	14.0 MM
HA684	1/8"-27	45°	1.61"	.46"	.30"	1.10"	.39"	.85"	1/2"
HA358	1/8"-27	90°	1.06"	.60"	.25"	1.42"	.39"	1.17"	1/2"
HA360	1/4"-18	45°	1.75"	.60"	.41"	1.10"	.52"	.85"	9/16"
HA361	1/4"-18	90°	1.31"	.60"	.41"	1.42"	.52"	1.17"	9/16"

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PRESSURE CONTROL

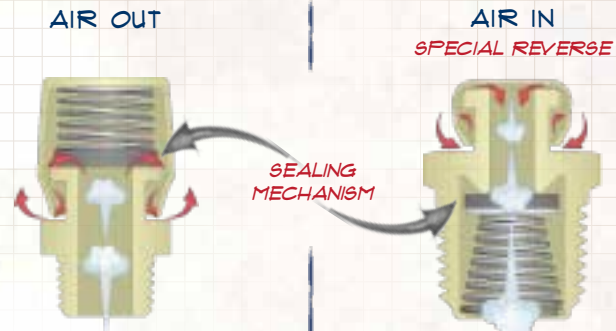
There are three groups of pressure control fittings: vents, breathers and relief vents. Breathers do not restrict airflow and allow the gearbox to "breathe" in and out. Vents are different from breathers because air is only allowed to flow in one direction, and the vent closes to prevent airflow in the 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.

VENT FITTINGS ARE AVAILABLE IN TWO STYLES - REGULAR AND REVERSE FLOW. SEE PAGES 52-54.



THE VENT OPENS AND CLOSES AT A PREDETERMINED PRESSURE. THE VENT SEALS SO THAT AIR IS ONLY ALLOWED TO MOVE OUT OF THE ASSEMBLY.

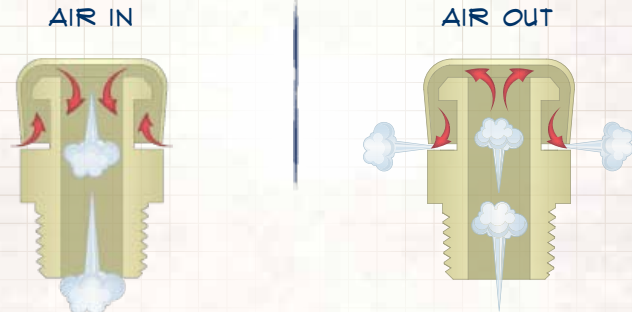
THE VENT REMAINS CLOSED, BUT THEN OPENS WHEN INTERNAL VACUUM BUILDS TO A PREDETERMINED LEVEL, AND AIR CAN FLOW INTO THE ASSEMBLY.

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.

BREATHERS ALLOW A COMPONENT TO "INHALE" AND "EXHALE." SEE PAGE 55.



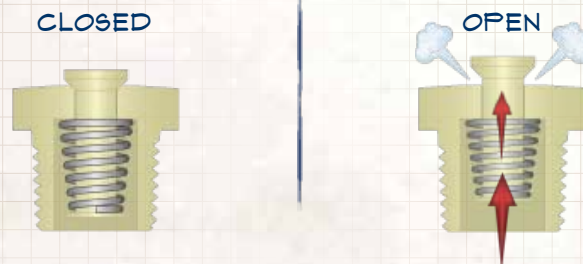
BREATHERS DO NOT RESTRICT AIRFLOW KEEPING THE INTERNAL PRESSURE AT A SAFE OPERATING LEVEL.



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.

RELIEF VALVES ARE AVAILABLE IN BOTH A TOP VENT AND SIDE VENT DESIGN. SEE PAGES 56-57.



THE BASIC DESIGN CONSISTS OF A PRE-ENGINEERED SPRING THAT CONTROLS A POP-UP VALVE. AT PEAK PERFORMANCE, THE VALVE IS CLOSED, SEALING THE BEARING.

ONCE INTERNAL PRESSURES REACH THE PREDETERMINED OPENING PSI, THE POP-UP VALVE ENGAGES AND THE FITTING ALLOWS PRESSURE TO ESCAPE.

PRESSURE CONTROL

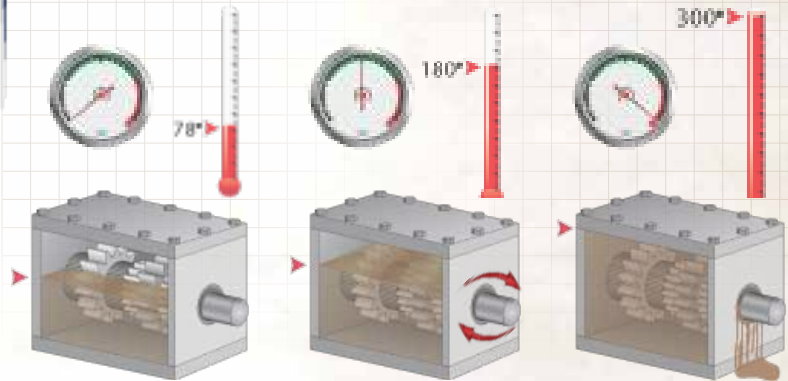
Pressure control fittings are designed to maintain selected pressures inside of gearboxes and bearing housings. These fittings are designed in a variety of styles and types. For custom designs, please contact our Sales Team for details.

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.



IN A REST CONDITION, FLUID AND GASES INSIDE THE GEARBOX ARE AMBIENT.

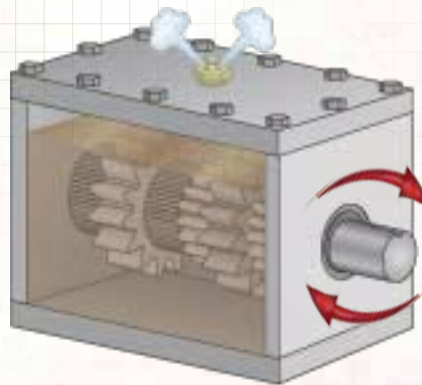
WHILE IN OPERATION, THE TEMPERATURE INSIDE THE GEARBOX INCREASES CAUSING FLUID LEVELS & PRESSURES TO RISE.

IF NOT MONITORED, THE INCREASED PRESSURE CAN BLOWOUT SEALS.

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

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VENT

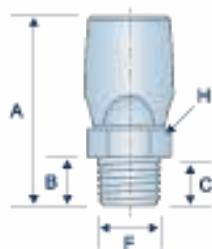
EXCEEDS 12 HR SALT SPRAY.

1/8" PTF

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.

H304810

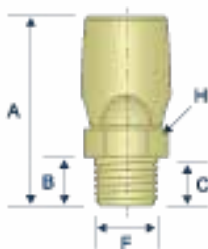
Vent
1/8"-27 PTF SAE Short
Opening Range 0.04-0.11 psi



 304810

H131000

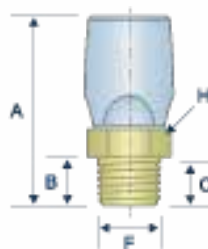
Vent
1/8"-27 PTF SAE Short
Opening Range 0.43 psi max



 131000-T
 JD5801

H327240

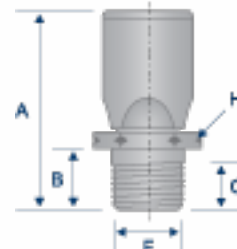
Vent
1/8"-27 PTF SAE Short
Opening Range 1-1.5 psi



 327240

H369606S

Vent
1/8"-27 PTF SAE Short
Opening Range 1-2 psi



 369606 

SINGLE NOTCH-
FOR POSITIVE
STAINLESS STEEL ID

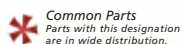
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ITEM #	THREAD	OPENING PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H304810	1/8"-27	0.04-0.11 PSI	1.00"	.26"	.19"	.39"	7/16"
H131000	1/8"-27	0.43 PSI MAX	1.00"	.26"	.19"	.39"	7/16"
H327240	1/8"-27	1-1.5 PSI	1.00"	.26"	.19"	.39"	7/16"
H369606S	1/8"-27	1-2 PSI	1.04"	.30"	.24"	.39"	9/16"

VENTS PRESSURE RATINGS SUMMARY

ITEM #	PRESSURE	THREAD SERIES	DRILL DIAMETER	PAGE #
H304810	.04-.11 PSI	1/8"-27	□	PG. 52
H300805	.04-.11 PSI	1/8"-27	□	PG. 53
H131000	.43 PSI MAX	1/8"-27	□	PG. 52
H324970	.22-.43 PSI	□	≈ 0.368" DRILL	PG. 54
H327240	1-1.5 PSI	1/8"-27	□	PG. 52

ITEM #	PRESSURE	THREAD SERIES	PAGE #
H369606S	1-2 PSI	1/8"-27	PG. 52
H369621	1-2 PSI	3/8"-18	PG. 54
H326935	2-5 PSI	3/8"-18	PG. 54
H330766	2.5-4 PSI	1/8"-27	PG. 53
H369601	10-20 PSI	1/8"-27	PG. 53



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VENT

EXCEEDS 12 HR SALT SPRAY.

1/8" PTF

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

Vent - Felt Filter
1/8"-27 PTF Spl. Short
Opening Range 0.04-0.11 psi

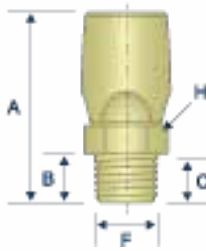


300805
 AT142146

FELT FILTER

H330766

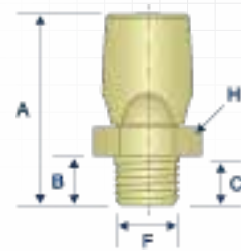
Vent
1/8"-27 PTF SAE Short
Opening Range 2.5-4 psi



330766

H369601

Vent
1/8"-27 PTF Spl. Short
Opening Range 10-20 psi



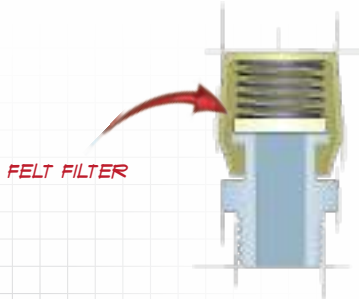
369601

ITEM #	THREAD	OPENING PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H300805	1/8"-27	0.04-0.11 PSI	1.00"	.27"	.19"	.39"	7/16"
H330766	1/8"-27	2.5-4 PSI	1.00"	.26"	.19"	.39"	7/16"
H369601	1/8"-27	10-20 PSI	1.00"	.30"	.27"	.39"	9/16"

DESIGN FEATURE

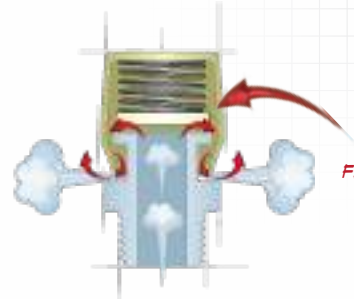
H300805

CLOSED



FELT FILTER

OPEN



FELT FILTER

THE H300805 CONTAINS A FELT FILTER INSTEAD OF A RUBBER SEAL FOR ADDITIONAL PROTECTION FROM DEBRIS

VENT

EXCEEDS 12 HR SALT SPRAY.

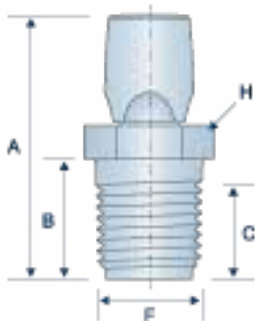
3/8" PTF

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. The H326935 vents in the opposite direction from other vents. For a detailed description on how the H326935 vent operates, see page 50.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H369621

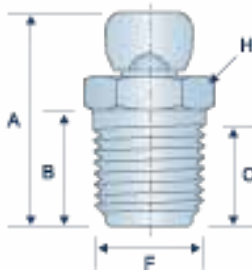
Vent
3/8"-18 PTF SAE Short
Opening Range 1-2 psi



 369621

H326935

Vent - Reverse Flow
3/8"-18 PTF Spl. Short
Opening Range 2-5 psi

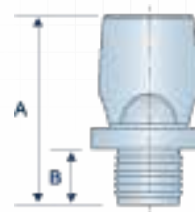


 326935

REVERSE FLOW

H324970

Vent - Drive Type
≈ 0.368" Drill Size
Opening Range 0.22-0.43 psi

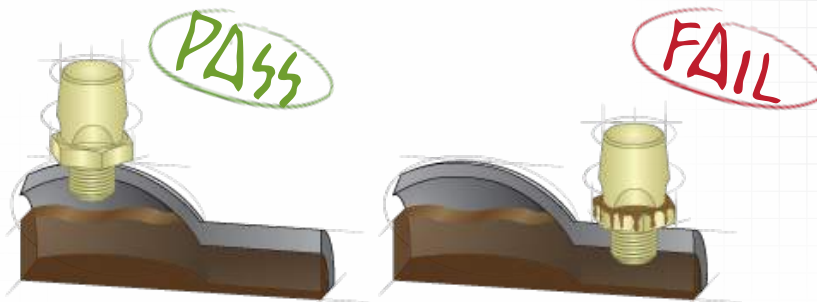


 324970

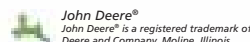
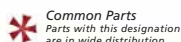
DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

ITEM #	THREAD	DRILL DIAMETER	OPENING PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H369621	3/8"-18	□	1-2 PSI	1.39"	.61"	.59"	.64"	11/16"
H326935	3/8"-18	□	2-5 PSI	1.13"	.58"	.35"	.64"	11/16"
H324970	□	≈ 0.368" DRILL	0.22-0.43 PSI	1.00"	.28"	□	□	□

INSTALLATION



ABOVE FLUID LEVEL vs. BELOW FLUID LEVEL
VENTS ARE DESIGNED TO BE USED ABOVE FLUID LEVEL



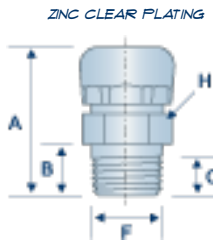
BREATHER

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 ARE APPROXIMATE ACTUAL SIZE

H301370

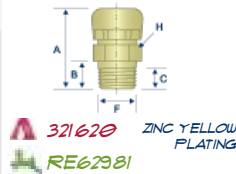
Breather
1/8"-27 PTF Spl. Short



 301370
 5698
 AE26352

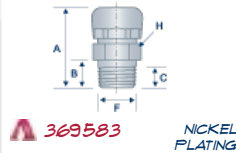


H321620



NOT ACTUAL SIZE

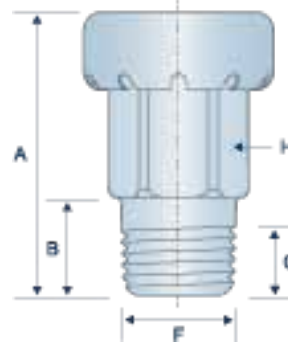
H369583



 369583 NICKEL PLATING

H313650

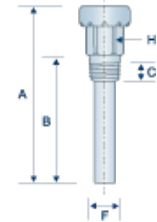
Breather
3/8"-18 PTF SAE Short



 313650
 AH20868



H333075

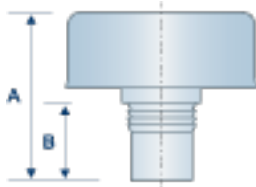


 333075

NOT ACTUAL SIZE

H369518

Breather - Drive Type
≈ 23/64" Drill Size

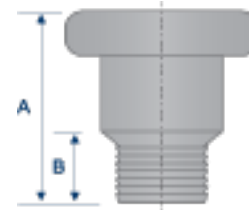


 369518

DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

H369528

Breather - Drive Type
≈ 1/2" Drill Size



 369528

DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

PLAIN FINISH SO YOU CAN PAINT TO MATCH YOUR ASSEMBLY

ITEM #	THREAD	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H301370 *	1/8"-27	□	.78"	.28"	.19"	.39"	7/16"
H321620	1/8"-27	□	.78"	.28"	.19"	.39"	7/16"
H369583	1/8"-27	□	.78"	.28"	.19"	.39"	7/16"
H313650 *	3/8"-18	□	1.50"	.52"	.36"	.64"	3/4"
H333075	3/8"-18	□	3.5"	2.5"	.36"	.64"	3/4"
H369518	□	≈ 23/64" DRILL	.88"	.48"	□	□	□
H369528	□	≈ 1/2" DRILL	1.00"	.30"	□	□	□

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ONE-PIECE DESIGN

DIAGRAM 1

Relief - Top Vent
1/8"-27 PTF Spl. Short
One-Piece Design

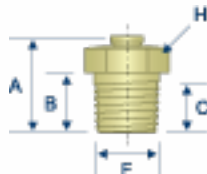


DIAGRAM 2

Relief - Top Vent
1/4"-18 PTF Spl. Short
One-Piece Design

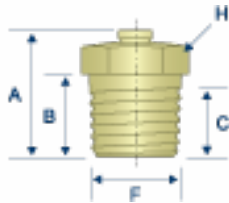


DIAGRAM 3

Relief - Top Vent
3/8"-18 PTF Spl. Short
One-Piece Design

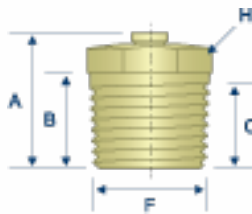
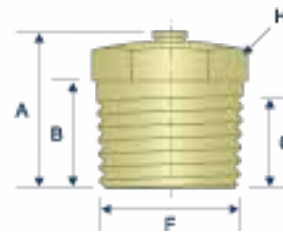


DIAGRAM 4

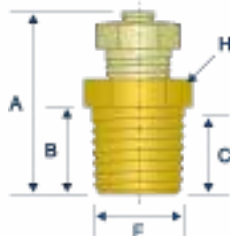
Relief - Top Vent
1/2"-14 PTF Spl. Short
One-Piece Design



TWO-PIECE DESIGN

DIAGRAM 5

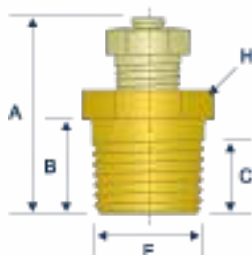
Relief - Top Vent
1/4"-18 NPTF
Two-Piece Design



+ BRASS BUSHING

DIAGRAM 6

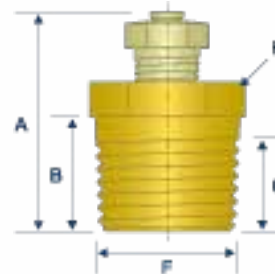
Relief - Top Vent
3/8"-18 NPTF
Two-Piece Design



+ BRASS BUSHING

DIAGRAM 7

Relief - Top Vent
1/2"-14 NPTF
Two-Piece Design

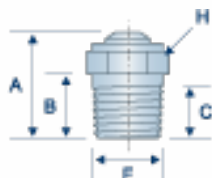


+ BRASS BUSHING

LEAK PROOF

DIAGRAM 8

Relief - Top Vent Leak Proof
1/8"-27 PTF Spl. Short

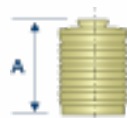


LEAK-PROOF RUBBER GASKET

DRIVE TYPE

DIAGRAM 9

Relief - Top Vent Drive Type
≈ 3/8" Drill Size

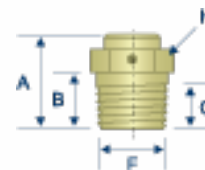


FOR AUTOMATIC INSTALLATION

SIDE VENT

DIAGRAM 10

Relief - Side Vent
1/8"-27 PTF Spl. Short



Common Parts
Parts with this designation
are in wide distribution.

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

Lincoln Industrial[®]
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of Lincoln Industrial (USA) Corp.

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

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 2011

RELIEF VENT

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

**ONE
PIECE**

ITEM #	DIAGRAM #	THREAD	RELIEF PRESSURE	CROSS REFERENCE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H317400 *	DIA. 1	1/8"-27 PTF	0.25-1 PSI	▲ 317400 ▲ AE38448	.50"	.30"	.20"	.39"	7/16"
H317402	DIA. 2	1/4"-18 PTF	0.25-1 PSI		.67"	.42"	.27"	.52"	9/16"
H47200 *	DIA. 1	1/8"-27 PTF	1-5 PSI	▲ 47200	.50"	.30"	.20"	.39"	7/16"
H47202 *	DIA. 2	1/4"-18 PTF	1-5 PSI		.67"	.42"	.27"	.52"	9/16"
H47204	DIA. 3	3/8"-18 PTF	1-5 PSI		.71"	.50"	.34"	.64"	11/16"
H47206	DIA. 4	1/2"-14 PTF	1-5 PSI		.83"	.55"	.39"	.82"	13/16"
H321839	DIA. 9	≈ 3/8" DRILL	1-5 PSI	▲ 321839	.50"	□	□	□	□
H47640 *	DIA. 1	1/8"-27 PTF	7.5-15 PSI	▲ 47640 ▲ R131795	.50"	.30"	.20"	.39"	7/16"
H47642	DIA. 2	1/4"-18 PTF	7.5-15 PSI		.67"	.42"	.27"	.52"	9/16"
H323060	DIA. 1	1/8"-27 PTF	15-25 PSI	▲ 323060	.50"	.30"	.20"	.39"	7/16"
H323062 *	DIA. 2	1/4"-18 PTF	15-25 PSI		.67"	.42"	.27"	.52"	9/16"
H47100	DIA. 1	1/8"-27 PTF	45-80 PSI	▲ 47100	.50"	.30"	.20"	.39"	7/16"
H47102	DIA. 2	1/4"-18 PTF	45-80 PSI		.67"	.42"	.27"	.52"	9/16"
H338382	DIA. 8	1/8"-27 PTF	80-140 PSI	▲ 338382	.57"	.34"	.27"	.39"	7/16"
H369593 *	DIA. 1	1/8"-27 PTF	100-200 PSI	▲ 369593	.50"	.30"	.20"	.39"	7/16"
H50500	DIA. 1	1/8"-27 PTF	400-650 PSI	▲ 50500	.50"	.30"	.20"	.39"	7/16"

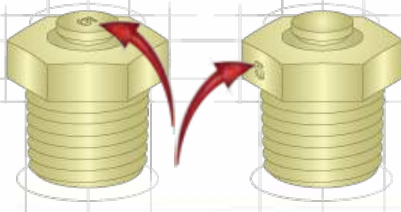
**TWO
PIECE**

H317422	DIA. 5	1/4"-18 NPTF	0.25-1 PSI		1.06"	.46"	.33"	.52"	9/16"
H317404	DIA. 6	3/8"-18 NPTF	0.25-1 PSI		1.06"	.50"	.33"	.64"	11/16"
H317406	DIA. 7	1/2"-14 NPTF	0.25-1 PSI		1.16"	.55"	.42"	.82"	13/16"
H47222	DIA. 5	1/4"-18 NPTF	1-5 PSI		1.06"	.46"	.33"	.52"	9/16"
H47224	DIA. 6	3/8"-18 NPTF	1-5 PSI		1.06"	.50"	.33"	.64"	11/16"
H47226	DIA. 7	1/2"-14 NPTF	1-5 PSI		1.16"	.55"	.42"	.82"	13/16"
H47622	DIA. 5	1/4"-18 NPTF	7.5-15 PSI		1.06"	.46"	.33"	.52"	9/16"
H47644	DIA. 6	3/8"-18 NPTF	7.5-15 PSI		1.06"	.50"	.33"	.64"	11/16"
H47646	DIA. 7	1/2"-14 NPTF	7.5-15 PSI		1.16"	.55"	.42"	.82"	13/16"
H323262	DIA. 5	1/4"-18 NPTF	15-25 PSI		1.06"	.46"	.33"	.52"	9/16"
H323064	DIA. 6	3/8"-18 NPTF	15-25 PSI		1.06"	.50"	.33"	.64"	11/16"
H323066	DIA. 7	1/2"-14 NPTF	15-25 PSI		1.16"	.55"	.42"	.82"	13/16"
H47122	DIA. 5	1/4"-18 NPTF	45-80 PSI		1.06"	.46"	.33"	.52"	9/16"
H47104	DIA. 6	3/8"-18 NPTF	45-80 PSI		1.06"	.50"	.33"	.64"	11/16"
H47106	DIA. 7	1/2"-14 NPTF	45-80 PSI		1.16"	.55"	.42"	.82"	13/16"

**SIDE
VENT**

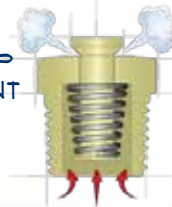
H5671 *	DIA. 10	1/8"-27 PTF	1-5 PSI	▲ 5671 ▲ E14814	.50"	.28"	.17"	.39"	7/16"
H5678 *	DIA. 10	1/8"-27 PTF	7.5-15 PSI	▲ 5678	.50"	.28"	.17"	.39"	7/16"
H5679	DIA. 10	1/8"-27 PTF	15-25 PSI	▲ 5679	.50"	.28"	.17"	.39"	7/16"
H5680	DIA. 10	1/8"-27 PTF	45-80 PSI	▲ 5680	.50"	.28"	.17"	.39"	7/16"

THE UPPER PRESSURE RANGE LIMIT IS MARKED ON THE TOP OR SIDE OF THE FITTING.

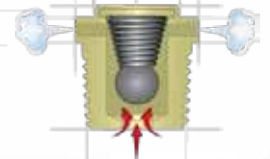


SIDE VENT FITTINGS RELEASE PRESSURE THROUGH TWO SIDE PORTS, WHEREAS TOP VENT FITTINGS RELEASE PRESSURE THROUGH A LARGE TOP PORT.

**TOP
VENT**



SIDE VENT



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.

GREASE IN THE GROOVE INDICATES MAXIMUM LUBRICATION.



SAFETY VENT FITTINGS RELIEVE PRESSURE DURING OPERATION.

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.

LEAK PROOF FITTINGS ARE USED IN FOOD PROCESSING EQUIPMENT.



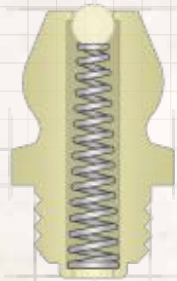
THE SEAL PROVIDES LEAK-FREE PERFORMANCE, SO AS TO PREVENT CONTAMINATION FROM GREASE BACK PRESSURE.

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.

LIGHT OIL LEAK PROOF FITTINGS CONTAIN PLASTIC BALL CHECKS.



THE DELRIN® PLASTIC BALL CONFORMS TO THE SURFACE HOLE, PROVIDING A LEAK-FREE PERFORMANCE AND IS SUITED FOR LIGHT OILS & OTHER FLUIDS AT LOW PRESSURE.

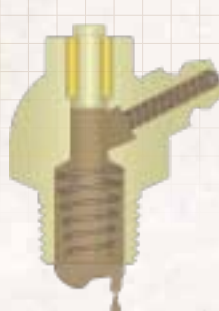


FLOW STOP™



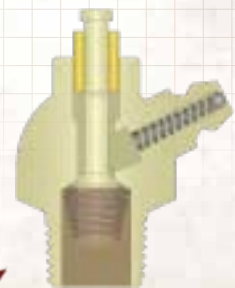
While leak proof fittings control the grease that flows out of a fitting; flow stop fittings control the input. Using a valve with a pressure-rated spring, the fitting opens and closes to allow grease to flow in at a controlled pressure, thus preventing over-lubrication.

FLOW STOP FITTINGS USE STANDARD COUPLERS, FOUND ON PAGE 118.



AT PRESSURES BELOW THE MINIMUM RATING, GREASE FLOWS.

GREASE FLOW IS AUTOMATICALLY SHUT OFF WHEN INTERNAL PRESSURE BUILDS TO SPECIFIED RANGE.



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 2011

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REVISED 06-11

FLOW CONTROL

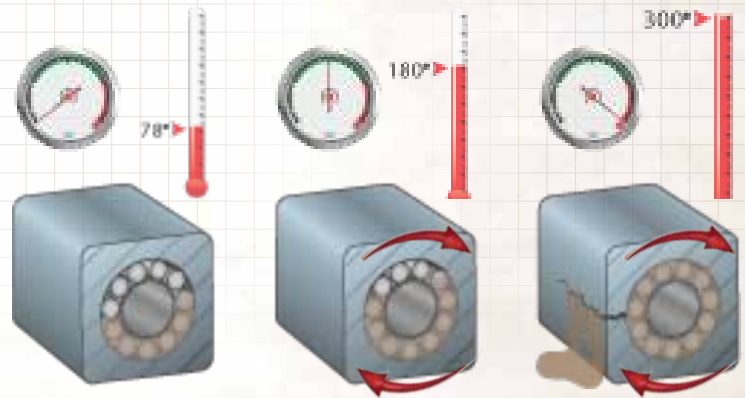
While greasing and lubrication of bearings is important, over-lubrication can also cause serious damage. Flow control fittings provide safety devices that limit the flow of grease in and out of the bearing and the fitting itself.

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.



IN A REST CONDITION, FLUID AND GASES INSIDE THE BEARING ARE AMBIENT.

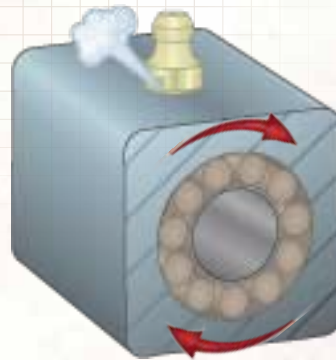
WHILE IN OPERATION, THE TEMPERATURE INSIDE THE BEARING INCREASES WITH FRICTION, AND FLUID LEVELS AND PRESSURE RISES.

IF NOT CHECKED, THE INCREASED PRESSURE CAN BLOW OUT SEALS AND OR CAUSE OTHER SERIOUS DAMAGE.

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.

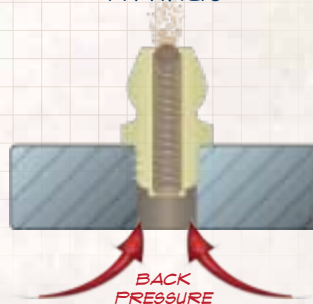


CONTAMINATION

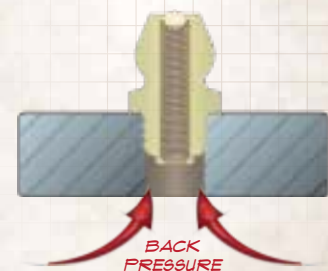
In a conventional ball check design, excess grease can leak back out through the end of the part. Such leakage can contaminate sensitive components, especially in food processing or pharmaceutical applications. Flow control fittings deploy seals that seal the passage, and thus prevent grease from leaking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

EXCEEDS 12 HR SALT SPRAY.

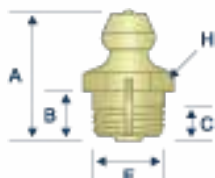
SAE J534

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

HI930

Straight Safety Vent
1/8"-27 PTF Spl. Extra Short
Long Shank

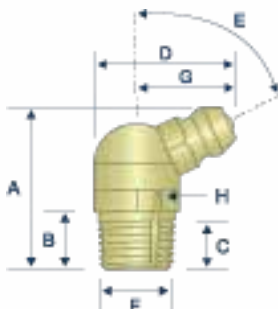


 1930
 5099
 JD7805

 AVAILABLE IN STAINLESS

HI925

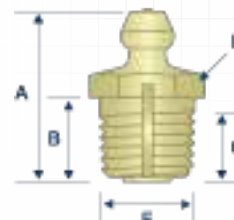
65° Angle Safety Vent
1/8"-27 PTF Spl. Short
Long Shank



 1925-B

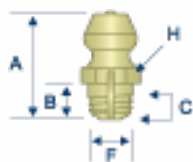
HI927

Straight Safety Vent
1/4"-18 PTF SAE Short
Extra Long Shank



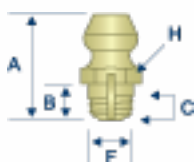
HI910

Straight Safety Vent
1/4"-28 SAE-LT
Standard Shank



HI909

Straight Safety Vent
1/4"-28 SAE-LT
Standard Shank



 1909

 NO BALL CHECK

SPECIAL PARTS
DO YOU NEED A CUSTOM GREASE FITTING FOR YOUR OPERATION?
WE CAN MAKE IT, CALL OUR SALES TEAM TODAY!

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)
HI930	1/8"-27	STRAIGHT	.73"	.28"	.22"	□	.39"	□	7/16"
HI925	1/8"-27	65°	.86"	.30"	.22"	.72"	.39"	.50"	7/16"
HI927	1/4"-18	STRAIGHT	.88"	.45"	.34"	□	.52"	□	9/16"
HI910	1/4"-28	STRAIGHT	.54"	.18"	.10"	□	.25"	□	5/16"
HI909	1/4"-28	STRAIGHT	.54"	.21"	.10"	□	.25"	□	5/16"

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

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LEAK PROOF - LIGHT OIL BALL CHECK

EXCEEDS 12 HR SALT SPRAY.

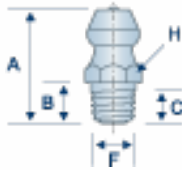
215 PSI

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1641V

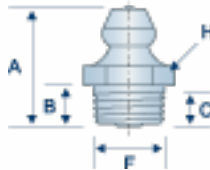
Straight Leak Proof
1/4"-28 UNF
215 psi



WITH SURFACE DELRIN®
PLASTIC BALL CHECK

H1610V

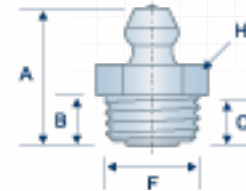
Straight Leak Proof
1/8"-27 NPTF
215 psi



WITH SURFACE DELRIN®
PLASTIC BALL CHECK

H1627V

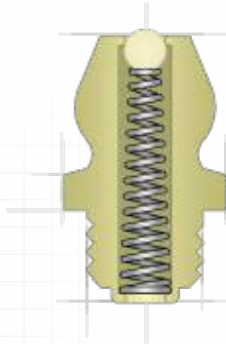
Straight Leak Proof
1/4"-18 NPTF
215 psi



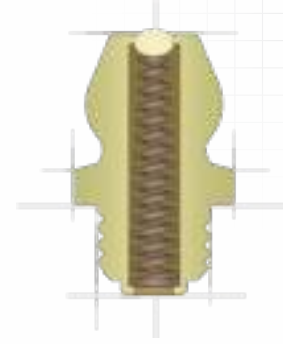
WITH SURFACE DELRIN®
PLASTIC BALL CHECK

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.



LEAK PROOF

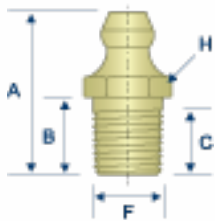
5,000 PSI

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 H1634 has a steel ball check and brass insert that seals grease. The H1634B has a spring loaded surface ball check that seals debris from entering the fitting.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1650

Straight Leak Proof
1/8"-27 PTF SAE Short
5,000 psi

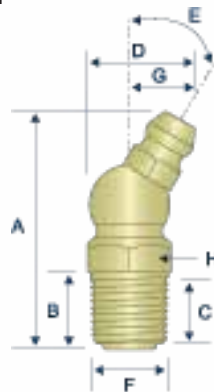


 1650
 5045

WITHOUT SURFACE BALL CHECK

H1692

30° Angle Leak Proof
1/8"-27 NPTF
5,000psi

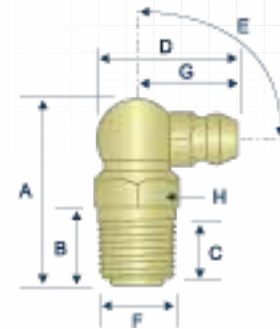


 1692

WITHOUT SURFACE BALL CHECK

H1693

90° Angle Leak Proof
1/8"-27 NPTF
5,000 psi

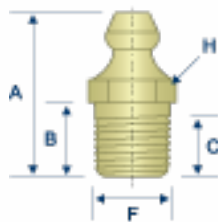


 1693

WITHOUT SURFACE BALL CHECK

H1634

Straight Leak Proof
1/8"-27 PTF SAE Short
10,000 psi

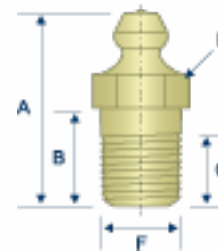


 1634



H1634B

Straight Leak Proof
1/8"-27 PTF SAE Short
10,000 psi



 1634-B
 700506
 JDI0510



10,000 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)
H1650	1/8"-27	STRAIGHT	5,000 PSI	.84"	.38"	.21"	□	.39"	□	7/16"
H1692	1/8"-27	30°	5,000 PSI	1.22"	.38"	.21"	.56"	.39"	.33"	7/16"
H1693	1/8"-27	90°	5,000 PSI	.91"	.38"	.21"	.72"	.39"	.50"	7/16"
H1634	1/8"-27	STRAIGHT	10,000 PSI	.85"	.38"	.23"	□	.39"	□	7/16"
H1634B	1/8"-27	STRAIGHT	10,000 PSI	1.00"	.52"	.31"	□	.39"	□	7/16"

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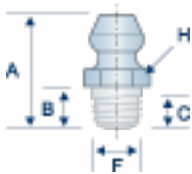
LEAK PROOF

3,000 PSI

The H369619 has sealant pre-applied to the threads and uses a rubber ball check. The rubber ball check works in the same way as the plastic ball check on page 61. The H369533 is a drive type fitting. Test drill hole to verify fit and function. Both parts possess a 3,000 psi leak-proof pressure rating.

H369619

Straight Leak Proof
1/4"-28 SAE-LT
3,000 psi



A 369619

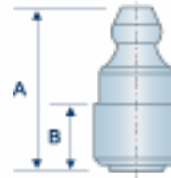


DETAIL

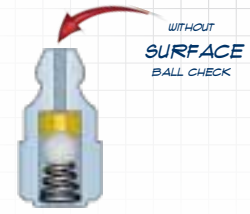
WITH RUBBER BALL CHECK
THREAD SEALANT PRE-APPLIED

H369533

Straight Leak Proof - Drive Type
≈ 7/16" Drill Size
3,000 psi



A 369533



DETAIL

DRILL SIZES PROVIDED ARE
APPROXIMATIONS ONLY

ITEM #	THREAD	DRILL DIAMETER	ANGLE (E)	BACK PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H369619	1/4"-28	□	STRAIGHT	3,000 PSI	.58"	.19"	.12"	.25"	5/16"
H369533	□	≈ 7/16" DRILL	STRAIGHT	3,000 PSI	.86"	.36"	□	□	□

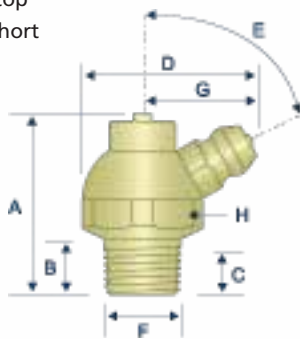
FLOW STOP™

SAE J534

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

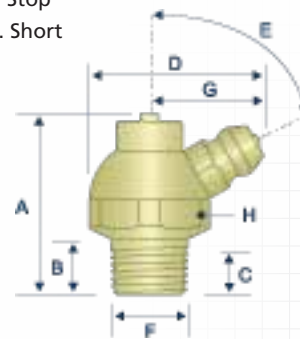
60° Angle Flow Stop
1/8"-27 PTF Spl. Short
5-20 psi



A 1940-B

H1795

60° Angle Flow Stop
1/8"-27 PTF Spl. Short
60-100 psi



A 1795-B

ITEM #	THREAD	ANGLE (E)	FLOW STOP PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
H1940	1/8"-27	60° □	5-20 PSI	1.00"	.21"	.19"	.90"	.39"	.59"	5/8"
H1795	1/8"-27	60° □	60-100 PSI	1.00"	.21"	.19"	.90"	.39"	.59"	5/8"

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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.

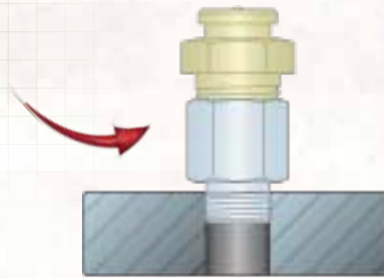


ADAPTERS

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.

ADAPTERS ARE AVAILABLE IN MALE TO MALE, MALE TO FEMALE AND FEMALE TO FEMALE.

ADAPTERS FEATURE TWO DIFFERENT THREAD PITCHES AND ARE USED TO CONNECT DISSIMILAR THREADS.



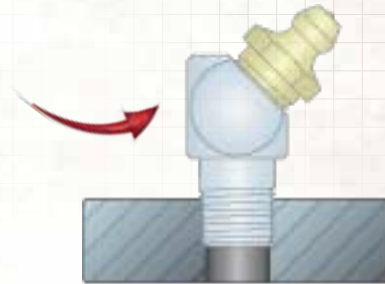
ELBOWS



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

AVAILABLE IN 45° AND 90° ANGLES.

AN ELBOW IS A CONNECTING PART THAT IS INSTALLED TO ALLOW A CHANGE OF DIRECTION FOR EASIER ACCESS TO THE LUBRICATION POINT.

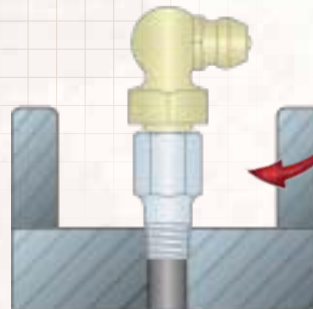


EXTENSIONS



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.)

EXTENSIONS ARE AVAILABLE IN STRAIGHT (AS SHOWN) AND ANGLED.



THIS PART IS USED TO EXTEND A GREASE FITTING TO A MORE ACCESSIBLE SERVICE AREA USING THE SAME THREAD PITCH.

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.

CUSTOM DESIGNS AVAILABLE BY REQUEST.



BUSHINGS ARE THREADED ON BOTH THE INSIDE AND OUTSIDE AND ARE USED FOR JOINING PARTS WITH DIFFERENT DIAMETERS TOGETHER.

DESIGN AND USE

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.

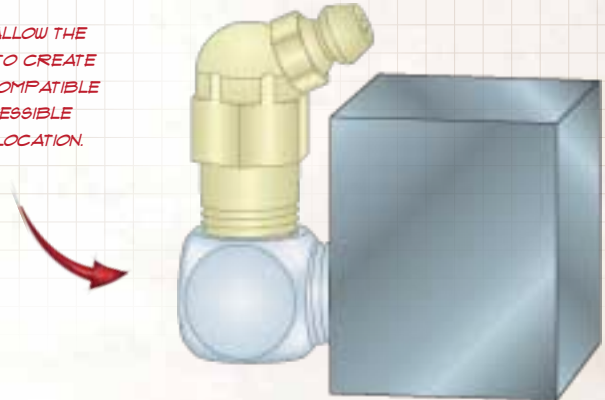
REPOSITIONING

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



LET OUR IN-HOUSE MACHINE SHOP MAKE YOUR CUSTOM CONNECTOR.

ELBOWS ALLOW THE ENGINEER TO CREATE A MORE COMPATIBLE OR ACCESSIBLE 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.

METRIC ADAPTERS ARE FOUND ON PAGE 61.

METRIC FITTING



UNCOMMON & EXPENSIVE

METRIC ADAPTOR & IMPERIAL FITTING



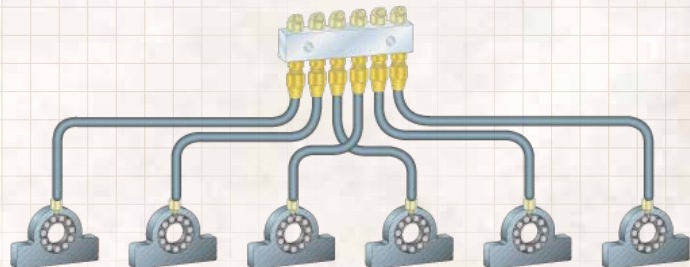
COMMON & COST EFFECTIVE

SOMETIMES THE COST OF A TWO PART DESIGN USING A COMMON FITTING IS LESS IN THE LONG RUN THAN USING A SINGLE COSTLY, UNCOMMON PART.

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.

USE A HEADER BLOCK TO CONSOLIDATE MULTIPLE SERVICE LOCATIONS TO A SINGLE POINT.



CONNECTING PARTS AND PIPE PLUMBING CAN BE USED TO CREATE ONE LUBRICATION SERVICE AREA THUS SAVING YOU TIME AND MONEY.

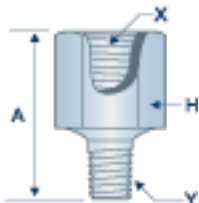
ADAPTERS

MALE × FEMALE

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.

HA51942

Straight Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT

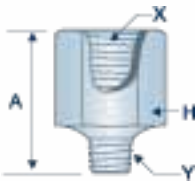


 51942
 20024



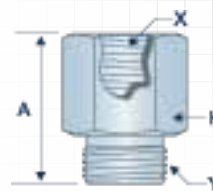
H51942

Straight Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT



H305859

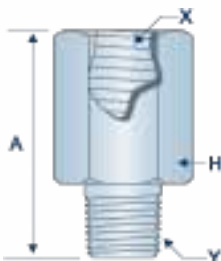
Straight Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 7/16"-27 UNS



 305859

H43760

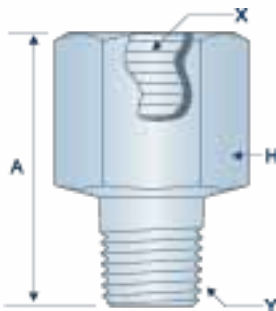
Straight Adapter
Female (X) - 1/4"-18 NPTF
Male (Y) - 1/8"-27 NPTF



 43760
 11229

H301198

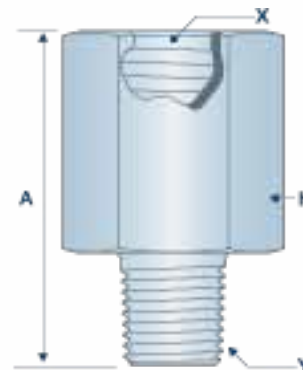
Straight Adapter
Female (X) - 3/8"-18 NPTF
Male (Y) - 1/4"-18 NPTF



 301198
 10049

H12989

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



 12989

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
HA51942 *	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	STRAIGHT	.81"	1/2"
H51942 *	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	STRAIGHT	.75"	1/2"
H305859	7/16"-27 UNS (M)	1/8"-27 NPTF (F)	STRAIGHT	.78"	9/16"
H43760	1/8"-27 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.19"	5/8"
H301198	1/4"-18 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.44"	7/8"
H12989	1/4"-18 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.75"	1"

 Common Parts
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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

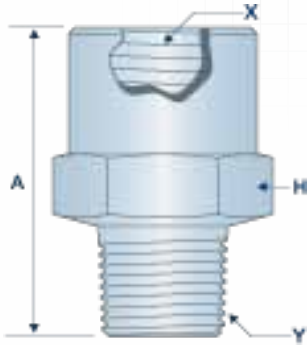
ADAPTERS

MALE × FEMALE

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 imperial adapters are beneficial for converting a metric threaded hole to accommodate an imperial grease fitting. The H338552 is most often used to adapt smaller pump inlets to larger lubricant drum holes or bungs.

H52797

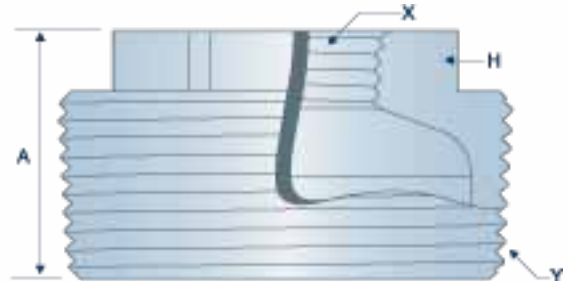
Straight Adapter
Female (X) - 1/2"-14 NPTF
Male (Y) - 3/8"-18 NPTF



▲ 52797

H338552

Straight Adapter
Female (X) - 3/4"-14 NPT
Male (Y) - 2"-11 1/2 NPT



▲ 338552

TOP VIEW



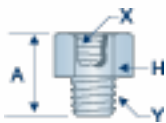
NOT ACTUAL SIZE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

METRIC TO ENGLISH

HMET06

Straight Adapter
Female (X) - 1/4"-28 UNF
Male (Y) - M6 x 1.0



└ 103307E

HMET08

Straight Adapter
Female (X) - 1/4"-28 UNF
Male (Y) - M8 x 1.0



└ 103308E

HMET10

Straight Adapter
Female (X) - 1/4"-28 UNF
Male (Y) - M10 x 1.0



└ 103309E

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H52797	3/8"-18 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.62"	1"
H338552	2"-11 1/2 NPT (M)	3/4"-14 NPT (F)	STRAIGHT	1.29"	1 5/8" SQ.
HMET06 *	M6 x 1.0 (M)	1/4"-28 UNF (F)	STRAIGHT	.43"	9.0 MM
HMET08 *	M8 x 1.0 (M)	1/4"-28 UNF (F)	STRAIGHT	.45"	3/8"
HMET10 *	M10 x 1.0 (M)	1/4"-28 UNF (F)	STRAIGHT	.32"	7/16"

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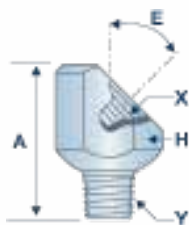
ADAPTERS - ANGLED

MALE × FEMALE

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.

H310912

45° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT

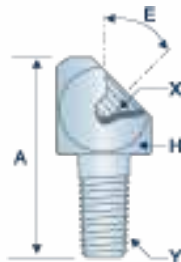


 310912

WITH
WRENCHING
FLATS

H247616

45° Angle Adapter
Female (X) - 1/8"-27 PTF SAE Short
Male (Y) - 1/4"-28 SAE-LT



 247616

SPECIAL PARTS

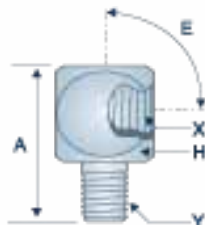
DON'T SEE WHAT YOU NEED?

OUR IN-HOUSE MACHINE SHOP
CAN MAKE YOUR CUSTOM PART.

CALL OUR SALES TEAM TODAY
FOR MORE INFORMATION!

H51943

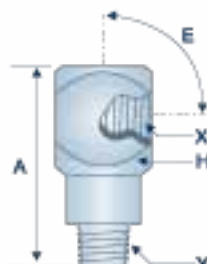
90° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT



 20026
 JD7845

H451943

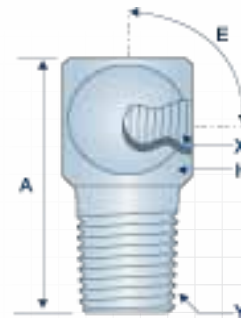
90° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT



 51943


H43718

90° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-18 PTF SAE Short



 43718

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H310912	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	45°	.81"	1/2"
H247616	1/4"-28 SAE-LT (M)	1/8"-27 PTF SAE SHORT (F)	45°	1.06"	1/2" SQ.
H51943 *	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	90°	.81"	1/2" SQ.
H451943	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	90°	1.04"	1/2" SQ.
H43718 *	1/4"-18 PTF SAE SHORT (M)	1/8"-27 NPTF (F)	90°	1.19"	9/16" SQ.

 Common Parts
Parts with this designation
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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ELBOWS

MALE × FEMALE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

H43716

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

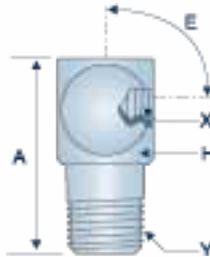


▲ 43716
L 20028
JD7801



H44701

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

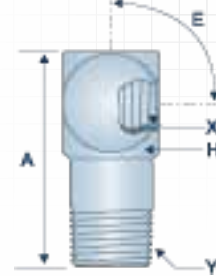


▲ 44701
L 20023
JD7838



H43706

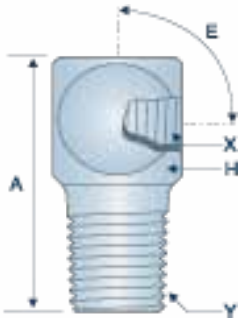
90° Angle Elbow
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPTF



▲ 43706

H43748

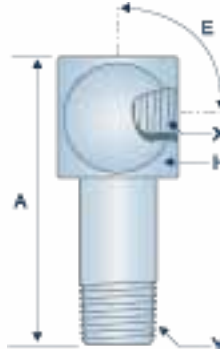
90° Angle Elbow
Female (X) - 1/4"-18 NPTF
Male (Y) - 1/4"-18 NPTF



▲ 43748
L 20012

H13129

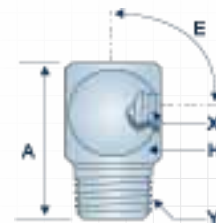
90° Angle Elbow
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPTF



L 13129

H316071

90° Angle Elbow
Female (X) - 1/8"-27 PTF Spl Extra Short
Male (Y) - 1/8"-27 PTF Spl Extra Short



▲ 316071
L 20031
JD7839



ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H43716 *	1/8"-27 PTF SAE SHORT (M)	1/8"-27 NPTF (F)	45°	1.00"	1/2" SQ.
H44701 *	1/8"-27 PTF SAE SHORT (M)	1/8"-27 NPTF (F)	90°	1.00"	1/2" SQ.
H43706	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	90°	1.13"	1/2" SQ.
H43748	1/4"-18 NPTF (M)	1/4"-18 NPTF (F)	90°	1.34"	11/16" SQ.
H13129	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	90°	1.50"	5/8" SQ.
H316071 *	1/8"-27 PTF SPL EXTRA SHORT (M)	1/8"-27 PTF SPL EXTRA SHORT (F)	90°	.82"	1/2" SQ.

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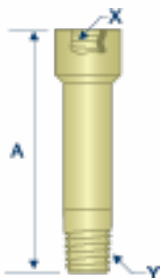
EXTENSIONS

MALE × FEMALE

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.

H33655I

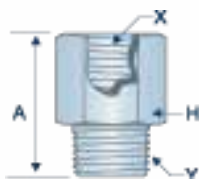
Straight Extension
Female (X) - 1/4"-28 UNF
Male (Y) - 1/4"-28 SAE-LT



 33655I

H4376I

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



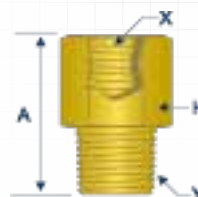
 4376I

 AVAILABLE IN BRASS



H4376IB

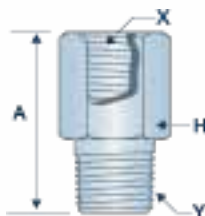
Straight Extension
Female (X) - 1/8"-27 NPT
Male (Y) - 1/8"-27 NPT



 BRASS

H43763

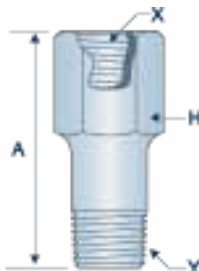
Straight Extension
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPTF



 10182

H43762

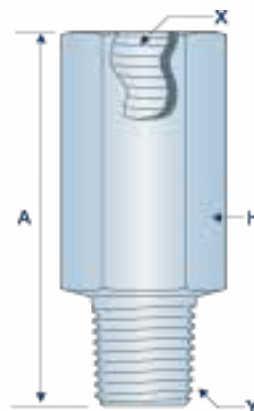
Straight Extension
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPTF



 43762

H11348

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



 11348

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H33655I	1/4"-28 SAE-LT (M)	1/4"-28 UNF (F)	STRAIGHT	1.28"	□
H4376I *	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.75"	1/2"
H4376IB	1/8"-27 NPT (M)	1/8"-27 NPT (F)	STRAIGHT	.82"	1/2"
H43763	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.94"	9/16"
H43762	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	1.25"	1/2"
H11348	1/4"-18 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.91"	3/4"

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

BUSHINGS

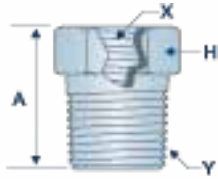
MALE × FEMALE

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

H45120

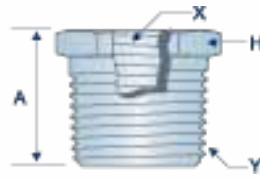
Straight Bushing
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-18 NPTF



▲ 45120
Ⓛ 10461

H40996

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



▲ 40996
Ⓛ 20011

H112

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



▲ A112

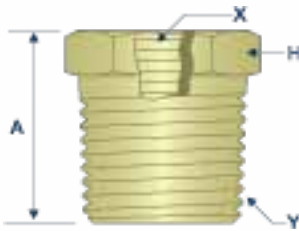
SPECIAL PARTS

ALTERNATE MATERIALS AND DESIGNS AVAILABLE UPON REQUEST.

CALL OUR SALES TEAM TODAY!

H51891

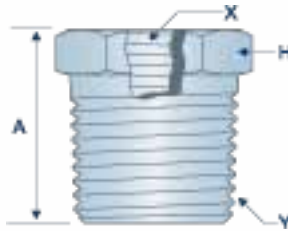
Straight Bushing
Female (X) - 1/4"-18 NPTF
Male (Y) - 1/2"-14 NPTF



▲ 51891
Ⓛ 12080

H131586

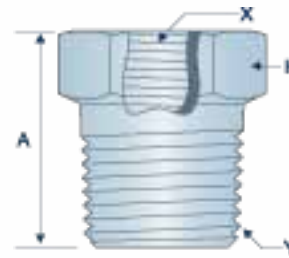
Straight Bushing
Female (X) - 3/8"-18 NPTF
Male (Y) - 1/2"-14 NPTF



▲ 131586
Ⓛ 67069

H12281

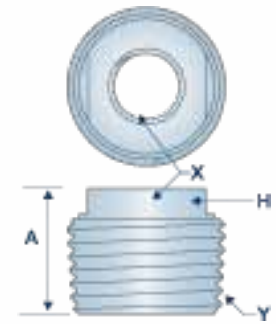
Straight Bushing
Female (X) - 1/2"-27 NPTF
Male (Y) - 1/2"-14 NPTF



Ⓛ 12281

H113

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



▲ A113

WITH WRENCHING FLATS

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H45120	1/4"-18 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.75"	9/16"
H40996	3/8"-18 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	.72"	3/4"
H112	3/8"-18 NPTF (M)	1/8"-27 NPSI (F)	STRAIGHT	.53"	11/16"
H51891	1/2"-14 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.12"	7/8"
H131586	1/2"-14 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.12"	7/8"
H12281	1/2"-14 NPTF (M)	1/2"-27 NPTF (F)	STRAIGHT	1.13"	15/16"
H113	1/2"-14 NPTF (M)	1/8"-27 NPSI (F)	STRAIGHT	.66"	5/8"

BUSHINGS

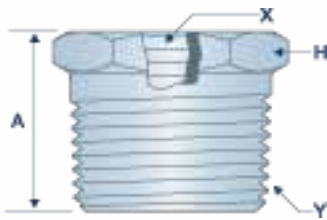
MALE × FEMALE

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

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H320356

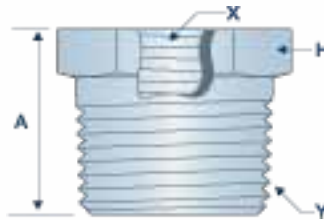
Straight Bushing
Female (X) - 3/8"-18 NPT
Male (Y) - 3/4"-14 NPTF



 320356
 67198

H67171

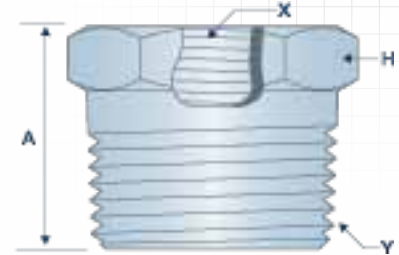
Straight Bushing
Female (X) - 1/2"-14 NPTF
Male (Y) - 3/4"-14 NPTF



 67171

H320354

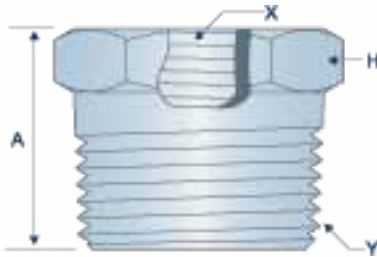
Straight Bushing
Female (X) - 1/2"-14 NPTF
Male (Y) - 1"-11 1/2 NPTF



 320354

H320353

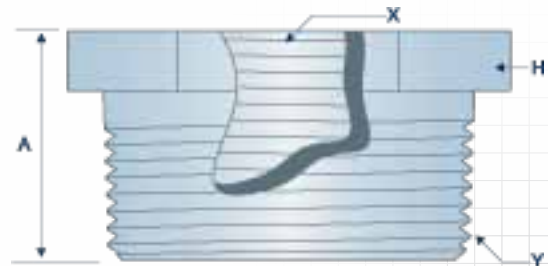
Straight Bushing
Female (X) - 3/4"-14 NPTF
Male (Y) - 1"-11 1/2 NPTF



 320353


H328207

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



 328207

ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H320356	3/4"-14 NPTF (M)	3/8"-18 NPT (F)	STRAIGHT	.94"	1 1/16"
H67171	3/4"-14 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	.96"	1 1/16"
H320354	1"-11 1/2 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.16"	1 5/16"
H320353	1"-11 1/2 NPTF (M)	3/4"-14 NPTF (F)	STRAIGHT	1.16"	1 5/16"
H328207	1 1/2"-11 1/2 NPTF (M)	1"-11 1/2 NPTF (F)	STRAIGHT	1.19"	2"

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REVISED 06-11

BUSHINGS - BRASS

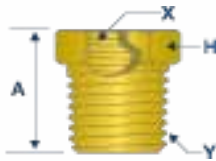
MALE × FEMALE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

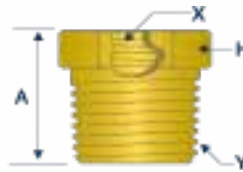
H45200B

Straight Bushing
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-18 NPTF



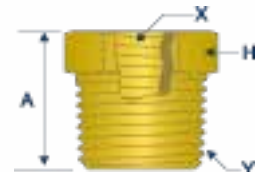
H45300B

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



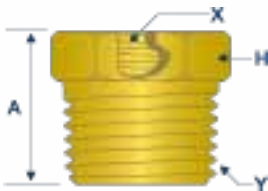
H45500B

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



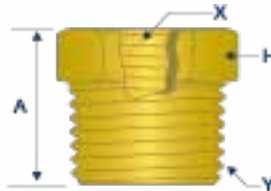
H45400B

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



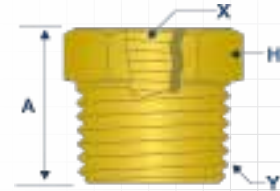
H45700B

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

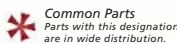


H45600B

Straight Bushing
Female (X) - 1/4"-18 NPSI
Male (Y) - 1/2"-14 NPTF



ITEM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H45200B *	1/4"-18 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.65"	9/16"
H45300B	3/8"-18 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.71"	11/16"
H45500B *	3/8"-18 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	.71"	11/16"
H45400B	1/2"-14 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.81"	13/16"
H45700B	1/2"-14 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	.81"	13/16"
H45600B	1/2"-14 NPTF (M)	1/4"-18 NPSI (F)	STRAIGHT	.81"	13/16"



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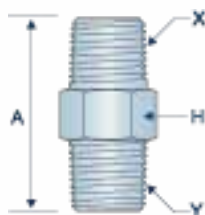
ADAPTERS

MALE × MALE

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

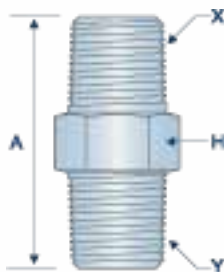
Straight Adapter
Male (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPTF



L 10130

H42159

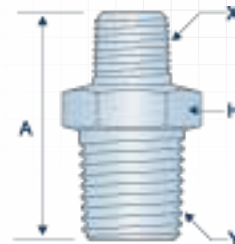
Straight Adapter
Male (X) - 1/2"-27 NS Taper
Male (Y) - 1/2"-27 NS Taper



A 42159

H10112

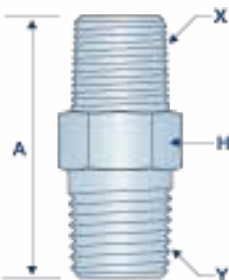
Straight Adapter
Male (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-18 NPTF



L 10112

H43379

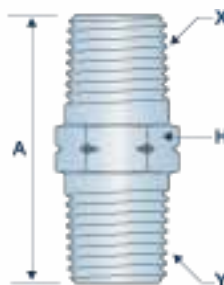
Straight Adapter
Male (X) - 1/2"-27 NS Taper
Male (Y) - 1/4"-18 NPTF



A 43379

H321033

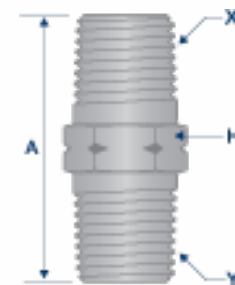
Straight Adapter
Male (X) - 1/4"-18 NPTF
Male (Y) - 1/4"-18 NPTF



A 321033
L 10462

H3210336

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



L 10462-9

+ STAINLESS STEEL

ITEM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H10130	1/8"-27 NPTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1.00"	7/16"
H42159	1/2"-27 NS TAPER (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.31"	9/16"
H10112	1/4"-18 NPTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1.18"	5/8"
H43379	1/4"-18 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.38"	9/16"
H321033	1/4"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.41"	9/16"
H3210336	1/4"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.38"	9/16"

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ADAPTERS

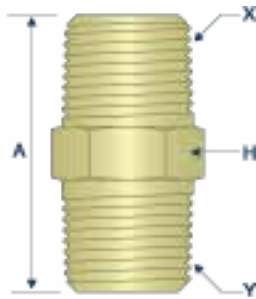
MALE x MALE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

H41729

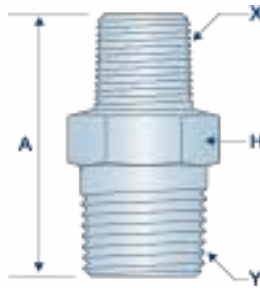
Straight Adapter
Male (X) - 3/8"-18 NPTF
Male (Y) - 3/8"-18 NPTF



41729
 10540

H44734

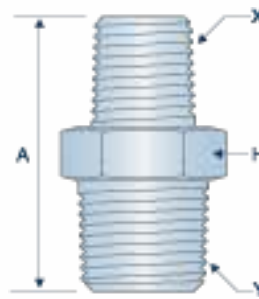
Straight Adapter
Male (X) - 1/2"-27 NS Taper
Male (Y) - 3/8"-18 NPTF



44734

H10713

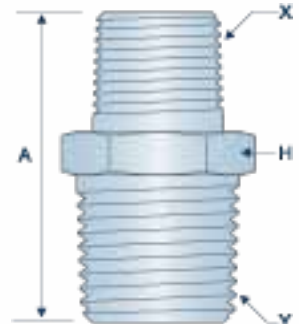
Straight Adapter
Male (X) - 1/4"-18 NPTF
Male (Y) - 3/8"-18 NPTF



10713

H50610

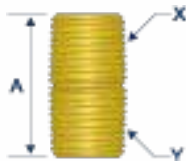
Straight Adapter
Male (X) - 3/8"-18 NPTF
Male (Y) - 1/2"-14 NPTF



50610
 11107

H1222

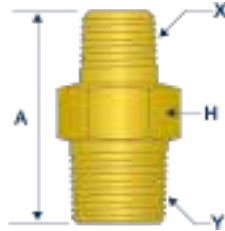
Straight Adapter
Male (X) - 1/8"-27 NPT
Male (Y) - 1/8"-27 NPT



61371 + BRASS

H10199B

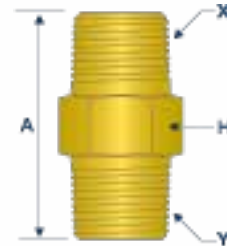
Straight Adapter
Male (X) - 1/8"-27 NPTF
Male (Y) - 1/2"-27 SPL-PTF



10199 + BRASS

H10202B

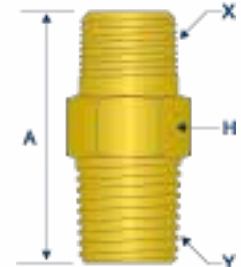
Straight Adapter
Male (X) - 1/2"-27 SPL-PTF
Male (Y) - 1/2"-27 NPTF



10202 + BRASS

H10198B

Straight Adapter
Male (X) - 1/2"-27 SPL-PTF
Male (Y) - 1/4"-18 NPTF



10198 + BRASS

ITEM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H41729	3/8"-18 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.44"	11/16"
H44734	3/8"-18 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.38"	11/16"
H10713	3/8"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.45"	3/4"
H50610	1/2"-14 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.62"	7/8"
H1222	1/8"-27 NPT (M)	1/8"-27 NPT (M)	STRAIGHT	.75"	□
H10199B	1/2"-27 SPL-PTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1.12"	9/16"
H10202B	1/2"-27 NPTF (M)	1/2"-27 SPL-PTF (M)	STRAIGHT	1.19"	9/16"
H10198B	1/4"-18 NPTF (M)	1/2"-27 SPL-PTF (M)	STRAIGHT	1.31"	9/16"

Common Parts
Parts with this designation are in wide distribution.

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Lincoln Industrial®
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ADAPTERS

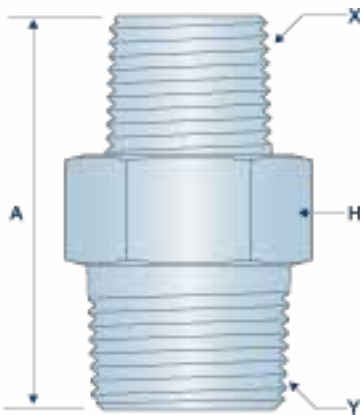
MALE x MALE

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 ARE APPROXIMATE ACTUAL SIZE

H12106

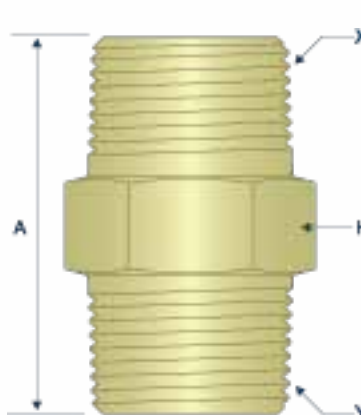
Straight Adapter
Male (X) - 1/2"-14 NPTF
Male (Y) - 3/4"-14 NPTF



L 12106

H336842

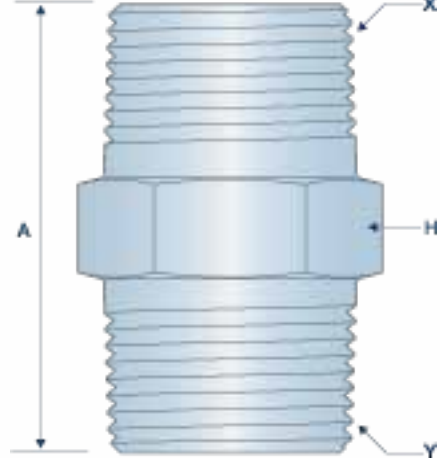
Straight Adapter
Male (X) - 3/4"-14 NPTF
Male (Y) - 3/4"-14 NPTF



A 336842

H336843

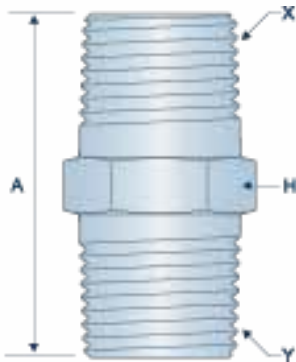
Straight Adapter
Male (X) - 1"-11 1/2 NPTF
Male (Y) - 1"-11 1/2 NPTF



A 336843

H51888

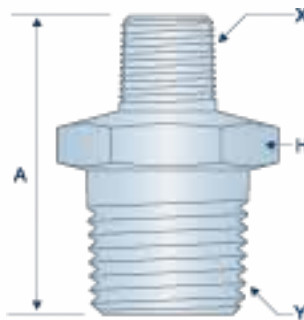
Straight Adapter
Male (X) - 1/2"-14 NPTF
Male (Y) - 1/2"-14 NPTF



A 51888
L 11197

H307925

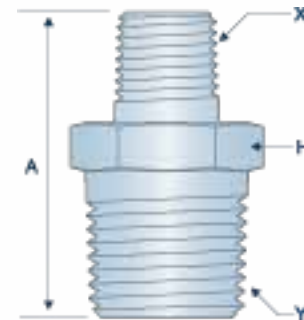
Straight Adapter
Male (X) - 1/2"-27 NS Taper
Male (Y) - 1/2"-14 NPTF



A 307925

H130552

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



A 130552

ITEM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H12106	3/4"-14 NPTF (M)	1/2"-14 NPTF (M)	STRAIGHT	2.13"	1 1/16"
H336842	3/4"-14 NPTF (M)	3/4"-14 NPTF (M)	STRAIGHT	1.96"	1 1/8"
H336843	1"-11 1/2 NPTF (M)	1"-11 1/2 NPTF (M)	STRAIGHT	2.34"	1 3/8"
H51888	1/2"-14 NPTF (M)	1/2"-14 NPTF (M)	STRAIGHT	1.81"	7/8"
H307925	1/2"-14 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.56"	1"
H130552	1/2"-14 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.59"	7/8"

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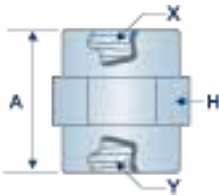
ADAPTERS

FEMALE × FEMALE

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.

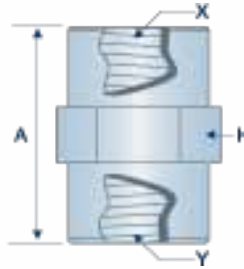
H85425

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



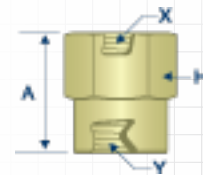
H85400

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



HFEM01

Straight Adapter
Female (X) - 1/4"-28 UNF
Female (Y) - 1/8"-27 NPTF



ITEM #	FEMALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
H85425 *	1/8"-27 NPTF (F)	1/8"-27 NPTF (F)	STRAIGHT	.75"	5/8"
H85400	1/4"-18 NPTF (F)	1/4"-18 NPTF (F)	STRAIGHT	1.14"	3/4"
HFEM01	1/8"-27 NPTF (F)	1/4"-28 UNF (F)	STRAIGHT	.65"	1/2"

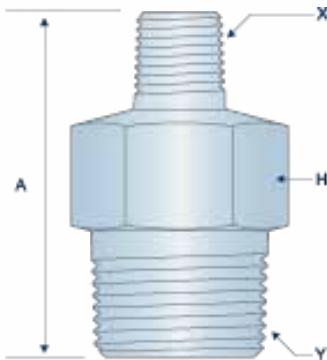
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ADAPTERS

MALE × MALE

HI4721

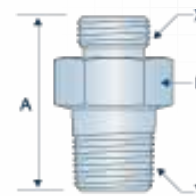
Straight Adapter
Male (X) - 1/4"-18 NPTF
Male (Y) - 3/4"-14 NPTF



HI4721

H47103

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



H47103

ITEM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
HI4721	3/4"-14 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	2.07"	1 1/8"
H47103	1/2"-27 NS TAPER (M)	7/16"-27 UNS (M)	STRAIGHT	1.06"	5/8"

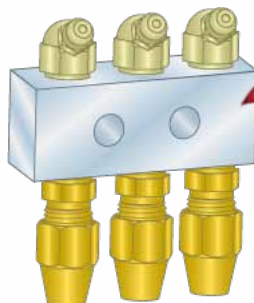
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HEADER BLOCKS

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

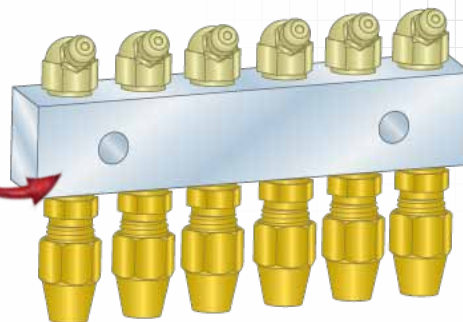
Header Block
1/8" NPT
3-Point



 6135
 14771

H6136

Header Block
1/8" NPT
6-Point



 6136
 14772

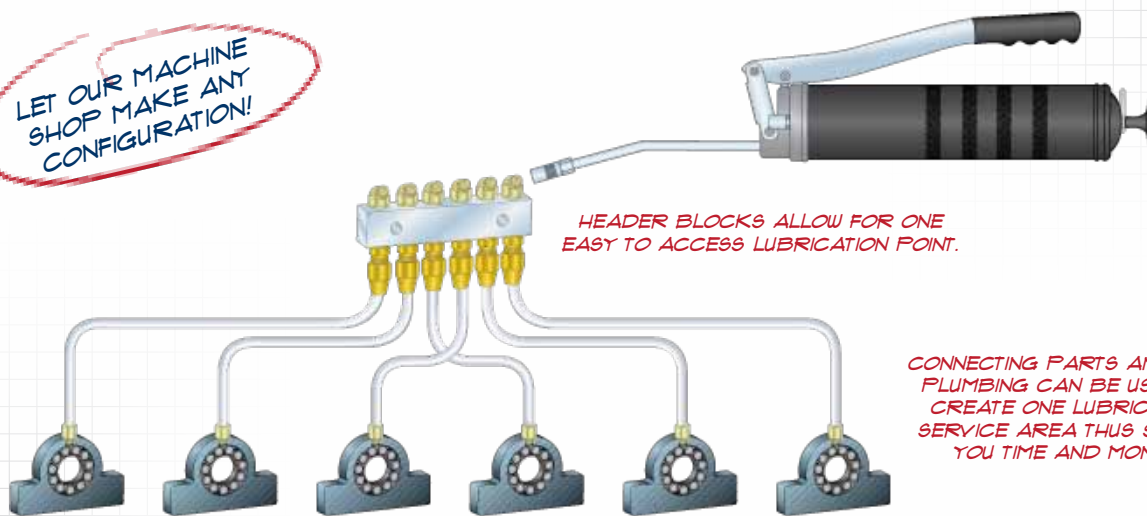
CONVENIENT
MOUNTING
HOLES

ITEM #	INLET THREAD SERIES	NO. OF INLETS	OVERALL LENGTH	OVERALL HEIGHT	OVERALL DEPTH	MOUNTING HOLE SIZE
H6135	1/8" NPT	3	2.75"	0.75"	0.75"	11/32"
H6136	1/8" NPT	6	5.75"	0.75"	0.75"	9/32"

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HOW THEY WORK

LET OUR MACHINE SHOP MAKE ANY CONFIGURATION!




