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Account Number: _____ Discount %: _____

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All trademarks mentioned belong to their respective owners. Prices in this catalog supersede those found in the Hercules Sealing Products 2023 Seal, Mobile Kit, Industrial Kit, Cylinder, and Metal Working catalogs. Prices are subject to change at any time. Go to www.Herculesus.com to view current pricing.

US - Introduction

The Corporate Office of Hercules® Sealing Products is located in Clearwater, Florida. Hercules® is an ISO 9001 registered distributor of hydraulic and pneumatic seals, seal kits, repair parts, and replacement cylinders for mobile and industrial applications. Hercules® provides seal products used in hydraulic cylinders to a variety of industries for equipment such as: construction, mining, aerial lift and crane, dump and refuse trucks, material handling, industrial plant applications, paving, agriculture, and logging equipment. Industry-leading technical catalogs provide application, dimensional, material specifications and product pricing.

Hercules® Sealing Products distribution center is located in Louisville, Kentucky. The 120,000 sq. ft facility is located ten minutes from the UPS World Port which allows Hercules to offer the latest cut-off times in the US Seal Industry. The facility features state-of-the-art automation, inventory densification and design scalability.

A technical sales force with 8:00 a.m. to 8:00 p.m. ET hours of operation and an engineering department will provide you with unparalleled technical service. Additional value added services include reduced freight rates, special packaging, wide selection of aftermarket seal kits, largest in-stock inventory in the industry, and same day shipping on orders before 8:00 p.m. ET. Cylinder repair parts such as cylinders, power units, and cylinder rebuilding accessories are also available.

Hercules® Sealing Products offers products from the leading suppliers in the fluid power industry. These suppliers are continually rated and monitored based on the quality of their products. This process enables Hercules® to exceed our goal to deliver the highest quality products and services in the industry.



US HEADQUARTERS AND CALL CENTER

420 Park Place Blvd, Suite 100
Clearwater, FL, 33759 U.S.A.

Tel: **727.796.1300**
Toll Free: **800.777.5617**
Fax: **727.797.8849**
Toll Free Fax: **800.759.6391**
email: **sales@HerculesUS.com**
www.HerculesUS.com
Customer Service Hours:
8:00 AM to 8:00 PM EST
Monday to Friday



DISTRIBUTION CENTER

4400 Commerce Crossing Dr. Suite 102
Louisville, KY 40229 U.S.A.

Tel: **502.276.0829**
Toll Free: **800.777.5617**
Fax: **502.290.3296**
Toll Free Fax: **800.759.6391**
email: **sales@HerculesUS.com**
www.HerculesUS.com

Online Ordering - www.HerculesUs.com

Hercules now offers extended webstore hours for next-day air delivery! Place your orders by **8:30pm EST** and receive your shipment the following day!

Placing orders on the Hercules® website is a fast and easy alternative to calling or faxing in your orders. Simply place items in the shopping cart and register during the checkout process, or click the "register" button on the upper right-hand corner of the homepage to start the process prior to shopping. First-Time visitors need to fill out a short profile to view company specific discounts and inventory. To shop quickly, click the "Quick Order Entry" button on the left side menu and add items by part number directly into your shopping cart. For website assistance, e-mail our Help Desk at HelpDesk@HerculesUS.com, click the Live Chat, or call 727-796-1300.

Sign-up for the Hercules e-newsletter, found at the bottom of the homepage, to receive notice of web-only specials, new product announcements and industry specific articles.



Catalog Offerings

Seal Catalog - The Hercules® Seal Catalog contains over 800 pages of seals in the most popular styles and sizes. The easy-to-use format quickly locates u-seals, piston seals, scrapers, o-rings, piston rings, buffer seals, and much more. Each listing includes seal material, temperature and pressure specifications, and cross-sectional drawings to simplify selection.

Mobile Kit Catalog - The Hercules® Kit Catalog contains hydraulic and kit information for mobile applications. Complete cylinder repair kits are listed from over 140 different brands of equipment for construction, mining, aerial lift and crane, logging, refuse, agriculture, paving, and material handling. In addition, a cylinder application reference guide is available to simplify your selection.

Cylinder and Repair Parts Catalog - The Hercules® Cylinder Catalog is packed with valuable information for cylinder replacement and repair parts. It also features our very own HTR, HSTR, HMW, HCW, HTC, and Bobcat cylinders as well as telescopic cylinders, power units, and cylinder repair parts.

Metal Working Catalog - The Hercules® Metal Working Catalog provides exclusive product offerings for drills, taps, end mills, countersinks, dies, band saw blades, carbide inserts and holders, honing stones, and rotary thread files for the metal working environment. It also features in-depth technical information to simplify your selection process.

Hercules Social Media

Get connected to Hercules® Sealing Products - Go to the Hercules website at www.HerculesUs.com to link directly to our Facebook, Twitter, LinkedIn, Instagram and Hercules YouTube Channel.



Freight Information

Low cost air and ground shipments available world wide. Guaranteed service available (restrictions apply to select zip codes.) One Call to Hercules® Sealing Products gets you top quality seal and repair products, cost saving freight rates, and a wide variety of delivery services to save you time and money! Hercules® pays the dimensional weight charges for air US shipments on boxes up to 13" cubed (additional accessorail charges may apply).



**MOST ARRIVE
WITHIN 2 DAYS!**

United States Postal Service Priority Flat-Rate Options

If It Fits, It Ships for One Low Rate - Anywhere in the Continental United States!

The United States Postal Services is available as a delivery option for all domestic locations. Your flat-rate options are as follows: Small padded envelope, medium and large boxes. When placing your order online at www.HerculesUS.com the envelope or box that would best fit your shipment size will appear on the Shipping and Payment screen. Orders placed via phone or fax will be determined by your regional sales representative. **Shipments placed by 11am EST will ship the same day.**

\$15.00*

Priority Flat-Rate Envelope
12-1/2 x 9-1/2 or
8-5/8 x 5-3/8 x 1-5/8



\$22.00*

Priority Flat-Rate
Medium Box
11" x 8 1/2" x 5 1/2"



\$27.00*

Priority Flat-Rate
Large Box
12" x 12" x 5 1/2"



* Includes a \$3.00 shipping and handling charge.

UPS and FedEx Special Discounted Rates

These discounted rates offer significant savings on shipments for zones 103 and up (additional accessorail charges may apply).
*** Rates may be subject to change at any time.**



NEXT DAY AIR

(1-7 lbs.)

Package Weight	Rate
1 LB.	\$42.40
2 LBS.	42.40
3 LBS.	44.80
4 LBS.	49.70
5 LBS.	54.90
6 LBS.	60.15
7 LBS.	67.75

8LBS. AND UP - PUBLISHED UPS RATES.



NEXT DAY AIR

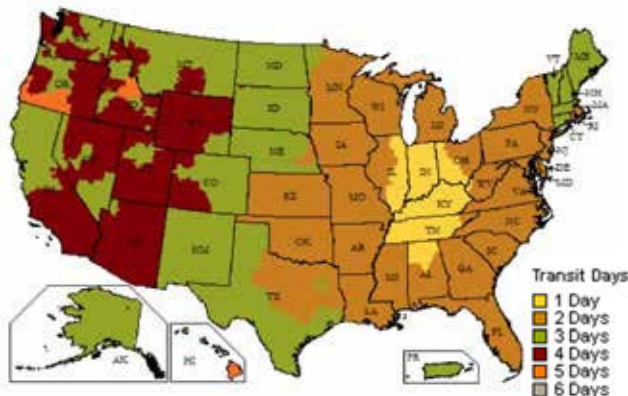
(1-7 lbs.)

Package Weight	Rate
1 LB.	\$42.40
2 LBS.	42.40
3 LBS.	44.80
4 LBS.	49.70
5 LBS.	54.90
6 LBS.	60.15
7 LBS.	67.75

8LBS. AND UP - PUBLISHED FEDEX RATES

UPS GROUND TRANSIT MAP

Call for Rates.



FEDEX GROUND TRANSIT MAP

Call for Rates.



Order Cut-Off Times

At Hercules, we understand the importance of getting your equipment fixed fast! Therefore, it is imperative that you receive your shipments on-time. Orders placed by the following cut-off times will ship the same day. All cut-off times are based on Eastern Time Zone.

Order Cut-Off Times	Freight Carriers
11:00 am EST	USPS Mail Services
3:30 pm EST	UPS Ground
8:00 pm EST	UPS Air Services
3:30 pm EST	FedEx Ground Services
5:30 pm EST	FedEx Air Services
3:30 pm EST	LTL – All Freight
3:30 pm EST	International Air FedEx and DHL
5:00 pm EST	International Air UPS

HERCULES® ORDERING INFORMATION

DOMESTIC CUSTOMER SERVICE

SATISFACTION

Total customer satisfaction is our goal. Please call with any questions or problems. Your input helps us to improve our service. We want to be your most reliable supplier.

HOW TO OPEN AN ACCOUNT WITH US - SAME DAY CREDIT APPROVAL

1. Copy and fill out the credit application found on page viii of this catalog.
2. Email or Fax completed and signed Credit Application and your sales tax exempt certificate (if applicable) for processing to 1-800-759-6391 or sales@herculesus.com.
3. Hercules will send an Open account notice when your account is approved. — If you need additional information call our Accounting Department at 800-244-5617 or email: **AR@herculesus.com**

HOW TO ORDER FROM US

Hercules can process orders in a number of ways. Orders can be placed by phone 1-800-777-5617, by email sales@herculesus.com, by fax 1-800-759-6391, or by using our website at www.herculesus.com. Our technical sales staff is also available TOLL FREE from 8 a.m. to 8:00 p.m. EST to take your order, assist you in finding the correct part, or answer any questions you may have.

SHIPMENT / DELIVERY

Every order we receive is classified as a RUSH. You tell us how fast you need it. Shipping agreements with UPS and FedEx allow us to offer substantial freight discounts.

PRICE QUOTATIONS/NON-CATALOG ITEMS

Hercules® is constantly adding parts to inventory. If you need a part that is not listed in our catalog, call, email, fax, or send us a sample of the part you need, roughly how many pieces are required, and we will source, quote, order, and stock the parts for you. Call, email or fax us anytime for price and delivery on hard-to-find or non-catalog items. Formal quotations for product and freight costs are gladly furnished upon request.

CREDIT CARDS

Hercules® accepts all major credit cards.

INTERNATIONAL CUSTOMER SERVICE

PHONE / FAX NUMBERS

PHONE: (727) 796-1300
FAX: (727) 797-8849

E-MAIL/WEBSITE

IntlSales@herculesus.com
http://www.herculesus.com

PAYMENT

Payment for all products must be in U.S. dollars.

REMIT ADDRESS: HB Sealing Products Inc, PO Box 736286, Dallas, TX 75373-6286

PLACING ORDERS FOR SHIPMENT

1. Fax, mail, email or telephone order to Hercules® specifying method of shipment.
2. Hercules® will fax or email order value to you. All prices are in U.S. dollars.
3. Wire instructions: Contact Hercules® for wire transfer details



ONLINE PAY BILLING PORTAL

Discover the convenience of Hercules' revamped Online Payment Portal. Pay invoices, download or email PDF invoices, and access payment receipts effortlessly.

Manage your payments from anywhere, anytime!

You must re-register for the New Improved Billing Portal by using your Customer ID and an Invoice Number.

Go online at www.HerculesUS.com.

SHIPMENT / DELIVERY

Hercules® will gladly ship by the carrier of your choice. Please specify any special shipping requirements you may have. All shipments are Ex-Works Louisville, KY, USA, unless otherwise specified or prearranged. Additional charges may be incurred for inbound freight and/or special packaging.

PRICE QUOTATIONS/NON-CATALOG ITEMS

Call, fax, or email us anytime for price and delivery. Formal quotations are gladly furnished upon request.

QUALITY

Hercules® has achieved a worldwide reputation as an organization committed to providing products and services that continually meet or exceed the needs and expectations of our customers. Hercules® is an ISO 9001 registered company.

ANTI-DEFAMATION POLICY

All equipment manufacturer's names, part numbers, and descriptions are used for reference purposes only. We do not imply that any part shown is the product of these manufacturers. We also do not imply that the list price shown is exactly that of the manufacturer.

TERMS AND CONDITIONS

BACKORDERS

Backorders will ship as ordered and additional freight charges will apply. Cancellation of backorders must be requested at the time of order to prevent additional freight charges. All backorders less than \$5.00 will be automatically canceled unless specified otherwise by the customer at the time of order.

CREDIT TERMS

Our payment terms for all open accounts are NET 30 days. Accounts outstanding over 30 days are reviewed daily. At 45 days past due (75 days from invoice date) all orders and backorders will automatically be put on credit hold until full payment is received.

RETURNS

Before you return any item, please call our customer service desk to obtain a Return Material Authorization (RMA) Number. Returned shipments without a Returned Material Authorization (RMA) number will be rejected. Our Receiving Department cannot accept a return without an RMA Number. Parts must be returned within 30 days of receipt of goods. Returned items are subject to a 20% restocking charge. All returns are subject to inspection by our Quality Control Department and may be rejected if not in resalable condition. Special order items are non-returnable.

CLAIMS

It is the policy of HB Sealing Products that inquiries for pricing discrepancies, order discrepancies, freight claims and customer returns must be reported to Hercules Sealing Products Customer Service within 30 days of invoice. Claims/discrepancies reported after 30 days of invoice will not be honored.

ORDER CANCELLATIONS

Orders for Standard Cataloged Products will not be canceled once processed. All custom supplied, non-cataloged products cannot be canceled. Additional cancellation charges may apply.

EXCLUSION OF WARRANTIES; LIMITATIONS OF DAMAGES

EXCEPT AS PROVIDED IN THE NEXT SECTION (TITLED "HERCULES BRAND PRODUCTS CYLINDER WARRANTY") ANY WARRANTIES ON THE PRODUCTS SOLD BY HB SEALING PRODUCTS ARE THOSE MADE BY THE MANUFACTURER. EXCEPT AS PROVIDED IN THE "HERCULES BRAND PRODUCTS CYLINDER WARRANTY", HB SEALING PRODUCTS HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HB SEALING PRODUCTS NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS.

IN NO EVENT SHALL HB SEALING PRODUCTS BE LIABLE TO BUYER FOR ANY INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING (WITHOUT LIMITATION) LOST PROFITS, COSTS OF DELAY, PERSONAL INJURY, PROPERTY DAMAGE OR LIABILITIES TO BUYER OR THIRD PARTIES ARISING FROM ANY SOURCE. THIS LIMITATION ON DAMAGES SHALL APPLY TO ALL PRODUCTS SOLD BY HB SEALING PRODUCTS, INCLUDING HERCULES BRAND PRODUCTS CYLINDERS. IN THE EVENT, THAT, NOTWITHSTANDING THE TERMS OF THIS SECTION, HB SEALING PRODUCTS IS FOUND LIABLE FOR DAMAGES BASED ON ANY DEFECT OR NONCONFORMITY IN PRODUCTS SOLD BY IT, INCLUDING HERCULES BRAND PRODUCTS CYLINDERS, ITS TOTAL LIABILITY FOR EACH DEFECTIVE OR NONCONFORMING PRODUCT SHALL NOT EXCEED THE PRICE PAID BY BUYER FOR SUCH DEFECTIVE PRODUCT.

HERCULES® BRAND PRODUCTS CYLINDER WARRANTY

HB Sealing Products herein supplies a limited express warranty to its buyers who purchase standard or custom Hercules Brand Products Cylinders ("Cylinders"). HB Sealing Products warrants that such Cylinders are free from defects in material and workmanship for a period of 12 months from the date the Cylinders are shipped from HB Sealing Products' facility. HB Sealing Products will repair or replace, at its sole option, Cylinders that are found to be defective in material or workmanship upon inspection by HB Sealing Products personnel when the Cylinders have been used under conditions for which the Cylinders were designed to operate. No warranty will be in effect for any of the following reasons:

- Chemical attack, corrosion or erosion;
- Non-compatible or dirty hydraulic fluid;
- Seal degradation due to contamination (including hydraulic fluids), excessive heat or misapplication;
- Excessive side loading;
- Maintenance or disassembly of the cylinder if performed by anyone other than HB Sealing Products personnel without HB Sealing Products' permission, prior to the date of warranty expiration;
- Removal of the HB Sealing Products ID tag indicating bore, stroke, and other information concerning traceability; or Instances of improper installation or misapplication of the Cylinders.

Due to the variety of operating conditions and applications for the Cylinders and HB Sealing Products' related products, HB Sealing Products recommends that Buyer analyze all aspects of the application and carefully select the correct cylinder product to fit the buyer's application. Buyer is solely responsible for the cylinder product selection in assessing that all performance, safety and warning requirements of the application are met. **IMPROPER CYLINDER PRODUCT SELECTION, MISAPPLIED ENGINEERING OR IMPROPER USE OF THE CYLINDERS AND RELATED PRODUCTS DESCRIBED HEREIN MAY CAUSE DEATH, PERSONAL INJURY AND/OR PROPERTY DAMAGE.** HB Sealing Products does not imply or represent that the Cylinders will work properly in any customer application. No sales agent of HB Sealing Products shall have the right to determine warranty periods, terms or conditions for Cylinders if such statements by the sales agents are different from those included herein. Buyer understands that HB Sealing Products will not be held liable for any other costs or damages including any charges for removal, installation, assembly or any other charges in connection with the replacement or repair of the Cylinders. All returned products must have, before being returned to HB Sealing Products, an "RMA" (return material authorization) number assigned to it by HB Sealing Products' customer service department.

THE WARRANTY STATED IN THIS SECTION IS HB SEALING PRODUCTS' SOLE AND EXCLUSIVE WARRANTY PERTAINING TO THE CYLINDERS, AND HB SEALING PRODUCTS HEREBY DISCLAIMS ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE FOR THE CYLINDERS.

CREDIT APPLICATION



Hercules Sealing Products
420 Park Place Blvd, Suite 100
Clearwater, FL 33759 USA

CREDIT APPLICATION

Toll Free: 1-800-777-5617
International: (727)796-1300
Fax: (800)759-6391
Intl Fax: (727)797-8849
E-Mail: sales@herculesus.com

Please Indicate Type
of Request:
☐ Catalog
☐ COD
☐ Credit Card
☐ Net 30

COMPANY INFORMATION

Company Name: _____
Billing Address: _____ City: _____ State: _____ Zip: _____
Shipping Address: _____ City: _____ State: _____ Zip: _____
Branch Office: _____ DBA: _____
Phone: _____ Fax: _____
Business Structure (Sole Ownership, Partnership, Corporation): _____
Type of Business: _____ Year Business Established: At current Address Since: _____
Federal ID#: _____ President/Owner SSN: _____
Owner/President: _____ Controller: _____
Accounts Payable Contact: _____ AP Email Address (Invoices will be emailed here): _____
Primary Contact Person: _____ Title: _____
Controller: _____ Annual Purchases: _____
Website: _____ E-Mail: _____

Primary Industry: ☐ Construction ☐ Mining ☐ Refuse/Waste ☐ Material Handling ☐ Aerial Lift/Crane ☐ Agriculture ☐ Oil and Gas
(Check One) ☐ Concrete/Paving ☐ Logging/Forestry ☐ Industrial Plant ☐ Automotive/Marine ☐ Rental Equipment

BANK REFERENCES

Bank Name and Address: _____
Account #: _____ Contact Name & Phone: _____

TRADE REFERENCES

Firm Name: _____ City, State: _____ Phone/Email/Fax: _____
1: _____
2: _____
3: _____

CREDIT AGREEMENT

I understand the following and will abide by your company regulations:

1. Notify Hercules Sealing Products of any changes in ownership of your company.
2. If granted credit, our company agrees to pay all invoices within 30 days of invoice date.
3. It is agreed that our company will pay 1.5% per month which is 18% yearly for all past due balances.
4. It is agreed that our account will become COD if we fail to pay invoices within the above stated terms.
5. Our company financial condition is satisfactory and we can meet all financial obligations.
6. There are no lawsuits or judgements against me at this present time. If our company defaults on payment of any outstanding valid invoices we agree to pay attorney and/or collection expenses.