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.

 Common Parts
Parts with this designation are in wide distribution.

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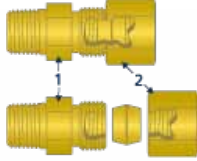
TUBING CONNECTORS

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1/4" TUBING INLET

H328303

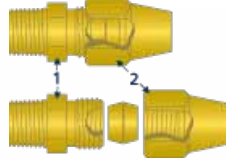
Straight Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 1/2"



A 328303-42

H66200

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



L 66200

H66201

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

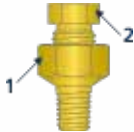


L 66201

1/8" TUBING INLET

H66714

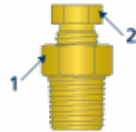
Straight Tubing Connector
1/4"-28 SAE-LT
(Hex 1): 7/16" (Hex 2): 5/16"



L 66714

H66415

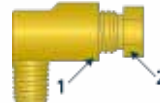
Straight Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 5/16"



L 66415

H66716

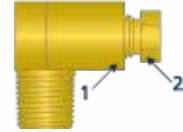
90° Angle Tubing Connector
1/4"-28 SAE-LT
(Hex 1): 7/16" (Hex 2): 5/16"



L 66716

H66414

90° Angle Tubing Connector
1/8"-27 NPT
(Hex 1): 7/16" (Hex 2): 5/16"



L 66414

COMPRESSION NUTS

H66260

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



L 66260

FOR 1/8" TUBING INLET

H68464

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



L 68464

FOR 1/4" TUBING INLET

H68462

Compression Sleeve



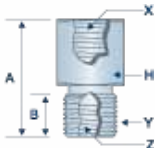
L 68462

FOR 1/4" TUBING INLET

BULKHEAD CONNECTOR

H13154

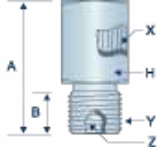
Straight Bulkhead Connector
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPSM
Female (Z) - 1/4"-28 UNF
(A): 0.88" (B): 0.38" (H): 1/2"



L 13154

H13155

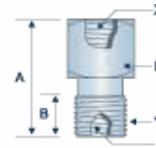
90° Angle Bulkhead Connector
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 NPSM
Female (Z) - 1/4"-28 UNF
(A): 1.0" (B): 0.38" (H): 1/2"



L 13155

H14054

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"



L 14054

H51055

Bulkhead Connector Nut
1/8"-27 NPSM



L 51055

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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

1/8" TAPER FLUSH



TYPE J

3/4" TAPER FLUSH



TYPE K

SIZE CODES

IMPERIAL			
1/16"	0062	1"	1000
1/8"	0125	1 1/4"	1250
1/4"	0250	1 1/2"	1500
3/8"	0375	2"	2000
1/2"	0500	2 1/2"	2500
3/4"	0750	3"	3000

METRIC			
6.0 MM	M06	18.0 MM	M18
8.0 MM	M08	20.0 MM	M20
10.0 MM	M10	22.0 MM	M22
12.0 MM	M12	24.0 MM	M24
14.0 MM	M14	26.0 MM	M26
16.0 MM	M16	30.0 MM	M30

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PIPE PLUGS

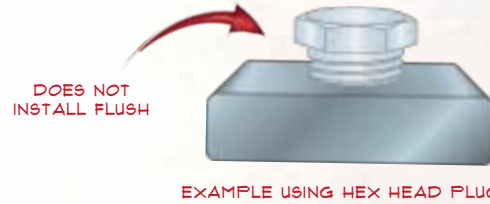
The specific thread design of pipe plugs can have significant functional impacts.

TAPER THREAD

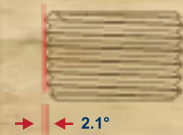
3/4" TAPER SEAL



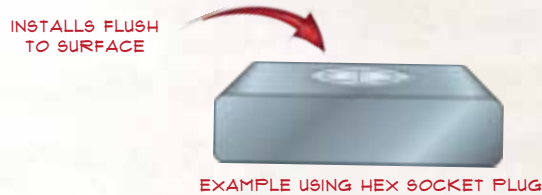
3/4" taper is the standard taper for NPT pipe threads. Plugs with these threads are not designed to install flush to the surrounding surface.



1/8" TAPER FLUSH SEAL



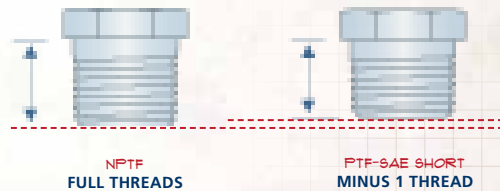
1/8" taper threads are unique in that they will allow the plug to install flush with the surrounding surface. These plugs can only be installed into tapered NPT or NPTF threaded holes.







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 THREADS.



PART ORDERING CODES

DRIVE TYPE CODES		SPECIFICATION CODES		MATERIAL CODES		FINISH CODES	
SQUARE HEAD	A	ASME B16.11	11	LOW CARBON STEEL	LC	PLAIN	PP
HEX HEAD	B	ASME B16.14	14	ALLOY STEEL	AS	BLACK OXIDE	BO
HEX HEAD SMALL	C	SAE J531	31	STAINLESS STEEL	SS	CADMIUM	CD
SQUARE SOCKET	D	1/8" TAPER FLUSH	18	316 STAINLESS STEEL	S6	DELTAONE / DELTA SEAL	D6
HEX SOCKET	E	 DIN 906/3858	B6	BRASS	BR	GEOMET	GT
SLOTTED	F	 DIN 909/3858	B9	ALUMINUM	AL	ZINC CLEAR TRIVALENT	Z3
SIX LOBE	G	 BSPT/BS21	B6	FORGED STEEL	FS	ZINC YELLOW TRIVALENT	Y3
HEX SKT. FOR GAS	H	 DIN 906/158	D6	CAST STEEL	CS	ZINC YELLOW HEXAVALENT	Y6
1/8" TAPER FLUSH	J	 DIN 909/158	D9			ZINC PHOSPHATE	ZP
 3/4" TAPER FLUSH	K	 JIS D2101	JF				
		 JIS D2101	JS				
		SS-102	02				

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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 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 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 909/3858

SMALL HEX HEAD BRITISH THREADS



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

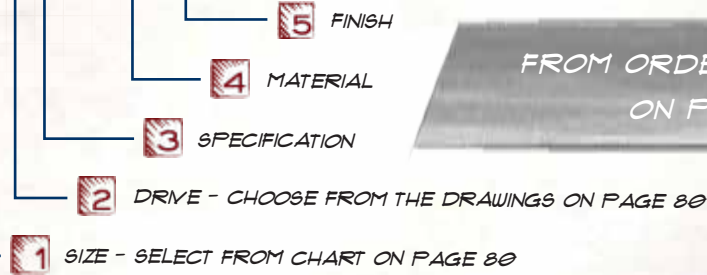
- COLD FORMED
- BRIGHT/ SMOOTH SURFACE

PIPE PLUGS

HOW TO ORDER

(IMPERIAL)
PP - 0500A11 - LCPP

(METRIC)
PP - M20CD9 - LCPP



FROM ORDERING CODES
ON PAGE 81

IMPERIAL DRIVE TYPE OPTIONS										
THREAD SIZE	DRIVE TYPE CODES									
	A	B	C	D	E	F	G	H	J	K
1/16-21	X	X	X	X	X	X	X		X	
1/8-21	X	X	X	X	X	X	X		X	
1/4-18	X	X	X	X	X		X		X	
3/8-18	X	X	X	X	X		X		X	
1/2-14	X	X	X	X	X		X		X	
3/4-14	X	X	X	X	X		X		X	
1-11.5	X	X	X	X	X				X	

IMPERIAL DRIVE TYPE OPTIONS, CONT.										
THREAD SIZE	DRIVE TYPE CODES									
	A	B	C	D	E	F	G	H	J	K
1 1/4-11.5	X	X		X	X				X	
1 1/2-11.5	X	X		X	X				X	
2-11.5	X	X		X	X					
2 1/2-8	X	X		X						
3-8	X	X		X						
4-8	X	X		X						

BRITISH DRIVE TYPE OPTIONS										
THREAD SIZE	DRIVE TYPE CODES									
	A	B	C	D	E	F	G	H	J	K
1/8-28	X	X	X		X			X		X
1/4-19	X	X	X		X			X		X
3/8-19	X	X	X		X			X		X
1/2-14	X	X	X		X			X		X
3/4-14	X	X	X		X			X		X
1-11	X				X			X		X
1 1/4-11					X					X

METRIC DRIVE TYPE OPTIONS										
THREAD SIZE	DRIVE TYPE CODES									
	A	B	C	D	E	F	G	H	J	K
M6 x 1.0					X					
M8 x 1.0			X		X					
M10 x 1.5			X		X					
M12 x 1.5			X		X					
M14 x 1.5			X		X					
M16 x 1.5			X		X					
M18 x 1.5			X		X					
M20 x 1.5			X		X					
M22 x 1.5			X		X					
M24 x 1.5			X		X					
M26 x 1.5					X					
M30 x 1.5					X					

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 2011

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.



DUROMETER REFERS TO THE MATERIAL HARDNESS.

SIZING

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

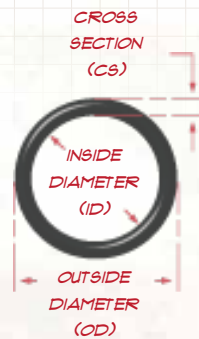
Be careful in measuring O-Rings that are damaged or stretched from removal.



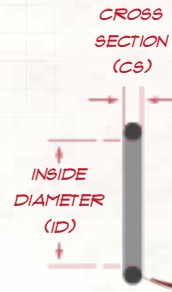
Consider using an O-Ring cone, found on page 86, for measuring.

CROSS SECTION IS ALSO COMMONLY REFERRED TO AS THE O-RING'S WIDTH.

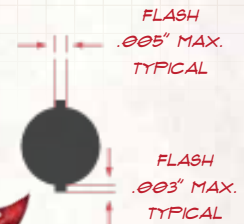
FRONT VIEW



SIDE VIEW



CROSS SECTION



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.

MALE SEAL



FEMALE SEAL






FACE SEAL



SEVERAL O-RING SEAL TYPES EXIST. LISTED HERE ARE THE MOST COMMON.

SPECIAL O-RING SEAL TYPES

SPECIAL ORDER

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

900 SERIES: STRAIGHT THREAD TUBE FITTING BOSSES






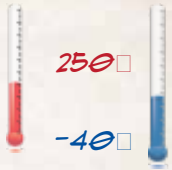



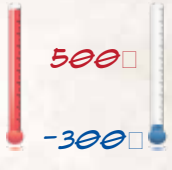




900 Series O-Rings are also known as Boss Seals. These O-Rings are primarily used for hydraulic tubing and straight threads to create a seal under compression.

O-RINGS

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

TO ORDER, SPECIFY MATERIAL PREFIX + SIZE NUMBER

PRODUCT NAME (A.K.A.)	MATERIAL PREFIX	MATERIAL COLOR	MATERIAL DESCRIPTION	BASIC TEMPERATURE RANGE (F)
BUNA-N® also known as: • NBR	OR-	 BLACK	<ul style="list-style-type: none"> • 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. <p><i>OFFERED IN 70A OR 90A DUROMETER</i></p>	 225 □ -40 □
NEOPRENE® also known as: • CHLOROPRENE	ORN-	 BLACK	<ul style="list-style-type: none"> • Good resistance to petroleum oils. • Low compression set and good abrasion strength. • Good resistance to weathering, sunlight and ozone. <p><i>OFFERED IN 70A DUROMETER</i></p>	 250 □ -40 □
VITON® also known as: • FLUOREL • FLUOROCARBON	ORY-	 BROWN	<ul style="list-style-type: none"> • 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. <p><i>OFFERED IN 75A DUROMETER</i></p>	 400 □ -15 □
TEFLON® also known as: • PTFE	ORT-	 WHITE	<ul style="list-style-type: none"> • Excellent temperature range. • Resistant to various chemicals and fuels. • Low coefficient of friction. • Non-elastic. <p><i>OFFERED IN 55D DUROMETER</i></p>	 500 □ -300 □
SILICONE also known as: • SILASTIC®	ORS-	 RED	<ul style="list-style-type: none"> • Broad temperature range. • Odorless / non-toxic. • Resistant to sun and ozone. • Fungus resistant. • Poor tear and abrasion strength. • Poor resistance to petroleum oils. <p><i>OFFERED IN 70A DUROMETER</i></p>	 450 □ -65 □
EPDM also known as: • EPT • ETHYLENE-PROPYLENE	ORE-	 BLACK	<ul style="list-style-type: none"> • Resistant to sunlight, weathering and ozone. • Good heat and compression set resistance. • Poor resistance to petroleum oils and fuel. <p><i>OFFERED IN 70A DUROMETER</i></p>	 300 □ -65 □

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 2011

Buna-N®, Neoprene®, Viton® & Teflon® are Registered Trademarks of E. I. DuPont Company, Wilmington, DE, USA. AFLAS® is a registered trademark of the Asahi Glass Co., Ltd. Tokyo, Japan. Silastic® is a registered trademark of the Dow Corning Co., LTD. Midland, MI USA. Skydrol® is a registered trademark of the Solutia Inc. Co., Ltd. St. Louis, MO USA

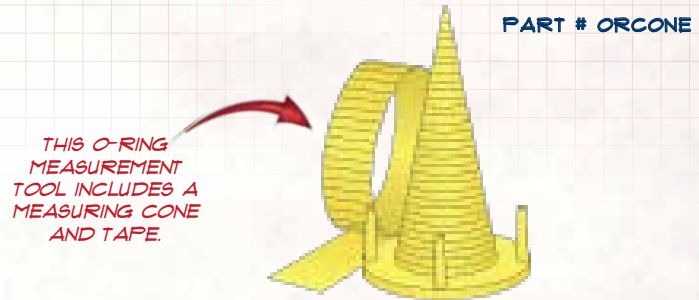
O-RINGS - ACCESSORIES

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.

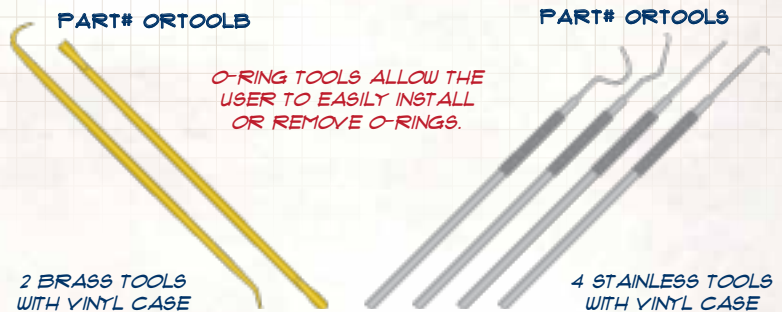
PART #: ORCONE



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.

STAINLESS STEEL PART #: ORTOOLS
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

O-RING SPLICING KIT INCLUDES A VARIETY OF O-RING MATERIAL SIZES, O-RING GLUE, RAZOR BLADE AND AN O-RING MEASURING TOOL.

FOR STANDARD: DISP-ORSPLICE
FOR METRIC: DISP-ORMSPLICE



GO TO WWW.HUYETT.COM FOR MORE DETAILS.

O-RINGS - 1/16" & 3/32"

AS 568

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® rubber, Neoprene® and Viton®.

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
CS: 1/32" (.040" ACTUAL)			
-001	3/32"	1/32"	.029" ± .004
CS: 3/64" (.050" ACTUAL)			
-002	9/64"	3/64"	.042" ± .004
CS: 1/16" (.060" ACTUAL)			
-003	3/16"	1/16"	.056" ± .004
CS: 1/16" (.070" ACTUAL)			
-004	13/64"	5/64"	.070" ± .005
-005	7/32"	3/32"	.101" ± .005
-006	1/4"	1/8"	.114" ± .005
-007	9/32"	5/32"	.145" ± .005
-008	5/16"	3/16"	.176" ± .005
-009	11/32"	7/32"	.208" ± .005
-010	3/8"	1/4"	.239" ± .005
-011	7/16"	5/16"	.301" ± .005
-012	1/2"	3/8"	.364" ± .005
-013	9/16"	7/16"	.426" ± .005
-014	5/8"	1/2"	.489" ± .005
-015	11/16"	9/16"	.551" ± .007
-016	3/4"	5/8"	.614" ± .009
-017	13/16"	11/16"	.676" ± .009
-018	7/8"	3/4"	.739" ± .009
-019	15/16"	13/16"	.801" ± .009
-020	1"	7/8"	.864" ± .009
-021	1 1/16"	15/16"	.926" ± .009
-022	1 1/8"	1"	.989" ± .010
-023	1 3/16"	1 1/16"	1.051" ± .010
-024	1 1/4"	1 1/8"	1.114" ± .010
-025	1 5/16"	1 3/16"	1.176" ± .011
-026	1 3/8"	1 1/4"	1.239" ± .011
-027	1 7/16"	1 5/16"	1.301" ± .011
-028	1 1/2"	1 3/8"	1.364" ± .013
-029	1 5/8"	1 1/2"	1.426" ± .013
-030	1 3/4"	1 5/8"	1.489" ± .013
-031	1 7/8"	1 3/4"	1.551" ± .015
-032	2"	1 7/8"	1.614" ± .015
-033	2 1/8"	2"	1.676" ± .018
-034	2 1/4"	2 1/8"	1.739" ± .018
-035	2 3/8"	2 1/4"	1.801" ± .018
-036	2 1/2"	2 3/8"	1.864" ± .018
-037	2 5/8"	2 1/2"	1.926" ± .018
-038	2 3/4"	2 5/8"	1.989" ± .020
-039	2 7/8"	2 3/4"	2.051" ± .020
-040	3"	2 7/8"	2.114" ± .020

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
-041	3 1/8"	3"	2.989" ± .024
-042	3 3/8"	3 1/4"	3.239" ± .024
-043	3 5/8"	3 1/2"	3.489" ± .024
-044	3 7/8"	3 3/4"	3.739" ± .027
-045	4 1/8"	4"	3.989" ± .027
-046	4 3/8"	4 1/4"	4.239" ± .030
-047	4 5/8"	4 1/2"	4.489" ± .030
-048	4 7/8"	4 3/4"	4.739" ± .030
-049	5 1/8"	5"	4.989" ± .037
-050	5 3/8"	5 1/4"	5.239" ± .037
CS: 3/32" (.103" ACTUAL)			
-102	1/4"	1/16"	.049" ± .005
-103	9/32"	3/32"	.081" ± .005
-104	5/16"	1/8"	.112" ± .005
-105	11/32"	5/32"	.143" ± .005
-106	3/8"	3/16"	.174" ± .005
-107	13/32"	7/32"	.206" ± .005
-108	7/16"	1/4"	.237" ± .005
-109	1/2"	5/16"	.299" ± .005
-110	9/16"	3/8"	.362" ± .005
-111	5/8"	7/16"	.424" ± .005
-112	11/16"	1/2"	.487" ± .005
-113	3/4"	9/16"	.549" ± .007
-114	13/16"	5/8"	.612" ± .009
-115	7/8"	11/16"	.674" ± .009
-116	15/16"	3/4"	.737" ± .009
-117	1"	13/16"	.799" ± .010
-118	1 1/16"	7/8"	.862" ± .010
-119	1 1/8"	15/16"	.924" ± .010
-120	1 3/16"	1"	.987" ± .010
-121	1 1/4"	1 1/16"	1.049" ± .010
-122	1 5/16"	1 1/8"	1.112" ± .010
-123	1 3/8"	1 3/16"	1.174" ± .012
-124	1 7/16"	1 1/4"	1.237" ± .012
-125	1 1/2"	1 5/16"	1.299" ± .012
-126	1 9/16"	1 3/8"	1.362" ± .012
-127	1 5/8"	1 7/16"	1.424" ± .012
-128	1 11/16"	1 1/2"	1.487" ± .012
-129	1 3/4"	1 9/16"	1.549" ± .015
-130	1 13/16"	1 5/8"	1.612" ± .015
-131	1 7/8"	1 11/16"	1.674" ± .015
-132	1 15/16"	1 3/4"	1.737" ± .015
-133	2"	1 13/16"	1.799" ± .015
-134	2 1/16"	1 7/8"	1.862" ± .015

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
-135	2 1/8"	1 15/16"	1.925" ± .017
-136	2 3/16"	2"	1.987" ± .017
-137	2 1/4"	2 1/16"	2.050" ± .017
-138	2 5/16"	2 1/8"	2.112" ± .017
-139	2 3/8"	2 3/16"	2.175" ± .017
-140	2 7/16"	2 1/4"	2.237" ± .017
-141	2 1/2"	2 5/16"	2.300" ± .020
-142	2 9/16"	2 3/8"	2.362" ± .020
-143	2 5/8"	2 7/16"	2.425" ± .020
-144	2 11/16"	2 1/2"	2.487" ± .020
-145	2 3/4"	2 9/16"	2.550" ± .020
-146	2 13/16"	2 5/8"	2.612" ± .020
-147	2 7/8"	2 11/16"	2.675" ± .022
-148	2 15/16"	2 3/4"	2.737" ± .022
-149	3"	2 13/16"	2.800" ± .022
-150	3 1/16"	2 7/8"	2.862" ± .022
-151	3 3/16"	3"	2.925" ± .024
-152	3 7/16"	3 1/4"	3.237" ± .024
-153	3 11/16"	3 1/2"	3.487" ± .024
-154	3 15/16"	3 3/4"	3.737" ± .028
-155	4 3/16"	4"	3.987" ± .028
-156	4 7/16"	4 1/4"	4.237" ± .030
-157	4 11/16"	4 1/2"	4.487" ± .030
-158	4 15/16"	4 3/4"	4.737" ± .030
-159	5 3/16"	5"	4.987" ± .035
-160	5 7/16"	5 1/4"	5.237" ± .035
-161	5 11/16"	5 1/2"	5.487" ± .035
-162	5 15/16"	5 3/4"	5.737" ± .035
-163	6 3/16"	6"	5.987" ± .035
-164	6 7/16"	6 1/4"	6.237" ± .040
-165	6 11/16"	6 1/2"	6.487" ± .040
-166	6 15/16"	6 3/4"	6.737" ± .040
-167	7 3/16"	7"	6.987" ± .040
-168	7 7/16"	7 1/4"	7.237" ± .045
-169	7 11/16"	7 1/2"	7.487" ± .045
-170	7 15/16"	7 3/4"	7.737" ± .045
-171	8 3/16"	8"	7.987" ± .045
-172	8 7/16"	8 1/4"	8.237" ± .050
-173	8 11/16"	8 1/2"	8.487" ± .050
-174	8 15/16"	8 3/4"	8.737" ± .050
-175	9 3/16"	9"	8.987" ± .050
-176	9 7/16"	9 1/4"	9.237" ± .055
-177	9 11/16"	9 1/2"	9.487" ± .055
-178	9 15/16"	9 3/4"	9.737" ± .055

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O-RINGS - 1/8" & 3/16"

AS 568

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.

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
CS: 1/8" (.139" ACTUAL)			
-201	7/16"	3/16"	.171" ± .005
-202	1/2"	1/4"	.234" ± .005
-203	9/16"	5/16"	.296" ± .005
-204	5/8"	3/8"	.359" ± .005
-205	11/16"	7/16"	.421" ± .005
-206	3/4"	1/2"	.484" ± .005
-207	13/16"	9/16"	.546" ± .007
-208	7/8"	5/8"	.609" ± .009
-209	15/16"	11/16"	.671" ± .009
-210	1"	3/4"	.734" ± .010
-211	1 1/16"	13/16"	.796" ± .010
-212	1 1/8"	7/8"	.859" ± .010
-213	1 3/16"	15/16"	.921" ± .010
-214	1 1/4"	1"	.984" ± .010
-215	1 5/16"	1 1/16"	1.046" ± .010
-216	1 3/8"	1 1/8"	1.109" ± .012
-217	1 7/16"	1 3/16"	1.171" ± .012
-218	1 1/2"	1 1/4"	1.234" ± .012
-219	1 9/16"	1 5/16"	1.296" ± .012
-220	1 5/8"	1 3/8"	1.359" ± .012
-221	1 11/16"	1 7/16"	1.421" ± .012
-222	1 3/4"	1 1/2"	1.484" ± .015
-223	1 7/8"	1 5/8"	1.609" ± .015
-224	2"	1 3/4"	1.734" ± .015
-225	2 1/8"	1 7/8"	1.859" ± .018
-226	2 1/4"	2"	1.984" ± .018
-227	2 3/8"	2 1/8"	2.109" ± .018
-228	2 1/2"	2 1/4"	2.234" ± .020
-229	2 5/8"	2 3/8"	2.359" ± .020
-230	2 3/4"	2 1/2"	2.484" ± .020
-231	2 7/8"	2 5/8"	2.609" ± .020
-232	3"	2 3/4"	2.734" ± .024
-233	3 1/8"	2 7/8"	2.859" ± .024
-234	3 1/4"	3"	2.984" ± .024
-235	3 3/8"	3 1/8"	3.109" ± .024
-236	3 1/2"	3 1/4"	3.234" ± .024
-237	3 5/8"	3 3/8"	3.359" ± .024
-238	3 3/4"	3 1/2"	3.484" ± .024
-239	3 7/8"	3 5/8"	3.609" ± .028
-240	4"	3 3/4"	3.734" ± .028
-241	4 1/8"	3 7/8"	3.859" ± .028
-242	4 1/4"	4"	3.984" ± .028

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
-243	4 3/8"	4 1/8"	4.109" ± .028
-244	4 1/2"	4 1/4"	4.234" ± .030
-245	4 5/8"	4 3/8"	4.359" ± .030
-246	4 3/4"	4 1/2"	4.484" ± .030
-247	4 7/8"	4 5/8"	4.609" ± .030
-248	5"	4 3/4"	4.734" ± .030
-249	5 1/8"	4 7/8"	4.859" ± .035
-250	5 1/4"	5"	4.984" ± .035
-251	5 3/8"	5 1/8"	5.109" ± .035
-252	5 1/2"	5 1/4"	5.234" ± .035
-253	5 5/8"	5 3/8"	5.359" ± .035
-254	5 3/4"	5 1/2"	5.484" ± .035
-255	5 7/8"	5 5/8"	5.609" ± .035
-256	6"	5 3/4"	5.734" ± .035
-257	6 1/8"	5 7/8"	5.859" ± .035
-258	6 1/4"	6"	5.984" ± .035
-259	6 1/2"	6 1/4"	6.234" ± .040
-260	6 3/4"	6 1/2"	6.484" ± .040
-261	7"	6 3/4"	6.734" ± .040
-262	7 1/4"	7"	6.984" ± .040
-263	7 1/2"	7 1/4"	7.234" ± .045
-264	7 3/4"	7 1/2"	7.484" ± .045
-265	8"	7 3/4"	7.734" ± .045
-266	8 1/4"	8"	7.984" ± .045
-267	8 1/2"	8 1/4"	8.234" ± .050
-268	8 3/4"	8 1/2"	8.484" ± .050
-269	9"	8 3/4"	8.734" ± .050
-270	9 1/4"	9"	8.984" ± .050
-271	9 1/2"	9 1/4"	9.234" ± .055
-272	9 3/4"	9 1/2"	9.484" ± .055
-273	10"	9 3/4"	9.734" ± .055
-274	10 1/4"	10"	9.984" ± .055
-275	10 3/4"	10 1/2"	10.484" ± .055
-276	11 1/4"	11"	10.984" ± .065
-277	11 3/4"	11 1/2"	11.484" ± .065
-278	12 1/4"	12"	11.984" ± .065
-279	13 1/4"	13"	12.984" ± .065
-280	14 1/4"	14"	13.984" ± .065
-281	15 1/4"	15"	14.984" ± .065
-282	16 1/4"	16"	15.984" ± .075
-283	17 1/4"	17"	16.984" ± .080
-284	18 1/4"	18"	17.984" ± .085

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
CS: 3/16" (.210" ACTUAL)			
-309	13/16"	7/16"	.412" ± .005
-310	7/8"	1/2"	.475" ± .005
-311	15/16"	9/16"	.537" ± .007
-312	1"	5/8"	.600" ± .009
-313	1 1/16"	11/16"	.662" ± .009
-314	1 1/8"	3/4"	.725" ± .010
-315	1 3/16"	13/16"	.787" ± .010
-316	1 1/4"	7/8"	.850" ± .010
-317	1 5/16"	15/16"	.912" ± .010
-318	1 3/8"	1"	.975" ± .010
-319	1 7/16"	1 1/16"	1.037" ± .010
-320	1 1/2"	1 1/8"	1.100" ± .012
-321	1 9/16"	1 3/16"	1.162" ± .012
-322	1 5/8"	1 1/4"	1.225" ± .012
-323	1 11/16"	1 5/16"	1.287" ± .012
-324	1 3/4"	1 3/8"	1.350" ± .012
-325	1 7/8"	1 1/2"	1.412" ± .015
-326	2"	1 5/8"	1.600" ± .015
-327	2 1/8"	1 3/4"	1.725" ± .015
-328	2 1/4"	1 7/8"	1.850" ± .015
-329	2 3/8"	2"	1.975" ± .018
-330	2 1/2"	2 1/8"	2.100" ± .018
-331	2 5/8"	2 1/4"	2.225" ± .018
-332	2 3/4"	2 3/8"	2.350" ± .018
-333	2 7/8"	2 1/2"	2.475" ± .020
-334	3"	2 5/8"	2.600" ± .020
-335	3 1/8"	2 3/4"	2.725" ± .020
-336	3 1/4"	2 7/8"	2.850" ± .020
-337	3 3/8"	3"	2.975" ± .024
-338	3 1/2"	3 1/8"	3.100" ± .024
-339	3 5/8"	3 1/4"	3.225" ± .024
-340	3 3/4"	3 3/8"	3.350" ± .024
-341	3 7/8"	3 1/2"	3.475" ± .024
-342	4"	3 5/8"	3.600" ± .028
-343	4 1/8"	3 3/4"	3.725" ± .028
-344	4 1/4"	3 7/8"	3.850" ± .028
-345	4 3/8"	4"	3.975" ± .028
-346	4 1/2"	4 1/8"	4.100" ± .028
-347	4 5/8"	4 1/4"	4.225" ± .030
-348	4 3/4"	4 3/8"	4.350" ± .030
-349	4 7/8"	4 1/2"	4.475" ± .030
-350	5"	4 5/8"	4.600" ± .030
-351	5 1/8"	4 3/4"	4.725" ± .030

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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.

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
CS: 3/16" (.210" ACTUAL) CONT.			
-352	5 1/4"	4 7/8"	4.850" ± .030
-353	5 3/8"	5"	4.975" ± .031
-354	5 1/2"	5 1/8"	5.100" ± .031
-355	5 5/8"	5 1/4"	5.225" ± .031
-356	5 3/4"	5 3/8"	5.350" ± .031
-357	5 7/8"	5 1/2"	5.475" ± .031
-358	6"	5 5/8"	5.600" ± .031
-359	6 1/8"	5 3/4"	5.725" ± .031
-360	6 1/4"	5 7/8"	5.850" ± .031
-361	6 3/8"	6"	5.975" ± .031
-362	6 5/8"	6 1/4"	6.225" ± .040
-363	6 7/8"	6 1/2"	6.475" ± .040
-364	7 1/8"	6 3/4"	6.725" ± .040
-365	7 3/8"	7"	6.975" ± .040
-366	7 5/8"	7 1/4"	7.225" ± .045
-367	7 7/8"	7 1/2"	7.475" ± .045
-368	8 1/8"	7 3/4"	7.725" ± .045
-369	8 3/8"	8"	7.975" ± .045
-370	8 5/8"	8 1/4"	8.225" ± .050
-371	8 7/8"	8 1/2"	8.475" ± .050
-372	9 1/8"	8 3/4"	8.725" ± .050
-373	9 3/8"	9"	8.975" ± .050
-374	9 5/8"	9 1/4"	9.225" ± .055
-375	9 7/8"	9 1/2"	9.475" ± .055
-376	10 1/8"	9 3/4"	9.725" ± .055
-377	10 3/8"	10"	9.975" ± .055
-378	10 7/8"	10 1/2"	10.475" ± .060
-379	11 3/8"	11"	10.975" ± .060
-380	11 7/8"	11 1/2"	11.475" ± .065
-381	12 3/8"	12"	11.975" ± .065
-382	13 3/8"	13"	12.975" ± .065
-383	14 3/8"	14"	13.975" ± .070
-384	15 3/8"	15"	14.975" ± .070
-385	16 3/8"	16"	15.955" ± .075
-386	17 3/8"	17"	16.955" ± .080
-387	18 3/8"	18"	17.955" ± .085
-388	19 3/8"	19"	18.955" ± .090
-389	20 3/8"	20"	19.955" ± .095
-390	21 3/8"	21"	20.955" ± .095
-391	22 3/8"	22"	21.955" ± .100
-392	23 3/8"	23"	22.940" ± .105
-393	24 3/8"	24"	23.940" ± .110
-394	25 3/8"	25"	24.940" ± .115
-395	26 3/8"	26"	25.940" ± .120

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
CS: 1/4" (.275" ACTUAL)			
-425	5"	4 1/2"	4.475" ± .033
-426	5 1/8"	4 5/8"	4.600" ± .033
-427	5 1/4"	4 3/4"	4.725" ± .033
-428	5 3/8"	4 7/8"	4.850" ± .033
-429	5 1/2"	5"	4.975" ± .031
-430	5 5/8"	5 1/8"	5.100" ± .031
-431	5 3/4"	5 1/4"	5.225" ± .031
-432	5 7/8"	5 3/8"	5.350" ± .031
-433	6"	5 1/2"	5.475" ± .031
-434	6 1/8"	5 5/8"	5.600" ± .031
-435	6 1/4"	5 3/4"	5.725" ± .031
-436	6 3/8"	5 7/8"	5.850" ± .031
-437	6 1/2"	6"	5.975" ± .031
-438	6 3/4"	6 1/4"	6.225" ± .040
-439	7"	6 1/2"	6.475" ± .040
-440	7 1/4"	6 3/4"	6.725" ± .040
-441	7 1/2"	7"	6.975" ± .040
-442	7 3/4"	7 1/4"	7.225" ± .045
-443	8"	7 1/2"	7.475" ± .045
-444	8 1/4"	7 3/4"	7.725" ± .045
-445	8 1/2"	8"	7.975" ± .045
-446	9"	8 1/2"	8.475" ± .055
-447	9 1/2"	9"	8.975" ± .055
-448	10"	9 1/2"	9.475" ± .055
-449	10 1/2"	10"	9.975" ± .055
-450	11"	10 1/2"	10.475" ± .060
-451	11 1/2"	11"	10.975" ± .060
-452	12"	11 1/2"	11.475" ± .060
-453	12 1/2"	12"	11.975" ± .060
-454	13"	12 1/2"	12.475" ± .060
-455	13 1/2"	13"	12.975" ± .060
-456	14"	13 1/2"	13.475" ± .070
-457	14 1/2"	14"	13.975" ± .070
-458	15"	14 1/2"	14.475" ± .070
-459	15 1/2"	15"	14.975" ± .070
-460	16"	15 1/2"	15.475" ± .070
-461	16 1/2"	16"	15.955" ± .075
-462	17"	16 1/2"	16.455" ± .075
-463	17 1/2"	17"	16.955" ± .080
-464	18"	17 1/2"	17.455" ± .085
-465	18 1/2"	18"	17.955" ± .085
-466	19"	18 1/2"	18.455" ± .085
-467	19 1/2"	19"	18.955" ± .090
-468	20"	19 1/2"	19.455" ± .090

ITEM#	NOMINAL OD	NOMINAL ID	ACTUAL ID
-469	20 1/2"	20"	19.955" ± .095
-470	21 1/2"	21"	20.955" ± .095
-471	22 1/2"	22"	21.955" ± .100
-472	23 1/2"	23"	22.940" ± .105
-473	24 1/2"	24"	23.940" ± .110
-474	25 1/2"	25"	24.940" ± .115
-475	26 1/2"	26"	25.940" ± .120

ITEM#	CROSS SECTION	TUBE SIZE OD	TOLERANCE ID
900 SERIES: STRAIGHT THREAD TUBE FITTING BOSSSES			
-901	.056	3/32"	.185" ± .005
-902	.064	1/8"	.235" ± .005
-903	.064	3/16"	.301" ± .005
-904	.072	1/4"	.351" ± .005
-905	.072	5/16"	.414" ± .005
-906	.078	3/8"	.468" ± .005
-907	.082	7/16"	.530" ± .007
-908	.087	1/2"	.644" ± .009
-909	.097	9/16"	.706" ± .009
-910	.097	5/8"	.755" ± .009
-911	.116	11/16"	.863" ± .009
-912	.116	3/4"	.924" ± .009
-913	.116	13/16"	.986" ± .010
-914	.116	7/8"	1.047" ± .010
-916	.116	1"	1.111" ± .010
-918	.116	1 1/8"	1.355" ± .012
-920	.118	1 1/4"	1.475" ± .014
-924	.118	1 1/2"	1.720" ± .014
-928	.118	1 3/4"	2.090" ± .018
	.118	2"	2.337" ± .018

(SEE PAGE 84 FOR MORE DETAILS.)

PLEASE NOTE...
 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!

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 2011

GREASE GUNS

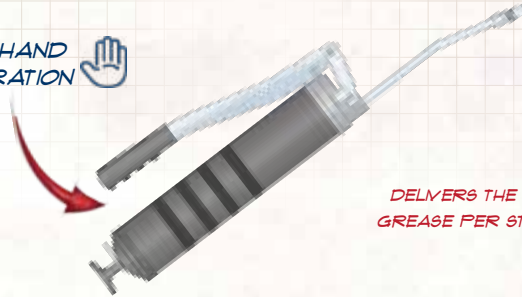
There are many different types and designs of grease guns and we offer lever, pistol, cordless and pneumatic grease guns. We have a gun for practically any application.

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.

LEVER GUNS REQUIRE TWO HANDS TO OPERATE.

 TWO HAND OPERATION 



DELIVERS THE MOST GREASE PER STROKE.

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.

ONLY ONE HAND IS NEEDED TO OPERATE PISTOL-GRIP GREASE GUNS.

 ONE HAND OPERATION



DESIGNED FOR CONFINED SPACES.

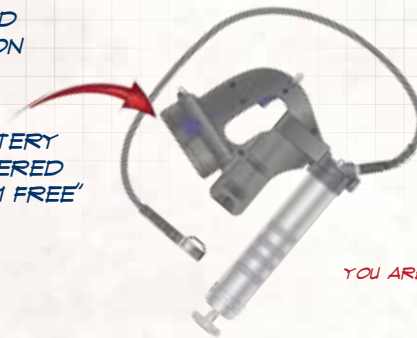
CORDLESS GUN

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.

CORDLESS GREASE GUNS ARE TRIGGER OPERATED, PORTABLE AND CONVENIENT.

 ONE HAND OPERATION

BATTERY POWERED "ROOM FREE"



YOU ARE FREE TO ROAM!

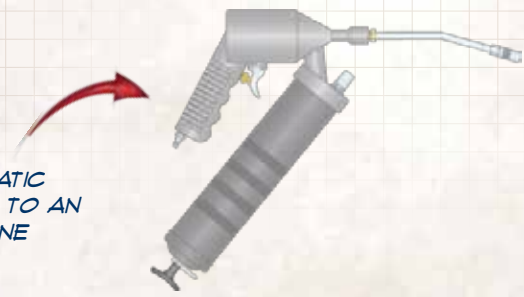
PNEUMATIC GUN

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

PNEUMATIC GREASE GUNS ARE OPERATED BY A TRIGGER INSTEAD OF LEVER.

 ONE HAND OPERATION

PNEUMATIC TETHERED TO AN AIR LINE



GREASE GUN SELECTION

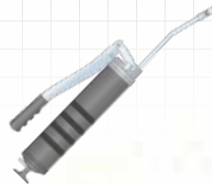
As with any tool, care should be taken in selecting the right grease gun for the application. Over-lubrication or utilization of the wrong grease can damage the tool or the bearing. Also, the grease itself can be a health concern if allowed to penetrate the skin. Below are some guidelines for the selection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

LEVER & PISTOL GRIP



PORTABLE AND CHEAP.

AIR OPERATED



GOOD FOR HIGH VOLUME.

CORDLESS

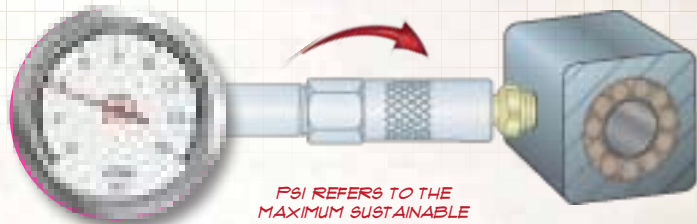


GO ANYWHERE!

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.



PSI REFERS TO THE MAXIMUM SUSTAINABLE PRESSURE MAINTAINED IN THE COUPLER AND FITTING ENGAGEMENT.

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.



MATCHING YOUR GUN WITH THE PROPER ACCESSORIES IS IMPORTANT.

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.

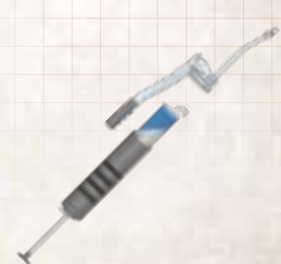
BULK LOAD



SUCTION LOAD



CARTRIDGE LOAD



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.

QUICKLY RELOAD GREASE GUNS USING STANDARD GREASE CARTRIDGES.



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.

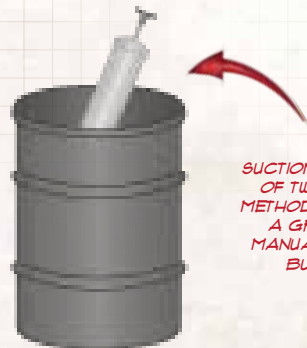
4 **RELEASE PLUNGER LOCK.** Pump lever several times to prime.

AFTER LOADING THE GREASE BARREL AND ATTACHING IT TO THE GUN HEAD, THE AIR BLEEDER VALVE PROVIDES A METHOD FOR RELEASING ENTRAPPED AIR FROM THE GREASE BARREL PROVIDING EASIER GUN PRIMING.

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.

GREASE 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.



BULK LOADER VALVE

AIR BLEEDER VALVE

AIR BLEEDER VALVES ASSIST IN GREASE GUN PRIMING.

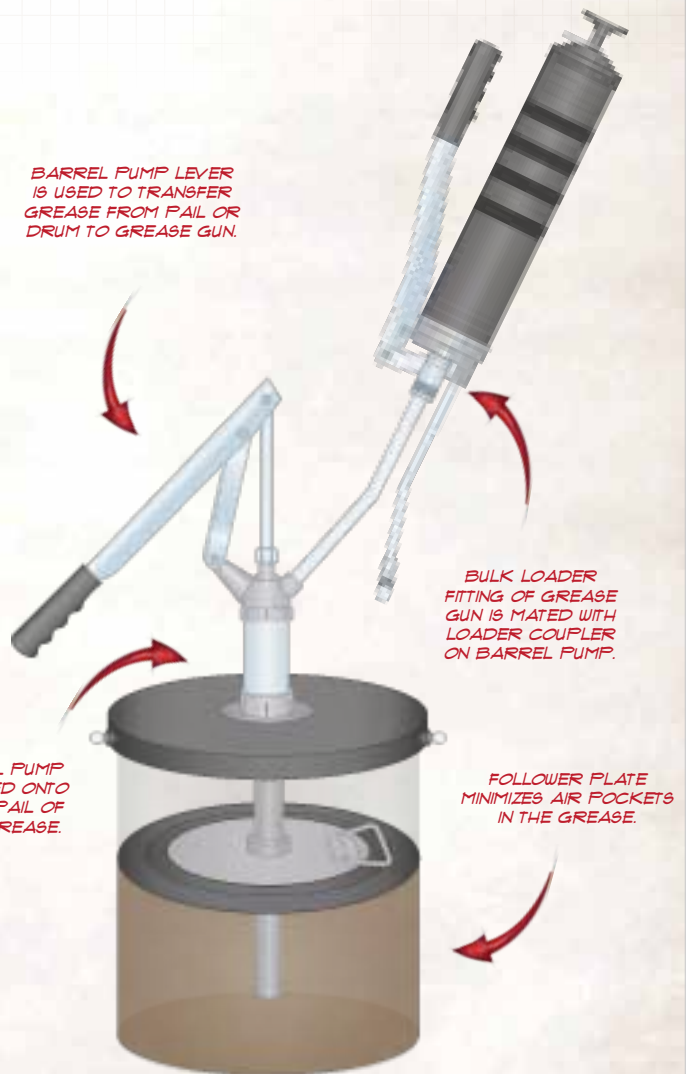
HOW TO BULK LOAD

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.



LEAST ENVIRONMENTAL IMPACT. NO CARTRIDGES TO DISCARD IN LANDFILL.

HOW TO BULK LOAD YOUR GUN



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.

BARREL PUMP INSTALLED ONTO 5 GAL PAIL OF BULK GREASE.

FOLLOWER PLATE MINIMIZES AIR POCKETS IN THE GREASE.



SUPER DUTY - LEVER GREASE GUN

15,000 PSI

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" fittings or to 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

 PER
18
STROKES

WEIGHS 11.5 LBS.

EXTRA LONG SOLID LEVER
FOR MAXIMUM LEVERAGE

"K" SIZE STICK
CARTRIDGE

HOSE, GIANT BUTTON
HEAD COUPLER AND
GAUGE ASSEMBLY
NOT INCLUDED, SEE
BELOW TO ORDER

PRESSURE RELIEF
VALVE RELEASES
EXCESS AIR FROM
GREASE GUN

NONSLIP
TEXTURED
FINISH



15,000 PSI

12 OZ

CYLINDER
CAPACITY



STICK
LOAD



BULK
LOAD



VARIABLE
STROKE

ITEM #	GREASE GUN SERIES	CYLINDER CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81650 *	LEVER - SUPER DUTY	12 OZ.	1 OZ. / 18 STROKES	1/4"-18 NPT	15,000 PSI	11.5 LBS.

PRODUCT INFORMATION



SUPER HIGH PRESSURE: USE WITH CAUTION
HIGH PRESSURES CAN CAUSE CATASTROPHIC FAILURES
AND POSE A SECONDARY INJURY RISK

TO ORDER
HOSE, COUPLER, AND
GAUGE ASSEMBLY USE
ORDER #: H82521

 Common Parts
Parts with this designation
are in wide distribution.

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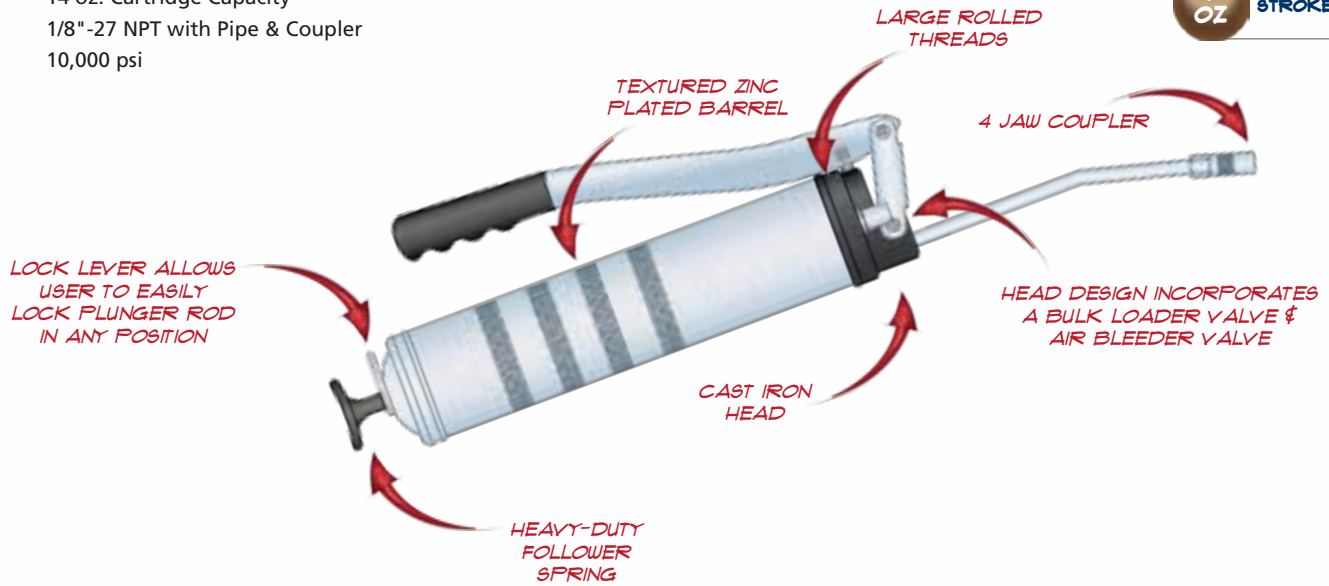
HEAVY DUTY - LEVER GREASE GUN

10,000 PSI

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



CARTRIDGE
LOAD



SUCTION
LOAD



BULK
LOAD



VARIABLE
STROKE

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81600 	LEVER - HEAVY DUTY	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 28 STROKES	1/8"-27 NPT	10,000 PSI	3.9 LBS.

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.

 Common Parts
Parts with this designation
are in wide distribution.

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 John Deere®
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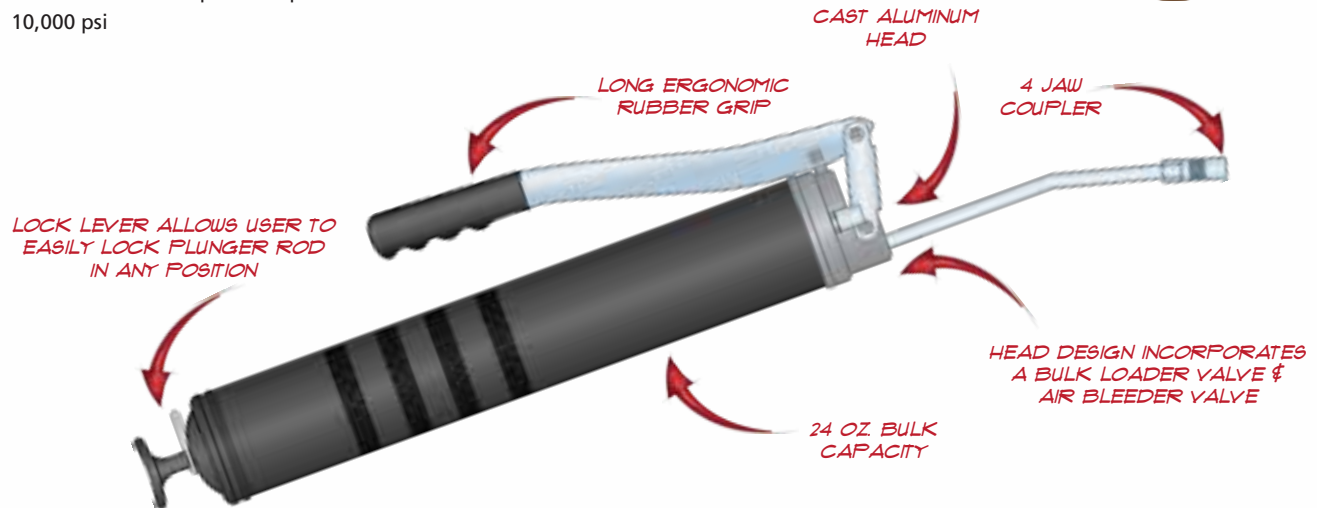
HIGH CAPACITY - LEVER GREASE GUN

10,000 PSI

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

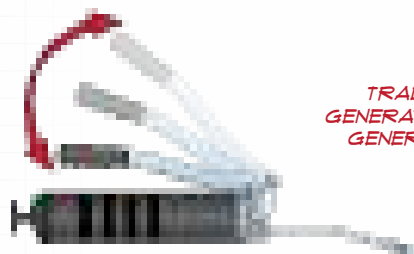


24 OZ.
 BULK
 CAPACITY



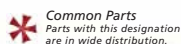
ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81125	LEVER - HIGH CAPACITY	14 OZ. (400 GMs)	24 OZ.	1 OZ. / 28 STROKES	1/8"-27 NPT	10,000 PSI	4.0 LBS.

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



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PROFESSIONAL - LEVER GREASE GUN

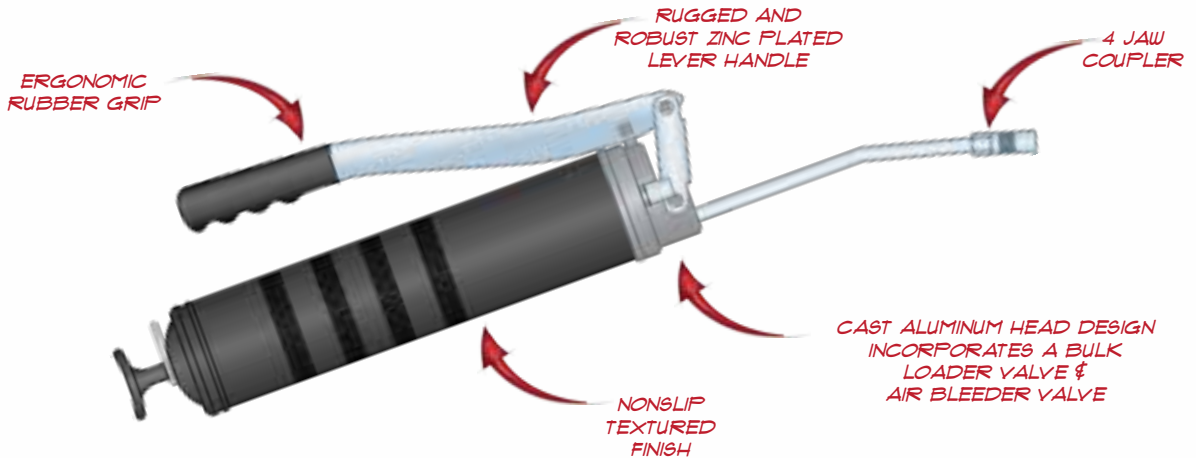
10,000 PSI

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

 PER
28
STROKES



10,000 PSI



14 OZ.
CARTRIDGE
CAPACITY


CARTRIDGE
LOAD

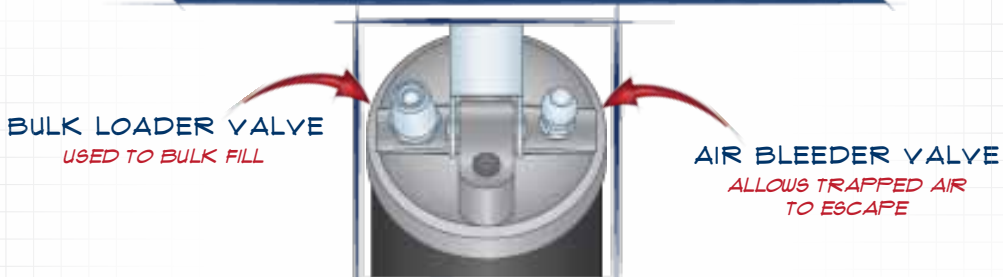

SUCTION
LOAD


BULK
LOAD



VARIABLE
STROKE

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81100 	LEVER - PROFESSIONAL	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 28 STROKES	1/8"-27 NPT	10,000 PSI	3.5 LBS.
H81025 	LEVER - EURO PRO	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 28 STROKES	M10 X 1.0	10,000 PSI	3.5 LBS.

HEAD DESIGN



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HIGH VOLUME - LEVER GREASE GUN

10,000 PSI

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



DELIVERS 1.5 TIMES MORE VOLUME PER STROKE THAN MOST GREASE GUNS

4 JAW COUPLER

CAST ALUMINUM GREASE GUN HEAD INCORPORATES A BULK LOADER VALVE

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

NONSLIP TEXTURED FINISH



10,000 PSI

14 OZ. CARTRIDGE CAPACITY

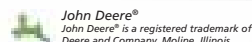


ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81550	LEVER - HIGH VOLUME	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 19 STROKES	1/8"-27 NPT	10,000 PSI	3.3 LBS.

DESIGN FEATURE



THE UNIQUE LOCK LEVER ALLOWS THE USER TO LOCK THE PLUNGER IN ANY POSITION



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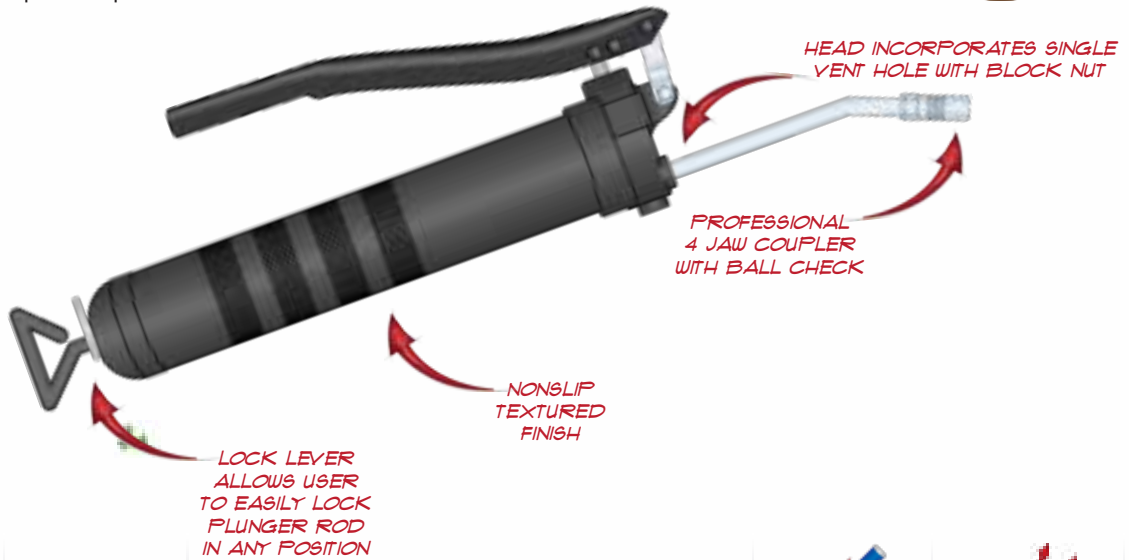
ECONOMY - LEVER GREASE GUN

6,000 PSI

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.

H81000

Lever Grease Gun - Economy
 14 oz. Cartridge Capacity
 1/8"-27 NPT with Pipe & Coupler
 6,000 psi



6,000 PSI

14 OZ.
 CARTRIDGE
 CAPACITY



ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81000 *	LEVER - ECONOMY	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 28 STROKES	1/8"-27 NPT	6,000 PSI	4.0 LBS.

CUSTOMERS ALSO BOUGHT...

COUPLERS

OUR COMPLETE LINE BEGINS ON PAGE 118



Common Parts
 Parts with this designation
 are in wide distribution.



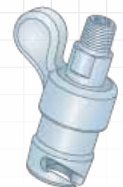
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ACCESSORIES

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.



USE GREASE SKINS™ TO SIMPLIFY ANY JOB

EXAMPLE:
RED: HIGH TEMPERATURE
YELLOW: STANDARD GRADE
BLUE: FOOD GRADE

COLOR MATCH TO CAPS!

ITEM #	COLOR
H88204	RED 

ITEM #	COLOR
H88206	YELLOW 

ITEM #	COLOR
H88207	BLUE 

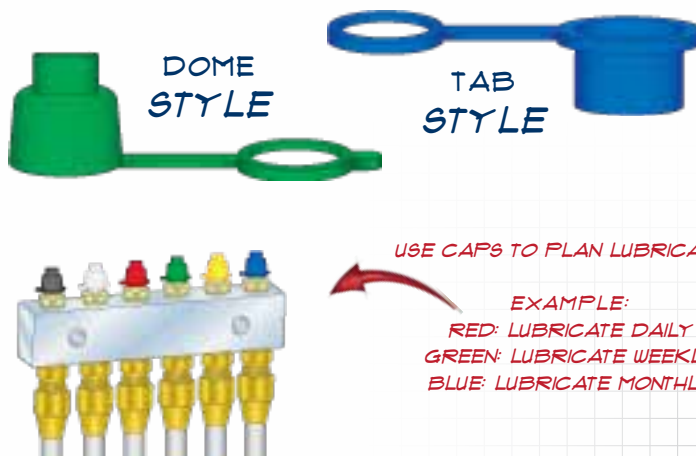
GREASE FITTING CAPS

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.











USE CAPS TO PLAN LUBRICATION

EXAMPLE:
RED: LUBRICATE DAILY
GREEN: LUBRICATE WEEKLY
BLUE: LUBRICATE MONTHLY

ITEM #	STYLE	COLOR
H88002		BLACK 
H88003		WHITE 
H88004		RED 

ITEM #	STYLE	COLOR
H88005		GREEN 
H88006		YELLOW 
H88007		BLUE 

ITEM #	STYLE	COLOR
H88102		BLACK 
H88103		WHITE 
H88104		RED 

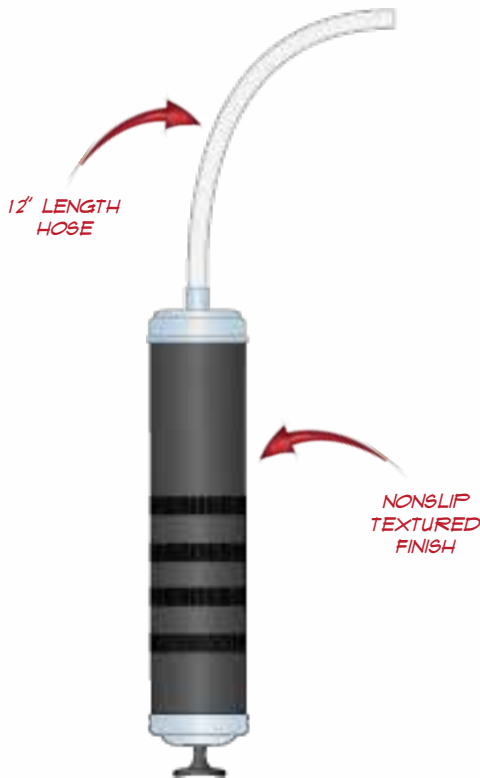
ITEM #	STYLE	COLOR
H88105		GREEN 
H88106		YELLOW 
H88107		BLUE 

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.

H81400

Suction Gun
12" Flexible Vinyl Hose



USE WITH NON-CORROSIVE LIQUIDS

H81405

Dual Direction Transfer Gun
4' Flexible Vinyl Hose (x2)



USE WITH NON-CORROSIVE LIQUIDS

ITEM #	SERIES	BULK CAPACITY	STROKE DELIVERY	HOSE LENGTH	HOSE MATERIAL	SHIP WEIGHT
H81400	SUCTION GUN	16 OZ.	16 OZ. / 1 STROKE	12" HOSE	FLEXIBLE VINYL	1.9 LBS.
H81405	TRANSFER SUCTION GUN	12 OZ.	12 OZ. / 1 STROKE	4' HOSE (x2)	FLEXIBLE VINYL	2.9 LBS.

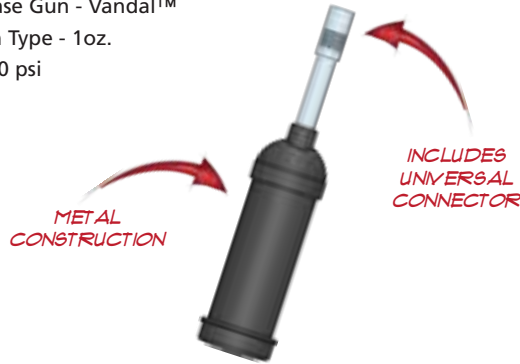


VANDAL™ - POCKET LUBER

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.

H81780-01

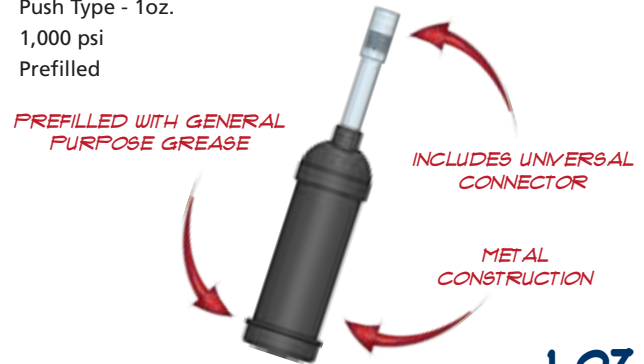
Grease Gun - Vandal™
Push Type - 1oz.
1,000 psi



1 OZ.
REFILLABLE

H81780G-01

Grease Gun - Vandal™
Push Type - 1oz.
1,000 psi
Prefilled



ALSO AVAILABLE IN
MARINE GRADE

1 OZ.
REFILLABLE

H81761-02

Grease Gun - Vandal™
Push Type - 2oz.
290 psi

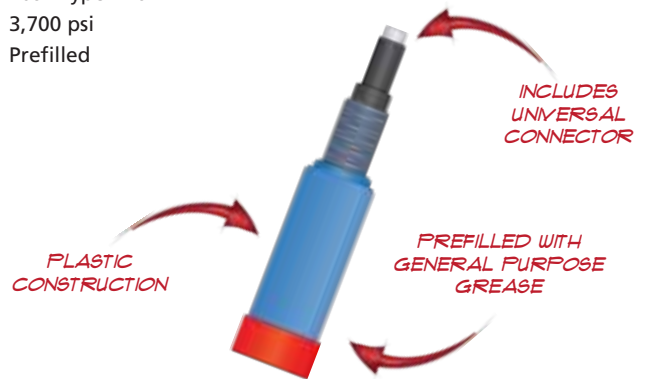


PLUG WITH CHAIN FOR
EASY REMOVAL AND FILL

2 OZ.
REFILLABLE

H81770G-02

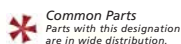
Grease Gun - Vandal™
Push Type - 2oz.
3,700 psi
Prefilled



ALSO AVAILABLE IN
MARINE GRADE

2 OZ.
REFILLABLE

ITEM #	GREASE GUN SERIES	GREASE INCLUDED	BULK CAPACITY	OVERALL LENGTH	MAXIMUM PRESSURE	SHIP WEIGHT
H81780-01 *	VANDAL™ - PUSH TYPE - 1 OZ.	NO GREASE	1 OZ.	6 1/2"	1,000 PSI	0.1 LBS.
H81780G-01	VANDAL™ - PUSH TYPE - 1 OZ.	GENERAL PURPOSE	1 OZ.	6 1/2"	1,000 PSI	0.8 LBS.
H81761-02 *	VANDAL™ - PUSH TYPE - 2 OZ.	NO GREASE	2 OZ.	6 1/2"	290 PSI	0.2 LBS.
H81770G-02	VANDAL™ - PUSH TYPE - 2 OZ.	GENERAL PURPOSE	2 OZ.	6 1/2"	3,700 PSI	0.3 LBS.



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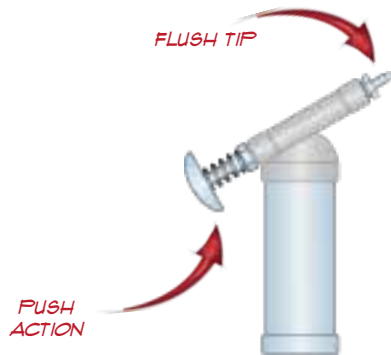
PUSH TYPE - GREASE GUN

3,000 PSI

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.

H81750

Grease Gun - Vacuum Prime Push Type
Flush Tip
1/8"-27 NPT
3,000 psi

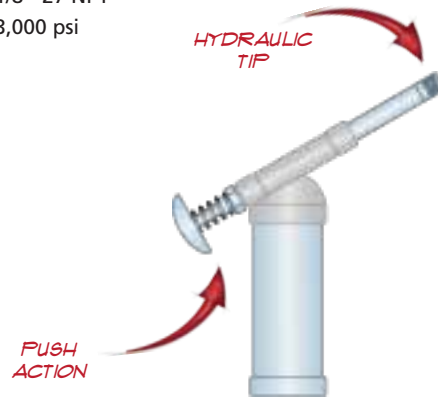


3 OZ.
REFILLABLE



H81751

Grease Gun - Vacuum Prime Push Type
Hydraulic Tip
1/8"-27 NPT
3,000 psi



3 OZ.
REFILLABLE

ITEM #	GREASE GUN SERIES	BULK CAPACITY	OVERALL HEIGHT	OVERALL WIDTH	MAXIMUM PRESSURE	SHIP WEIGHT
H81750 *	PUSH TYPE - FOR FLUSH TYPE FITTINGS	3 OZ.	4 3/4"	6"	3,000 PSI	0.6 LBS.
H81751	PUSH TYPE - FOR HYDRAULIC FITTINGS	3 OZ.	6 1/2"	1"	3,000 PSI	0.6 LBS.

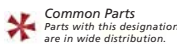
PLEASE NOTE

SPRING PRIMED PUSH TYPE

AVAILABLE AS A SPECIAL ORDER



WORKS LIKE A LEVER TYPE GUN



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DELUXE - PISTOL-GRIP GREASE GUN

5,000 PSI

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.

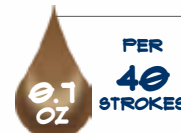
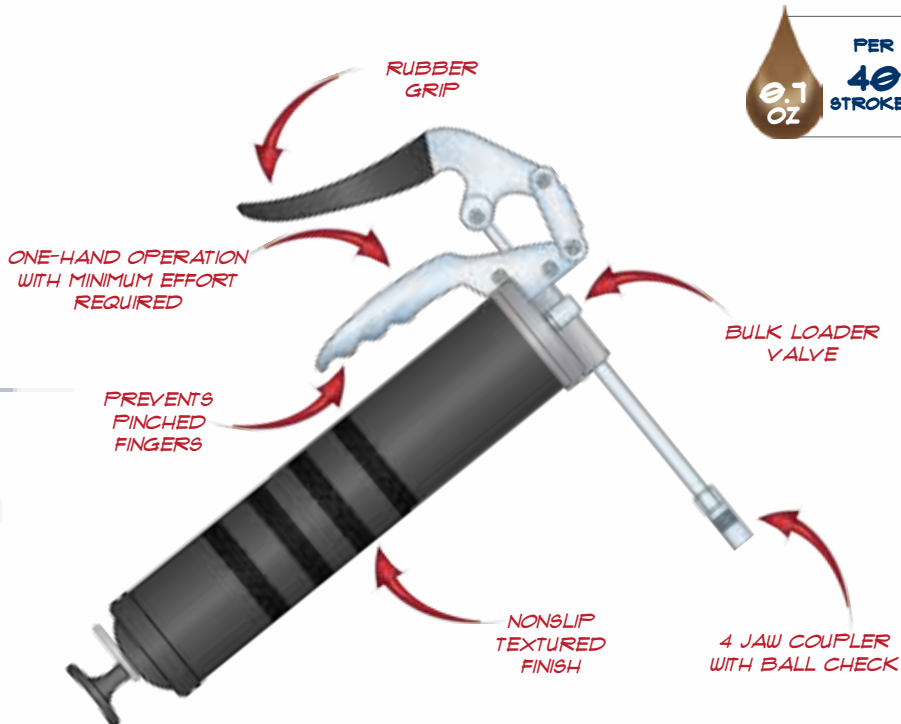
H81150

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)



5,000 PSI

14 OZ.
CARTRIDGE CAPACITY



ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81150 ✱	PISTOL GRIP - DELUXE	14 OZ. (400 GMS)	16 OZ.	0.1 OZ. / 40 STROKES	1/8"-27 NPT	5,000 PSI	3.1 LBS.
H81050	PISTOL GRIP - STANDARD	14 OZ. (400 GMS)	16 OZ.	0.1 OZ. / 40 STROKES	1/8"-27 NPT	5,000 PSI	3.1 LBS.

CUSTOMERS ALSO BOUGHT

GREASE GUN HOLDER
MOUNTS TO RIGID SURFACE
NEAR SERVICE LOCATION TO
IMPROVE EFFICIENCY



ORDER #:
H86250

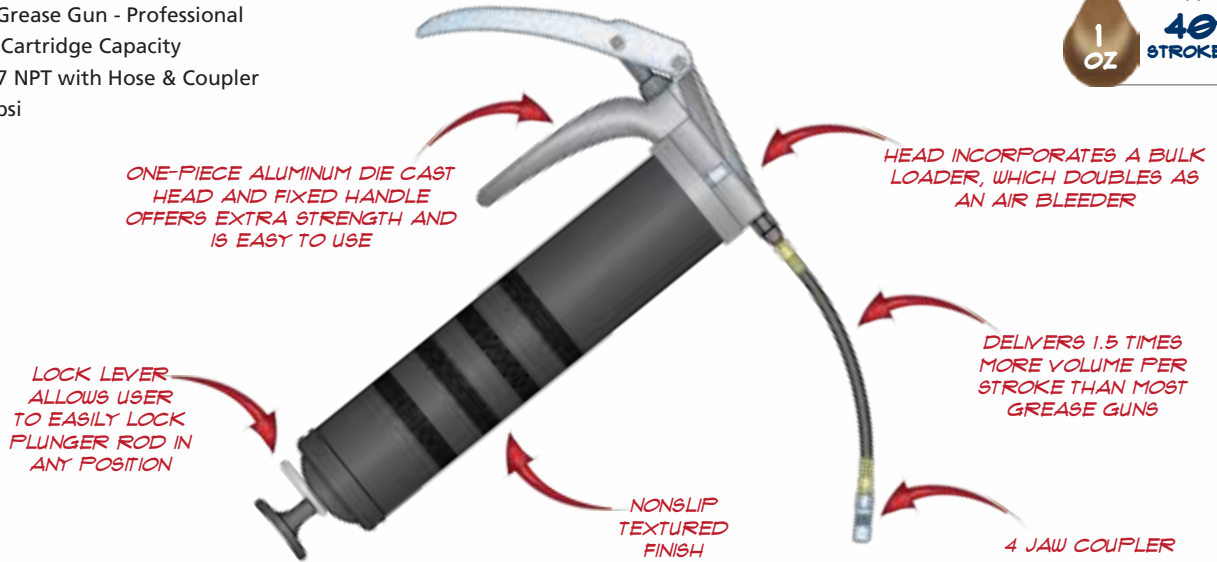
PROFESSIONAL - PISTOL-GRIP GREASE GUN

7,500 PSI

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



7,500 PSI

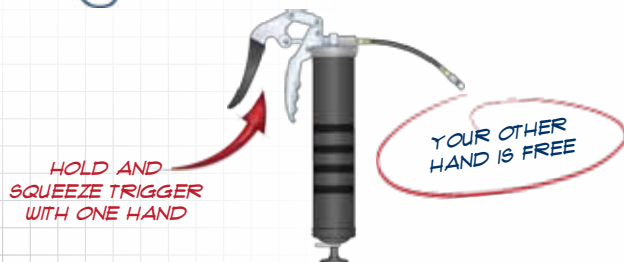
14 OZ.
 CARTRIDGE CAPACITY



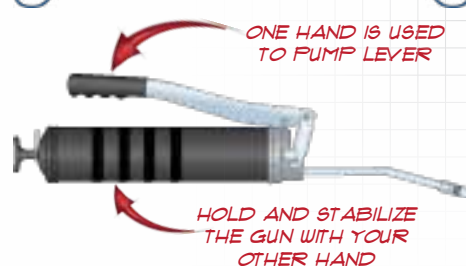
ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81145	PISTOL GRIP - PRO	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 40 STROKES	1/8"-27 NPT	7,500 PSI	3.9 LBS.

DESIGN FEATURE

ONE HAND OPERATION



TWO HAND OPERATION



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MINI - PISTOL-GRIP GREASE GUN

3,000 PSI

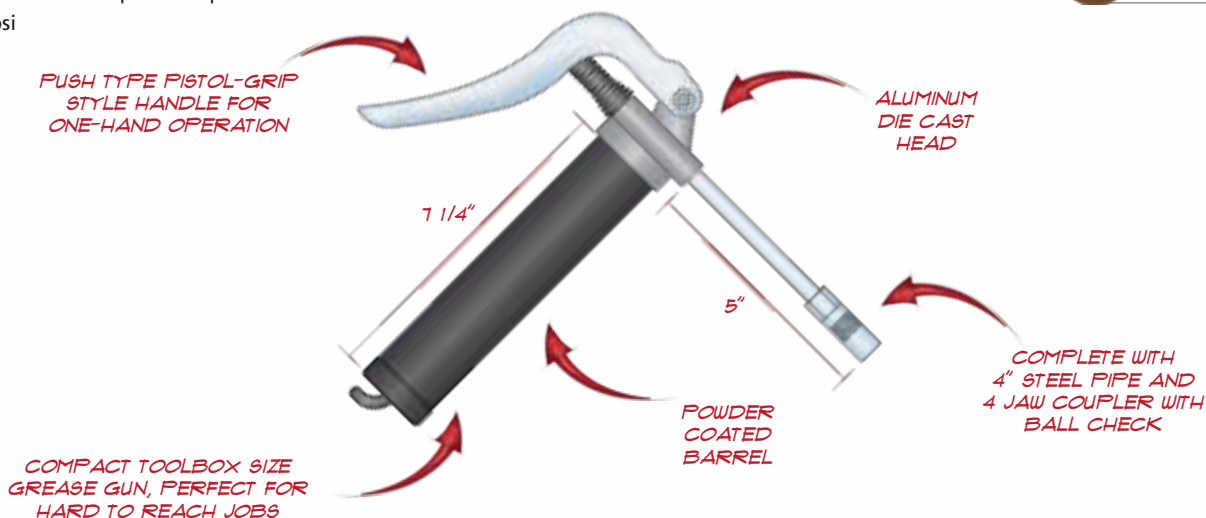
Our popular mini pistol grease gun is a compact toolbox size gun, ideal for those hard to reach jobs. The H81350 is a one-hand pistol grip grease gun with a push type operating mechanism. The head is made from aluminum die cast and the barrel has a textured powder coat finish for a nonslip grip.

H81350

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



PER
40
STROKES



3,000 PSI

3 OZ.
CARTRIDGE
CAPACITY



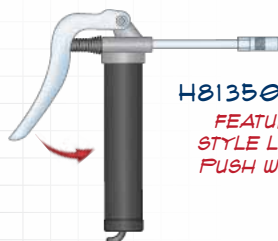
**GREAT FOR
TOOLBOXES**



**CARTRIDGE
LOAD**

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81350 ✖	MINI PISTOL GRIP	3 OZ. (85 GMS)	0.6 OZ. / 40 STROKES	1/8"-27 NPT	3,000 PSI	1.5 LBS.


DESIGN FEATURE



H81350 "STANDARD"
FEATURES A "PUSH"
STYLE LEVER THAT YOU
PUSH WITH YOUR PALM



H81300 "DELUXE"
FEATURES A FINGER
"PULL" STYLE LEVER

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REVISED 06-11

MINI DELUXE - PISTOL-GRIP GREASE GUN

3,500 PSI

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.

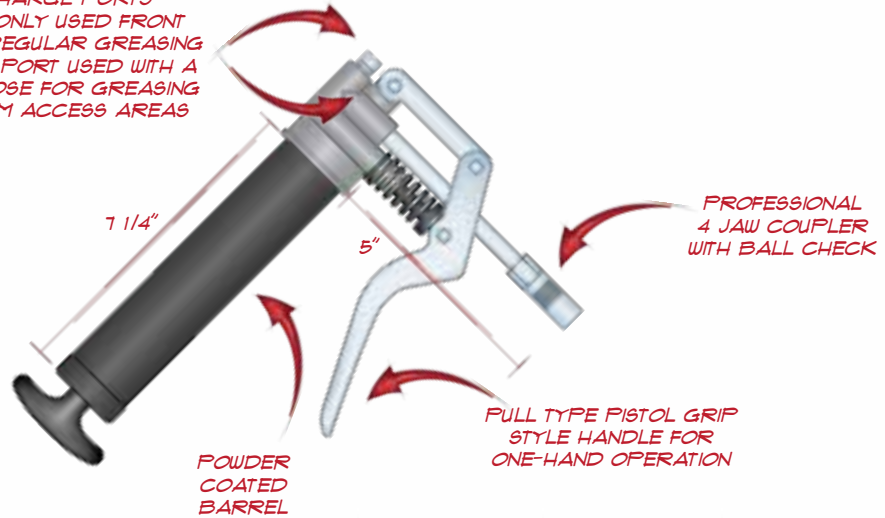
H81300

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



PER
40
 STROKES
 0.6
 OZ

*TWO DISCHARGE PORTS -
 THE COMMONLY USED FRONT
 PORT FOR REGULAR GREASING
 AND A TOP PORT USED WITH A
 FLEXIBLE HOSE FOR GREASING
 IN PROBLEM ACCESS AREAS*



3,500 PSI

3 OZ.
 CARTRIDGE
 CAPACITY



GREAT FOR
 TOOLBOXES



CARTRIDGE
 LOAD

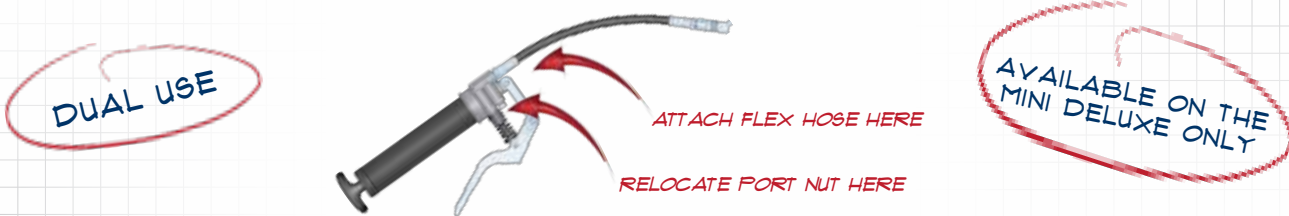


SUCTION
 LOAD

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81300 *	MINI PISTOL GRIP - DELUXE	3 OZ. (85 GMS)	4 OZ.	0.6 OZ. / 40 STROKES	1/8"-27 NPT	3,500 PSI	1.4 LBS.

FLEXIBLE HOSE USE

REQUIRES REPOSITIONING OF THE PORT NUT



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 are in wide distribution.



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CORDLESS - HIGH PRESSURE GREASE GUN

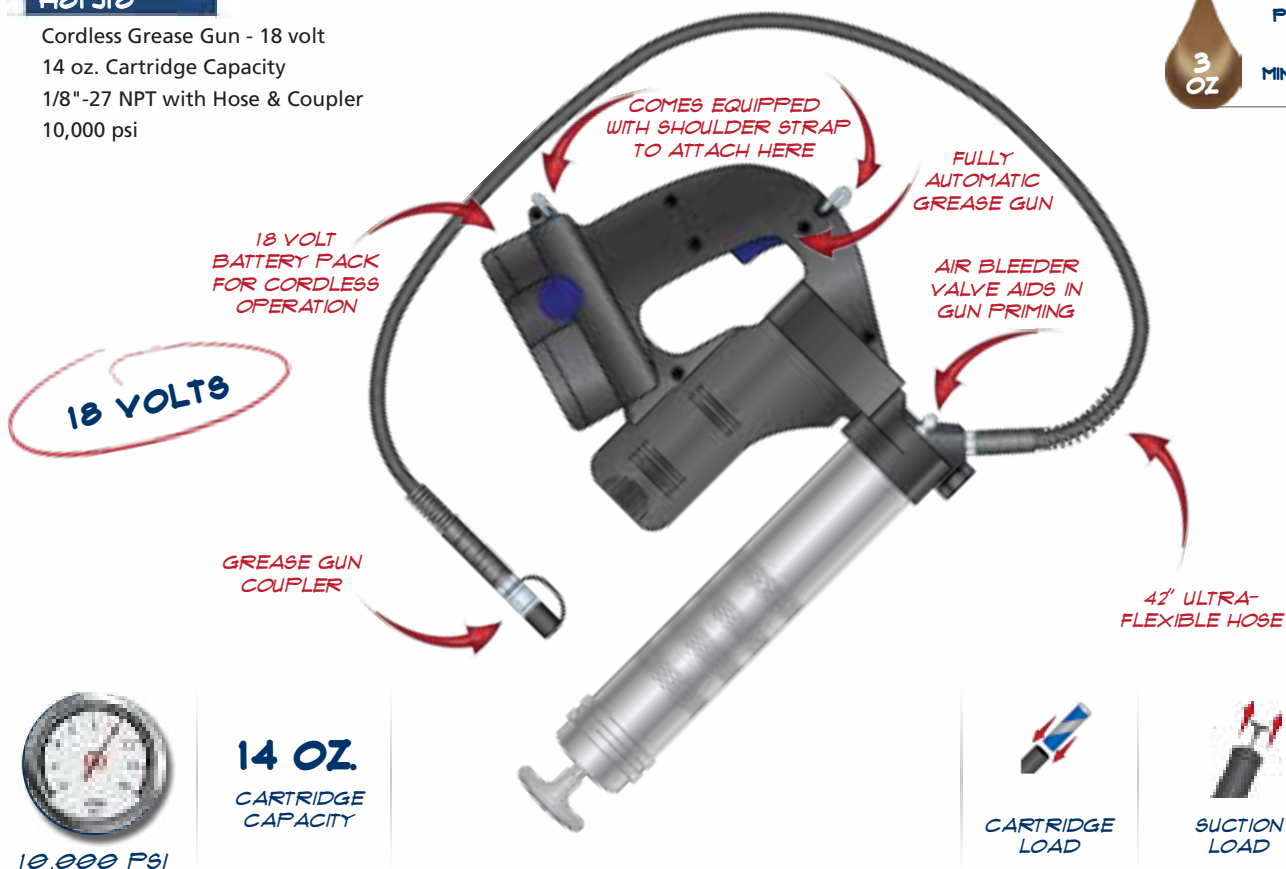
10,000 PSI

The H81918 18V cordless grease gun provides the portability of a standard hand operated gun while adding ease of operation in the field. The accompanying shoulder strap reduces fatigue and the spare battery and quick charger provide all day power and reliability. This gun comes with a shock-resistant carrying case.

H81918

Cordless Grease Gun - 18 volt
14 oz. Cartridge Capacity
1/8"-27 NPT with Hose & Coupler
10,000 psi

3 OZ PER 1 MINUTE



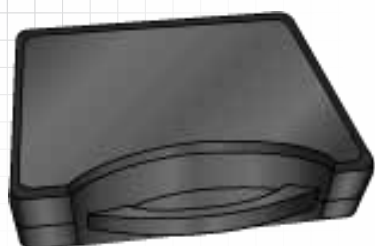
14 OZ. CARTRIDGE CAPACITY

10,000 PSI



ITEM #	GREASE GUN SERIES	VOLTS	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	MAXIMUM PRESSURE	SHIP WEIGHT
H81918 *	CORDLESS - HIGH PRESSURE	18 VOLT	14 OZ. (400 GMS)	14.5 OZ.	3 OZ. / MINUTE	10,000 PSI	17.1 LBS.

PRODUCT FEATURE



THE H81918 COMES WITH TWO 18 VOLT BATTERIES, A BATTERY CHARGER, STRAP AND CARRYING CASE



Common Parts
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CORDLESS - POPULAR GREASE GUN

8,500 PSI

Our powerful 19.2V grease gun saves time and money by combining speed and portability in the field. The ergonomically designed and balanced handle provides a comfortable grip and reduces fatigue, while the spare battery and charger provide extended service times. When not in use, all our cordless grease guns can be stored in their shock-resistant carrying case.

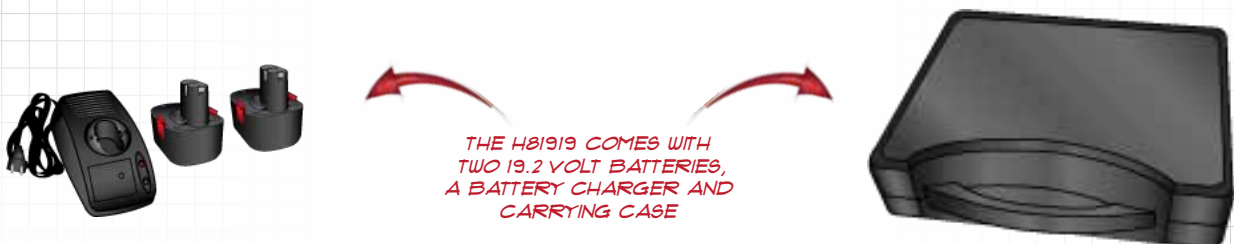
H81919

Cordless Grease Gun - 19.2 volt
14 oz. Cartridge Capacity
1/8"-27 NPT with Hose & Coupler
8,500 psi





ITEM #	GREASE GUN SERIES	VOLTS	CARTRIDGE CAPACITY	BULK CAPACITY	STROKE DELIVERY	MAXIMUM PRESSURE	SHIP WEIGHT
H81919	CORDLESS - POPULAR	19.2 VOLT	14 OZ. (400 GMs)	14.5 OZ.	3.5 OZ. / MINUTE	8,500 PSI	15.5 LBS.

PRODUCT FEATURE



THE H81919 COMES WITH TWO 19.2 VOLT BATTERIES, A BATTERY CHARGER AND CARRYING CASE

 Common Parts
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PNEUMATIC - STANDARD GREASE GUN

4,800 PSI

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 1cfm / 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.

H81250

Pneumatic Grease Gun - Continuous Flow
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
4,800 psi

CONTINUOUS FLOW

H81200

Pneumatic Grease Gun - Intermittent
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
4,800 psi

SINGLE SHOT

*AIR INLET THREADED 1/4" NPT
GUN COMES WITH A
MALE QUICK COUPLER FITTING*

*HEAVY-DUTY ALUMINUM
DIE CAST HEAD PRECISION
MACHINED TO ENSURE
RAPID TRIGGER*

*1.3 OZ
PER
40
CYCLES*

*BULK LOADER
VALVE*

*4 JAW
COUPLER*

*NONSLIP
TEXTURED
FINISH*



4,800 PSI

14 OZ.
CARTRIDGE
CAPACITY



CARTRIDGE
LOAD



SUCTION
LOAD



BULK
LOAD



USE WITH
AIR SUPPLY

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81250 *	PNEUMATIC - CONTINUOUS FLOW	14 OZ. (400 GMS)	16 OZ.	1.3 OZ. / 40 CYCLES	1/8"-21 NPT	4,800 PSI	4.1 LBS.
H81200	PNEUMATIC - INTERMITTENT	14 OZ. (400 GMS)	16 OZ.	1.3 OZ. / 40 CYCLES	1/8"-21 NPT	4,800 PSI	4.1 LBS.

DESIGN FEATURE

CONTINUOUS GREASE FLOW

*HOLDING TRIGGER PROVIDES
AUTOMATIC BURSTS OF GREASE*



INTERMITTENT GREASE FLOW

*PRESSING TRIGGER PROVIDES A
"SHOT" OF GREASE*



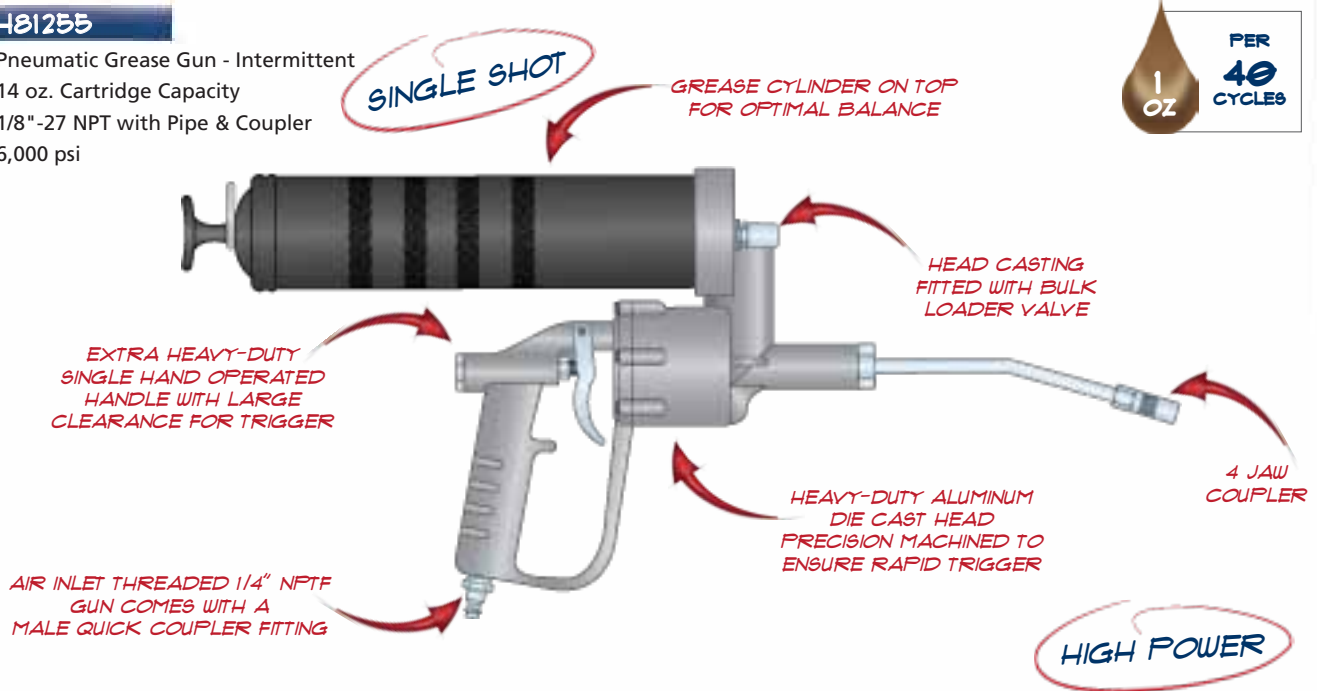
PNEUMATIC - HIGH POWER GREASE GUN

6,000 PSI

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 1cfm / 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



HIGH POWER



6,000 PSI

14 OZ.
CARTRIDGE
CAPACITY



CARTRIDGE
LOAD



SUCTION
LOAD



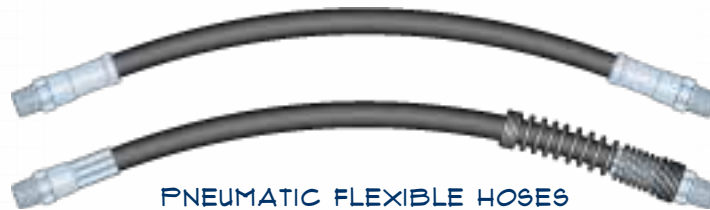
BULK
LOAD



USE WITH
AIR SUPPLY

ITEM #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAPACITY	DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
H81255 *	PNEUMATIC - HIGH POWER	14 OZ. (400 GMS)	16 OZ.	1 OZ. / 40 CYCLES	1/8"-27 NPT	6,000 PSI	5.1 LBS.

CUSTOMERS ALSO BOUGHT



PNEUMATIC FLEXIBLE HOSES

OUR COMPLETE LINE BEGINS ON
PAGE 116



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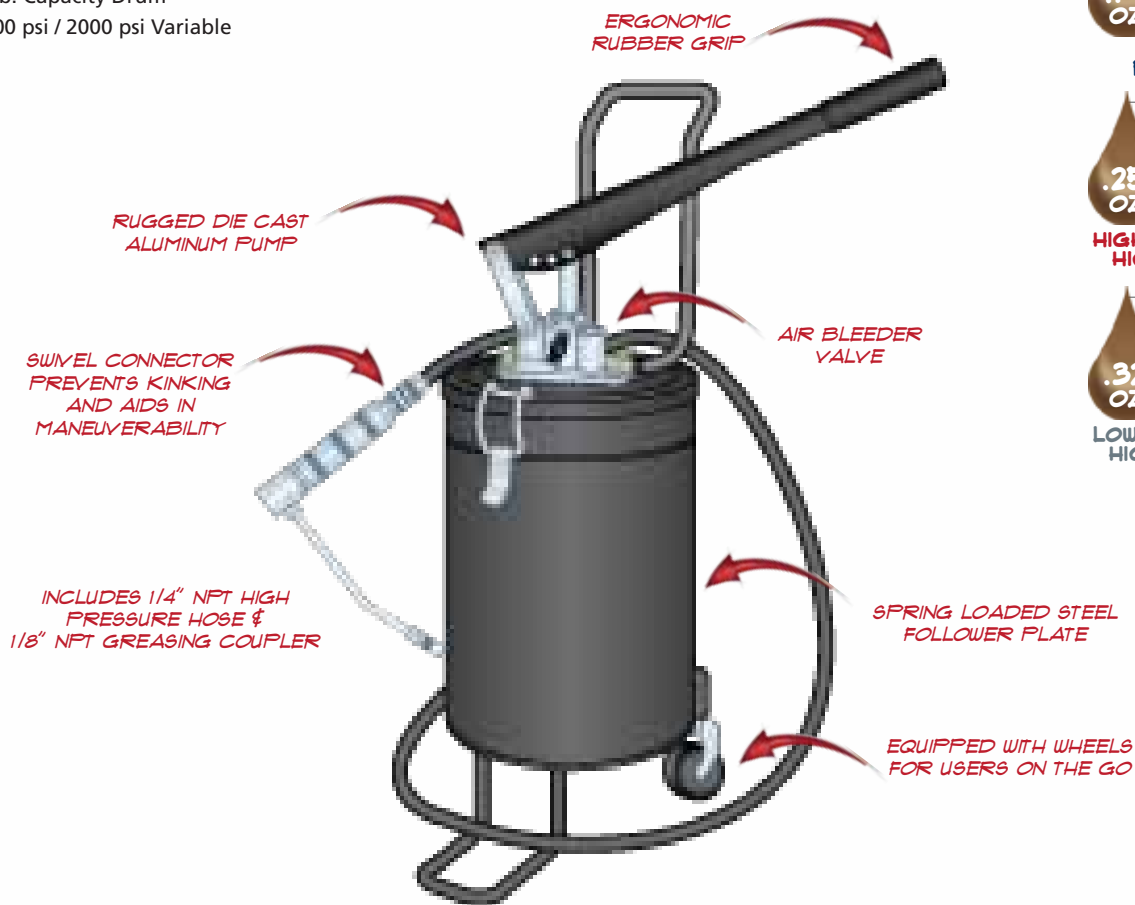
BUCKET - PORTABLE GREASE GUN

4,000 PSI

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.

H89400

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



.14 OZ PER 1 STROKE

HIGH PRESSURE

.25 OZ PER 1 STROKE

HIGH PRESSURE/ HIGH VOLUME

.32 OZ PER 1 STROKE

LOW PRESSURE/ HIGH VOLUME



2,000 PSI / 4,000 PSI


22 LB. CAPACITY

ADJUSTABLE HANDLE SETTING FOR 2,000 / 4,000 PSI OPERATION



VARIABLE STROKE

ITEM #	DESCRIPTION	DRUM SIZE	STROKE DELIVERY	WORKING PSI	PACKAGED WEIGHT
H89400	LEVER GREASE BUCKET PUMP - HIGH VOL	22 LB. CAPACITY	.14 OZ / STROKE & .25 OZ / STROKE .32 OZ / STROKE	4,000 PSI / 2,000 PSI VARIABLE	17.6 LBS.

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16 GAL. DRUM - BULK GREASE GUN

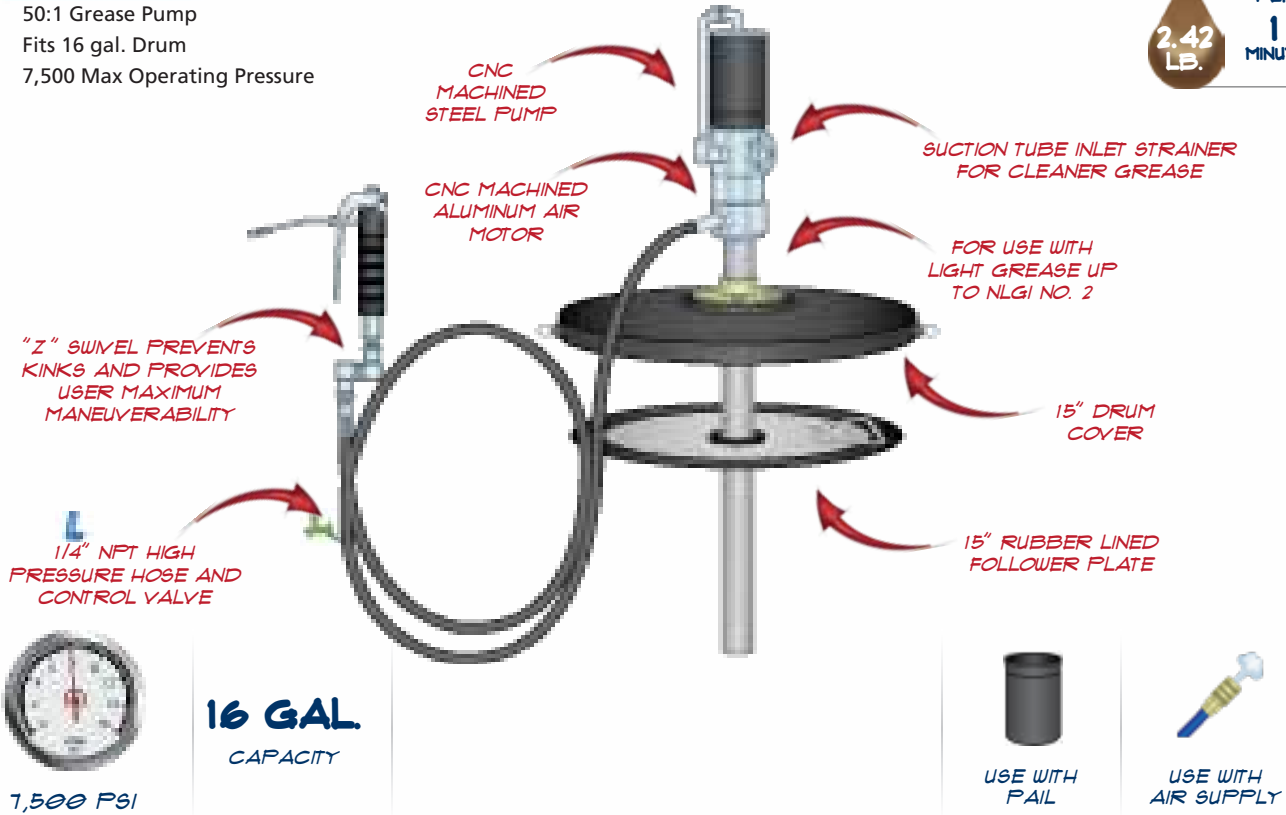
7,500 PSI

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

 2.42 LB.
PER 1 MINUTE



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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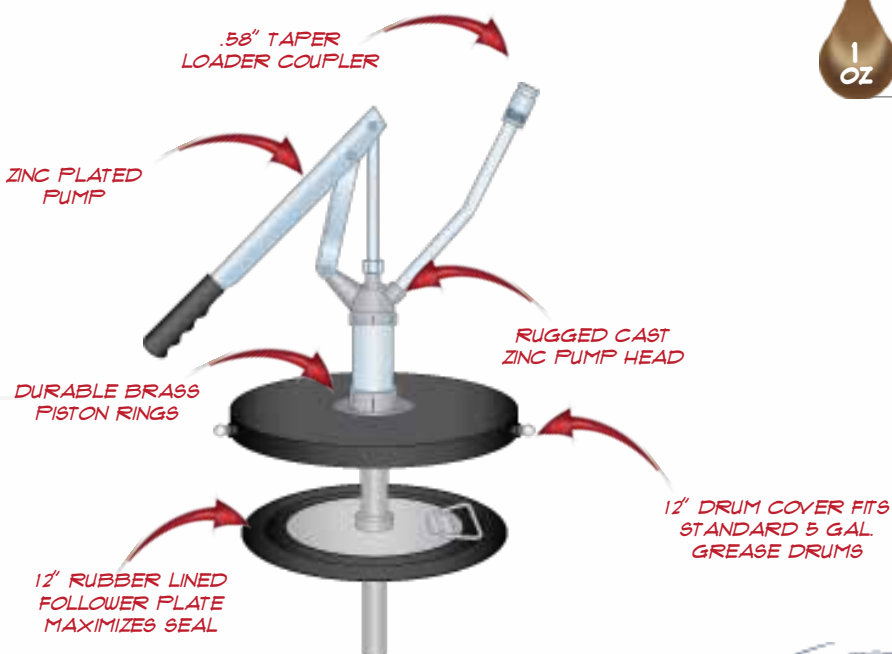
GREASE PUMP - BULK GREASE GUN

FOR BULK LOAD GREASE GUN

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.

H89300

Grease Bulk Filler Pump
Fits 5 gal. Pail
60 - 145 psi



SPECIAL ORDER

Follower Plates - many sizes available



PAIL NOT INCLUDED

ITEM #	DESCRIPTION	INLET THREAD	DRUM SIZE	DRUM COVER SIZE	FOLLOWER PLATE DIAMETER	PACKAGED WEIGHT
H89300	GREASE BULK FILLER PUMP	□	FITS 5 GALLON	12"	□	1.1 LBS.
SPECIAL ORDER	FOLLOWER PLATE	□	□	□	12"	□

EQUIPPED FOR BULK LOAD

H81600
Pg. 95



H81100
Pg. 97



H81550
Pg. 98



H81255
Pg. 111



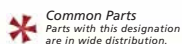
H81125
Pg. 96



H81025
Pg. 97



H81150
Pg. 104



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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.

H86150

Bulk Loader Coupler
3/8"-18 NPT
.48" Straight



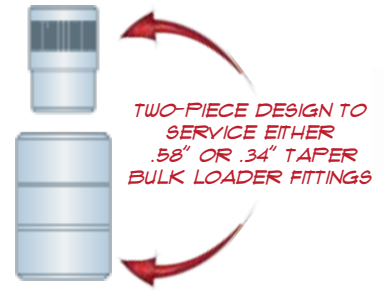
H86160

Bulk Loader Coupler
1/4"-18 NPT
.58" Taper



H86170

Bulk Loader Coupler
1/4"-18 NPT
.58" Taper & .34" Straight



H86000

Bulk Loader Fitting
1/8"-27 NPT
.48" Straight



H86020

Bulk Loader Fitting
1/8"-27 NPT
.58" Taper



H86040

Bulk Loader Fitting
1/8"-27 NPT
.34" Straight

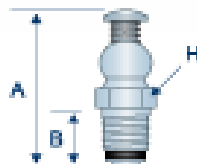


ITEM #	DESCRIPTION	THREAD	OVERALL LENGTH	DIAMETER
H86150	BULK LOADER COUPLER	3/8"-18 NPT	2 9/16"	.48" STRAIGHT
H86160	BULK LOADER COUPLER	1/4"-18 NPT	1 3/8"	.58" TAPER
H86170	BULK LOADER COUPLER	1/4"-18 NPT	2"	.58" TAPER & .34" STRAIGHT
H86000	BULK LOADER FITTING	1/8"-27 NPT	1 1/4"	.48" STRAIGHT
H86020	BULK LOADER FITTING	1/8"-27 NPT	1 13/64"	.58" TAPER
H86040	BULK LOADER FITTING	1/8"-27 NPT	1 1/4"	.34" STRAIGHT

AIR BLEEDER VALVE

H86200

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

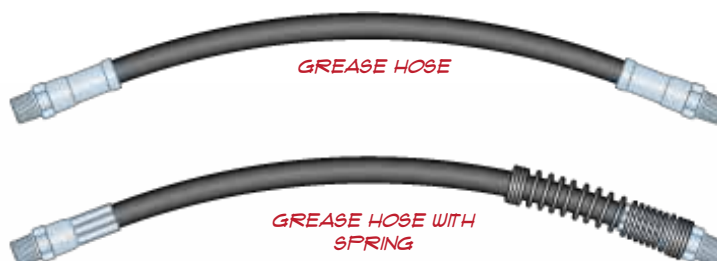
STANDARD HOSES

3,000 PSI

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



 FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BURST PRESSURE
H82008	GREASE HOSE ASSEMBLY - STANDARD	8"	HAND	1/8"-27 NPTF	3,000 PSI	11,600 PSI
H82012 *	GREASE HOSE ASSEMBLY - STANDARD	12"	HAND	1/8"-27 NPTF	3,000 PSI	11,600 PSI
H82018	GREASE HOSE ASSEMBLY - STANDARD	18"	HAND	1/8"-27 NPTF	3,000 PSI	11,600 PSI
H82052	GREASE HOSE ASSEMBLY - STANDARD	12"	HAND	M10 x 1.0	3,000 PSI	11,600 PSI
H82012P	GREASE HOSE ASSEMBLY - STANDARD WITH SPRING	12"	HAND	1/8"-27 NPTF	3,000 PSI	11,600 PSI
H82018P	GREASE HOSE ASSEMBLY - STANDARD WITH SPRING	18"	HAND	1/8"-27 NPTF	3,000 PSI	11,600 PSI
H82052P	GREASE HOSE ASSEMBLY - STANDARD WITH SPRING	12"	HAND	M10 x 1.0	3,000 PSI	11,600 PSI

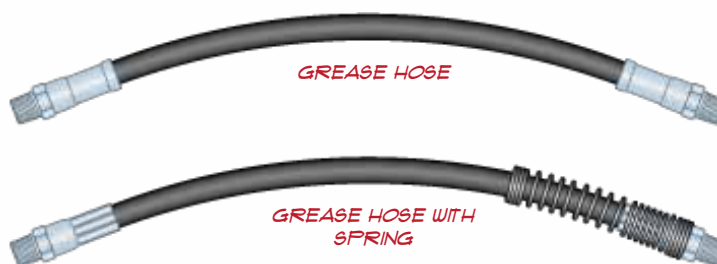
HEAVY DUTY HOSES

5,800 PSI


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



 FOR AIR / BATTERY EQUIP.

ITEM #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD (X)	THREAD (Y)	WORKING PRESSURE	BURST PRESSURE
H82512 *	FLEXIBLE HOSE - HEAVY DUTY	12"	AIR / BATTERY	1/8"-27 NPTF	1/8"-27 NPTF	5,800 PSI	13,115 PSI
H82518	FLEXIBLE HOSE - HEAVY DUTY	18"	AIR / BATTERY	1/8"-27 NPTF	1/8"-27 NPTF	5,800 PSI	13,115 PSI
H82552	FLEXIBLE HOSE - HEAVY DUTY	12"	AIR / BATTERY	M10 x 1.0	M10 x 1.0	5,800 PSI	13,115 PSI
H82512P	FLEXIBLE HOSE - HEAVY DUTY WITH SPRING	12"	AIR / BATTERY	1/8"-27 NPTF	1/8"-27 NPTF	5,800 PSI	13,115 PSI
H82518P	FLEXIBLE HOSE - HEAVY DUTY WITH SPRING	18"	AIR / BATTERY	1/8"-27 NPTF	1/8"-27 NPTF	5,800 PSI	13,115 PSI
H82552P	FLEXIBLE HOSE - HEAVY DUTY WITH SPRING	12"	AIR / BATTERY	M10 x 1.0	M10 x 1.0	5,800 PSI	13,115 PSI
H82520 	FLEXIBLE HOSE - SUPER DUTY FOR H81650	18"	HAND	1/4"-18 NPTF	1/4"-18 NPTF	10,000 PSI	23,000 PSI

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RIGID EXTENSIONS

6,000 PSI

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



STRAIGHT EXTENSION



ANGLE EXTENSION

 FOR AIR / BATTERY EQUIP.

ITEM #	DESCRIPTION	LENGTH	ANGLE	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
H85504	RIGID PIPE EXTENSION - HEAVY DUTY	4"	STRAIGHT	AIR / BATTERY	1/8"-27 NPTF	6,000 PSI
H85505	RIGID PIPE EXTENSION - HEAVY DUTY	6"	ANGLE	AIR / BATTERY	1/8"-27 NPTF	6,000 PSI
H85510	RIGID PIPE EXTENSION - HEAVY DUTY	10"	ANGLE	AIR / BATTERY	1/8"-27 NPTF	6,000 PSI
H85521	RIGID PIPE EXTENSION - HEAVY DUTY	21"	ANGLE	AIR / BATTERY	1/8"-27 NPTF	6,000 PSI
H85545	RIGID PIPE EXTENSION - HEAVY DUTY	6"	ANGLE	AIR / BATTERY	M10 x 1.0	6,000 PSI

FLEXI-PIPE™

5,000 PSI

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



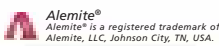
→ → → SLIDE SLEEVE FORWARD → FLEX POSITION



RIGID POSITION

 FOR AIR / BATTERY EQUIP.

ITEM #	DESCRIPTION	LENGTH	ANGLE	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
H85506	FLEXI-PIPE™	13"	□	AIR / BATTERY	1/8"-27 NPTF	5,000 PSI



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COUPLERS

CONVENTIONAL

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.

H84000

Hydraulic Coupler - Narrow
1/8" -27 NPT
3,000 psi



3,000 PSI
Ⓢ 4 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT



H84030

Hydraulic Coupler - Narrow
1/8" -27 NPT
6,000 psi



6,000 PSI
Ⓢ 4 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84075

Hydraulic Coupler - Narrow
1/8" -27 NPT
7,500 psi



7,500 PSI
Ⓢ 3 JAW CONSTRUCTION
⚡ FOR AIR/BATTERY EQUIP.

H84050

Hydraulic Coupler - Standard
1/8" -27 NPT
10,000 psi



10,000 PSI
Ⓢ 4 JAW CONSTRUCTION
⚡ FOR AIR/BATTERY EQUIP.



H84025

Metric Hydraulic Coupler - Narrow
M10 x 1
5,000 psi



5,000 PSI
Ⓢ 4 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT
⊘ NO BALL CHECK

COUPLER JAWS



3 JAW
STANDARD DESIGN




4 JAW
FOR MAXIMUM
GRIP

ITEM #	DESCRIPTION	JAWS	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BALL CHECK
H84000 *	HYDRAULIC COUPLER - NARROW	4 JAW	HAND	1/8"-27 NPT	3,000 PSI	YES
H84030	HYDRAULIC COUPLER - NARROW	4 JAW	HAND	1/8"-27 NPT	6,000 PSI	YES
H84075	HYDRAULIC COUPLER - NARROW	3 JAW	AIR / BATTERY	1/8"-27 NPT	7,500 PSI	YES
H84050 *	HYDRAULIC COUPLER - STANDARD	4 JAW	AIR / BATTERY	1/8"-27 NPT	10,000 PSI	YES
H84025	HYDRAULIC COUPLER - NARROW	4 JAW	HAND	M10 x 1.0	5,000 PSI	NO

 Common Parts
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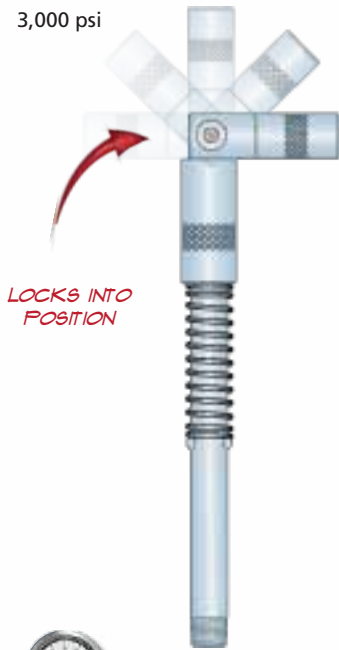
COUPLERS

SPECIAL USE

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.

H84100

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



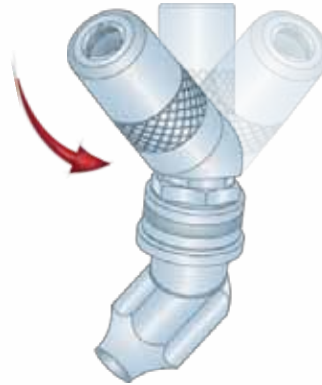
3,000 PSI

⊙ 3 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84150

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

LOCKS INTO POSITION



7,000 PSI

⊙ 3 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84001

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

PUSH STYLE



USE FOR LOW CLEARANCE APPLICATIONS



1,000 PSI

⚡ FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	JAWS	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BALL CHECK
H84100	HYDRAULIC COUPLER - 180° SWIVEL	3 JAW	HAND	1/8"-27 NPT	3,000 PSI	YES
H84150	HYDRAULIC COUPLER - 360° SWIVEL	3 JAW	HAND	1/8"-27 NPT	7,000 PSI	YES
H84001	HYDRAULIC COUPLER - 90° PUSH-ON	POLYURETHANE	HAND	1/8"-27 NPT	1,000 PSI	NO

DESIGN FEATURE

UNS THREADS



H85000

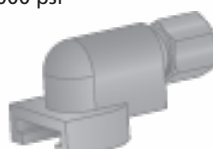

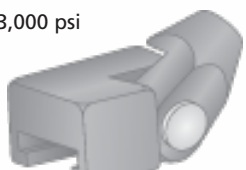













THE H84400, H84460 AND H84450 BUTTON HEAD COUPLERS POSSESS UNS THREADS AND REQUIRE A THREAD ADAPTER SHOWN HERE.

SEE NEXT PAGE

COUPLERS

BUTTON HEAD

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.

<p>H84420 Button Head Coupler Push-on 1/8"-27 NPTF 3,000 psi</p>   <p>3,000 Psi FOR HAND EQUIPMENT</p>	<p>H84415 Button Head Coupler - Swivel Push-on 1/8"-27 NPTF 3,000 psi</p>   <p>3,000 Psi FOR HAND EQUIPMENT</p>	<p>H84425 ✖ Button Head Coupler Pull-on 1/8"-27 NPTF 6,000 psi</p>   <p>6,000 Psi FOR AIR / BATTERY EQUIP.</p>	<p>H84440 Button Head Coupler Pull-on M10 x 1.0 6,000 psi</p>   <p>6,000 Psi FOR AIR / BATTERY EQUIP.</p>
<p>H84400 Button Head Coupler Pull-on 7/16"-27 UNS 10,000 psi</p>   <p>10,000 Psi FOR AIR / BATTERY EQUIP.</p>	<p>H84460 Hvy. Duty Button Head Coupler Push-on / Pull-on 7/16"-27 UNS 10,000 psi</p>   <p>10,000 Psi FOR AIR / BATTERY EQUIP.</p>	<p>H84450 Hvy. Duty Button Head Coupler Pull-on 7/16"-27 UNS 10,000 psi</p>   <p>10,000 Psi FOR AIR / BATTERY EQUIP.</p>	<p>H84475 ✖ Hvy. Duty Button Head Coupler Pull-on 1/8"-27" NPTF 7,500 psi</p>   <p>7,500 Psi FOR AIR / BATTERY EQUIP.</p>

ITEM #	DESCRIPTION	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
H84420	COUPLER - BUTTON HEAD PUSH-ON	HAND	1/8"-21 NPTF	3,000 PSI
H84415	COUPLER - BUTTON HEAD PUSH-ON	HAND	1/8"-21 NPTF	3,000 PSI
H84425 ✖	COUPLER - BUTTON HEAD PULL-ON	AIR / BATTERY	1/8"-21 NPTF	6,000 PSI
H84440	COUPLER - BUTTON HEAD PULL-ON	AIR / BATTERY	M10 x 1.0	6,000 PSI
H84400	COUPLER - BUTTON HEAD PULL-ON	AIR / BATTERY	7/16"-21 UNS	10,000 PSI
H84460	COUPLER - HEAVY DUTY BUTTON HEAD PUSH-ON/PULL-ON	AIR / BATTERY	7/16"-21 UNS	10,000 PSI
H84450	COUPLER - HEAVY DUTY BUTTON HEAD PULL-ON	AIR / BATTERY	7/16"-21 UNS	10,000 PSI
H84475 ✖	COUPLER - HEAVY DUTY BUTTON HEAD PULL-ON	AIR / BATTERY	1/8"-21 NPTF	7,500 PSI

SEE PREVIOUS PAGE 

H84400, H84460 & H84450 BUTTON HEAD COUPLERS POSSESS UNS THREADS AND REQUIRE A THREAD ADAPTER

UNS 

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COUPLERS

PIN TYPE

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



3,000 PSI

 FOR HAND EQUIPMENT

H84325

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

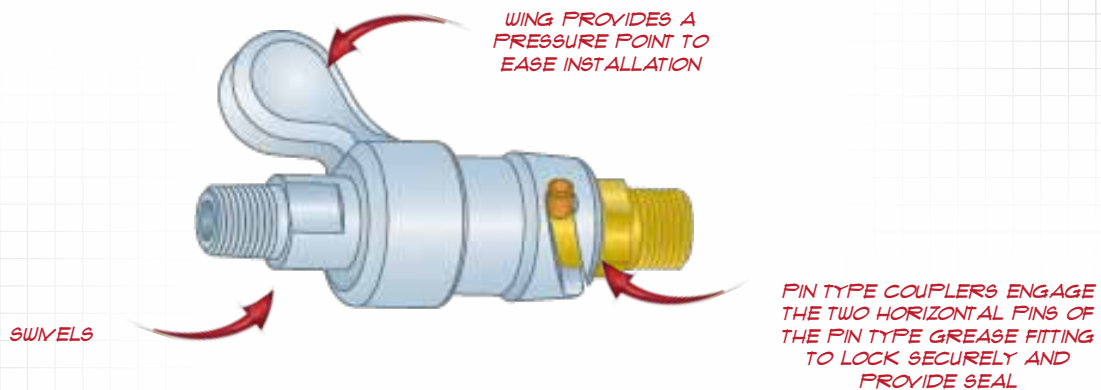


5,000 PSI

 FOR HAND EQUIPMENT

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

DESIGN FEATURE



NEEDLE NOZZLE

FEMALE

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.

H85102

Needle Nozzle
1/8"-27 NPTF
19/32" Needle



H85107

SHROUD



USE WITH H85102

 FOR HAND EQUIPMENT

H85160

Rubber Tip Nozzle
1/8"-27 NPTF
1 13/32" Needle



H85161



REPLACEMENT TIP

 FOR HAND EQUIPMENT

H85106

Needle Nozzle
1/8"-27 NPTF
6" Needle



 FOR HAND EQUIPMENT

H85104

Needle Nozzle
1/8"-27 NPTF
1 3/8" Needle



 FOR HAND EQUIPMENT

H85100

Needle Nozzle
1/8"-27 NPTF
1 1/2" Needle



 FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	NEEDLE LENGTH	EQUIPMENT TYPE	THREAD	PIPE DIAMETER	TIP DIAMETER
H85102	NEEDLE NOZZLE -FEMALE	19/32"	HAND	1/8"-27 NPTF	.181"	.046"
H85107	NEEDLE NOZZLE SHROUD	□	HAND	1/8"-27 NPTF	□	□
H85160	RUBBER TIP NOZZLE -FEMALE	1 13/32"	HAND	1/8"-27 NPTF	□	□
H85161	REPLACEMENT RUBBER TIP	5/8"	HAND	□	□	□
H85106	NEEDLE NOZZLE -FEMALE	6"	HAND	1/8"-27 NPTF	.156"	.059"
H85104	NEEDLE NOZZLE -FEMALE	1 3/8"	HAND	1/8"-27 NPTF	.156"	.046"
H85100 *	NEEDLE NOZZLE -FEMALE	1 1/2"	HAND	1/8"-27 NPTF	.156"	.046"

NEEDLE NOZZLE

MALE

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.

H85105

Needle Nozzle
1/8"-27 NPTF
13/16" Needle



FOR HAND EQUIPMENT

H85110

Needle Nozzle
1/8"-27 NPTF
2 1/4" Needle



FOR HAND EQUIPMENT

H85115

Needle Nozzle
1/8"-27 NPTF
4 1/2" Needle



FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	NEEDLE LENGTH	EQUIPMENT TYPE	THREADS	PIPE DIAMETER	TIP DIAMETER
H85105	NEEDLE NOZZLE - MALE	13/16"	HAND	1/8"-27 NPTF	.188"	.031"
H85110	NEEDLE NOZZLE - MALE	2 1/4"	HAND	1/8"-27 NPTF	.188"	.031"
H85115	NEEDLE NOZZLE - MALE	4 1/2"	HAND	1/8"-27 NPTF	.188"	.031"

COUPLERS

FLUSH TYPE

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.

H84200

Flush Type Coupler
1/8"-27 NPTF



FOR HAND EQUIPMENT

H84205

Flush Type Coupler - Midget for H1877
1/8"-27 NPTF



FOR HAND EQUIPMENT

H84225

Flush Type Coupler
M10 x 1



FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	THREAD	OVERALL LENGTH	EQUIPMENT TYPE	TIP DIAMETER
H84200	COUPLER - FLUSH TYPE FEMALE	1/8"-27 NPTF	1 1/4"	HAND	7/32"
H84205	COUPLER - FLUSH TYPE FEMALE FOR H1877	1/8"-27 NPTF	1"	HAND	0.08"
H84225 *	COUPLER - FLUSH TYPE FEMALE	M10 x 1.0	18 MM	HAND	5.5 MM

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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-H89995

Farm Greasing Accessory Kit
Quick Connect
Standard



A B C D E

ORGANIZED IN A ROLL UP VINYL SLEEVE

DISP-H89990

EZEET™ Lubrication Kit
Quick Connect
Deluxe



F A G H I D J

ORGANIZED IN A ROLL UP VINYL SLEEVE

ITEM #	PAGE NUMBER	DIAGRAM	QUICK CONNECT COUPLER	EQUIPMENT TYPE	ANGLE	TIP
H84090	126	A	90° ANGLE	HAND	90°	HYDRAULIC
H85130	125	B	3" NEEDLE NOZZLE	HAND	STRAIGHT	NEEDLE NOZZLE
H84480	126	C	PUSH-ON BUTTON HEAD	HAND	90°	BUTTON HEAD
H84085	125	D	HYDRAULIC WHIP HOSE	HAND	□	HYDRAULIC
H84080	125	E	HYDRAULIC RIGID EXTENSION	HAND	15°	HYDRAULIC
H85200	127	F	INJECTOR NEEDLE	HAND	STRAIGHT	INJECTOR NEEDLE
H84600	125	G	PUSH TYPE	HAND	STRAIGHT	PUSH TYPE
H84625	126	H	90° PUSH TYPE	HAND	90°	PUSH TYPE
H85145	127	I	5" NEEDLE NOZZLE	HAND	STRAIGHT	NEEDLE NOZZLE
H85165	127	J	RUBBER TIP NEEDLE NOZZLE	HAND	STRAIGHT	RUBBER TIP

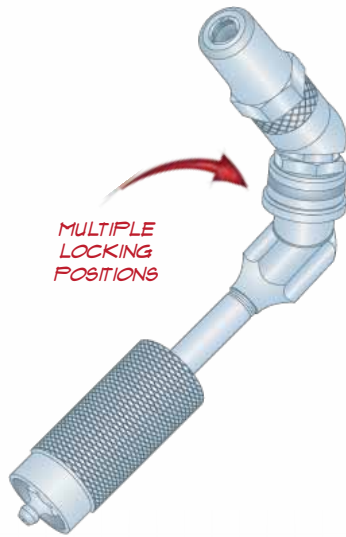
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QUICK CONNECT

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.

H84155

Quick Connect Coupler
Hydraulic Tip
360° Swivel



MULTIPLE
LOCKING
POSITIONS

⊙ 3 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84085

Quick Connect Coupler
Hydraulic Tip
11.5" Whip Hose



⊙ 4 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84080

Quick Connect Coupler
Hydraulic Tip
7" Rigid Extension



⊙ 4 JAW CONSTRUCTION
⚡ FOR HAND EQUIPMENT

H84600

Quick Connect Coupler
Push Type
Straight



⚡ FOR HAND EQUIPMENT

H85130

Quick Connect Coupler
Needle Nozzle Tip
19/32" Needle



⚡ FOR HAND EQUIPMENT

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

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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.

H84095

Quick Connect Coupler
Hydraulic Tip
90° Angle



© 3 JAW CONSTRUCTION
FOR HAND EQUIPMENT

H84625

Quick Connect Coupler
Push Type Tip
90° Angle



FOR HAND EQUIPMENT

H84090

Quick Connect Coupler
Hydraulic Tip
90° Angle



FOR HAND EQUIPMENT

H84480

Quick Connect Coupler
Button Head Tip
Push-on



FOR HAND EQUIPMENT

ITEM #	DESCRIPTION	EQUIPMENT TYPE	ANGLE	TIP
H84095	QUICK CONNECT COUPLER - 90° HYDRAULIC	HAND	90°	3 JAW HYDRAULIC
H84625	QUICK CONNECT COUPLER - 90° PUSH TYPE	HAND	90°	PUSH TYPE
H84090	QUICK CONNECT COUPLER - 90° ANGLE	HAND	90°	90° HYDRAULIC
H84480	QUICK CONNECT COUPLER - PUSH-ON BUTTON HEAD	HAND	90° PUSH-ON	BUTTON HEAD

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.

H85145

Quick Connect Coupler
Needle Nozzle Tip
1 1/2" Needle



 FOR HAND EQUIPMENT

H85140

Quick Connect Coupler
Needle Nozzle Tip
4" Needle



 FOR HAND EQUIPMENT

H85165

Quick Connect Coupler
Rubber Tip Nozzle
1 13/32" Needle



 FOR HAND EQUIPMENT

H85120

Quick Connect Coupler
Needle Nozzle Tip
7/8" Needle



 FOR HAND EQUIPMENT

H85200

Quick Connect Coupler
Injector Needle Tip
1 1/2" Needle



 FOR HAND EQUIPMENT

COUPLER COMPATIBILITY
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.

ITEM #	DESCRIPTION	EQUIPMENT TYPE	ANGLE	TIP
H85145	QUICK CONNECT COUPLER - 1 1/2" NEEDLE NOZZLE	HAND	STRAIGHT	NEEDLE NOZZLE
H85140	QUICK CONNECT COUPLER - 4" NEEDLE NOZZLE	HAND	STRAIGHT	NEEDLE NOZZLE
H85165	QUICK CONNECT COUPLER - 1 13/32" NEEDLE NOZZLE	HAND	STRAIGHT	RUBBER TIP
H85120	QUICK CONNECT COUPLER - 7/8" NEEDLE NOZZLE	HAND	STRAIGHT	NEEDLE NOZZLE
H85200	QUICK CONNECT COUPLER - 1 1/2" INJECTOR NEEDLE	HAND	STRAIGHT	INJECTOR NEEDLE

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.

DIAGRAM 1

Oil Hole Cover
Straight

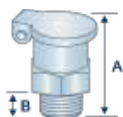


DIAGRAM 2

Oil Hole Cover
90°

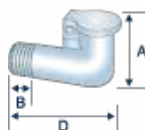


DIAGRAM 3

Oil Cup
Straight

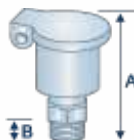
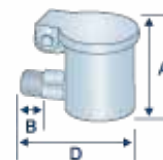


DIAGRAM 4

Oil Cup
90°



ITEM #	DIAGRAM #	TYPE	THREAD	ANGLE	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	CAPACITY (OZ.)	
DIAGRAM # 1									
H48001	DIA. 1	OIL HOLE COVER	1/8"-27 NPT	STRAIGHT	13/16"	1/4"	□	□	
H48002		OIL HOLE COVER	1/8"-27 NPT	STRAIGHT	7/8"	9/32"	□	□	
H48003		OIL HOLE COVER	1/8"-27 NPT	STRAIGHT	1 5/32"	13/32"	□	□	
H48007		OIL HOLE COVER	1/4"-18 NPT	STRAIGHT	1 5/32"	13/32"	□	□	
H48009		OIL HOLE COVER	3/8"-18 NPT	STRAIGHT	1 9/32"	3/8"	□	□	
H48010		OIL HOLE COVER	1/2"-14 NPT	STRAIGHT	1 7/16"	9/16"	□	□	
H48000		OIL HOLE COVER	10-32 UNF	STRAIGHT	9/16"	3/16"	□	□	
H48004		OIL HOLE COVER	1/4"-32 UNEF	STRAIGHT	9/16"	5/32"	□	□	
H48005		OIL HOLE COVER	1/4"-32 UNEF	STRAIGHT	9/16"	3/16"	□	□	
H48006		OIL HOLE COVER	1/4"-32 UNEF	STRAIGHT	3/4"	1/4"	□	□	
H48008		OIL HOLE COVER	5/16"-32 UNEF	STRAIGHT	27/32"	1/4"	□	□	
DIAGRAM # 2									
H48012		DIA. 2	OIL HOLE COVER	1/8"-27 NPT	90° □	25/32"	1/4"	1 3/32"	□
H48011	OIL HOLE COVER		10-32 UNF	90° □	19/32"	5/32"	3/4"	□	
H48013	OIL HOLE COVER		1/4"-32 UNEF	90° □	19/32"	3/16"	3/4"	□	
H48014	OIL HOLE COVER		5/16"-32 UNEF	90° □	25/32"	3/16"	1 3/32"	□	
H48015	OIL HOLE COVER		3/8"-24 UNF	90° □	25/32"	1/4"	1 3/32"	□	
DIAGRAM # 3									
H48100	DIA. 3	OIL CUP	1/8"-27 NPT	STRAIGHT	1 1/2"	5/16"	□	0.078 OZ.	
H48101		OIL CUP	1/8"-27 NPT	STRAIGHT	1 21/32"	5/16"	□	0.141 OZ.	
H48102		OIL CUP	1/8"-27 NPT	STRAIGHT	1 29/32"	5/16"	□	0.344 OZ.	
H48103		OIL CUP	1/4"-18 NPT	STRAIGHT	2"	3/8"	□	0.344 OZ.	
H48104		OIL CUP	3/8"-18 NPT	STRAIGHT	2 9/16"	3/8"	□	1.344 OZ.	
H48105		OIL CUP	1/2"-14 NPT	STRAIGHT	3 9/16"	9/16"	□	4.25 OZ.	
DIAGRAM # 4									
H48106	DIA. 4	OIL CUP	1/8"-27 NPT	90° □	15/16"	5/16"	1 11/32"	0.125 OZ.	
H48107		OIL CUP	1/8"-27 NPT	90° □	1 7/16"	5/16"	1 11/16"	0.5 OZ.	
H48108		OIL CUP	1/4"-18 NPT	90° □	1 7/16"	7/16"	1 15/16"	0.5 OZ.	
H48109		OIL CUP	3/8"-18 NPT	90° □	2 1/16"	7/16"	2 13/32"	1.875 OZ.	
H48110		OIL CUP	1/2"-14 NPT	90° □	2 1/16"	9/16"	3 1/2"	3.75 OZ.	



OIL HOLE COVERS ARE ALSO AVAILABLE
IN DRVE TYPE WITH BEAD &
DRVE TYPE WITH SHOULDER



CALL OUR SALES TEAM TODAY FOR MORE INFORMATION!

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.

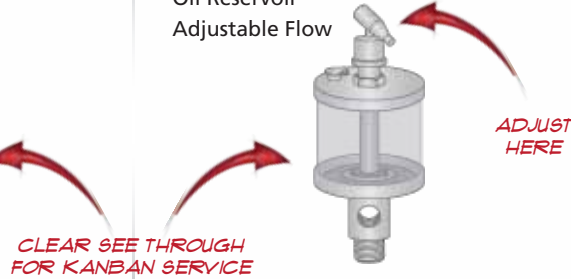
DIAGRAM 5

Oil Reservoir
Standard Flow



DIAGRAM 6

Oil Reservoir
Adjustable Flow



SPECIAL PARTS

OIL RESERVOIRS ARE ALSO AVAILABLE IN HIGH TEMPERATURE OR INTERNAL VENTED.
CALL OUR SALES TEAM TODAY FOR MORE INFORMATION!

ITEM #	DIAGRAM #	TYPE	THREAD	CAPACITY (OZ.)	BOWL DIAMETER	OVERALL LENGTH (A)
DIAGRAM # 5						
H48200	DIA. 5	STANDARD	1/8"-21 NPTF	1 OZ.	1 1/2"	3"
H48201		STANDARD		1 3/8 OZ.	1 3/4"	2 15/16"
H48202		STANDARD		1 3/4 OZ.	2"	3 1/8"
H48203		STANDARD		2 1/2 OZ.	2"	3 1/2"
H48204		STANDARD		5 OZ.	2 1/2"	4 1/8"
H48205		STANDARD		8 OZ.	2 1/2"	5 3/16"
H48206		STANDARD		9 OZ.	3"	5 3/8"
H48207		STANDARD		1 OZ.	1 1/2"	3 3/16"
H48208		STANDARD		1 3/8 OZ.	1 3/4"	3 3/16"
H48209		STANDARD	1 3/4 OZ.	2"	3 3/8"	
H48210		STANDARD	2 1/2 OZ.	2"	3 3/4"	
H48211		STANDARD	5 OZ.	2 1/2"	4 5/16"	
H48212		STANDARD	8 OZ.	2 1/2"	5 3/8"	
H48213		STANDARD	9 OZ.	3"	5 1/2"	
H48214		STANDARD	12 OZ.	3"	6 7/16"	
H48215		STANDARD	16 OZ.	3 1/2"	6 9/16"	
H48216		STANDARD	32 OZ.	4 1/4"	7 15/16"	
H48217		STANDARD	64 OZ.	5 1/2"	9 15/16"	
H48218		STANDARD	128 OZ.	5 1/2"	14 15/16"	
H48219		STANDARD	12 OZ.	3"	6 5/8"	
H48220		STANDARD	16 OZ.	3 1/2"	6 5/8"	
H48221		STANDARD	32 OZ.	4 1/4"	8 1/16"	
H48222		STANDARD	64 OZ.	5 1/2"	10 1/8"	
H48223	STANDARD	128 OZ.	5 1/2"	15 1/4"		
DIAGRAM # 6						
H48300	DIA. 6	ADJUSTABLE	1/8"-21 NPTF	5/8 OZ.	1 1/2"	4 9/16"
H48301		ADJUSTABLE	1/4"-18 NPTF	1 OZ.	1 1/2"	5 3/16"
H48302		ADJUSTABLE		1 1/2 OZ.	1 3/4"	5 3/8"
H48303		ADJUSTABLE	3/8"-18 NPTF	2 1/2 OZ.	2"	5 3/4"
H48304		ADJUSTABLE		5 OZ.	2 1/2"	6 3/8"
H48305		ADJUSTABLE		9 OZ.	3"	7 5/8"
H48306		ADJUSTABLE	1/2"-14 NPTF	12 OZ.	3"	8 15/16"
H48307		ADJUSTABLE		16 OZ.	3 1/2"	8 15/16"
H48308		ADJUSTABLE		9 OZ.	3"	7 13/16"
H48309		ADJUSTABLE	1/2"-14 NPTF	12 OZ.	3"	9 1/8"
H48310		ADJUSTABLE		16 OZ.	3 1/2"	9 1/8"

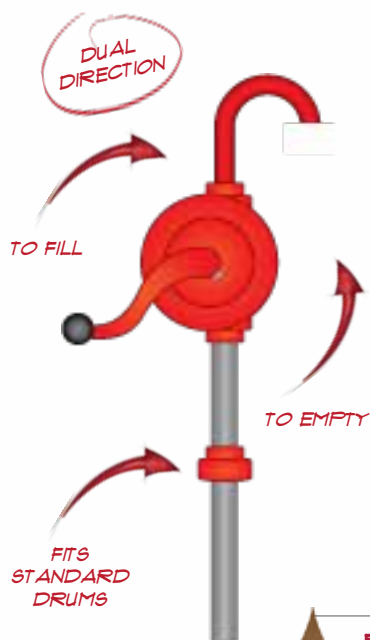
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OIL PUMPS

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.

H89100

Hand Rotary Barrel Oil Pump
Fits 15 - 55 gal. Barrel



1.3 GAL PER 20 TURNS

 FOR HAND EQUIPMENT

H89200

Hand Lever Barrel Oil Pump
Fits 15 - 55 gal. Barrel

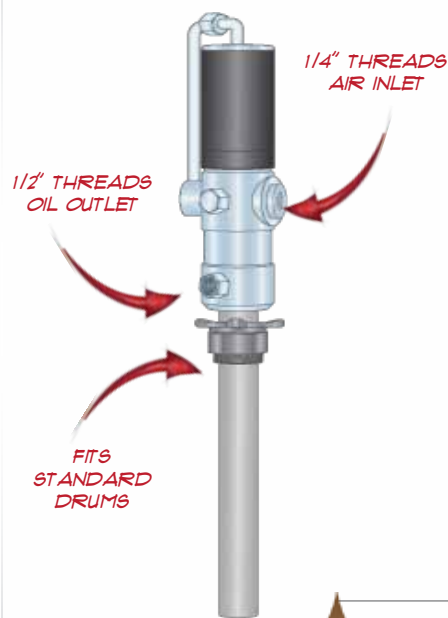


10 OZ PER 1 STROKE

 FOR HAND EQUIPMENT

H89250


5:1 Oil Pump Assembly
Fits 30 - 55 gal. Barrel



4.16 GAL PER 1 MINUTE

 USE WITH AIR SUPPLY

ITEM #	DESCRIPTION	AIR INLET THREADS	OIL OUTLET THREADS	BARREL SIZE	MAXIMUM PRESSURE	SHIP WEIGHT
H89100 *	ROTARY BARREL OIL PUMP	□	□	FITS 15 - 55 GAL	□	13.9 LBS.
H89200	LEVER BARREL OIL PUMP	□	□	FITS 15 - 55 GAL	□	5.1 LBS.
H89250	5:1 OIL PUMP	1/4"-18 NPTF	1/2"-14 NPTF	FITS 30 - 55 GAL	115 PSI	6.3 LBS.

 Common Parts
Parts with this designation are in wide distribution.

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 Lincoln Industrial®
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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.

H89500

Deluxe Lever Oil Can
32 oz.



EQUIPPED WITH FLEXIBLE HOSE & RIGID EXTENSION

H89550

Lever Oil Can
16 oz.



EQUIPPED WITH FLEXIBLE HOSE & RIGID EXTENSION

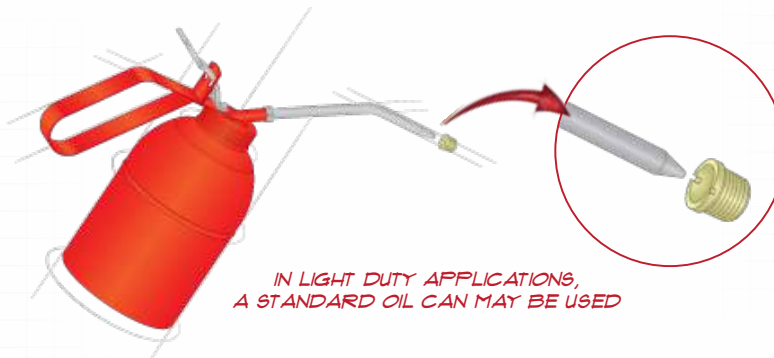
H89525


Snap Action Oil Can
12 oz.



ITEM #	DESCRIPTION	SPOUT LENGTH	BULK CAPACITY	OVERALL HEIGHT	SHIP WEIGHT
H89500	DELUXE LEVER OIL CAN	8"	32 OZ.	10"	1.0 LBS.
H89550	LEVER OIL CAN	9"	16 OZ.	7 3/8"	0.4 LBS.
H89525	SNAP ACTION OIL CAN	5"	12 OZ.	4 3/4"	2.2 LBS.

SERVICE SUGGESTION



 **Common Parts**
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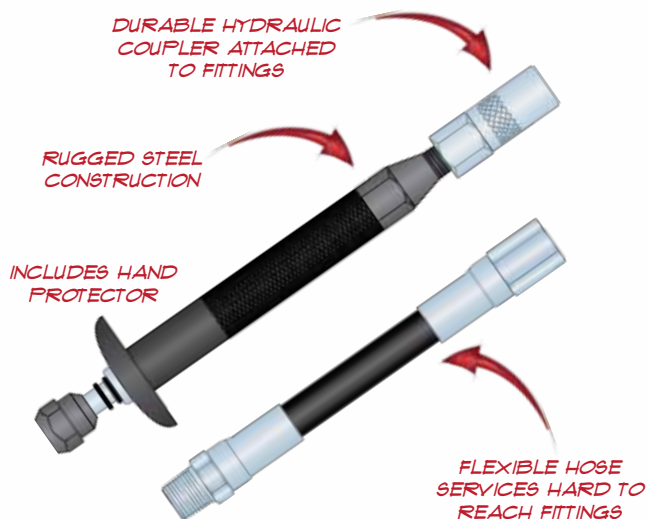
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UNBLOCKER

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.

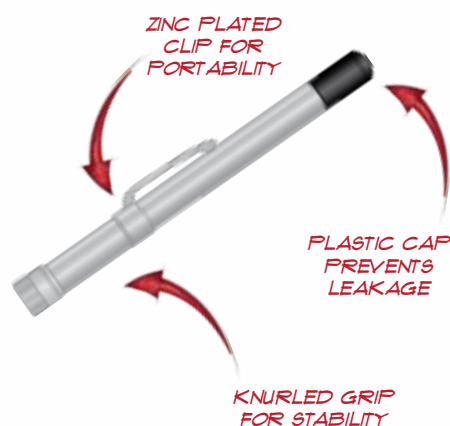
H83300

Grease Fitting Unblocker - Heavy Duty



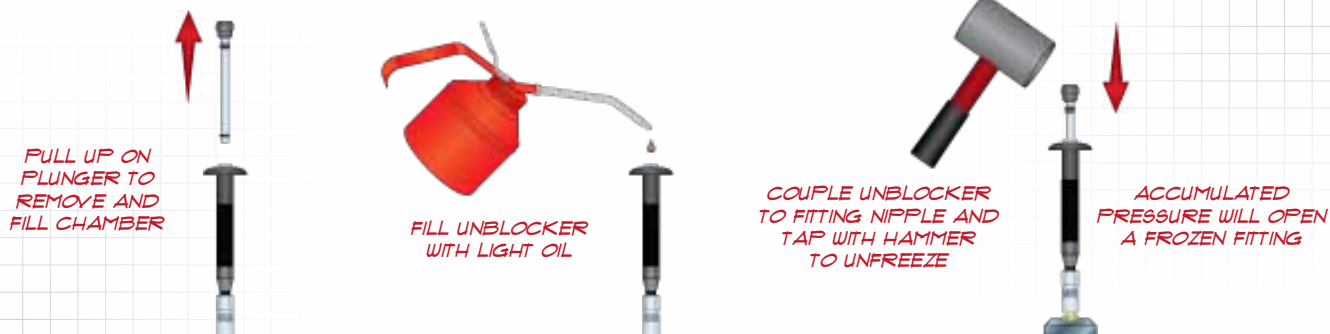
H83325

Grease Fitting Unblocker - Mini



ITEM #	DESCRIPTION	OVERALL LENGTH	HOSE LENGTH	BODY DIAMETER
H83300	GREASE FITTING UNBLOCKER - HEAVY DUTY	8.5"	5.5"	.75"
H83325	GREASE FITTING UNBLOCKER - MINI	6"	□	.5"

HOW IT WORKS



 Common Parts
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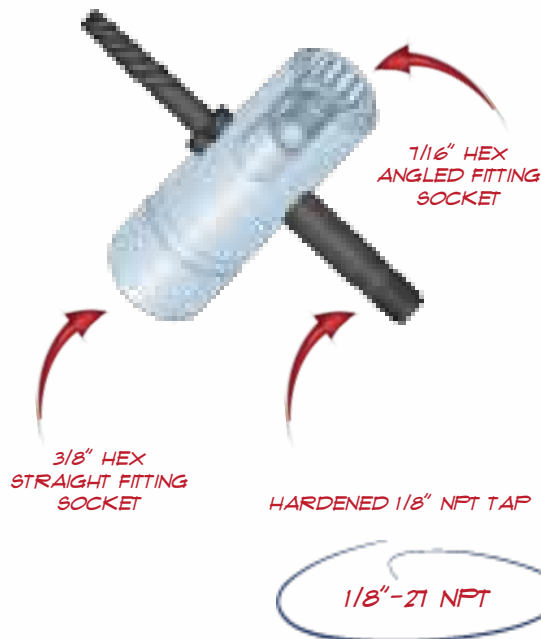
REVISED 06-11

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.

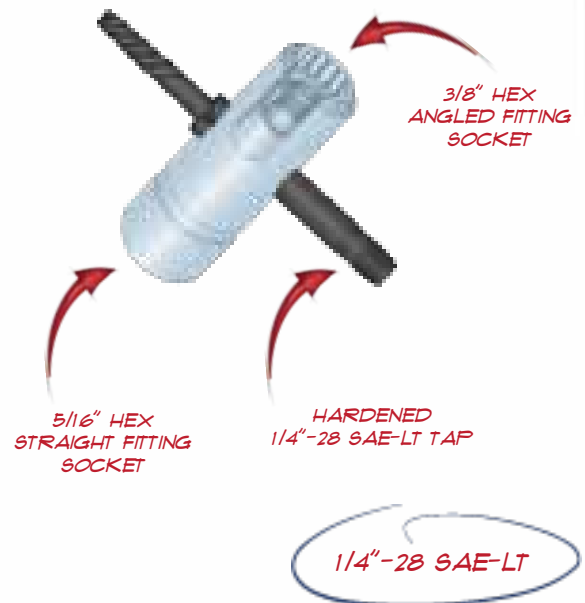
H83000

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



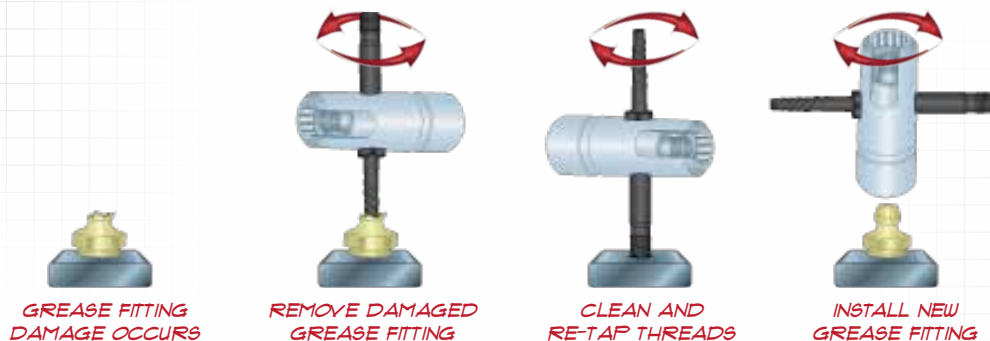
H83050

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



ITEM #	DESCRIPTION	OVERALL LENGTH	BODY DIAMETER	STRAIGHT SOCKET	ANGLED SOCKET
H83000	EASY OUT & TAP TOOL 1/8"-27 NPT	2"	0.625"	3/8" HEX	1/16" HEX
H83050	EASY OUT & TAP TOOL 1/4"-28 SAE-LT	1.625"	0.562"	5/16" HEX	3/8" HEX

HOW IT WORKS



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MATERIAL SPECS

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 Imperial 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 900° F.