Credit Amount Requested

AGREE TO PAY MY ACCOUNT WITHIN THE TERMS AND AUTHORIZE YOU TO OBTAIN SUCH INFORMATION YOU MAY REQUIRE CONCERNING THIS APPLICATION.

Date _____ Signed _____

X _____ Title _____

PERSONAL GUARANTEE

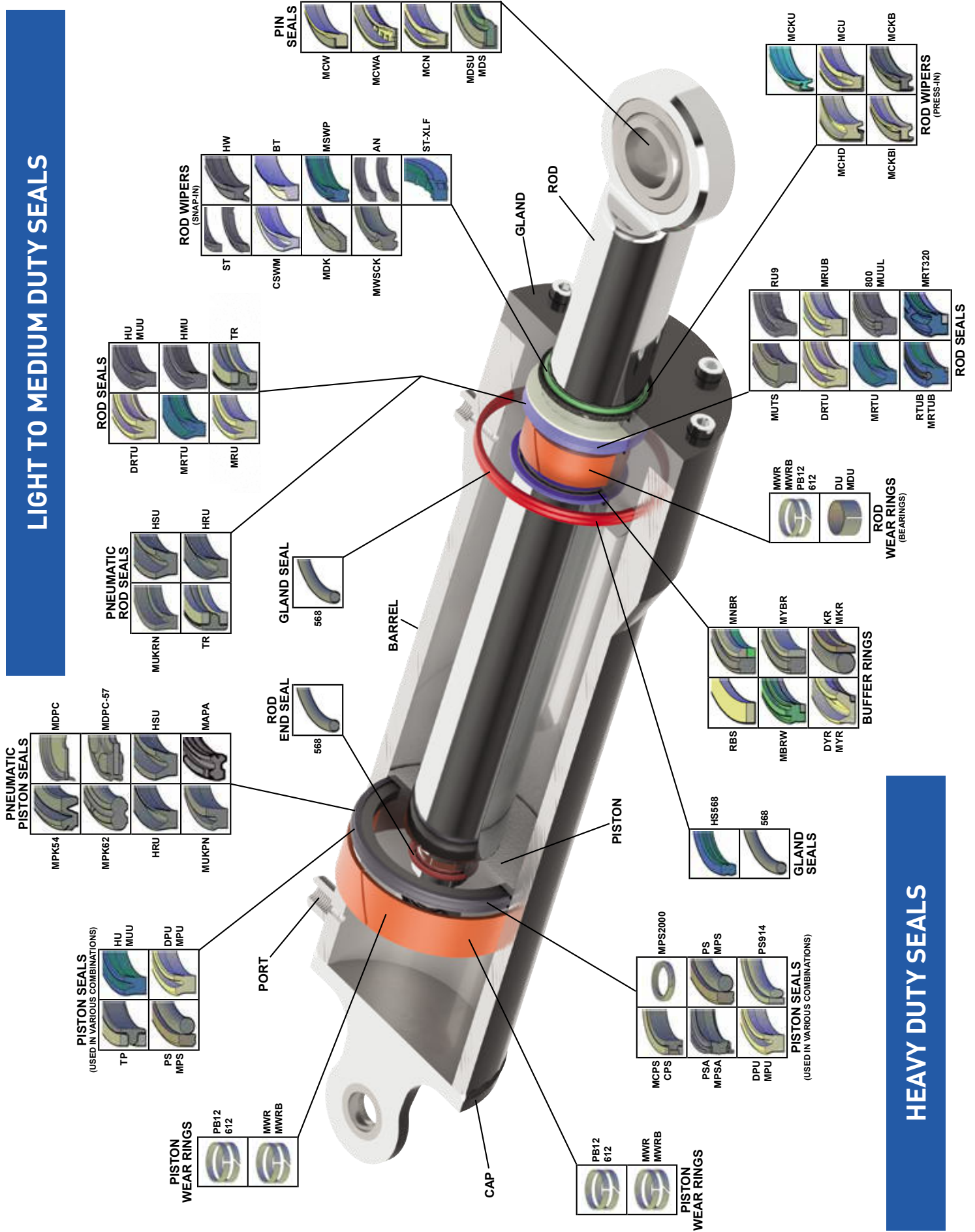
REFERRAL INFORMATION

How did you learn about Hercules Sealing Products? Please choose one and provide detailed information:

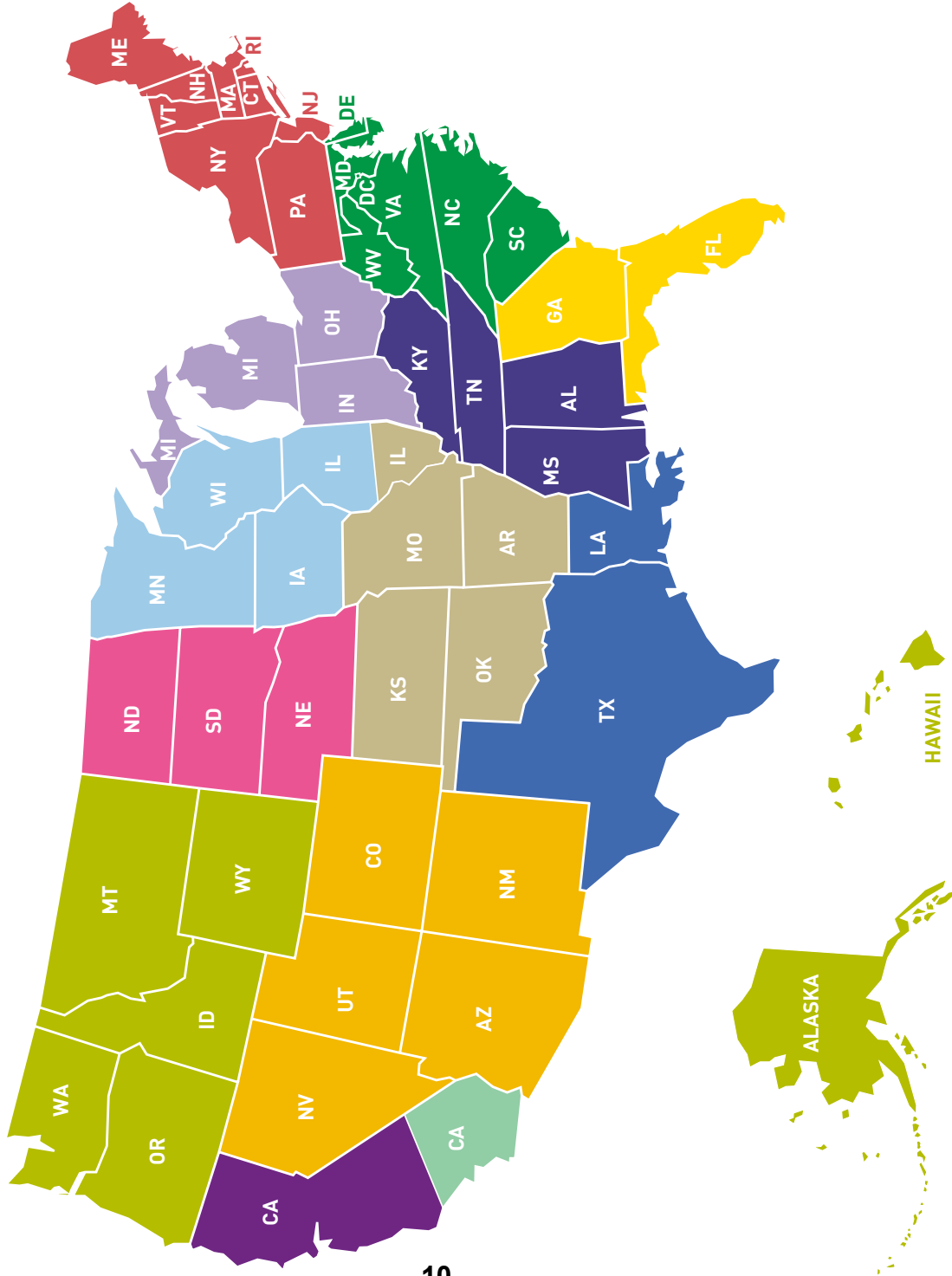
Trade Show: _____ Magazine: _____ Previous Employer: _____
Hercules Customer: _____ Website or Search: _____ Other: _____

LIGHT TO MEDIUM DUTY SEALS

TYPICAL SEALING COMPONENTS



HEAVY DUTY SEALS



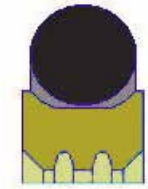
- Robert Bires**
Email: rbires@herculesus.com
Phone: 727.463.4440
- Harry Conn**
Email: hconn@herculesus.com
Phone: 804.317.1715
- Michelle Cromer**
Email: mcromer@herculesus.com
Phone: 727.509.0268
- Ben Emtman**
Email: bemtman@herculesus.com
Phone: 727.212.1381
- Tyler Loiseau**
Email: tloiseau@herculesus.com
Phone: 727.330.0530
- Jason Looker**
Email: jlooker@herculesus.com
Phone: 727.330.0666
- Luis Rodriguez**
Email: lrodriguez@herculesus.com
Phone: 727.386.2487
- Jeff Roman**
Email: jroman@herculesus.com
Phone: 727.219.7558
- Wayne Staab**
Email: wstaab@herculesus.com
Phone: 904.304.2383
- Darren Wallace**
Email: dwallace@herculesus.com
Phone: 727.235.9035
- Hercules Inside sales**
Email: InsideSales@herculesus.com
Phone: 727.796.1300
- Hercules Inside sales**
Email: InsideSales@herculesus.com
Phone: 727.796.1300
- Tim Lee**
Email: tlee@herculesus.com
Phone: 727.796.1300 x 1040

Industrial MRO Specialists

- Robbie Davis - (West)**
Email: rdavis@herculesus.com
Phone: 727.420.4340
- Ron Opp (East)**
Email: ropp@herculesus.com
Phone: 727.410.4378

CUSTOM SEAL CONFIGURATOR

Fast, Easy to Use • Real Time Pricing & Availability • Dozens of Profiles to Choose From



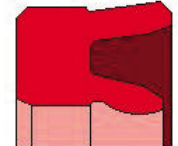
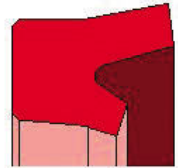
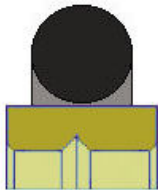
Added Features Include:

Save it to Your List

Add to Cart

Email Quote Directly to Your Customers

Order History



Go To www.HerculesUS.com
Click on Custom Seals Tab
and Create Your Custom Seal!



HERCULES SEALS ON DEMAND Custom Seal Configurator

Providing fast high quality seals in various combinations of sizes, materials, and configurations.

If we don't stock it, we'll make it!



Scan **NOW** to log in or register to customize your seal using our Seal Configurator today!

***Same day service for Next Day Air orders entered before 5:00PM**

Some exclusions may apply

SEAL KIT IDENTIFICATION CODE CONVERSION CHART

<u>WIPERS</u>	<u>ROD SEALS</u>	<u>PISTON SEALS</u>	<u>ROD X BORE SIZE</u>
I = Insert	O = O-Ring	1 = None	
P = Press In	OB = O-Ring & B/U	2 = O-Ring	
N = No Wiper	U = U-Seal	3 = O-Ring & B/U	
	UB = U-Seal & Buffer	4 = 1 U-Seal	
	BB = Tandem Buffers	5 = 2 U-Seals	
	V = Vee Set	6 = 1 Piston Cup	
	N = None	7 = 2 Piston Cups	
	TR = T Seal	8 = "SA" Vee Set	
	SP = Special	9 = "DA" Vee Set	
	UV = U-Seals & Vee Sets	10 = Piston Seal	
		11 = T Seal	
		12 = Cast Iron Piston Ring	
		13 = Special	
		14 = 4 Piece Capped T-Seal	
		15 = 5 Piece Piston Seal	

EXAMPLE

<u>P</u>	-	<u>U</u>	-	<u>5</u>		<u>2</u>	X	<u>4</u>
Wiper		Rod Seal		Piston Seal		Rod		Bore

NOTE:

These codes were developed as an aid for kit identification. Verification can be made by calling our sales department and comparing the parts to be replaced with those offered in our kit.

Custom Seals

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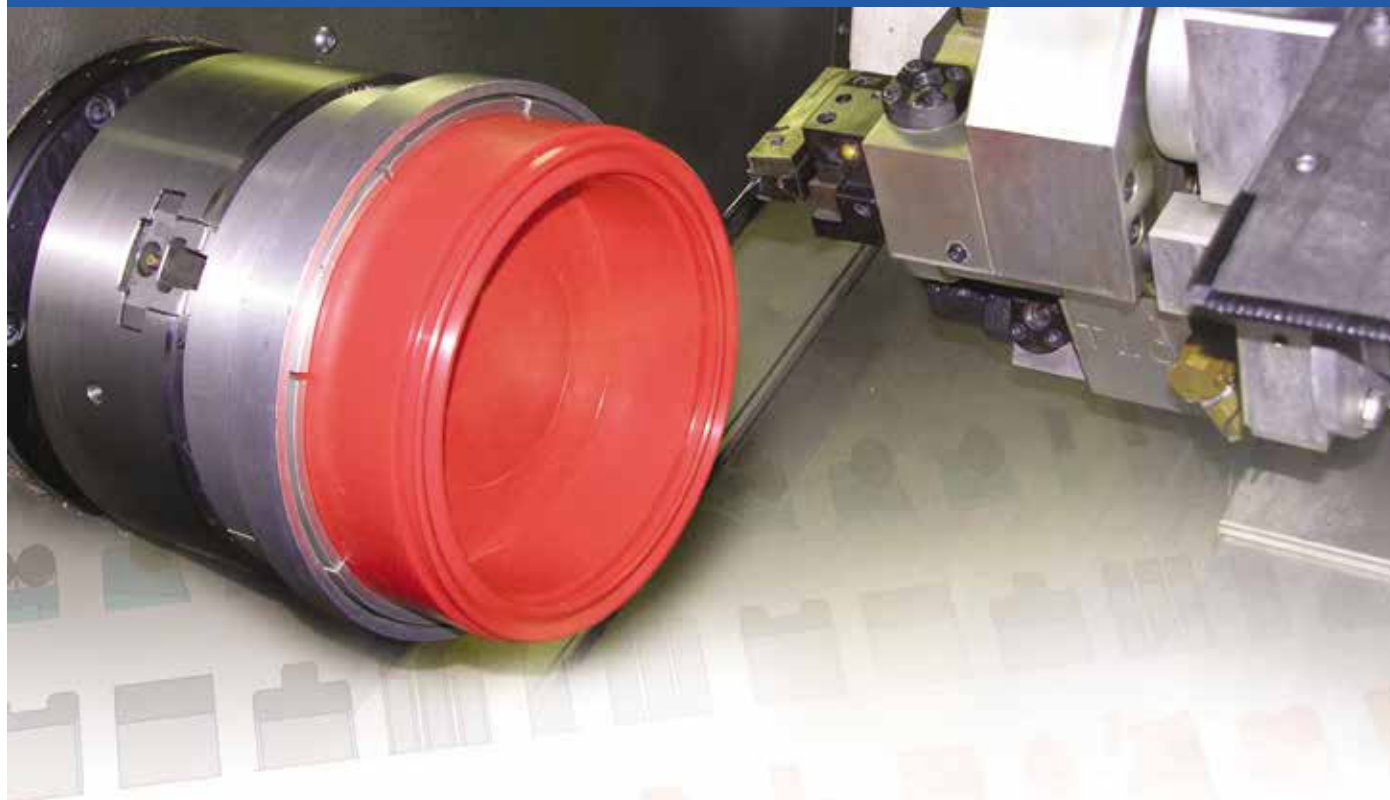
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Scan for:

Custom Seal Configurator
on our website

SEALS ON DEMAND



Using advanced rapid-prototype technology, Hercules® Seals On Demand offers you a wide selection of custom, cost-effective sealing solutions. Our versatile programmable production machines are capable of crafting and producing a wide range of hydraulic and pneumatic seals to suit your specific needs of O-Rings, rod seals, piston seals, wipers, back-up rings, rotary seals, swivel seals and static seals. Choose from both imperial and metric sizes for almost any fluid power application, including agriculture, automotive, heavy construction, material handling, manufacturing, mining, logging, fluid handling and refuse.

Hercules® Seals On Demand technology gives you the ability to source custom manufactured products with a short turn-around time and with no mold costs. Hercules® Seals On Demand design software offers over 100 common industry profiles

and can produce countless custom designs. The advanced lathe technology results in exceptional sealing products with smooth corners and fillets, fine surface finishes and sharp lips. Hercules® Seals On Demand has a large inventory of high quality materials in a wide range of sizes from 1/2" to 24". Material choices including rubber and urethane to plastics of fluoropolymers (PTFE) and Acetal (POM). All in stock and ready for next day delivery!

The following technical information illustrates common housings for each seal profile. Included in each seal application is a chart detailing the recommended dimensions for typical housing sizes. Hercules Sealing Products offers design assistance for non-standard and custom application needs, which may exceed the size ranges in these recommended charts. To reach our technical department, please call 1.800.777.5617 and press 8.