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

AISI 303
BODY

AISI 304
BALL CHECK

AISI 302
SPRING

STAINLESS STEEL FITTINGS HAVE A DARK AND DULL TONE AND ARE PASSIVATED, AS ARE SOME FASTENERS AND OTHER SMALL STAINLESS STEEL COMPONENTS.

STAINLESS

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 900° 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.

MONEL® 400
BODY

MONEL®
BALL CHECK
AND SPRING

ONE
IDENTIFICATION
NOTCH ON THE
HEX FOR EASY
RECOGNITION

MONEL® FITTINGS ARE SOMEWHAT DIFFICULT TO DISCERN IN APPEARANCE FROM STAINLESS STEEL AND THEREFORE POSSESS ONE IDENTIFICATION NOTCH ON THE HEX FOR EASY RECOGNITION.

MONEL®

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.

CDA 360
BODY

AISI 420
BALL CHECK

AISI 301
SPRING

BRASS FITTINGS ARE GOLD IN COLOR AND ARE USED IN VERY SPECIAL CIRCUMSTANCES.

BRASS

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.

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.



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.

TRIVALENT 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.



TRIVALENT CHROMIUM IS SUSCEPTIBLE TO BRUISING. 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.



PLATING

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.

RED
DICHROMATE

BLUE
DICHROMATE



ELECTROLESS
NICKEL

GREEN
DICHROMATE

BLACK
DICHROMATE

1/4"-28 SAE-LT

SAE J534

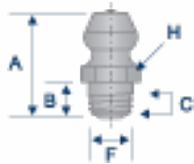
STAINLESS

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

HI641S

Straight - Stainless
1/4"-28 Taper Thread
Standard Shank

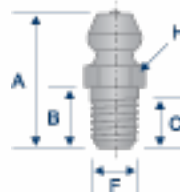


▲ 1966-9
L 5010-9

✦ AVAILABLE IN BRASS
✦ AVAILABLE IN MONEL®

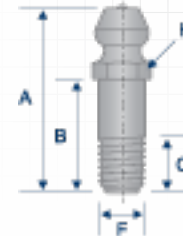
HI652S

Straight - Stainless
1/4"-28 Taper Thread
Long Shank



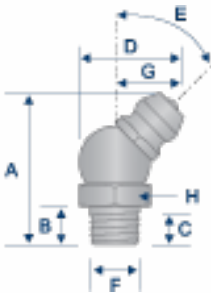
HI680S

Straight - Stainless
1/4"-28 Taper Thread
Extra Long Shank



HI637S

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

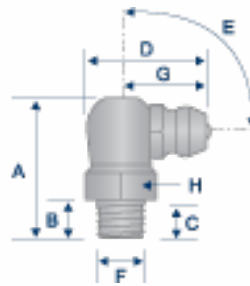


▲ 1968-9
L 5210-9

✦ AVAILABLE IN BRASS
✦ AVAILABLE IN MONEL®

HI911S

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



▲ 1969-9
L 5410-9

✦ AVAILABLE IN BRASS
✦ AVAILABLE IN MONEL®

SPECIAL PARTS

ALTERNATE MATERIALS
AND DESIGNS AVAILABLE
UPON REQUEST.

CALL OUR SALES TEAM TODAY!

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)
HI641S	1/4"-28	STRAIGHT	.54"	.18"	.10"	□	.25"	□	5/16"
HI652S	1/4"-28	STRAIGHT	.68"	.34"	.20"	□	.25"	□	5/16"
HI680S	1/4"-28	STRAIGHT	.94"	.62"	.20"	□	.25"	□	5/16"
HI637S	1/4"-28	45°	.82"	.20"	.10"	.58"	.25"	.39"	3/8"
HI911S	1/4"-28	90°	.76"	.20"	.10"	.66"	.25"	.41"	3/8"

Common Parts
Parts with this designation are in wide distribution.

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PARALLEL

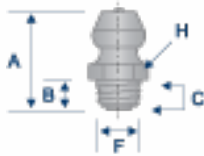
SAE J534

STAINLESS

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.

HI792S

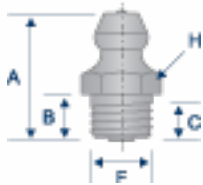
Straight - Stainless
1/4"-28 UNF
Short Shank



5521-9

HI711S

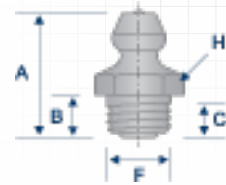
Straight - Stainless
5/16"-24 UNF
Standard Shank



AVAILABLE IN BRASS

HI710S

Straight - Stainless
3/8"-24 UNF
Standard Shank


 FOR MORE INFORMATION,
PLEASE SEE PG. 9

AVAILABLE IN BRASS

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)
HI792S	1/4"-28	STRAIGHT	.53"	.19"	.08"	□	.25"	□	9/32"
HI711S	5/16"-24	STRAIGHT	.66"	.22"	.12"	□	.31"	□	3/8"
HI710S	3/8"-24	STRAIGHT	.66"	.27"	.11"	□	.31"	□	7/16"

DRIVE TYPE

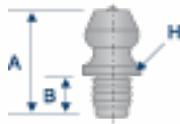
SAE J534

STAINLESS

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.

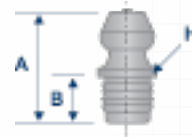
HI728S

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


 1728-6
5033-9

HI743S

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


 FOR MORE INFORMATION,
PLEASE SEE PG. 30

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
HI728S *	≈ 3/16" DRILL	STRAIGHT	.52"	.25"	□	□	5/16"	YES
HI743S *	≈ 1/4" DRILL	STRAIGHT	.55"	.25"	□	□	11/32"	YES

1/8"-27 PTF

SAE J534

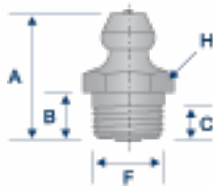
STAINLESS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI610S

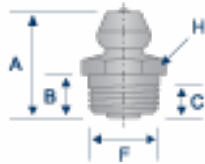
Straight - Stainless
1/8"-27 PTF Spl. Ex. Short
Standard Shank



5000-9 AVAILABLE IN BRASS

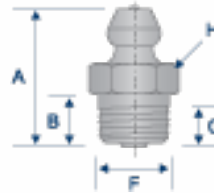
HI644S

Straight - Stainless
1/8"-27 PTF Spl. Extra Short
Short Shank



HI961S

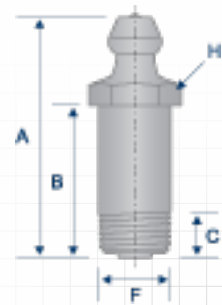
Straight - Stainless
1/8"-27 PTF Spl. Extra Short
Standard Shank



1961-9 AVAILABLE IN MONEL®

HI607S

Straight - Stainless
1/8"-27 PTF Spl. Short
Extra 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)
HI610S *	1/8"-27	STRAIGHT	.66"	.28"	.18"	□	.39"	□	7/16"
HI644S	1/8"-27	STRAIGHT	.56"	.23"	.16"	□	.39"	□	7/16"
HI961S	1/8"-27	STRAIGHT	.72"	.28"	.18"	□	.39"	□	7/16"
HI607S	1/8"-27	STRAIGHT	1.26"	.76"	.22"	□	.39"	□	7/16"

ENVIRONMENTAL USES



STAINLESS STEEL FITTINGS ARE WELL SUITED FOR USE IN MARINE APPLICATIONS AS WELL AS EXTREME TEMPERATURE ENVIRONMENTS RANGING FROM SUB-ZERO TO NEARLY 300°F (480°C)

Common Parts
Parts with this designation are in wide distribution.

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Lincoln Industrial®
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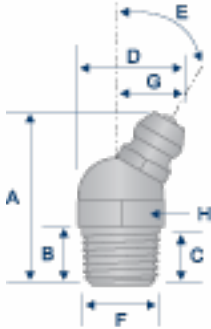
1/8"-27 PTF

SAE J534

STAINLESS

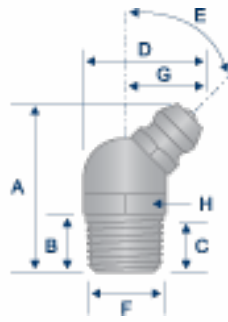
All PTF type threads are variants of the Dryseal American Standard Taper Pipe Threads (NPTF), which are designed to provide a leak-proof seal without the use of a thread sealant. Visit our Thread Guide, pages 6-9, for more details.

HI6119

 30° Angle - Stainless
 1/8"-27 PTF Spl. Short
 Standard Shank


A1921-S + AVAILABLE IN MONEL®

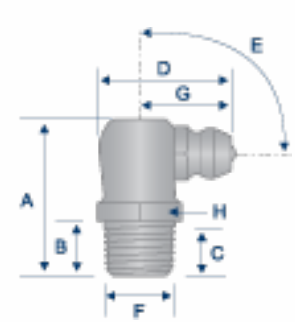
HI6899

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

HI6129

 65° Angle - Stainless
 1/8"-27 PTF Spl. Short
 Standard Shank


A1922-S + AVAILABLE IN MONEL®

HI6139

 90° Angle - Stainless
 1/8"-27 PTF Spl. Short
 Standard Shank


A1923-S + AVAILABLE IN MONEL®

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)
HI6119	1/8"-27	30°	.90"	.30"	.22"	.56"	.39"	.34"	7/16"
HI6899 *	1/8"-27	45°	.86"	.30"	.22"	.64"	.39"	.41"	7/16"
HI6129	1/8"-27	65°	.86"	.30"	.22"	.72"	.39"	.50"	7/16"
HI6139 *	1/8"-27	90°	.84"	.30"	.22"	.72"	.39"	.50"	7/16"

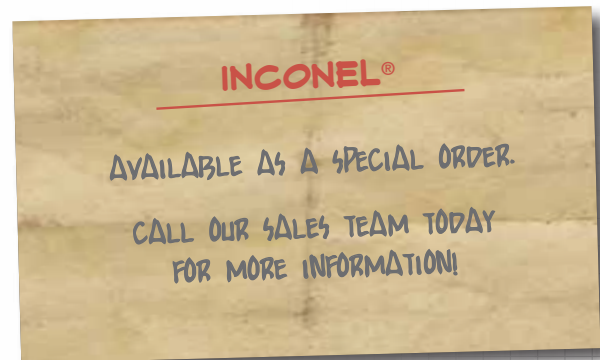
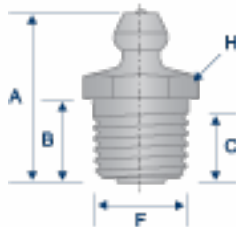
1/4"-18 PTF

SAE J534

STAINLESS

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.

HI6279

 Straight - Stainless
 1/4"-18 PTF Spl. Extra Short
 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)
HI6279 *	1/4"-18	STRAIGHT	.81"	.42"	.24"	□	.52"	□	9/16"

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BUTTON HEAD

SAE J534

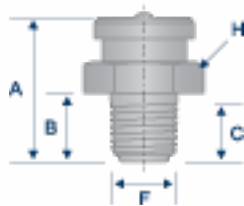
STAINLESS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H1184S

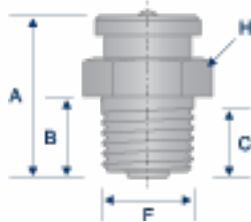
Button Head - Stainless
1/8"-27 PTF Spl. Short
Ball Check



† AVAILABLE IN MONEL®

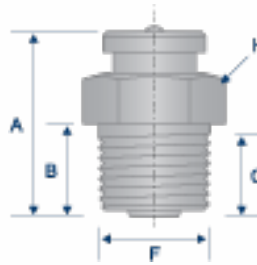
H1186S

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



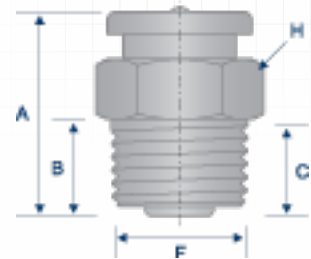
H1188S

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



H1820S

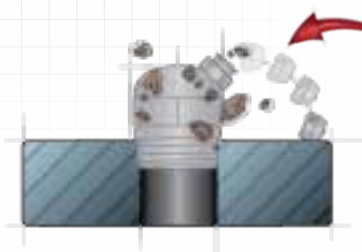
Button Head - Stainless
1/2"-14 NPTF
Ball Check



ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
H1184S	1/8"-27	.75"	.34"	.22"	.39"	5/8"	BALL CHECK
H1186S	1/4"-18	.83"	.42"	.21"	.52"	5/8"	BALL CHECK
H1188S	3/8"-18	.95"	.48"	.41"	.64"	3/4"	BALL CHECK
H1820S	1/2"-14	1.06"	.50"	.44"	.82"	7/8"	BALL CHECK

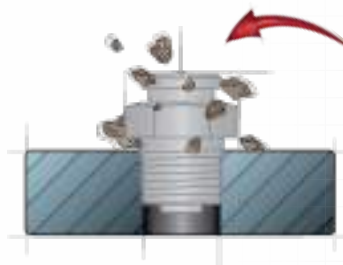
CONSIDER THIS...

CONVENTIONAL STYLE

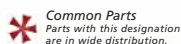


DEBRIS CAN DAMAGE NIPPLES IN EXTREMELY HARSH ENVIRONMENTS

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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REVISED 06-11

PRESSURE & FLOW CONTROL

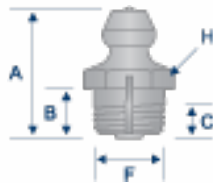
SAE J534

STAINLESS

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. Standard vents, such as the H369606S, are not equipped to serve as a lubrication point, but rather to release pressure in the bearing, see pages 50-51 for details on pressure control.

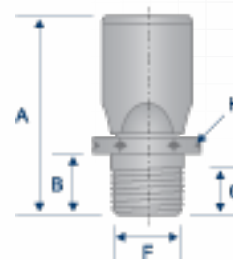
H1930S

Straight Safety Vent - Stainless
1/8"-27 PTF Spl. Extra Short
Standard Shank



H369606S

Vent - Stainless
1/8"-27 PTF SAE Short
Opening Range 1-2 psi



FOR MORE INFORMATION,
PLEASE SEE PG. 50

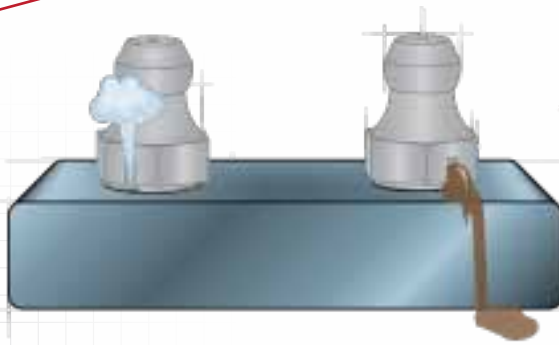
 369606

SINGLE NOTCH
FOR POSITIVE
STAINLESS STEEL ID

ITEM #	THREAD	ANGLE (E)	OPENING PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H1930S	1/8"-27	STRAIGHT	□	.66"	.28"	.18"	.39"	7/16"
H369606S	1/8"-27	STRAIGHT	1-2 PSI	1.04"	.30"	.24"	.39"	9/16"

DESIGN FEATURE

FOR MORE INFORMATION,
PLEASE SEE PG. 58



THE GROOVE ALONG THE THREADS OF SAFETY VENTS IS A COST EFFECTIVE WAY TO PROTECT BEARING SEALS FROM OVER PRESSURIZATION

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

M5 & M6 & M8

DIN 71412

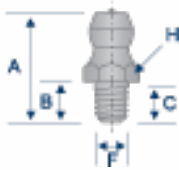
STAINLESS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

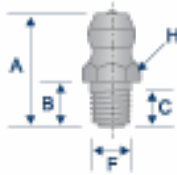
H21003

Straight - Stainless
M5 x 0.8 Taper Thread
Standard Shank



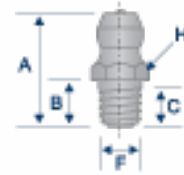
H21155

Straight - Stainless
M6 x 0.75 Taper Thread
Standard Shank



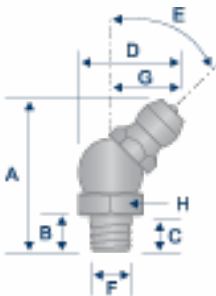
H21063

Straight - Stainless
M6 x 1.0 Taper Thread
Standard Shank



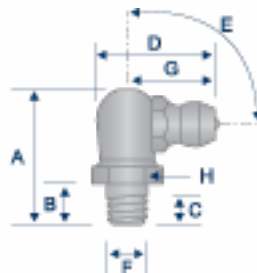
H21073

45° Angle - Stainless
M6 x 1.0 Taper Thread
Standard Shank



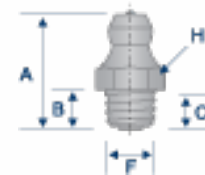
H21083

90° Angle - Stainless
M6 x 1.0 Taper Thread
Standard Shank



H21123

Straight - Stainless
M8 x 1.25 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)
H21003	M5 x 0.8	STRAIGHT	15.0 MM	5.5 MM	3.1 MM	□	5.0 MM	□	7.0 MM
H21155	M6 x 0.75	STRAIGHT	15.0 MM	5.5 MM	3.1 MM	□	6.0 MM	□	7.0 MM
H21063 *	M6 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.1 MM	□	6.0 MM	□	7.0 MM
H21073 *	M6 x 1.0	45°	21.0 MM	5.5 MM	3.1 MM	14.0 MM	6.0 MM	10.0 MM	9.0 MM
H21083 *	M6 x 1.0	90°	18.0 MM	5.5 MM	3.1 MM	18.0 MM	6.0 MM	14.0 MM	9.0 MM
H21123	M8 x 1.25	STRAIGHT	17.0 MM	5.5 MM	3.1 MM	□	8.0 MM	□	9.0 MM



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M8 & M10 & M12

DIN 71412

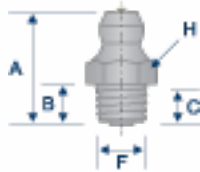
STAINLESS

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

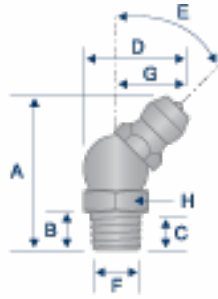
H2103S

Straight - Stainless
M8 x 1.0 Taper Thread
Standard Shank



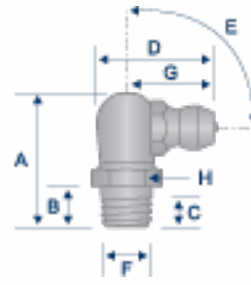
H2104S

45° Angle - Stainless
M8 x 1.0 Taper Thread
Standard Shank



H2105S

90° Angle - Stainless
M8 x 1.0 Taper Thread
Standard Shank



SPECIAL PARTS

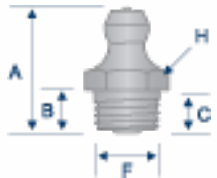
DON'T SEE WHAT YOU NEED?

OUR IN-HOUSE MACHINE SHOP CAN MAKE IT FOR YOU.

CALL OUR SALES TEAM FOR MORE INFORMATION!

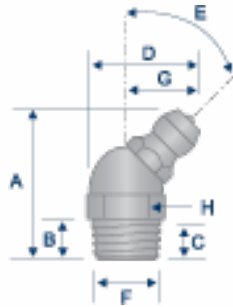
H2109S

Straight - Stainless
M10 x 1.0 Taper Thread
Standard Shank



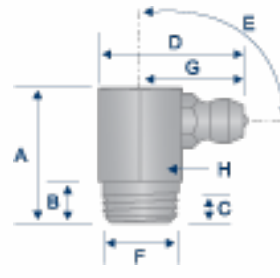
H2110S

45° Angle - Stainless
M10 x 1.0 Taper Thread
Standard Shank



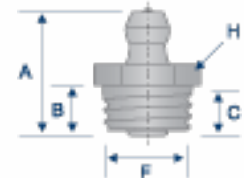
H2111S

90° Angle - Stainless
M10 x 1.0 Taper Thread
Standard Shank



H2124S

Straight - Stainless
M12 x 1.5 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)
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	11.0 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

Common Parts
Parts with this designation are in wide distribution.

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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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METRIC - FLUSH TYPE

DIN 3405

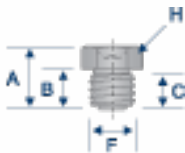
STAINLESS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

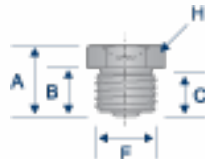
H2406S

Straight Flush Type - Stainless
M6 x 1.0 Parallel Thread
Standard Shank



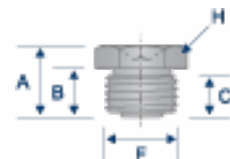
H2403S

Straight Flush Type - Stainless
M8 x 1.0 Parallel Thread
Standard Shank



H2409S

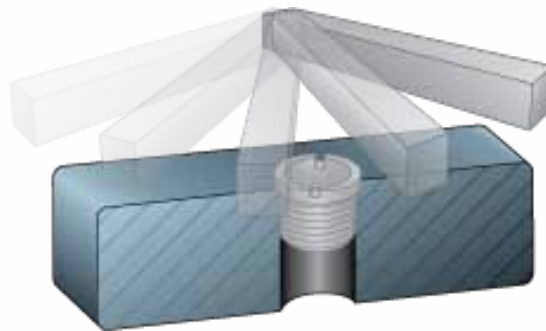
Straight Flush Type - Stainless
M10 x 1.0 Parallel Thread
Standard Shank



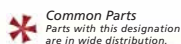
ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H2406S	M6 x 1.0	8.5 MM	5.5 MM	3.7 MM	6.0 MM	7.0 MM
H2403S	M8 x 1.0	9.5 MM	6.5 MM	3.7 MM	8.0 MM	9.0 MM
H2409S	M10 x 1.0	9.5 MM	6.5 MM	3.7 MM	10.0 MM	11.0 MM

DESIGN FEATURE

FOR MORE INFORMATION,
PLEASE SEE PG. 38



*FLUSH TYPE FITTINGS ARE IDEAL FOR APPLICATIONS WITH
HARD TO LUBRICATE AREAS AND/OR IN LOW CLEARANCE AREAS*



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BRITISH - BUTTON HEAD

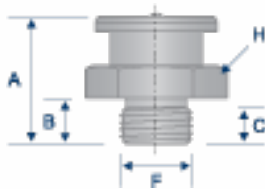
DIN 3404

STAINLESS

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.

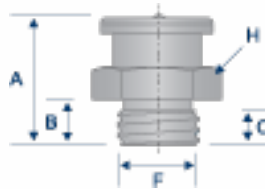
H2800S

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



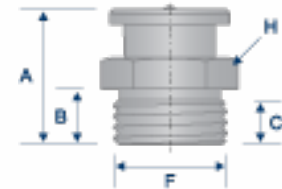
H2803S

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



H2806S

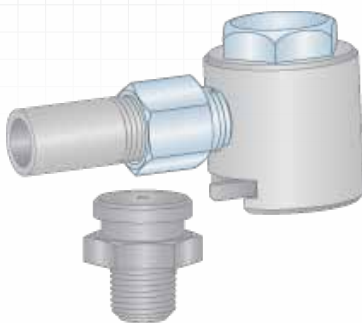
Button Head - Stainless
3/8" -19 BSPP
Ball Check



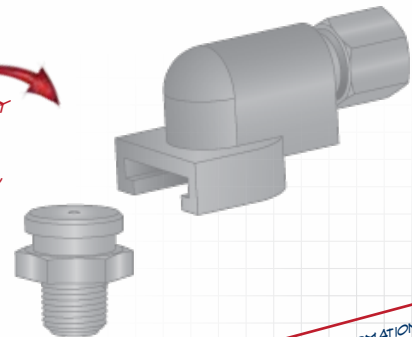
ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE TYPE
H2800S	1/8"-28	.61"	.24"	.15"	.38"	17.0 MM	BALL CHECK
H2803S	1/4"-19	.61"	.24"	.15"	.51"	17.0 MM	BALL CHECK
H2806S	3/8"-19	.71"	.28"	.16"	.65"	17.0 MM	BALL CHECK

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

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

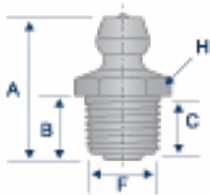
H2600S

Straight - Stainless
1/8"-28 BSPT



H2610S

Straight - Stainless
R 1/8"



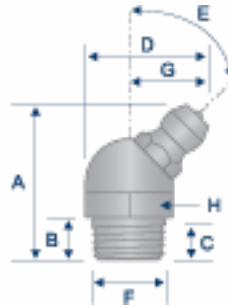
H2601S

45° Angle - Stainless
1/8"-28 BSPT



H2611S

45° Angle - Stainless
R 1/8"



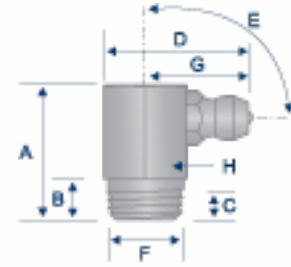
H2602S

90° Angle - Stainless
1/8"-28 BSPT



H2612S

90° Angle - Stainless
R 1/8"



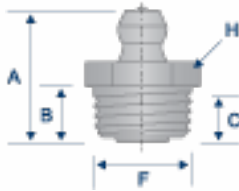
H2603S

Straight - Stainless
1/4"-19 BSPT



H2613S

Straight - Stainless
R 1/4"



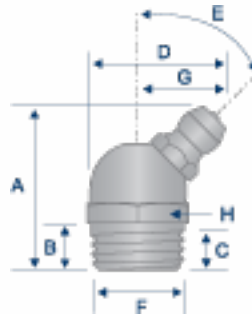
H2604S

45° Angle - Stainless
1/4"-19 BSPT



H2614S

45° Angle - Stainless
R 1/4"



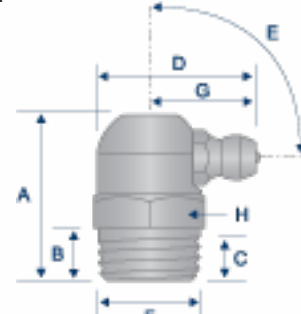
H2605S

90° Angle - Stainless
1/4"-19 BSPT



H2615S

90° Angle - Stainless
R 1/4"



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)
H2600S	1/8"-28	STRAIGHT	.79"	.32"	.23"	□	.38"	□	11.0 MM
H2601S	1/8"-28	45°	.83"	.22"	.15"	.64"	.38"	.43"	11.0 MM
H2602S	1/8"-28	90°	.71"	.22"	.15"	.83"	.38"	.61"	11.0 MM
H2603S	1/4"-19	STRAIGHT	.69"	.26"	.15"	□	.51"	□	14.0 MM
H2604S	1/4"-19	45°	.89"	.26"	.15"	.75"	.51"	.41"	14.0 MM
H2605S	1/4"-19	90°	.81"	.26"	.15"	.91"	.51"	.63"	14.0 MM



Common Parts
Parts with this designation
are in wide distribution.



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REVISED 06-11

BRITISH - FINE THREAD

DIN 71412

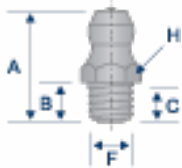
STAINLESS

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

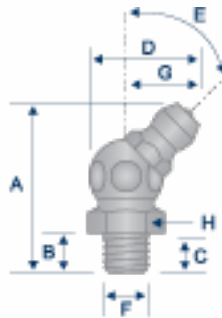
H27009

Straight - Stainless
1/4"-26 BSF



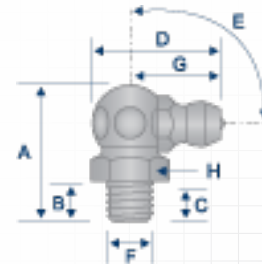
H27019

45° Angle - Stainless
1/4"-26 BSF



H27029

90° Angle - Stainless
1/4"-26 BSF



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)
H27009	1/4"-26	STRAIGHT	.59"	.22"	.15"	□	.25"	□	7.0 MM
H27019	1/4"-26	45°	.93"	.22"	.15"	.59"	.25"	.39"	9.0 MM
H27029	1/4"-26	90°	.71"	.22"	.15"	.67"	.25"	.51"	9.0 MM

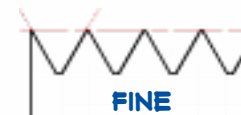
FINE THREAD ASSESSMENT

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



1/4"-28 SAE-LT

SAE J534

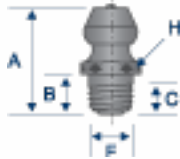
MONEL®

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI641M

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

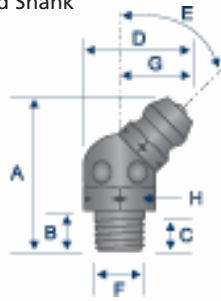


▲ 1966-B

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN BRASS

HI637M

45° Angle - Monel®
1/4"-28 Taper Thread
Standard Shank

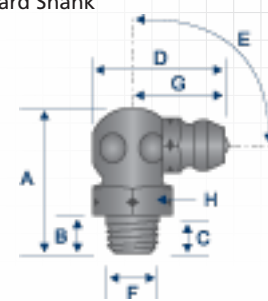


▲ 1968-B

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN BRASS

HI911M

90° Angle - Monel®
1/4"-28 Taper Thread
Standard Shank



▲ 1969-B

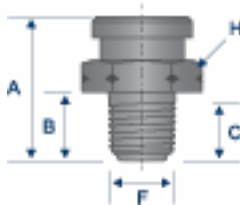
✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN BRASS

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)
HI641M	1/4"-28	STRAIGHT	.53"	.19"	.11"	□	.25"	□	5/16"
HI637M	1/4"-28	45°	.81"	.20"	.10"	.59"	.25"	.40"	3/8"
HI911M	1/4"-28	90°	.75"	.20"	.11"	.68"	.25"	.49"	3/8"

BUTTON HEAD

HI184M

Straight Button Head - Monel®
1/8"-27 PTF Spl. Short
Plunger Check



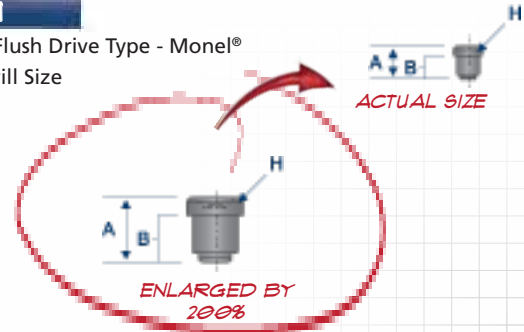
▲ M1184

✦ AVAILABLE IN STAINLESS

FLUSH TYPE

HI877M

Straight Flush Drive Type - Monel®
≈ 1/8" Drill Size



ITEM #	THREAD	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX / SHOULDER DIAMETER (H)
HI184M	1/8"-27	□	.75"	.34"	.22"	.39"	5/8"
HI877M	□	≈ 1/8" DRILL	.18"	.13"	□	□	5/32"

✦ Common Parts
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1/8"-27 PTF

SAE J534

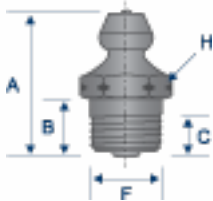
MONEL®

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).

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

HI961M

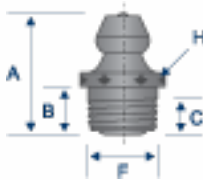
Straight - Monel®
1/8"-27 PTF Spl. Extra Short
Standard Shank



▲ 1961-B AVAILABLE IN STAINLESS

HI962M

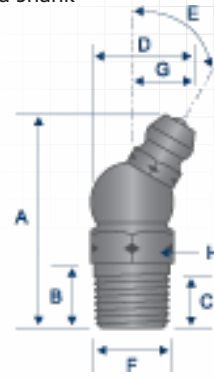
Straight - Monel®
1/8"-27 PTF Spl. Extra Short
Standard Shank



▲ 1962-B

HI611M

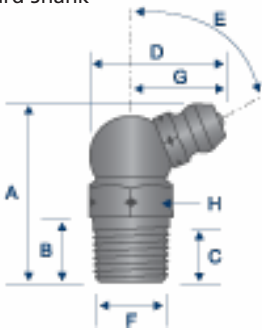
30° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



▲ 1921-B AVAILABLE IN STAINLESS

HI612M

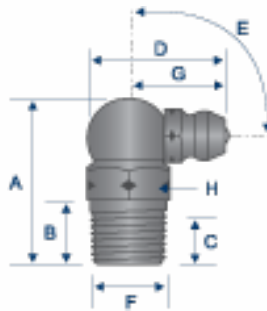
67.5° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



▲ 1922-B AVAILABLE IN STAINLESS

HI613M

90° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



▲ 1923-B AVAILABLE IN STAINLESS

INCONEL®

AVAILABLE AS A
SPECIAL ORDER.

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FOR MORE INFORMATION!

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)
HI961M	1/8"-27	STRAIGHT	.75"	.31"	.16"	□	.39"	□	7/16"
HI962M *	1/8"-27	STRAIGHT	.63"	.28"	.16"	□	.39"	□	7/16"
HI611M	1/8"-27	30° □	1.25"	.34"	.19"	.55"	.39"	.33"	7/16"
HI612M	1/8"-27	67.5° □	.95"	.34"	.19"	.72"	.39"	.50"	7/16"
HI613M *	1/8"-27	90° □	.88"	.34"	.19"	.73"	.39"	.51"	7/16"

* Common Parts
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1/4"-28 SAE-LT

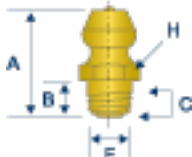
SAE J534

BRASS

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.

HI641B

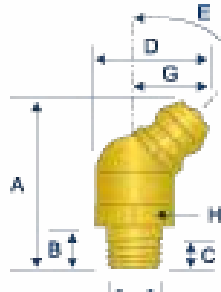
Straight - Brass
1/4"-28 Taper Thread
Standard Shank



✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

HI637B

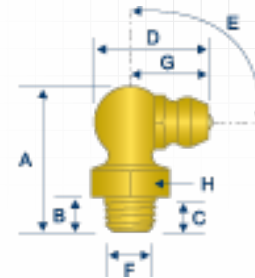
45° Angle - Brass
1/4"-28 Taper Thread
Standard Shank



✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

HI911B

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



✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

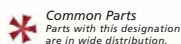
ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
HI641B	1/4"-28	STRAIGHT	.54"	.18"	.10"	□	.25"	□	5/16"
HI637B	1/4"-28	45°	.82"	.20"	.10"	.58"	.25"	.39"	3/8"
HI911B	1/4"-28	90°	.75"	.20"	.10"	.66"	.25"	.41"	3/8"

CUSTOMERS ALSO BOUGHT

CUSTOM BRASS FITTINGS



BUTTON HEAD FITTINGS AND OTHER CUSTOM PARTS ARE AVAILABLE BY SPECIAL ORDER



Common Parts
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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1/8"-27 PTF

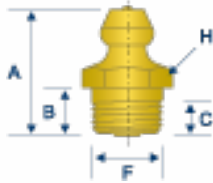
SAE J534

BRASS

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



✦ AVAILABLE IN STAINLESS

SPECIAL PARTS

DON'T SEE WHAT YOU NEED?
OUR IN-HOUSE MACHINE SHOP
CAN MAKE YOUR CUSTOM PART.
CALL OUR SALES TEAM TODAY
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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)
H1610B	1/8"-27	STRAIGHT	.66"	.28"	.18"	□	.39"	□	7/16"

PARALLEL THREADS

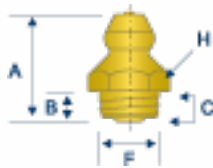
SAE J534

BRASS

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.

H1711B

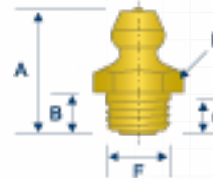
Straight - Brass
5/16"-24 UNF
Short Shank



✦ AVAILABLE IN STAINLESS

H1710B

Straight - Brass
3/8"-24 UNF
Standard Shank



✦ AVAILABLE IN 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)
H1711B	5/16"-24	STRAIGHT	.66"	.20"	.12"	□	.31"	□	3/8"
H1710B	3/8"-24	STRAIGHT	.64"	.24"	.14"	□	.31"	□	7/16"

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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 J534

CONCENTRIC BALL

- DIN 71412
- Positioned flush to the surface of the nipple

HEAT TREATMENT

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

SHANK LENGTH

- Standardized per DIN 71412

ASSEMBLY

- Lip is sealed after assembly of ball & spring

PLATING

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

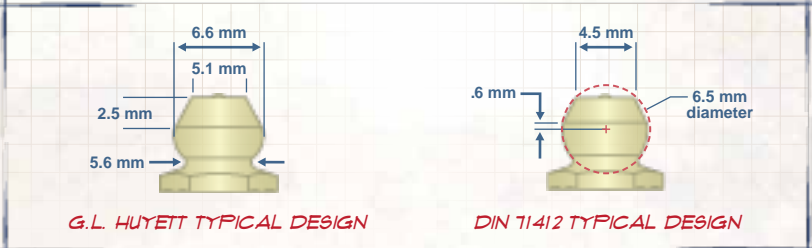
SPRING

MACHINED THREADS

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

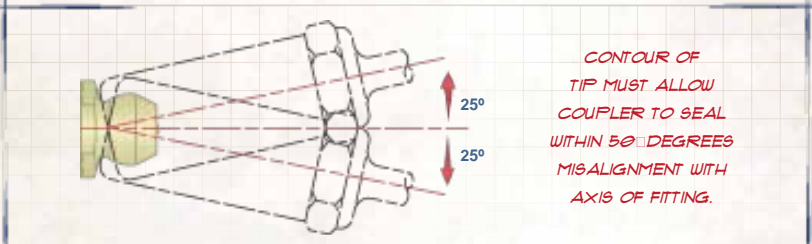
NIPPLE VARIATIONS

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.



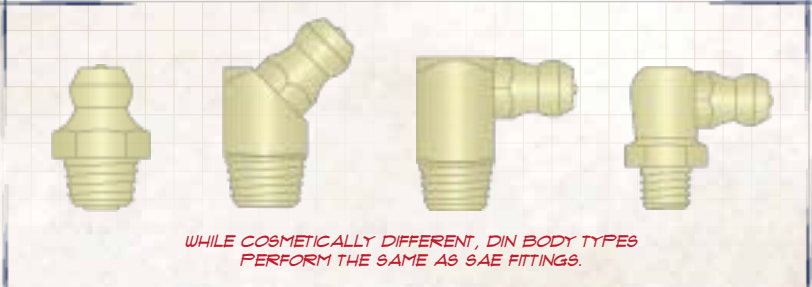
COUPLER ALIGNMENT

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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DESIGN STANDARDS

THREAD SPECIFICATION

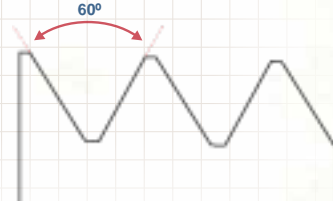
1 METRIC TAPERED THREADS

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.

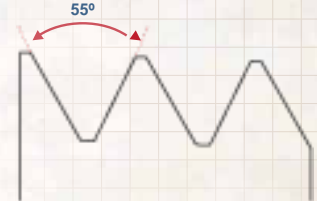
2 WHITWORTH THREADS

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

METRIC TAPERED



WHITWORTH



TAPERED FITTINGS ARE DESIGNED TO MATE IN PARALLEL THREADED HOLES. THREAD SEALANT IS REQUIRED FOR A LEAK-FREE SEAL.

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

DIN EN ISO 6507

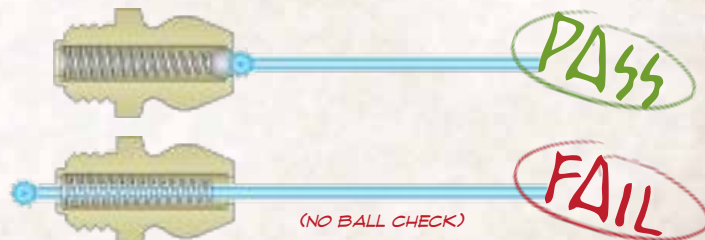


PLATED

DIN 261-9, DIN EN ISO 4042



ASSEMBLED



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M6 - POPULAR

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

DIN 71412

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 H213014 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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2106 </p> <p>Straight M6 x 1.0 Taper Thread Standard Shank</p> <p> 2106 + AVAILABLE IN STAINLESS 5175 58M5573</p>	<p>H2107 </p> <p>45° Angle M6 x 1.0 Taper Thread Standard Shank</p> <p> 2107 + AVAILABLE IN STAINLESS 5176 58M5632</p>	<p>H2108 </p> <p>90° Angle M6 x 1.0 Taper Thread Standard Shank</p> <p> 2108 + AVAILABLE IN STAINLESS 5177 58M1014</p>
<p>H211652</p> <p>Straight M6 x 1.0 Taper Thread Long Shank</p>	<p>H211680</p> <p>Straight M6 x 1.0 Taper Thread Extra Long Shank</p>	<p>H213014</p> <p>Straight M6 x 1.0 Taper Thread Ultra Long Shank</p>

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)
H2106	M6 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	6.0 MM	□	7.0 MM
H2107	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
H2108	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
H211652	M6 x 1.0	STRAIGHT	17.3 MM	8.5 MM	5.0 MM	□	6.0 MM	□	7.0 MM
H211680	M6 x 1.0	STRAIGHT	24.0 MM	14.0 MM	6.0 MM	□	6.0 MM	□	7.0 MM
H213014	M6 x 1.0	STRAIGHT	41.0 MM	31.0 MM	5.0 MM	□	6.0 MM	□	7.0 MM

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M8 - POPULAR

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

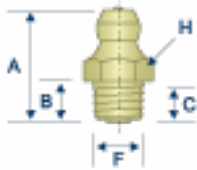
DIN 71412

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

H2103

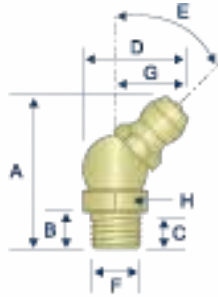
Straight
M8 x 1.0 Taper Thread
Standard Shank



2103 + AVAILABLE IN STAINLESS
 5178

H2104

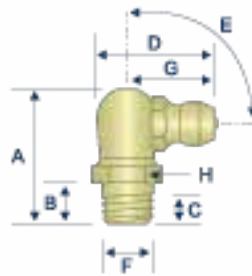
45° Angle
M8 x 1.0 Taper Thread
Standard Shank



5179 + AVAILABLE IN STAINLESS

H2105

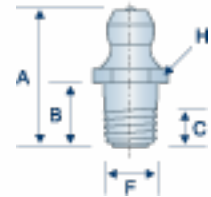
90° Angle
M8 x 1.0 Taper Thread
Standard Shank



2105 + AVAILABLE IN STAINLESS
 5180

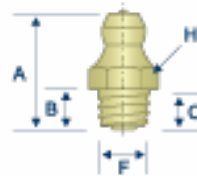
H2193

Straight
M8 x 1.0 Taper Thread
Long Shank



H2112

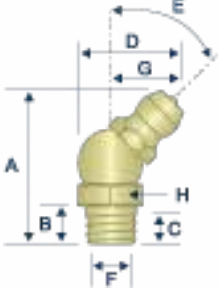
Straight
M8 x 1.25 Taper Thread
Standard Shank



+ AVAILABLE IN STAINLESS

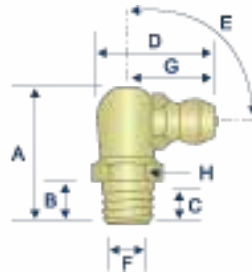
H2113

45° Angle
M8 x 1.25 Taper Thread
Standard Shank



H2114

90° Angle
M8 x 1.25 Taper Thread
Standard Shank



+ AVAILABLE IN STAINLESS

SPECIAL PARTS

LOOKING FOR SOMETHING SPECIAL?

CALL THE G.L. HUYETT SALES TEAM, AND WE WILL MAKE YOUR PART TO YOUR SPECIFICATIONS!

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)
H2103 *	M8 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	8.0 MM	□	9.0 MM
H2104 *	M8 x 1.0	45°	21.0 MM	5.5 MM	3.7 MM	14.0 MM	8.0 MM	9.8 MM	9.0 MM
H2105 *	M8 x 1.0	90°	18.0 MM	5.5 MM	3.7 MM	16.0 MM	8.0 MM	12.0 MM	9.0 MM
H2193	M8 x 1.0	STRAIGHT	18.5 MM	8.5 MM	4.0 MM	□	8.0 MM	□	9.0 MM
H2112	M8 x 1.25	STRAIGHT	17.0 MM	5.5 MM	3.7 MM	□	8.0 MM	□	9.0 MM
H2113	M8 x 1.25	45°	21.0 MM	5.5 MM	3.7 MM	14.0 MM	8.0 MM	9.8 MM	9.0 MM
H2114	M8 x 1.25	90°	18.0 MM	5.5 MM	3.7 MM	16.0 MM	8.0 MM	12.0 MM	9.0 MM

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M10 - POPULAR

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

DIN 71412

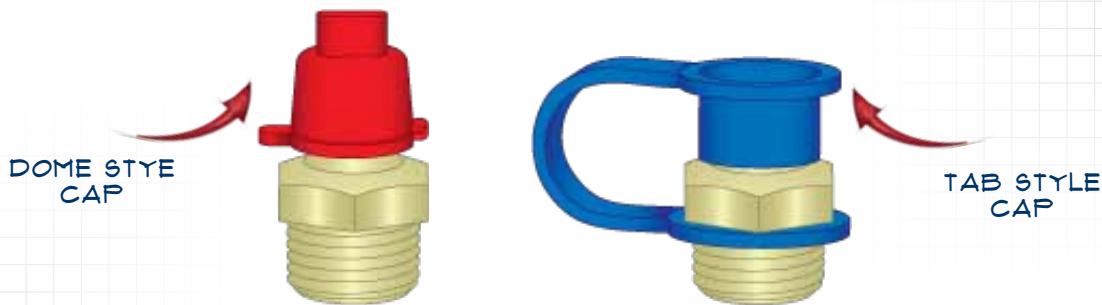
The larger, stronger 10.0 mm threads on these parts are suited for use on industrial machinery, construction equipment and on any rugged application where fitting damage is a concern. The full hex body form of the H2111 is preferred in some applications but functions similarly to conventional round body forms.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2109 ✖</p> <p>Straight M10 x 1.0 Taper Thread Standard Shank</p> <p>▲ 2109 ✖ AVAILABLE IN STAINLESS L 5181 ▲ 58M5515</p>	<p>H2110 ✖</p> <p>45° Angle M10 x 1.0 Taper Thread Standard Shank</p> <p>▲ 5182 ✖ AVAILABLE IN STAINLESS ▲ 58M5518</p>	<p>H2111 ✖</p> <p>90° Angle M10 x 1.0 Taper Thread Standard Shank</p> <p>▲ 5183 ✖ AVAILABLE IN STAINLESS</p>	<p>H211610</p> <p>Straight M10 x 1.0 Taper Thread Long Shank</p>
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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)
H2109 ✖	M10 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	10.0 MM	□	11.0 MM
H2110 ✖	M10 x 1.0	45°	21.0 MM	5.5 MM	3.7 MM	16.0 MM	10.0 MM	11.0 MM	11.0 MM
H2111 ✖	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
H211610	M10 x 1.0	STRAIGHT	17.5 MM	7.5 MM	4.0 MM	□	10.0 MM	□	11.0 MM

PROTECTIVE DEVICES



COLOR CODED GREASE CAPS, PAGE 100, HELP TO LABEL GREASING POINTS FOR SPECIFIC LUBRICANTS AND/OR GREASING SCHEDULES

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M5 & M6

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

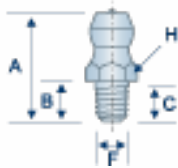
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H2100

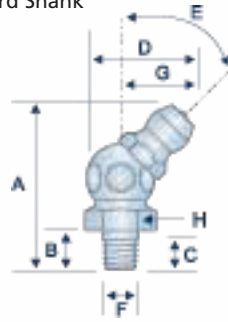
Straight
M5 x 0.8 Taper Thread
Standard Shank



✦ AVAILABLE IN STAINLESS

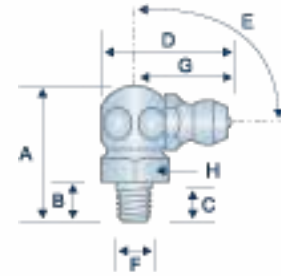
H2101

45° Angle
M5 x 0.8 Taper Thread
Standard Shank



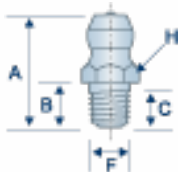
H2102

90° Angle
M5 x 0.8 Taper Thread
Standard Shank



H2115

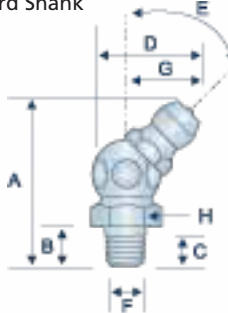
Straight
M6 x 0.75 Taper Thread
Standard Shank



✦ AVAILABLE IN STAINLESS

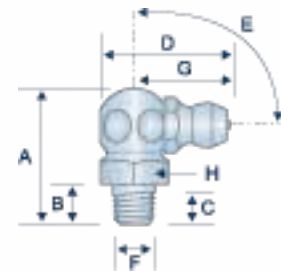
H2116

45° Angle
M6 x 0.75 Taper Thread
Standard Shank



H2117

90° Angle
M6 x 0.75 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)
H2100	M5 x 0.8	STRAIGHT	15.0 MM	5.5 MM	3.7 MM	□	5.0 MM	□	7.0 MM
H2101	M5 x 0.8	45°	23.5 MM	5.5 MM	3.7 MM	15.0 MM	5.0 MM	10.0 MM	9.0 MM
H2102	M5 x 0.8	90°	18.0 MM	5.5 MM	3.7 MM	17.0 MM	5.0 MM	13.0 MM	9.0 MM
H2115	M6 x 0.75	STRAIGHT	15.0 MM	5.5 MM	3.7 MM	□	6.0 MM	□	7.0 MM
H2116	M6 x 0.75	45°	23.5 MM	5.5 MM	3.7 MM	15.0 MM	6.0 MM	10.0 MM	9.0 MM
H2117	M6 x 0.75	90°	18.0 MM	5.5 MM	3.7 MM	17.0 MM	6.0 MM	13.0 MM	9.0 MM



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M7 & M8

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

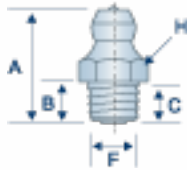
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

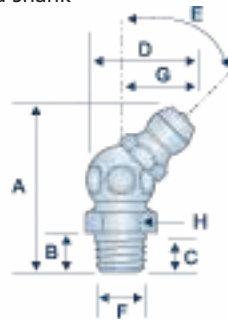
H2139

Straight
M7 x 1.0 Taper Thread
Standard Shank



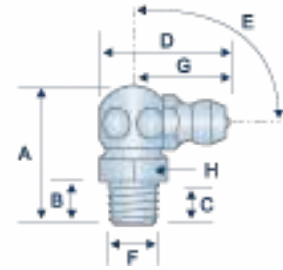
H2140

45° Angle
M7 x 1.0 Taper Thread
Standard Shank



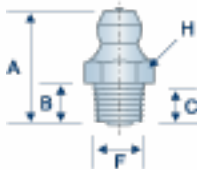
H2141

90° Angle
M7 x 1.0 Taper Thread
Standard Shank



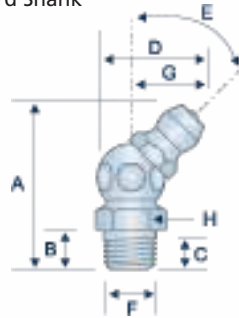
H2118

Straight
M8 x 0.75 Taper Thread
Standard Shank



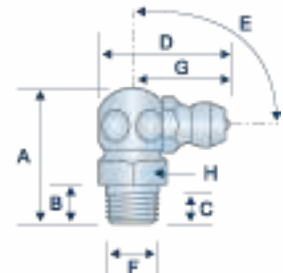
H2119

45° Angle
M8 x 0.75 Taper Thread
Standard Shank



H2120

90° Angle
M8 x 0.75 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)
H2139	M7 x 1.0	STRAIGHT	15.0 MM	5.5 MM	3.1 MM	□	7.0 MM	□	9.0 MM
H2140	M7 x 1.0	45°	23.5 MM	5.5 MM	3.1 MM	15.0 MM	7.0 MM	10.0 MM	9.0 MM
H2141	M7 x 1.0	90°	18.0 MM	5.5 MM	3.1 MM	17.0 MM	7.0 MM	13.0 MM	9.0 MM
H2118	M8 x 0.75	STRAIGHT	15.0 MM	5.5 MM	3.1 MM	□	8.0 MM	□	9.0 MM
H2119	M8 x 0.75	45°	23.5 MM	5.5 MM	3.1 MM	15.0 MM	8.0 MM	10.0 MM	9.0 MM
H2120	M8 x 0.75	90°	18.0 MM	5.5 MM	3.1 MM	17.0 MM	8.0 MM	13.0 MM	9.0 MM



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REVISED 06-11

M10

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

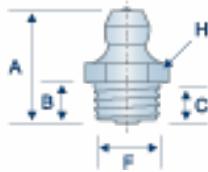
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H2136

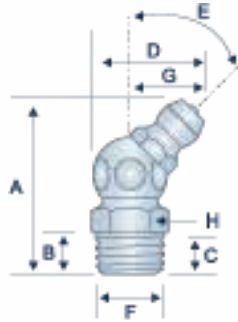
Straight
M10 x 1.25 Taper Thread
Standard Shank



CC71099

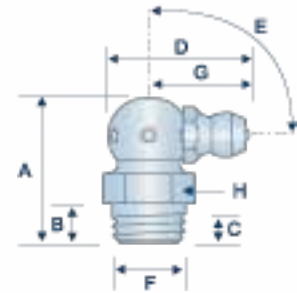
H2137

45° Angle
M10 x 1.25 Taper Thread
Standard Shank



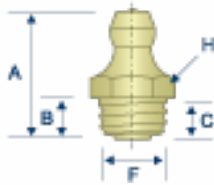
H2138

90° Angle
M10 x 1.25 Taper Thread
Standard Shank



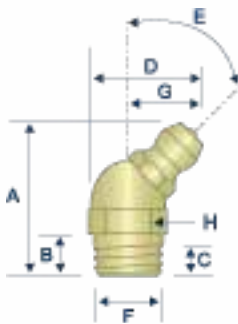
H2121

Straight
M10 x 1.5 Taper Thread
Standard Shank



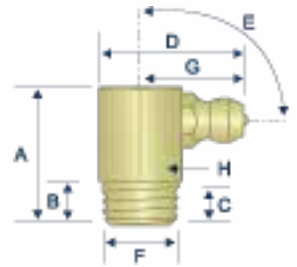
H2122

45° Angle
M10 x 1.5 Taper Thread
Standard Shank

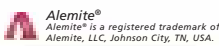


H2123

90° Angle
M10 x 1.5 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)
H2136	M10 x 1.25	STRAIGHT	15.0 MM	5.5 MM	3.1 MM	□	10.0 MM	□	11.0 MM
H2137	M10 x 1.25	45°	25.0 MM	5.5 MM	3.1 MM	17.0 MM	10.0 MM	11.0 MM	11.0 MM
H2138	M10 x 1.25	90°	20.0 MM	5.5 MM	3.1 MM	19.0 MM	10.0 MM	14.0 MM	11.0 MM
H2121	M10 x 1.5	STRAIGHT	18.0 MM	5.5 MM	3.1 MM	□	10.0 MM	□	11.0 MM
H2122	M10 x 1.5	45°	21.0 MM	5.5 MM	3.1 MM	16.0 MM	10.0 MM	11.0 MM	11.0 MM
H2123	M10 x 1.5	90°	18.0 MM	5.5 MM	3.1 MM	20.0 MM	10.0 MM	15.0 MM	11.0 MM



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M12

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

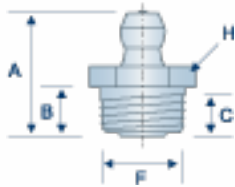
DIN 71412

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

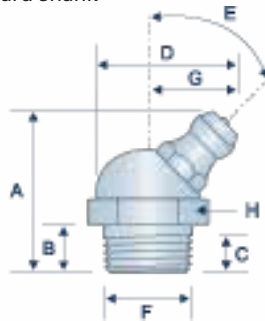
H2142

Straight
M12 x 1.0 Taper Thread
Standard Shank



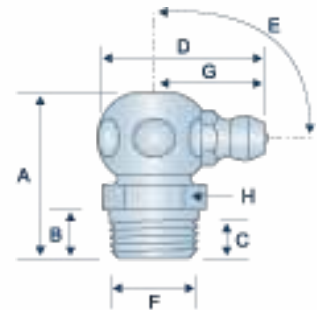
H2143

45° Angle
M12 x 1.0 Taper Thread
Standard Shank



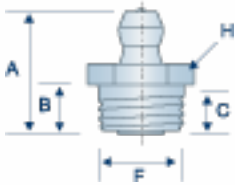
H2144

90° Angle
M12 x 1.0 Taper Thread
Standard Shank



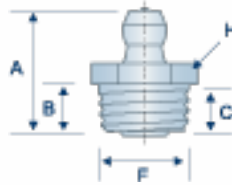
H2145

Straight
M12 x 1.25 Taper Thread
Standard Shank



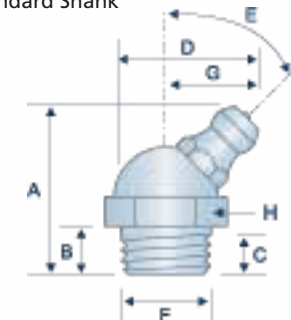
H2124

Straight
M12 x 1.5 Taper Thread
Standard Shank



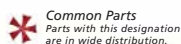
H2125

45° Angle
M12 x 1.5 Taper Thread
Standard Shank



✚ AVAILABLE IN 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)
H2142	M12 x 1.0	STRAIGHT	17.5 MM	6.5 MM	3.1 MM	□	12.0 MM	□	14.0 MM
H2143	M12 x 1.0	45°	22.5 MM	6.5 MM	3.1 MM	19.0 MM	12.0 MM	12.0 MM	14.0 MM
H2144	M12 x 1.0	90°	22.0 MM	6.5 MM	3.1 MM	23.0 MM	12.0 MM	16.0 MM	14.0 MM
H2145	M12 x 1.25	STRAIGHT	17.5 MM	6.5 MM	3.1 MM	□	12.0 MM	□	14.0 MM
H2124	M12 x 1.5	STRAIGHT	17.5 MM	6.5 MM	3.1 MM	□	12.0 MM	□	14.0 MM
H2125	M12 x 1.5	45°	22.5 MM	6.5 MM	3.1 MM	19.0 MM	12.0 MM	12.0 MM	14.0 MM



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M12 & M16

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

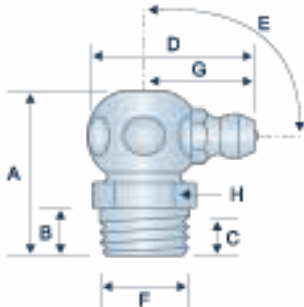
DIN 71412

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

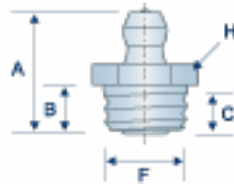
H2126

90° Angle
M12 x 1.5 Taper Thread
Standard Shank



H2148

Straight
M12 x 1.75 Taper Thread
Standard Shank



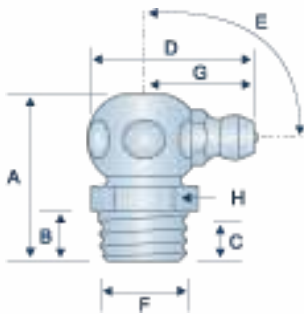
H2149

45° Angle
M12 x 1.75 Taper Thread
Standard Shank



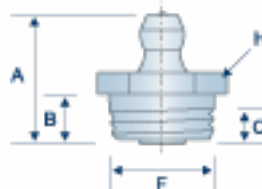
H2150

90° Angle
M12 x 1.75 Taper Thread
Standard Shank



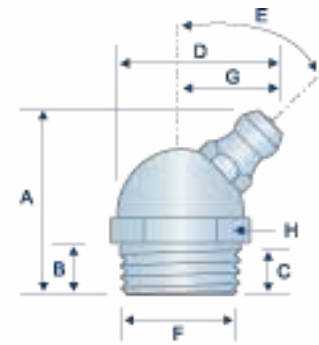
H2151

Straight
M16 x 1.5 Taper Thread
Standard Shank



H2152

45° Angle
M16 x 1.5 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)
H2126	M12 x 1.5	90°	22.0 MM	6.5 MM	3.1 MM	23.0 MM	12.0 MM	16.0 MM	14.0 MM
H2148	M12 x 1.75	STRAIGHT	17.5 MM	6.5 MM	3.1 MM		12.0 MM		14.0 MM
H2149	M12 x 1.75	45°	22.5 MM	6.5 MM	3.1 MM	19.0 MM	12.0 MM	12.0 MM	14.0 MM
H2150	M12 x 1.75	90°	22.0 MM	6.5 MM	3.1 MM	23.0 MM	12.0 MM	16.0 MM	14.0 MM
H2151	M16 x 1.5	STRAIGHT	18.0 MM	7.0 MM	4.0 MM		16.0 MM		17.0 MM
H2152	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



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DRIVE TYPE - PLAIN SHANK

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

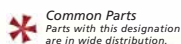
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2500 Straight Drive Type ≈ 5 mm Drill Size Plain Shank</p>	<p>H2506 Straight Drive Type ≈ 6 mm Drill Size Plain Shank</p>	<p>H2507 45° Angle Drive Type ≈ 6 mm Drill Size Plain Shank</p>	<p>H2508 90° Angle Drive Type ≈ 6 mm Drill Size Plain Shank</p>
<p>H2503 Straight Drive Type ≈ 8 mm Drill Size Plain Shank</p> <p><i>GC00544</i></p>	<p>H2509 Straight Drive Type ≈ 10 mm Drill Size Plain Shank</p>	<p>H2960 45° Angle Drive Type ≈ 10 mm Drill Size Plain Shank</p>	<p>H2961 90° Angle Drive Type ≈ 10 mm Drill Size Plain Shank</p>

ITEM #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
H2500	≈ 5.0 MM DRILL	STRAIGHT	15.0 MM	5.5 MM	□	□	8.0 MM	YES
H2506	≈ 6.0 MM DRILL	STRAIGHT	15.0 MM	5.5 MM	□	□	8.0 MM	YES
H2507	≈ 6.0 MM DRILL	45°	20.2 MM	5.5 MM	15.0 MM	10.0 MM	9.0 MM SQ.	YES
H2508	≈ 6.0 MM DRILL	90°	18.0 MM	5.5 MM	18.0 MM	14.0 MM	9.0 MM SQ.	YES
H2503	≈ 8.0 MM DRILL	STRAIGHT	14.7 MM	5.3 MM	□	□	10.0 MM	YES
H2954	≈ 8.0 MM DRILL	45°	20.2 MM	5.5 MM	15.0 MM	10.0 MM	9.0 MM SQ.	YES
H2955	≈ 8.0 MM DRILL	90°	18.0 MM	5.5 MM	18.0 MM	14.0 MM	9.0 MM SQ.	YES
H2509	≈ 10.0 MM DRILL	STRAIGHT	15.0 MM	5.5 MM	□	□	12.0 MM	YES
H2960	≈ 10.0 MM DRILL	45°	20.5 MM	5.5 MM	16.0 MM	10.0 MM	11.0 MM SQ.	YES
H2961	≈ 10.0 MM DRILL	90°	18.0 MM	5.5 MM	20.0 MM	15.0 MM	11.0 MM SQ.	YES



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ITEMS ARE NOT PICTURED.

REVISED 06-11

THREAD FORMING

EXCEEDS 12 HR SALT SPRAY,
8,000 PSI MAX PRESSURE.

DIN 71412

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2206 Straight S6 x 1.0 Thread Forming Standard Shank</p>	<p>H2207 45° Angle S6 x 1.0 Thread Forming Standard Shank</p>	<p>H2208 90° Angle S6 x 1.0 Thread Forming Standard Shank</p>	<p>H2203 Straight S8 x 1.0 Thread Forming Standard Shank</p> <p>369569</p>
<p>H2204 45° Angle S8 x 1.0 Thread Forming Standard Shank</p>	<p>H2205 90° Angle S8 x 1.0 Thread Forming Standard Shank</p>	<p>H2209 Straight S10 x 1.0 Thread Forming Standard Shank</p>	<p>H2210 45° Angle S10 x 1.0 Thread Forming Standard Shank</p>

ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
H2206	S6 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	□	7.0 MM
H2207	S6 x 1.0	45°	20.2 MM	5.5 MM	3.7 MM	15.0 MM	10.0 MM	9.0 MM
H2208	S6 x 1.0	90°	18.0 MM	5.5 MM	3.7 MM	18.0 MM	14.0 MM	9.0 MM
H2203	S8 x 1.0	STRAIGHT	15.0 MM	5.5 MM	3.7 MM	□	□	9.0 MM
H2204	S8 x 1.0	45°	20.2 MM	5.5 MM	3.7 MM	15.0 MM	10.0 MM	9.0 MM
H2205	S8 x 1.0	90°	18.0 MM	5.5 MM	3.7 MM	18.0 MM	14.0 MM	9.0 MM
H2209	S10 x 1.0	STRAIGHT	15.0 MM	5.5 MM	3.7 MM	□	□	11.0 MM
H2210	S10 x 1.0	45°	20.5 MM	5.5 MM	3.7 MM	16.0 MM	11.0 MM	11.0 MM
H2211	S10 x 1.0	90°	18.0 MM	5.5 MM	3.7 MM	20.0 MM	15.0 MM	11.0 MM

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

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BUTTON HEAD

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

DIN 3404

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 imperial button head fittings.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2303 Button Head - Standard M8 x 1.0 Parallel Thread Ball Check</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2304 Button Head - Standard M8 x 1.25 Parallel Thread Ball Check</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2309 Button Head - Standard M10 x 1.0 Parallel Thread Ball Check</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2315 Button Head - Standard M12 x 1.5 Parallel Thread Ball Check</p> <p>✦ AVAILABLE IN STAINLESS</p>
<p>H2316 Button Head - Standard M12 x 1.75 Parallel Thread Ball Check</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2319 Button Head - Standard M14 x 1.5 Parallel Thread Ball Check</p>	<p>H2323 Button Head - Standard M16 x 1.5 Parallel Thread Ball Check</p>	<p>H2326 Button Head - Heavy Duty M16 x 1.5 Parallel Thread Ball Check</p> <p>HEAVY DUTY BUTTON HEAD</p>

ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
H2306	M6 x 1.0	17.0 MM	6.0 MM	3.7 MM	6.0 MM	17.0 MM	BALL CHECK
H2303	M8 x 1.0	17.0 MM	6.0 MM	3.7 MM	7.9 MM	17.0 MM	BALL CHECK
H2304	M8 x 1.25	17.0 MM	6.0 MM	3.7 MM	7.9 MM	17.0 MM	BALL CHECK
H2309	M10 x 1.0	17.0 MM	6.0 MM	3.7 MM	9.8 MM	17.0 MM	BALL CHECK
H2311	M10 x 1.5	17.0 MM	6.0 MM	3.7 MM	9.8 MM	17.0 MM	BALL CHECK
H2315	M12 x 1.5	17.0 MM	6.0 MM	3.7 MM	11.8 MM	17.0 MM	BALL CHECK
H2316	M12 x 1.75	17.0 MM	6.0 MM	3.7 MM	11.2 MM	17.0 MM	BALL CHECK
H2319	M14 x 1.5	17.0 MM	6.0 MM	3.7 MM	13.7 MM	17.0 MM	BALL CHECK
H2323	M16 x 1.5	18.0 MM	7.0 MM	4.0 MM	15.6 MM	17.0 MM	BALL CHECK
H2326	M16 x 1.5	21.0 MM	7.0 MM	4.0 MM	15.6 MM	22.0 MM	BALL CHECK



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ITEMS ARE NOT PICTURED.

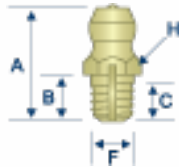
REVISED 06-11

PRESSURE & FLOW CONTROL

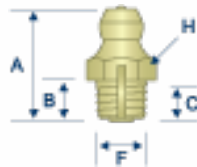
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

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.

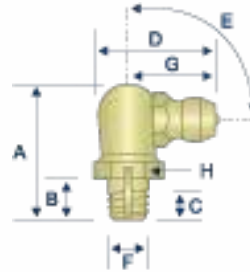
H2930
Straight Safety Vent
M6 x 1.0 Taper Thread
Standard Shank



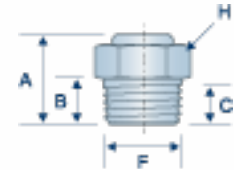
H2931
Straight Safety Vent
M8 x 1.0 Taper Thread
Standard Shank



H2932
90° Angle Safety Vent
M6 x 1.0 Taper Thread
Standard Shank



H47900
Relief - Top Vent
M10 x 1.0 Taper Thread
Opening Range 70 psi



FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

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)
H2930 *	M6 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	6.0 MM	□	7.0 MM
H2931 *	M8 x 1.0	STRAIGHT	16.0 MM	5.5 MM	3.7 MM	□	8.0 MM	□	9.0 MM
H2932	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
H47900	M10 x 1.0	STRAIGHT	11.0 MM	6.0 MM	5.5 MM	□	10.0 MM	□	11.0 MM

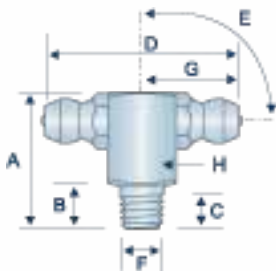
DUAL NIPPLES

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

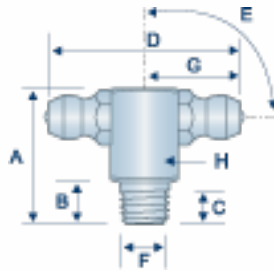
DIN 71412

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.