PISTON SEALS

TWO PIECE SEAL



Application: Hydraulic double acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
10 - 15	D - 4.9	2.2
15.1 - 40	D - 7.5	3.2
40.1 - 80	D - 11	4.2
80.1 - 135	D - 15.5	6.3
135.1 - 300	D - 21	18.1
300.1 - 575	D - 24.5	8.1

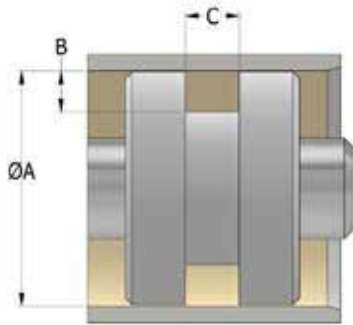
Standard recommended dimensions, in millimeters

TWO PIECE SEAL STEP CUT



A	B	C
38 - 40	D - 7.5	3.2
40.1 - 80	D - 11	4.2
80.1 - 135	D - 15.5	6.3
135.1 - 300	D - 21	8.1
300.1 - 394	D - 24.5	8.1

Standard recommended dimensions, in millimeters



PNEUMATIC U-SEAL

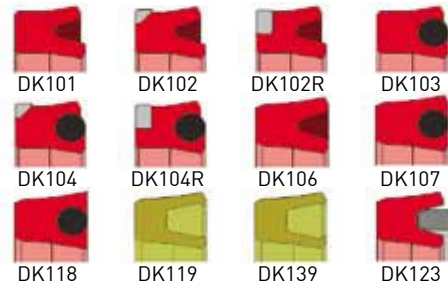


Pressure: 350 psi max
Application: Hydraulic and Pneumatic single acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
15 - 25	d - 8	6
25.1 - 50	d - 10	7
50.1 - 150	d - 12	8
75.1 - 150	d - 15	10
150.1 - 300	d - 20	12
300.1 - 450	d - 25	18
450.1 - 575	d - 30	20

Standard recommended dimensions, in millimeters

U-SEAL

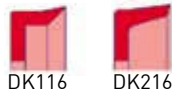


Application: Hydraulic single acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon

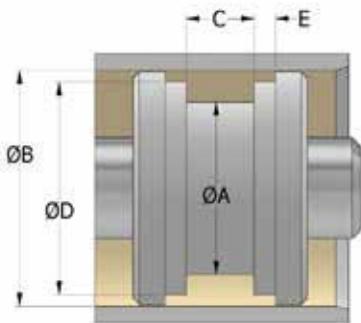
A	B	C
15 - 25	D - 8	6
25.1 - 50	D - 10	7
50.1 - 75	D - 12	8
75.1 - 150	D - 15	10
150.1 - 300	D - 20	12
300.1 - 450	D - 25	18
450.1 - 575	D - 30	20

Standard recommended dimensions, in millimeters

PISTON CUP



Application: Hydraulic single acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon



COMPACT SEAL



Application: Hydraulic double acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon

B	A	D	C	E
20 - 50	D - 10	D - 3	12.5	4
50.1 - 80	D - 15	D - 4	20	4
80.1 - 150	D - 20	D - 5	25	5.5
150.1 - 300	D - 25	D - 6	32	7
300.1 - 600	D - 30	D - 8	36	2.8

Standard recommended dimensions, in millimeters

ROD SEALS

U-SEALS



A	B	C
8 - 25	d + 8	6
25.1 - 50	d + 10	8
50.1 - 150	d + 15	10
150.1 - 300	d + 20	14
300.1 - 450	d + 25	17
450.1 - 575	d + 30	20

Standard recommended dimensions, in millimeters

Application: Hydraulic single acting rod seals

Material: Urethane, NBR, PTFE, Fluorocarbon

PNEUMATIC U-SEALS



Application: Hydraulic single acting rod seals

Material: Urethane, NBR, PTFE, Fluorocarbon

ONE & TWO PIECE SHAFT SEALS



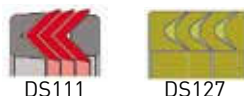
A	B	C
8 - 10	d + 4.9	2.2
10.1 - 39	d + 10.7	4.2
39.1 - 199	d + 15.1	6.3
199.1 - 259	d + 20.5	8.1
259.1 - 575	d + 24	8.1

Standard recommended dimensions, in millimeters

Application: Hydraulic double acting rod seals

Material: Urethane, NBR, PTFE, Fluorocarbon

VEE PACKING



Application: Hydraulic single acting seals

Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
10 - 40	d + 10	16
40.1 - 75	d + 15	25
75.1 - 150	d + 20	32
150.1 - 200	d + 25	40
200.1 - 300	d + 30	50
300.1 - 575	d + 40	63

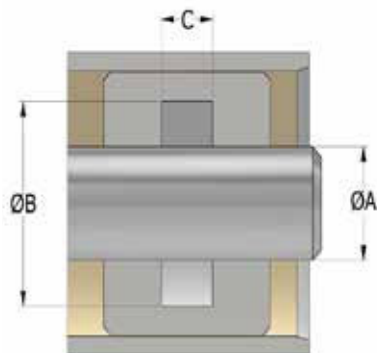
Standard recommended dimensions, in millimeters

HAT PACKING



Application: Hydraulic single acting seals

Material: Urethane, NBR, PTFE, Fluorocarbon



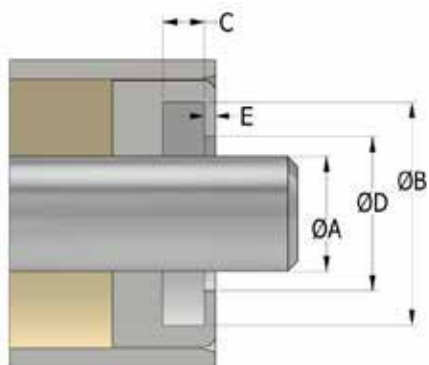
SINGLE ACTING WIPERS



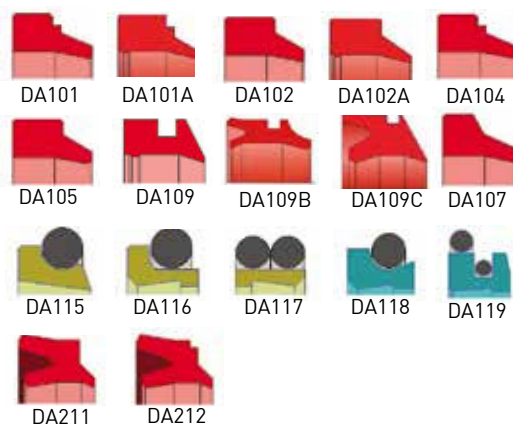
Application: Single acting wiper
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
8 - 50	d + 4	5
50.1 - 100	d + 5	5
100.1 - 575	d + 7.5	7

Standard recommended dimensions, in millimeters



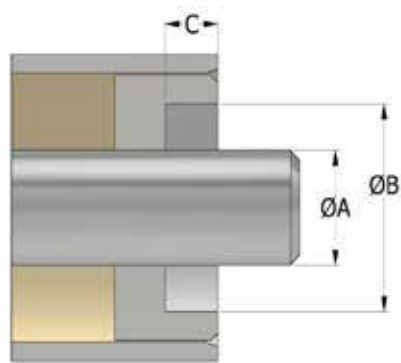
SINGLE & DOUBLE ACTING WIPERS



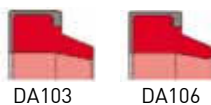
A	B	C
8 - 50	d + 4	5
50.1 - 100	d + 5	5
100.1 - 575	d + 7.5	7

Standard recommended dimensions, in millimeters

Application: W102, W105, W115 - Single acting wiper
 W111, W211, W116, W117 - Single and double acting wiper
Material: Urethane, NBR, PTFE, Fluorocarbon



SINGLE ACTING WIPERS



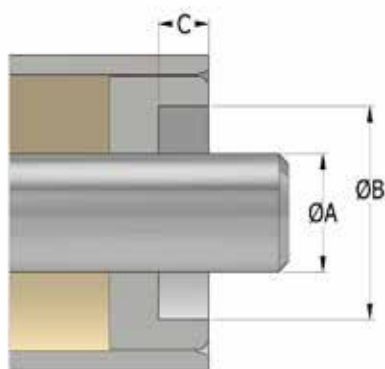
Application: Single acting wiper
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
8 - 10	d + 8	5
10.1 - 100	d + 9	7
100.1 - 200	d + 15	9
200.1 - 575	d + 20	12

Standard recommended dimensions, in millimeters

ROTARY SEALS

DOUBLE ACTING PISTON ROTARY SEALS



Application: Hydraulic double acting piston seals
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
10 - 20	D - 4.9	2.2
20.1 - 50	D - 7.5	3.2
50.1 - 150	D - 11	4.2
150.1 - 300	D - 15.5	6.3
300 - 600	D - 21	8.1

Standard recommended dimensions, in millimeters

DOUBLE ACTING ROD ROTARY SEALS

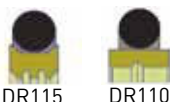


Application: Hydraulic double acting rod seals
Material: Urethane, NBR, PTFE, Fluorocarbon

A	B	C
8 - 10	d + 4.9	2.2
10.1 - 39	d + 10.7	4.2
39.1 - 199	d + 15.1	6.3
199.1 - 259	d + 20.5	8.1
259 - 575	d + 25	8.1

Standard recommended dimensions, in millimeters

DOUBLE ACTING ROD ROTARY SEALS



Application: Hydraulic double acting rod seals
Material: Urethane, PTFE, Urethane

A	B	C
8 - 20	d + 4.9	2.2
20.1 - 50	d + 7.5	3.2
50.1 - 150	d + 11	4.2
150.1 - 300	d + 15.5	6.3
300.1 - 575	d + 21	8.1

Standard recommended dimensions, in millimeters

SINGLE ACTING SHAFT SEALS



Application: Hydraulic single acting shaft seals
Material: NBR, Fluorocarbon

A	B	C
10 - 60	d + 12	7
60.1 - 140	d + 15	8
14.1 - 300	d + 20	10
300.1 - 450	d + 30	12
450.1 - 575	D + 40	20

Standard recommended dimensions, in millimeters

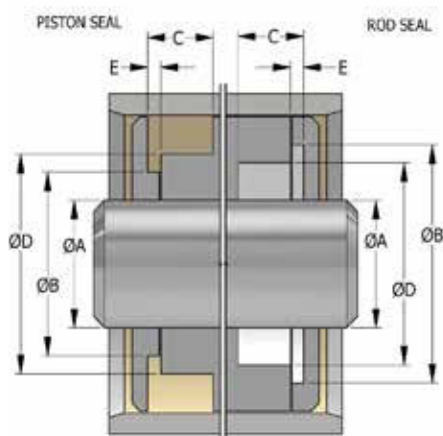
SPRING ACTIVATED SHAFT SEALS



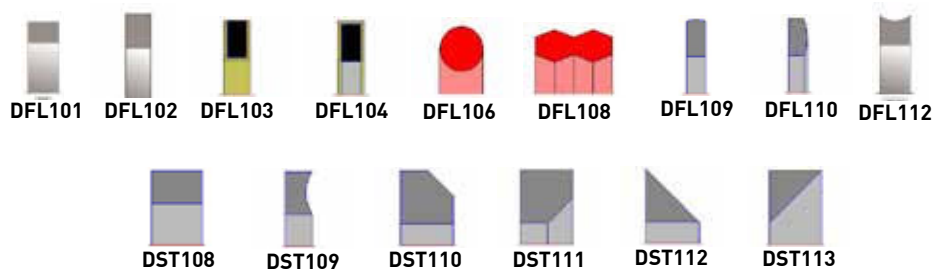
Application: Hydraulic single acting shaft seals
Material: PTFE

A	B	D	C	E
8 - 20	d + 9	d + 5	36	0.85
50.1 - 80	d + 12.5	d + 7	4.8	1.35
80.1 - 150	d + 17.5	d + 10.5	7.1	1.8
150.1 - 300	d + 22	d + 14	9.5	2.8

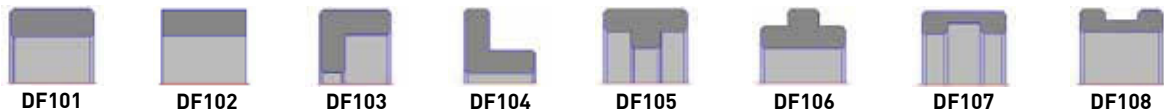
Standard recommended dimensions, in millimeters



GASKET / BACK-UP RINGS



GUIDE-RINGS



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Please provide the following information:

- Groove dimensions
- Seal profile
- Seal material

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The Hercules® Seals On Demand inventory includes sizes from 1/4" to 24", 15 material choices; Hundreds of combinations, all in-stock and ready for next day delivery!

MATERIAL INDEX

Material Specifications:

- 96A Hydrolysis Resistant Polyurethane (HPU) (Red)
- 94A Cast Hydrolysis Resistant Polyurethane (C-HPU)(Red)
- AU30000 Urethane (30K)(Blue)
- 55D Hytrel (Orange)
- 85A NBR (Black)
- 85A HNBR (Green)
- 85A Fluorocarbon / Viton (FPM)(Brown)
- 85A EPDM (Black)

- Virgin PTFE (White)
- 15% Glass/5% Moly PTFE (Grey)
- 40% Bronze/PTFE (Bronze)
- 85D Polyacetal (POM) (White)
- 77D Polyamide (PA) (Black)
- 61D UHMW - PE (White)
- 86D Virgin PEEK (Cream)
- 86D Synthetic Fabric Thermoset Resin (SFTR) (Turquoise)

MATERIAL			HPU	C-HPU Cast	Freudenberg® AU 30000 Urethane	Hytrel	NBR	HNBR	FPM	EPDM	PTFE Virgin
Property	Specification	Unit									
Color			Red	Red	Blue	Orange	Black	Green	Brown	Black	White
Min Service Temp		°F	-5	-35	-40	-40	-35	-30	-30	-50	-325
Max Service Temp		°F	240	230	250	248	230	300	425	300	500
Max Temp - Water/Steam		°F	195	195				245	300	300	
Max Temp - Hot Air (short)		°F						355	570	355	
Hardness	ASTM D 2240	Shore A	96±2	94±1	94+3/-4		85±5	85±5	85±5	85±5	
Hardness	ASTM D 2240	Shore D	47±3	44±3	45±5	55					50-65
Modulus 100%	ASTM D 412	psi	2900	2175	2030◀	2250	1740	1450	1160		
Modulus 300%	ASTM D 412	psi	5800	4160	3190◀						
Tensile Strength	ASTM D 412	psi	6200	7250	8992◀	6100▲	2300	2900	1450	1740	6000▲
Elongation at break	ASTM D 412	%	300	350	550◀	520▲	150	200	200	80	300▲
Tear Strength	ASTM D 624 die C	lbf/inch	570	560	713		140	170	34	50	
Abrasion	ASTM D 1630	mm3	17	20			130	130	200	140	
Specific Gravity	ASTM D 792	g/cm3	1.19	1.19	1.17	1.19	1.32	1.32	2.51	1.23	2.2
Rebound Elasticity	DIN 53512	%					20		7	37	
Modulus of Elasticity	DIN 53457	N/mm2									
Compressive Strength	ASTM D 695	psi									3500
Compressive Modulus	ASTM D 695	psi									70000
Compression Set											
70°C/24hr @ 20% def	ASTM D 395 Meth B	%	25	27		40%	6	14	8	7	
100°C/24hr @ 20% def	ASTM D 395 Meth B	%	30	33	31		5	22	10		

* Lead time required ▼Spec - DIN 53505
 ▲Spec - ASTM D 638 ◀Spec - DIN 53504
 ▶Spec - DIN 53455 ●Spec - DIN 53479

MATERIAL INDEX

Material Specifications:

- 96A Hydrolysis Resistant Polyurethane (HPU) (Red)
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- 77D Polyamide (PA) (Black)
- 61D UHMW - PE (White)
- 86D Virgin PEEK (Cream)
- 86D Synthetic Fabric Thermoset Resin (SFTR) (Turquoise)

MATERIAL			PTFE 15% Glass 5% Moly	PTFE 40% Bronze	POM	PA Nylon	UHMW-PE*	PEEK*	SFTR
Property	Specification	Unit							
Color			Grey	Brown	White	Black	Natural	Cream	Turquoise
Min Service Temp		°F	-325	-325	-50	-40	-325		-40
Max Service Temp		°F	500	500	210	210	175	500	309
Max Temp - Water/Steam		°F							
Max Temp - Hot Air (short)		°F							
Hardness	ASTM D 2240	Shore A							
Hardness	ASTM D 2240	Shore D	58-63	61-67	85±3	77	61	86	86
Modulus 100%	ASTM D 412	psi							
Modulus 300%	ASTM D 412	psi							
Tensile Strength	ASTM D 412	psi	3000▲	3300▲	10100	9400◄	5800▲	14000◄	
Elongation at break	ASTM D 412	%	280▲	250▲	40	120◄	350▲	50◄	
Tear Strength	ASTM D 624 die C	lbf/inch							
Abrasion	ASTM D 1630	mm3							
Specific Gravity	ASTM D 792	g/cm3	2.2	3.13	1.41	1.15●	0.93●	1.32●	1.3
Rebound Elasticity	DIN 53512	%							
Modulus of Elasticity	DIN 53457	N/mm2			3000	1800	98000	3600	
Compressive Strength	ASTM D 695	psi	1055	1470	12800				54375
Compressive Modulus	ASTM D 695	psi	63000	66000					406105
Compression Set									
70°C/24hr @ 20% def	ASTM D 395 Meth B	%							
100°C/24hr @ 20% def	ASTM D 395 Meth B	%							

* Lead time required ▼Spec - DIN 53505
 ▲Spec - ASTM D 638 ◄Spec - DIN 53504
 ►Spec - DIN 53455 ●Spec - DIN 53479



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Custom Seal Configurator
on our website

Industrial Kits

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All manufacturer's names, part numbers and descriptions are used for reference purposes only. We do not imply that any part shown is the product of these manufacturers. We also do not imply that the list price shown is exactly that of the manufacturer.

Materials Used

Urethane (URE)

Formulated of copolymers of ether or ester based urethanes, this material is used in a wide application of seals, wipers, back-up rings, cushions, bumpers, and a myriad of other uses. Highly resistant to oil swell, ozone, oxidation and abrasion, it also has excellent cut resistance. Highly resilient, urethanes also have high tensile strength and elongation properties. Urethanes remain an excellent choice in hydraulic systems using petroleum based fluids. Most urethane seals remain flexible and efficient in temperatures ranging from -65° F to +200° F with some able to withstand intermittent temperatures up to +300° F.

Nitrile (NBR) (XNBR)

Two common nitrile copolymer blends are Buna-N (NBR) and Carboxylated Nitrile (XNBR). Possessing very good resistance to petroleum based hydraulic oils, Buna-N also works well with fuels such as diesel or gasoline. XNBR compounds feature improved abrasion resistance and tensile strength. Nitrile seals have a good resistance to compression set, but their flexibility suffers somewhat in the lower temperature range. Seals made from this material have a low resistance to ozone and must be stored carefully in most environments. Working temperatures are -40° to +240°F.

Polytetrafluoroethylene (PTFE)

Most PTFE seals, in order to retain their toughness and flexibility, are fortified with short glass fiber, bronze flashes, carbon, graphite, or a combination of these fillers. Because of a lack of resilience (memory) in PTFE, an energizer is most often employed to obtain the desired fit. Benefits are chemical inertness, high heat resistance, low temperature flexibility, low running friction, and non-adhesive characteristics. Temperatures to +500° F are obtainable but are often reduced by the filler or energizer employed.

Fluorocarbon (FC)

Fluorocarbon combines high temperature resistance with excellent chemical resistance. Excellent for use with alcohol and aromatic fuels and is highly resistant to ultraviolet light and ozone. This material is not recommended for use in low temperatures or in aircraft hydraulic fluids. Temperature range is -20° to +400° F.

Glossary of Terms

Bearing/Wear Rings

Soft metal or plastic rings placed in grooves on the piston or in the head to prevent contact between hard metal surfaces.

Durometer

A generic term referring to the instrument and the scale used to measure the relative hardness of various elastomers. The lower the durometer rating, the softer the material.

Dynamic Seal

A sealing device used between mating surfaces that have relative motion.

Elastomer

A rubber-like material having the capacity for large deformation and rapid, complete recovery from the deforming force.