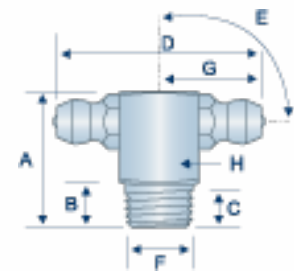
H2X2108
90° Angle
M6 x 1.0 Taper Thread
Dual Nipples



H2X2105
90° Angle
M8 x 1.0 Taper Thread
Dual Nipples



H2X2111
90° Angle
M10 x 1.0 Taper Thread
Dual Nipples



ITEM #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	SQUARE (H)
H2X2108	M6 x 1.0	90° □ (x2)	18.0 MM	5.5 MM	3.7 MM	29.0 MM	6.0 MM	14.0 MM	9.0 MM
H2X2105	M8 x 1.0	90° □ (x2)	18.0 MM	5.5 MM	3.7 MM	29.0 MM	8.0 MM	14.0 MM	9.0 MM
H2X2111	M10 x 1.0	90° □ (x2)	18.0 MM	5.5 MM	3.7 MM	30.0 MM	10.0 MM	15.0 MM	11.0 MM

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TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

FLUSH TYPE

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

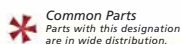
DIN 3405

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>H2406 Straight Flush Type M6 x 1.0 Parallel Thread Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2407 45° Angle Flush Type M6 x 1.0 Taper Thread Standard Shank</p>	<p>H2408 90° Angle Flush Type M6 x 1.0 Taper Thread Standard Shank</p>	<p>H2403 Straight Flush Type M8 x 1.0 Parallel Thread Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>
<p>H2412 Straight Flush Type M8 x 1.25 Parallel Thread Standard Shank</p>	<p>H2409 Straight Flush Type M10 x 1.0 Parallel Thread Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2421 Straight Flush Type M10 x 1.5 Parallel Thread Standard Shank</p>	<p>H2424 Straight Flush Type M12 x 1.5 Parallel Thread Standard Shank</p>

ITEM #	THREAD	THREAD TYPE	ANGLE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H2406	M6 x 1.0	PARALLEL	STRAIGHT	8.5 MM	5.5 MM	3.7 MM	6.0 MM	7.0 MM
H2407	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.
H2403	M8 x 1.0	PARALLEL	STRAIGHT	9.5 MM	6.5 MM	3.7 MM	7.9 MM	9.0 MM
H2404	M8 x 1.0	TAPER	45°	16.0 MM	5.5 MM	3.7 MM	8.0 MM	9.0 MM SQ.
H2405	M8 x 1.0	TAPER	90°	18.0 MM	5.5 MM	3.7 MM	8.0 MM	9.0 MM SQ.
H2412	M8 x 1.25	PARALLEL	STRAIGHT	9.5 MM	6.5 MM	3.7 MM	7.9 MM	9.0 MM
H2409	M10 x 1.0	PARALLEL	STRAIGHT	9.5 MM	6.5 MM	3.7 MM	9.8 MM	11.0 MM
H2410	M10 x 1.0	TAPER	45°	16.5 MM	5.5 MM	3.7 MM	10.0 MM	11.0 MM SQ.
H2411	M10 x 1.0	TAPER	90°	18.0 MM	5.5 MM	3.7 MM	10.0 MM	11.0 MM SQ.
H2421	M10 x 1.5	PARALLEL	STRAIGHT	9.5 MM	6.5 MM	3.7 MM	9.8 MM	11.0 MM
H2424	M12 x 1.5	PARALLEL	STRAIGHT	14.0 MM	9.5 MM	4.2 MM	11.8 MM	14.0 MM



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REVISED 06-11

BALL TYPE

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

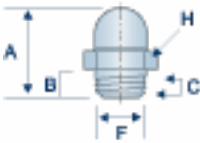
WAS **DIN 3402**

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

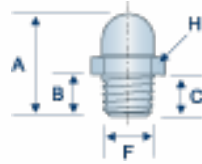
H2902

Straight Ball Type
M6 x 0.75 Taper Thread
Short Shank



H2899

Straight Ball Type
M6 x 1.0 Taper Thread
Standard Shank



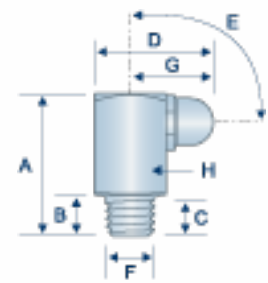
H2907

45° Angle Ball Type
M6 x 1.0 Taper Thread
Standard Shank



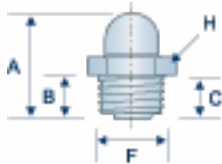
H2908

90° Angle Ball Type
M6 x 1.0 Taper Thread
Standard Shank



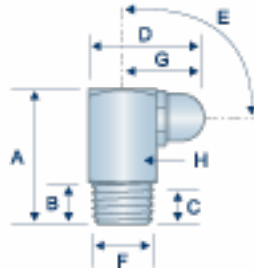
H2912

Straight Ball Type
M8 x 1.0 Taper Thread
Standard Shank



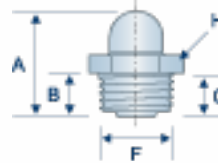
H2905

90° Angle Ball Type
M8 x 1.0 Taper Thread
Standard Shank



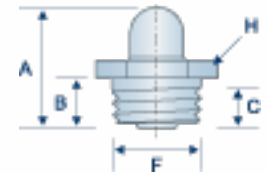
H2909

Straight Ball Type
M10 x 1.0 Taper Thread
Standard Shank

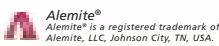


H2924

Straight Ball Type
M12 x 1.5 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)
H2902	M6 x 0.75	STRAIGHT	11.5 MM	2.9 MM	2.0 MM	□	6.0 MM	□	7.0 MM
H2899	M6 x 1.0	STRAIGHT	14.0 MM	5.5 MM	3.7 MM	□	6.0 MM	□	7.0 MM
H2907	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.
H2908	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.
H2912	M8 x 1.0	STRAIGHT	14.0 MM	5.5 MM	3.7 MM	□	8.0 MM	□	9.0 MM
H2904	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.
H2905	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.
H2909	M10 x 1.0	STRAIGHT	14.0 MM	5.5 MM	3.7 MM	□	10.0 MM	□	11.0 MM
H2910	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.
H2911	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.
H2924	M12 x 1.5	STRAIGHT	16.0 MM	6.5 MM	3.7 MM	□	12.0 MM	□	14.0 MM



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BRITISH - THREAD

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

DIN 71412

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

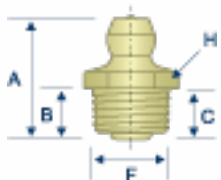
H2600

Straight
1/8"-28 BSPT



H2610

Straight
R 1/8"



AVAILABLE IN STAINLESS

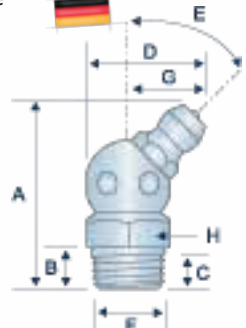
H2601

45° Angle
1/8"-28 BSPT



H2611

45° Angle
R 1/8"



AVAILABLE IN STAINLESS

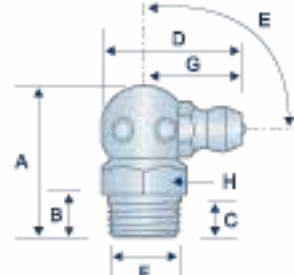
H2602

90° Angle
1/8"-28 BSPT



H2612

90° Angle
R 1/8"



AVAILABLE IN STAINLESS

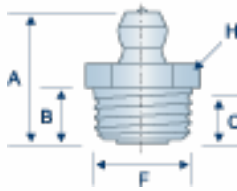
H2603

Straight
1/4"-19 BSPT



H2613

Straight
R 1/4"



AVAILABLE IN STAINLESS

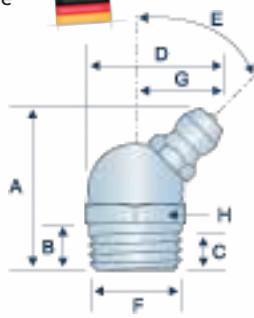
H2604

45° Angle
1/4"-19 BSPT



H2614

45° Angle
R 1/4"



AVAILABLE IN STAINLESS

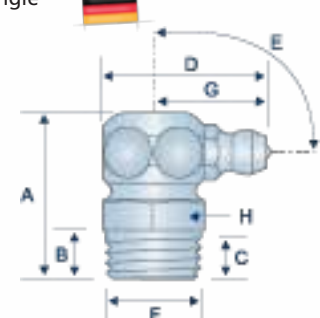
H2605

90° Angle
1/4"-19 BSPT



H2615

90° Angle
R 1/4"



AVAILABLE IN 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)
H2600 *	1/8"-28	STRAIGHT	.63"	.22"	.15"	□	.38"	□	11.0 MM
H2601 *	1/8"-28	45°	.98"	.22"	.15"	.61"	.38"	.43"	11.0 MM
H2602 *	1/8"-28	90°	.79"	.22"	.15"	.75"	.38"	.55"	11.0 MM
H2603	1/4"-19	STRAIGHT	.69"	.26"	.15"	□	.41"	□	14.0 MM
H2604	1/4"-19	45°	.89"	.26"	.15"	.75"	.41"	.41"	14.0 MM
H2605	1/4"-19	90°	.81"	.26"	.15"	.91"	.41"	.63"	14.0 MM

Common Parts
Parts with this designation are in wide distribution.

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BRITISH - 3/8" - 19 BSPT

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

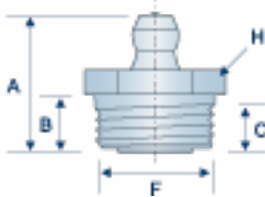
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

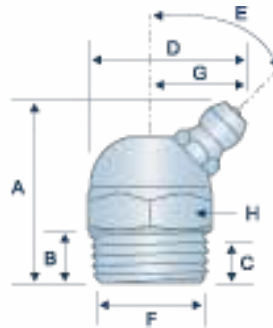
H2606

Straight
3/8"-19 BSPT
Standard Shank



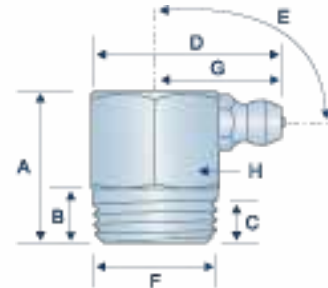
H2607

45° Angle
3/8"-19 BSPT
Standard Shank



H2608

90° Angle
3/8"-19 BSPT
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)
H2606	3/8"-19	STRAIGHT	.71"	.28"	.16"	□	.63"	□	17.0 MM
H2607	3/8"-19	45°	1.00"	.28"	.16"	.87"	.63"	.51"	17.0 MM
H2608	3/8"-19	90°	.79"	.28"	.16"	1.06"	.63"	.75"	17.0 MM

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.



Common Parts
Parts with this designation are in wide distribution.



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BRITISH - FINE THREAD

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

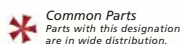
DIN 71412

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

<p>H2700 Straight 1/4"-26 BSF Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2701 45° Angle 1/4"-26 BSF Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>	<p>H2702 90° Angle 1/4"-26 BSF Standard Shank</p> <p>✦ AVAILABLE IN STAINLESS</p>
<p>H2703 Straight 5/16"-22 BSF Standard Shank</p>	<p>H2704 45° Angle 5/16"-22 BSF Standard Shank</p>	<p>H2705 90° Angle 5/16"-22 BSF Standard Shank</p>

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)
H2700	1/4"-26	STRAIGHT	.59"	.22"	.15"	□	.25"	□	7.0 MM
H2701	1/4"-26	45°	.93"	.22"	.15"	.59"	.25"	.39"	9.0 MM
H2702	1/4"-26	90°	.71"	.22"	.15"	.67"	.25"	.51"	9.0 MM
H2703	5/16"-22	STRAIGHT	.59"	.22"	.15"	□	.31"	□	9.0 MM
H2704	5/16"-22	45°	.93"	.22"	.15"	.59"	.31"	.39"	9.0 MM
H2705	5/16"-22	90°	.71"	.22"	.15"	.67"	.31"	.51"	9.0 MM



Common Parts
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BRITISH - 3/8"-20 BSF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

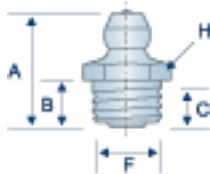
DIN 71412

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

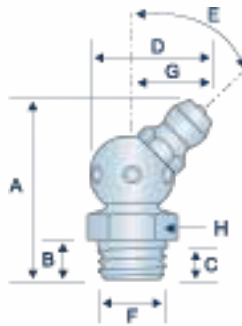
H2706

Straight
3/8"-20 BSF
Standard Shank



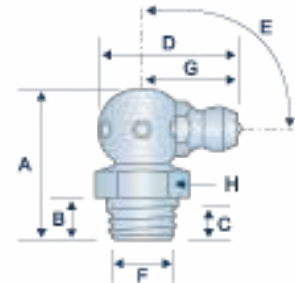
H2707

45° Angle
3/8"-20 BSF
Standard Shank



H2708

90° Angle
3/8"-20 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)
H2706	3/8"-20	STRAIGHT	.59"	.22"	.15"	□	.31"	□	11.0 MM
H2707	3/8"-20	45°	.98"	.22"	.15"	.61"	.31"	.43"	11.0 MM
H2708	3/8"-20	90°	.79"	.22"	.15"	.75"	.31"	.55"	11.0 MM

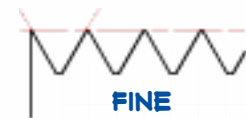
FINE THREAD ASSESSMENT

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



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BRITISH - BUTTON HEAD

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

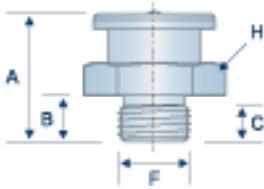
DIN 3404

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 H2853 is a heavy duty button head fitting with a large 22.0 mm head for use in heavy-duty applications.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

H2800

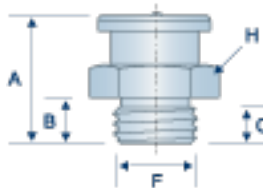
Button Head - Standard
1/8" -28 BSPP
Ball Check



AVAILABLE IN STAINLESS

H2803

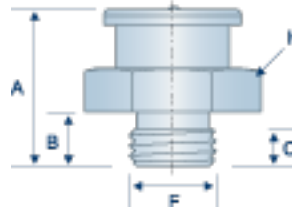
Button Head - Standard
1/4" -19 BSPP
Ball Check



AVAILABLE IN STAINLESS

H2853

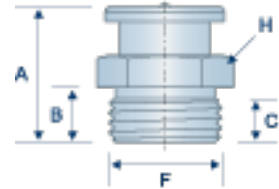
Button Head - Heavy Duty
1/4" -19 BSPP
Ball Check



HEAVY DUTY BUTTON HEAD

H2806

Button Head - Standard
3/8" -19 BSPP
Ball Check



AVAILABLE IN STAINLESS

ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
H2800	1/8"-28	.61"	.24"	.15"	.38"	17.0 MM	BALL CHECK
H2803	1/4"-19	.61"	.24"	.15"	.41"	17.0 MM	BALL CHECK
H2853	1/4"-19	.83"	.28"	.16"	.41"	22.0 MM	BALL CHECK
H2806	3/8"-19	.71"	.28"	.16"	.63"	17.0 MM	BALL CHECK

BRITISH - FLUSH TYPE

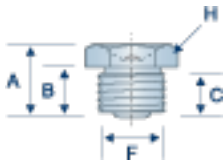
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

DIN 3405

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.

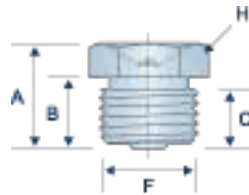
H2900

Straight Flush Type
1/8" -28 BSPP



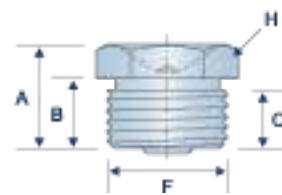
H2903

Straight Flush Type
1/4" -19 BSPP



H2906

Straight Flush Type
3/8" -19 BSPP



ITEM #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
H2900	1/8"-28	.31"	.26"	.15"	.38"	11.0 MM
H2903	1/4"-19	.55"	.31"	.17"	.41"	14.0 MM
H2906	3/8"-19	.55"	.31"	.17"	.63"	17.0 MM

Common Parts
Parts with this designation are in wide distribution.

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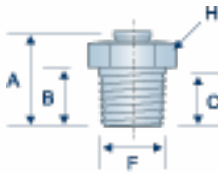
BRITISH - RELIEF VENT

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

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.


HB317400

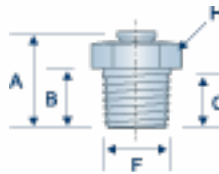
Relief- Top Vent 
1/8"-28 BSPT
Opening Range 0.25-1 psi



 317400-E


HB47200

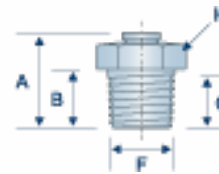
Relief- Top Vent 
1/8"-28 BSPT
Opening Range 1-5 psi



 47200-E

HB47100

Relief- Top Vent 
1/8"-28 BSPT
Opening Range 45-80 psi



 47100-E


ITEM #	THREAD	RELIEF PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
HB317400	1/8"-28	0.25-1 PSI	.50"	.30"	.22"	.38"	7/16"
HB47200	1/8"-28	1-5 PSI	.50"	.30"	.22"	.38"	7/16"
HB47100	1/8"-28	45-80 PSI	.50"	.30"	.22"	.38"	7/16"

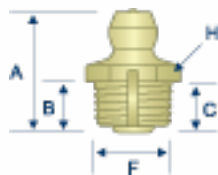
BRITISH - SAFETY VENT

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.


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.

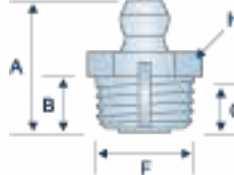
H2810

Straight Safety Vent 
1/8"-28 BSPT




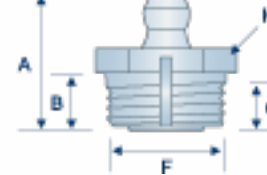
H2811

Straight Safety Vent 
1/4"-19 BSPT



H2812

Straight Safety Vent 
3/8"-19 BSPT



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)
H2810	1/8"-28	STRAIGHT	.63"	.22"	.15"	□	.38"	□	11.0 MM
H2811	1/4"-19	STRAIGHT	.69"	.26"	.15"	□	.41"	□	14.0 MM
H2812	3/8"-19	STRAIGHT	.71"	.28"	.16"	□	.63"	□	17.0 MM



ABOUT THE COMPANY



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 Allyn-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.



STEWART WARNER™ CHICAGO HEADQUARTERS



FORD™ MODEL T

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.

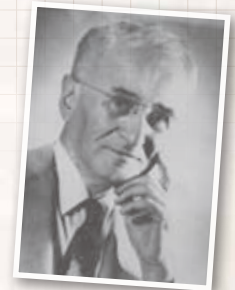
**G.L. HUYETT IS AN AUTHORIZED VOLUME DISTRIBUTOR
FOR ALEMITE® CORPORATION**



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.



OSCAR ULYSSES ZERK

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's® position as a leader in the field.



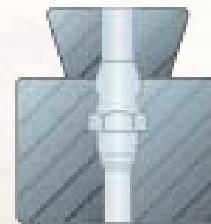
CORDLESS GREASE GUN

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.

AEROSPACE FITTINGS



ALEMITE® IS ONE OF A HANDFUL OF MANUFACTURER THAT CAN MEET THE STRINGENT GUIDELINES OF SAE AS35411, WHICH INCLUDES A BATTERY OF TESTING AND CERTIFICATION. SEE PAGES 236-237 FOR MORE DETAILS.



CHAPS™ SYSTEM

ALEMITE'S® PATENTED COLD HEADER AUTOMATION PRODUCTION SYSTEM™ (CHAPS™), PRODUCES PARTS THAT ARE STRONGER AND MORE UNIFORM IN SIZE THAN CONVENTIONALLY TURNED PARTS.

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'S® INNOVATION. GO TO WWW.ALEMITECARBONSHIELD.COM FOR MORE INFORMATION.



CARBON SHIELD™



EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

1/4"-28 SAE-LT

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 DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>1641-B</p> <p>Straight 1/4"-28 Taper Thread Standard Shank</p> <p>GM 211287 GM/CH 9411021 F 87907-98 + AVAILABLE IN STAINLESS + AVAILABLE IN MONEL®</p>	<p>1652-B</p> <p>Straight 1/4"-28 Taper Thread Long Shank</p> <p>GM 213326 GM/CH 9411028</p>	<p>1680-B</p> <p>Straight 1/4"-28 Taper Thread Extra Long Shank</p> <p>GM 211288 GM/CH 9411029</p>	<p>3014-B</p> <p>Straight 1/4"-28 Taper Thread Ultra Long Shank</p>
<p>1698-B</p> <p>Straight 1/4"-28 Taper Thread Super Long Shank</p> <p>GM 128274</p>	<p>369624</p> <p>Straight 1/4"-28 Taper Thread Standard Shank</p>	<p>369605</p> <p>Straight 1/4"-28 Taper Thread Short Shank</p>	<div style="border: 1px solid black; padding: 10px; background-color: #f0f0f0;"> <p>SPECIAL PARTS</p> <p>LOOKING FOR SOMETHING SPECIAL?</p> <p>CALL THE G.L. HUYETT SALES TEAM & WE WILL FIND IT FOR YOU!</p> </div>

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)
1641-B	A1641	1/4"-28	STRAIGHT	.55"	.19"	.11"	□	.25"	□	5/16"
1652-B	A1652	1/4"-28	STRAIGHT	.69"	.36"	.20"	□	.25"	□	5/16"
1680-B	A1680	1/4"-28	STRAIGHT	.91"	.63"	.27"	□	.25"	□	5/16"
3014-B	A3014	1/4"-28	STRAIGHT	1.63"	1.00"	.20"	□	.25"	□	5/16"
1698-B	A1698	1/4"-28	STRAIGHT	1.13"	.78"	.20"	□	.25"	□	5/16"
369624	A369624	1/4"-28	STRAIGHT	.55"	.19"	.15"	□	.25"	□	5/16"
369605	A369605	1/4"-28	STRAIGHT	.55"	.16"	.09"	□	.25"	□	5/16"

Common Parts
Parts with this designation are in wide distribution.

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REVISED 06-11

1/4"-28 SAE-LT

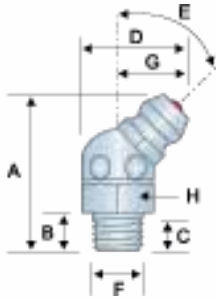
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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

1637-B1

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

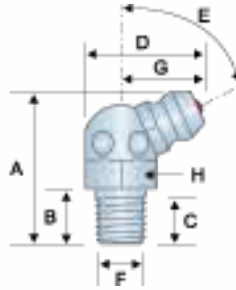


GM 214508
GM/CH 9411030

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

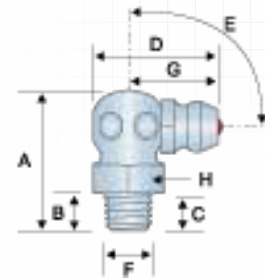
3010-B1

65° Angle
1/4"-28 Taper Thread
Long Shank



1911-B1

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

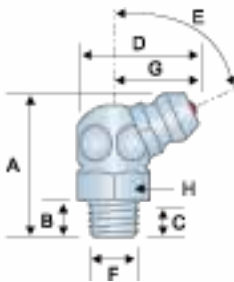


GM 214510
GM/CH 9411032

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

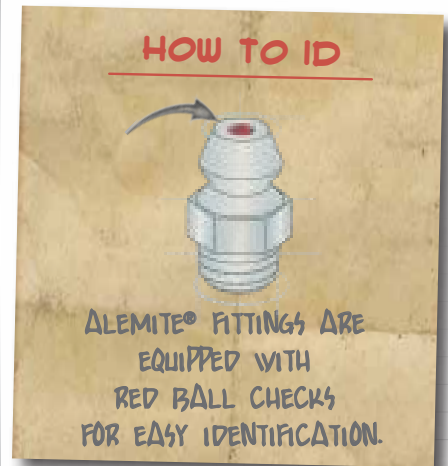
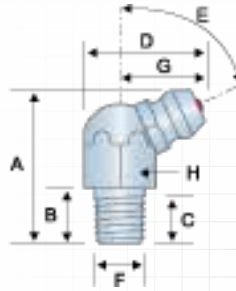
369620

65° Angle
1/4"-28 Taper Thread
Standard Shank



369575

65° Angle
1/4"-28 Taper Thread
Long Shank



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)
1637-B1 ✦	A1637	1/4"-28	45°	.81"	.20"	.11"	.58"	.25"	.39"	3/8"
3010-B1	A3010	1/4"-28	65°	.78"	.30"	.20"	.66"	.25"	.47"	3/8"
1911-B1 ✦	A1911	1/4"-28	90°	.75"	.20"	.11"	.69"	.25"	.50"	3/8"
369620	A369620	1/4"-28	65°	.69"	.19"	.11"	.66"	.25"	.47"	3/8"
369575	A369575	1/4"-28	65°	.78"	.31"	.20"	.66"	.25"	.47"	3/8"

✦ Common Parts
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1/8"-27 PTF

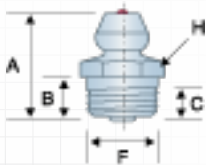
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

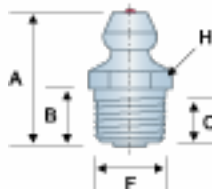
1644-B

Straight
1/8"-27 PTF Spl. Short
Short Shank



1610-BL

Straight
1/8"-27 PTF Spl. Ex. Short
Standard Shank

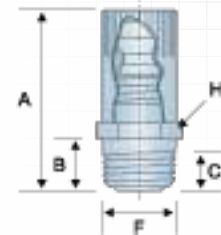


GM 191758
GM/CH 9411010
IH 138332-H



1958

Straight
1/8"-27 PTF Spl. Ex. Short
Standard Shank

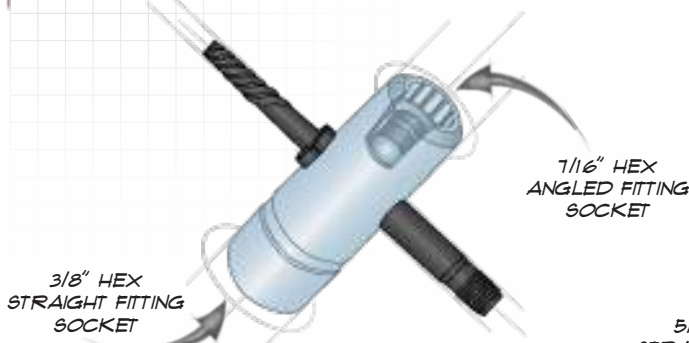


GM 190811 INCLUDES DUST CAP

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)
1644-B	A1644	1/8"-27	STRAIGHT	.56"	.23"	.15"	□	.39"	□	7/16"
1610-BL	A1610	1/8"-27	STRAIGHT	.69"	.30"	.19"	□	.39"	□	7/16"
1958	A1958	1/8"-27	STRAIGHT	.91"	.25"	.15"	□	.39"	□	7/16"

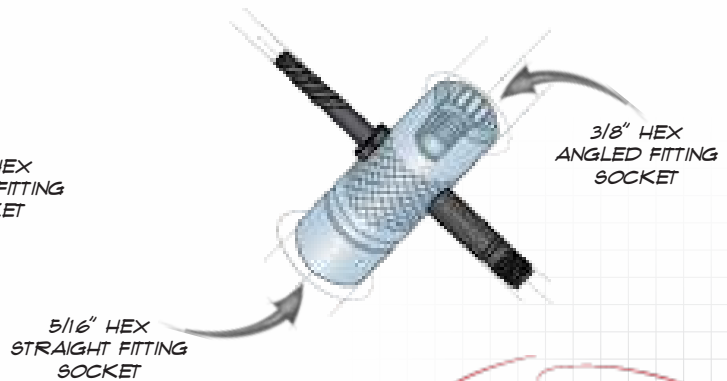
EASY OUT TOOLS

ALEMITE® # B315791
1/8"-27 NPTF

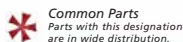


ORDER AS:
A315791

ALEMITE® # B315790
1/4"-28 SAE-LT



ORDER AS:
A315790



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1/8"-27 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

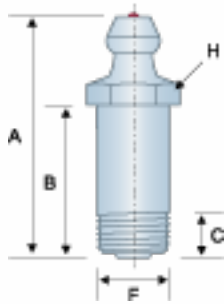
Extended shanks are often necessary to ease maintenance of recessed greasing points. Grease fitting extensions (page 208) may also be used to extend grease fitting shanks.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1607-B



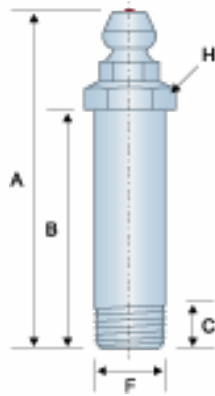
Straight
1/8"-27 PTF Spl. Short
Extra Long Shank



GM 211281
GM/CH 9411011

1669-B

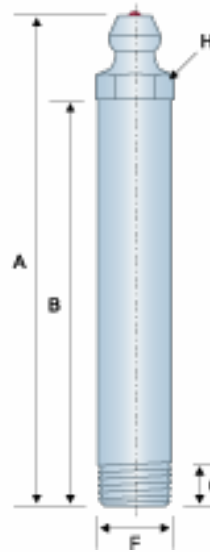
Straight
1/8"-27 PTF Spl. Short
Extra Long Shank



GM 213347
GM/CH 9411012

1684-B

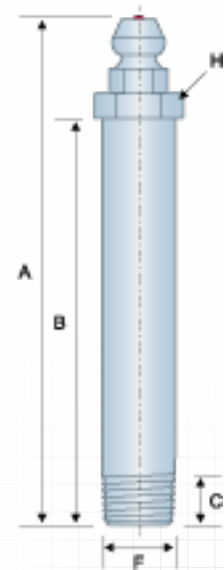
Straight
1/8"-27 PTF Spl. Short
Super Long Shank



GM 213348
GM/CH 9411013

369599

Straight
1/8"-27 PTF Spl. Short
Super Long Shank



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)
1607-B	A1607	1/8"-27	STRAIGHT	1.25"	.78"	.19"	□	.39"	□	7/16"
1669-B	A1669	1/8"-27	STRAIGHT	1.75"	1.27"	.19"	□	.39"	□	7/16"
1684-B	A1684	1/8"-27	STRAIGHT	2.63"	2.19"	.19"	□	.39"	□	3/8"
369599	A369599	1/8"-27	STRAIGHT	2.63"	2.19"	.19"	□	.39"	□	7/16"

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EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

1/8"-27 PTF

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1611-B

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

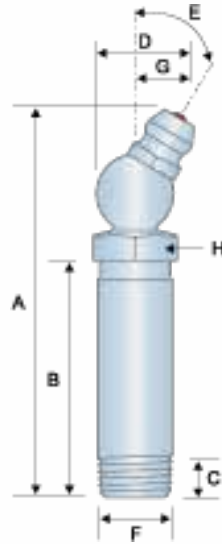


GM 211282
GM/CH 9411014

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

1638-B

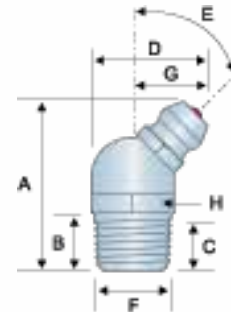
30° Angle
1/8"-27 PTF Spl. Short
Extra Long Shank



GM 213321
GM/CH 9411015

1688-B

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



GM 211283
GM/CH 9411016
IH 80717



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)
1611-B	A1611	1/8"-27	30°	.91"	.30"	.19"	.56"	.39"	.34"	7/16"
1638-B	A1638	1/8"-27	30°	2.09"	1.25"	.19"	.54"	.39"	.34"	7/16"
1688-B ✦	A1688	1/8"-27	45°	.89"	.30"	.19"	.64"	.39"	.42"	7/16"



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1/8"-27 PTF

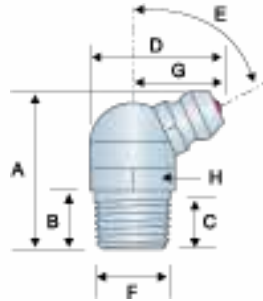
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1612-B

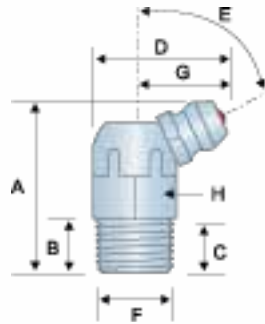
65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



GM 211284
GM/CH 9411017
† AVAILABLE IN STAINLESS
† AVAILABLE IN MONEL®

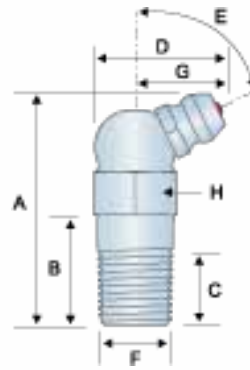
369608

65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



1623-B

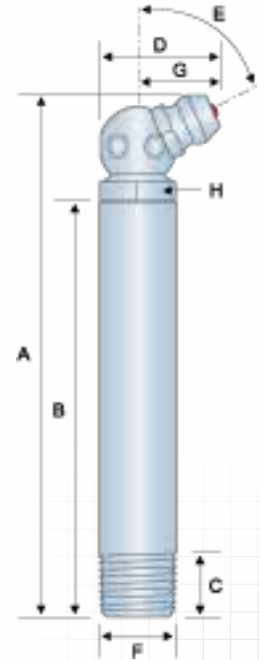
65° Angle
1/8"-27 PTF Spl. Short
Long Shank



GM 213351
GM/CH 9411018

1649-B

65° Angle
1/8"-27 PTF Spl. Short
Super Long Shank



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)
1612-B	A1612	1/8"-27	65°	.84"	.30"	.19"	.72"	.39"	.50"	7/16"
369608	A369608	1/8"-27	65°	.91"	.28"	.19"	.73"	.39"	.51"	7/16"
1623-B	A1623	1/8"-27	65°	1.22"	.56"	.19"	.72"	.39"	.50"	7/16"
1649-B	A1649	1/8"-27	65°	2.75"	2.25"	.19"	.67"	.39"	.48"	3/8"

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EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

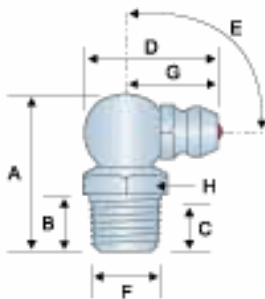
1/8"-27 PTF

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1613-B

90° Angle
1/8"-27 PTF Spl. Short
Standard Shank

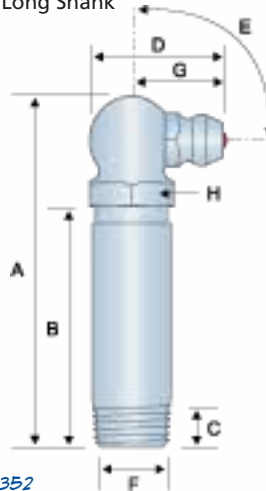


GM 21285
GM/CH 9411019
IH 219-55

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

1606-B

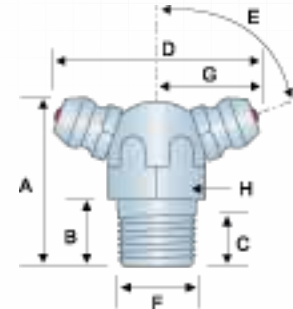
90° Angle
1/8"-27 PTF Spl. Short
Extra Long Shank



GM 213352
GM/CH 9411020

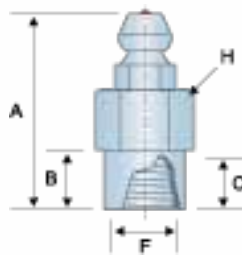
369574

70° Angle
1/8"-27 PTF Spl. Short
Dual Nipples



1618-B

Straight
1/8"-27 NPTF
Female Threads

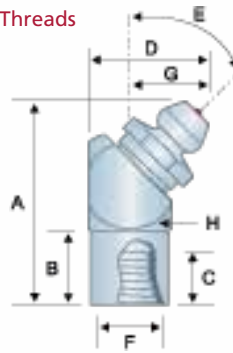


GM 213350
GM/CH 9411026

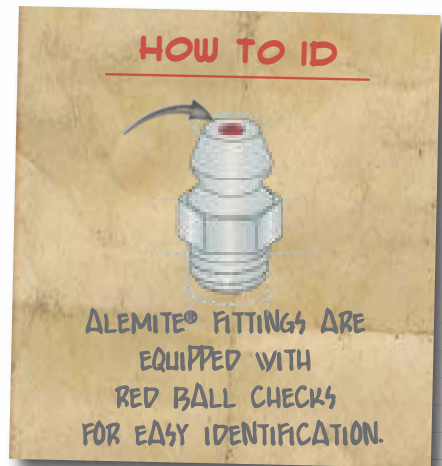
TWO-PIECE DESIGN

1620-B

45° Angle
1/8"-27 NPTF
Female Threads



TWO-PIECE DESIGN



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)
1613-B	* A1613	1/8"-27	90°	.84"	.30"	.19"	.73"	.39"	.51"	7/16"
1606-B	A1606	1/8"-27	90°	1.81"	1.25"	.19"	.76"	.39"	.54"	7/16"
369574	A369574	1/8"-27	70°(x2)	.84"	.22"	.19"	1.16"	.39"	.58"	1/2"
1618-B	* A1618	1/8"-27	STRAIGHT	1.00"	.31"	.28"	□	.39"	□	1/2"
1620-B	A1620	1/8"-27	45°	1.13"	.41"	.28"	.66"	.39"	.44"	7/16" SQ.

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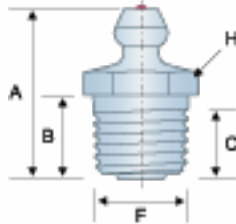
1/4"-18 PTF

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

1621-B

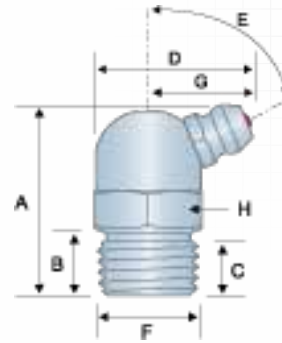
Straight
1/4"-18 PTF Spl. Extra Short
Standard Shank



GM 273349

1629-B

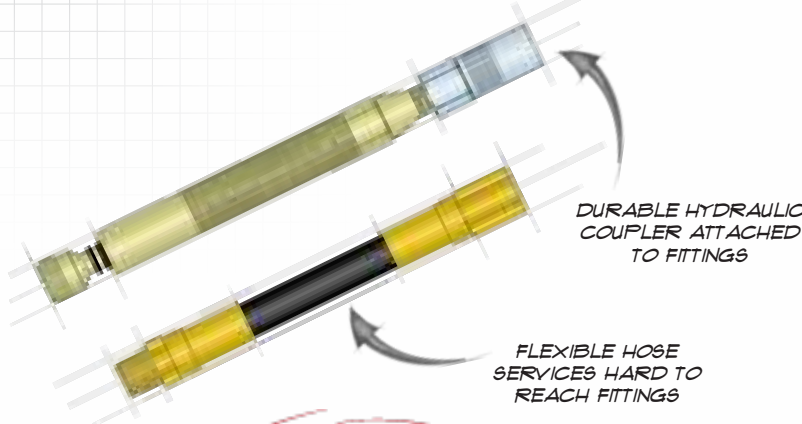
67.5° Angle
1/4"-18 PTF Spl. Extra Short
Standard Shank



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)
1621-B	✱ A1621	1/4"-18	STRAIGHT	.88"	.42"	.19"	□	.52"	□	9/16"
1629-B	✱ A1629	1/4"-18	67.5°	.91"	.34"	.19"	.86"	.52"	.58"	9/16"

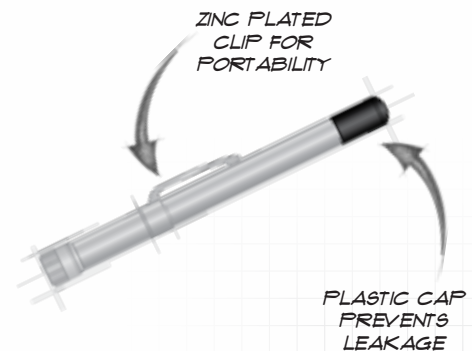
GREASE FITTING CLEANERS

ALEMITE® # 339841
HEAVY DUTY CLEANER



ORDER AS:
A339841

ALEMITE® # 340004
POCKET SIZED CLEANER



ORDER AS:
A340004

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EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

1/4"-28 PARALLEL

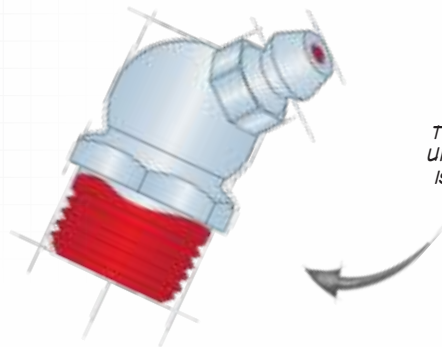
Unlike tapered thread types such as PTF, parallel threaded fittings are not self-sealing, but do thread into standard screw-thread housings. 1/4"-28 UNF fittings are designed to thread into a 1/4"-28 UNF-3B hole. For best results, the use of thread sealant is recommended.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>1792-B</p> <p>Straight 1/4"-28 UNF Standard Shank</p> <p>GM 271291 GM/CH 9411244</p>	<p>369609</p> <p>Straight 1/4"-28 UNF Short Shank</p>	<p>333330</p> <p>Straight 1/4"-28 UNF Standard Shank</p>	<p>1770-BI</p> <p>45° Angle 1/4"-28 UNF Short Shank</p>
--	--	---	--

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)
1792-B	A1792	1/4"-28	STRAIGHT	.52"	.16"	.10"	□	.25"	□	9/32"
369609	A369609	1/4"-28	STRAIGHT	.44"	.13"	.12"	□	.25"	□	5/16"
333330	A333330	1/4"-28	STRAIGHT	.53"	.19"	.12"	□	.25"	□	17/32"
1770-BI	A1770	1/4"-28	45°	.61"	.13"	.11"	.60"	.25"	.41"	3/8"

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

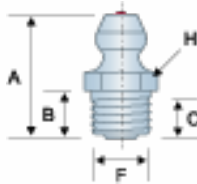
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

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

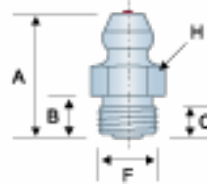
1711-B

Straight
5/16"-24 UNF
Standard Shank



1631-B

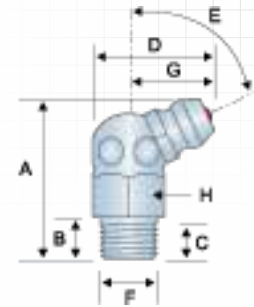
Straight
5/16"-32 UNF
Standard Shank



IH 18541R91

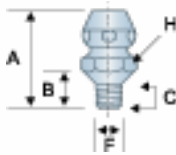
1648-B1

65° Angle
5/16"-32 UNF
Standard Shank



3018

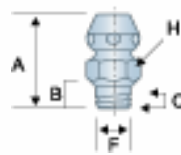
Straight
6-40 UNF
Standard Shank



NO BALL CHECK

369616

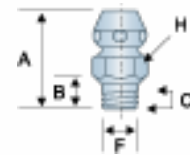
Straight
10-32 UNF
Short Shank



NO BALL CHECK

3016

Straight
10-32 UNF
Standard Shank



NO BALL CHECK

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)
1711-B	* A1711	5/16"-24	STRAIGHT	.66"	.25"	.16"	□	.31"	□	3/8"
1631-B	A1631	5/16"-32	STRAIGHT	.66"	.23"	.14"	□	.31"	□	3/8"
1648-B1	A1648	5/16"-32	65°	.80"	.22"	.11"	.61"	.31"	.48"	3/8"
3018	A3018	6-40	STRAIGHT	.50"	.16"	.12"	□	.13"	□	1/4"
369616	A369616	10-32	STRAIGHT	.41"	.12"	.08"	□	.18"	□	1/4"
3016	A3016	10-32	STRAIGHT	.50"	.13"	.11"	□	.18"	□	1/4"

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THREAD FORMING

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

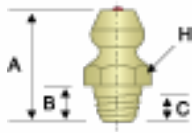
Thread forming threads are made out of case hardened steel. These fittings are designed to be installed by being driven or threaded into an untapped hole, thus eliminating the costly process of tapping. When replacement is needed, standard threaded fittings may be threaded into the formed hole.

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

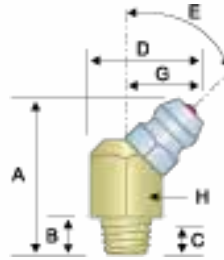
3038-B

Straight
1/4"-28 Thread Forming
Standard Shank



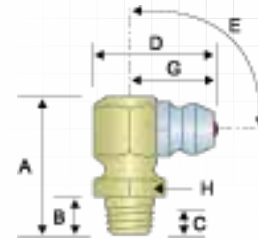
3053-B

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



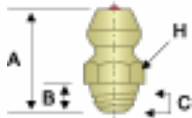
3054-B

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



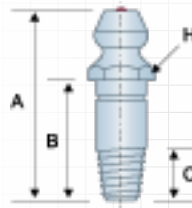
369582

Straight
1/4"-28 Thread Forming
Short Shank



369584

Straight
1/4"-28 Thread Forming
Long Shank



PLEASE NOTE
HOLE SIZES PROVIDED
ARE FOR REFERENCE.
TESTING IS REQUIRED TO ENSURE
RELIABILITY IN THE FIELD.
THREAD FORMING FITTINGS
ARE NOT RECOMMENDED
FOR BRITTLE MATERIALS.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
3038-B	A3038	1/4"-28	STRAIGHT	.58"	.19"	.14"	□	□	5/16"
3053-B	A3053	1/4"-28	45°	.81"	.19"	.14"	.51"	.38"	3/8"
3054-B	A3054	1/4"-28	90°	.75"	.19"	.18"	.66"	.41"	3/8"
369582	A369582	1/4"-28	STRAIGHT	.51"	.15"	.08"	□	□	9/32"
369584	A369584	1/4"-28	STRAIGHT	.91"	.63"	.21"	□	□	5/16"

NOTE: 1/4"-28 APPROXIMATE HOLE SIZE ϕ .230- ϕ .235"



THREAD FORMING

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

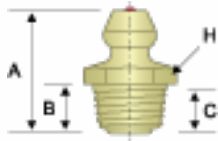
Thread forming fittings, also known as spin-drive, are ideal for high volume assembly line applications. For easy identification, Alemite® angled thread forming grease fittings have zinc clear heads.

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1720-B

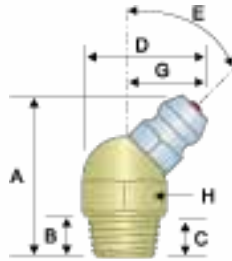
Straight
1/8"-27 Thread Forming
Standard Shank



GM 213321
GM/CH 9411022

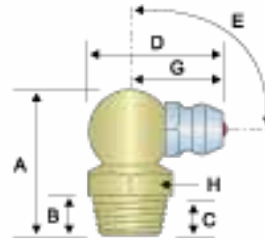
1724-B

45° Angle
1/8"-27 Thread Forming
Standard Shank



1723-B

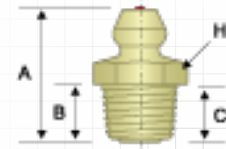
90° Angle
1/8"-27 Thread Forming
Standard Shank



GM 213324
GM/CH 9411025

369579

Straight
1/8"-27 Thread Forming
Long Shank

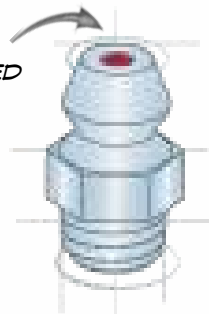


ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
1720-B	A1720	1/8"-27	STRAIGHT	.63"	.24"	.20"	□	□	7/16"
1724-B	A1724	1/8"-27	45°	.83"	.20"	.14"	.64"	.42"	7/16"
1723-B	A1723	1/8"-27	90°	.76"	.20"	.14"	.73"	.51"	7/16"
369579	A369579	1/8"-27	STRAIGHT	.68"	.31"	.21"	□	□	7/16"

NOTE: 1/8"-27 APPROXIMATE HOLE SIZE 0.313-0.380"

HOW TO ID

ALEMITE® FITTINGS ARE EQUIPPED
WITH RED BALL CHECKS FOR
EASY IDENTIFICATION.



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DRIVE TYPE

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>3019</p> <p>Straight Drive Type ≈ 1/8" Drill Size Standard Shank</p> <p>NO BALL CHECK</p>	<p>1736-A</p> <p>Straight Drive Type ≈ 1/8" Drill Size Long Shank</p> <p>GM 271428</p> <p>NO BALL CHECK</p>	<p>3009</p> <p>Straight Drive Type ≈ 3/16" Drill Size Short Shank</p> <p>NO BALL CHECK</p>
<p>3005</p> <p>Straight Drive Type ≈ 3/16" Drill Size Standard Shank</p> <p>NO BALL CHECK</p>	<p>3006</p> <p>Straight Drive Type ≈ 3/16" Drill Size Standard Shank</p> <p>NO BALL CHECK</p>	<p>369591</p> <p>Straight Drive Type ≈ 3/16" Drill Size Short Shank</p> <p>NO BALL CHECK</p>

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
3019	A3019	≈ 1/8" DRILL	STRAIGHT	.41"	.16"	□	□	5/16"	NO
1736-A	A1736	≈ 1/8" DRILL	STRAIGHT	.56"	.25"	□	□	5/16"	NO
3009	A3009	≈ 3/16" DRILL	STRAIGHT	.39"	.09"	□	□	5/16"	NO
3005	A3005	≈ 3/16" DRILL	STRAIGHT	.41"	.11"	□	□	5/16"	NO
3006	A3006	≈ 3/16" DRILL	STRAIGHT	.48"	.22"	□	□	9/32"	NO
369591	A369591	≈ 3/16" DRILL	STRAIGHT	.42"	.13"	□	□	5/16"	NO

DRIVE TOOLS

ALEMITE® # 5253
STRAIGHT DRIVE TOOL



ORDER AS:
A5253

ALEMITE® # 5254-1
ANGLED DRIVE TOOL



ORDER AS:
A52541

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EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

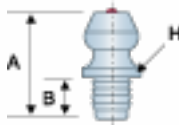
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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.

1728-B

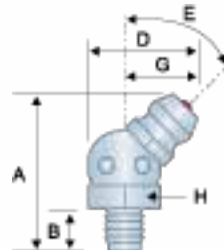
Straight Drive Type
≈ 3/16" Drill Size
Long Shank



AVAILABLE IN STAINLESS

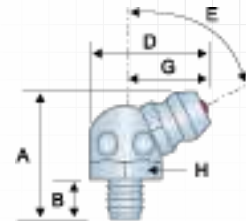
1992-B1

45° Angle Drive Type
≈ 3/16" Drill Size
Standard Shank



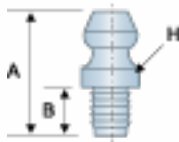
1646-B1

65° Angle Drive Type
≈ 3/16" Drill Size
Standard Shank



1633

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

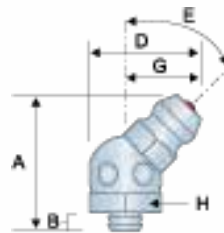


GM 11016

NO BALL CHECK

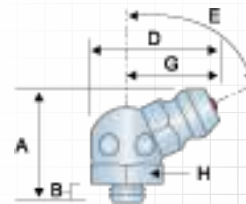
369580

45° Angle Drive Type
≈ 3/16" Drill Size
Short Shank



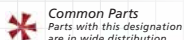
369545

65° Angle Drive Type
≈ 3/16" Drill Size
Short Shank



ALEMITE® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
1728-B	A1728	≈ 3/16" DRILL	STRAIGHT	.52"	.25"	□	□	5/16"	YES
1992-B1	A1992	≈ 3/16" DRILL	45°	.83"	.22"	.60"	.41"	3/8"	YES
1646-B1	A1646	≈ 3/16" DRILL	65°	.70"	.22"	.61"	.48"	3/8"	YES
1633	A1633	≈ 3/16" DRILL	STRAIGHT	.63"	.25"	□	□	5/16"	NO
369580	A369580	≈ 3/16" DRILL	45°	.69"	.09"	.60"	.41"	3/8"	YES
369545	A369545	≈ 3/16" DRILL	65°	.58"	.09"	.61"	.48"	3/8"	YES

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.



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DRIVE TYPE

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>1952-A ✱</p> <p>Straight Drive Type ≈ 1/4" Drill Size Short Shank</p> <p>GM 271432 NO BALL CHECK</p>	<p>1743-B ✱</p> <p>Straight Drive Type ≈ 1/4" Drill Size Long Shank</p>	<p>1744-B1</p> <p>65° Angle Drive Type ≈ 1/4" Drill Size Long Shank</p>	<p>369577</p> <p>Straight Drive Type ≈ 1/4" Drill Size Long Shank</p> <p>321381</p> <p> NO BALL CHECK</p>
<p>1608-B ✱</p> <p>Straight Drive Type ≈ 5/16" Drill Size Standard Shank</p>	<p>1699</p> <p>Straight Drive Type ≈ 5/16" Drill Size Standard Shank</p> <p>GM 109358 NO BALL CHECK</p>	<p>1630-B1</p> <p>65° Angle Drive Type ≈ 5/16" Drill Size Standard Shank</p>	<p>1666</p> <p>Straight Drive Type ≈ 3/8" Drill Size Standard Shank</p> <p> NO BALL CHECK</p>

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
1952-A ✱	A1952	≈ 1/4" DRILL	STRAIGHT	.41"	.13"	□	□	11/32"	NO
1743-B ✱	A1743	≈ 1/4" DRILL	STRAIGHT	.55"	.25"	□	□	5/16"	YES
1744-B1	A1744	≈ 1/4" DRILL	65° □	.71"	.28"	.67"	.48"	3/8" HEX	YES
369577	A369577	≈ 1/4" DRILL	STRAIGHT	.55"	.25"	□	□	11/32"	YES
321381	A321381	≈ 1/4" DRILL	STRAIGHT	.56"	.26"	□	□	11/32"	NO
1608-B ✱	A1608	≈ 5/16" DRILL	STRAIGHT	.55"	.25"	□	□	3/8"	YES
1699	A1699	≈ 5/16" DRILL	STRAIGHT	.63"	.22"	□	□	11/32"	NO
1630-B1	A1630	≈ 5/16" DRILL	65° □	.70"	.22"	.67"	.48"	3/8" HEX	YES
1666	A1666	≈ 3/8" DRILL	STRAIGHT	.58"	.22"	□	□	7/16"	NO

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

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GM/CH General Motors®/CH
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REVISED 06-11

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

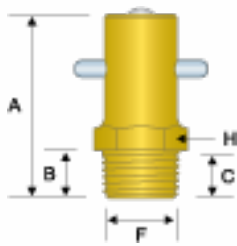
PIN TYPE

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 46

A336

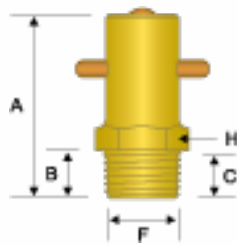
Straight Pin Type
1/8"-27 PTF Spl. Short
Standard Shank



BRASS

M336

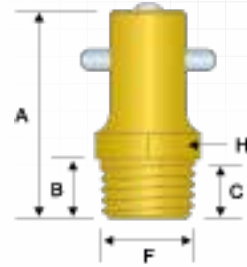
Straight Pin Type
1/8"-27 PTF Spl. Short
Standard Shank



BRASS WITH MONEL® PIN

A359

Straight Pin Type
1/4"-18 NPTF
Standard Shank



BRASS

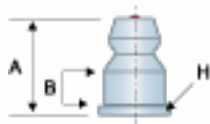
ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
A336	A336	1/8"-27	STRAIGHT	.91"	.21"	.19"	□	.39"	□	7/16"
M336	AM336	1/8"-27	STRAIGHT	.91"	.21"	.19"	□	.39"	□	7/16"
A359	A359	1/4"-18	STRAIGHT	1.09"	.31"	.25"	□	.52"	□	17/32"

RIVET TYPE

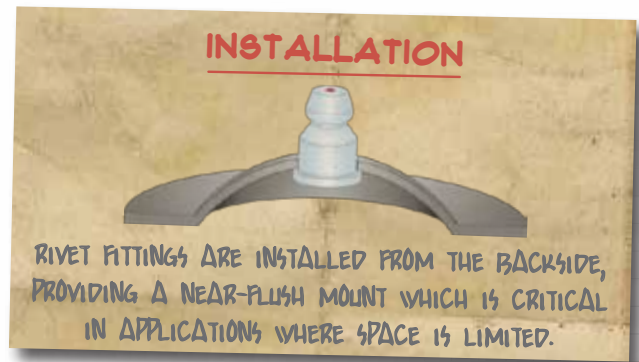
Rivet type fittings are designed for thin materials and special applications, such as on kingpins, where a conventional threaded or drive type fitting cannot be used or where a shank protruding into a component is unacceptable. Rivet type fittings are driven into place from behind.

1675-B

Straight Rivet Type
≈ 5/16" Drill Size



DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY



ALEMITE® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
1675-B	A1675	≈ 5/16" DRILL	STRAIGHT	.50"	.15"	□	□	3/8"	YES

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



FLUSH TYPE

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.

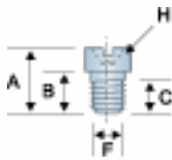
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

FOR MORE INFORMATION,
PLEASE SEE PG. 38

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

326314

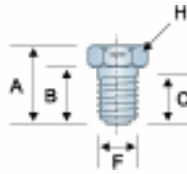
Straight Flush Type
10-32 UNF



SLOTTED

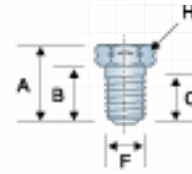
1851

Straight Flush Type
1/4"-28 UNF



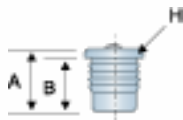
369610

Straight Flush Type
1/4"-28 UNF



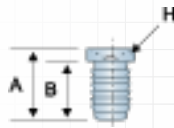
369604

Straight Flush Drive Type
≈ 1/4" Drill Size



3036

Straight Flush Drive Type
≈ 3/16" Drill Size



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.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX / SHOULDER DIAMETER (H)
326314	A326314	10-32	□	.38"	.23"	.19"	.18"	1/4" SLOTTED
1851	A1851	1/4"-28	□	.41"	.30"	.19"	.25"	5/16"
369610	A369610	1/4"-28	□	.42"	.30"	.24"	.25"	5/16"
369604	A369604	□	≈ 1/4" DRILL	.34"	.33"	□	□	5/16"
3036	A3036	□	≈ 3/16" DRILL	.38"	.31"	□	□	1/4"

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

FOR MORE INFORMATION,
PLEASE SEE PG. 38

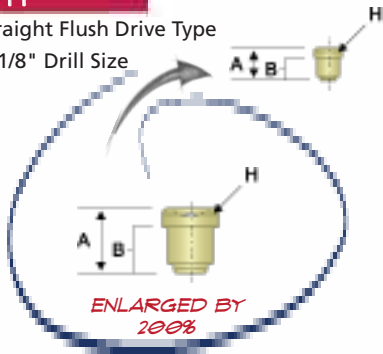
FLUSH TYPE

The addition of countersunk holes allows for some flush type fittings, such as the 1452, to be installed perfectly flush with their mating surface. The 314150 coupler, found on page 233, is recommended for servicing the 1877. Oil cans are a popular tool for servicing small diameter flush type fittings.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

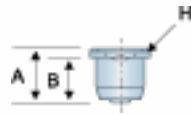
1877

Straight Flush Drive Type
≈ 1/8" Drill Size



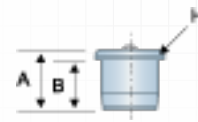
1885

Straight Flush Drive Type
≈ 1/4" Drill Size



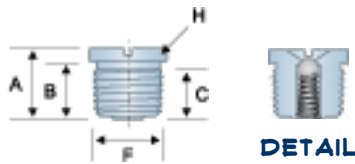
1814

Straight Flush Drive Type
≈ 5/16" Drill Size



1815

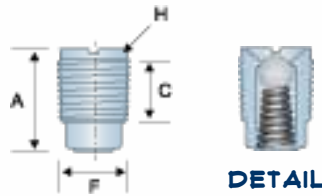
Straight Flush Type
1/8"-27 NPTF



SLOTTED

1452

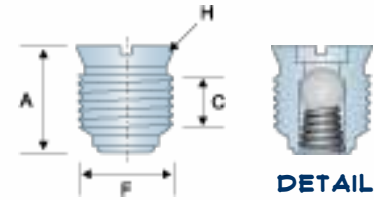
Straight Flush Type
1/8"-27 NPTF



SLOTTED

Z141-A

Straight Flush Type
1/4"-18 NPTF



SLOTTED

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX / SHOULDER DIAMETER (H)
1877	A1877	□	≈ 1/8" DRILL	.17"	.13"	□	□	5/32"
1885	A1885	□	≈ 1/4" DRILL	.28"	.23"	□	□	5/16"
1814	A1814	□	≈ 5/16" DRILL	.33"	.28"	□	□	3/8"
1815	A1815	1/8"-27	□	.36"	.30"	.30"	.39"	13/32" SLOTTED
1452	A1452	1/8"-27	□	.53"	□	.12"	.39"	ø.39" SLOTTED
Z141-A	AZ141	1/4"-18	□	.56"	□	.26"	.52"	ø.54" SLOTTED



BUTTON HEAD - STANDARD

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE.

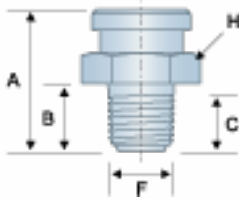
The large, flat head on button head fittings helps to minimize damage when used in harsh applications such as on heavy machinery and construction equipment. The plunger check design performs well under high back pressures and helps to reduce contamination and leakage.

FOR MORE INFORMATION,
PLEASE SEE PG. 38

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

A1184

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

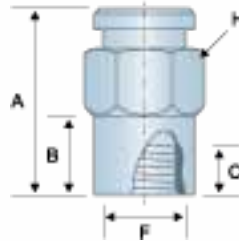


GM 191135

✦ AVAILABLE IN STAINLESS

C69

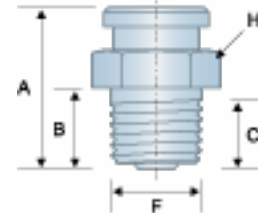
Button Head- Standard
1/8"-27 NPTF
Plunger Check



FEMALE THREADS

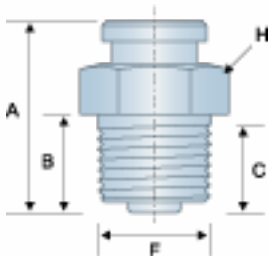
A1186

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



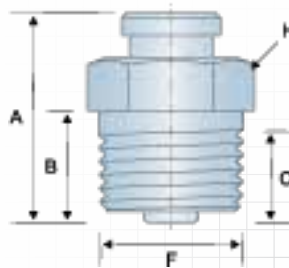
A1188

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



A1190

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



DESIGN FEATURE

ALEMITE® BUTTON HEAD FITTINGS ARE DESIGNED WITH A PLUNGER CHECK FOR RESISTANCE AGAINST HIGH BACK PRESSURES & TO ALLOW LARGE VOLUMES OF LUBRICATION TO FLOW INTO THE ASSEMBLY.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
A1184	A1184	1/8"-27	.75"	.34"	.22"	.39"	5/8"	PLUNGER CHECK
C69	AC69	1/8"-27	.91"	.41"	.28"	.39"	5/8"	PLUNGER CHECK
A1186	A1186	1/4"-18	.83"	.42"	.40"	.52"	5/8"	PLUNGER CHECK
A1188	A1188	3/8"-18	.95"	.48"	.41"	.64"	3/4"	PLUNGER CHECK
A1190	A1190	1/2"-14	1.06"	.55"	.53"	.82"	7/8"	PLUNGER CHECK

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

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REVISED 06-11

BUTTON HEAD - GIANT

EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

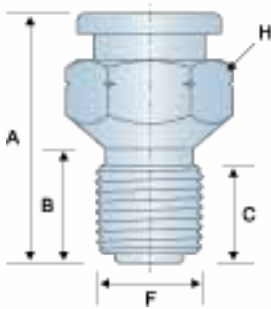
Giant button head fittings are intended for extremely rugged environments, such as on excavation and mining equipment. These fittings accept large volumes of heavy weight lubricants at high pressures.

FOR MORE INFORMATION,
PLEASE SEE PG. 38

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

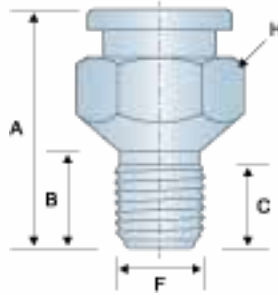
1822-A1

Button Head- Giant
3/8"-18 NPTF
Plunger Check



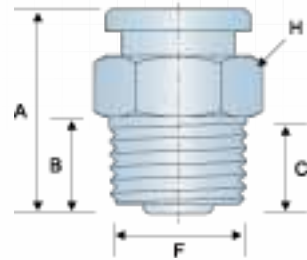
1823-1

Button Head- Giant
1/4"-18 NPTF
Plunger Check



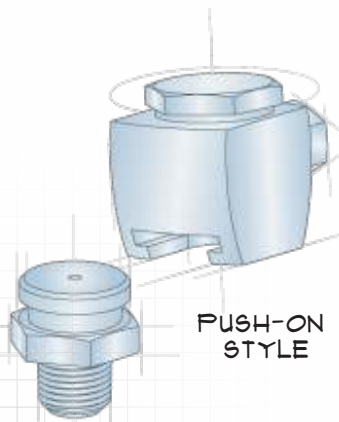
1820-1

Button Head- Giant
1/2"-14 NPTF
Plunger Check



ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
1822-A1	A1822	3/8"-18	1.31"	.56"	.41"	.64"	1/8"	PLUNGER CHECK
1823-1	A1823	1/4"-18	1.25"	.50"	.40"	.52"	1/8"	PLUNGER CHECK
1820-1	A1820	1/2"-14	1.06"	.50"	.44"	.82"	1/8"	PLUNGER CHECK

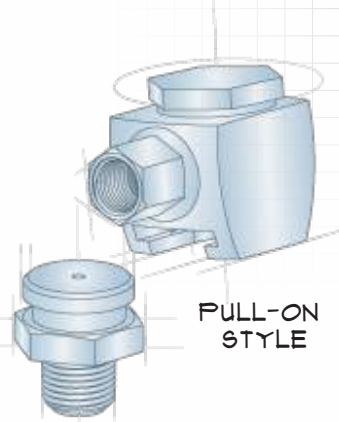
CUSTOMERS ALSO BOUGHT...



PUSH-ON
STYLE

BUTTON HEAD COUPLERS

OUR EXTENSIVE LINE OF ALEMITE®
BUTTON HEAD COUPLERS
IS AVAILABLE ON PAGE 232



PULL-ON
STYLE



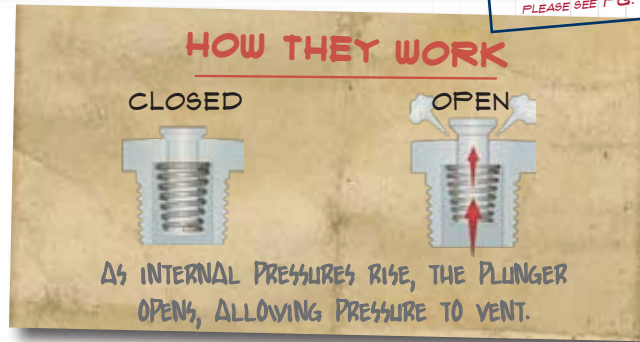
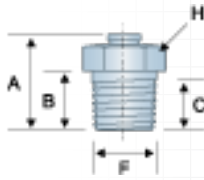
PRESSURE RELIEF

1/8" PTF

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



FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

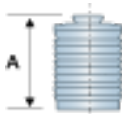
ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	RELIEF PRESSURE	GM® CROSS REFERENCE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
317400	A317400	1/8"-27	0.25-1 PSI	GM 455322	.50"	.30"	.20"	.39"	7/16"
47200	A47200	1/8"-27	1-5 PSI	GM 178779	.50"	.30"	.20"	.39"	7/16"
47640	A47640	1/8"-27	7.5-15 PSI	GM 431715	.50"	.30"	.20"	.39"	7/16"
323060	A323060	1/8"-27	15-25 PSI	GM 443589	.50"	.30"	.20"	.39"	7/16"
47100	A47100	1/8"-27	45-80 PSI	GM 106671	.50"	.30"	.20"	.39"	7/16"
369593	A369593	1/8"-27	100-200 PSI	□	.50"	.30"	.20"	.39"	7/16"
50500	A50500	1/8"-27	400-650 PSI	GM 443590	.50"	.30"	.20"	.39"	7/16"

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

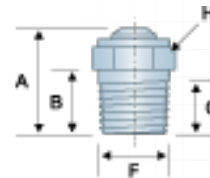
Relief - Top Vent Drive Type
≈ 3/8" Drill Size
Opening Range 1-5 psi



DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

338382

Relief - Leak Proof
1/8"-27 PTF Spl. Short
Opening Range 80-140 psi



ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	DRILL DIAMETER	RELIEF PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
321839	A321839	□	≈ 3/8" DRILL	1-5 PSI	.50"	□	□	□	□
338382	A338382	1/8"-27	□	80-140 PSI	.57"	.34"	.22"	.39"	7/16"

FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>DIAGRAM 1</p> <p>Vent 1/8"-27 PTF SAE Short</p>	<p>DIAGRAM 2</p> <p>Vent 1/8"-27 PTF Spl. Short</p> <p>GM 2031405 (FOR 300805) FELT FILTER</p>	<p>DIAGRAM 3</p> <p>Vent 1/8"-27 PTF SAE Short</p>	<p>DIAGRAM 4</p> <p>Vent 1/8"-27 PTF SAE Short</p>
<p>DIAGRAM 5</p> <p>Vent 1/8"-27 PTF Spl. Short</p>	<p>DIAGRAM 6</p> <p>Vent - Drive Type ≈ 0.368" Drill Size</p> <p>DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY</p>	<p>DIAGRAM 7</p> <p>Vent 3/8"-18 NPTF</p>	<p>DIAGRAM 8</p> <p>Vent - Reverse Flow 3/8"-18 NPTF</p> <p>REVERSE FLOW</p>

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	THREAD	DRILL DIAMETER	OPENING PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
304810	A304810	DIA. 1	1/8"-27	□	0.04-0.11 PSI	1.00"	.26"	.19"	.39"	7/16"
300805	A300805	DIA. 2	1/8"-27	□	0.04-0.11 PSI	1.00"	.27"	.19"	.39"	7/16"
131000-T	A131000	DIA. 3	1/8"-27	□	0.43 PSI MAX	1.00"	.26"	.19"	.39"	7/16"
327240	A327240	DIA. 4	1/8"-27	□	1-1.5 PSI	1.00"	.26"	.19"	.39"	7/16"
330766	A330766	DIA. 3	1/8"-27	□	2.5-4 PSI	1.00"	.26"	.19"	.39"	7/16"
369601	A369601	DIA. 5	1/8"-27	□	10-20 PSI	1.00"	.30"	.27"	.39"	9/16"
324970	A324970	DIA. 6	□	≈ 0.368" DRILL	0.22-0.43 PSI	1.00"	.28"	□	□	□
369621	A369621	DIA. 7	3/8"-18	□	1-2 PSI	1.39"	.61"	.59"	.64"	11/16"
326935	A326935	DIA. 8	3/8"-18	□	2-5 PSI	1.13"	.58"	.35"	.64"	11/16"

Common Parts
Parts with this designation are in wide distribution.

General Motors®
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General Motors®/CH
General Motors® is a registered trademark of General Motors Corp., Detroit, MI.

Ford®
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BREATHER

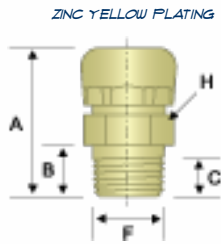
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

321620

Breather
1/8"-27 PTF Spl. Short



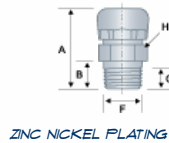
301370

DISCONTINUED
SEE PG. 55

GM 211420
ZINC CLEAR PLATING

NOT ACTUAL SIZE

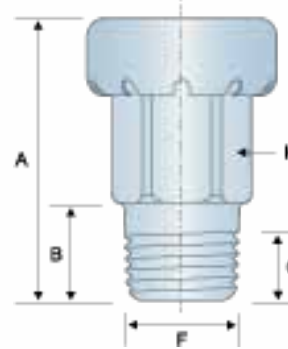
369583



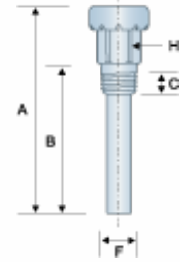
NOT ACTUAL SIZE

313650

Breather
3/8"-18 PTF SAE Short



333075



NOT ACTUAL SIZE

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
301370	A301370	1/8"-27	.78"	.28"	.19"	.39"	7/16"
321620	A321620	1/8"-27	.78"	.28"	.19"	.39"	7/16"
369583	A369583	1/8"-27	.78"	.28"	.19"	.39"	7/16"
313650	* A313650	3/8"-18	1.50"	.52"	.36"	.64"	3/4"
333075	A333075	3/8"-18	3.5"	2.5"	.36"	.64"	3/4"

INDUSTRY USES



BREATHERS ARE COMMONLY USED IN VARIOUS APPLICATIONS SUCH AS
AGRICULTURAL, EXCAVATION AND INDUSTRIAL MACHINERY

FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

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

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F Ford®
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BREATHER

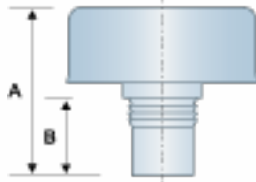
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

369518

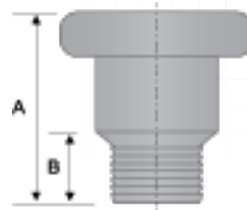
Breather - Drive Type
≈ 23/64" Drill Size



DRILL SIZES PROVIDED ARE
APPROXIMATIONS ONLY

369528

Breather - Drive Type
≈ 1/2" Drill Size



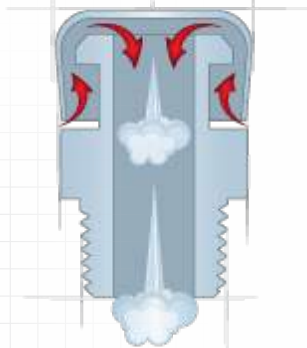
DRILL SIZES PROVIDED ARE
APPROXIMATIONS ONLY

PLAIN FINISH SO YOU CAN PAINT TO MATCH
YOUR ASSEMBLY

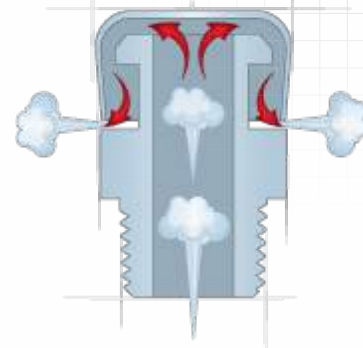
ALEMITE® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)
369518	A369518	≈ 23/64" DRILL	.88"	.48"
369528	A369528	≈ 1/2" DRILL	1.05"	.33"

DESIGN FEATURE

"BREATHING IN"



"BREATHING OUT"



BREATHERS DO NOT
RESTRICT AIRFLOW KEEPING
THE INTERNAL PRESSURE AT
A SAFE OPERATING LEVEL

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE



LEAK PROOF

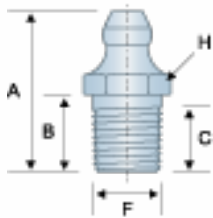
3,000 PSI

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 58-59

1650

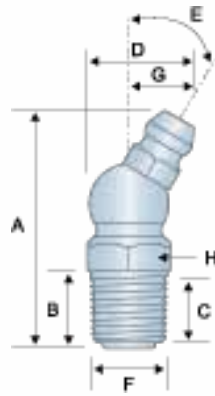
Straight Leak Proof
1/8"-27 PTF SAE Short
3,000 psi



WITHOUT
SURFACE
BALL CHECK

1692

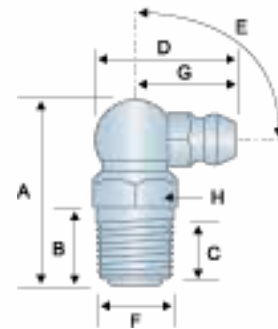
30° Angle Leak Proof
1/8"-27 NPTF
3,000 psi



WITHOUT
SURFACE
BALL CHECK

1693

90° Angle Leak Proof
1/8"-27 NPTF
3,000 psi

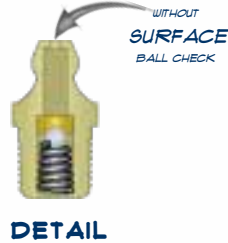
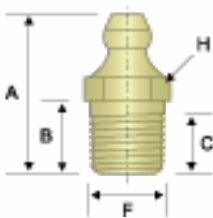


WITHOUT
SURFACE
BALL CHECK
Prices, materials, dimensions, tolerances, designs and

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

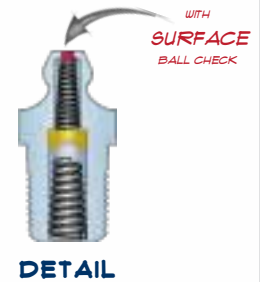
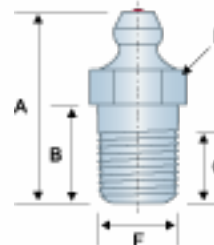
1634

Straight Leak Proof
1/8"-27 PTF SAE Short
10,000 psi



1634-B

Straight Leak Proof
1/8"-27 NPTF
10,000 psi



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"	.21"	.55"	.39"	.33"	7/16"
1693	A1693	1/8"-27	90°	3,000 PSI	.91"	.39"	.21"	.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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GM/CH General Motors®/CH
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REVISED 06-11

LEAK PROOF

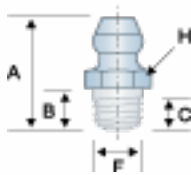
3,000 PSI

The 369619 has sealant pre-applied to the threads and uses a rubber ball check. The 369533 is a drive type fitting. Please test drill a hole to verify fit and function. Both parts possess a 3,000 psi leak-proof pressure rating.

FOR MORE INFORMATION, PLEASE SEE PG. 58-59

369619

Straight Leak Proof
1/4"-28 SAE-LT
3,000 psi

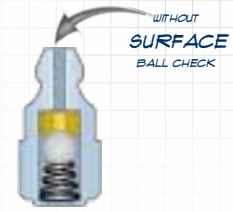
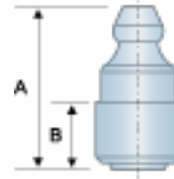


DETAIL

WITH RUBBER BALL CHECK
THREAD SEALANT PRE-APPLIED

369533

Straight Leak Proof - Drive Type
≈ 7/16" Drill Size
3,000 psi



DETAIL

DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	DRILL DIAMETER	ANGLE (E)	MAX BACK PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
369619	A369619	1/4"-28	□	STRAIGHT	3,000 PSI	.58"	.19"	.12"	.25"	5/16"
369533	A369533	□	≈ 7/16" DRILL	STRAIGHT	3,000 PSI	.86"	.36"	□	□	□

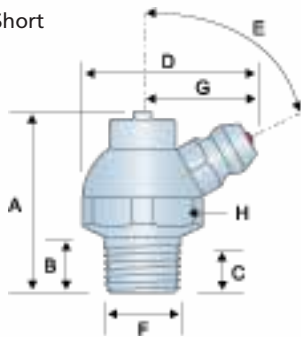
HYDRAULIC SHUT OFF

1/8"-27 PTF

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

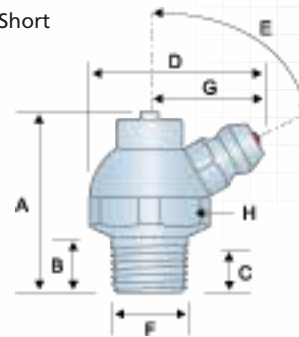
60° Angle Hydraulic Shut Off
1/8"-27 PTF Spl. Short
5-20 psi



GM 456653

1795-B

60° Angle Hydraulic Shut Off
1/8"-27 PTF Spl. Short
60-100 psi



GM 273325

FOR MORE INFORMATION, PLEASE SEE PG. 58-59

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	SHUT OFF PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
1940-B	A1940	1/8"-27	60° □	5-20 PSI	1.00"	.27"	.19"	.90"	.39"	.59"	5/8"
1795-B	A1795	1/8"-27	60° □	60-100 PSI	1.00"	.27"	.19"	.90"	.39"	.59"	5/8"

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

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GM/CH General Motors®/CH
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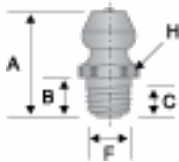
STAINLESS STEEL

1/4"-28 SAE-LT

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.