Gland

A rod bushing containing sealing devices fitted into the rod end cap. A groove or open area machined into the head or piston that houses the sealing device.

Static Seal

A sealing device used between mating surfaces that have no relative motion.

Wiper/Scraper

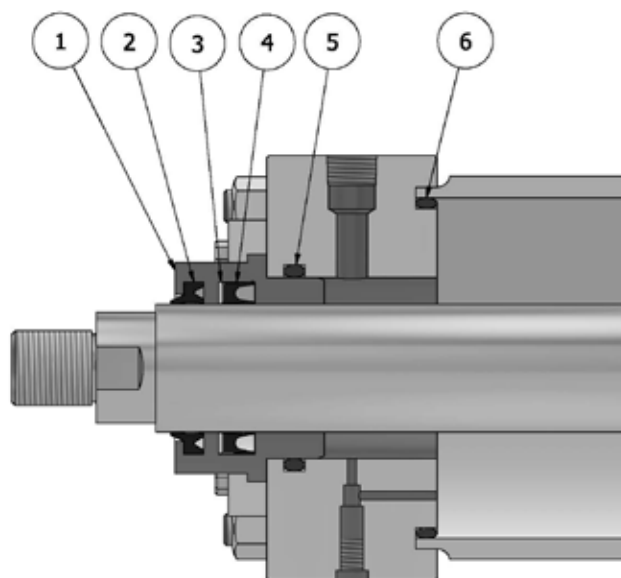
A device placed in the head of a cylinder for the purpose of excluding foreign matter from the inside of the cylinder.

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Series A

Components

	Components
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up



Rod Gland Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
5/8	ATL-4A06R000S	\$137.44
1	ATL-4A10R000S	161.74
1-3/8	ATL-4A13R000S	193.75
1-3/4	ATL-4A17R000S	228.41
2	ATL-4A20R000S	267.95
2-1/2	ATL-4A25R000S	304.80
3	ATL-4A30R000S	376.45

Rod Gland Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	ATL-4A06R000V	\$182.50
1	ATL-4A10R000V	214.47
1-3/8	ATL-4A13R000V	221.34
1-3/4	ATL-4A17R000V	263.27
2	ATL-4A20R000V	308.11
2-1/2	ATL-4A25R000V	366.66
3	ATL-4A30R000V	443.93

Rod Gland (1) Bronze

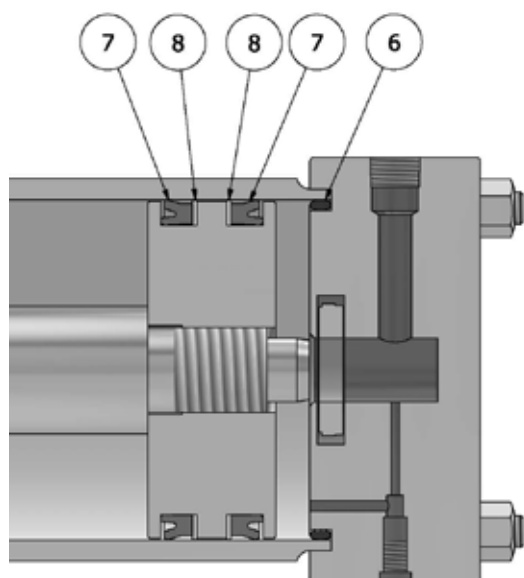
Rod Dia	Sales Part No	List Price
5/8	ATL-RGAL-06	\$120.55
1	ATL-RGAL-10	135.39
1-3/8	ATL-RGAL-13	158.72
1-3/4	ATL-RGAL-17	185.34
2	ATL-RGAL-20	224.83
2-1/2	ATL-RGAL-25	253.84
3	ATL-RGAL-30	315.90

Rod Seal Kits (2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
5/8	ATL-4A06S000S	\$15.66
3/4	ATL-4A07S000S	21.11
1	ATL-4A10S000S	15.69
1-3/8	ATL-4A13S000S	16.08
1-3/4	ATL-4A17S000S	20.26
2	ATL-4A20S000S	22.63
2-1/2	ATL-4A25S000S	30.81
3	ATL-4A30S000S	44.00
3-1/2	ATL-4A35S000S	48.13
4	ATL-4A40S000S	51.66
4-1/2	ATL-4A45S000S	63.09
5	ATL-4A50S000S	73.56

Rod Seal Kits (2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	ATL-4A06S000V	\$43.50
3/4	ATL-4A07S000V	62.43
1	ATL-4A10S000V	44.86
1-3/8	ATL-4A13S000V	47.18
1-3/4	ATL-4A17S000V	52.88
2	ATL-4A20S000V	55.07
2-1/2	ATL-4A25S000V	69.62
3	ATL-4A30S000V	81.77
3-1/2	ATL-4A35S000V	101.68
4	ATL-4A40S000V	155.63
4-1/2	ATL-4A45S000V	175.49
5	ATL-4A50S000V	236.02



Piston Seal Kits (6,7,8) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	ATL-4B00S015S	\$12.62
2	ATL-4B00S020S	15.04
2-1/2	ATL-4B00S025S	17.24
3-1/4	ATL-4B00S032S	20.92
4	ATL-4B00S040S	26.64
5	ATL-4B00S050S	32.25
6	ATL-4B00S060S	41.91
7	ATL-4B00S070S	116.89
8	ATL-4B00S080S	132.59
10	ATL-4B00S100S	188.76
12	ATL-4B00S120S	255.44
14	ATL-4B00S140S	395.50

End Seal Kits (6) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	ATL-4E00S015S	\$7.32
2	ATL-4E00S020S	7.78
2-1/2	ATL-4E00S025S	8.68
3-1/4	ATL-4E00S032S	8.79
4	ATL-4E00S040S	9.23
5	ATL-4E00S050S	10.78
6	ATL-4E00S060S	13.35
7	ATL-4E00S070S	13.54
8	ATL-4E00S080S	16.47
10	ATL-4E00S100S	19.11
12	ATL-4E00S120S	22.04
14	ATL-4E00S140S	111.49

Piston Seal Kits (6,7,8) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	ATL-4B00S015V	\$57.99
2	ATL-4B00S020V	66.30
2-1/2	ATL-4B00S025V	91.83
3-1/4	ATL-4B00S032V	98.62
4	ATL-4B00S040V	116.96
5	ATL-4B00S050V	145.05
6	ATL-4B00S060V	199.48
7	ATL-4B00S070V	360.66
8	ATL-4B00S080V	434.83
10	ATL-4B00S100V	602.60
12	ATL-4B00S120V	935.31
14	ATL-4B00S140V	1378.81

End Seal Kits (6) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	ATL-4E00S015V	\$10.52
2	ATL-4E00S020V	17.88
2-1/2	ATL-4E00S025V	23.44
3-1/4	ATL-4E00S032V	27.37
4	ATL-4E00S040V	35.24
5	ATL-4E00S050V	49.60
6	ATL-4E00S060V	52.30
7	ATL-4E00S070V	73.93
8	ATL-4E00S080V	74.15
10	ATL-4E00S100V	82.58
12	ATL-4E00S120V	99.58
14	ATL-4E00S140V	199.95

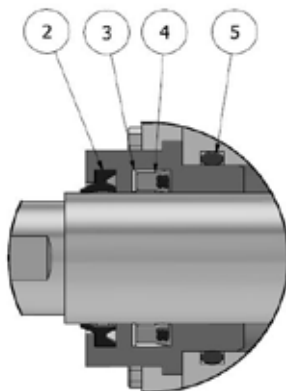
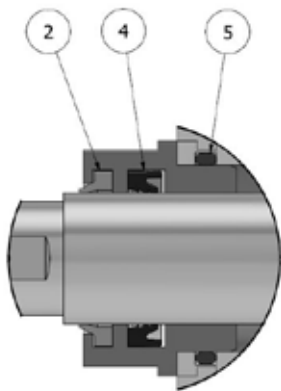
Series H

Components

1	Rod Gland	6	End Seal
2	Rod Wiper	7	Piston Seal
3	Rod Seal Back-Up	8	Piston Seal Back-Up
4	Rod Seal	9	Piston Wear Ring
5	Head Seal	10	End Seal Back-Up

Mfg Prior to April 2005

Fluorocarbon Rod Seal Kits



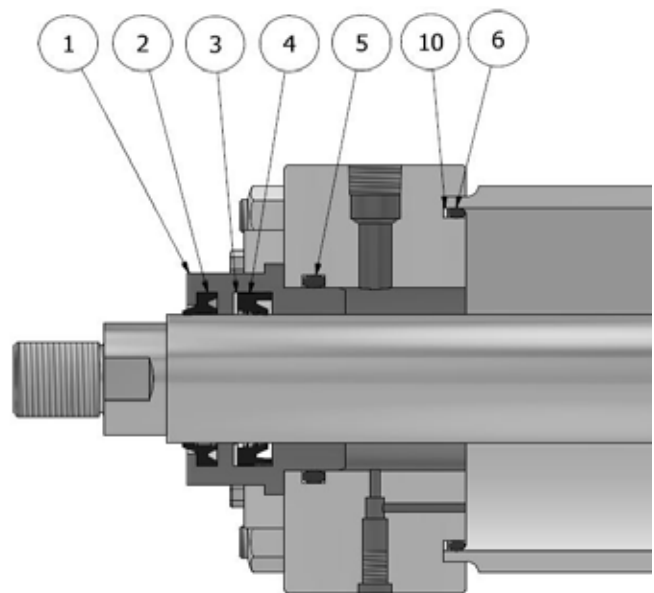
Rod Seal Kits (2,4,5) Nitrile

Mfg prior to April 2005 use the AN style URE wiper
Mfg April 2005 & after use the H style XNBR wiper

Rod Dia	Sales Part No	List Price
5/8	ATL-PH06SH000	\$14.18
1	ATL-PH10SH000	15.31
1-3/8	ATL-PH13SH000	20.57
1-3/4	ATL-PH17SH000	20.78
2	ATL-PH20SH000	28.42
2-1/2	ATL-PH25SH000	35.42
3	ATL-PH30SH000	37.59
3-1/2	ATL-PH35SH000	72.73

Rod Seal Kits (2,3,4,5) Mfg April 2005 & after Fluorocarbon w/ loaded U-Seal

Rod Dia	Sales Part No	List Price
5/8	ATL-VH06SH000	\$43.31
1	ATL-VH10SH000	61.12
1-3/8	ATL-VH13SH000	63.75
1-3/4	ATL-VH17SH000	75.59
2	ATL-VH20SH000	86.56
2-1/2	ATL-VH25SH000	139.91
3	ATL-VH30SH000	161.21
3-1/2	ATL-VH35SH000	224.12

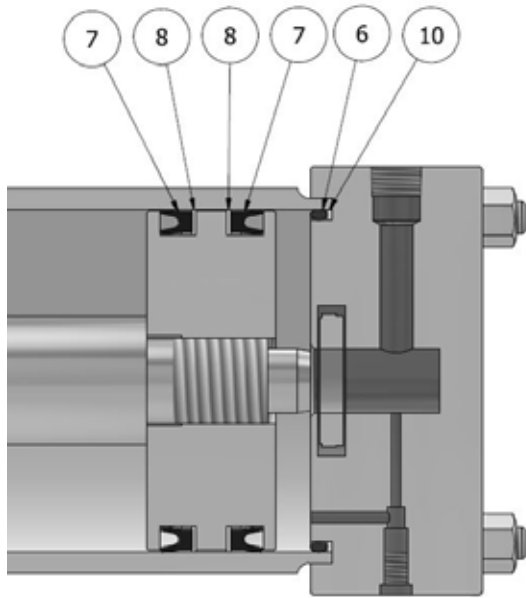


Piston Seal Kits (6,7,9,10) Mfg prior to April 2005 Nitrile

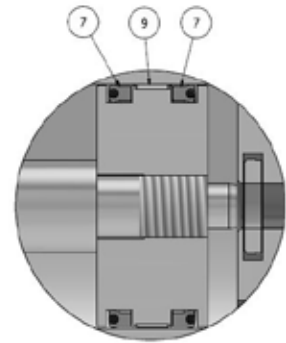
Bore Dia	Sales Part No	List Price
1-1/2	ATL-1B00S015S	\$26.27
2	ATL-1B00S020S	30.60
2-1/2	ATL-1B00S025S	32.67
3-1/4	ATL-1B00S032S	50.31
4	ATL-1B00S040S	64.53
5	ATL-1B00S050S	135.62
6	ATL-1B00S060S	232.36
7	ATL-1B00S070S	303.63
8	ATL-1B00S080S	322.25
10	ATL-1B00S100S	421.28
12	ATL-1B00S120S	535.33

Piston Seal Kits (6,7,9,10) Mfg prior to April 2005 Fluorocarbon

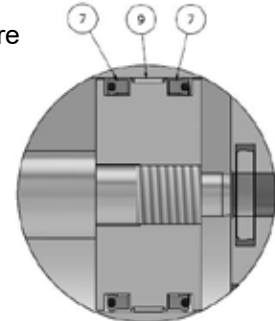
Bore Dia	Sales Part No	List Price
1-1/2	ATL-1B00S015V	\$79.58
2	ATL-1B00S020V	88.56
2-1/2	ATL-1B00S025V	94.01
3-1/4	ATL-1B00S032V	134.30
4	ATL-1B00S040V	193.53
5	ATL-1B00S050V	291.39
6	ATL-1B00S060V	395.53
7	ATL-1B00S070V	607.45
8	ATL-1B00S080V	637.80
10	ATL-1B00S100V	845.25
12	ATL-1B00S120V	1037.96



Mfg Prior to April 2005



Mfg April 2005 & after 7" & 8" Bore



Piston Seal Kits (6,7,8) Mfg April 2005 & after, Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-PH00LH015	\$20.28
2	ATL-PH00LH020	21.43
2-1/2	ATL-PH00LH025	25.47
3-1/4	ATL-PH00LH032	46.60
4	ATL-PH00LH040	55.42
5	ATL-PH00LH050	81.43
6	ATL-PH00LH060	121.87

Piston Seal Kits (6,7,9,10) Mfg April 2005 & after 7" & 8" Bores, Nitrile		
Bore Dia	Sales Part No	List Price
7	ATL-PH00KH070	\$490.86
8	ATL-PH00KH080	596.62

Piston Seal Kits (6,7,8) Mfg April 2005 & after, Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-VH00LH015	\$71.30
2	ATL-VH00LH020	102.75
2-1/2	ATL-VH00LH025	118.32
3-1/4	ATL-VH00LH032	136.66
4	ATL-VH00LH040	312.49
5	ATL-VH00LH050	469.47
6	ATL-VH00LH060	552.00

Piston Seal Kits (6,7,9,10) Mfg April 2005 & after 7" & 8" Bores, Fluorocarbon		
Bore Dia	Sales Part No	List Price
7	ATL-PH00KH070	\$496.52
8	ATL-PH00KH080	612.63

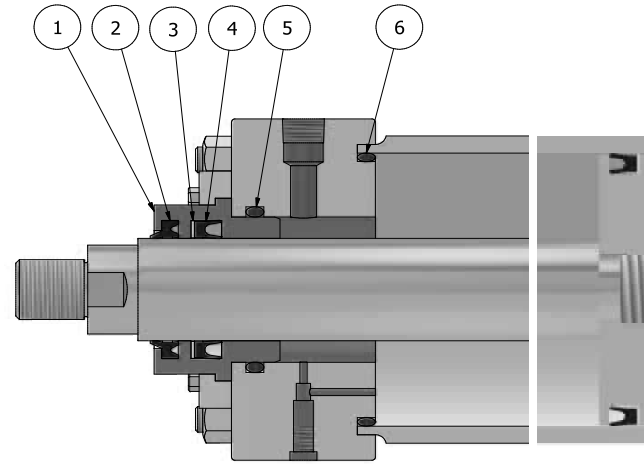
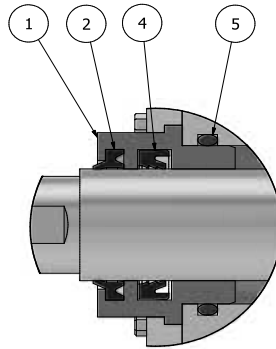
End Seal Kits (6,10) Mfr prior to April 2005, Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-1E00S015S	\$6.40
2	ATL-1E00S020S	8.21
2-1/2	ATL-1E00S025S	10.99
3-1/4	ATL-1E00S032S	20.53
4	ATL-1E00S040S	24.83
5	ATL-1E00S050S	29.76
6	ATL-1E00S060S	46.70
7	ATL-1E00S070S	98.95
8	ATL-1E00S080S	105.24
10	ATL-1E00S100S	191.37
12	ATL-1E00S120S	217.50

End Seal Kits (6,10) Mfr prior to April 2005 Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-1E00S015V	\$9.51
2	ATL-1E00S020V	11.32
2-1/2	ATL-1E00S025V	13.59
3-1/4	ATL-1E00S032V	26.84
4	ATL-1E00S040V	29.04
5	ATL-1E00S050V	45.18
6	ATL-1E00S060V	48.79
7	ATL-1E00S070V	115.05
8	ATL-1E00S080V	134.26
10	ATL-1E00S100V	215.53
12	ATL-1E00S120V	248.11

Series L

Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

Urethane Rod Kits



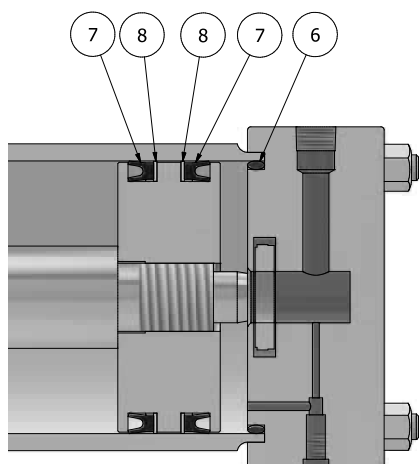
Rod Gland Kits (1,2,3,4,5) Nitrile		
Rod Dia	Sales Part No	List Price
5/8	ATL-4A06R000S	\$137.44
1	ATL-4A10R000S	161.74
1-3/8	ATL-4A13R000S	193.75
1-3/4	ATL-4A17R000S	228.41
2	ATL-4A20R000S	267.95
2-1/2	ATL-4A25R000S	304.80
3	ATL-4A30R000S	376.45

Rod Glands (1) Bronze		
Rod Dia	Sales Part No	List Price
5/8	ATL-RGAL-06	\$120.55
1	ATL-RGAL-10	135.39
1-3/8	ATL-RGAL-13	158.72
1-3/4	ATL-RGAL-17	185.34
2	ATL-RGAL-20	224.83
2-1/2	ATL-RGAL-25	253.84
3	ATL-RGAL-30	315.90

Rod Gland Kits (1,2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	ATL-4A06R000V	\$182.50
1	ATL-4A10R000V	214.47
1-3/8	ATL-4A13R000V	221.34
1-3/4	ATL-4A17R000V	263.27
2	ATL-4A20R000V	308.11
2-1/2	ATL-4A25R000V	366.66
3	ATL-4A30R000V	443.93

Rod Seal Kits (2,3,4,5) Nitrile		
Rod Dia	Sales Part No	List Price
5/8	ATL-4A06S000S	\$15.66
3/4	ATL-4A07S000S	21.11
1	ATL-4A10S000S	15.69
1-3/8	ATL-4A13S000S	16.08
1-3/4	ATL-4A17S000S	20.26
2	ATL-4A20S000S	22.63
2-1/2	ATL-4A25S000S	30.81
3	ATL-4A30S000S	44.00
3-1/2	ATL-4A35S000S	48.13
4	ATL-4A40S000S	51.66
4-1/2	ATL-4A45S000S	63.09
5	ATL-4A50S000S	73.56

Rod Gland Kits (1,2,4,5) Urethane		
Rod Dia	Sales Part No	List Price
5/8	ATL-EA06R000S	\$143.17
1	ATL-EA10R000S	160.11
1-3/8	ATL-EA13R000S	184.03
1-3/4	ATL-EA17R000S	217.31
2	ATL-EA20R000S	266.65
2-1/2	ATL-EA25R000S	299.63
3	ATL-EA30R000S	399.05



Rod Seal Kits (2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	ATL-4A06S000V	\$43.50
3/4	ATL-4A07S000V	62.43
1	ATL-4A10S000V	44.86
1-3/8	ATL-4A13S000V	47.18
1-3/4	ATL-4A17S000V	52.88
2	ATL-4A20S000V	55.07
2-1/2	ATL-4A25S000V	69.62
3	ATL-4A30S000V	81.77
3-1/2	ATL-4A35S000V	101.68
4	ATL-4A40S000V	155.63
4-1/2	ATL-4A45S000V	175.49
5	ATL-4A50S000V	236.02

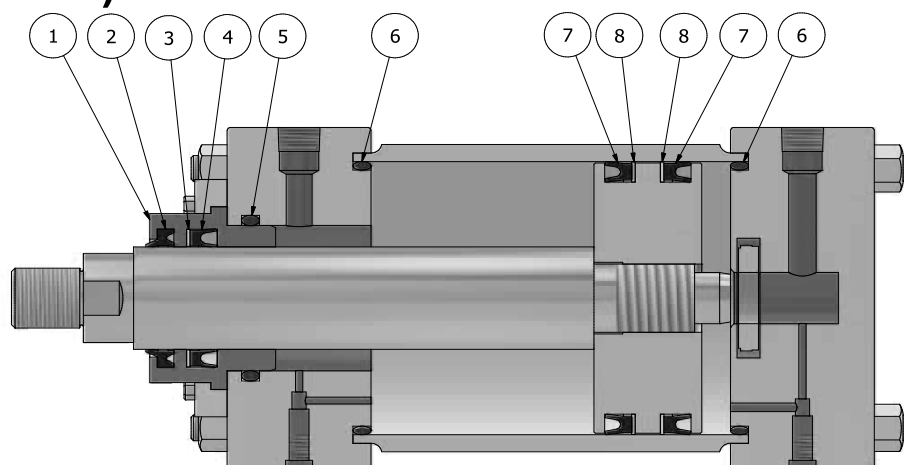
Piston Seal Kits (6,7,8) Nitrile		
Bore Dia	Sales Part No	List Price
7	ATL-4B00S070S	\$116.89
10	ATL-4B00S100S	188.76
12	ATL-4B00S120S	255.44
14	ATL-4B00S140S	395.50
1-1/2	ATL-EB00S015S	12.62
2	ATL-EB00S020S	15.04
2-1/2	ATL-EB00S025S	17.24
3-1/4	ATL-EB00S032S	20.92
4	ATL-EB00S040S	26.64
5	ATL-EB00S050S	32.25
6	ATL-EB00S060S	41.91
8	ATL-EB00S080S	132.59

Rod Seal Kits (2,4,5) Urethane		
Rod Dia	Sales Part No	List Price
5/8	ATL-EA06S000S	\$13.20
1	ATL-EA10S000S	14.21
1-3/8	ATL-EA13S000S	15.15
1-3/4	ATL-EA17S000S	17.73
2	ATL-EA20S000S	22.86
2-1/2	ATL-EA25S000S	26.12
3	ATL-EA30S000S	52.95
3-1/2	ATL-EA35S000S	76.67
4	ATL-EA40S000S	85.44
4-1/2	ATL-EA45S000S	95.01
5	ATL-EA50S000S	103.07

Piston Seal Kits (6,7,8) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-4B00S015V	\$57.99
2	ATL-4B00S020V	66.30
2-1/2	ATL-4B00S025V	91.83
3-1/4	ATL-4B00S032V	98.62
4	ATL-4B00S040V	116.96
5	ATL-4B00S050V	145.05
6	ATL-4B00S060V	199.48
7	ATL-4B00S070V	360.66
8	ATL-4B00S080V	434.83
10	ATL-4B00S100V	602.60
12	ATL-4B00S120V	935.31
14	ATL-4B00S140V	1378.81

Series L (Continued)

Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

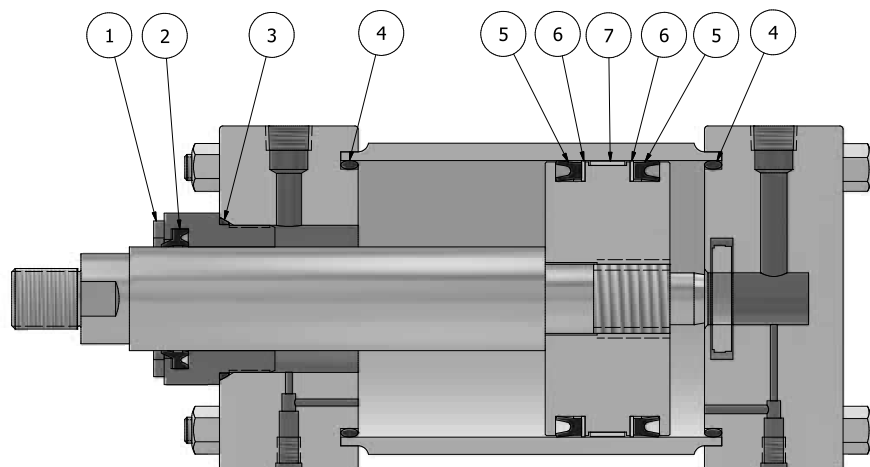


End Seal Kits (6) Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-4E00S015S	\$7.32
2	ATL-4E00S020S	7.78
2-1/2	ATL-4E00S025S	8.68
3-1/4	ATL-4E00S032S	8.79
4	ATL-4E00S040S	9.23
5	ATL-4E00S050S	10.78
6	ATL-4E00S060S	13.35
7	ATL-4E00S070S	13.54
8	ATL-4E00S080S	16.47
10	ATL-4E00S100S	19.11
12	ATL-4E00S120S	22.04
14	ATL-4E00S140S	111.49

End Seal Kits (6) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-4E00S015V	\$10.52
2	ATL-4E00S020V	17.88
2-1/2	ATL-4E00S025V	23.44
3-1/4	ATL-4E00S032V	27.37
4	ATL-4E00S040V	35.24
5	ATL-4E00S050V	49.60
6	ATL-4E00S060V	52.30
7	ATL-4E00S070V	73.93
8	ATL-4E00S080V	74.15
10	ATL-4E00S100V	82.58
12	ATL-4E00S120V	99.58
14	ATL-4E00S140V	199.95

Series 2LA

Components	
1	Rod Gland
2	Rod Wiper
3	Head Seal
4	End Seal
5	Piston Seal
6	Piston Seal Back-Up
7	Piston Wear Ring



Rod Gland Kits (1,2,3) Nitrile		
Rod Dia	Sales Part No	List Price
1/2	ATL-RG02MA0051	\$63.09
5/8	ATL-RG02MA0061	41.69
1	ATL-RG02MA0101	47.75
1-3/8	ATL-RG02MA0131	71.31
1-3/4	ATL-RG02MA0171	145.15

Rod Seal Kits (2,3) Fluorocarbon		
Rod Dia	Sales Part No	List Price
1/2	ATL-RK02MA0055	\$30.44
5/8	ATL-RK02MA0065	31.27
1	ATL-RK02MA0105	32.29
1-3/8	ATL-RK02MA0135	40.43
1-3/4	ATL-RK02MA0175	50.85

Rod Gland Kits (1,2,3) Fluorocarbon		
Rod Dia	Sales Part No	List Price
1/2	ATL-RG02MA0055	\$67.22
5/8	ATL-RG02MA0065	66.56
1	ATL-RG02MA0105	73.76
1-3/8	ATL-RG02MA0135	106.62
1-3/4	ATL-RG02MA0175	162.81

Piston Seal Kits (4,5,6,7) Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-PK1502MA01	\$37.96
2	ATL-PK2002MA01	38.47
2-1/2	ATL-PK2502MA01	41.25
3-1/4	ATL-PK3202MA01	49.60
4	ATL-PK4002MA01	60.81
5	ATL-PK5002MA01	78.67
6	ATL-PK6002MA01	105.20
8	ATL-PK8002MA01	185.71

Rod Glands (1) Bronze		
Rod Dia	Sales Part No	List Price
1/2	ATL-RG02MA0051	\$63.09
5/8	ATL-RG02MA0061	41.69
1	ATL-RG02MA0101	47.75
1-3/8	ATL-RG02MA0131	71.31
1-3/4	ATL-RG02MA0171	145.15

Piston Seal Kits (4,5,6,7) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	ATL-PK1502MA05	\$73.95
2	ATL-PK2002MA05	79.20
2-1/2	ATL-PK2502MA05	105.13
3-1/4	ATL-PK3202MA05	129.95
4	ATL-PK4002MA05	147.22
5	ATL-PK5002MA05	222.77
6	ATL-PK6002MA05	315.53
8	ATL-PK8002MA05	527.61

Rod Seal Kits (2,3) Nitrile		
Rod Dia	Sales Part No	List Price
1/2	ATL-RK02MA0051	\$20.36
5/8	ATL-RK02MA0061	20.99
1	ATL-RK02MA0101	21.53
1-3/8	ATL-RK02MA0131	23.04
1-3/4	ATL-RK02MA0171	24.61

ATLAS

ATLAS

Kit Number	Code	Rod Size	Bore Size	List Price	Kit Number	Code	Rod Size	Bore Size	List Price
ATL-1B00S015S	N-N-5		1-1/2	\$26.27	ATL-4A10R000S	I-U-1	1		\$161.74
ATL-1B00S015V	N-N-5		1-1/2	79.58	ATL-4A10R000V	I-U-1	1		214.47
ATL-1B00S020S	N-N-5		2	30.60	ATL-4A10S000S	I-U-1	1		15.69
ATL-1B00S020V	N-N-5		2	88.56	ATL-4A10S000V	I-U-1	1		44.86
ATL-1B00S025S	N-N-5		2-1/2	32.67	ATL-4A13R000S	I-U-1	1-3/8		193.75
ATL-1B00S025V	N-N-5		2-1/2	94.01	ATL-4A13R000V	I-U-1	1-3/8		221.34
ATL-1B00S032S	N-N-5		3-1/4	50.31	ATL-4A13S000S	I-U-1	1-3/8		16.08
ATL-1B00S032V	N-N-5		3-1/4	134.30	ATL-4A13S000V	I-U-1	1-3/8		47.18
ATL-1B00S040S	N-N-5		4	64.53	ATL-4A17R000S	I-U-1	1-3/4		228.41
ATL-1B00S040V	N-N-5		4	193.53	ATL-4A17R000V	I-U-1	1-3/4		263.27
ATL-1B00S050S	N-N-5		5	135.62	ATL-4A17S000S	I-U-1	1-3/4		20.26
ATL-1B00S050V	N-N-5		5	291.39	ATL-4A17S000V	I-U-1	1-3/4		52.88
ATL-1B00S060S	N-N-5		6	232.36	ATL-4A20R000S	I-U-1	2		267.95
ATL-1B00S060V	N-N-5		6	395.53	ATL-4A20R000V	I-U-1	2		308.11
ATL-1B00S070S	N-N-5		7	303.63	ATL-4A20S000S	I-U-1	2		22.63
ATL-1B00S070V	N-N-5		7	607.45	ATL-4A20S000V	I-U-1	2		55.07
ATL-1B00S080S	N-N-5		8	322.25	ATL-4A25R000S	I-U-1	2-1/2		304.80
ATL-1B00S080V	N-N-5		8	637.80	ATL-4A25R000V	I-U-1	2-1/2		366.66
ATL-1B00S100S	N-N-5		10	421.28	ATL-4A25S000S	I-U-1	2-1/2		30.81
ATL-1B00S100V	N-N-5		10	845.25	ATL-4A25S000V	I-U-1	2-1/2		69.62
ATL-1B00S120S	N-N-5		12	535.33	ATL-4A30R000S	I-U-1	3		376.45
ATL-1B00S120V	N-N-5		12	1037.96	ATL-4A30R000V	I-U-1	3		443.93
ATL-1E00S015S	Head Seal Kit		1-1/2	6.40	ATL-4A30S000S	I-U-1	3		44.00
ATL-1E00S015V	Head Seal Kit		1-1/2	9.51	ATL-4A30S000V	I-U-1	3		81.77
ATL-1E00S020S	Head Seal Kit		2	8.21	ATL-4A35S000S	I-U-1	3-1/2		48.13
ATL-1E00S020V	Head Seal Kit		2	11.32	ATL-4A35S000V	I-U-1	3-1/2		101.68
ATL-1E00S025S	Head Seal Kit		2-1/2	10.99	ATL-4A40S000S	I-U-1	4		51.66
ATL-1E00S025V	Head Seal Kit		2-1/2	13.59	ATL-4A40S000V	I-U-1	4		155.63
ATL-1E00S032S	Head Seal Kit		3-1/4	20.53	ATL-4A45S000S	I-U-1	4-1/2		63.09
ATL-1E00S032V	Head Seal Kit		3-1/4	26.84	ATL-4A45S000V	I-U-1	4-1/2		175.49
ATL-1E00S040S	Head Seal Kit		4	24.83	ATL-4A50S000S	I-U-1	5		73.56
ATL-1E00S040V	Head Seal Kit		4	29.04	ATL-4A50S000V	I-U-1	5		236.02
ATL-1E00S050S	Head Seal Kit		5	29.76	ATL-4B00S015S	N-N-5		1-1/2	12.62
ATL-1E00S050V	Head Seal Kit		5	45.18	ATL-4B00S015V	N-N-5		1-1/2	57.99
ATL-1E00S060S	Head Seal Kit		6	46.70	ATL-4B00S020S	N-N-5		2	15.04
ATL-1E00S060V	Head Seal Kit		6	48.79	ATL-4B00S020V	N-N-5		2	66.30
ATL-1E00S070S	Head Seal Kit		7	98.95	ATL-4B00S025S	N-N-5		2-1/2	17.24
ATL-1E00S070V	Head Seal Kit		7	115.05	ATL-4B00S025V	N-N-5		2-1/2	91.83
ATL-1E00S080S	Head Seal Kit		8	105.24	ATL-4B00S032S	N-N-5		3-1/4	20.92
ATL-1E00S080V	Head Seal Kit		8	134.26	ATL-4B00S032V	N-N-5		3-1/4	98.62
ATL-1E00S100S	Head Seal Kit		10	191.37	ATL-4B00S040S	N-N-5		4	26.64
ATL-1E00S100V	Head Seal Kit		10	215.53	ATL-4B00S040V	N-N-5		4	116.96
ATL-1E00S120S	Head Seal Kit		12	217.50	ATL-4B00S050S	N-N-5		5	32.25
ATL-1E00S120V	Head Seal Kit		12	248.11	ATL-4B00S050V	N-N-5		5	145.05
ATL-4A06R000S	I-U-1	5/8		137.44	ATL-4B00S060S	N-N-5		6	41.91
ATL-4A06R000V	I-U-1	5/8		182.50	ATL-4B00S060V	N-N-5		6	199.48
ATL-4A06S000S	I-U-1	5/8		15.66	ATL-4B00S070S	N-N-5		7	116.89
ATL-4A06S000V	I-U-1	5/8		43.50	ATL-4B00S070V	N-N-5		7	360.66
ATL-4A07S000S	I-U-1	3/4		21.11	ATL-4B00S080S	N-N-5		8	132.59
ATL-4A07S000V	I-U-1	3/4		62.43	ATL-4B00S080V	N-N-5		8	434.83

Kit Number	Code	Rod Size	Bore Size	List Price	Kit Number	Code	Rod Size	Bore Size	List Price
ATL-4B00S100S	N-N-5		10	\$188.76	ATL-EA20S000S	I-U-1	2		\$22.86
ATL-4B00S100V	N-N-5		10	602.60	ATL-EA25R000S	I-U-1	2-1/2		299.63
ATL-4B00S120S	N-N-5		12	255.44	ATL-EA25S000S	I-U-1	2-1/2		26.12
ATL-4B00S120V	N-N-5		12	935.31	ATL-EA30R000S	I-U-1	3		399.05
ATL-4B00S140S	N-N-5		14	395.50	ATL-EA30S000S	I-U-1	3		52.95
ATL-4B00S140V	N-N-5		14	1378.81	ATL-EA35S000S	I-U-1	3-1/2		76.67
ATL-4E00S015S	Head Seal Kit		1-1/2	7.32	ATL-EA40S000S	I-U-1	4		85.44
ATL-4E00S015V	Head Seal Kit		1-1/2	10.52	ATL-EA45S000S	I-U-1	4-1/2		95.01
ATL-4E00S020S	Head Seal Kit		2	7.78	ATL-EA50S000S	I-U-1	5		103.07
ATL-4E00S020V	Head Seal Kit		2	17.88	ATL-EB00S015S	N-N-5		1-1/2	12.62
ATL-4E00S025S	Head Seal Kit		2-1/2	8.68	ATL-EB00S020S	N-N-5		2	15.04
ATL-4E00S025V	Head Seal Kit		2-1/2	23.44	ATL-EB00S025S	N-N-5		2-1/2	17.24
ATL-4E00S032S	Head Seal Kit		3-1/4	8.79	ATL-EB00S032S	N-N-5		3-1/4	20.92
ATL-4E00S032V	Head Seal Kit		3-1/4	27.37	ATL-EB00S040S	N-N-5		4	26.64
ATL-4E00S040S	Head Seal Kit		4	9.23	ATL-EB00S050S	N-N-5		5	32.25
ATL-4E00S040V	Head Seal Kit		4	35.24	ATL-EB00S060S	N-N-5		6	41.91
ATL-4E00S050S	Head Seal Kit		5	10.78	ATL-4B00S070S	N-N-5		7	116.89
ATL-4E00S050V	Head Seal Kit		5	49.60	ATL-EB00S080S	N-N-5		8	132.59
ATL-4E00S060S	Head Seal Kit		6	13.35	ATL-HPK15-000	N-N-5		1-1/2	24.10
ATL-4E00S060V	Head Seal Kit		6	52.30	ATL-HPK20-000	N-N-5		2	27.02
ATL-4E00S070S	Head Seal Kit		7	13.54	ATL-HPK25-000	N-N-5		2-1/2	29.32
ATL-4E00S070V	Head Seal Kit		7	73.93	ATL-HPK35-000	N-N-5		3-1/4	43.92
ATL-4E00S080S	Head Seal Kit		8	16.47	ATL-HPK40-000	N-N-5		4	52.96
ATL-4E00S080V	Head Seal Kit		8	74.15	ATL-HPK50-000	N-N-5		5	65.82
ATL-4E00S100S	Head Seal Kit		10	19.11	ATL-HPK60-000	N-N-5		6	78.67
ATL-4E00S100V	Head Seal Kit		10	82.58	ATL-HPK80-000	N-N-5		8	160.09
ATL-4E00S120S	Head Seal Kit		12	22.04	ATL-HRK100	I-U-1	1		16.28
ATL-4E00S120V	Head Seal Kit		12	99.58	ATL-HRK137	I-U-1	1-3/8		18.88
ATL-4E00S140S	Head Seal Kit		14	111.49	ATL-HRK175	I-U-1	1-3/4		20.88
ATL-4E00S140V	Head Seal Kit		14	199.95	ATL-HRK200	I-U-1	2		22.38
ATL-90030340-69	I-U-1	1-3/4		19.71	ATL-HRK62	I-U-1	5/8		13.59
ATL-90030340-79	I-U-1	1-3/8		22.04	ATL-PH00KH070	N-N-10		7	490.86
ATL-90030370-69	I-U-1	1-3/4		19.55	ATL-PH00KH080	N-N-10		8	596.62
ATL-90030370-79	I-U-1	1-3/8		18.07	ATL-PH00LH015	N-N-5		1-1/2	20.28
ATL-APK100-000	N-N-5		10	237.50	ATL-PH00LH020	N-N-5		2	21.43
ATL-APK20-000	N-N-5		2	20.56	ATL-PH00LH025	N-N-5		2-1/2	25.47
ATL-APK25-000	N-N-5		2-1/2	21.73	ATL-PH00LH032	N-N-5		3-1/4	46.60
ATL-APK40-000	N-N-5		4	59.78	ATL-PH00LH040	N-N-5		4	55.42
ATL-APK50-000	N-N-5		5	60.27	ATL-PH00LH050	N-N-5		5	81.43
ATL-APK60-000	N-N-5		6	71.05	ATL-PH00LH060	N-N-5		6	121.87
ATL-APK80-000	N-N-5		8	121.99	ATL-PH06SH000	I-U-1	5/8		14.18
ATL-EA06R000S	I-U-1	5/8		143.17	ATL-PH10SH000	I-U-1	1		15.31
ATL-EA06S000S	I-U-1	5/8		13.20	ATL-PH13SH000	I-U-1	1-3/8		20.57
ATL-EA10R000S	I-U-1	1		160.11	ATL-PH17SH000	I-U-1	1-3/4		20.78
ATL-EA10S000S	I-U-1	1		14.21	ATL-PH20SH000	I-U-1	2		28.42
ATL-EA13R000S	I-U-1	1-3/8		184.03	ATL-PH25SH000	I-U-1	2-1/2		35.42
ATL-EA13S000S	I-U-1	1-3/8		15.15	ATL-PH30SH000	I-U-1	3		37.59
ATL-EA17R000S	I-U-1	1-3/4		217.31	ATL-PH35SH000	I-U-1	3-1/2		72.73
ATL-EA17S000S	I-U-1	1-3/4		17.73	ATL-PK1502MA01	N-N-5		1-1/2	37.96
ATL-EA20R000S	I-U-1	2		266.65	ATL-PK1502MA05	N-N-5		1-1/2	73.95