1966-S

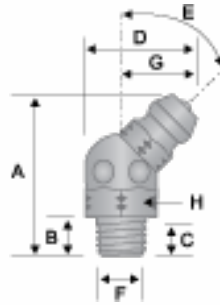
Straight - Stainless
1/4"-28 Taper Thread
Standard Shank



† AVAILABLE IN MONEL®

1968-S

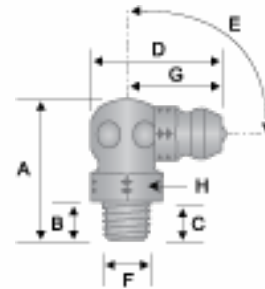
45° Angle - Stainless
1/4"-28 Taper Thread
Standard Shank



† AVAILABLE IN MONEL®

1969-S

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



† AVAILABLE IN MONEL®

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

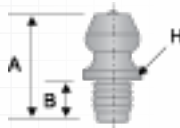
ALEMITE® ITEM #	G. L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
1966-S	✱ A16419	1/4"-28	STRAIGHT	.53"	.19"	.11"	□	.25"	□	5/16"
1968-S	✱ A16319	1/4"-28	45°	.81"	.20"	.11"	.59"	.25"	.40"	3/8"
1969-S	✱ A19119	1/4"-28	90°	.75"	.20"	.11"	.68"	.25"	.49"	3/8"

STAINLESS STEEL

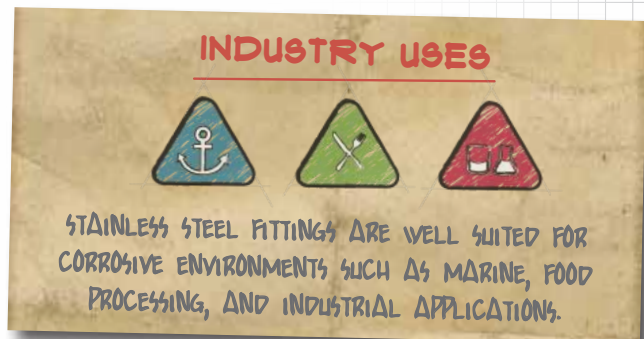
DRIVE TYPE

1728-S

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



DRILL SIZES PROVIDED ARE APPROXIMATIONS ONLY
WITHOUT DOUBLE NOTCH



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)
1728-S	A17289	≈ 3/16" DRILL	STRAIGHT	.52"	.25"	□	□	□	□	5/16"

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

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GM/CH General Motors®/CH
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IH Case IH®
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Monel® is a registered trademark of the Inco Alloys, International, Inc.

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STAINLESS STEEL

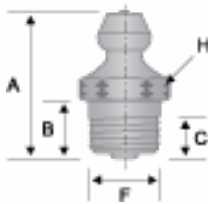
1/8"-27 PTF

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 ARE APPROXIMATE ACTUAL SIZE

1961-S

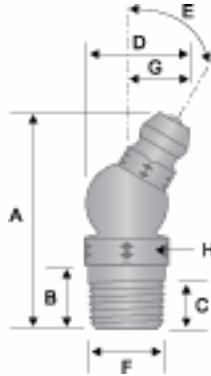
Straight - Stainless
1/8"-27 PTF Spl. Extra Short
Standard Shank



✦ AVAILABLE IN MONEL®

1921-S

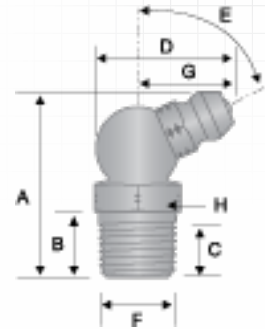
30° Angle - Stainless
1/8"-27 PTF Spl. Short
Standard Shank



✦ AVAILABLE IN MONEL®

1922-S

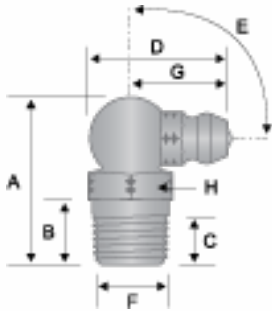
67.5° Angle - Stainless
1/8"-27 PTF Spl. Short
Standard Shank



✦ AVAILABLE IN MONEL®

1923-S

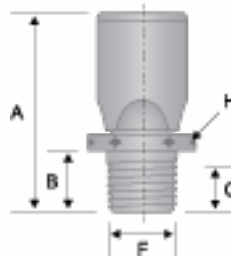
90° Angle - Stainless
1/8"-27 PTF Spl. Short
Standard Shank



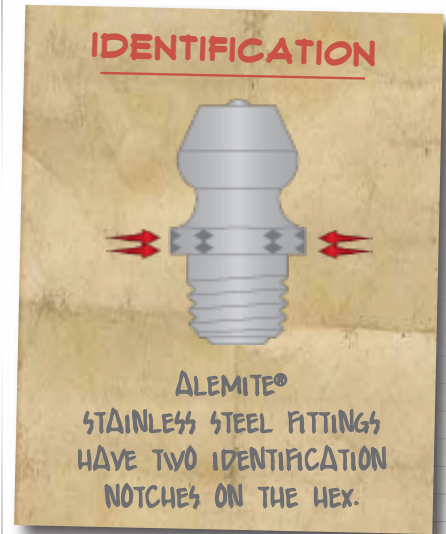
✦ AVAILABLE IN MONEL®

369606

Vent - Stainless
1/8"-27 PTF SAE Short
Opening Range 1-2 psi



SINGLE NOTCH FOR POSITIVE STAINLESS STEEL ID



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)
1961-S	A1961S	1/8"-27	STRAIGHT	.75"	.31"	.16"	□	.39"	□	7/16"
1921-S	A1611S	1/8"-27	30°	1.25"	.34"	.19"	.55"	.39"	.33"	7/16"
1922-S	A1612S	1/8"-27	67.5°	.95"	.34"	.19"	.72"	.39"	.50"	7/16"
1923-S	A1613S	1/8"-27	90°	.88"	.34"	.19"	.73"	.39"	.51"	7/16"
369606	A369606S	1/8"-27	VENT	1.04"	.30"	.24"	□	.39"	□	9/16"

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

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GM/CH General Motors®/CH
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MONEL®

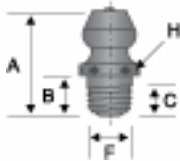
1/4"-28 SAE-LT

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

1966-B

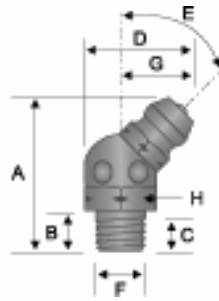
Straight - Monel®
1/4"-28 Taper Thread
Standard Shank



⊕ AVAILABLE IN STAINLESS

1968-B

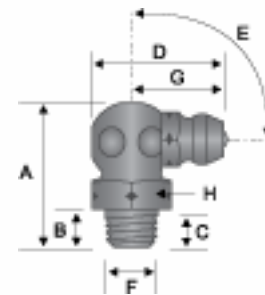
45° Angle - Monel®
1/4"-28 Taper Thread
Standard Shank



⊕ AVAILABLE IN STAINLESS

1969-B

90° Angle - Monel®
1/4"-28 Taper Thread
Standard Shank



⊕ AVAILABLE IN STAINLESS

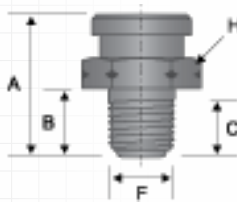
ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
1966-B	⊕ A1641M	1/4"-28	STRAIGHT	.53"	.19"	.11"	□	.25"	□	5/16"
1968-B	⊕ A1637M	1/4"-28	45°	.81"	.20"	.11"	.59"	.25"	.40"	3/8"
1969-B	⊕ A1911M	1/4"-28	90°	.75"	.20"	.11"	.68"	.25"	.49"	3/8"

MONEL®

BUTTON HEAD

M1184

Button Head - Monel®
1/8"-27 PTF Spl. Short
Plunger Check



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)
M1184	⊕ A1184M	1/8"-27	□	.75"	.34"	.22"	□	.39"	□	5/8"

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

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

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MONEL®

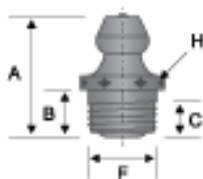
1/8"-27 PTF

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

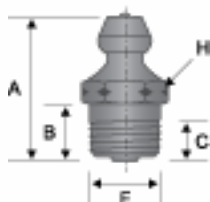
1962-B

Straight - Monel®
1/8"-27 PTF Spl. Extra Short
Standard Shank

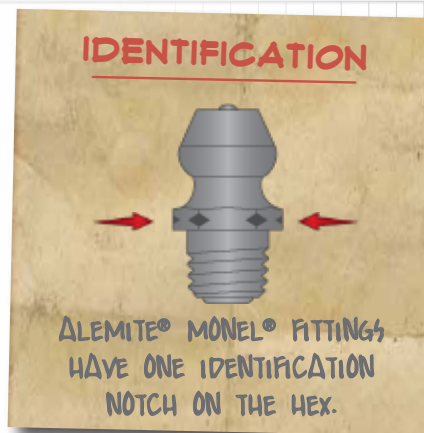


1961-B

Straight - Monel®
1/8"-27 PTF Spl. Extra Short
Standard Shank

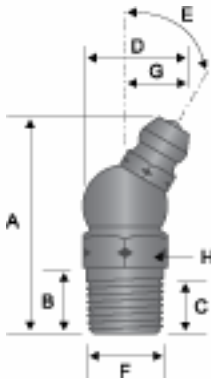


✦ AVAILABLE IN STAINLESS



1921-B

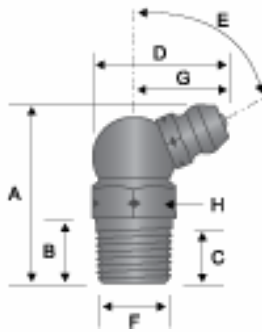
30° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



✦ AVAILABLE IN STAINLESS

1922-B

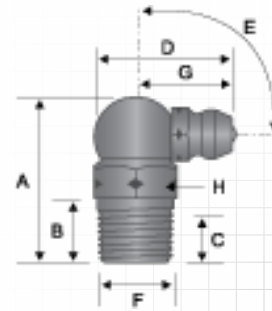
67.5° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



✦ AVAILABLE IN STAINLESS

1923-B

90° Angle - Monel®
1/8"-27 PTF Spl. Short
Standard Shank



✦ AVAILABLE IN STAINLESS

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)
1962-B	A1962M	1/8"-27	STRAIGHT	.63"	.28"	.16"	□	.39"	□	7/16"
1961-B	A1961M	1/8"-27	STRAIGHT	.75"	.31"	.16"	□	.39"	□	7/16"
1921-B	A1611M	1/8"-27	30° □	1.25"	.34"	.19"	.55"	.39"	.33"	7/16"
1922-B	✦ A1612M	1/8"-27	67.5° □	.95"	.34"	.19"	.72"	.39"	.50"	7/16"
1923-B	✦ A1613M	1/8"-27	90° □	.88"	.34"	.19"	.73"	.39"	.51"	7/16"

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

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EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>2106</p> <p>Straight M6 x 1.0 Tapered Thread Long Shank</p>	<p>2107</p> <p>45° Angle M6 x 1.0 Tapered Thread Standard Shank</p>	<p>2108</p> <p>90° Angle M6 x 1.0 Tapered Thread Standard Shank</p>
<p>2103</p> <p>Straight M8 x 1.0 Tapered Thread Long Shank</p>	<p>2105</p> <p>90° Angle M8 x 1.0 Tapered Thread Standard Shank</p>	<p>2109</p> <p>Straight M10 x 1.0 Tapered Thread Standard Shank</p>

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)
2106	A2106	M6 x 1.0	STRAIGHT	15.0 MM	6.5 MM	4.0 MM	□	6.0 MM	□	7.0 MM
2107	A2107	M6 x 1.0	45°	20.6 MM	5.5 MM	4.0 MM	15.0 MM	6.0 MM	10.0 MM	10.0 MM
2108	A2108	M6 x 1.0	90°	19.1 MM	5.5 MM	4.0 MM	18.0 MM	6.0 MM	13.0 MM	10.0 MM
2103	A2103	M8 x 1.0	STRAIGHT	15.9 MM	6.5 MM	4.0 MM	□	8.0 MM	□	9.0 MM
2105	A2105	M8 x 1.0	90°	19.1 MM	5.5 MM	4.0 MM	18.0 MM	8.0 MM	13.0 MM	10.0 MM
2109	A2109	M10 x 1.0	STRAIGHT	15.9 MM	6.5 MM	4.0 MM	□	10.0 MM	□	11.0 MM

Common Parts
Parts with this designation
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M8 & M10 & BRITISH

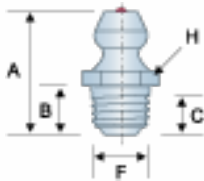
EXCEEDS 12 HR SALT SPRAY.
8,000 PSI MAX PRESSURE

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

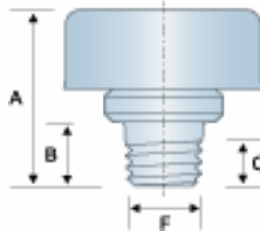
369569

Straight
M8 x 1.0 Thread Forming
Long Shank



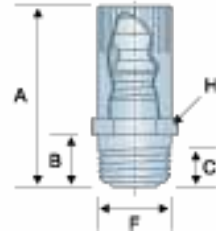
369568

Straight Breather
M10 x 1.5 Tapered Thread
Long Shank



1958-E

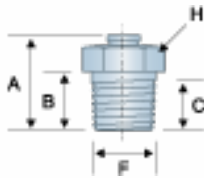
Straight
1/8"-28 BSPT
Long Shank



INTERNAL CHECK VALVE
INCLUDES DUST CAP

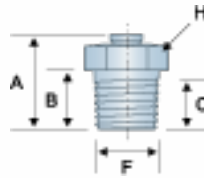
317400-E

Relief - Top Vent
1/8"-28 BSPT
Opening Range 0.25-1 psi



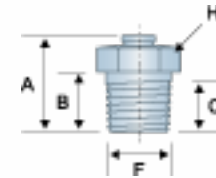
47200-E

Relief - Top Vent
1/8"-28 BSPT
Opening Range 1-5 psi



47100-E

Relief - Top Vent
1/8"-28 BSPT
Opening Range 45-80 psi



ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD	DESCRIPTION	RELIEF PRESSURE	OVERALL WIDTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (V)
369569	A369569	M8 X 1.0	STRAIGHT	□	15.7 MM	6.5 MM	4.5 MM	8.0 MM	10.0 MM
369568	A369568	M10 X 1.5	BREATHER	□	23.4 MM	7.5 MM	6.4 MM	10.0 MM	□
1958-E	A1958E	1/8"-28	DUST CAP	□	.91"	.29"	.15"	.38"	7/16"
317400-E	A317400E	1/8"-28	VENT	0.25-1 PSI	.50"	.30"	.23"	.38"	7/16"
47200-E	A47200E	1/8"-28	VENT	1-5 PSI	.50"	.30"	.23"	.38"	7/16"
47100-E	A47100E	1/8"-28	VENT	45-80 PSI	.50"	.30"	.23"	.38"	7/16"



ADAPTERS & EXTENSIONS

MALE × FEMALE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

DIAGRAM 1

Straight Adapter
Male x Female

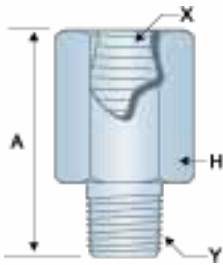


DIAGRAM 2

Straight Extension
Male x Female

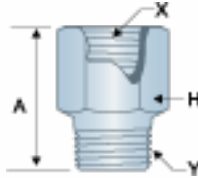


DIAGRAM 3

Straight Extension
Male x Female

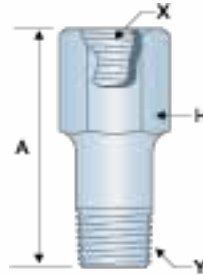


DIAGRAM 4

Straight Extension
Male x Female

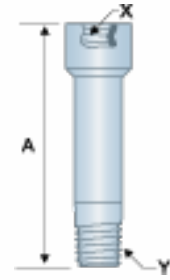


DIAGRAM 5

Straight Adapter
Male x Female

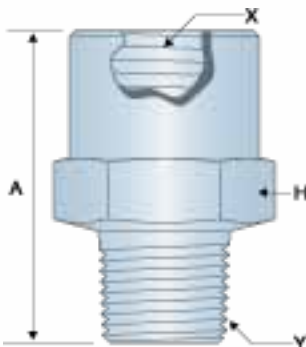
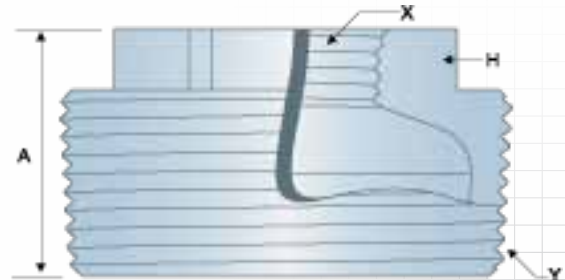


DIAGRAM 6

Straight Adapter
Male x Female



ALEMITE® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
51942	A51942	DIA. 1	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	STRAIGHT	.81"	1/2"
305859	A305859	DIA. 1	7/16"-27 UNS (M)	1/8"-27 NPTF (F)	STRAIGHT	.78"	9/16"
43760	A43760	DIA. 1	1/8"-27 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.19"	5/8"
301198	A301198	DIA. 1	1/4"-18 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.44"	7/8"
130659	A130659	DIA. 1	1/2"-14 NPTF (M)	3/4"-14 NPTF (F)	STRAIGHT	1.94"	1 3/8"
43761	A43761	DIA. 2	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.75"	1/2"
43762	A43762	DIA. 3	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	1.25"	1/2"
336551	A336551	DIA. 4	1/4"-28 SAE-LT (M)	1/4"-28 UNF (F)	STRAIGHT	1.28"	□
52797	A52797	DIA. 5	3/8"-18 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.62"	1"
338552	A338552	DIA. 6	2"-11 1/2 NPT (M)	3/4"-14 NPT (F)	STRAIGHT	1.29"	1 5/8"

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ADAPTERS

MALE x MALE

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

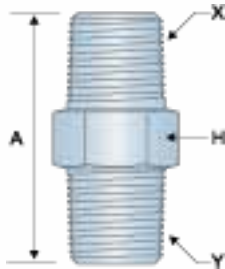


DIAGRAM 2

Straight Adapter
Male x Male

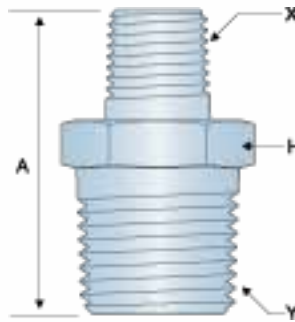
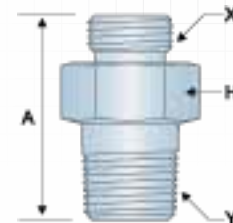


DIAGRAM 3

Straight Adapter
Male x Male



ALEMITE® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
327033	A327033	DIA. 1	1/4"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.41"	9/16"
41729	A41729	DIA. 1	3/8"-18 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.44"	11/16"
51888	A51888	DIA. 1	1/2"-14 NPTF (M)	1/2"-14 NPTF (M)	STRAIGHT	1.81"	7/8"
336842	A336842	DIA. 1	3/4"-14 NPTF (M)	3/4"-14 NPTF (M)	STRAIGHT	1.96"	1 1/8"
336843	A336843	DIA. 1	1"-11 1/2 NPTF (M)	1"-11 1/2 NPTF (M)	STRAIGHT	2.34"	1 3/8"
42159	A42159	DIA. 1	1/2"-27 NS TAPER (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.31"	9/16"
130552	A130552	DIA. 2	1/2"-14 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.59"	7/8"
50610	A50610	DIA. 2	1/2"-14 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.62"	7/8"
43379	A43379	DIA. 2	1/4"-18 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.38"	9/16"
44734	A44734	DIA. 2	3/8"-18 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.38"	11/16"
307925	A307925	DIA. 2	1/2"-14 NPTF (M)	1/2"-27 NS TAPER (M)	STRAIGHT	1.56"	1"
47103	A47103	DIA. 3	1/2"-27 NS TAPER (M)	7/16"-27 UNS (M)	STRAIGHT	1.06"	5/8"

Common Parts
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ELBOWS & ADAPTERS

MALE × FEMALE

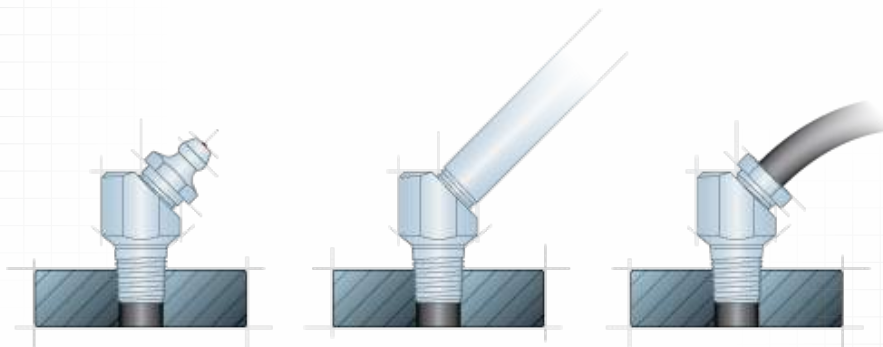
Elbows and angled adapters may be used to mate or adapt threads around corners and in hard-to-reach areas. The 369594 and 369586 are fitting bodies without a mating nipple and are sometimes used to remote mount lubrication points with a flex hose.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

<p>369594 45° Angle Elbow Female (X) - 1/4"-28 UNF Male (Y) - 1/4"-28 SAE-LT</p>	<p>369586 65° Angle Elbow Female (X) - 1/4"-28 UNF Male (Y) - 1/4"-28 SAE-LT</p>	<p>310912 45° Angle Adapter Female (X) - 1/8"-27 NPTF Male (Y) - 1/4"-28 SAE-LT</p>	<p>43716 45° Angle Elbow Female (X) - 1/8"-27 NPTF Male (Y) - 1/8"-27 PTF SAE Short</p>
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ALEMITE® ITEM #	G.L. HUYETT ORDER #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
369594	A369594	1/4"-28 SAE-LT (M)	1/4"-28 UNF (F)	45°	.70"	3/8"
369586	A369586	1/4"-28 SAE-LT (M)	1/4"-28 UNF (F)	65°	.70"	3/8"
310912	A310912	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	45°	.81"	1/2"
43716	A43716	1/8"-27 NPTF (M)	1/8"-27 PTF SAE SHORT (F)	45°	1.00"	1/2"

DESIGN FEATURE



ELBOW CONNECTING PARTS, SUCH AS THE 43716, CAN BE USED IN A VARIETY OF APPLICATIONS

***** Common Parts
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ELBOWS & ADAPTERS

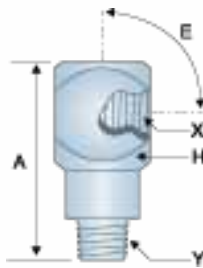
MALE × FEMALE

The larger 1/4"-18 thread found on the 43748 is well suited for heavy-duty use in agriculture, construction and on industrial machinery.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

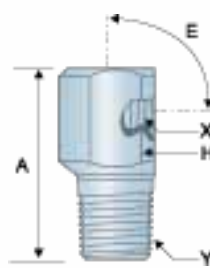
51943

90° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-28 SAE-LT



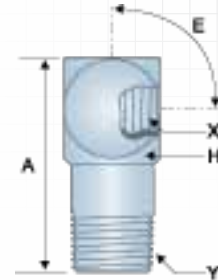
44701

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



43706

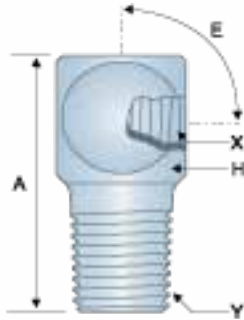
90° Angle Elbow
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/8"-27 PTF SAE Short



WRENCHING
FLATS

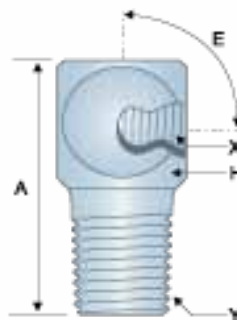
43748

90° Angle Elbow
Female (X) - 1/4"-18 NPTF
Male (Y) - 1/4"-18 PTF SAE Short



43718

90° Angle Adapter
Female (X) - 1/8"-27 NPTF
Male (Y) - 1/4"-18 PTF SAE Short



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!

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.

Common Parts
Parts with this designation
are in wide distribution.

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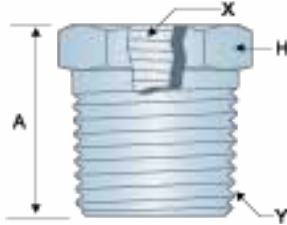
BUSHINGS

MALE x FEMALE

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



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 #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
45120	A45120	1/4"-18 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.75"	9/16"
A112	A112	3/8"-18 NPTF (M)	1/8"-27 NPSI (F)	STRAIGHT	.53"	11/16"
40996	A40996	3/8"-18 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	.72"	3/4"
51891	A51891	1/2"-14 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.12"	7/8"
320356	A320356	3/4"-14 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	.94"	1-1/16"
131586	A131586	1/2"-14 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.12"	7/8"
320353	A320353	1"-11 1/2 NPTF (M)	3/4"-14 NPTF (F)	STRAIGHT	1.16"	1-5/16"
328207	A328207	1 1/2"-11 1/2 NPTF (M)	1"-11 1/2 NPTF (F)	STRAIGHT	1.19"	2"
320354	A320354	1"-11 1/2 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.16"	1 5/16"

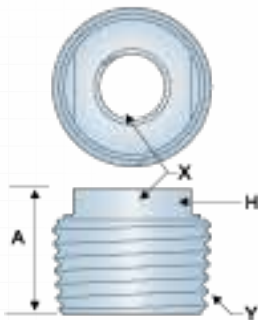
TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

BUSHINGS

MALE x FEMALE

A113

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



WITH
WRENCHING
FLATS

HOW THEY WORK



BUSHINGS ARE THREADED ON BOTH THE INSIDE
& OUTSIDE AND ARE USED FOR JOINING PARTS
WITH DIFFERENT DIAMETERS TOGETHER.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
A113	A113	1/2"-14 NPTF (M)	1/8"-27 NPSI (F)	STRAIGHT	.66"	5/8"

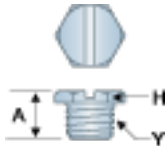
PLUGS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

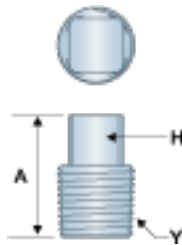
328224

Plug - Slotted Hex Head
1/4"-28 SAE-LT



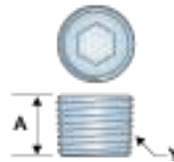
1480

Plug - Square Head
1/8"-27 NPTF



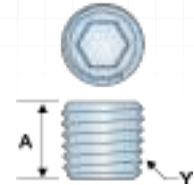
17831

Plug - Hex Socket
1/8"-27 NPTF



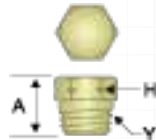
170008

Plug - Hex Socket
1/4"-18 NPTF



328435

Plug - Hex Head
1/4"-28 Thread Forming



SPECIAL PARTS

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WE CARRY A LARGE INVENTORY OF
FITTINGS AND ACCESSORIES.
CALL THE G.L. HUYETT SALES TEAM
FOR MORE INFORMATION!

ALEMITE® ITEM #	G.L. HUYETT ORDER #	THREAD (Y)	OVERALL LENGTH (A)	DRIVE (H)
328224	A328224	1/4"-28 SAE-LT	.33"	5/16" SLOTTED HEX HEAD
1480	A1480	1/8"-27 NPTF	.65"	5/16" SQUARE
17831	A17831	1/8"-27 NPTF	.32"	3/16" HEX SOCKET
170008	A170008	1/4"-18 NPTF	.48"	3/16" HEX SOCKET
328435	A328435	1/4"-28 THREAD FORMING	.31"	9/32" HEX

STANDARD - LEVER GREASE GUN

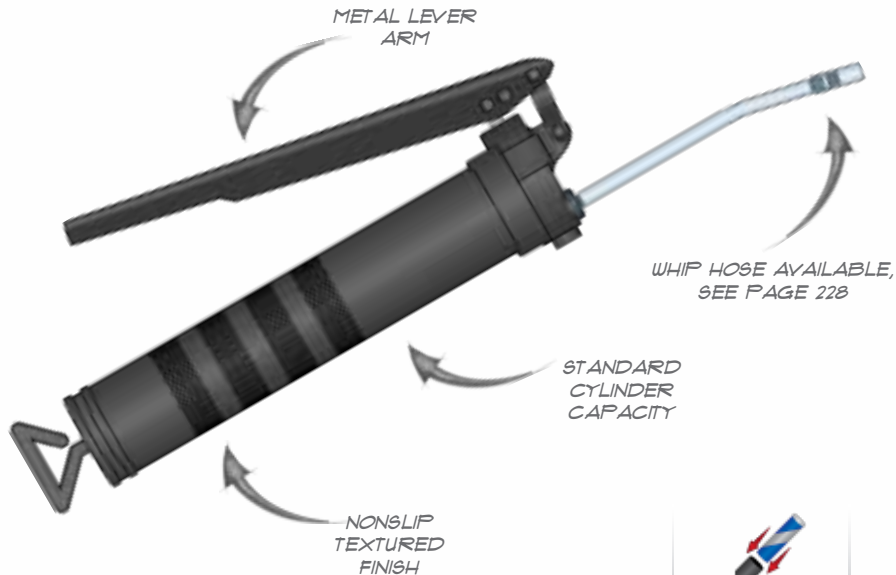
8,000 PSI

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

PER 1 OZ 28 STROKES



8,000 PSI



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
F106	AF106	LEVER - STANDARD	14 OZ	16 OZ	1 OZ./28 STROKES	1/8"-27 NPT	8,000 PSI	3.4 LBS.

CONSIDER THIS...

BULK LOAD



SUCTION LOAD



CARTRIDGE LOAD



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

***** Common Parts
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STANDARD - LEVER GREASE GUN

4,300 PSI

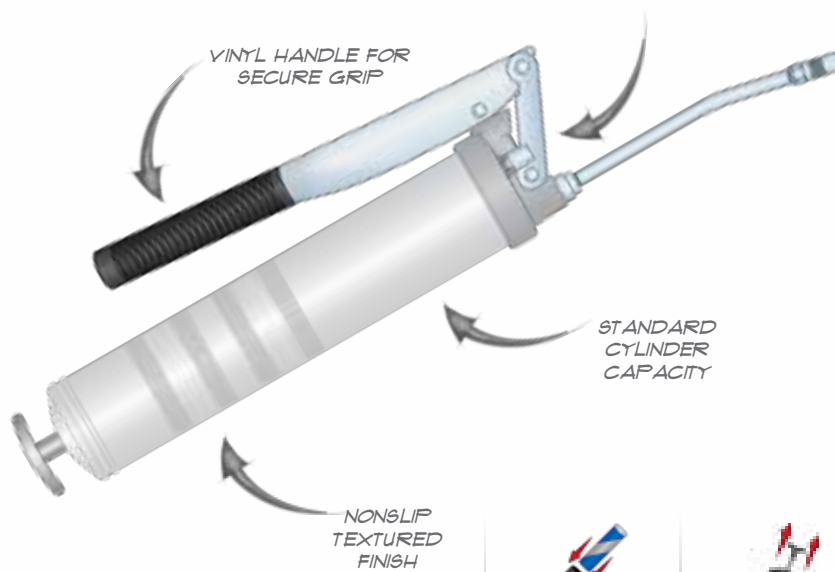
Alemite's® standard grease gun is their base model, designed for use in general lubrication and daily maintenance work. This gun is equipped with an air bleeder valve, and bulk loader valve and has a vinyl handle to ensure a secure grip.

FI01

Lever Grease Gun - Standard
 14 oz. Cartridge Capacity
 1/8"-27 NPT with Pipe & Coupler
 4,300 psi

PER 28 STROKES
 1 OZ

AIR BLEEDER VALVE & BULK LOADER VALVE



4,300 PSI



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
FI01	AFI01	LEVER - STANDARD	14 OZ.	16 OZ.	1 OZ./28 STROKES	1/8"-21 NPT	4,300 PSI	3.5 LBS.

CUSTOMERS ALSO BOUGHT



COUPLERS
 THE COMPLETE LINE BEGINS ON PAGE 230

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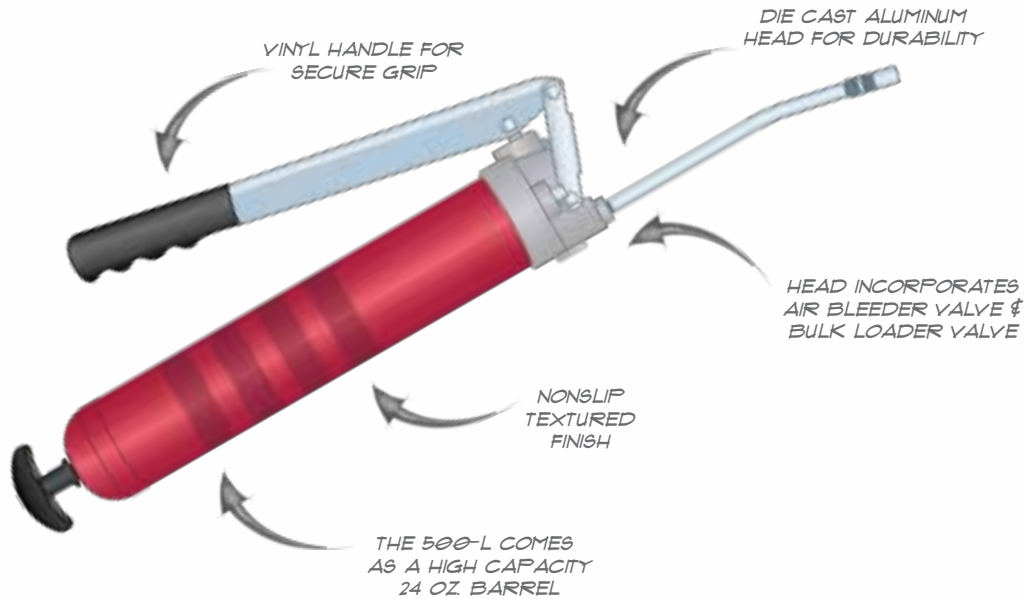
PROFESSIONAL - LEVER GREASE GUN

10,000 PSI

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.

500

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



10,000 PSI



CARTRIDGE LOAD



SUCTION LOAD



BULK LOAD

ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
500 *	A500	LEVER - PROFESSIONAL	14 OZ	16 OZ	1 OZ / 21 STROKES	1/8"-21 NPT	10,000 PSI	3.1 LBS.
500-E Ⓟ	A500E	LEVER - PROFESSIONAL W/ HOSE	14 OZ	16 OZ	1 OZ / 21 STROKES	1/8"-21 NPT	10,000 PSI	3.3 LBS.
500-L Ⓟ	A500L	LEVER - HIGH CAPACITY PRO	14 OZ	24 OZ	1 OZ / 21 STROKES	1/8"-21 NPT	10,000 PSI	3.3 LBS.

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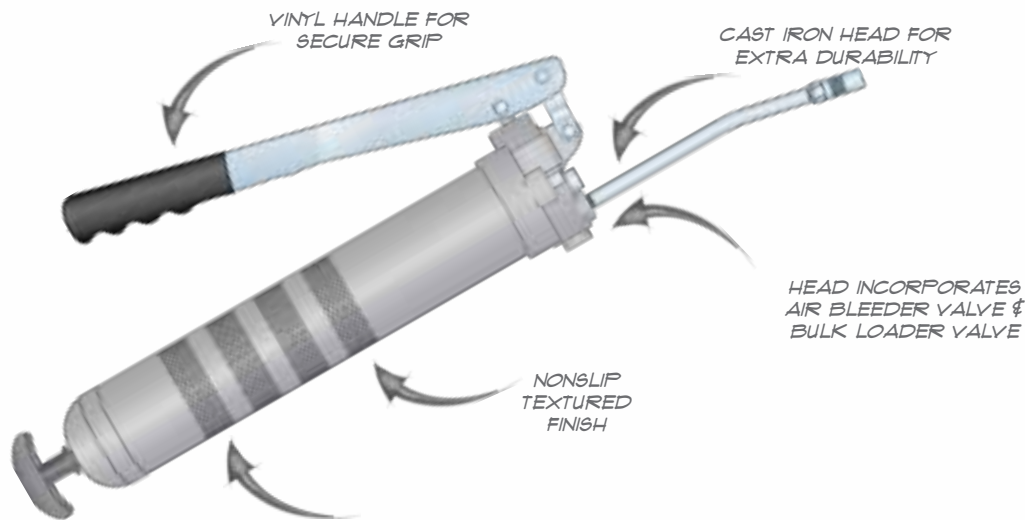
HIGH VOLUME - LEVER GREASE GUN

1,800 PSI

For those applications, such as giant button head fittings, which often require large volumes of grease at relatively low pressures, the 4015 series gun delivers 3 times more grease per stroke than standard guns.

4015-A4

Lever Grease Gun - High Volume
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
1,800 psi



1,800 PSI

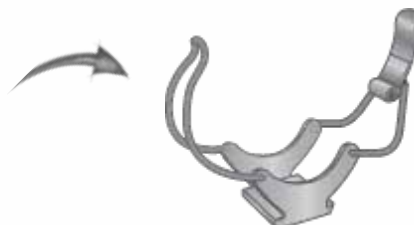
THE 4015-B4 COMES AS A HIGH CAPACITY 24 OZ BARREL



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
4015-A4	A4015A4	LEVER - HIGH VOLUME	14 OZ	16 OZ.	1 OZ. / 1 STROKES	1/8"-27 NPT	1,800 PSI	4.0 LBS.
4015-B4	A4015B4	LEVER - HIGH VOL./HIGH CAPACITY	14 OZ	24 OZ.	1 OZ. / 1 STROKES	1/8"-27 NPT	1,800 PSI	5.0 LBS.

CUSTOMERS ALSO BOUGHT

ALEMITE® # F331035
GREASE GUN HOLDER



ORDER AS:
AF331035

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HEAVY DUTY - LEVER GREASE GUN

10,000 PSI

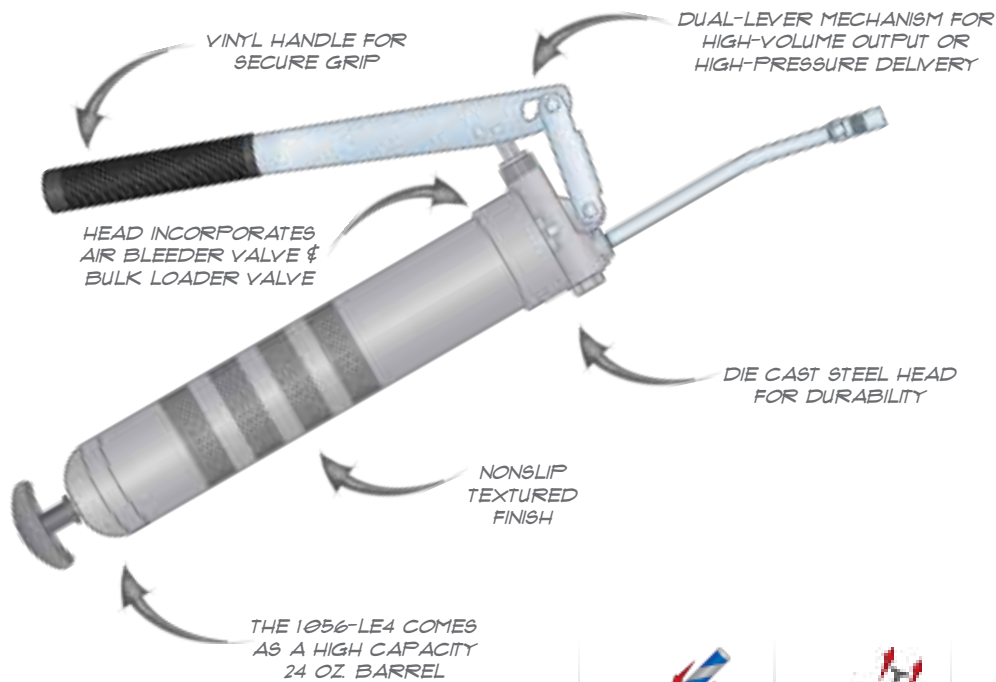
Heavy duty grease guns are designed with a rugged die cast steel head, durable body and a strong follower for the toughest use applications. These guns feature a dual lever mechanism which allows for either high-pressure (10,000 psi) or high-volume (1 oz./16 strokes) delivery.

1056-9E4

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

1 OZ PER 16 STROKES
VOLUME MODE

1 OZ PER 25 STROKES
PRESSURE MODE



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
1056-9E4	A10569E4	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.
1056-94	A105694	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.
1056-LE4	A1056LE4	LEVER - HIGH CAP. HVY. DUTY	14 OZ.	24 OZ.	1 OZ / 16 STROKES	1 OZ / 25 STROKES	1/8"-27 NPT	10,000 PSI	5.4 LBS.

Common Parts
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EXTREME DUTY - LEVER GREASE GUN

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

1 OZ PER 20 STROKES

HIGH PRESSURE

24 OZ BULK LOAD CAPACITY

EXTRA LONG SOLID LEVER FOR MAXIMUM LEVERAGE

10,000 PSI MAXIMUM PRESSURE



6679-J3E

Lever Grease Gun - Extreme Duty - High Vol.
24 oz. Bulk Capacity
1/4" -18 NPTF with Pipe & Coupler
5,000 psi

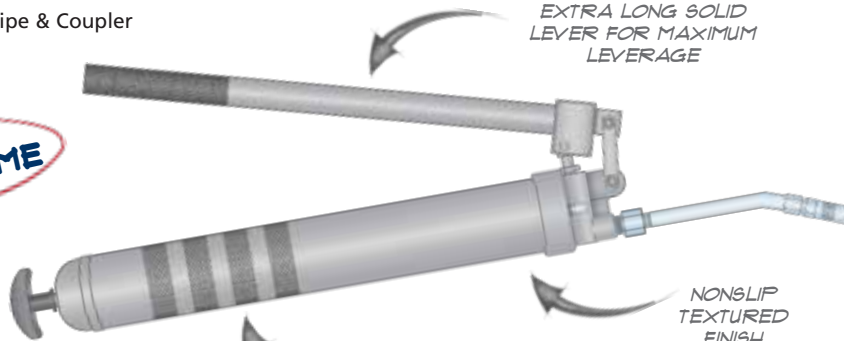
1 OZ PER 10 STROKES

HIGH VOLUME

EXTRA LONG SOLID LEVER FOR MAXIMUM LEVERAGE

NONSLIP TEXTURED FINISH

24 OZ BULK LOAD CAPACITY



10,000 PSI



5,000 PSI



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
6243-J3E	A6243J3E	LEVER - EXTREME DUTY	14 OZ.	24 OZ.	1 OZ./20 STROKES	1/4"-18 NPTF	10,000 PSI	8.1 LBS.
6243-J3	A6243J3	LEVER - EXTREME DUTY GUN ONLY	14 OZ.	24 OZ.	1 OZ./20 STROKES	1/4"-18 NPTF	10,000 PSI	7.6 LBS.
6679-J3E	A6679J3E	LEVER - EXTREME DUTY	14 OZ.	24 OZ.	1 OZ./10 STROKES	1/4"-18 NPTF	5,000 PSI	13.9 LBS.
6679-J3	A6679J3	LEVER - EXTREME DUTY GUN ONLY	14 OZ.	24 OZ.	1 OZ./10 STROKES	1/4"-18 NPTF	5,000 PSI	7.6 LBS.

Common Parts
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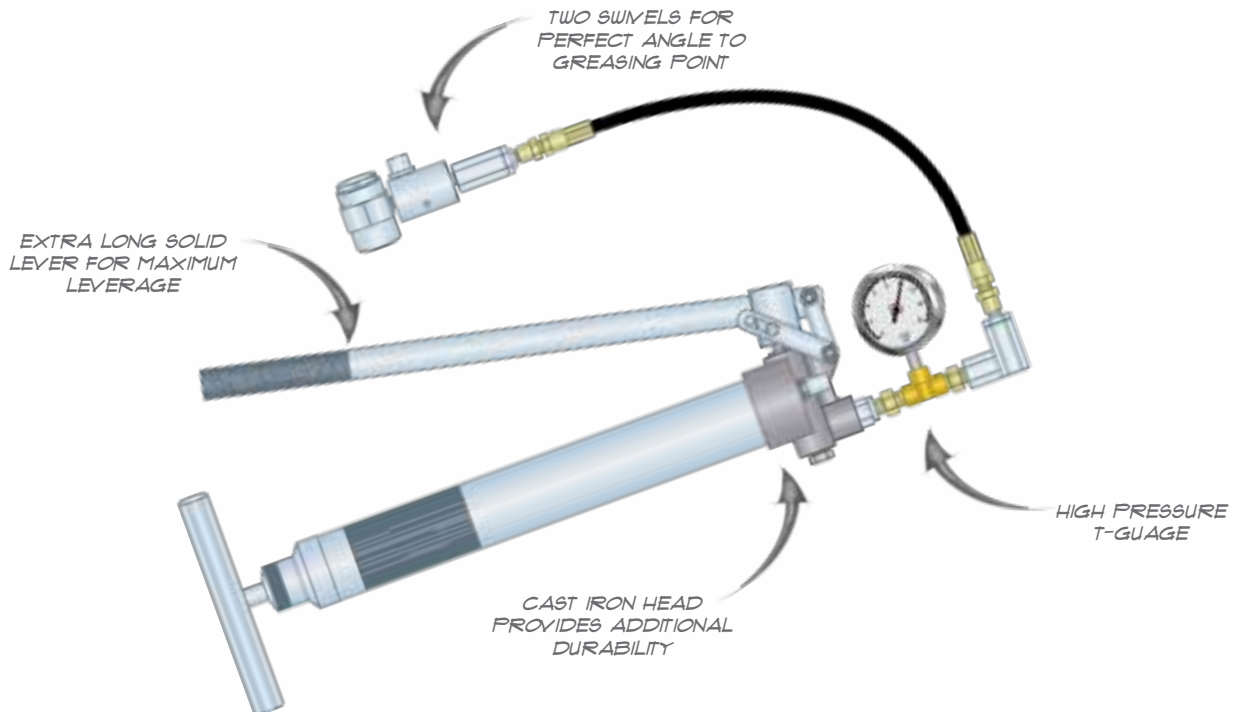
HIGH PRESSURE - LEVER GREASE GUN

15,000 PSI

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



15,000 PSI

COMES WITH:
CARRYING STRAP



STICK
LOAD



BULK
LOAD



VARIABLE
STROKE

ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CYLINDER CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
325540-1	A3255401	LEVER - HIGH PRESS. GIANT BUTTON HEAD COUP.	12 OZ.	1 OZ. / 24 STROKES	1/4"-18 NPTF	15,000 PSI	21.9 LBS.
6268-2	A62682	LEVER - HIGH PRESSURE - GUN ONLY	12 OZ.	1 OZ. / 24 STROKES	1/4"-18 NPTF	15,000 PSI	16.5 LBS.
325540-2	A3255402	LEVER - HIGH PRESS. SAF-T-VENT COUPLER	12 OZ.	1 OZ. / 24 STROKES	1/4"-18 NPTF	15,000 PSI	22.0 LBS.

Common Parts
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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

BULK LOAD READY, FITTING
SOLD SEPARATELY.
SEE PAGE 271

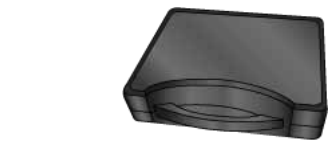


LIGHTWEIGHT CONSTRUCTION
AND ERGONOMIC DESIGN
FOR EASY SERVICING

BATTERY PACK
FOR CORDLESS
OPERATION



3' ULTRA-FLEXIBLE
HOSE WITH GREASE
COUPLER CAN
HANDLE 12,000 PSI



10,000 PSI



6,500 PSI

COMES WITH:
HARD COVER CASE,
2 BATTERIES & CHARGER



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	DELIVERY (1,000 PSI FLOW)	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
585-B1	A585B1	CORDLESS - 14.4 VOLT	14 OZ.	16 OZ.	5.6 OZ. / MIN.	1/8"-27 NPTF	10,000 PSI	19.0 LBS.
575-B1	A575B1	CORDLESS - 12 VOLT	14 OZ.	16 OZ.	5.6 OZ. / MIN.	1/8"-27 NPTF	6,500 PSI	19.0 LBS.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	VOLTS	INFORMATION
340911	A340911	REPLACEMENT BATTERY	12 VOLT	NICD BATTERY
340912	A340912	REPLACEMENT BATTERY	14.4 VOLT	NICD BATTERY
340913	A340913	AC CHARGER	12 / 14.4 V	ONE-HOUR CHARGER WITH 110 VOLT / 60 HZ AC INPUT
340916	A340916	DC CAR CHARGER	12 / 14.4 V	ONE-HOUR CHARGER WITH 12 VOLT DC INPUT
339812	A339812	GUN STRAP	□	REDUCES OPERATOR FATIGUE AND EASY HANGING STORAGE
340338	A340338	BATTERY POWERED GUN RELIEF VALVE	□	RELIEVES PRESSURE FROM CORDLESS GREASE GUN

Common Parts
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STANDARD - PISTOL-GRIP GREASE GUN

4,500 PSI

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

1 OZ PER 67 STROKES

DESIGNED FOR CONVENIENT ONE HAND OPERATION USE

EQUIPPED WITH PIPE AND 4 JAW COUPLER

NONSLIP TEXTURED FINISH



4,500 PSI



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
F103	AF103	PISTOL GRIP - STANDARD	14 OZ.	16 OZ.	1 OZ./67 STROKES	1/8"-21 NPTF	4,500 PSI	3.5 LBS.

MINI - PISTOL-GRIP GREASE GUN

2,900 PSI

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

1 OZ PER 67 STROKES

COMPACT TOOLBOX SIZE

FULL TYPE PISTOL GRIP STYLE HANDLE FOR ONE-HAND OPERATION



2,900 PSI



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
F104	AF104	MINI PISTOL GRIP	3 OZ.	4 OZ.	1 OZ./67 STROKES	1/8"-21 NPTF	2,900 PSI	1.8 LBS.

PROFESSIONAL - PISTOL-GRIP GREASE GUN

7,500 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

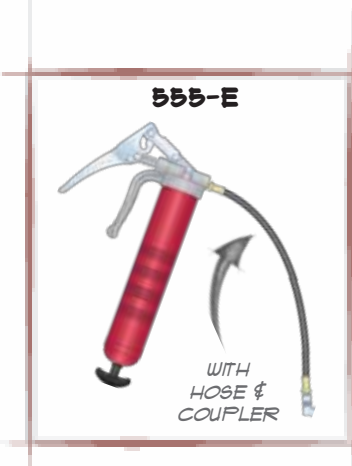
Pistol Grease Gun - PRIME
14 oz. Cartridge Capacity
1/8"-27 NPT with Pipe & Coupler
7,500 psi



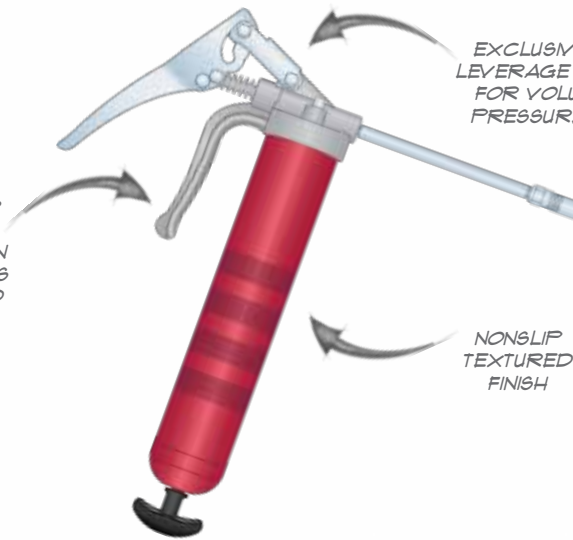
VOLUME MODE



PRESSURE MODE



DESIGNED FOR DURABILITY, THIS CAST IRON HANDLE ALLOWS FOR ONE-HAND OPERATION



7,500 PSI



CARTRIDGE LOAD



SUCTION LOAD

ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CART. CAP.	BULK CAP.	HIGH VOLUME DELIVERY	HIGH PRESSURE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
555	A555	PISTOL GRIP - PRIME	14 OZ.	16 OZ.	1 OZ/30 STROKES	1 OZ/67 STROKES	1/8"-27 NPT	7,500 PSI	3.6 LBS.
555-E	A555-E	PISTOL GRIP - PRIME	14 OZ.	16 OZ.	1 OZ/30 STROKES	1 OZ/67 STROKES	1/8"-27 NPT	7,500 PSI	4.0 LBS.



SPECIALTY - GREASE GUN

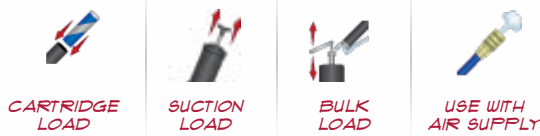
PNEUMATIC

6,000 PSI

F100

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

INTERMITTENT GREASE GUN TRIGGER WILL DISCHARGE GREASE WITH EVERY PRESS OF THE TRIGGER



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
F100	AF100	PNEUMATIC	14 OZ.	16 OZ.	1 OZ. / 7 CYCLES	1/8"-27 NPTF	6,000 PSI	4.1 LBS.

SCREW TYPE

C600

Screw Type Grease Gun - Standard Duty
8 oz. Capacity
1/8"-27 NPTF



OPERATION OF THE GUN IS ACHIEVED BY TURNING THE SCREW HANDLE TO DISPENSE LUBRICANT



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
C600	AC600	SCREW TYPE	□	8 OZ.	□	1/8"-27 NPTF	□	1.5 LBS.

SUCTION GUN

F105

Suction Gun
16 oz. Capacity
12" Flexible Vinyl Hose

THE ALEMITE® BRAND SUCTION GUN IS SUITABLE FOR DRAINING NON-CORROSIVE LUBRICANTS



ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
F105	AF105	SUCTION GUN	□	16 OZ.	□	□	□	2.2 LBS.

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SPECIALTY - GREASE GUN

OIL GUN

1,800 PSI

4035

Lever Oil Gun - Heavy Duty
26 oz. Bulk Capacity
1/8"-27 NPTF with Pipe & Coupler
1,800 psi



NONSLIP
TEXTURED
FINISH

HAND
LOAD

NOTE: THIS GUN USES OIL AND
MUST BE LOADED BY HAND

ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
4035	A4035	OIL GUN	□	26 OZ.	1 OZ. / 1 STROKES	1/8"-27 NPTF	1,800 PSI	5.3 LBS.

PUSH TYPE

4,200 PSI

7584

Grease Gun - Push Type
9 oz. Bulk Capacity
1/8"-27 NPTF with Pipe & Coupler
4,200 psi

COMES WITH
HYDRAULIC
COUPLER



SPECIFICALLY DESIGNED
FOR LUBRICATING
HYDRAULIC FITTINGS

SUCTION
LOAD

BULK
LOAD

ALEMITE® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
7584	A7584	PUSH TYPE	□	9 OZ.	□	1/8"-27 NPTF	4,200 PSI	2.3 LBS.

PUMPS

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

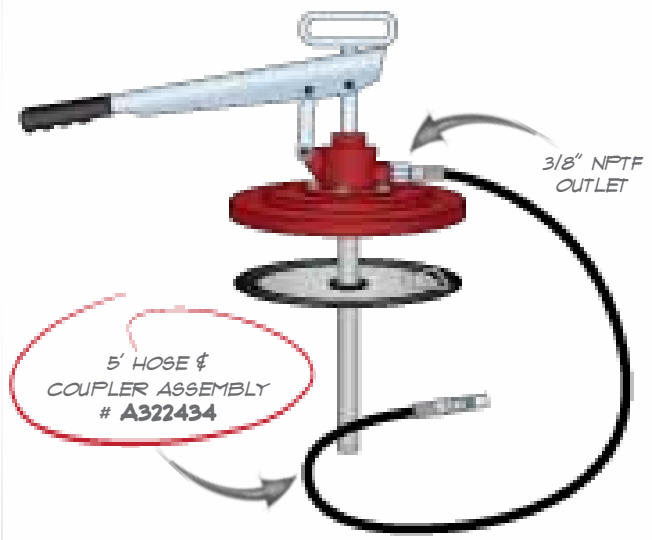


5,000 PSI

DRUM INCLUDED

7531-4

Manual Grease Pump Assembly
Fits 5 gal. Pail
3,500 psi



3,500 PSI



USE WITH PAIL

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	BARREL SIZE	WORKING PSI	SHIP WEIGHT
7149-4	A7149-4	MULTI-PRESSURE BUCKET PUMP	35 LB. CAPACITY	5,000 PSI / 2,500 PSI	18.0 LBS.
7531-4	A7531-4	MANUAL GREASE PUMP ASSEMBLY	FITS 5 GAL. PAIL	3,500 PSI	11.0 LBS.
322434	A322434	HYDRAULIC NARROW FITTING HOSE ASSEMBLY	☐	☐	☐
6617-G	A6617G	HYDRAULIC STANDARD FITTING HOSE ASSEMBLY	☐	☐	☐
6615-G	A6615G	GIANT BUTTON HEAD HOSE ASSEMBLY	☐	☐	☐
6616-G	A6616G	STANDARD BUTTON HEAD HOSE ASSEMBLY	☐	☐	☐
6711-5	A67115	PORTABLE CART	☐	☐	☐

SPARE PARTS

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.

B306140

Bulk Loader Fitting
1/8"-27 NPTF



B322610

Bulk Loader Fitting
1/8"-27 NPTF



FOR HEAVY WEIGHT GREASE

306141

Bulk Loader Coupler
3/8"-18 NPTF



FOR FILLER PUMPS

F331035

Grease Gun Holder



ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	THREAD	OVERALL LENGTH	DIAMETER
B306140	A306140	BULK LOADING FITTING	1/8"-27 NPTF	1 1/4"	.48"
B322610	A322610	BULK LOADING FITTING	1/8"-27 NPTF	1 3/8"	.48"
306141	A306141	BULK LOADING COUPLER	3/8"-18 NPTF	2"	.48"
F331035	AF331035	GREASE GUN HOLDER	□	□	□

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.



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MEDIUM DUTY HOSES

4,800 PSI

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



4,800 PSI



FOR HAND EQUIPMENT

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BURST PRESSURE
317850-1	A317850-1	FLEXIBLE GREASE HOSE - MEDIUM DUTY	12"	HAND	1/8"-27 NPTF	4,800 PSI	12,000 PSI
317850-1F	A317850-1F	FLEXIBLE GREASE HOSE - MEDIUM DUTY	18"	HAND	1/8"-27 NPTF	4,800 PSI	12,000 PSI
317850-2	A317850-2	FLEXIBLE GREASE HOSE - MEDIUM DUTY	24"	HAND	1/8"-27 NPTF	4,800 PSI	12,000 PSI
317850-3	A317850-3	FLEXIBLE GREASE HOSE - MEDIUM DUTY	36"	HAND	1/8"-27 NPTF	4,800 PSI	12,000 PSI

HEAVY DUTY HOSES

6,000 PSI

DIAGRAM

Flexible Grease Hose - Heavy Duty
1/8"-27 NPTF
6,000 psi



6,000 PSI



FOR HAND EQUIPMENT

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BURST PRESSURE
B337595-AI	AB337595-AI	FLEXIBLE GREASE HOSE - HEAVY DUTY	12"	HAND	1/8"-27 NPTF	6,000 PSI	12,000 PSI
B337595-BI	AB337595-BI	FLEXIBLE GREASE HOSE - HEAVY DUTY	18"	HAND	1/8"-27 NPTF	6,000 PSI	12,000 PSI

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.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	ANGLE	EQUIPMENT TYPE	THREAD	COUPLER INCLUDED
B6638	AB6638	RIGID PIPE EXTENSION - HEAVY DUTY	6.75"	ANGLE	AIR / BATT.	1/8"-27 NPTF	6304-B
B6638-A	AB6638-A	RIGID PIPE EXTENSION - HEAVY DUTY	6.625"	ANGLE	AIR / BATT.	1/8"-27 NPTF	308130
54269	A54269	RIGID PIPE EXTENSION - HEAVY DUTY	8"	ANGLE	AIR / BATT.	1/4"-18 NPTF	6304-B
6638-B	A6638-B	RIGID PIPE EXTENSION - HEAVY DUTY	12.125"	ANGLE	AIR / BATT.	1/8"-27 NPTF	308130
6279	A6279	RIGID PIPE EXTENSION - HEAVY DUTY	21"	ANGLE	AIR / BATT.	1/8"-27 NPTF	6304-B
339510	A339510	RIGID PIPE EXTENSION - HEAVY DUTY	6"	STRAIGHT	AIR / BATT.	1/8"-27 NPTF	308130

CONSIDER THIS...

ORDER A9:
A6304-B



ALEMITE® #
6304-B

COUPLERS

FOR A COMPLETE LISTING OF COUPLERS, SEE PAGES 230-233



ALEMITE® #
308130

ORDER A9:
A308130

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COUPLERS

CONVENTIONAL

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.

6304-B

Hydraulic Coupler - Standard
1/8"-27 NPTF
10,000 psi



WITH METAL SEAL
NO BALL CHECK

10,000 PSI 3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

6304-C

Hydraulic Coupler - Standard
1/8"-27 NPTF
10,000 psi



WITH METAL SEAL

10,000 PSI 3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

308130

Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



RUBBER SEAL
NO BALL CHECK

10,000 PSI 3 JAW CONSTRUCTION
FOR HAND EQUIPMENT

308130-A

Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



RUBBER SEAL

10,000 PSI 3 JAW CONSTRUCTION
FOR HAND EQUIPMENT

B330010

Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



WITH METAL SEAL
NO BALL CHECK

10,000 PSI 3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

B154

Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



RUBBER SEAL
NO BALL CHECK

10,000 PSI 3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	JAWS	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BALL CHECK
6304-B	A6304-B	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	NO
6304-C	A6304-C	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	YES
308130	A308130	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	HAND	1/8"-27 NPTF	10,000 PSI	NO
308130-A	A308130-A	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	HAND	1/8"-27 NPTF	10,000 PSI	YES
B330010	A330010	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	NO
B154	AB154	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	NO



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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.

322120

90° Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



10,000 PSI

RUBBER SEAL

NO BALL CHECK

3 JAW CONSTRUCTION
FOR HAND EQUIPMENT

6509-D

360° Swivel Hydraulic Coupler - Standard
1/8"-27 NPTF
10,000 psi



10,000 PSI

METAL SEAL

NO BALL CHECK

3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

6509-E

360° Swivel Hydraulic Coupler - Narrow
1/8"-27 NPTF
10,000 psi



10,000 PSI

RUBBER SEAL

NO BALL CHECK

3 JAW CONSTRUCTION
FOR AIR / BATTERY EQUIP.

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	JAWS	USE ON HAND / AIR & BATTERY EQUIP.	THREAD	WORKING PRESSURE	BALL CHECK
322120	A322120	HYDRAULIC COUPLER - 90° SWIVEL	3 JAW	HAND	1/8"-27 NPTF	10,000 PSI	NO
6509-D	A6509-D	HYDRAULIC COUPLER - 360° SWIVEL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	NO
6509-E	A6509-E	HYDRAULIC COUPLER - 360° SWIVEL	3 JAW	AIR / BATT.	1/8"-27 NPTF	10,000 PSI	NO



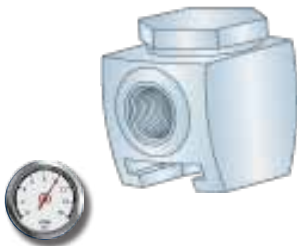
COUPLERS

BUTTON HEAD

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.

42030

Button Head Coupler
Pull-On
7/16"-27 UNS
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

42030-A

Button Head Coupler
Pull-On
1/8"-27 NPTF
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

42031-A

Button Head Coupler
Push-On
1/8"-27 NPTF
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

304301

Giant Button Head Coupler
Push-On
7/16"-27 UNS
15,000 psi



15,000 PSI FOR AIR / BATT. EQUIP.

319702

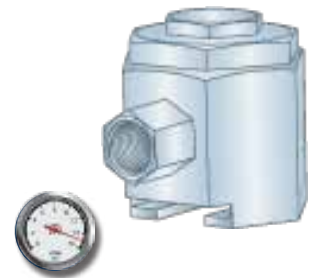
Giant Button Head Coupler
Pull-On
1/4" PTF SAE Short
15,000 psi



15,000 PSI FOR AIR / BATT. EQUIP.

304300-A

Giant Button Head Coupler
Pull-On
1/8"-27 NPTF
15,000 psi



15,000 PSI FOR AIR / BATT. EQUIP.

ALEMITE® ITEM #	G. L. HUYETT ORDER #	DESCRIPTION	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
42030	A42030	COUPLER - BUTTON HEAD PULL-ON	HAND	7/16"-27 UNS	10,000 PSI
42030-A	A42030A	COUPLER - BUTTON HEAD PULL-ON	HAND	1/8"-27 NPTF	10,000 PSI
42031-A	A42031A	COUPLER - BUTTON HEAD PUSH-ON	HAND	1/8"-27 NPTF	10,000 PSI
304301	A304301	COUPLER - GIANT BUTTON HEAD PUSH-ON	AIR / BATTERY	7/16"-27 UNS	15,000 PSI
319702	A319702	COUPLER - GIANT BUTTON HEAD PULL-ON	AIR / BATTERY	1/4" PTF SAE SHORT	15,000 PSI
304300-A	A304300A	COUPLER - GIANT BUTTON HEAD PULL-ON	AIR / BATTERY	1/8"-27 NPTF	15,000 PSI
304300	A304300	COUPLER - GIANT BUTTON HEAD PULL-ON	AIR / BATTERY	7/16"-27 UNS	15,000 PSI

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COUPLERS

FLUSH & PIN TYPE

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



FOR HAND EQUIPMENT

314150

Flush Type Coupler - Midget for 1877
1/8"-27 NPTF



FOR HAND EQUIPMENT

B411

Rubber Tip Nozzle
1/8"-27 NPTF
4.5" Needle



DISCONTINUED
SEE PG. 122

FOR HAND EQUIPMENT

50491

Pin Type Coupler - Male with Wing
1/8"-27 NPTF
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

51185

Pin Type Coupler - Female with Wing
1/8"-27 NPTF
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

VB942

Pin Type Coupler - Female
1/8"-27 NPTF
10,000 psi



10,000 PSI FOR HAND EQUIPMENT

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"	ø.213"	□
314150	A314150	COUPLER - MIDGET FLUSH TYPE FEMALE	HAND	1/8"-27 NPTF	1.0"	ø.08"	□
B411	AB411	RUBBER TIP NOZZLE - FEMALE	HAND	1/8"-27 NPTF	5"	□	□
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

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

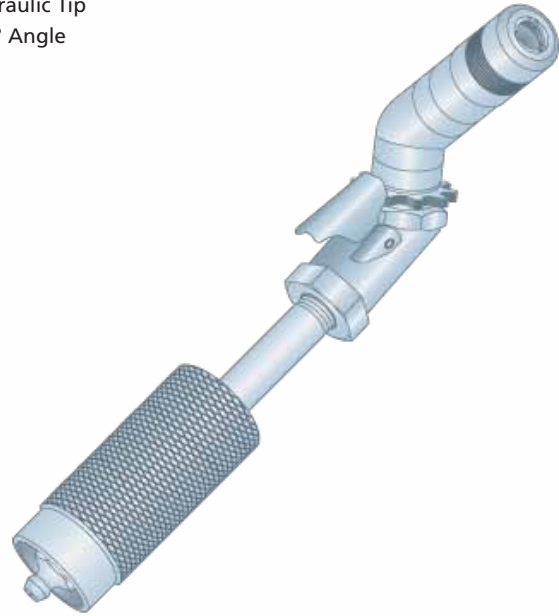
Quick Connect Coupler
Injector Needle Tip
Straight



FOR HAND EQUIPMENT

6278

Quick Connect Coupler
Hydraulic Tip
360° Angle



3 JAW CONSTRUCTION

FOR HAND EQUIPMENT

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	JAWS	ANGLE	EQUIPMENT TYPE	TIP
B200	AB200	QUICK CONNECT INJECTOR NEEDLE	□	STRAIGHT	HAND	INJECTOR NEEDLE
6278	A6278	QUICK CONNECT COUPLER	3 JAW	360° □	HAND	HYDRAULIC

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



REQUIRES A
GREASE METER
ADAPTER KIT
(LISTED BELOW)

1745-20GR001

Single Point Lubricator - Disposable
Reservoir Capacity: 4.06 oz.
1/4"-18 NPTF
20 psi



AUTOMATIC

1746-151

Single Point Lubricator - Refillable
Reservoir Capacity: 5 oz.
1/2"-14 NPTF
75 psi



AUTOMATIC

ALEMITE® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	THREAD	RESERVOIR CAPACITY	OPERATING PRESSURE
3530	A3530	ELECTRONIC GREASE METER	1/8"-27 NPTF	□	10,000 PSI
41531	A41531	GREASE METER ADAPTER FOR GUNS: 500, 525 & 550	1/8"-27 NPTF	□	□
340062	A340062	GREASE METER ADAPTER FOR 515 & 535 SERIES GUNS	1/8"-27 NPTF	□	□
327899-6	A327899-6	GREASE METER ADAPTER FOR 1056 & 4015 SERIES GUNS	1/8"-27 NPTF	□	□
306722	A306722	GREASE METER ADAPTER FOR GUNS 6243-J3 & 6673-J3	1/8"-27 NPTF	□	□
340180	A340180	GREASE METER ADAPTER LINCOLN® GUNS	1/8"-27 NPTF	□	□
1745-20GR001	A1745-20GR001	SINGLE POINT LUBRICATOR DISPOSABLE	1/4"-18 NPTF	4.06 OZ.	20 PSI
1746-151	A1746-151	SINGLE POINT LUBRICATOR REFILLABLE	1/2"-14 NPTF	5 OZ.	75 PSI

SERVICE SUGGESTION



USING A GREASE METER & MOUNTING KIT
TO ACCURATELY DELIVER JUST THE RIGHT
AMOUNT PREVENTS OVER LUBRICATION AND
POSSIBLE DAMAGE TO COMPONENTS

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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Case IH®
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ITEMS ARE NOT PICTURED.

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.

OPENING PRESSURE



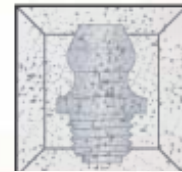
BLOWOUT



HARDNESS



SALT SPRAY

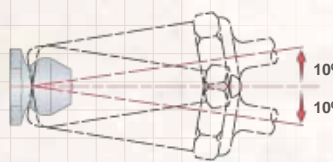


OPERATION

- 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



GASOLINE LEAKAGE

TEST ONLY APPLIES TO FITTINGS CONTAINING RUBBER BALL CHECKS.



LUBRICANT LEAKAGE



ACCELERATED AGING

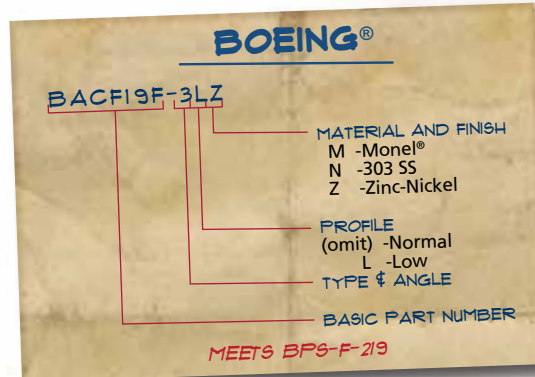
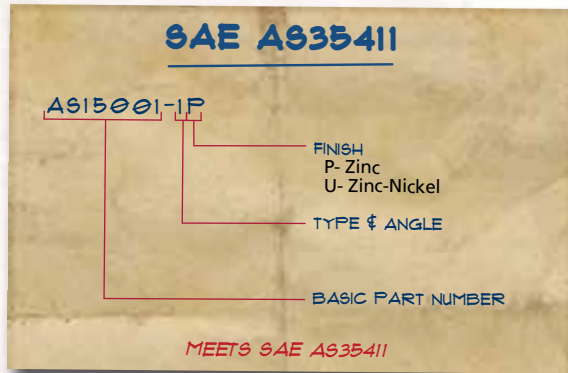
TEST ONLY APPLIES TO FITTINGS CONTAINING RUBBER BALL CHECKS.