ATLAS

Kit Number	Code	Rod Size	Bore Size	List Price	Kit Number	Code	Rod Size	Bore Size	List Price
ATL-PK2002MA01	N-N-5		2	\$38.47	ATL-RG02MA-06	Bronze Rod Gland	5/8		\$36.19
ATL-PK2002MA05	N-N-5		2	79.20	ATL-RG02MA-10	Bronze Rod Gland	1		45.29
ATL-PK2502MA01	N-N-5		2-1/2	41.25	ATL-RG02MA-13	Bronze Rod Gland	1-3/8		65.48
ATL-PK2502MA05	N-N-5		2-1/2	105.13	ATL-RG02MA-17	Bronze Rod Gland	1-3/4		103.12
ATL-PK3202MA01	N-N-5		3-1/4	49.60	ATL-RK02MA0051	I-SP-1	1/2		20.36
ATL-PK3202MA05	N-N-5		3-1/4	129.95	ATL-RK02MA0055	I-SP-1	1/2		30.44
ATL-PK4002MA01	N-N-5		4	60.81	ATL-RK02MA0061	I-SP-1	5/8		20.99
ATL-PK4002MA05	N-N-5		4	147.22	ATL-RK02MA0065	I-SP-1	5/8		31.27
ATL-PK5002MA01	N-N-5		5	78.67	ATL-RK02MA0101	I-SP-1	1		21.53
ATL-PK5002MA05	N-N-5		5	222.77	ATL-RK02MA0105	I-SP-1	1		32.29
ATL-PK6002MA01	N-N-5		6	105.20	ATL-RK02MA0131	I-SP-1	1-3/8		23.04
ATL-PK6002MA05	N-N-5		6	315.53	ATL-RK02MA0135	I-SP-1	1-3/8		40.43
ATL-PK8002MA01	N-N-5		8	185.71	ATL-RK02MA0171	I-SP-1	1-3/4		24.61
ATL-PK8002MA05	N-N-5		8	527.61	ATL-RK02MA0175	I-SP-1	1-3/4		50.85
ATL-RGAL-06	Bronze Rod Gland	5/8		120.55	ATL-VH00KH070	N-N-1		7	496.52
ATL-RGAL-10	Bronze Rod Gland	1		135.39	ATL-VH00KH080	N-N-1		8	612.63
ATL-RGAL-13	Bronze Rod Gland	1-3/8		158.72	ATL-VH00LH015	N-N-5		1-1/2	71.30
ATL-RGAL-17	Bronze Rod Gland	1-3/4		185.34	ATL-VH00LH020	N-N-5		2	102.75
ATL-RGAL-20	Bronze Rod Gland	2		224.83	ATL-VH00LH025	N-N-5		2-1/2	118.32
ATL-RGAL-25	Bronze Rod Gland	2-1/2		253.84	ATL-VH00LH032	N-N-5		3-1/4	136.66
ATL-RGAL-30	Bronze Rod Gland	3		315.90	ATL-VH00LH040	N-N-5		4	312.49
ATL-RG02MA0051	I-SP-1	1/2		63.09	ATL-VH00LH050	N-N-5		5	469.47
ATL-RG02MA0055	I-SP-1	1/2		67.22	ATL-VH00LH060	N-N-5		6	552.00
ATL-RG02MA0061	I-SP-1	5/8		41.69	ATL-VH06SH000	I-U-1	5/8		43.31
ATL-RG02MA0065	I-SP-1	5/8		66.56	ATL-VH10SH000	I-U-1	1		61.12
ATL-RG02MA0101	I-SP-1	1		47.75	ATL-VH13SH000	I-U-1	1-3/8		63.75
ATL-RG02MA0105	I-SP-1	1		73.76	ATL-VH17SH000	I-U-1	1-3/4		75.59
ATL-RG02MA0131	I-SP-1	1-3/8		71.31	ATL-VH20SH000	I-U-1	2		86.56
ATL-RG02MA0135	I-SP-1	1-3/8		106.62	ATL-VH25SH000	I-U-1	2-1/2		139.91
ATL-RG02MA0171	I-SP-1	1-3/4		145.15	ATL-VH30SH000	I-U-1	3		161.21
ATL-RG02MA0175	I-SP-1	1-3/4		162.81	ATL-VH35SH000	I-U-1	3-1/2		224.12
ATL-RG02MA-05	Bronze Rod Gland	1/2		49.11					

HANNA

Various Kits

Kit Number	Code	Rod Size	Bore Size	List Price
HANNA-706-00046-061	I-U-1	0.625	-	\$15.06
HANNA-706-00046-133	P-U-1	1.375	-	149.38
HANNA-706-00046-171	I-U-1	1.75	-	28.41
HANNA-706-00046-301	I-U-1	3	-	27.46
HANNA-706-00046-351	I-U-1	3.5	-	44.54
HANNA-706-00046-451	I-U-1	4.5	-	50.86
HANNA-706-00046-551	I-U-1	5.5	-	86.17
HANNA-706-41806-001-CSK	I-U-10	56 mm	100 mm	123.15

HUSKY

Various Kits

Kit Number	Code	Rod Size	Bore Size	List Price	Kit Number	Code	Rod Size	Bore Size	List Price
HUSKY-642443	I-U-10	1-3/8	2-1/2	\$24.45	HUSKY-656916	I-U-10	1	1-1/2	\$22.20
HUSKY-642565	I-U-10	1-3/4	4	46.77	HUSKY-688321	I-UB-10	50 mm	70 mm	152.61
HUSKY-642570	I-U-10	1	2-1/2	23.77	HUSKY-688322	I-UB-10	56 mm	80 mm	223.5
HUSKY-645387	I-U-10	2	3-1/4	30.42					

REPLACEMENT PARTS FOR HUSKY EQUIPMENT

NOTE: Husky part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

BACK-UP RINGS

Part Number	Min. Pkgs.	List Price
HUSKY-636870	1	\$18.44
HUSKY-639080	10	2.49
HUSKY-639471	10	1.98
HUSKY-643287	1	3.38
HUSKY-643289	1	9.6
HUSKY-652245	25	0.73
HUSKY-660960	10	0.58
HUSKY-6785820	1	2782.25
HUSKY-689925	25	0.90

FACE SEALS

Part Number	List Price
HUSKY-606030	\$194.44
HUSKY-607556	0.13

OIL SEALS

Part Number	List Price
HUSKY-246715	\$1725.44

O-RINGS

Part Number	Min. Pkgs.	List Price
HUSKY-3871	20	\$0.12
HUSKY-5062	50	0.28
HUSKY-10883	50	0.19
HUSKY-10891	20	\$1.20
HUSKY-203323	1	\$50.27
HUSKY-217943	1	96.11
HUSKY-225984	1	146.33
HUSKY-530532	20	0.25
HUSKY-622402	1	865.78

O-RINGS

Part Number	Min. Pkgs.	List Price
HUSKY-622403	1	1051.11
HUSKY-622729	5	4.21
HUSKY-622730	1	86.61
HUSKY-622731	5	4.88
HUSKY-622733	5	4.18
HUSKY-622959	10	1.33
HUSKY-639087	10	2.17
HUSKY-639088	10	1.84
HUSKY-639470	20	0.92
HUSKY-642053	1	20.63
HUSKY-642798	30	0.08
HUSKY-642799	20	0.20
HUSKY-642800	20	0.11
HUSKY-642801	20	0.63
HUSKY-642803	20	0.12
HUSKY-642808	15	1.04
HUSKY-642809	10	1.25
HUSKY-642811	10	1.47
HUSKY-642814	10	2.00
HUSKY-642820	3	1.39
HUSKY-642821	2	1.18
HUSKY-642822	3	5.66
HUSKY-2239660	20	0.59
HUSKY-3017944	1	96.44
HUSKY-10122812	1	101.33

PISTON SEALS

Part Number	List Price
HUSKY-691641	\$488.89
HUSKY-8673469	41.81

PORT PLUGS

Part Number	List Price
HUSKY-603765	\$4.73
HUSKY-603766	1.64
HUSKY-603767	1.85
HUSKY-603769	2.07
HUSKY-603770	9.63
HUSKY-603772	4.55
HUSKY-603773	11.27
HUSKY-603774	8.82
HUSKY-603775	18.39
HUSKY-685309	3.41

ROD SEALS

Part Number	List Price
HUSKY-622726	\$472.22
HUSKY-7527631	31.03

WEAR RINGS

Part Number	List Price
HUSKY-653888	\$705.56
HUSKY-653889	7.91
HUSKY-653897	7.94
HUSKY-653898	666.67
HUSKY-2424908	568.33
HUSKY-5311683	1094.83
HUSKY-5420283	499.33

WIPERS

Part Number	List Price
HUSKY-604254	\$3.16

NOTES

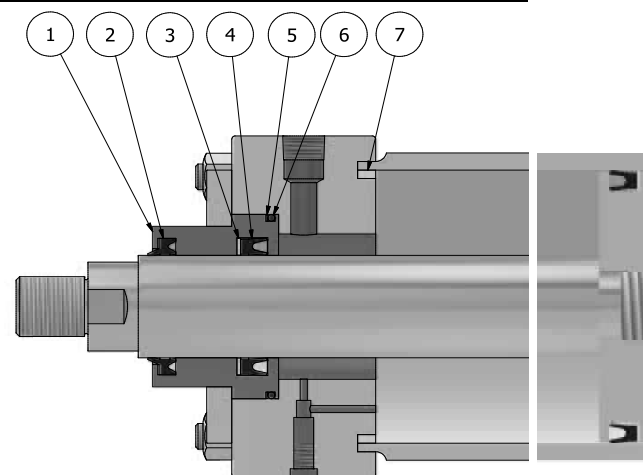
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Universal Series

Rod Kits for A5, N2, N5, R2, & R5 cylinders

Piston Kits for N2 & N5 cylinders



Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal Back-Up
6	Head Seal
7	End Seal
8	Piston Seal
9	Piston Seal Back-Up

Rod Gland Kits (1,2,3,4,5,6) Nitrile

Rod Dia	Sales Part No	List Price
5/8	HN5-665-05	\$208.02
1	HN5-665-08	258.24
1-3/8	HN5-665-11	276.24
1-3/4	HN5-665-14	321.17
2	HN5-665-16	334.40
2-1/2	HN5-665-20	362.91
3	HN5-665-24	546.73
3-1/2	HN5-665-28	640.08
4	HN5-665-32	709.43
4-1/2	HN5-665-36	1004.14
4-1/2	HN5-665-36A	1004.14
5	HN5-665-40	1208.26
5-1/2	HN5-665-44	1311.13

Rod Seal Kits (2,3,4,5,6) Nitrile

Rod Dia	Sales Part No	List Price
5/8	HSKN25-665-05	\$17.95
1	HSKN25-665-08	18.66
1-3/8	HSKN25-665-11	23.82
1-3/4	HSKN25-665-14	30.10
2	HSKN25-665-16	33.63
2-1/2	HSKN25-665-20	40.22

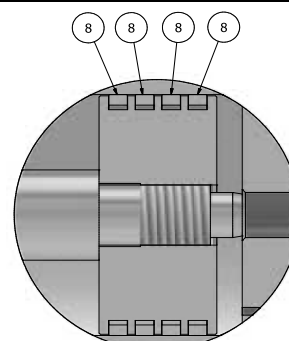
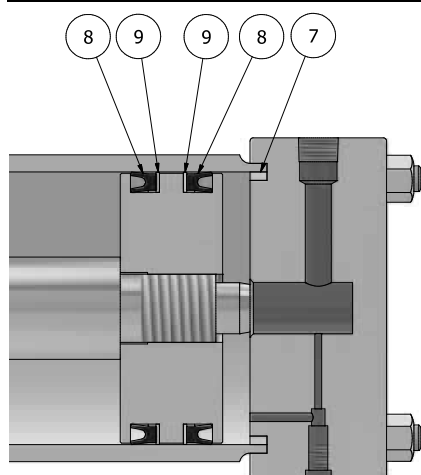
Rod Gland Kits (1,2,3,4,5,6) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	HSKN2-661-05V	\$57.48
1	HSKN2-661-08V	61.03
1-3/8	HSKN2-661-11V	68.00
1-3/4	HSKN2-661-14V	79.72
2	HSKN2-661-16V	84.19
2-1/2	HSKN2-661-20V	93.96
3	HSKN5-660-24V	124.03
3-1/2	HSKN5-660-28V	144.92
4	HSKN5-660-32V	151.44
4-1/2	HSKN5-660-36V	159.87
5	HSKN5-660-40V	192.17
5-1/2	HSKN5-660-44V	217.03

Rod Seal Kits (2,3,4,5,6) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	HSKN25-665-05V	\$62.22
1	HSKN25-665-08V	64.73
1-3/8	HSKN25-665-11V	82.21
1-3/4	HSKN25-665-14V	92.29
2	HSKN25-665-16V	97.80
2-1/2	HSKN25-665-20V	111.28

HYDROLINE



Cast Iron Piston Kits

Rod Glands (1), includes spacer Iron

Rod Dia	Sales Part No	List Price
5/8	HN5-655-05	\$180.59
1	HN5-655-08	230.63
1-3/8	HN5-655-11	242.16
1-3/4	HN5-655-14	279.27
2	HN5-655-16	291.93
2-1/2	HN5-655-20	314.28
3	HN5-655-24	467.99
3-1/2	HN5-655-28	548.22
4	HN5-655-32	601.68
4-1/2	HN5-655-36	855.76
4-1/2	HN5-655-36A	855.76
5	HN5-655-40	1042.93
5-1/2	HN5-655-44	1123.19

Rod Glands (1) Bronze

Rod Dia	Sales Part No	List Price
5/8	HN5-B-650-05	\$176.58
1	HN5-B-650-08	189.21
1-3/8	HN5-B-650-11	222.73
1-3/4	HN5-B-650-14	257.02
2	HN5-B-650-16	265.76
2-1/2	HN5-B-650-20	334.79
3	HN5-B-650-24	356.65
3-1/2	HN5-B-650-28	632.92
4	HN5-B-650-32	680.31
4-1/2	HN5-B-650-36	937.32
4-1/2	HN5-B-650-36A	737.45
5	HN5-B-650-40	1029.84
5-1/2	HN5-B-650-44	1075.12

Piston Seal Kits (7,8,9) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	HSKN25-512-03	\$61.09
2	HSKN25-512-04	68.54
2-1/2	HSKN25-512-05	71.48
3-1/4	HSKN25-512-065	93.34
4	HSKN25-512-08	109.88
5	HSKN25-512-10	143.92
6	HSKN25-512-12	163.45
7	HSKN25-512-14	193.67
8	HSKN25-512-16	273.62

Piston Seal Kits (7,8,9) Fluorocarbon

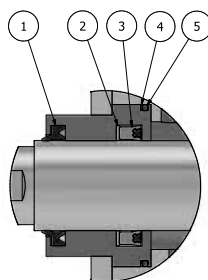
Bore Dia	Sales Part No	List Price
1-1/2	HSKN25-512-03V	\$120.27
2	HSKN25-512-04V	174.69
2-1/2	HSKN25-512-05V	188.31
3-1/4	HSKN25-512-065V	200.21
4	HSKN25-512-08V	247.18
5	HSKN25-512-10V	272.15
6	HSKN25-512-12V	403.48
7	HSKN25-512-14V	484.50
8	HSKN25-512-16V	401.49

Piston Seal Kits (7,8) Cast Iron

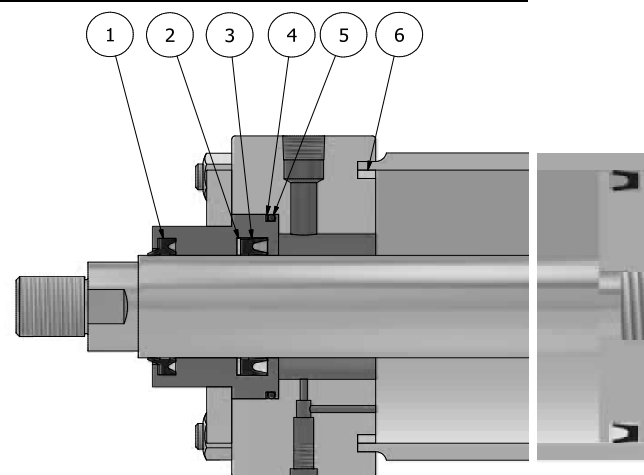
Bore Dia	Sales Part No	List Price
1-1/2	HSKN25-511-03	\$164.88
2	HSKN25-511-04	184.50
2-1/2	HSKN25-511-05	188.00
3-1/4	HSKN25-511-065	197.54
4	HSKN25-511-08	222.68
5	HSKN25-511-10	264.51
6	HSKN25-511-12	292.34
7	HSKN25-511-14	292.04

A5 HA5 Series

Components	
1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal



HA5 Fluorocarbon Rod Seal Kits



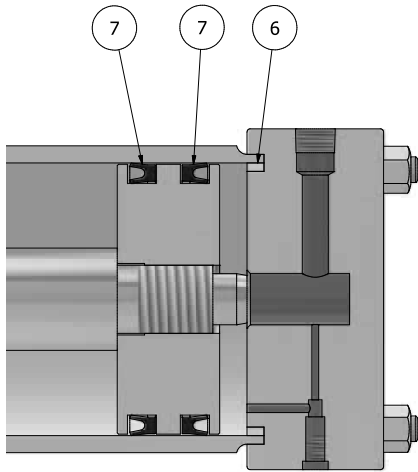
A5 Rod Seal Kits (1,2,3,4,5) Nitrile		
Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-05	\$15.49
1	HSKN5-660-08	15.73
1-3/8	HSKN5-660-11	19.73

HA5 Rod Seal Kits (1,3,4,5) Urethane		
Rod Dia	Sales Part No	List Price
5/8	HSKN5-681-05	\$26.06
1	HSKN5-681-08	28.58
1-3/8	HSKN5-681-11	31.88

A5 Rod Seal Kits (1,2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-05V	\$55.56
1	HSKN5-660-08V	58.37
1-3/8	HSKN5-660-11V	76.28

HA5 Rod Seal Kits (1,2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-P-05V	\$93.46
1	HSKN5-660-P-08V	106.08
1-3/8	HSKN5-660-P-11V	129.99

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Piston Seal Kits (6,7) Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	HSKA5-512-03	\$40.73
2	HSKA5-512-04	43.39
2-1/2	HSKA5-512-05	46.72
3-1/4	HSKA5-512-065	50.39
4	HSKA5-512-08	58.69
5	HSKA5-512-10	73.33
6	HSKA5-512-12	86.34

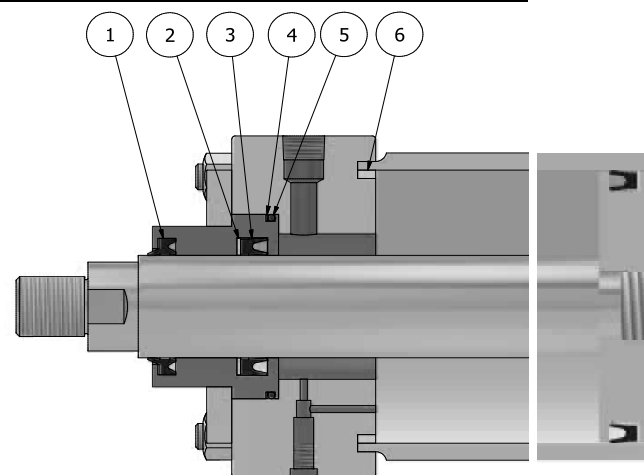
End Seal Kits (6) PTFE		
Bore	Sales Part No	List Price
1-1/2	HS-C221-03	\$12.19
2	HS-C221-04	13.27
2-1/2	HS-C221-05	14.64
3-1/4	HS-C221-065	15.81
4	HS-C221-08	17.84
5	HS-C221-10	24.14
6	HS-C221-12	31.07

Piston Seal Kits (6,7) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	HSKA5-512-03V	\$82.38
2	HSKA5-512-04V	85.35
2-1/2	HSKA5-512-05V	100.65
3-1/4	HSKA5-512-065V	113.51
4	HSKA5-512-08V	123.37
5	HSKA5-512-10V	144.69
6	HSKA5-512-12V	236.76

N2 Series

Components

	Components
1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up



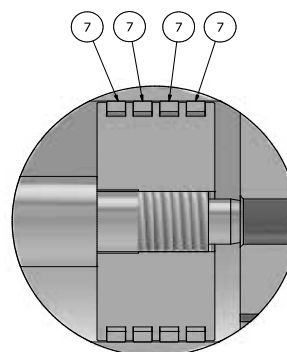
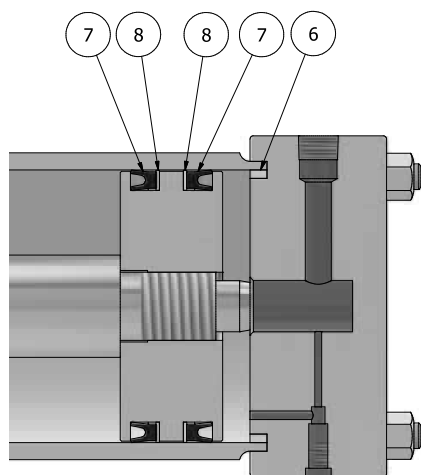
Rod Seal Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
5/8	HSKN2-661-05	\$15.53
1	HSKN2-661-08	15.42
1-3/8	HSKN2-661-11	18.81
1-3/4	HSKN2-661-14	22.09
2	HSKN2-661-16	24.46
2-1/2	HSKN2-661-20	36.71
3	HSKN5-660-24	31.88
3-1/2	HSKN5-660-28	34.96
4	HSKN5-660-32	43.87
4-1/2	HSKN5-660-36	47.24
5	HSKN5-660-40	69.96
5-1/2	HSKN5-660-44	95.37

Rod Seal Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	HSKN2-661-05V	\$57.48
1	HSKN2-661-08V	61.03
1-3/8	HSKN2-661-11V	68.00
1-3/4	HSKN2-661-14V	79.72
2	HSKN2-661-16V	84.19
2-1/2	HSKN2-661-20V	93.96
3	HSKN5-660-24V	124.03
3-1/2	HSKN5-660-28V	144.92
4	HSKN5-660-32V	151.44
4-1/2	HSKN5-660-36V	159.87
5	HSKN5-660-40V	192.17
5-1/2	HSKN5-660-44V	217.03

HYDROLINE



Cast Iron Piston Kits

Piston Seal Kits (6,7,8) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	HSKN2-512-03	\$51.98
2	HSKN2-512-04	63.00
2-1/2	HSKN2-512-05	68.00
3-1/4	HSKN2-512-065	65.35
4	HSKN2-512-08	78.53
5	HSKN2-512-10	100.88
6	HSKN2-512-12	113.36
7	HSKN2-512-14	173.11
8	HSKN2-512-16	219.22
10	HSKN2-512-20	246.51
12	HSKN2-512-24	387.48

Piston Seal Kits (6,7) Cast Iron

Bore Dia	Sales Part No	List Price
1-1/2	HSKN2-511-03	\$129.05
2	HSKN2-511-04	147.12
2-1/2	HSKN2-511-05	149.49
3-1/4	HSKN2-511-065	157.82
4	HSKN2-511-08	177.67
5	HSKN2-511-10	216.19
6	HSKN2-511-12	228.31
7	HSKN2-511-14	255.74
8	HSKN2-511-16	314.43
10	HSKN2-511-20	656.66
12	HSKN2-511-24	888.27

Piston Seal Kits (6,7,8) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	HSKN2-512-03V	\$101.16
2	HSKN2-512-04V	132.82
2-1/2	HSKN2-512-05V	141.20
3-1/4	HSKN2-512-065V	160.48
4	HSKN2-512-08V	189.83
5	HSKN2-512-10V	210.22
6	HSKN2-512-12V	279.27
7	HSKN2-512-14V	411.39
8	HSKN2-512-16V	454.44
10	HSKN2-512-20V	845.41
12	HSKN2-512-24V	1253.47

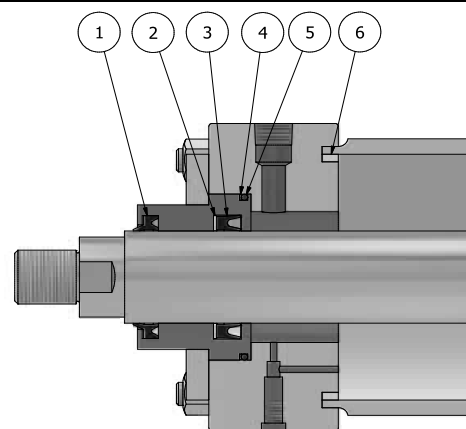
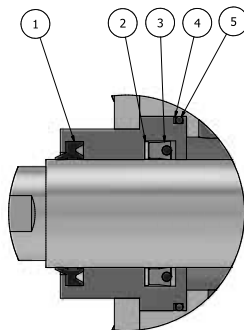
End Seal Kits (6) PTFE

Bore Dia	Sales Part No	List Price
1-1/2	HS-C124-03	\$15.00
2	HS-C124-04	18.21
2-1/2	HS-C124-05	21.10
3-1/4	HS-C124-065	26.68
4	HS-C124-08	28.69
5	HS-C124-10	31.56
6	HS-C124-12	32.59
7 & UP	HS-C124-STRIP	22.56

*Sold by the foot

N5 Series

Rod Seal Kit, Loaded U-Seal



Rod Seal Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-05	\$15.49
1	HSKN5-660-08	15.73
1-3/8	HSKN5-660-11	19.73
1-3/4	HSKN5-660-14	24.87
2	HSKN5-660-16	27.87
2-1/2	HSKN5-660-20	30.64
3	HSKN5-660-24	31.88
3-1/2	HSKN5-660-28	34.96
4	HSKN5-660-32	43.87
4-1/2	HSKN5-660-36	47.24
5	HSKN5-660-40	69.96
5-1/2	HSKN5-660-44	95.37

Rod Seal Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-05V	\$55.56
1	HSKN5-660-08V	58.37
1-3/8	HSKN5-660-11V	76.28
1-3/4	HSKN5-660-14V	79.11
2	HSKN5-660-16V	84.29
2-1/2	HSKN5-660-20V	95.12
3	HSKN5-660-24V	124.03
3-1/2	HSKN5-660-28V	144.92
4	HSKN5-660-32V	151.44
4-1/2	HSKN5-660-36V	159.87
5	HSKN5-660-40V	192.17
5-1/2	HSKN5-660-44V	217.03

Rod Seal Kits (1,2,3,4,5), Urethane Loaded U-Seal

Rod Dia	Sales Part No	List Price
1/2	HSKN5-660-P-04	\$21.93
1	HSKN5-660-P-08	24.35
1-3/4	HSKN5-660-P-14	30.23
2-1/2	HSKN5-660-P-20	45.49
3-1/2	HSKN5-660-P-28	55.95

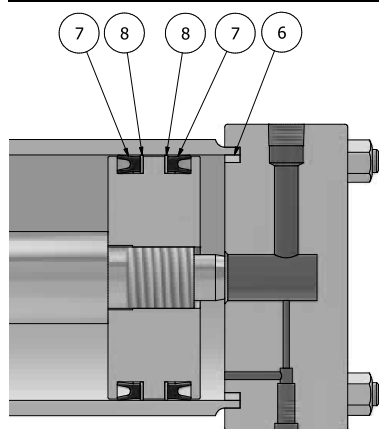
Rod Seal Kits (1,3,4,5) Urethane

Rod Dia	Sales Part No	List Price
5/8	HSKN5-681-05	\$26.06
1	HSKN5-681-08	28.58
1-3/8	HSKN5-681-11	31.88
1-3/4	HSKN5-681-14	34.10
2	HSKN5-681-16	44.39
2-1/2	HSKN5-681-20	62.49
3	HSKN5-681-24	68.13
3-1/2	HSKN5-681-28	74.62
4	HSKN5-681-32	87.50
4-1/2	HSKN5-681-36	114.95
5	HSKN5-681-40	120.41
5-1/2	HSKN5-681-44	143.28

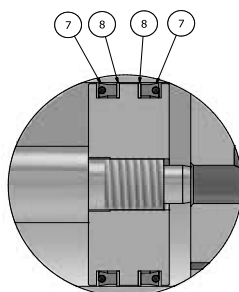
Rod Seal Kits (1,2,3,4,5) Fluorocarbon Loaded U-Seal

Rod Dia	Sales Part No	List Price
5/8	HSKN5-660-P-05V	\$93.46
1	HSKN5-660-P-08V	106.08
1-3/8	HSKN5-660-P-11V	129.99
1-3/4	HSKN5-660-P-14V	143.23
2	HSKN5-660-P-16V	149.18
2-1/2	HSKN5-660-P-20V	217.52
3	HSKN5-660-P-24V	250.53
3-1/2	HSKN5-660-P-28V	279.71
4	HSKN5-660-P-32V	337.83
4-1/2	HSKN5-660-P-36V	362.33
5	HSKN5-660-P-40V	371.44
5-1/2	HSKN5-660-P-44V	379.74

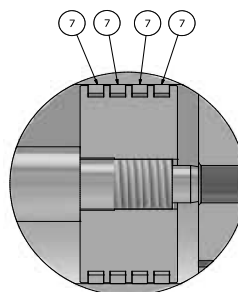
HYDROLINE



Loaded U-Seal Piston Kits



Cast Iron Piston Kits



Components

1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

Piston Seal Kits (6,7,8) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	HSKN5-512-03	\$40.39
2	HSKN5-512-04	55.56
2-1/2	HSKN5-512-05	59.43
3-1/4	HSKN5-512-065	65.35
4	HSKN5-512-08	78.34
5	HSKN5-512-10	95.52
6	HSKN5-512-12	99.40
7	HSKN5-512-14	188.00
8	HSKN5-512-16	263.73
10	HSKN2-512-20	246.51
12	HSKN2-512-24	387.48

Piston Seal Kits (6,7) Cast Iron

Bore Dia	Sales Part No	List Price
1.530	HSKN5-511-03	\$128.20
2.030	HSKN5-511-04	139.74
2.530	HSKN5-511-05	140.87
3.280	HSKN5-511-065	145.19
4.030	HSKN5-511-08	166.36
5.030	HSKN5-511-10	202.53
6.030	HSKN5-511-12	228.31
7.030	HSKN5-511-14	269.81
8.030	HSKN5-511-16	342.39
10.030	HSKN2-511-20	656.66
12.030	HSKN2-511-24	888.27

Piston Seal Kits (6,7,8) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	HSKN5-512-03V	\$100.32
2	HSKN5-512-04V	138.83
2-1/2	HSKN5-512-05V	141.20
3-1/4	HSKN5-512-065V	147.47
4	HSKN5-512-08V	190.88
5	HSKN5-512-10V	224.13
6	HSKN5-512-12V	265.36
7	HSKN5-512-14V	378.71
8	HSKN5-512-16V	426.41
10	HSKN2-512-20V	845.41
12	HSKN2-512-24V	1253.47

End Seal Kits (6) PTFE

Bore Dia	Sales Part No	List Price
1-1/2	HS-C255-03	\$16.09
2	HS-C255-04	18.60
2-1/2	HS-C255-05	19.63
3-1/4	HS-C255-065	20.22
4	HS-C255-08	22.95
5	HS-C255-10	24.43
6	HS-C255-12	25.49
7	HS-C255-14	26.68
8	HS-C255-16	31.05
7 & UP	HS-C124-STRIP	22.56

*Sold by the foot

Piston Seal Kits (6,7,8) Urethane Loaded U-Seal

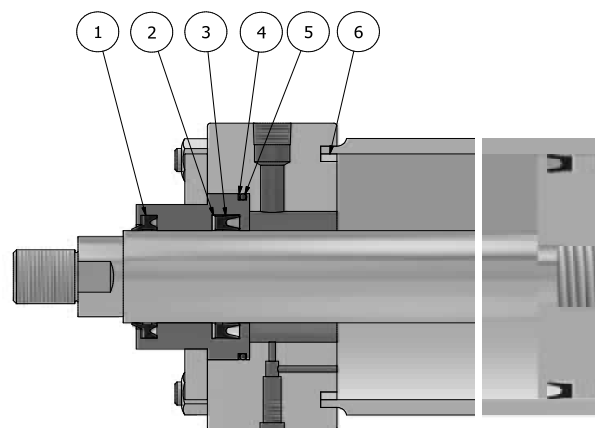
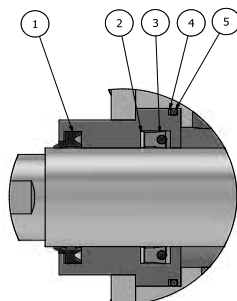
Rod Dia	Sales Part No	List Price
2-1/2	HSKN5-512-P-05	\$67.68
8	HSKN5-512-P-16	338.87

R2 & LR2 Series

Components

Components	
1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

Rod Seal Kits, Loaded U-Seal



Rod Seal Kits (1,2,3,4,5) Nitrile

Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1	HSKR2-662-05A	\$13.60
5/8	1.5 & Up	HSKN2-661-05	15.53
1	1.5, 2, 2.5	HSKR2-662-08	14.84
1	3.25 & Up	HSKN2-661-08	15.42
1-3/8	2, 2.5	HSKR2-662-11	18.07
1-3/8	3.25 & Up	HSKN2-661-11	18.81
1-3/4	2.5	HSKR2-662-14	22.22
1-3/4	3.25 & Up	HSKN2-661-14	22.09
2	All	HSKN2-661-16	24.46
2-1/2	All	HSKN2-661-20	36.71
3	All	HSKN5-660-24	31.88
3-1/2	All	HSKN5-660-28	34.96
4	All	HSKN5-660-32	43.87
4-1/2	All	HSKN5-660-36	47.24
5	All	HSKN5-660-40	69.96
5-1/2	All	HSKN5-660-44	95.37

Rod Seal Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1	HSKR2-662-05AV	\$57.37
5/8	1.5 & Up	HSKN2-661-05V	57.48
1	1.5, 2, 2.5	HSKR2-662-08V	58.53
1	3.25 & Up	HSKN2-661-08V	61.03
1-3/8	2, 2.5	HSKR2-662-11V	75.43
1-3/8	3.25 & Up	HSKN2-661-11V	68.00
1-3/4	2.5	HSKR2-662-14V	77.50
1-3/4	3.25 & Up	HSKN2-661-14V	79.72
2	All	HSKN2-661-16V	84.19
2-1/2	All	HSKN2-661-20V	93.96
3	All	HSKN5-660-24V	124.03
3-1/2	All	HSKN5-660-28V	144.92
4	All	HSKN5-660-32V	151.44
4-1/2	All	HSKN5-660-36V	159.87
5	All	HSKN5-660-40V	192.17
5-1/2	All	HSKN5-660-44V	217.03

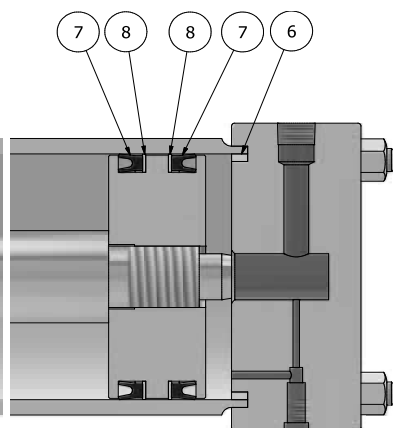
Rod Seal Kits (1,3,4,5) Urethane

Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1	HSKR2-681-05A	\$22.77
1	1.5, 2, 2.5	HSKR2-681-08	28.26
1-3/8	2, 2.5	HSKR2-681-11	28.58
1-3/4	2.5	HSKR2-681-14	29.86