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

AS NUMBER	DESCRIPTION	OBSOLETE MS NUMBER	BOEING® NUMBER	ALEMITE® NUMBER	HUYETT NUMBER	CATALOG PAGE
AS15001-1P	Straight 1/4"-28 Taper Thread	MS15001-1	□	1641-AS	A1641-AS	238
AS15001-2P	Straight 1/4-28" Taper Thread	MS15001-2	□	1680-AS	A1680-AS	238
AS15001-3P	45° Angle 1/4-28" Taper Thread	MS15001-3	□	1637-AS	A1637-AS	238
AS15001-4P	90° Angle 1/4-28" Taper Thread	MS15001-4	□	1911-AS	A1911-AS	238
AS15003-1P	Straight 1/8" PTF Spl. Short	MS15003-1	□	1610-AS	A1610-AS	240
AS15003-2P	Straight 1/8" PTF Spl. Short	MS15003-2	□	1607-AS	A1607-AS	240
AS15006-1P	Straight 1/8" PTF Short Leak Proof	MS15006-1	□	1650-AS	A1650-AS	240
AS15003-3P	30° Angle 1/8" PTF Spl. Short	MS15003-3	□	1611-AS	A1611-AS	241
AS15006-2P	30° Angle 1/8" NPTF Leak Proof	MS15006-2	□	1692-AS	A1692-AS	240
AS15003-4P	45° Angle 1/8" PTF Spl. Short	MS15003-4	□	1688-AS	A1688-AS	241
AS15003-5P	65° Angle 1/8" PTF Spl. Short	MS15003-5	□	1612-AS	A1612-AS	241
AS15003-6P	90° Angle 1/8" PTF Spl. Short	MS15003-6	□	1613-AS	A1613-AS	241
AS15006-4P	90° Angle 1/8" NPTF Leak Proof	MS15006-4	□	1693-AS	A1693-AS	240
AS15002-1P	Straight 1/4-28" UNF	MS15002-1	□	1792-AS	A1792-AS	239
AS15002-3P	45° Angle 1/4-28" UNF	MS15002-3	□	1770-AS	A1770-AS	239
AS15120-1	Straight 1/4-28" Taper Thread	MS15120-1	□	1966-AS2	A1966-AS2	242
AS15120-2	45° Angle 1/4-28" Taper Thread	MS15120-2	□	1968-AS2	A1968-AS2	242
AS15120-3	90° Angle 1/4-28" Taper Thread	MS15120-3	□	1969-AS2	A1969-AS2	242
AS15121-1	Straight 1/8" PTF Spl. Extra Short	MS15121-1	□	1961-AS2	A1961-AS2	242
AS15121-3	30° Angle 1/8" PTF Spl. Short	MS15121-3	□	1921-AS2	A1921-AS2	242
AS15121-4	65° Angle 1/8" PTF Spl. Short	MS15121-4	□	1922-AS2	A1922-AS2	242
AS15121-5	90° Angle 1/8" PTF Spl. Short	MS15121-5	□	1923-AS2	A1923-AS2	242
AS15004-1	Straight 1/4-28" Taper Thread	MS15004-1	BACF19G-1L	1966-AS3	A1966-AS3	243
AS15004-2	45° Angle 1/4-28" Taper Thread	MS15004-2	BACF19G-2L	1968-AS3	A1968-AS3	243
AS15004-3	90° Angle 1/4-28" Taper Thread	MS15004-3	BACF19G-3L	1969-AS3	A1969-AS3	243
AS15005-1	Straight 1/8" PTF Spl. Extra Short	MS15005-1	□	1961-AS3	A1961-AS3	243
AS15005-3	30° Angle 1/8" PTF Spl. Short	MS15005-3	□	1921-AS3	A1921-AS3	243
AS15005-4	65° Angle 1/8" PTF Spl. Short	MS15005-4	□	1922-AS3	A1922-AS3	243
AS15005-5	90° Angle 1/8" PTF Spl. Short	MS15005-5	□	1923-AS3	A1923-AS3	243

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1/4"-28 SAE-LT

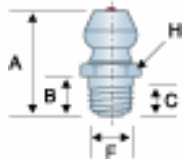
SAE AS35411

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

A1641-AS

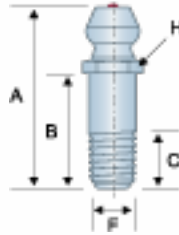
Aerospace - Straight
1/4"-28 Taper Thread
Standard Shank



A 1641-AS
SAE AS15001-1P
MS MS15001-1
+ AVAILABLE IN STAINLESS
+ AVAILABLE IN MONEL®

A1680-AS

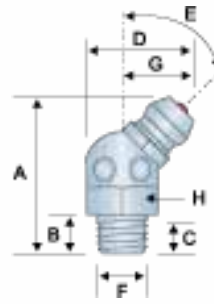
Aerospace - Straight
1/4"-28 Taper Thread
Extra Long Shank



A 1680-AS
SAE AS15001-2P
MS MS15001-2

A1637-AS

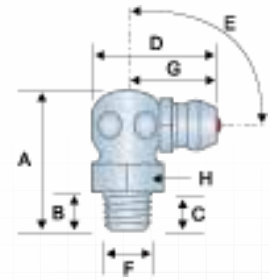
Aerospace - 45° Angle
1/4"-28 Taper Thread
Standard Shank



A 1637-AS
SAE AS15001-3P
MS MS15001-3
+ AVAILABLE IN STAINLESS
+ AVAILABLE IN MONEL®

A1911-AS

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



A 1911-AS
SAE AS15001-4P
MS MS15001-4
+ AVAILABLE IN STAINLESS
+ AVAILABLE IN MONEL®

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)
A1641-AS	1/4"-28	STRAIGHT	0.50"	0.19"	.11"	□	.25"	□	5/16"
A1680-AS	1/4"-28	STRAIGHT	0.93"	0.63"	.21"	□	.25"	□	5/16"
A1637-AS	1/4"-28	45°	0.81"	0.19"	.11"	.58"	.25"	.39"	3/8"
A1911-AS	1/4"-28	90°	0.78"	0.18"	.11"	.69"	.25"	.50"	3/8"

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.

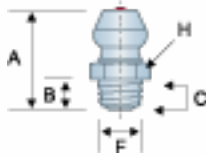
1/4"-28 PARALLEL

SAE AS35411

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.

A1792-AS

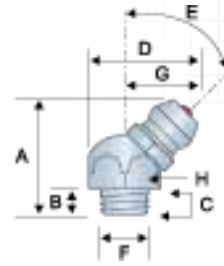
Aerospace - Straight
1/4"-28 UNF
Standard Shank



A 1792-AS
SAE AS15002-1P
MS MS15002-1

A1710-AS

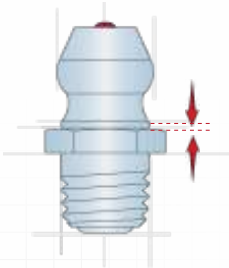
Aerospace - 45° Angle
1/4"-28 UNF
Short Shank



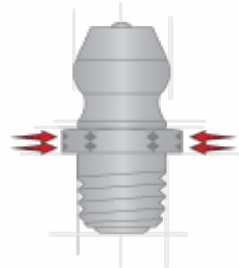
A 1710-AS
SAE AS15002-3P
MS MS15002-3

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)
A1792-AS	1/4"-28	STRAIGHT	0.53"	0.13"	.10"	□	.25"	□	9/32"
A1710-AS	1/4"-28	45°	0.75"	0.13"	.11"	.60"	.25"	.41"	3/8"

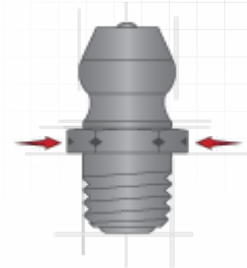
IDENTIFICATION



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

1/8"-27 PTF

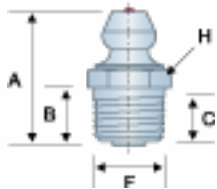
SAE AS35411

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

AI610-AS

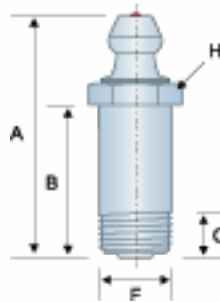
Aerospace - Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank



A 1610-AS
SAE AS15003-1P
MS MS15003-1

AI607-AS

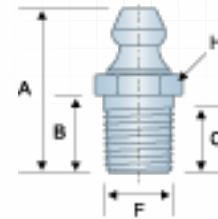
Aerospace - Straight
1/8"-27 PTF Spl. Short
Extra Long Shank



A 1607-AS
SAE AS15003-2P
MS MS15003-2

AI650-AS

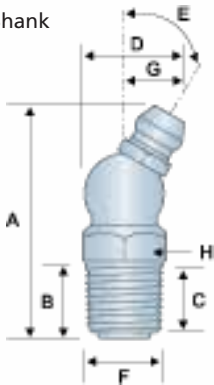
Aerospace - Straight Leak Proof
1/8"-27 PTF Short
Long Shank



A 1650-AS
SAE AS15006-1P
MS MS15006-1

AI692-AS

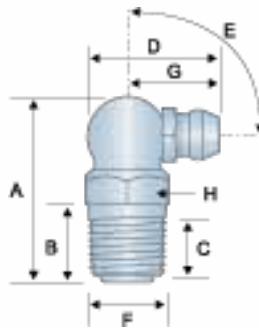
Aerospace - 30° Angle Leak Proof
1/8"-27 NPTF
Long Shank



A 1692-AS
SAE AS15006-2P
MS MS15006-2

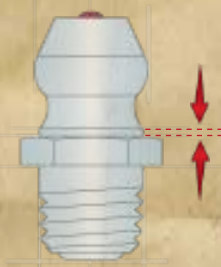
AI693-AS

Aerospace - 90° Angle Leak Proof
1/8"-27 NPTF
Long Shank



A 1693-AS
SAE AS15006-4P
MS MS15006-4

IDENTIFICATION



ALEMITE® AEROSPACE FITTINGS
HAVE AN IDENTIFICATION
NOTCH ABOVE THE HEX FOR
POSITIVE IDENTIFICATION.

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)
AI610-AS	1/8"-27	STRAIGHT	0.68"	0.28"	.15"	□	.39"	□	7/16"
AI607-AS	1/8"-27	STRAIGHT	1.25"	0.75"	.19"	□	.39"	□	7/16"
AI650-AS	1/8"-27	STRAIGHT	0.93"	0.38"	.23"	□	.39"	□	7/16"
AI692-AS	1/8"-27	30° □	1.31"	0.38"	.27"	.55"	.39"	.33"	7/16"
AI693-AS	1/8"-27	90° □	1.00"	0.38"	.27"	.74"	.39"	.52"	7/16"

1/8"-27 PTF

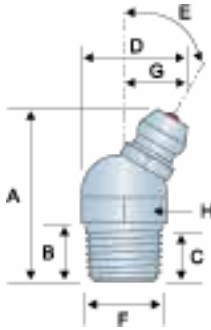
SAE AS35411

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 and accelerated age. The Aerospace part numbering system closely mimics that of the old Military standard.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

A1611-AS

Aerospace - 30° Angle
1/8"-27 PTF Spl. Short
Standard Shank

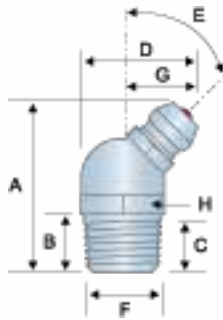


A 1611-AS
SAE AS15003-3P
MS MS15003-3

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

A1688-AS

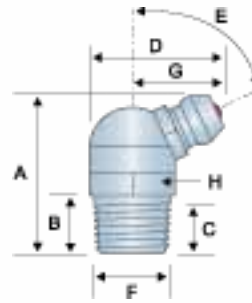
Aerospace - 45° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1688-AS
SAE AS15003-4P
MS MS15003-4

A1612-AS

Aerospace - 65° Angle
1/8"-27 PTF Spl. Short
Standard Shank

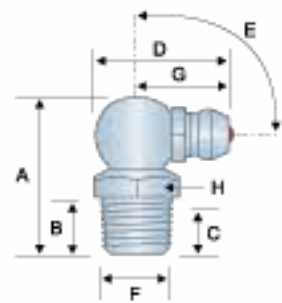


A 1612-AS
SAE AS15003-5P
MS MS15003-5

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

A1613-AS

Aerospace - 90° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1613-AS
SAE AS15003-6P
MS MS15003-6

✦ AVAILABLE IN STAINLESS
✦ AVAILABLE IN MONEL®

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)
A1611-AS	1/8"-27	30°	1.15"	0.28"	.19"	.56"	.39"	.34"	7/16"
A1688-AS	1/8"-27	45°	1.09"	0.28"	.19"	.64"	.39"	.42"	7/16"
A1612-AS	1/8"-27	65°	0.96"	0.28"	.19"	.72"	.39"	.50"	7/16"
A1613-AS	1/8"-27	90°	0.93"	0.28"	.19"	.73"	.39"	.51"	7/16"


AEROSPACE TESTING REQUIREMENTS

QUALITY ASSURANCE

- OPENING PRESSURE
- HARDNESS
- BLOWOUT
- SALT SPRAY

OPERATION

- EXTREME ANGULAR POSITION
- LUBRICANT LEAKAGE
- GASOLINE LEAKAGE
- ACCELERATED AGE

 Common Parts
Parts with this designation
are in wide distribution.

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

 SAE International®
SAE® is a registered trademark
of SAE International.

 MS
Military
Specification

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Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
Monel® is a registered trademark of the Inco Alloys, International, Inc.

STAINLESS STEEL

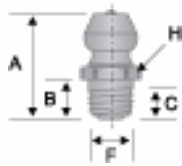
SAE A535411

In accordance to the SAE A535411 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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

AI966-AS2

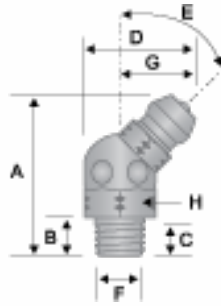
Aerospace - Straight
1/4"-28 Taper Thread
Standard Shank



A 1966-AS2
SAE ASI5120-1
MS MSI5120-1

AI968-AS2

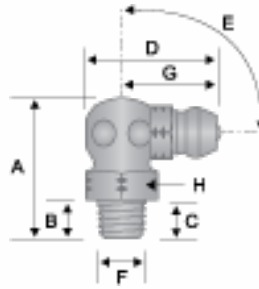
Aerospace - 45° Angle
1/4"-28 Taper Thread
Standard Shank



A 1968-AS2
SAE ASI5120-2
MS MSI5120-2

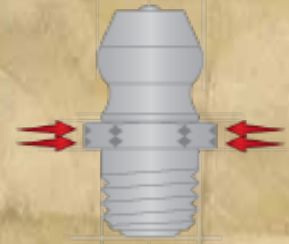
AI969-AS2

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



A 1969-AS2
SAE ASI5120-3
MS MSI5120-3

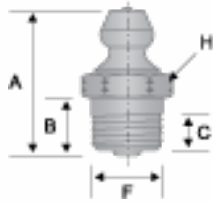
IDENTIFICATION



AEROSPACE
STAINLESS STEEL FITTINGS
HAVE TWO IDENTIFICATION
NOTCHES ON THE HEX.

AI961-AS2

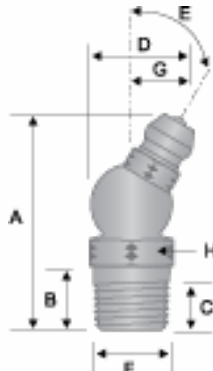
Aerospace - Straight
1/8"-27 PTF Spl. Ex. Short
Standard Shank



A 1961-AS2
SAE ASI5121-1
MS MSI5121-1

AI921-AS2

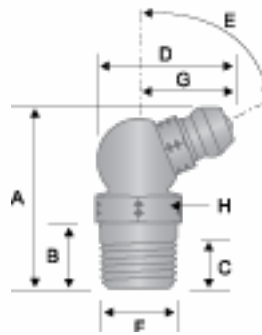
Aerospace - 30° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1921-AS2
SAE ASI5121-3
MS MSI5121-3

AI922-AS2

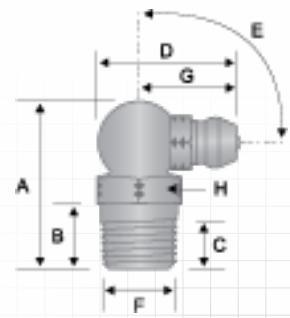
Aerospace - 65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1922-AS2
SAE ASI5121-4
MS MSI5121-4

AI923-AS2

Aerospace - 90° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1923-AS2
SAE ASI5121-5
MS MSI5121-5

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)
AI966-AS2	1/4"-28	STRAIGHT	0.50"	0.19"	.11"	□	.25"	□	5/16"
AI968-AS2	1/4"-28	45°	0.81"	0.19"	.11"	.58"	.25"	.39"	3/8"
AI969-AS2	1/4"-28	90°	0.78"	0.19"	.11"	.69"	.25"	.50"	3/8"
AI961-AS2	1/8"-27	STRAIGHT	0.75"	0.28"	.16"	□	.39"	□	7/16"
AI921-AS2	1/8"-27	30°	1.25"	0.38"	.19"	.56"	.39"	.34"	7/16"
AI922-AS2	1/8"-27	65°	1.09"	0.38"	.19"	.72"	.39"	.50"	7/16"
AI923-AS2	1/8"-27	90°	1.06"	0.38"	.19"	.73"	.39"	.51"	7/16"

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MONEL[®]

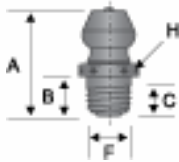
SAE AS35411

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

A1966-AS3

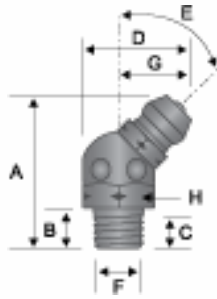
Aerospace - Straight
1/4"-28 Taper Thread
Standard Shank



A 1966-AS3
SAE AS15004-1
MS MS15004-1

A1968-AS3

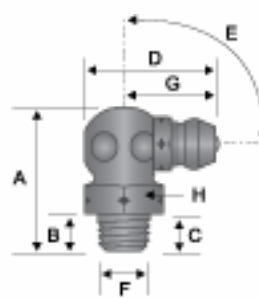
Aerospace - 45° Angle
1/4"-28 Taper Thread
Standard Shank



A 1968-AS3
SAE AS15004-2
MS MS15004-2

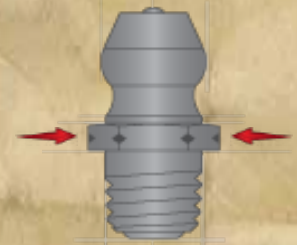
A1969-AS3

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



A 1969-AS3
SAE AS15004-3
MS MS15004-3

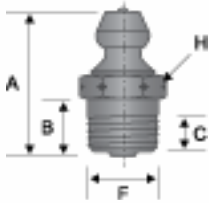
IDENTIFICATION



AEROSPACE MONEL[®]
FITTINGS HAVE A
SINGLE IDENTIFICATION
NOTCH ON THE HEX.

A1961-AS3

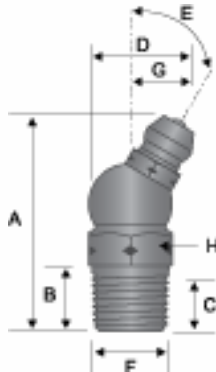
Aerospace - Straight
1/8"-27 PTF Spl. Ex. Short
Standard Shank



A 1961-AS3
SAE AS15005-1
MS MS15005-1

A1921-AS3

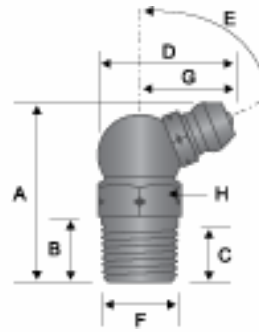
Aerospace - 30° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1921-AS3
SAE AS15005-3
MS MS15005-3

A1922-AS3

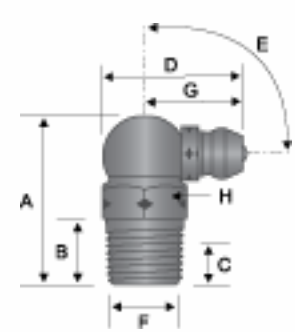
Aerospace - 65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1922-AS3
SAE AS15005-4
MS MS15005-4

A1923-AS3

Aerospace - 90° Angle
1/8"-27 PTF Spl. Short
Standard Shank



A 1923-AS3
SAE AS15005-5
MS MS15005-5

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)
A1966-AS3	1/4"-28	STRAIGHT	0.50"	0.19"	.11"	□	.25"	□	5/16"
A1968-AS3	1/4"-28	45°	0.81"	0.19"	.11"	.58"	.25"	.39"	3/8"
A1969-AS3	1/4"-28	90°	0.76"	0.19"	.11"	.69"	.25"	.50"	3/8"
A1961-AS3	1/8"-27	STRAIGHT	0.75"	0.312"	.19"	□	.39"	□	7/16"
A1921-AS3	1/8"-27	30°	1.25"	0.312"	.19"	.56"	.39"	.34"	7/16"
A1922-AS3	1/8"-27	65°	1.09"	0.312"	.19"	.72"	.39"	.50"	7/16"
A1923-AS3	1/8"-27	90°	1.06"	0.312"	.19"	.73"	.39"	.51"	7/16"

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Alemite[®] is a registered trademark of Alemite, LLC, Johnson City, TN, USA.
Monel[®] is a registered trademark of the Inco Alloys, International, Inc.

ABOUT THE COMPANY



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™.



COAL CAR LUBRICATION SYSTEM

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.



AN EARLY 1900'S LINCOLN® LUBRICATION SYSTEM

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.

G.L. HUYETT IS AN AUTHORIZED VOLUME DISTRIBUTOR FOR LINCOLN INDUSTRIAL®

Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2011

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

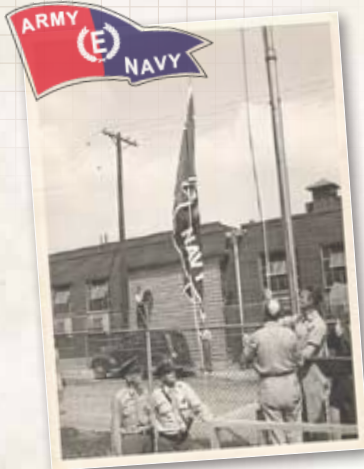
Alemite® is a registered trademark of Alemite, LLC, Johnson City, TN, USA.

Harbour Group® is a registered trademark of Harbour Group, LLC, St. Louis, MO, USA.



REVISED 06-11

LINCOLN® IN WAR TIMES



E-AWARD FLAG BEING RAISED

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 ordinance 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.

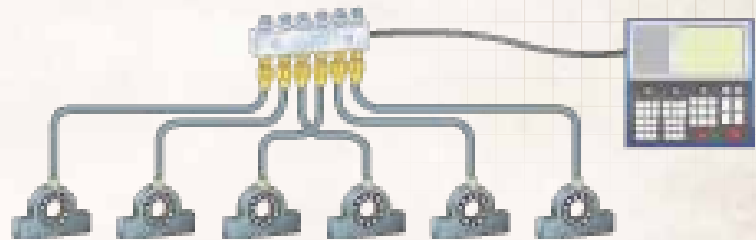
PRODUCT OFFERING

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.

INNOVATION

Lincoln is continually innovating and adding new products. Among the more exciting recent additions are premium clear grease guns as found on pages 270-271 of this catalog.

LINCOLN INDUSTRIAL IS ISO 9001 REGISTERED.



LINCOLN'S AUTOMATIC SYSTEMS ARE SOLD THROUGH MANY DIFFERENT CHANNELS FOR RETAIL CUSTOMERS AND USERS. FOR INFORMATION ON THE AUTOMATIC SYSTEMS, PLEASE CONTACT OUR SALES TEAM TODAY!



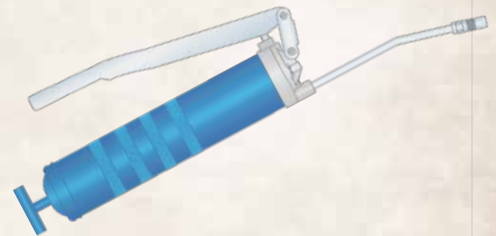
BULLNECK DESIGN

LINCOLN OFFERS A NEAR COMPLETE LINE OF PARTS, ALL ENCOMPASSING THE "BULLNECK" DESIGN FOR WHICH THE COMPANY IS KNOWN. THE HEAD CONFIGURATION OF KLEENSEAL™ FITTINGS IS SLIGHTLY DIFFERENT THAN MOST DESIGNS, BUT IS LISTED IN SAE J534C.



POWERMASTER

THE RENOWNED POWERMASTER AND PILEDRIVER® PUMPS WILL MEET ALMOST ANY NEED, AND CAN ACCOMMODATE A WIDE RANGE OF FLUIDS.




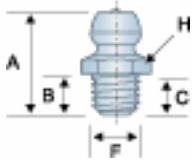
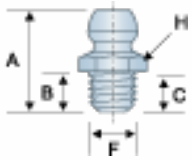


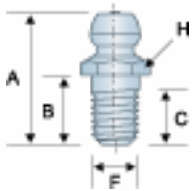

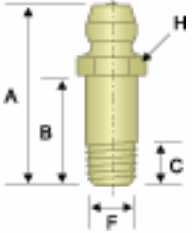

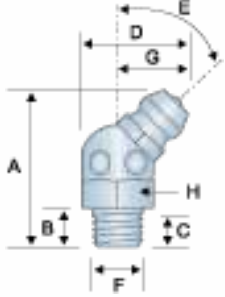
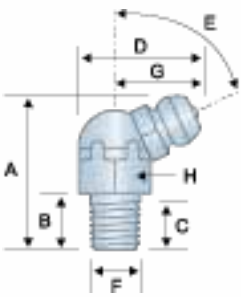

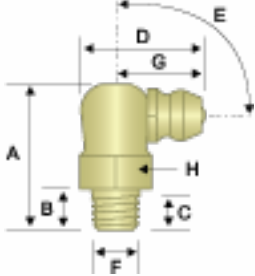

GUARDIAN® LINE

LINCOLN HAS A DIVERSE LINE OF GREASE GUNS, BULK HANDLING EQUIPMENT, AND ALL OF THE ACCESSORIES TO SUPPORT MOST OPERATIONS. THE GUARDIAN ECONOMY LINE IS AVAILABLE BY SPECIAL REQUEST.

1/4"-28 SAE-LT

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE


<p>5010 </p> <p>Straight 1/4"-28 Taper Thread Standard Shank</p>  <p>GM 211287 GM/CH 9411021 F 87907-38 + AVAILABLE IN STAINLESS</p>	<p>5010-1</p> <p>Straight 1/4"-28 Taper Thread Standard Shank</p>  <p> NO BALL CHECK</p>	<p>5013 </p> <p>Straight 1/4"-28 Taper Thread Long Shank</p>  <p>GM 213326 GM/CH 9411028</p>	<p>5014 </p> <p>Straight 1/4"-28 Taper Thread Extra Long Shank</p>  <p>GM 211288 GM/CH 9411029</p>
<p>5210 </p> <p>45° Angle 1/4"-28 Taper Thread Standard Shank</p>  <p>GM 214508 GM/CH 9411030 + AVAILABLE IN STAINLESS</p>	<p>700396</p> <p>65° Angle 1/4"-28 Taper Thread Long Shank</p> 	<p>5410 </p> <p>90° Angle 1/4"-28 Taper Thread Standard Shank</p>  <p>GM 214510 GM/CH 9411032 + AVAILABLE IN STAINLESS</p>	 <p>SPECIAL PARTS</p> <p>LOOKING FOR SOMETHING SPECIAL?</p> <p>CALL THE G.L. HUYETT SALES TEAM, AND WE WILL FIND IT FOR YOU!</p>

LINCOLN® 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)
5010	* L1641	1/4"-28	STRAIGHT	.52"	.11"	.10"	□	.25"	□	5/16"
5010-1	L1641N	1/4"-28	STRAIGHT	.55"	.22"	.15"	□	.25"	□	5/16"
5013	* L1652	1/4"-28	STRAIGHT	.69"	.36"	.20"	□	.25"	□	5/16"
5014	* L1680	1/4"-28	STRAIGHT	.94"	.61"	.20"	□	.25"	□	5/16"
5210	* L1637	1/4"-28	45°	.81"	.20"	.14"	.58"	.25"	.33"	3/8"
700396	L3010	1/4"-28	65°	.78"	.30"	.20"	.66"	.25"	.41"	3/8"
5410	* L1911	1/4"-28	90°	.75"	.19"	.16"	.66"	.25"	.41"	3/8"

 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.

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

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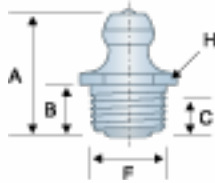
1/8"-27 PTF

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

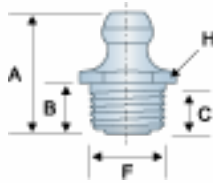
Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank



GM 191758
GM/CH 9411010
IH 138332-H
+ AVAILABLE IN STAINLESS

5000-1

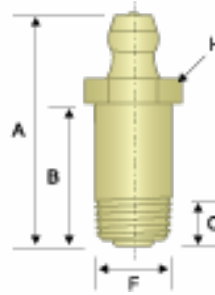
Straight
1/8"-27 PTF Spl. Extra Short
Standard Shank



NO BALL CHECK

5003

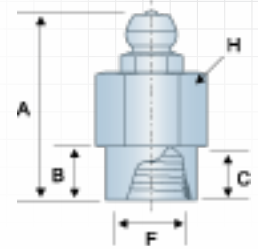
Straight
1/8"-27 PTF Spl. Short
Extra Long Shank



GM 211281
GM/CH 9411011

5505

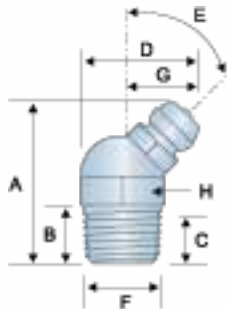
Straight
1/8"-27 NPTF
Female Threads



GM 213350
GM/CH 9411026

5200

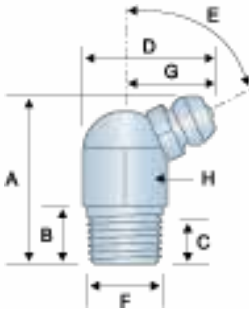
45° Angle
1/8"-27 PTF Spl. Short
Standard Shank



GM 211283
GM/CH 9411016
IH 80717

5300

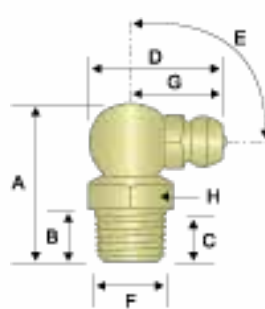
65° Angle
1/8"-27 PTF Spl. Short
Standard Shank



GM 211284
GM/CH 9411017

5400

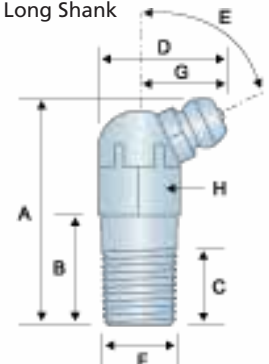
90° Angle
1/8"-27 PTF Spl. Short
Standard Shank



GM 211285
GM/CH 9411019
IH 219-55

5308

65° Angle
1/8"-27 PTF Spl. Short
Long Shank



GM 213351
GM/CH 9411018

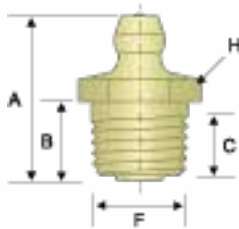
LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
5000 *	L1610	1/8"-27	STRAIGHT	.64"	.29"	.18"	□	.39"	□	7/16"
5000-1	L1610N	1/8"-27	STRAIGHT	.66"	.31"	.18"	□	.39"	□	7/16"
5003 *	L1607	1/8"-27	STRAIGHT	1.25"	.78"	.22"	□	.39"	□	7/16"
5505	L1618	1/8"-27	STRAIGHT	1.00"	.31"	.28"	□	.39"	□	1/2"
5200 *	L1688	1/8"-27	45°	.88"	.28"	.22"	.64"	.39"	.42"	7/16"
5300	L1612	1/8"-27	65°	.88"	.28"	.22"	.72"	.39"	.50"	7/16"
5400 *	L1613	1/8"-27	90°	.84"	.28"	.22"	.73"	.39"	.50"	7/16"
5308	L1623	1/8"-27	65°	1.19"	.56"	.25"	.72"	.39"	.50"	7/16"

1/4"-18 PTF

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.

5050

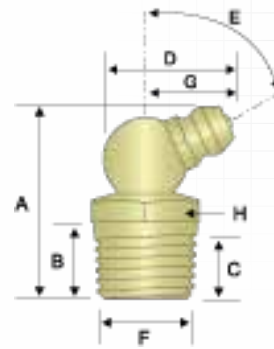
Straight
1/4"-18 NPTF
Standard Shank



GM 273349

5350

65° Angle
1/4"-18 NPTF
Standard Shank



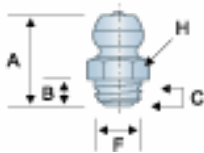
LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	THREAD DIAMETER (F)	SWING CLEARANCE (G)	HEX (H)
5050	* L1621	1/4"-18	STRAIGHT	.83"	.38"	.34"	□	.52"	□	9/16"
5350	* L1629	1/4"-18	65°	1.03"	.38"	.30"	.81"	.53"	.56"	9/16"

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.

5521

Straight
1/4"-28 UNF
Standard Shank



GM 271291
GM/CH 9411244

✦ AVAILABLE IN STAINLESS

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!

LINCOLN® 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)
5521	* L1792	1/4"-18	STRAIGHT	.55"	.11"	.08"	□	.25"	□	9/32"

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

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REVISED 06-11

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

FOR MORE INFORMATION,
PLEASE SEE PG. 30-31

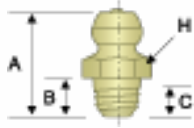
SPIN-DRIVE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

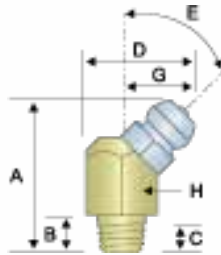
205010

Straight
1/4"-28 Thread Forming
Standard Shank



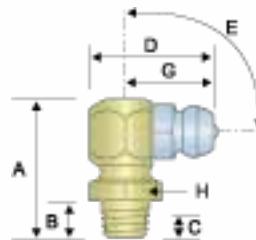
205210

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



205410

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



PLEASE NOTE

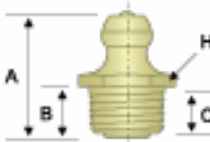
HOLE SIZES PROVIDED
ARE FOR REFERENCE.

TESTING IS REQUIRED
TO ENSURE RELIABILITY
IN THE FIELD.

SPIN-DRIVE FITTINGS ARE
NOT RECOMMENDED FOR
BRITTLE MATERIALS.

205000

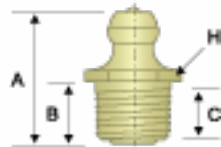
Straight
1/8"-27 Thread Forming
Standard Shank



GM 213321
GM/CH 9411022

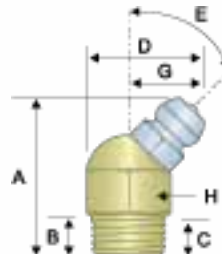
247235

Straight
1/8"-27 Thread Forming
Long Shank



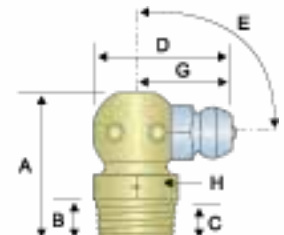
205200

45° Angle
1/8"-27 Thread Forming
Standard Shank



205400

90° Angle
1/8"-27 Thread Forming
Standard Shank



GM 213324
GM/CH 9411025

LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	HEX (H)
205010 *	L3038	1/4"-28	STRAIGHT	.56"	.19"	.10"	□	□	5/16"
205210 *	L3053	1/4"-28	45°	.81"	.20"	.10"	.58"	.39"	3/8"
205410 *	L3054	1/4"-28	90°	.75"	.19"	.16"	.66"	.41"	3/8"
205000	L1720	1/8"-27	STRAIGHT	.63"	.25"	.14"	□	□	7/16"
247235	L247235	1/8"-27	STRAIGHT	.70"	.33"	.14"	□	□	7/16"
205200	L1724	1/8"-27	45°	.84"	.20"	.14"	.65"	.42"	7/16"
205400	L1723	1/8"-27	90°	.76"	.20"	.14"	.74"	.51"	7/16"

NOTE: 1/4"-28 APPROXIMATE HOLE SIZE 0.230-0.235"

NOTE: 1/8"-27 APPROXIMATE HOLE SIZE 0.313-0.380"

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

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PLEASE SEE PG. 30-31

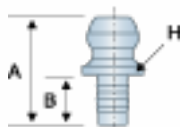
DRIVE TYPE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

5012

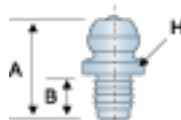
Straight Drive Type
≈ 5/32" Drill Size
Long Shank



 NO BALL CHECK

5033

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



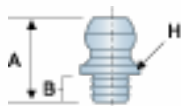
 AVAILABLE IN STAINLESS

PLEASE NOTE

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

700375

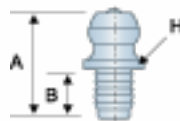
Straight Drive Type
≈ 3/16" Drill Size
Standard Shank



 NO BALL CHECK

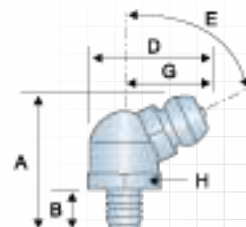
700504

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



5385

65° Angle Drive Type
≈ 3/16" Drill Size
Standard Shank



LINCOLN® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
5012	L5012	≈ 5/32" DRILL	STRAIGHT	.56"	.25"	□	□	5/16"	NO
5033	L1728	≈ 3/16" DRILL	STRAIGHT	.51"	.23"	□	□	5/16"	YES
700375	L3005	≈ 3/16" DRILL	STRAIGHT	.44"	.13"	□	□	5/16"	NO
700504	L700504	≈ 3/16" DRILL	STRAIGHT	.56"	.25"	□	□	5/16"	YES
5385	L1646	≈ 3/16" DRILL	65°	.72"	.22"	.63"	.50"	3/8" HEX	YES

 Common Parts
Parts with this designation are in wide distribution.

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PLEASE SEE PG. 30-31

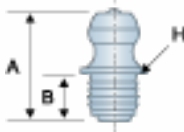
DRIVE TYPE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

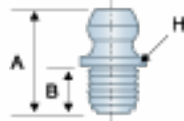
5029

Straight Drive Type
≈ 1/4" Drill Size
Long Shank



5044

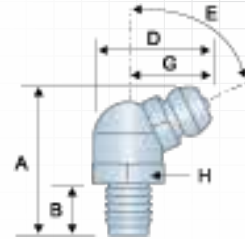
Straight Drive Type
≈ 1/4" Drill Size
Long Shank



 NO BALL CHECK

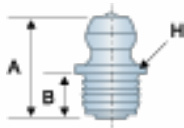
5318

65° Angle Drive Type
≈ 1/4" Drill Size
Long Shank



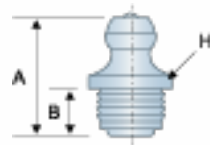
5031

Straight Drive Type
≈ 5/16" Drill Size
Standard Shank



5036

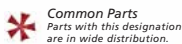
Straight Drive Type
≈ 3/8" Drill Size
Standard Shank



PLEASE NOTE

DRIVE TYPE FITTINGS
ARE NOT RECOMMENDED FOR
HIGH-PRESSURE APPLICATIONS.

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DRILL DIAMETER	ANGLE (E)	OVERALL LENGTH (A)	SHANK LENGTH (B)	OVERALL WIDTH (D)	SWING CLEARANCE (G)	SHOULDER DIAMETER (H)	BALL CHECK?
5029	 L1743	≈ 1/4" DRILL	STRAIGHT	.58"	.21"	□	□	11/32"	YES
5044	L321381	≈ 1/4" DRILL	STRAIGHT	.55"	.25"	□	□	11/32"	NO
5318	L1744	≈ 1/4" DRILL	65°	.71"	.28"	.63"	.50"	3/8" HEX	YES
5031	 L1608	≈ 5/16" DRILL	STRAIGHT	.55"	.25"	□	□	3/8"	YES
5036	L5036	≈ 3/8" DRILL	STRAIGHT	.63"	.25"	□	□	7/16"	YES


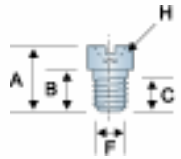
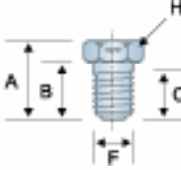
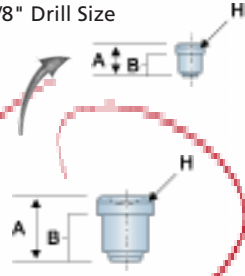

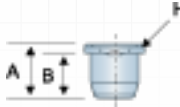


FLUSH TYPE

FOR MORE INFORMATION,
PLEASE SEE PG. 38

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE


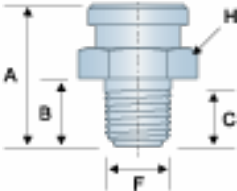

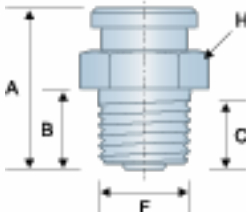
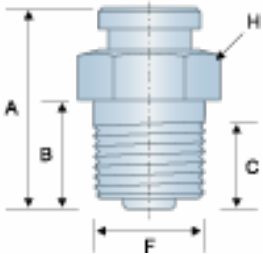
<p>700502A </p> <p>Straight Flush Type 10-32 UNF</p>  <p><i>SLOTTED</i></p>	<p>700392</p> <p>Straight Flush Type 1/4"-28 UNF</p> 	<p>700397</p> <p>Straight Flush Drive Type ≈ 1/8" Drill Size</p>  <p><i>ENLARGED BY 200%</i></p>	<p>700502 </p> <p>Straight Flush Drive Type ≈ 1/4" Drill Size</p> 
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LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	DRILL DIAMETER	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX / SHOULDER DIAMETER (H)
700502A *	L1502	10-32	□	.34"	.23"	.15"	.18"	1/4" SLOTTED
700392	L1851	1/4"-28	□	.41"	.30"	.19"	.25"	5/16"
700397	L1877	□	≈ 1/8" DRILL	.17"	.13"	□	□	5/32"
700502 *	L1885	□	≈ 1/4" DRILL	.28"	.23"	□	□	5/16"

BUTTON HEAD - STANDARD

FOR MORE INFORMATION,
PLEASE SEE PG. 38

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.

<p>5701 </p> <p>Button Head - Standard 1/8"-27 NPTF Ball Check</p> 	<p>5706 </p> <p>Button Head - Standard 1/4"-18 PTF SAE Short Ball Check</p> 	<p>5711</p> <p>Button Head - Standard 3/8"-18 NPTF Ball Check</p> 
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LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)	VALVE SYSTEM
5701 *	L1184	1/8"-27	.75"	.36"	.26"	.39"	5/8"	BALL CHECK
5706 *	L1186	1/4"-18	.84"	.44"	.31"	.52"	5/8"	BALL CHECK
5711	L1188	3/8"-18	1.06"	.58"	.41"	.64"	3/4"	BALL CHECK

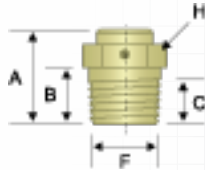
FOR MORE INFORMATION,
PLEASE SEE PG. 50-51

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 IT WORKS



AS INTERNAL PRESSURES RISE, THE BALL CHECK OPENS, ALLOWING PRESSURE TO VENT.

LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	RELIEF PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
5677	* L5677	1/8"-27	1-5 PSI	.50"	.28"	.17"	.39"	7/16"
5678	* L5678	1/8"-27	7.5-15 PSI	.50"	.28"	.17"	.39"	7/16"
5679	L5679	1/8"-27	15-25 PSI	.50"	.28"	.17"	.39"	7/16"
5680	L5680	1/8"-27	45-80 PSI	.50"	.28"	.17"	.39"	7/16"

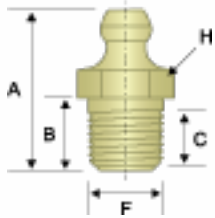
PRESSURE & FLOW CONTROL

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.

FOR MORE INFORMATION,
PLEASE SEE PG. 58-59

5045

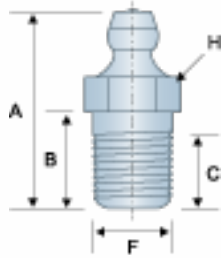
Straight Leak Proof
1/8"-27 NPTF
5,000 psi



WITHOUT SURFACE BALL CHECK
RUBBER SEAL

700506

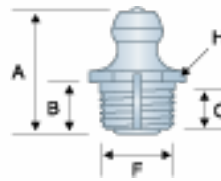
Straight Leak Proof
1/8"-27 NPTF
10,000 psi



WITH SURFACE BALL CHECK

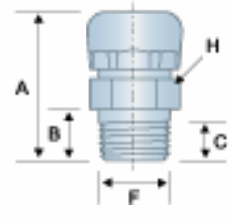
5099

Straight Safety Vent
1/8"-27 PTF Spl. Extra Short
Long Shank



5698

Straight Breather
1/8"-27 PTF Spl. Short



GM 211420

LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	ANGLE (E)	MAX BACK PRESSURE	OVERALL LENGTH (A)	SHANK LENGTH (B)	MIN. THREAD LENGTH (C)	THREAD DIAMETER (F)	HEX (H)
5045	* L1650	1/8"-27	STRAIGHT	5,000 PSI	.84"	.38"	.27"	.39"	7/16"
700506	L1634B	1/8"-27	STRAIGHT	10,000 PSI	1.00"	.51"	.27"	.39"	7/16"
5099	* L1930	1/8"-27	STRAIGHT	□	.64"	.28"	.20"	.39"	7/16"
5698	* L301310	1/8"-27	STRAIGHT	□	.78"	.28"	.19"	.39"	7/16"


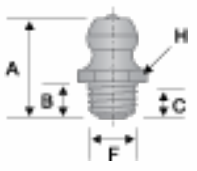

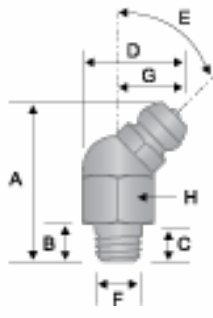

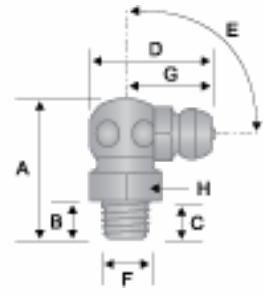

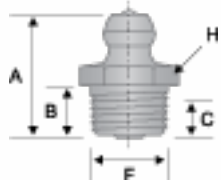
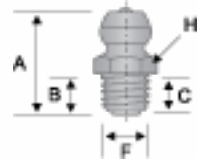
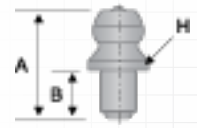
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STAINLESS STEEL

Stainless steel fittings offer an additional level of corrosion resistance and are suited for food processing equipment, marine applications and sewage disposal systems. 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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE


<p>5010-9 </p> <p>Straight - Stainless 1/4"-28 Taper Thread Standard Shank</p> 	<p>5210-9 </p> <p>45° Angle - Stainless 1/4"-28 Taper Thread Standard Shank</p> 	<p>5410-9 </p> <p>90° Angle - Stainless 1/4"-28 Taper Thread Standard Shank</p> 
<p>5000-9 </p> <p>Straight - Stainless 1/8"-27 PTF Spl. Extra Short Standard Shank</p> 	<p>5521-9</p> <p>Straight - Stainless 1/4"-28 UNF Standard Shank</p> 	<p>5033-9</p> <p>Straight Drive Type - Stainless ≈ 3/16" Drill Size Plain Shank</p> 


LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD	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)
5010-9	 L16419	1/4"-28	□	STRAIGHT	.53"	.19"	.10"	□	.25"	□	5/16"
5210-9	 L16379	1/4"-28	□	45°	.81"	.20"	.14"	.58"	.25"	.39"	3/8"
5410-9	 L19119	1/4"-28	□	90°	.75"	.19"	.16"	.66"	.25"	.41"	3/8"
5000-9	 L16109	1/8"-27	□	STRAIGHT	.64"	.28"	.18"	□	.39"	□	7/16"
5521-9	L17929	1/4"-28	□	STRAIGHT	.53"	.19"	.08"	□	.25"	□	9/32"
5033-9	L17289	□	≈ 3/16" DRILL	STRAIGHT	.56"	.25"	□	□	□	□	5/16"

 Common Parts
Parts with this designation
are in wide distribution.

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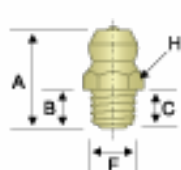
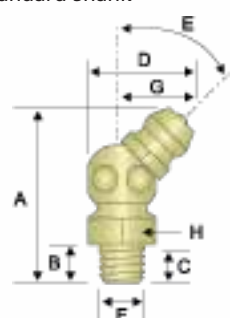
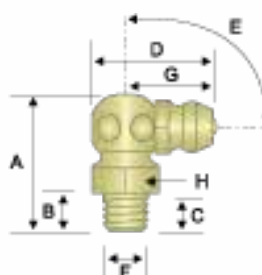
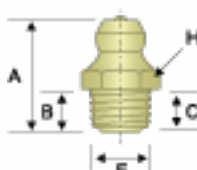
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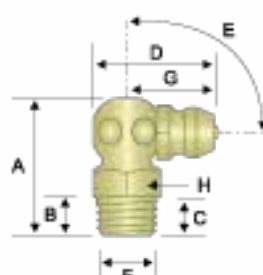
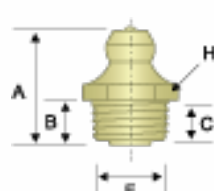
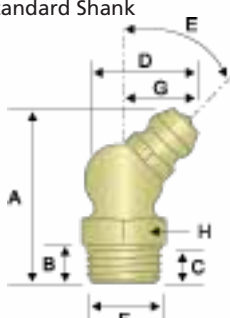
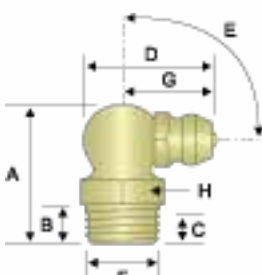


M6 & M8 & M10

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

<p>5175</p> <p>Straight M6 x 1.0 Standard Shank</p> 	<p>5176</p> <p>45° Angle M6 x 1.0 Standard Shank</p> 	<p>5177</p> <p>90° Angle M6 x 1.0 Standard Shank</p> 	<p>5178</p> <p>Straight M8 x 1.0 Standard Shank</p> 
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<p>5180</p> <p>90° Angle M8 x 1.0 Standard Shank</p> 	<p>5181</p> <p>Straight M10 x 1.0 Standard Shank</p> 	<p>5182</p> <p>45° Angle M10 x 1.0 Standard Shank</p> 	<p>5183</p> <p>90° Angle M10 x 1.0 Standard Shank</p> 
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LINCOLN® 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)
5175	* L2106	M6 x 1.0	STRAIGHT	13.1 MM	5.2 MM	3.7 MM	□	6.0 MM	□	7.0 MM
5176	* L2107	M6 x 1.0	45°	22.2 MM	5.6 MM	3.7 MM	14.0 MM	6.0 MM	9.9 MM	9.0 MM
5177	* L2108	M6 x 1.0	90°	17.9 MM	5.6 MM	3.7 MM	19.0 MM	6.0 MM	14.0 MM	9.0 MM
5178	L2103	M8 x 1.0	STRAIGHT	14.7 MM	5.6 MM	3.7 MM	□	8.0 MM	□	9.0 MM
5179	Ⓞ L2104	M8 x 1.0	45°	22.2 MM	5.6 MM	3.7 MM	14.0 MM	8.0 MM	9.9 MM	9.0 MM
5180	L2105	M8 x 1.0	90°	17.9 MM	5.6 MM	3.7 MM	19.0 MM	8.0 MM	14.0 MM	9.0 MM
5181	L2109	M10 x 1.0	STRAIGHT	15.5 MM	5.6 MM	3.7 MM	□	10.0 MM	□	11.0 MM
5182	* L2110	M10 x 1.0	45°	23.8 MM	5.6 MM	3.7 MM	10.0 MM	10.0 MM	16.0 MM	11.0 MM
5183	L2111	M10 x 1.0	90°	18.7 MM	5.6 MM	3.7 MM	17.9 MM	10.0 MM	12.7 MM	11.0 MM



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ITEMS ARE NOT PICTURED.

ADAPTERS & EXTENSIONS

MALE X FEMALE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

DIAGRAM 1

Straight Adapter
Male x Female

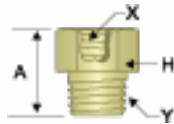


DIAGRAM 2

Straight Adapter
Male x Female

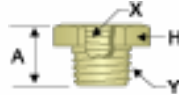


DIAGRAM 3

Straight Adapter
Male x Female

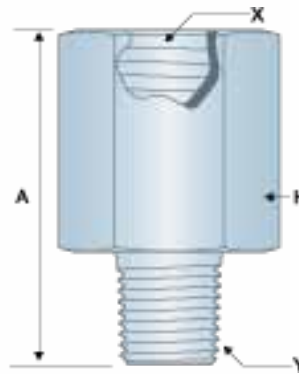
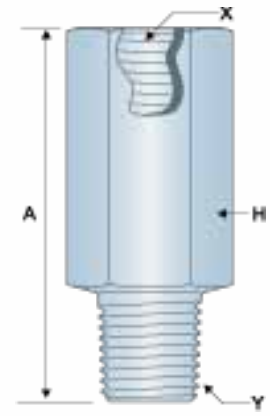



DIAGRAM 4

Straight Extension
Male x Female



LINCOLN® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
103307E	L103307	DIA. 1	M6 x 1.0 (M)	1/4"-28 SAE-LT (F)	STRAIGHT	.43"	9.0 MM
103309E	L103309	DIA. 1	M10 x 1.0 (M)	1/4"-28 SAE-LT (F)	STRAIGHT	.32"	7/16"
103308E	L103308	DIA. 2	M8 x 1.0 (M)	1/4"-28 SAE-LT (F)	STRAIGHT	.45"	3/8"
20024	 L51942	DIA. 3	1/4"-28 SAE-LT (M)	1/8"-27 NPTF (F)	STRAIGHT	.87"	1/2"
11229	L43760	DIA. 3	1/8"-27 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.19"	5/8"
10049	L301198	DIA. 3	1/4"-18 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.44"	7/8"
12989	L12989	DIA. 3	1/4"-18 NPTF (M)	1/2"-14 NPTF (F)	STRAIGHT	1.75"	1"
10182	L43763	DIA. 4	1/8"-27 NPTF (M)	1/8"-27 NPTF (F)	STRAIGHT	.94"	9/16"
11348	L11348	DIA. 4	1/4"-18 NPTF (M)	1/4"-18 NPTF (F)	STRAIGHT	1.91"	3/4"

 Common Parts
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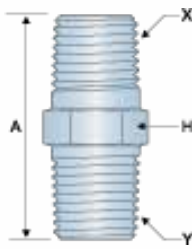
ADAPTERS

MALE x MALE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

DIAGRAM 1

Straight Adapter
Male x Male



STAINLESS 10462-9

DIAGRAM 2

Straight Adapter
Male x Male

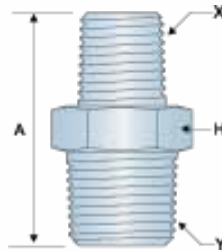


DIAGRAM 3

Straight Adapter
Male x Male

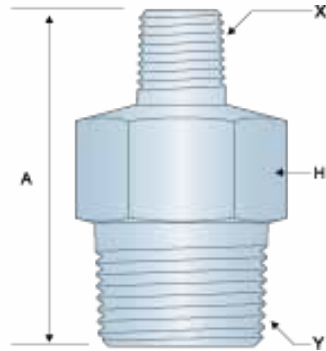
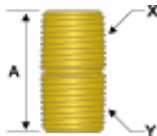


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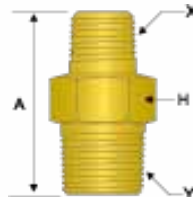
Straight Adapter
Male x Male



BRASS

DIAGRAM 5

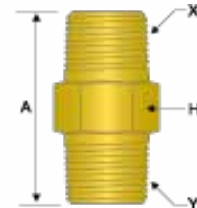
Straight Adapter
Male x Male



BRASS

DIAGRAM 6

Straight Adapter
Male x Male



BRASS

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (Y)	MALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
10130	L10130	DIA. 1	1/8"-27 NPTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1"	7/16"
10462	L327033	DIA. 1	1/4"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.41"	9/16"
10462-9	L327033S	DIA. 1	1/4"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.41"	9/16"
10540	L41729	DIA. 1	3/8"-18 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.44"	11/16"
11197	L51888	DIA. 1	1/2"-14 NPTF (M)	1/2"-14 NPTF (M)	STRAIGHT	1.81"	7/8"
10712	L10712	DIA. 2	1/4"-18 NPTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1.18"	5/8"
10713	L10713	DIA. 2	3/8"-18 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	1.45"	3/4"
11107	L11107	DIA. 2	1/2"-14 NPTF (M)	3/8"-18 NPTF (M)	STRAIGHT	1.7"	7/8"
12106	L12106	DIA. 2	1/2"-14 NPTF (M)	3/4"-14 NPTF (M)	STRAIGHT	2.13"	1 1/16"
14727	L14727	DIA. 3	3/4"-14 NPTF (M)	1/4"-18 NPTF (M)	STRAIGHT	2.07"	1 1/8"
67371	L67371	DIA. 4	1/8"-27 NPT (M)	1/8"-27 NPT (M)	STRAIGHT	.75"	□
10199	L10199	DIA. 5	1/2"-27 SPL-PTF (M)	1/8"-27 NPTF (M)	STRAIGHT	1.12"	9/16"
10202	L10202	DIA. 6	1/2"-27 NPTF (M)	1/2"-27 SPL-PTF (M)	STRAIGHT	1.19"	9/16"
10198	L10198	DIA. 6	1/4"-18 NPTF (M)	1/2"-27 SPL-PTF (M)	STRAIGHT	1.31"	9/16"

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ELBOWS

MALE x FEMALE

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

DIAGRAM 1

90° Angle Elbow
Male x Female

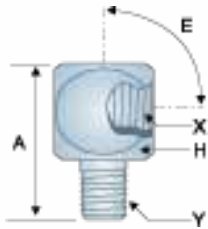


DIAGRAM 2

90° Angle Elbow
Male x Female

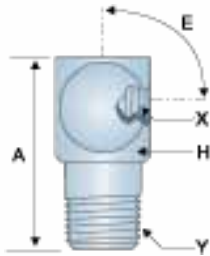


DIAGRAM 3

90° Angle Elbow
Male x Female

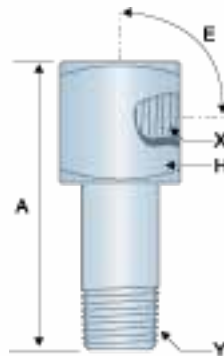
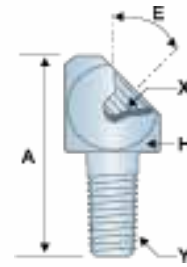






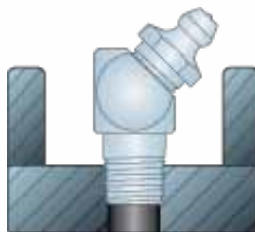
DIAGRAM 4

45° Angle Elbow
Male x Female




LINCOLN® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (M)	FEMALE THREAD (F)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
20026	 L51943	DIA. 1	1/4"-28 SAE-LT (M)	1/8"-27 PTF SAE SHORT (F)	90°	.81"	1/2" SQ.
20029	 L44701	DIA. 2	1/8"-27 PTF SAE SHORT (M)	1/8"-21 NPTF (F)	90°	1.00"	1/2" SQ.
20031	 L316071	DIA. 2	1/8"-21 NPTF (M)	1/8"-21 NPTF (F)	90°	.82"	1/2" SQ.
20012	L43748	DIA. 2	1/4"-18 PTF SAE SHORT (M)	1/4"-18 NPTF (F)	90°	1.34"	11/16" SQ.
13129	L13129	DIA. 3	1/8"-21 NPTF (M)	1/8"-21 NPTF (F)	90°	1.50"	5/8" SQ.
247616	L247616	DIA. 4	1/4"-28 SAE-LT (M)	1/8"-21 PTF SAE SHORT (F)	45°	1.06"	1/2" SQ.
20028	 L43716	DIA. 4	1/8"-21 PTF SAE SHORT (M)	1/8"-21 NPTF (F)	45°	1.00"	1/2" SQ.

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

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

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BUSHINGS

MALE x FEMALE

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

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

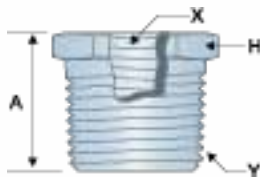
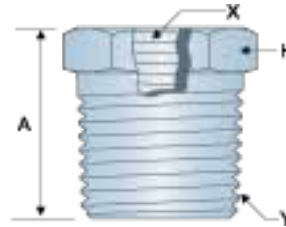


DIAGRAM 2

Straight Bushing
Male x Female




LINCOLN® ITEM #	G.L. HUYETT ORDER #	DIAGRAM #	MALE THREAD (Y)	FEMALE THREAD (X)	ANGLE (E)	OVERALL LENGTH (A)	HEX (H)
67069	L131586	DIA. 1	1/2"-14 NPTF (M)	3/8"-18 NPTF (F)	STRAIGHT	1.12"	7/8"
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 NPT (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"

DESIGN FEATURE



BUSHINGS ARE THREADED ON BOTH THE INSIDE AND OUTSIDE AND ARE USED FOR JOINING PARTS WITH DIFFERENT DIAMETERS TOGETHER

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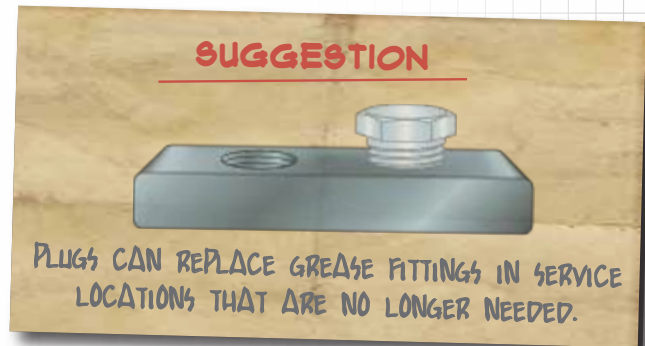
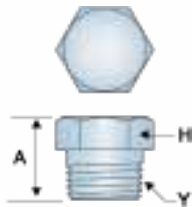
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PLUGS - HEX HEAD

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



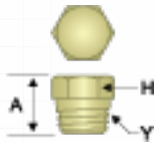
LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD (Y)	OVERALL LENGTH (A)	DRIVE (H)
12511	L12511	1/8"-27 PTF SPL EXTRA SHORT	0.44"	7/16" HEX

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.

100337

Plug - Hex Head
1/4"-28 Thread Forming



LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD (Y)	OVERALL LENGTH (A)	DRIVE (H)
100337	L100337	1/4"-28 THREAD FORMING	0.31"	9/32" HEX

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

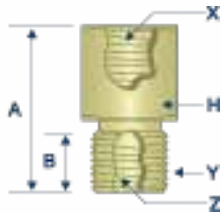
BULKHEAD CONNECTORS

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.

TECHNICAL DRAWINGS ARE APPROXIMATE ACTUAL SIZE

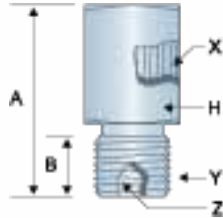
13154

Straight Bulkhead Connector
 Female (X) - 1/8"-27 NPTF
 Male (Y) - 1/8"-27 NPSM
 Female (Z) - 1/4"-28 UNF



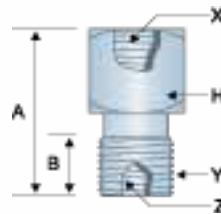
13155

90° Angle Bulkhead Connector
 Female (X) - 1/8"-27 NPTF
 Male (Y) - 1/8"-27 NPSM
 Female (Z) - 1/4"-28 UNF



14054

Straight Bulkhead Connector
 Female (X) - 1/8"-27 NPTF
 Male (Y) - 1/8"-27 NPSM
 Female (Z) - 1/4"-28 UNF



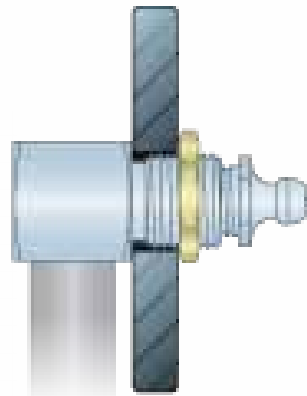
51055

Bulkhead Connector Nut
 1/8"-27 NPSM



LINCOLN® ITEM #	G.L. HUYETT ORDER #	THREAD (X)	THREAD (Y)	THREAD (Z)	ANGLE	OVERALL LENGTH (A)	SHANK LENGTH (B)	HEX (H)
13154	L13154	1/8"-27 NPTF (F)	1/8"-27 NPSM (M)	1/4"-28 UNF (F)	STRAIGHT	.88"	.38"	1/2" SQ.
13155	L13155	1/8"-27 NPTF (F)	1/8"-27 NPSM (M)	1/4"-28 UNF (F)	90°	1.00"	.38"	1/2" SQ.
14054	L14054	1/8"-27 NPTF (F)	1/8"-27 NPSM (M)	1/4"-28 UNF (F)	STRAIGHT	.88"	.44"	1/2" SQ.
51055	L51055	□	1/8"-27 NPSM	□	□	□	□	11/16"

DESIGN FEATURE



WHEN USED WITH THE 51055 BULKHEAD CONNECTOR NUT, BULKHEAD CONNECTORS ALLOW CONVENIENT PASSAGE OF LUBRICATION LINES THROUGH BULKHEADS AND OTHER BARRIERS

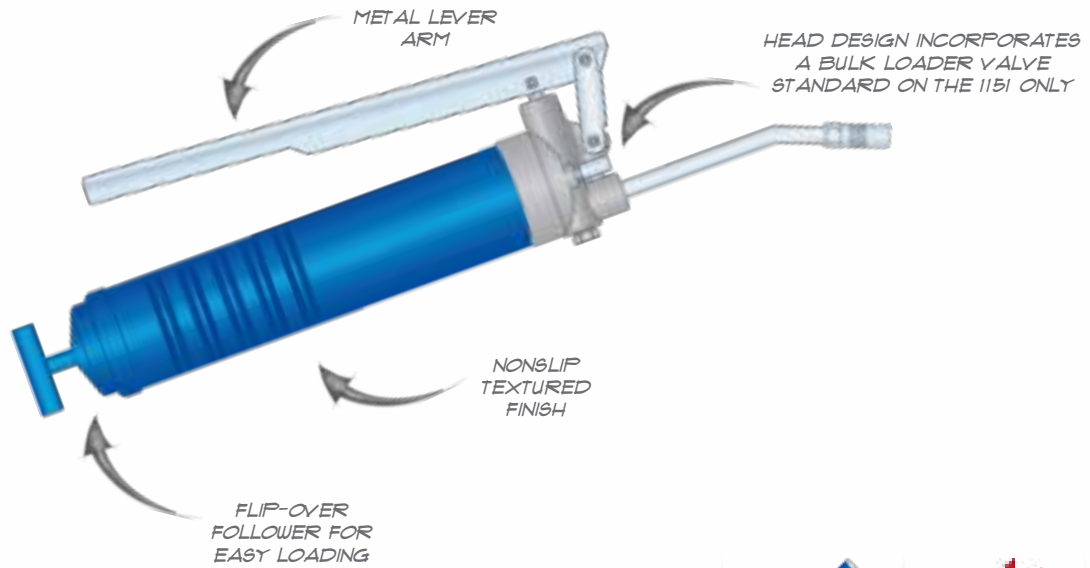
STANDARD - LEVER GREASE GUN

1,000 PSI

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



1,000 PSI




LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1142	L1142	LEVER - STANDARD DUTY	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-21 NPT	1,000 PSI	4.0 LBS.
1147	L1147	LEVER - STANDARD DUTY W/ HOSE	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-21 NPT	1,000 PSI	4.1 LBS.
1151	L1151	LEVER - HIGH CAPACITY	14.5 OZ.	21 OZ.	1 OZ. / 33 STROKES	1/8"-21 NPT	1,000 PSI	4.4 LBS.

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

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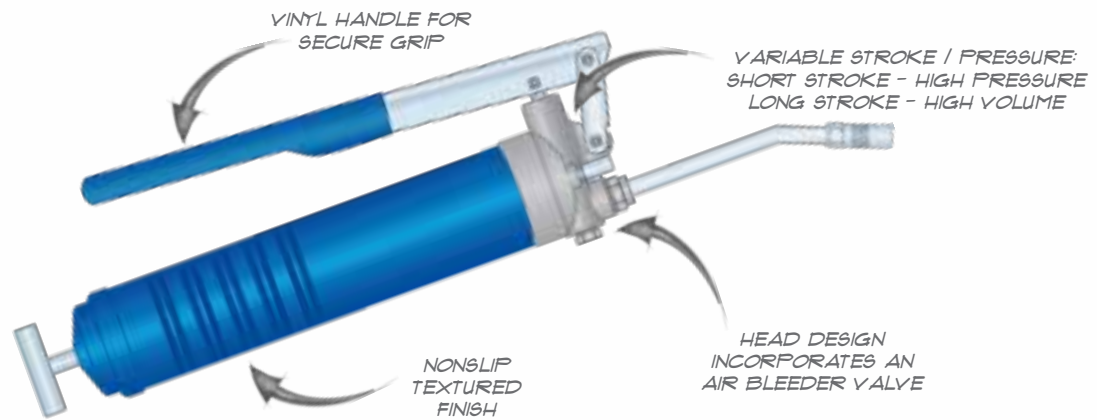
HEAVY DUTY - LEVER GREASE GUN

7,000 PSI

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.

1148

Lever Grease Gun - Heavy Duty
 14.5 oz. Cartridge Capacity
 1/8"-27 NPT with Pipe & Coupler
 7,000 psi



7,000 PSI



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1148	L1148	LEVER - HEAVY DUTY	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	7,000 PSI	4.2 LBS.

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HIGH CAPACITY - LEVER GREASE GUN

1,000 PSI

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

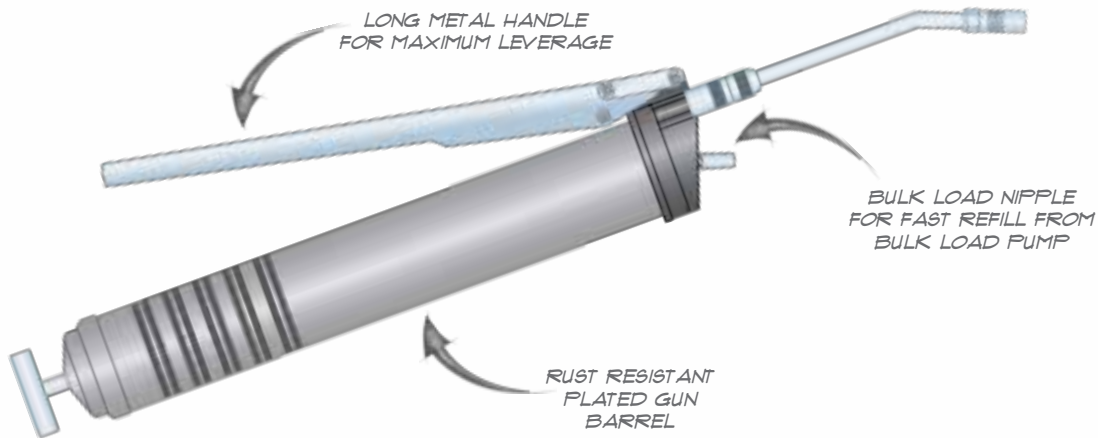
Lever Grease Gun - High Pressure
21 oz. Bulk Capacity
1/8"-27 NPT with Pipe & Coupler
7,000 psi



1031
HIGH VOLUME



1035
HIGH PRESSURE



7,000 PSI

LINCOLN # 1031
IS A HIGH VOLUME MODEL



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1035	L1035	LEVER - HIGH PRESSURE	14.5 OZ.	21 OZ.	1 OZ. / 25 STROKES	1/8"-27 NPT	7,000 PSI	6.4 LBS.
1031	L1031	LEVER - HIGH VOLUME	14.5 OZ.	21 OZ.	1 OZ. / 9 STROKES	1/8"-27 NPT	3,000 PSI	7.0 LBS.

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DUAL PRESSURE - LEVER GREASE GUN

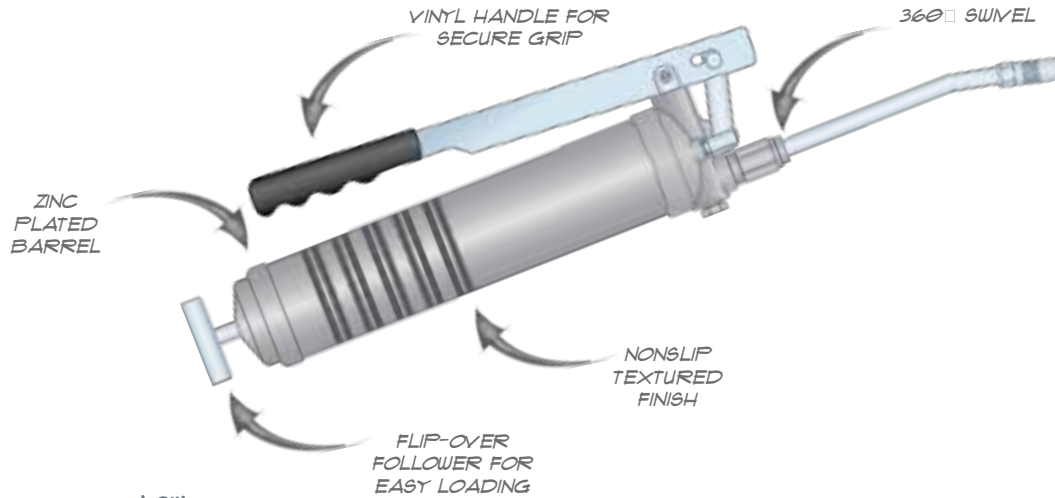
Dual pressure grease guns are engineered with a locking slide pin which allows users to quickly and easily convert the gun from high pressure / low volume mode to low pressure / high volume in accordance with their specific application. The rigid extension swivels 360° for servicing hard-to-reach areas.

1013

Lever Grease Gun - Dual Pressure
 14.5 oz. Cartridge Capacity
 1/8"-27 NPT with Pipe & Coupler
 7,000 / 4,000 psi

1 OZ PER 33 STROKES
HIGH PRESSURE

1 OZ PER 18 STROKES
LOW PRESSURE



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CART. CAP.	BULK CAP.	LOW PRESSURE DELIVERY	HIGH PRESSURE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1013	L1013	LEVER - DUAL PRESSURE	14.5 OZ.	16 OZ.	1 OZ / 18 STROKES	1 OZ / 33 STROKES	1/8"-27 NPT	7,000 PSI / 4,000 PSI	4.6 LBS.
1145	L1145	LEVER - DUAL PRESSURE	14.5 OZ.	21 OZ.	1 OZ / 18 STROKES	1 OZ / 33 STROKES	1/8"-27 NPT	7,000 PSI / 4,000 PSI	5.0 LBS.

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STANDARD - PISTOL-GRIP GREASE GUN

6,000 PSI

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

PER 33 STROKES
 1 OZ

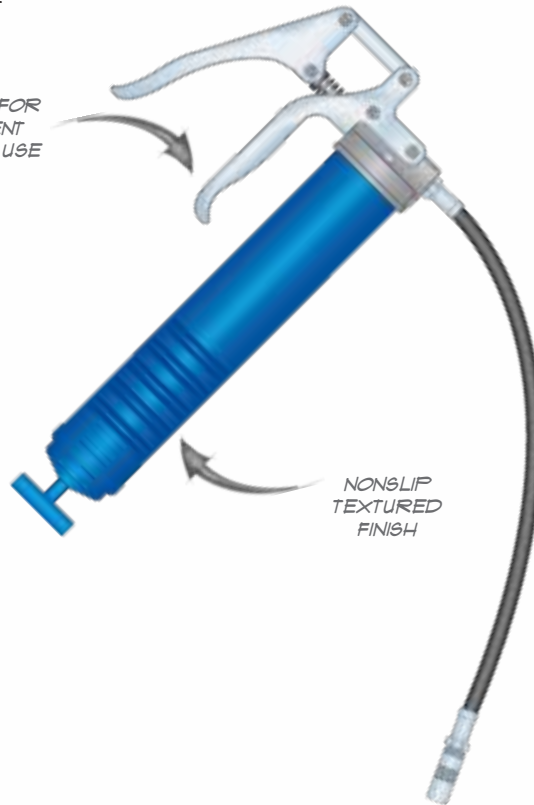
DESIGNED FOR CONVENIENT ONE-HAND USE

18" FLEXIBLE HOSE WITH COUPLER

NONSLIP TEXTURED FINISH



6,000 PSI




LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1133	L1133	PISTOL GRIP - STANDARD W/ HOSE	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	6,000 PSI	3.4 LBS.
1132	L1132	PISTOL GRIP - STANDARD	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	6,000 PSI	3.4 LBS.

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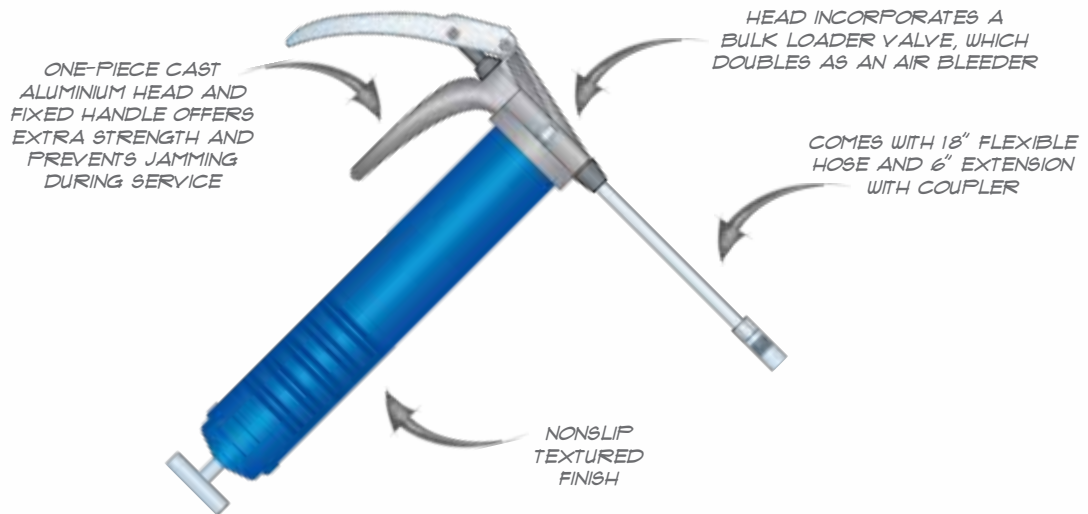
HEAVY DUTY - PISTOL-GRIP GREASE GUN

7,500 PSI

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



7,500 PSI



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CART. CAP.	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1134	L1134	PISTOL GRIP - HEAVY DUTY W/ PIPE & HOSE	14.5 OZ.	16 OZ.	1 OZ / 33 STROKES	1/8"-21 NPT	7,500 PSI	4.0 LBS.

 Common Parts
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CORDLESS - STANDARD GREASE GUN

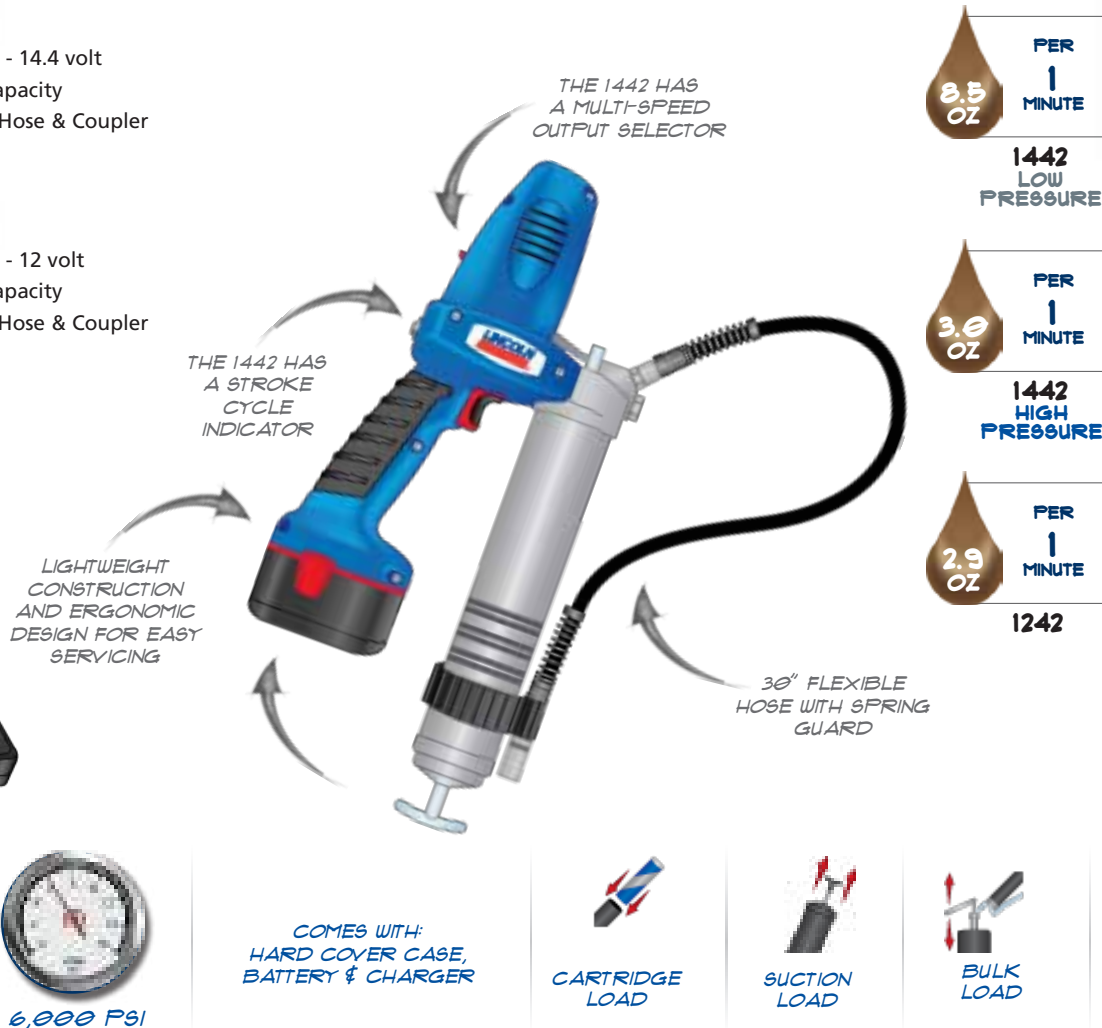
With the touch of a button, the Lincoln® brand cordless grease guns deliver lubricants in a steady stream at up to 7,500 psi. The 1442 has a versatile two-speed trigger which allows users to deliver a higher volume of grease at a lower pressure and the built-in stroke indicator allows easy output measurement.

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



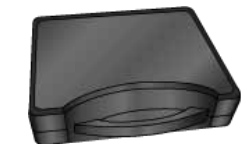
1442
LOW PRESSURE



1442
HIGH PRESSURE



1242



7,500 PSI



6,000 PSI

COMES WITH:
HARD COVER CASE,
BATTERY & CHARGER



CARTRIDGE LOAD




SUCTION LOAD



BULK LOAD

LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1442	L1442	CORDLESS - 14.4 VOLT	14.5 OZ.	16 OZ.	8.5 OZ. / MIN. 3.0 OZ. / MIN.	7/16"-28 UNEF	7,500 PSI	14.1 LBS.
1242	L1242	CORDLESS - 12 VOLT	14.5 OZ.	16 OZ.	2.9 OZ. / MIN.	7/16"-28 UNEF	6,000 PSI	18.3 LBS.

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	VOLTS	BATTERY TYPE
1401	L1401	REPLACEMENT BATTERY	14.4 VOLT	NICD BATTERY
1201	L1201	REPLACEMENT BATTERY	12 VOLT	NICD BATTERY

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PNEUMATIC - CONTINUOUS FLOW GREASE GUN

6,000 PSI

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



6,000 PSI



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1162	L1162	PNEUMATIC - HEAVY DUTY	14.5 OZ.	16 OZ.	10 OZ. / MIN.	1/8"-27 NPT	6,000 PSI	5.6 LBS.

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CLEAR BARREL - GREASE GUN

1,000 PSI

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

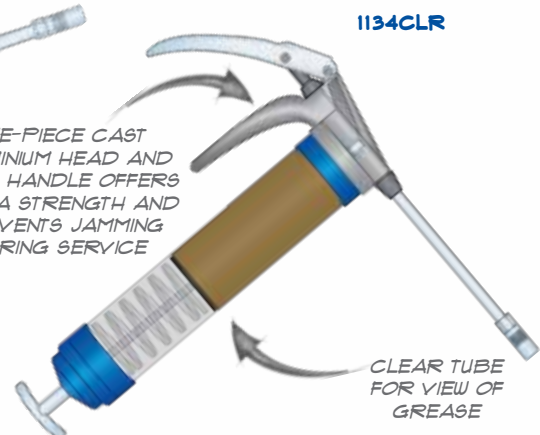
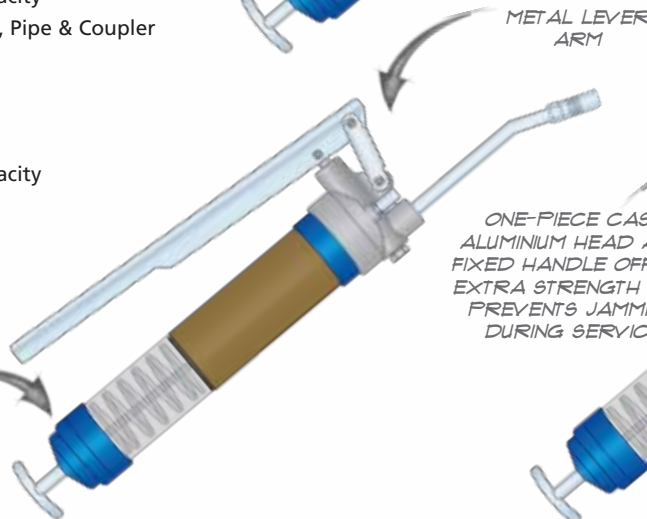
Lever Grease Gun - Heavy Duty Clear Barrel
14.5 oz. Cartridge Capacity
1/8" -27 NPT with Pipe & Coupler
7,000 psi

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




FLIP-OVER FOLLOWER FOR EASY LOADING




1,000 PSI



LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	STROKE DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1142CLR	L1142CLR	LEVER - HEAVY DUTY CLEAR BARREL	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	1,000 PSI	3.7 LBS.
1148CLR	L1148CLR	LEVER - HEAVY DUTY CLEAR BARREL	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	1,000 PSI	4.0 LBS.
1134CLR	L1134CLR	PISTOL - HEAVY DUTY CLEAR BARREL	14.5 OZ.	16 OZ.	1 OZ. / 33 STROKES	1/8"-27 NPT	1,000 PSI	3.8 LBS.
1100CLR	L1100CLR	HEAVY DUTY CLEAR BARREL ONLY	14.5 OZ.	16 OZ.	□	□	□	0.9 LBS.

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CLEAR BARREL - CORDLESS GREASE GUN

7,500 PSI

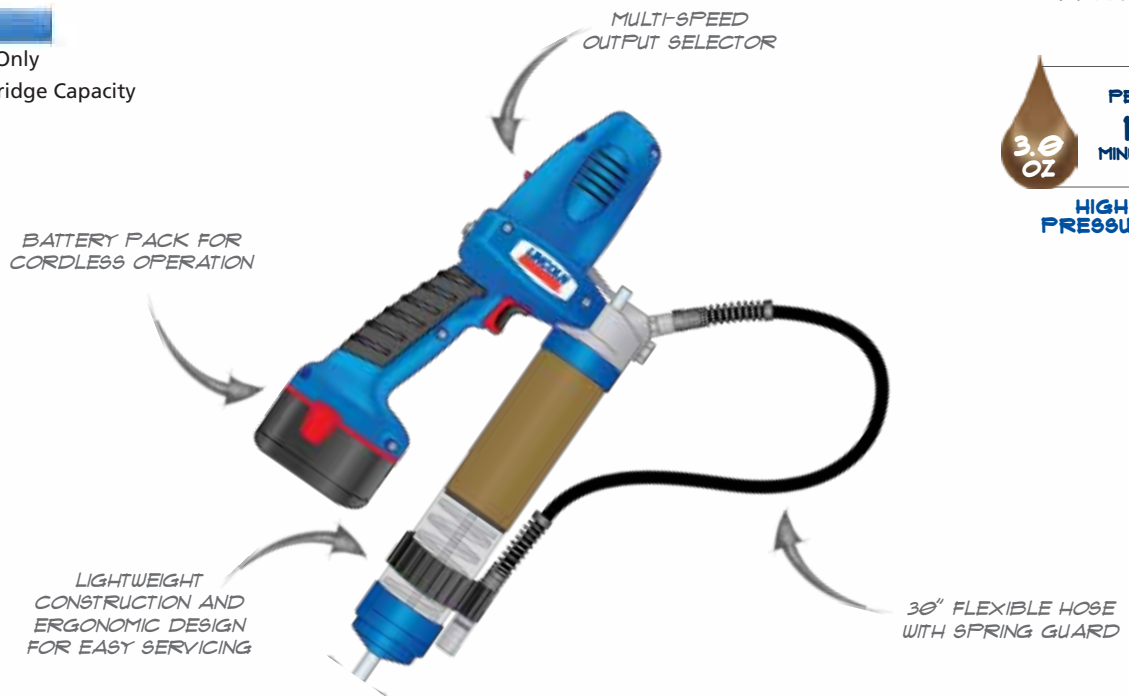
Lincoln's® cordless series of grease guns are also available with an optional clear barrel. Like all of Lincoln's® clear barrels, they are constructed of high strength clear tubing with aircraft aluminum adapters. The 14.4 volt gun developed a maximum 7,500 psi with its multi-speed output.

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



LOW PRESSURE



HIGH PRESSURE



7,500 PSI





LINCOLN® ITEM #	G.L. HUYETT ORDER #	GREASE GUN SERIES	CARTRIDGE CAPACITY	BULK CAP.	DELIVERY	PIPE EXTENSION THREADS	MAXIMUM PRESSURE	SHIP WEIGHT
1440CLR	LI440CLR	CORDLESS - 14.4 VOLT	14.5 OZ.	16 OZ.	8.5 OZ. / MIN. 3.0 OZ. / MIN.	1/8"-27 NPT	7,500 PSI	10.1 LBS.
1100CLR	LI100CLR	HEAVY DUTY CLEAR BARREL ONLY	14.5 OZ.	16 OZ.	□	□	□	0.9 LBS.

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PUMPS & ASSEMBLY

1,500 PSI

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.

917

50:1 Pneumatic Grease Pump Assembly
Fits 120 lb. drum
7,500 psi

30
CU. IN. **PER**
1
MINUTE



1,500 PSI

DRUM NOT INCLUDED

 USE WITH AIR SUPPLY

989

50:1 Pneumatic Grease Pump Assembly
Fits 25-50 lb. drum
7,500 psi

30
CU. IN. **PER**
1
MINUTE



1,500 PSI

DRUM NOT INCLUDED

 USE WITH AIR SUPPLY

6917

50:1 Pneumatic Grease Pump - Deluxe
Fits 120 lb. drum
7,500 psi

30
CU. IN. **PER**
1
MINUTE



1,500 PSI

DRUM NOT INCLUDED

 USE WITH AIR SUPPLY

9917

50:1 Pneumatic Grease Pump
Fits 120 lb. drum
7,500 psi

168
CU. IN. **PER**
1
MINUTE




1,500 PSI


DRUM NOT INCLUDED

 USE WITH AIR SUPPLY

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	BARREL SIZE	AIR INLET PSI MAXIMUM
917	L917	50:1 PNEUMATIC GREASE PUMP ASSEMBLY	120 LB.	150 PSI
989	L989	50:1 GREASE PUMP ASSEMBLY	25 - 50 LB.	150 PSI
6917	L6917	50:1 PNEUMATIC PUMP - DELUXE	120 LB.	150 PSI
9917	L9917	50:1 PNEUMATIC PUMP	120 LB.	150 PSI

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

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REVISED 06-11

ACCESSORIES

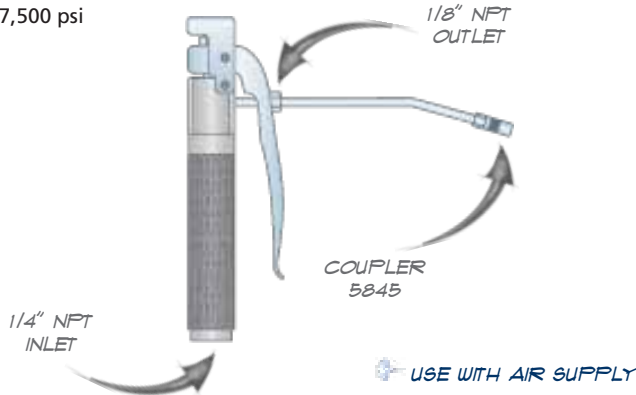
Replacement parts for pneumatic grease pump assemblies are available. The 81387 swivel is constructed of rugged zinc plated steel and is ideal for placement between a control valve and hose to prevent binding or twisting of the hose.

740

Grease Control Valve
1/4" NPT Inlet
1/8" NPT Outlet
7,500 psi



1,500 PSI

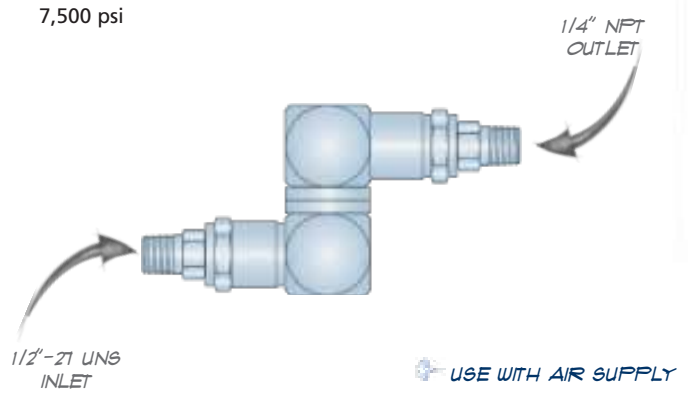


81387

Universal Swivel
1/2"-27 UNS
1/4" NPT
7,500 psi



1,500 PSI



LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	INLET THREAD	OUTLET THREAD	WORKING PRESSURE
740	L740	GREASE CONTROL VALVE	1/4" NPT	1/8" NPT	7,500 PSI
81387	L81387	UNIVERSAL SWIVEL	1/2"-27 UNS	1/4" NPT	7,500 PSI

SPARE PARTS

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.

91108

Bulk Loader Fitting
1/8"-27 NPT
.34" Straight



80133

Bulk Loader Coupler
3/8"-18 NPT x 1/2"-14 NPT
.34" Straight



82760

Grease Gun Holder



LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	THREAD	OVERALL LENGTH	DIAMETER
91108	L91108	BULK LOADER FITTING	1/8"-27 NPT	1 1/4"	.34" STRAIGHT
80133	L80133	BULK LOADER COUPLER	3/8"-18 NPT X 1/2"-14 NPT	2 1/2"	.34" STRAIGHT
82760	L82760	GREASE GUN HOLDER	□	□	□

STANDARD HOSES

3,000 PSI

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.

DIAGRAM

Flexible Grease Hose - Standard
1/8"-27 NPT
3,000 psi



3,000 PSI

FOR HAND EQUIPMENT

FOR COUPLERS, SEE PAGES 216-218

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BURST PRESSURE
75912CL	L75912CL	FLEXIBLE GREASE HOSE - STANDARD DUTY	12"	HAND	1/8"-27 NPT	3,000 PSI	12,000 PSI
75918CL	L75918CL	FLEXIBLE GREASE HOSE - STANDARD DUTY	18"	HAND	1/8"-27 NPT	3,000 PSI	12,000 PSI
75924CL	L75924CL	FLEXIBLE GREASE HOSE - STANDARD DUTY	24"	HAND	1/8"-27 NPT	3,000 PSI	12,000 PSI
75936CL	L75936CL	FLEXIBLE GREASE HOSE - STANDARD DUTY	36"	HAND	1/8"-27 NPT	3,000 PSI	12,000 PSI

MEDIUM & HEAVY DUTY HOSES

4,500 PSI

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.

DIAGRAM

Flexible Grease Hose - Medium Duty
1/8"-27 NPT
4,500 psi



MEDIUM DUTY



4,500 PSI

DIAGRAM

Flexible Grease Hose - Heavy Duty
1/8"-27 NPT
7,500 psi

FOR POWERLUBER AND 1162 ONLY

HEAVY DUTY



7,500 PSI

FOR AIR / BATTERY EQUIP.

FOR COUPLERS, SEE PAGES 216-218

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BURST PRESSURE
5812	L5812	FLEXIBLE GREASE HOSE - MEDIUM DUTY WITH SPRING	12"	HAND	1/8"-27 NPT	4,500 PSI	18,000 PSI
5818	L5818	FLEXIBLE GREASE HOSE - MEDIUM DUTY WITH SPRING	18"	HAND	1/8"-27 NPT	4,500 PSI	18,000 PSI
5861	L5861	FLEXIBLE GREASE HOSE - MEDIUM DUTY WITH SPRING	36"	HAND	1/8"-27 NPT	4,500 PSI	18,000 PSI

1218	L1218	FLEXIBLE GREASE HOSE - HEAVY DUTY WITH SPRING	18"	AIR / BATT.	7/16"-21 UNEF	7,500 PSI	28,000 PSI
1224	L1224	FLEXIBLE GREASE HOSE - HEAVY DUTY WITH SPRING	24"	AIR / BATT.	7/16"-21 UNEF	7,500 PSI	28,000 PSI
1230	L1230	FLEXIBLE GREASE HOSE - HEAVY DUTY WITH SPRING	30"	AIR / BATT.	7/16"-21 UNEF	7,500 PSI	28,000 PSI
1236	L1236	FLEXIBLE GREASE HOSE - HEAVY DUTY WITH SPRING	36"	AIR / BATT.	7/16"-21 UNEF	7,500 PSI	28,000 PSI

RIGID EXTENSIONS

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



FOR HAND EQUIPMENT

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	ANGLE	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
62028	L62028	RIGID PIPE EXTENSION - HEAVY DUTY	6"	ANGLE	HAND	1/8"-27 NPTF	□
62061	L62061	RIGID PIPE EXTENSION - HEAVY DUTY	12"	ANGLE	HAND	1/8"-27 NPTF	□
62117	L62117	RIGID PIPE EXTENSION - HEAVY DUTY	18"	ANGLE	HAND	1/8"-27 NPTF	□

FLEXIBLE & RIGID EXTENSIONS

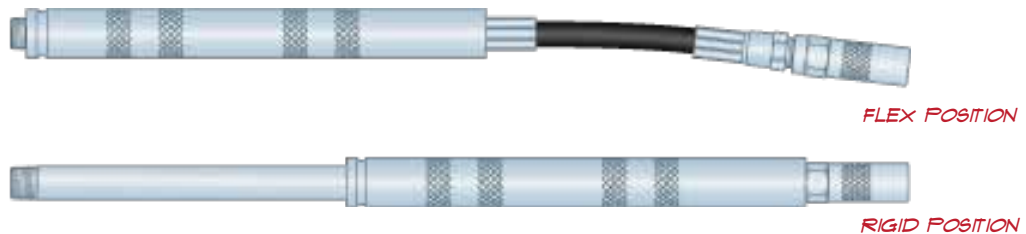
5,000 PSI

DIAGRAM

Flexible & Rigid Grease Extension
1/8"-27 NPT
5,000 psi




5,000 PSI




FOR HAND EQUIPMENT

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	LENGTH	ANGLE	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
5858	L5858	FLEXIBLE & RIGID EXTENSION	13"	□	HAND	1/8"-27 NPTF	5,000 PSI

 Common Parts
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COUPLERS

HYDRAULIC

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.

5852

Hydraulic Coupler
1/8"-27 NPT
6,000 psi



6,000 PSI

Ⓢ 3 JAW CONSTRUCTION
⚙️ FOR AIR / BATTERY EQUIP.

5845

Hydraulic Coupler
1/8"-27 NPT
7,500 psi



7,500 PSI

Ⓢ 3 JAW CONSTRUCTION
⚙️ FOR AIR / BATTERY EQUIP.

5883

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

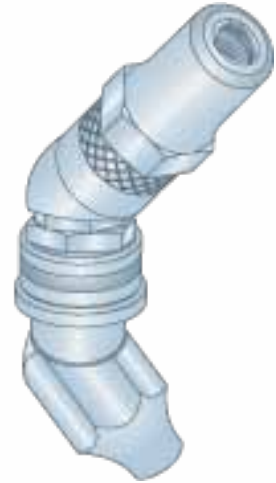


1,000 PSI

⊘ NO BALL CHECK
👤 FOR HAND EQUIPMENT

5848

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



7,000 PSI

Ⓢ 3 JAW CONSTRUCTION
⚙️ FOR AIR / BATTERY EQUIP.

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	JAWS	EQUIPMENT TYPE	THREAD	WORKING PRESSURE	BALL CHECK
5852	L5852	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPT	6,000 PSI	YES
5845	L5845	HYDRAULIC COUPLER - CONVENTIONAL	3 JAW	AIR / BATT.	1/8"-27 NPT	7,500 PSI	YES
5883	L5883	HYDRAULIC COUPLER - 90° PUSH-ON	□	HAND	1/8"-27 NPT	1,000 PSI	NO
5848	L5848	HYDRAULIC COUPLER - 360° SWIVEL	3 JAW	AIR / BATT.	1/8"-27 NPT	7,000 PSI	YES

COUPLERS

BUTTON HEAD

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.

80933

Giant Button Head Coupler
Push-on & Pull-On
7/16"-27 UNS
4,000 psi



4,000 PSI

FOR HAND EQUIPMENT

81458

Button Head Coupler
Push-on & Pull-On
7/16"-27 UNS
4,000 psi



4,000 PSI

FOR HAND EQUIPMENT

10460

Button Head Thread Adapter
(X) 7/16"-27 UNS (m)
(Y) 1/8"-27 NPT (f)
5,000 psi



5,000 PSI

FOR HAND EQUIPMENT

REQUIRES COPPER WASHER # 31138

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	EQUIPMENT TYPE	THREAD	WORKING PRESSURE
80933	L80933	COUPLER - GIANT BUTTON HEAD PUSH-ON/PULL-ON	HAND	7/16"-27 UNS	4,000 PSI
81458	L81458	COUPLER - BUTTON HEAD PUSH-ON/PULL-ON	HAND	7/16"-27 UNS	4,000 PSI
10460	L10460	BUTTON HEAD THREAD ADAPTER	HAND	(X) 7/16"-27 UNS (M) ‡ (Y) 1/8"-27 NPT (F)	5,000 PSI

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



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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.

31138

Copper Washer
ID: 0.437"
OD: 0.570"



USE WITH BUTTON HEAD
THREAD ADAPTOR
10460

5803

Needle Nozzle
1/8"-27 NPT
1 3/8" Needle

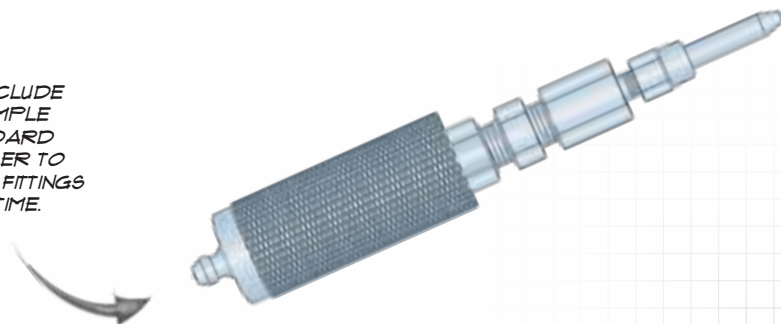


LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	NEEDLE LENGTH	EQUIPMENT TYPE	THREAD	PIPE DIAMETER	TIP DIAMETER
31138	L31138	COPPER WASHER	□	□	□	□	□
5803	* L5803	NEEDLE NOZZLE - MALE	1 3/8"	AIR / BATTERY	1/8"-27 NPT	.188"	.031"

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.

82784

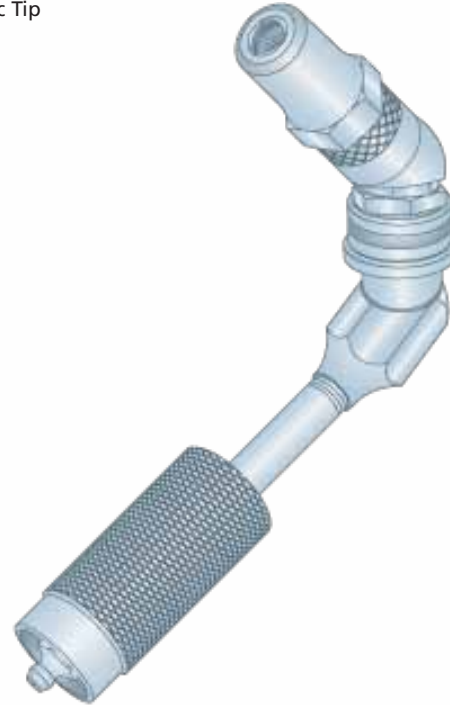
Quick Connect Coupler
Needle Nozzle
Straight



 FOR AIR / BATTERY EQUIP.

5849

Quick Connect Coupler - 360° Swivel
Hydraulic Tip
7,500 psi




© 3 JAW CONSTRUCTION
 FOR AIR / BATTERY EQUIP.

LINCOLN® ITEM #	G.L. HUYETT ORDER #	DESCRIPTION	EQUIPMENT TYPE	ANGLE	TIP
82784	L82784	QUICK CONNECT COUPLER - NEEDLE NOZZLE	AIR / BATTERY	STRAIGHT	NEEDLE NOZZLE
5849	L5849	QUICK CONNECT COUPLER - 360° SWIVEL	AIR / BATTERY	360° SWIVEL	3 JAW HYDRAULIC

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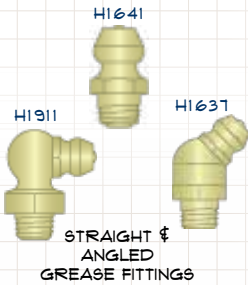
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HERITAGE

KIT #: DISP-GF100

BASIC



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
HI641	1/4"-28 TAPER	STRAIGHT	5/16"	30	14
HI637	1/4"-28 TAPER	45°	3/8"	10	16
HI911	1/4"-28 TAPER	90°	3/8"	10	17
HI610	1/8"-21 PTF	STRAIGHT	7/16"	30	18
HI688	1/8"-21 PTF	45°	7/16"	10	20
HI613	1/8"-21 PTF	90°	7/16"	10	22

KIT #: DISP-GF170

DELUXE



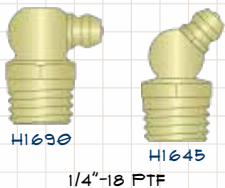
H84000

AN ARRAY OF OUR MOST POPULAR GREASE FITTINGS WITH COUPLER

ITEM #	DESCRIPTION	ANGLE	HEX	QTY	PAGE #
HI641	1/4"-28 TAPER	STRAIGHT	5/16"	25	14
HI652	1/4"-28 TAPER	STRAIGHT	5/16"	6	15
HI637	1/4"-28 TAPER	45°	3/8"	10	16
HI911	1/4"-28 TAPER	90°	3/8"	10	17
HI610	1/8"-21 PTF	STRAIGHT	7/16"	25	18
HI669	1/8"-21 PTF	STRAIGHT	7/16"	6	19
HI611	1/8"-21 PTF	30°	7/16"	5	20
HI688	1/8"-21 PTF	45°	7/16"	10	20
HI612	1/8"-21 PTF	65°	7/16"	5	21
HI613	1/8"-21 PTF	90°	7/16"	10	22
HI618	1/8"-21 NPTF (F)	STRAIGHT	1/2"	6	23
HI627	1/4"-18 PTF	STRAIGHT	9/16"	6	24
HI629	1/4"-18 PTF	65°	9/16"	6	24
HI631	5/16"-32 UNEF	STRAIGHT	3/8"	6	28
HI633	≈ 3/16" DRILL	STRAIGHT	5/16"	15	34
HI743	≈ 1/4" DRILL	STRAIGHT	5/16"	10	36
HI608	≈ 5/16" DRILL	STRAIGHT	3/8"	6	36
H84000	HYDRAULIC COUPLER	STRAIGHT	□	3	118

KIT #: DISP-GF060

HEAVY DUTY



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
HI627	1/4"-18 PTF	STRAIGHT	9/16"	35	24
HI645	1/4"-18 NPTF	45°	9/16"	5	24
HI629	1/4"-18 PTF	65°	9/16"	15	24
HI690	1/4"-18 PTF	90°	9/16"	5	24

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HERITAGE

KIT #: DISP-GFDRI00

DRIVE TYPE	ITEM #	DRILL DIAMETER	ANGLE	SHOULDER DIAMETER	QTY	PAGE #
 <p>STRAIGHT & ANGLED DRIVE TYPE GREASE FITTINGS</p>	HI1728	≈ 3/16" DRILL	STRAIGHT	5/16"	35	34
	HI646	≈ 3/16" DRILL	65°	3/8" HEX	10	35
	HI608	≈ 5/16" DRILL	STRAIGHT	3/8"	7	36
	HI630	≈ 5/16" DRILL	65°	3/8" HEX	3	36
	HI143	≈ 1/4" DRILL	STRAIGHT	5/16"	35	36
	HI144	≈ 1/4" DRILL	65°	3/8" HEX	10	36

KIT #: DISP-GFTAPI00

THREAD FORMING	ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
 <p>STRAIGHT & ANGLED THREAD FORMING GREASE FITTINGS</p>	H3038	1/4"-28 THREAD FORMING	STRAIGHT	5/16"	20	32
	H3053	1/4"-28 THREAD FORMING	45°	3/8"	15	32
	H3054	1/4"-28 THREAD FORMING	90°	3/8"	15	32
	HI1720	1/8"-27 THREAD FORMING	STRAIGHT	7/16"	20	33
	HI1724	1/8"-27 THREAD FORMING	45°	7/16"	15	33
	HI1723	1/8"-27 THREAD FORMING	90°	7/16"	15	33

KIT #: DISP-GFBT50

BUTTON HEAD	ITEM #	THREAD	BALL CHECK	HEX	QTY	PAGE #
 <p>HI1184 BUTTON HEAD</p>	HI1184	1/8"-27 NPTF	YES	5/8"	25	42
	HI1186	1/4"-18 PTF	YES	5/8"	10	42
	HI1188	3/8"-18 NPTF	YES	3/4"	10	42
	HI1190	1/2"-14 PTF	YES	7/8"	5	42

PRODUCT FEATURE



ALL ASSORTMENTS COME ORGANIZED IN A CLEAR DIVIDED BOX, ALONG WITH A VISUAL GUIDE TO ASSIST IN PROPER GREASE FITTING IDENTIFICATION





VANGUARD

KIT #: DISP-GF9950

<p>BASIC</p> <p>H1911S H1641S</p> <p>STRAIGHT & ANGLED STAINLESS</p>	ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
	H1641S	1/4"-28 TAPER	STRAIGHT	5/16"	5	136
H1637S	1/4"-28 TAPER	45°	3/8"	5	136	
H1911S	1/4"-28 TAPER	90°	3/8"	15	136	
H1610S	1/8"-27 PTF	STRAIGHT	7/16"	15	138	
H1689S	1/8"-27 PTF	45°	7/16"	5	139	
H1613S	1/8"-27 PTF	90°	7/16"	5	139	

KIT #: DISP-GFMI009

<p>METRIC</p> <p>H2103S H2104S</p> <p>STRAIGHT & ANGLED STAINLESS METRIC</p>	ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
	H2106S	M6 X 1.0 TAPER	STRAIGHT	7.0 MM	30	142
H2107S	M6 X 1.0 TAPER	45°	9.0 MM	10	142	
H2108S	M6 X 1.0 TAPER	90°	9.0 MM	10	142	
H2103S	M8 X 1.0 TAPER	STRAIGHT	9.0 MM	20	143	
H2104S	M8 X 1.0 TAPER	45°	9.0 MM	5	143	
H2105S	M8 X 1.0 TAPER	90°	9.0 MM	5	143	
H2109S	M10 X 1.0 TAPER	STRAIGHT	11.0 MM	10	143	
H2110S	M10 X 1.0 TAPER	45°	11.0 MM	5	143	
H2111S	M10 X 1.0 TAPER	90°	11.0 MM	5	143	

KIT #: DISP-GFBSP5099

<p>BRITISH</p> <p>H2601S</p> <p>STRAIGHT & ANGLED STAINLESS BRITISH</p>	ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
	H2600S	1/8"-28 BSPT	STRAIGHT	11.0 MM	20	146
H2601S	1/8"-28 BSPT	45°	11.0 MM	10	146	
H2602S	1/8"-28 BSPT	90°	11.0 MM	10	146	
H2603S	1/4"-19 BSPT	STRAIGHT	14.0 MM	10	146	

PRODUCT FEATURE



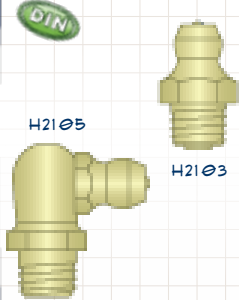
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EURO DIN

KIT #: DISP-GFM100

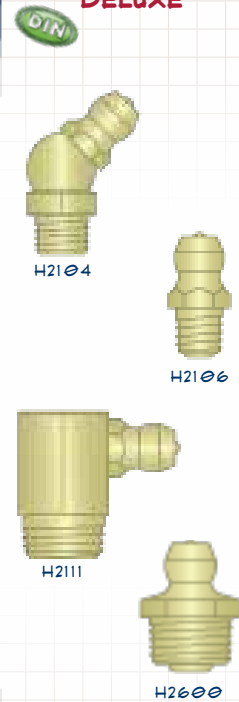
BASIC



STRAIGHT & ANGLED GREASE FITTINGS

ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
H2106	M6 X 1.0 TAPER	STRAIGHT	7.0 MM	30	154
H2107	M6 X 1.0 TAPER	45°	9.0 MM	10	154
H2108	M6 X 1.0 TAPER	90°	9.0 MM	10	154
H2103	M8 X 1.0 TAPER	STRAIGHT	9.0 MM	20	155
H2104	M8 X 1.0 TAPER	45°	9.0 MM	5	155
H2105	M8 X 1.0 TAPER	90°	9.0 MM	5	155
H2109	M10 X 1.0 TAPER	STRAIGHT	11.0 MM	10	156
H2110	M10 X 1.0 TAPER	45°	11.0 MM	5	156
H2111	M10 X 1.0 TAPER	90°	11.0 MM	5	156

DELUXE

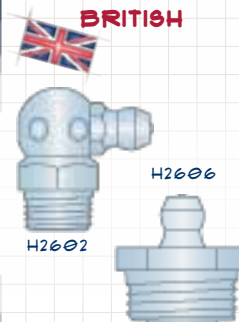


STRAIGHT & ANGLED GREASE FITTINGS

ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
H2100	M5 X 0.8 TAPER	STRAIGHT	7.0 MM	25	151
H2115	M6 X 0.15 TAPER	STRAIGHT	7.0 MM	20	151
H2106	M6 X 1.0 TAPER	STRAIGHT	7.0 MM	60	154
H2107	M6 X 1.0 TAPER	45°	9.0 MM	30	154
H2108	M6 X 1.0 TAPER	90°	9.0 MM	15	154
H2118	M8 X 0.15 TAPER	STRAIGHT	9.0 MM	10	158
H2103	M8 X 1.0 TAPER	STRAIGHT	9.0 MM	20	155
H2104	M8 X 1.0 TAPER	45°	9.0 MM	10	155
H2105	M8 X 1.0 TAPER	90°	9.0 MM	10	155
H2112	M8 X 1.25 TAPER	STRAIGHT	9.0 MM	30	155
H2113	M8 X 1.25 TAPER	45°	9.0 MM	10	155
H2114	M8 X 1.25 TAPER	90°	9.0 MM	10	155
H2109	M10 X 1.0 TAPER	STRAIGHT	11.0 MM	20	156
H2110	M10 X 1.0 TAPER	45°	11.0 MM	10	156
H2111	M10 X 1.0 TAPER	90°	11.0 MM	10	156
H2121	M10 X 1.5 TAPER	STRAIGHT	11.0 MM	20	159
H2122	M10 X 1.5 TAPER	45°	11.0 MM	5	159
H2123	M10 X 1.5 TAPER	90°	11.0 MM	5	159
H2600	1/8"-28 BSPT	STRAIGHT	11.0 MM	30	168
H2603	1/4"-19 BSPT	STRAIGHT	14.0 MM	20	168

KIT #: DISP-GFBSP100

BRITISH



STRAIGHT & ANGLED BRITISH

ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
H2600	1/8"-28 BSPT	STRAIGHT	11.0 MM	30	168
H2601	1/8"-28 BSPT	45°	11.0 MM	10	168
H2602	1/8"-28 BSPT	90°	11.0 MM	10	165
H2603	1/4"-19 BSPT	STRAIGHT	14.0 MM	20	168
H2604	1/4"-19 BSPT	45°	14.0 MM	5	168
H2605	1/4"-19 BSPT	90°	14.0 MM	5	168
H2606	3/8"-19 BSPT	STRAIGHT	17.0 MM	10	169
H2607	3/8"-19 BSPT	45°	17.0 MM	5	169
H2608	3/8"-19 BSPT	90°	17.0 MM	5	169



ALEMITE

KIT #: DISP-GFA23641

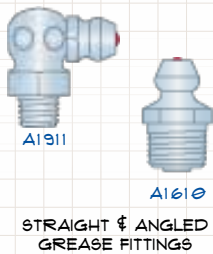
ALL-PURPOSE



ITEM #	DESCRIPTION	ANGLE	HEX	QTY	PAGE #
A1641	1/4"-28 TAPER	STRAIGHT	5/16"	24	176
A1637	1/4"-28 TAPER	45°	3/8"	12	177
A1911	1/4"-28 TAPER	90°	3/8"	12	177
A1610	1/8"-21 PTF	STRAIGHT	7/16"	36	180
A1611	1/8"-21 PTF	30°	7/16"	12	180
A1688	1/8"-21 PTF	45°	7/16"	12	180
A1612	1/8"-21 PTF	65°	7/16"	12	181
A1613	1/8"-21 PTF	90°	7/16"	12	182
A315190	1/4"-28 TAPER EASY OUT TOOL	-	-	1	178
A315191	1/8"-21 NPTF EASY OUT TOOL	-	-	1	178

KIT #: DISP-GFA23651

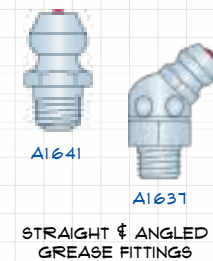
POCKET PACK



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
A1641	1/4"-28 TAPER	STRAIGHT	5/16"	12	176
A1637	1/4"-28 TAPER	45°	3/8"	6	177
A1911	1/4"-28 TAPER	90°	3/8"	6	177
A1610	1/8"-21 PTF	STRAIGHT	7/16"	12	180
A1688	1/8"-21 PTF	45°	7/16"	6	180
A1613	1/8"-21 PTF	90°	7/16"	6	182

KIT #: DISP-GFA23981

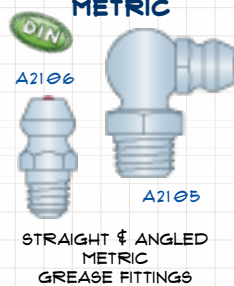
VEHICLE



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
A1641	1/4"-28 TAPER	STRAIGHT	5/16"	24	176
A1637	1/4"-28 TAPER	45°	3/8"	12	177
A1911	1/4"-28 TAPER	90°	3/8"	12	177
A1610	1/8"-21 PTF	STRAIGHT	7/16"	24	180
A1688	1/8"-21 PTF	45°	7/16"	12	180
A1613	1/8"-21 PTF	90°	7/16"	12	182

KIT #: DISP-GFA2371

METRIC



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
A2106	M6 X 1.0 TAPER	STRAIGHT	7.0 MM	10	206
A2103	M8 X 1.0 TAPER	STRAIGHT	9.0 MM	6	206
A2107	M6 X 1.0 TAPER	45°	10.0 MM	6	206
A2105	M8 X 1.0 TAPER	90°	10.0 MM	6	206
A2108	M6 X 1.0 TAPER	90°	10.0 MM	6	206
A2109	M10 X 1.0 TAPER	STRAIGHT	11.0 MM	10	206

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ASSORTMENTS



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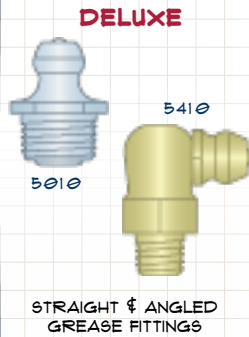
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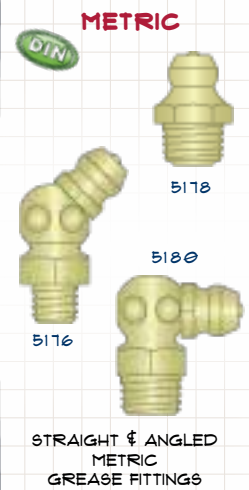
LINCOLN

KIT #: D19P-GFL5469



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
5010	1/4"-28 TAPER	STRAIGHT	5/16"	40	246
5210	1/4"-28 TAPER	45°	3/8"	10	246
5410	1/4"-28 TAPER	90°	3/8"	10	246
5000	1/8"-27 PTF	STRAIGHT	7/16"	20	247
5300	1/8"-27 PTF	65°	7/16"	10	247
5400	1/8"-27 PTF	90°	7/16"	10	247

KIT #: D19P-GFL5186



ITEM #	THREAD	ANGLE	HEX	QTY	PAGE #
5175	M6 X 1.0 TAPER	STRAIGHT	7.0 MM	40	255
5176	M6 X 1.0 TAPER	45°	9.0 MM	20	255
5177	M6 X 1.0 TAPER	90°	9.0 MM	10	255
5178	M8 X 1.0 TAPER	STRAIGHT	9.0 MM	5	255
5179	M8 X 1.0 TAPER	45°	9.0 MM	5	255
5180	M8 X 1.0 TAPER	90°	9.0 MM	5	255
5181	M10 X 1.0 TAPER	STRAIGHT	11.0 MM	5	255
5182	M10 X 1.0 TAPER	45°	11.0 MM	5	255
5183	M10 X 1.0 TAPER	90°	11.0 MM	5	255

PRODUCT FEATURE



ALL ASSORTMENTS COME ORGANIZED IN A CLEAR DIVIDED BOX, ALONG WITH A VISUAL GUIDE TO ASSIST IN PROPER GREASE FITTING IDENTIFICATION

DON'T SEE WHAT YOU NEED? CALL OUR SALES TEAM TODAY & WE WILL HELP YOU DESIGN THE ASSORTMENT TO FIT YOUR NEEDS.

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
10049	H301198	66	A301198	208	L301198	256
10130	H10130	74				
10182	H43763	70			L43763	256
10198	H10198B	75				
10199	H10199B	75				
10202	H10202B	75				
102467H	H1792	27	A1792	184	L1792	248
103307E	HMET06	67			L103307	256
103308E	HMET08	67			L103308	256
103309E	HMET10	67			L103309	256
10461	H45120	71	A45120	212	L45120	259
10462	H327033	74	A327033	209	L327033	257
10462-9	H327033S	74			L327033S	257
10540	H41729	75	A41729	209	L41729	257
106671	H47100	57	A47100	196		
10772	H10772	74				
10773	H10773	75				
109454	H1641	14	A1641	176	L1641	246
109457	H1630	36	A1630	190		
109459	H1611	20	A1611	180		
109460	H1612	21	A1612	181	L1612	247
109461	H1610	18	A1610	178	L1610	247
109462	H1613	22	A1613	182	L1613	247
110146R91	H1792	27	A1792	184	L1792	248
110891H	H131000	52	A131000	197		
11107	H50610	75	A50610	209	L11107	257
11197	H51888	76	A51888	209	L51888	257
11229	H43760	66	A43760	208	L43760	256
11348	H11348	70				
117175	H1637	16	A1637	177	L1637	246
117176	H1636	16				
12080	H51891	71	A51891	212	L51891	259
12106	H12106	76				
12287	H12287	71			L12287	259
125617	H1633	34	A1633	189		
126098	H1608	36	A1608	190	L1608	251
126121	H1607	19	A1607	179	L1607	247
126122	H1618	23	A1618	182	L1618	247
126131	H1680	15	A1680	176	L1680	246
126152	H1689	20	A1688	180	L1688	247
127743	H1623	21	A1623	181		
128274	H1698	15	A1698	176		
12989	H12989	66				
130552	H130552	76	A130552	209		
131000-T	H131000	52	A131000	197		
13129	H13129	69			L13129	258
13154	H13154	79			L13154	261
13155	H13155	79			L13155	261
131586	H131586	71	A131586	212	L131586	259
1338222C1	H301370	55	A301370	198		
14054	H14054	79			L14054	261
1452	H1452	39	A1452	193		

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
14727	H14727	77				
14771	H6135	78				
14772	H6136	78				
152127H1	H301370	55	A301370	198		
1606-B	H1606	22	A1606	182		
1607-AS	A1607-AS	240	A1607-AS	240		
1607-B	H1607	19	A1607	179	L1607	247
1608-B	H1608	36	A1608	190	L1608	251
1610-AS	A1610-AS	240	A1610-AS	240		
1610-BL	H1610	18	A1610	178	L1610	247
1611-AS	A1611-AS	241	A1611-AS	241		
1611-B	H1611	20	A1611	180		
1612-AS	A1612-AS	241	A1612-AS	241		
1612-B	H1612	21	A1612	181	L1612	247
1613-AS	A1613-AS	241	A1613-AS	241		
1613-B	H1613	22	A1613	182	L1613	247
1618-B	H1618	23	A1618	182	L1618	247
1620-B	H1620	23	A1620	182		
1623-B	H1623	21	A1623	181	L1623	247
1627-B	H1627	24	A1627	183	L1627	248
1629-B	H1629	24	A1629	183	L1629	248
1630-B1	H1630	36	A1630	190		
1631-B	H1631	28	A1631	185		
1633	H1633	34	A1633	189		
1634	H1634	62	A1634	200		
1634-B	H1634B	62	A1634B	200	L1634B	253
1636	H1636	16				
1637-AS	A1637-AS	238	A1637-AS	238		
1637-B1	H1637	16	A1637	177	L1637	246
1638-B	H1638	20	A1638	180		
1641-AS	A1641-AS	238	A1641-AS	238		
1641-B	H1641	14	A1641	176	L1641	246
1644-B	H1644	18	A1644	178		
1646-B1	H1646	35	A1646	189	L1646	250
1648-B1	H1648	28	A1648	185		
1649-B	H1649	21	A1649	181		
1650	H1650	62	A1650	200	L1650	253
1650-AS	A1650-AS	240	A1650-AS	240		
1652-B	H1652	15	A1652	176	L1652	246
1666	H1666	37	A1666	190		
1669-B	H1669	19	A1669	179		
1675-B	H1675	47	A1675	191		
1680-AS	A1680-AS	238	A1680-AS	238		
1680-B	H1680	15	A1680	176	L1680	246
1684-B	HA1684	19	A1684	179		
1688-AS	A1688-AS	241	A1688-AS	241		
1688-B	H1689	20	A1688	180	L1688	247
1692	H1692	62	A1692	200		
1692-AS	A1692-AS	240	A1692-AS	240		
1693	H1693	62	A1693	200		
1693-AS	A1693-AS	240	A1693-AS	240		
16964R91	H1911	17	A1911	177	L1911	246

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
16982R91	H1652	15	A1652	176	L1652	246
1698-B	H1698	15	A1698	176		
1699	H1699	36	A1699	190		
1711-B	H1711	28	A1711	185		
1720-B	H1720	33	A1720	187	L1720	249
1722-B	H1722	33				
1723-B	H1723	33	A1723	187	L1723	249
1724-B	H1724	33	A1724	187	L1724	249
1728-B	H1728	34	A1728	189	L1728	250
1728-S	H1728S	137	A1728S	202	L1728S	254
17295R91	H1629	24			L1629	248
173196	H1958	18	A1958	178		
1736-A	H1736	34	A1736	188		
1744-B1	H1744	36	A1744	190	L1744	251
17500	H1610	18				
17511	H1609	18				
17518	H1618	23				
17524	H1669	19				
17532	H1720	33				
17539	H1641	14				
17553	H1652	15				
17561	H1698	15				
17577	H1627	24				
17585	H1992	35				
17590	H3038	32				
17598	H3006	34				
17605	H1728	34				
17615	H3005	34				
17620	H321381	36				
17627	H1743	36				
17639	H1608	36				
17651	H1699	36				
17658	H1184	42				
17666	H1186	42				
17673	H1188	42				
17683	H1633	34				
17691	H1641N	14				
17696	H7502	40				
17700	H1851	40				
17705	H1610N	18				
17709	H1184N	42				
1770-AS	A1770-AS	239	A1770-AS	239		
1770-B1	H1770	27	A1770	184		
17719	H1680	15				
17723	H1607	19				
17732	H2106	154				
17745	H2103	155				
17755	H2109	156				
17800	H1611	20				
17810	H1688	20				
17822	H1612	21				
17832	H1613	22				

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
17844	H1723	33				
17850	H1646	35				
17864	H1637	16				
17876	H1636	16				
17884	H1911	17				
17893	H1790	17				
17896	H3010	16				
17899	H1744	36				
17906	H1629	24				
17915	H3053	32				
17921	H3054	32				
17926	H1622	23				
1792-AS	A1792-AS	239	A1792-AS	239		
1792-B	H1792	27	A1792	184	L1792	248
17934	H1606	22				
17950	H2107	154				
17953	H2108	154				
1795-B	H1795	63	A1795	201		
17966	H2104	155				
17972	H2105	155				
17978	H2110	156				
17984	H2111	156				
1814	H1814	41	A1814	193		
1815	H1815	39	A1815	193		
1820-1	H1820	45	A1820	195		
1822-A1	H1822	45	A1822	195		
1823-1	H1823	45	A1823	195		
18437R91	H47200	57	A47200	196		
18437R91	H5677	57			L5677	253
1851	H1851	40	A1851	192	L1851	252
1877	H1877	41	A1877	193	L1877	252
1885	H1885	41	A1885	193	L1885	252
18935K	H5036	37			L5036	251
1909	H1909	60				
1911-AS	A1911-AS	238	A1911-AS	238		
1911-B1	H1911	17	A1911	177	L1911	246
1921-AS2	A1921-AS2	242	A1921-AS2	242		
1921-AS3	A1921-AS3	243	A1921-AS3	243		
1921-B	H1611M	149	A1611M	205		
1921-S	H1611S	139	A1611S	203		
1922-AS2	A1922-AS2	242	A1922-AS2	242		
1922-AS3	A1922-AS3	243	A1922-AS3	243		
1922-B	H1612M	149	A1612M	205		
1922-S	H1612S	139	A1612S	203		
1923-AS2	A1923-AS2	242	A1923-AS2	242		
1923-AS3	A1923-AS3	243	A1923-AS3	243		
1923-B	H1613M	149	A1613M	205		
1923-S	H1613S	139	A1613S	203		
1925-B	H1925	60				
1930	H1930	60				
1940-B	H1940	63	A1940	201		
1952-A	H1952	36	A1952	190		

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
1958	H1958	18	A1958	178		
19583R1	H1693	62	A1693	200		
19588R91	H3038	32	A3038	186	L3038	249
19602R91	H1184	42	A1184	194	L1184	252
19602R91	HA1184	43	A1184	194		
19612R91	H3054	32	A3054	186	L3054	249
19619R91	H3014	15	A3014	176		
1961-AS2	A1961-AS2	242	A1961-AS2	242		
1961-AS3	A1961-AS3	243	A1961-AS3	243		
1961-B	H1961M	149	A1961M	205		
1961-S	H1961S	138	A1961S	203		
19625R91	H3053	32	A3053	186	L3053	249
19626R91	H1720	33	A1720	187	L1720	249
1962-B	H1962M	149	A1962M	205		
19630R91	H1723	33	A1723	187	L1723	249
1966-AS2	A1966-AS2	242	A1966-AS2	242		
1966-AS3	A1966-AS3	243	A1966-AS3	243		
1966-B	H1641M	148	A1641M	204		
1966-S	H1641S	136	A1641S	202	L1641S	254
1968-AS2	A1968-AS2	242	A1968-AS2	242		
1968-AS3	A1968-AS3	243	A1968-AS3	243		
1968-B	H1637M	148	A1637M	204		
1968-S	H1637S	136	A1637S	202	L1637S	254
1969-AS2	A1969-AS2	242	A1969-AS2	242		
1969-AS3	A1969-AS3	243	A1969-AS3	243		
1969-B	H1911M	148	A1911M	204		
1969-S	H1911S	136	A1911S	202	L1911S	254
19700R91	H1992	35	A1992	189		
1992-B1	H1992	35	A1992	189		
20011	H40996	71	A40996	212	L40996	259
20012	H43748	69	A43748	211	L43748	258
20024	HA51942	66	A51942	208	L51942	256
20026	H51943	68			L51943	258
20028	H43716	69	A43716	210	L43716	258
20029	H44701	69	A44701	211	L44701	258
20031	H316071	69			L316071	258
20287R91	H1620	23	A1620	182		
205000	H1720	33	A1720	187	L1720	249
205010	H3038	32	A3038	186	L3038	249
205200	H1724	33	A1724	187	L1724	249
205210	H3053	32	A3053	186	L3053	249
205400	H1723	33	A1723	187	L1723	249
205410	H3054	32	A3054	186	L3054	249
20691R1	H3009	34	A3009	188		
20810R1	H3016	26	A3016	185		
2103	H2103	155	A2103	206	L2103	255
2105	H2105	155	A2105	206	L2105	255
2106	H2106	154	A2106	206	L2106	255
2107	H2107	154	A2107	206	L2107	255
2108	H2108	154	A2108	206	L2108	255
2109	H2109	156	A2109	206	L2109	255
21118R1	H1736	34	A1736	188		

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
219-1	H1610	18	A1610	178	L1610	247
219-10	H1652	15	A1652	176	L1652	246
219-11	H1680	15	A1680	176	L1680	246
219-13	H1633	34	A1633	189		
219-14	H1743	36	A1743	190	L1743	251
219-16	H1608	36	A1608	190	L1608	251
219-17	H1728	34	A1728	189	L1728	250
219-2	H1610N	18				
219-20	H1792	27	A1792	184	L1792	248
219-22	H1650	62			L1650	253
219-23	H1627	24	A1627	183	L1627	248
219-3	H1607	19	A1607	179	L1607	247
219-31	H1611	20	A1611	180		
219-32	H1638	20	A1638	180		
219-35	H1692	62	A1692	200		
219-36	H1689	20	A1688	180	L1688	247
219-37	H1637	16	A1637	177	L1637	246
219-38	H1636	16				
219-4	H1644	18	A1644	178		
219-40	H1612	21	A1612	181	L1612	247
219-400	H1770	27	A1770	184		
219-401	H1634	62	A1634	200		
219-403	H1952	36	A1952	190		
219-404	H1992	35	A1992	189		
219-408	H1940	63	A1940	201		
219-41	H1623	21	A1623	181		
219-410	H3005	34	A3005	188		
219-411	H3009	34	A3009	188		
219-413	H1736	34	A1736	188		
219-417	H3014	15	A3014	176		
219-42	H1649	21	A1649	181		
219-420	H1698	15	A1698	176		
219-422	H5036	37			L5036	251
219-423	H3016	26	A3016	185		
219-427	H1620	23	A1620	182		
219-43	H3010	16	A3010	177		
219-430	H47200	57	A47200	196		
219-430	H5677	57			L5677	253
219-431	H47640	57	A47640	196		
219-431	H5678	57			L5678	253
219-432	H47100	57	A47100	196		
219-433	H301370	55	A301370	198	L301370	253
219-434	H300805	53	A300805	197		
219-435	H131000	52	A131000	197		
219-436	H313650	55	A313650	198		
219-45	H1744	36	A1744	190	L1744	251
219-46	H1630	36	A1630	190		
219-49	H1629	24			L1629	248
219-5	H1669	19	A1669	179		
219-53	H1646	35	A1646	189	L1646	250
219-54	H1925	60				
219-55	H1613	22	A1613	182	L1613	247

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
219-56	H1606	22	A1606	182		
219-57	H1911	17	A1911	177	L1911	246
219-59	H1693	62	A1693	200		
219-6	H1641N	14				
219-60	H1618	23	A1618	182	L1618	247
219-66	H1958	18	A1958	178		
219-69	H1184	42			L1184	252
219-69	HA1184	43	A1184	194		
219-7	HA1684	19	A1684	179		
219-8	H1641	14	A1641	176	L1641	246
219-84	H1842	39				
219-86	H1720	33	A1720	187	L1720	249
219-87	H3038	32	A3038	186	L3038	249
219-9	H5012	34			L5012	250
219-90	H3053	32	A3053	186	L3053	249
219-92	H1723	33	A1723	187		
219-93	H3054	32	A3054	186	L3054	249
219-98	H321381	36	A321381	190		
240646	H240646	14				
247235	H369579	33	A369579	187	L247235	249
247616	H247616	68				
25961DA	H1634	62	A1634	200		
271432	H1952	36	A1952	190		
273347	H1669	19	A1669	179		
273348	HA1684	19	A1684	179		
273349	H1627	24	A1627	183	L1627	248
273352	H1606	22	A1606	182		
273355	H1743	36	A1743	190	L1743	251
273359	H1646	35	A1646	189	L1646	250
273360	H1744	36	A1744	190	L1744	251
27632R1	H47640	57	A47640	196		
27632R1	H5678	57			L5678	253
277393	H1608	36	A1608	190	L1608	251
3005	H3005	34	A3005	188	L3005	250
3006	H3006	34	A3006	188		
300805	H300805	53	A300805	197		
3009	H3009	34	A3009	188		
3010-B1	H3010	16	A3010	177	L3010	246
301198	H301198	66	A301198	208	L301198	256
301265R1	H1649	21	A1649	181		
301370	H301370	55	A301370	198	L301370	253
3014-B	H3014	15	A3014	176		
3016	H3016	26	A3016	185		
3018	H3018	26	A3018	185		
3019	H3019	34	A3019	188		
3036	H3036	41	A3036	192		
3038-B	H3038	32	A3038	186	L3038	249
304810	H304810	52	A304810	197		
3053-B	H3053	32	A3053	186	L3053	249
3054-B	H3054	32	A3054	186	L3054	249
305859	H305859	66	A305859	208		
307925	H307925	76	A307925	209		

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
310912	H310912	68	A310912	210		
313650	H313650	55	A313650	198		
316071	H316071	69			L316071	258
317400	H317400	57	A317400	196		
317400-E	HB317400	173	A317400E	207		
320353	H320353	72	A320353	212		
320354	H320354	72	A320354	212		
320356	H320356	72	A320356	212	L320356	259
321381	H321381	36	A321381	190	L321381	251
321620	H321620	55	A321620	198		
321839	H321839	57	A321839	196		
323060	H323060	57	A323060	196		
324970	H324970	54	A324970	197		
326314	H7502	40	A326314	192	L7502	252
326935	H326935	54	A326935	197		
327033	H327033	74	A327033	209	L327033	257
327240	H327240	52	A327240	197		
328207	H328207	72	A328207	212		
328224	H328224	47	A328224	213		
328303-42	H328303	79				
328435	H700337	47	A328435	213	L700337	260
330766	H330766	53	A330766	197		
333075	H333075	55	A333075	198		
333330	H333330	27	A333330	184		
336551	H336551	70	A336551	208		
336842	H336842	76	A336842	209		
336843	H336843	76	A336843	209		
338382	H338382	57	A338382	196		
338552	H338552	67	A338552	208		
369518	H369518	55	A369518	199		
369528	H369528	55	A369528	199		
369533	H369533	63	A369533	201		
369545	H369545	35	A369545	189		
369569	H2203	163	A369569	207		
369574	H2X369574	22	A369574	182		
369575	H369575	16	A369575	177		
369577	H1743	36	A369577	190	L1743	251
369579	H369579	33	A369579	187	L247235	249
369580	H369580	35	A369580	189		
369582	H369582	32	A369582	186		
369583	H369583	55	A369583	198		
369584	H369584	32	A369584	186		
369588	H369588	47				
369591	H369591	35	A369591	188		
369593	H369593	57	A369593	196		
369599	H1684	19	A369599	179		
369601	H369601	53	A369601	197		
369604	H369604	41	A369604	192		
369605	H369605	14	A369605	176		
369606	H369606S	141	A369606S	203		
369608	H369608	21	A369608	181		
369609	H369609	27	A369609	184		

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
369610	H369610	40	A369610	192		
369615	H369615	18				
369616	H369616	26	A369616	185		
369619	H369619	63	A369619	201		
369620	H369620	16	A369620	177		
369621	H369621	54	A369621	197		
369624	H369624	14	A369624	176		
37469	H2111	156				
37500	H1610	18				
37501	H1609	18				
37503	H1618	23				
37504	H1669	19				
37505	H1720	33				
37506	H1641	14				
37507	H1652	15				
37508	H1698	15				
37511	H1627	24				
37512	H3038	32				
37515	H3006	34				
37517	H1728	34				
37518	H3005	34				
37519	H321381	36				
37520	H1743	36				
37521	H1608	36				
37522	H1699	36				
37523	H1184	42				
37524	H1186	42				
37525	H1188	42				
37527	H1633	34				
37529	H1641N	14				
37535	H1851	40				
37536	H1610N	18				
37538	H1184N	42				
37545	H1680	15				
37546	H1607	19				
37550	H2106	154				
37552	H2103	155				
37554	H2109	156				
37600	H1611	20				
37601	H1688	20				
37602	H1612	21				
37603	H1613	22				
37605	H1723	33				
37606	H1646	35				
37607	H1992	35				
37608	H1637	16				
37609	H1636	16				
37610	H1911	17				
37611	H1790	17				
37613	H3010	16				
37615	H1744	36				
37616	H1629	24				

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
37617	H3053	32				
37620	H3054	32				
37624	H1622	23				
37650	H1606	22				
37651	H2107	154				
37652	H2108	154				
37653	H2104	155				
37654	H2105	155				
37655	H2110	156				
40996	H40996	71	A40996	212	L40996	259
41729	H41729	75	A41729	209	L41729	257
42159	H42159	74	A42159	209		
43379	H43379	74	A43379	209		
43706	H43706	69	A43706	211		
43716	H43716	69	A43716	210	L43716	258
43718	H43718	68	A43718	211		
43748	H43748	69	A43748	211	L43748	258
43760	H43760	66	A43760	208	L43760	256
43761	H43761	70	A43761	208		
43762	H43762	70	A43762	208		
443566	H1728	34	A1728	189	L1728	250
443567	H321381	36	A321381	190		
443570	H1744	36	A1744	190	L1744	251
44701	H44701	69	A44701	211	L44701	258
44734	H44734	75	A44734	209		
45120	H45120	71	A45120	212	L45120	259
47100	H47100	57	A47100	196		
47100-E	HB47100	173	A47100E	207		
47200	H47200	57	A47200	196		
47200-E	HB47200	173	A47200E	207		
47640	H47640	57	A47640	196		
47703	H47703	77	A47703	209		
5000	H1610	18	A1610	178	L1610	247
5000-1	H1610N	18			L1610N	247
5000-9	H1610S	138			L1610S	254
5003	H1607	19	A1607	179	L1607	247
5009	H1684	19	A369599	179		
5010	H1641	14	A1641	176	L1641	246
5010-1	H1641N	14			L1641N	246
5010-9	H1641S	136	A1641S	202	L1641S	254
5012	H5012	34			L5012	250
5013	H1652	15	A1652	176	L1652	246
5014	H1680	15	A1680	176	L1680	246
5029	H1743	36	A369577	190	L1743	251
5031	H1608	36	A1608	190	L1608	251
5033	H1728	34	A1728	189	L1728	250
5033-9	H1728S	137	A1728S	202	L1728S	254
5036	H5036	37			L5036	251
5044	H321381	36	A321381	190	L321381	251
5045	H1650	62	A1650	200	L1650	253
5050	H1627	24	A1627	183	L1627	248
50500	H50500	57	A50500	196		

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
50610	H50610	75	A50610	209	L11107	257
5099	H1930	60			L1930	253
51055	H51055	79			L51055	261
5175	H2106	154	A2106	206	L2106	255
5176	H2107	154	A2107	206	L2107	255
5177	H2108	154	A2108	206	L2108	255
5178	H2103	155	A2103	206	L2103	255
5179	H2104	155			L2104	255
5180	H2105	155	A2105	206	L2105	255
5181	H2109	156	A2109	206	L2109	255
5182	H2110	156			L2110	255
5183	H2111	156			L2111	255
51888	H51888	76	A51888	209		
51891	H51891	71	A51891	212	L51891	259
51942	HA51942	66	A51942	208	L51942	256
51943	HA51943	68	A51943	211		
5200	H1689	20	A1688	180	L1688	247
5210	H1637	16	A1637	177	L1637	246
5210-9	H1637S	136	A1637S	202	L1637S	254
52797	H52797	67	A52797	208		
5300	H1612	21	A1612	181	L1612	247
5308	H1623	21	A1623	181	L1623	247
5318	H1744	36	A1744	190	L1744	251
5350	H1629	24	A1629	183	L1629	248
5385	H1646	35	A1646	189	L1646	250
5400	H1613	22	A1613	182	L1613	247
5410	H1911	17	A1911	177	L1911	246
5410-9	H1911S	136	A1911S	202	L1911S	254
5505	H1618	23	A1618	182	L1618	247
5527	H1792	27	A1792	184	L1792	248
5527-9	H1792S	137			L1792S	254
5677	H5677	57			L5677	253
5678	H5678	57			L5678	253
5679	H5679	57			L5679	253
5680	H5680	57			L5680	253
5698	H301370	55	A301370	198	L301370	253
5701	H1184	42	A1184	194	L1184	252
5706	H1186	42	A1186	194	L1186	252
5711	H1188	42	A1188	194	L1188	252
571382	H3014	15	A3014	176		
58M5573	H2106	154	A2106	206	L2106	255
58M5575	H2109	156	A2109	206	L2109	255
58M5578	H2110	156				
58M5632	H2107	154	A2107	206	L2107	255
58M7014	H2108	154	A2108	206	L2108	255
606943	H1669	19	A1669	179		
6135	H6135	78				
6136	H6136	78				
61991R91	H300805	53	A300805	197		
66200	H66200	79				
66201	H66201	79				
66260	H66260	79				

OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
66414	H66414	79				
66415	H66415	79				
66714	H66714	79				
66716	H66716	79				
67069	H131586	71	A131586	212	L131586	259
67171	H67171	72			L67171	259
67198	H320356	72	A320356	212	L320356	259
67371	H1222	75				
68462	H68462	79				
68464	H68464	79				
700259	H700259	17				
700313	H1952	36				
700337	H700337	47	A328435	213	L700337	260
700375	H3005	34	A3005	188	L3005	250
700392	H1851	40	A1851	192	L1851	252
700395	H700395	14				
700396	H3010	16	A3010	177	L3010	246
700397	H1877	41	A1877	193	L1877	252
700502	H1885	41	A1885	193	L1885	252
700502A	H7502	40	A326314	192	L7502	252
700504	H700504	35			L700504	250
700506	H1634B	62	A1634B	200	L1634B	253
80710	H1644	18	A1644	178		
80711	H1612	21	A1612	181	L1612	247
80717	H1689	20	A1688	180	L1688	247
80722	H1728	34	A1728	189	L1728	250
86050275	H1618	23	A1618	182	L1618	247
86624015	H1992	35	A1992	189		
86977989	H1693	62	A1693	200		
87017581	H1723	33	A1723	187		
87019498	H1720	33	A1720	187	L1720	249
87283549	H313650	55	A313650	198		
87311639	H1698	15	A1698	176		
87318964	H1649	21	A1649	181		
87414	H3038	32	A3038	186	L3038	249
87415	H3054	32	A3054	186	L3054	249
87569	H3053	32	A3053	186	L3053	249
87779109	H1606	22	A1606	182		
87791027	H1607	19	A1607	179	L1607	247
88775	H1792	27	A1792	184	L1792	248
91916R91	H313650	55	A313650	198		
A112	H112	71	A112	212		
A113	H113	71	A113	212		
A1184	HA1184	43	A1184	194	L1184	252
A1186	HA1186	43	A1186	194	L1186	252
A1188	HA1188	43	A1188	194	L1188	252
A1190	HA1190	43	A1190	194		
A336	HA336	49	A336	191		
A358	HA358	49				
A359	HA359	49	A359	191		
A684	HA684	49				
AE26352	H301370	55	A301370	198	L301370	253

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OEM PART #	G.L. HUYETT ORDER #	PG #	ALEMITE® G.L. HUYETT ORDER #	PG #	LINCOLN® G.L. HUYETT ORDER #	PG #
AE38448	H317400	57	A317400	196		
AH20868	H313650	55	A313650	198		
AS15001-1	A1641-AS	238	A1641-AS	238		
AS15001-2	A1680-AS	238	A1680-AS	238		
AS15001-3	A1637-AS	238	A1637-AS	238		
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 P.O. Box 232
 Minneapolis, Kansas 67467

ACME Supply
 Exit 49 Roadrunner Expressway
 Prairie Dept., Kansas 67778
 UNITED STATES

91-02-72
 Order No.: 1020435-GLH
 Invoice #: 3272

1 Each #250-18 Woodruff Key Kit	\$ 20.00/EA.	520.00
#300-12 Snap Ring Kit	17.00/EA.	68.00
#350-36 1/2" Woodruff Key Kit	35.00/EA.	35.00
1/4"		
1-1/8" Reot. Key Stock	9.25/FT.	18.50
1/4" x 1"	.36/FT.	.60
5/8" Shafting x 3 FT. Long	8.50/FT.	8.50
3/8" Shafting x 3	6.25/FT.	31.40
3/4" x 3	1.62/BAR	16.20
1-7/8" x 3	1.05/	24.70
1-1/16" x 3	4.94/	15.00
	7.50/	18.48
	9.24/	28.40
	14.20/	
		\$289.90
		35.64
		5325.91

UPS Charge 35.64

Shipped 3-2-72
 via UPS = \$ 35.64
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 1% discount on \$ 289.90 only.
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G. L. HUYETT
 Contact Information

Phone No.: 785.392.3017
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 Website: WWW.HUYETT.COM

GREASE FITTING ASSORTMENT #GF100

1/4"-28 Straight #11641	1/4"-28 45° Angle #11627	1/8" NPT Straight #11610	1/8" NPT Straight #11610	1/8" NPT 45° Angle #11658
1/4"-28 Straight #11641	1/4"-28 90° Angle #11611	1/8" NPT Straight #11610	1/4"-28 Straight 15/16" Long #11680	1/8" NPT 90° Angle #11613

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 Minneapolis. He incorporated the business in 1906 which is 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 actually an old hotel that was hitched to a team of horses and drug a ¼ mile down South Concord Street so that GLH 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 that is 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 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. Local residents were known to gather on Sunday afternoon's under a big tree and count machinery bushings into 10's and 25's and wire them up while sipping whiskey. The group was affectionately known as the "South Side Sunday Sipper's Society", or "SSSSS".

Soon Bob took to the road and expanded product lines to include, among other things, pins, keystack, grease fittings, snap rings, and more. Bob worked days packing and shipping orders and answering the phone, while his wife Dolly worked at 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.



THE OLD TIN SHED
126 SOUTH CONCORD STREET
MINNEAPOLIS, KS USA

Dec. 24, 2009
**Minneapolis, Kansas
Messenger Newspaper**

**G. L. Huyett announces
Project Drive Grant Winners**

Winners in the third annual Project Drive, a comprehensive community improvement initiative sponsored by G. L. Huyett, were announced during the annual Thanksgiving dinner held at the Company on November 25, 2009.

Sisters of St. Joseph of the Nazareth Convent and Academy, located in Concordia, were awarded the grand prize and received a check in the amount of \$1,115.00. Their project sought funds to help renovate a facility in Concordia to house their Neighbor-to-Neighbor (N2N) program. The N2N program provides women in rural, small communities an opportunity to help them develop individual goals, based on needs, abilities and support systems.

PROJECT DR

Information on this community development activity at www.huyett.com/projectdrive.



G.L. HUYETT CIRCA 1939

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