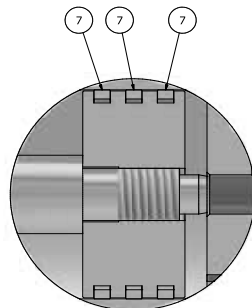
Rod Seal Kits (1,2,3,4,5) Fluorocarbon Loaded U-Seal

Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1	HSKR2-662-P-05AV	\$88.50
1	1.5, 2, 2.5	HSKR2-662-P-08V	106.97
1-3/8	2, 2.5	HSKR2-662-P-11V	128.39
1-3/4	2.5	HSKR2-662-P-14V	143.79

HYDROLINE



Cast Iron Piston Kits



Piston Seal Kits (6,7,8) Nitrile

Bore Dia	Sales Part No	List Price
1	HSKR5-512-02	\$41.69
1-1/2	HSKR5-512-03	44.03
2	HSKR5-512-04	48.18
2-1/2	HSKR5-512-05	52.62
3-1/4	HSKR5-512-065	58.37
4	HSKR5-512-08	68.45
5	HSKR5-512-10	86.69
6	HSKR5-512-12	96.75
8	HSKR5-512-16	251.69
10	HSKR5-512-20	246.51
12	HSKR5-512-24	387.48
14	HSKR5-512-28	557.40

Piston Seal Kits (6,7) Cast Iron

Bore Dia	Sales Part No	List Price
1	HSKR5-511-02	\$138.89
1-1/2	HSKR5-511-03	93.17
2	HSKR5-511-04	95.95
2-1/2	HSKR5-511-05	97.53
3-1/4	HSKR5-511-065	112.91
4	HSKR5-511-08	127.25
5	HSKR5-511-10	164.58
6	HSKR5-511-12	182.40
8	HSKR5-511-16	214.71
10	HSKR5-511-20	611.60
12	HSKR5-511-24	850.90

Piston Seal Kits (6,7,8) Fluorocarbon

Bore Dia	Sales Part No	List Price
1	HSKR5-512-02V	\$89.00
1-1/2	HSKR5-512-03V	93.17
2	HSKR5-512-04V	131.45
2-1/2	HSKR5-512-05V	134.37
3-1/4	HSKR5-512-065V	140.61
4	HSKR5-512-08V	180.76
5	HSKR5-512-10V	201.34
6	HSKR5-512-12V	262.73
8	HSKR5-512-16V	498.72
10	HSKR5-512-20V	845.41
12	HSKR5-512-24V	1211.08
14	HSKR5-512-28V	1321.34

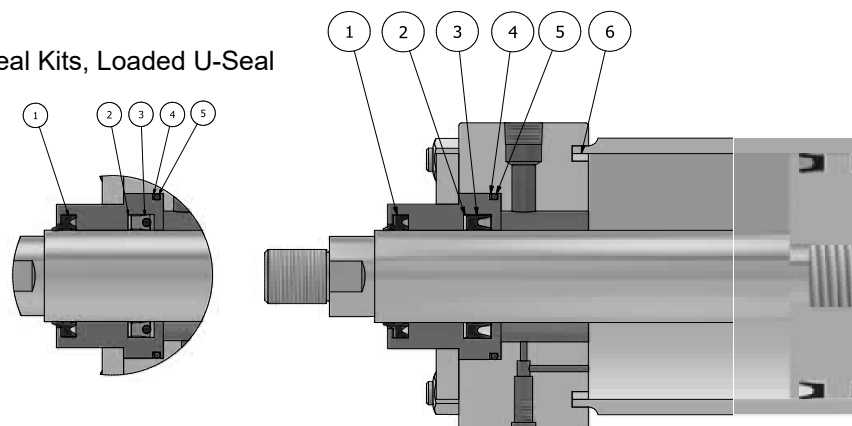
End Seal Kits (6) PTFE

Bore Dia	Sales Part No	List Price
1	HS-C221-02	\$11.37
1-1/2	HS-C221-03	12.19
2	HS-C221-04	13.27
2-1/2	HS-C221-05	14.64
3-1/4	HS-C221-065	15.81
4	HS-C221-08	17.84
5	HS-C221-10	24.14
6	HS-C221-12	31.07
8 & UP	HS-C221-STRIP*	14.51

*Sold by the foot

R5 & HR5 Series

Rod Seal Kits, Loaded U-Seal



Rod Seal Kits (1,2,3,4,5) Nitrile

Rod Dia	Bore Dia	Sales Part No	List Price
1/2	1	HSKN5-660-04	\$12.65
5/8	1	HSKR2-662-05A	13.60
5/8	1.5 & up	HSKN5-660-05	15.49
1	2 & up	HSKN5-660-08	15.73
1-3/8	2.5 & up	HSKN5-660-11	19.73
1-3/4	All	HSKN5-660-14	24.87
2	All	HSKN5-660-16	27.87
2-1/2	All	HSKN5-660-20	30.64
3	All	HSKN5-660-24	31.88
3-1/2	All	HSKN5-660-28	34.96
4	All	HSKN5-660-32	43.87
4-1/2	All	HSKN5-660-36	47.24
5	All	HSKN5-660-40	69.96
5-1/2	All	HSKN5-660-44	95.37

Rod Seal Kits (1,2,3,4,5) Urethane Loaded U-Seal

Rod Dia	Bore Dia	Sales Part No	List Price
1/2	1	HSKN5-660-P-04	\$21.93
1	2 & up	HSKN5-660-P-08	24.35
1-3/4	All	HSKN5-660-P-14	30.23
3-1/2	All	HSKN5-660-P-28	55.95

Rod Seal Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Bore Dia	Sales Part No	List Price
1/2	1	HSKN5-660-04V	\$46.56
5/8	1	HSKR2-662-05AV	57.37
5/8	1.5 & up	HSKN5-660-05V	55.56
1	2 & up	HSKN5-660-08V	58.37
1-3/8	2.5 & up	HSKN5-660-11V	76.28
1-3/4	All	HSKN5-660-14V	79.11
2	All	HSKN5-660-16V	84.29
2-1/2	All	HSKN5-660-20V	95.12
3	All	HSKN5-660-24V	124.03
3-1/2	All	HSKN5-660-28V	144.92
4	All	HSKN5-660-32V	151.44
4-1/2	All	HSKN5-660-36V	159.87
5	All	HSKN5-660-40V	192.17
5-1/2	All	HSKN5-660-44V	217.03

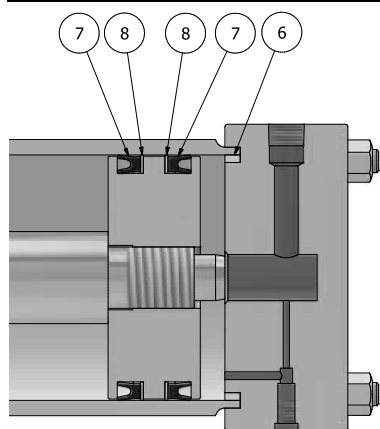
Rod Seal Kits (1,3,4,5) Urethane

Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1	HSKN5-681-05A	\$22.77
5/8	1.5 & up	HSKN5-681-05	26.06
1	2 & up	HSKN5-681-08	28.58
1-3/8	2.5 & up	HSKN5-681-11	31.88
1-3/4	All	HSKN5-681-14	34.10
2	All	HSKN5-681-16	44.39
2-1/2	All	HSKN5-681-20	62.49
3	All	HSKN5-681-24	68.13
3-1/2	All	HSKN5-681-28	74.62
4	All	HSKN5-681-32	87.50
4-1/2	All	HSKN5-681-36	114.95
5	All	HSKN5-681-40	120.41
5-1/2	All	HSKN5-681-44	143.28

Rod Seal Kits (1,2,3,4,5) Fluorocarbon Loaded U-Seal

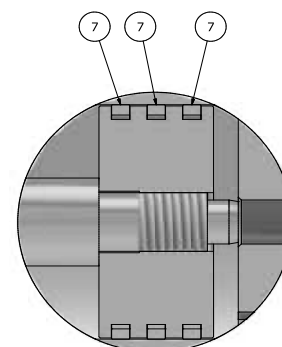
Rod Dia	Bore Dia	Sales Part No	List Price
1/2	1	HSKN5-660-P-04V	\$87.93
5/8	1	HSKN5-660-P-05AV	88.51
5/8	1.5 & up	HSKN5-660-P-05V	93.46
1	2 & up	HSKN5-660-P-08V	106.08
1-3/8	2.5 & up	HSKN5-660-P-11V	129.99
1-3/4	All	HSKN5-660-P-14V	143.23
2	All	HSKN5-660-P-16V	149.18
2-1/2	All	HSKN5-660-P-20V	217.52
3	All	HSKN5-660-P-24V	250.53
3-1/2	All	HSKN5-660-P-28V	279.71
4	All	HSKN5-660-P-32V	337.83
4-1/2	All	HSKN5-660-P-36V	362.33
5	All	HSKN5-660-P-40V	371.44
5-1/2	All	HSKN5-660-P-44V	379.74

HYDROLINE



Components	
1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

Cast Iron Piston Kits



Piston Seal Kits (6,7,8) Nitrile		
Bore Dia	Sales Part No	List Price
1	HSKR5-512-02	\$41.69
1-1/2	HSKR5-512-03	44.03
2	HSKR5-512-04	48.18
2-1/2	HSKR5-512-05	52.62
3-1/4	HSKR5-512-065	58.37
4	HSKR5-512-08	68.45
5	HSKR5-512-10	86.69
6	HSKR5-512-12	96.75
8	HSKR5-512-16	251.69
10	HSKR5-512-20	246.51
12	HSKR5-512-24	387.48
14	HSKR5-512-28	557.40

Piston Seal Kits (6,7) Cast Iron		
Bore Dia	Sales Part No	List Price
1	HSKR5-511-02	\$138.89
1.530	HSKR5-511-03	93.17
2.030	HSKR5-511-04	95.95
2.530	HSKR5-511-05	97.53
3.280	HSKR5-511-065	112.91
4.030	HSKR5-511-08	127.25
5.030	HSKR5-511-10	164.58
6.030	HSKR5-511-12	182.40
8.030	HSKR5-511-16	214.71
10.030	HSKR5-511-20	611.60
12.030	HSKR5-511-24	850.90

Piston Seal Kits (6,7,8) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1	HSKR5-512-02V	\$89.00
1-1/2	HSKR5-512-03V	93.17
2	HSKR5-512-04V	131.45
2-1/2	HSKR5-512-05V	134.37
3-1/4	HSKR5-512-065V	140.61
4	HSKR5-512-08V	180.76
5	HSKR5-512-10V	201.34
6	HSKR5-512-12V	262.73
8	HSKR5-512-16V	498.72
10	HSKR5-512-20V	845.41
12	HSKR5-512-24V	1211.08
14	HSKR5-512-28V	1321.34

End Seal Kits (7) PTFE		
Bore Dia	Sales Part No	List Price
1	HS-C221-02	\$11.37
1-1/2	HS-C221-03	12.19
2	HS-C221-04	13.27
2-1/2	HS-C221-05	14.64
3-1/4	HS-C221-065	15.81
4	HS-C221-08	17.84
5	HS-C221-10	24.14
6	HS-C221-12	31.07
8 & UP	HS-C221-STRIP*	14.51

*Sold by the foot

HYDRO-LINE

HYDRO-LINE®

Sales Part Number	Description	Rod Size	Bore Size	List Price
HN5-650-08	Bushing	1		\$55.34
HN5-650-11	Bushing	1-3/8		62.43
HN5-650-14	Bushing	1-3/4		81.08
HN5-650-24	Bushing	3		236.54
HN5-650-S-20	Bushing	2-1/2		204.51
HN5-655-05	Bushing w/ spacer	5/8		180.59
HN5-655-08	Bushing w/ spacer	1		230.63
HN5-655-11	Bushing w/ spacer	1-3/8		242.16
HN5-655-14	Bushing w/ spacer	1-3/4		279.27
HN5-655-16	Bushing w/ spacer	2		291.93
HN5-655-20	Bushing w/ spacer	2-1/2		314.28
HN5-655-24	Bushing w/ spacer	3		467.99
HN5-655-28	Bushing w/ spacer	3-1/2		548.22
HN5-655-32	Bushing w/ spacer	4		601.68
HN5-655-36	Bushing w/ spacer	4-1/2 x 2.57ht		855.76
HN5-655-36A	Bushing w/ spacer	4-1/2 x 1.88ht		855.76
HN5-655-40	Bushing w/ spacer	5		1042.93
HN5-655-44	Bushing w/ spacer	5-1/2		1123.19
HN5-665-05	Rod Gland Kit	5/8		208.02
HN5-665-05V	Rod Gland Kit	5/8		237.11
HN5-665-08	Rod Gland Kit	1		258.24
HN5-665-08V	Rod Gland Kit	1		289.78
HN5-665-11	Rod Gland Kit	1-3/8		276.24
HN5-665-11V	Rod Gland Kit	1-3/8		316.77
HN5-665-14	Rod Gland Kit	1-3/4		321.17
HN5-665-14V	Rod Gland Kit	1-3/4		360.35
HN5-665-16	Rod Gland Kit	2		334.40
HN5-665-16V	Rod Gland Kit	2		376.97
HN5-665-20	Rod Gland Kit	2-1/2		362.91
HN5-665-20V	Rod Gland Kit	2-1/2		405.43
HN5-665-24	Rod Gland Kit	3		546.73
HN5-665-24V	Rod Gland Kit	3		616.12
HN5-665-28	Rod Gland Kit	3-1/2		640.08
HN5-665-28V	Rod Gland Kit	3-1/2		697.27
HN5-665-32	Rod Gland Kit	4		709.43
HN5-665-32V	Rod Gland Kit	4		792.99
HN5-665-36	Rod Gland Kit	4-1/2		1004.14
HN5-665-36A	Rod Gland Kit	4-1/2		1004.14
HN5-665-36AV	Rod Gland Kit	4-1/2		1084.08
HN5-665-36V	Rod Gland Kit	4-1/2		1084.08
HN5-665-40	Rod Gland Kit	5		1208.26
HN5-665-40V	Rod Gland Kit	5		1312.11
HN5-665-44	Rod Gland Kit	5-1/2		1311.13
HN5-665-44V	Rod Gland Kit	5-1/2		1455.05
HN5-681-08	Rod Gland Kit	1		76.75
HN5-681-11	Rod Gland Kit	1-3/8		88.71
HN5-681-14	Rod Gland Kit	1-3/4		111.09
HN5-681-24	Rod Gland Kit	3		311.70
HN5-681-E-28	Rod Gland Kit	3-1/2		885.04
HN5-B-650-05	Gland Kit	5/8		176.58

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size	List Price
HN5-B-650-08	Gland Kit	1		\$189.21
HN5-B-650-11	Gland Kit	1-3/8		222.73
HN5-B-650-14	Gland Kit	1-3/4		257.02
HN5-B-650-16	Gland Kit	2		265.76
HN5-B-650-20	Gland Kit	2-1/2		334.79
HN5-B-650-20-NH	Bushing	2-1/2		166.50
HN5-B-650-24	Gland Kit	3		356.65
HN5-B-650-28	Gland Kit	3-1/2		632.92
HN5-B-650-32	Gland Kit	4		680.31
HN5-B-650-36	Gland Kit	4-1/2		937.32
HN5-B-650-36A	Gland Kit	4-1/2		737.45
HN5-B-650-40	Gland Kit	5		1029.84
HN5-B-650-44	Gland Kit	5-1/2		1075.12
HN5-B-650-S24	Bushing	3		279.53
HN5-B-681-20	Gland Kit	2-1/2		215.25
HN5-B-681-28	Gland Kit	3-1/2		651.64
HS-C124-03	Tube End Seals		1-1/2	15.00
HS-C124-04	Tube End Seals		2	18.21
HS-C124-05	Tube End Seals		2-1/2	21.10
HS-C124-065	Tube End Seals		3-1/4	26.68
HS-C124-08	Tube End Seals		4	28.69
HS-C124-10	Tube End Seals		5	31.56
HS-C124-12	Tube End Seals		6	32.59
HS-C124-STRIP	Tube End Seals		0.068cs x 0.140w PTFE strip (sold by the foot)	22.56
HS-C221-02	Tube End Seals		1	11.37
HS-C221-03	Tube End Seals		1-1/2	12.19
HS-C221-04	Tube End Seals		2	13.27
HS-C221-05	Tube End Seals		2-1/2	14.64
HS-C221-065	Tube End Seals		3-1/4	15.81
HS-C221-08	Tube End Seals		4	17.84
HS-C221-10	Tube End Seals		5	24.14
HS-C221-12	Tube End Seals		6	31.07
HS-C221-STRIP	Tube End Seals		0.063cs x 0.093w PTFE strip (sold by the foot)	14.51
HS-C255-03	Tube End Seals		1-1/2	16.09
HS-C255-04	Tube End Seals		2	18.60
HS-C255-05	Tube End Seals		2-1/2	19.63
HS-C255-065	Tube End Seals		3-1/4	20.22
HS-C255-08	Tube End Seals		4	22.95
HS-C255-10	Tube End Seals		5	24.43
HS-C255-12	Tube End Seals		6	25.49
HS-C255-14	Tube End Seals		7	26.68
HS-C255-16	Tube End Seals		8	31.05
HS-C408-1	Captive Cushion Adjustment Seal	0.204 ID x 0.072 CS		9.02
HS-C408-1V	Captive Cushion Adjustment Seal	0.204 ID x 0.072 CS		10.85
HS-C408-2	Captive Cushion Adjustment Seal	0.298 ID x 0.072 CS		9.02
HS-C408-2V	Captive Cushion Adjustment Seal	0.298 ID x 0.072 CS		10.85

HYDRO-LINE

HYDRO-LINE®

Sales Part Number	Description	Rod Size	Bore Size	List Price
HS-C408-3	Captive Cushion Adjustment Seal	0.420 ID x 0.072 CS		\$9.02
HS-C408-3V	Captive Cushion Adjustment Seal	0.420 ID x 0.072 CS		10.85
HS-C408-4	Captive Cushion Adjustment Seal	0.542 ID x 0.072 CS		9.02
HS-C408-4V	Captive Cushion Adjustment Seal	0.542 ID x 0.072 CS		10.85
HS-E304-03	Tube End Seals		1-1/2	3.54
HS-E304-04	Tube End Seals		2	3.71
HS-E304-065	Tube End Seals		3-1/4	4.13
HS-E304-08	Tube End Seals		4	4.66
HSKA5-512-03	Piston Kit		1-1/2	40.73
HSKA5-512-03V	Piston Kit		1-1/2	82.38
HSKA5-512-04	Piston Kit		2	43.39
HSKA5-512-04V	Piston Kit		2	85.35
HSKA5-512-05	Piston Kit		2-1/2	46.72
HSKA5-512-05V	Piston Kit		2-1/2	100.65
HSKA5-512-065	Piston Kit		3-1/4	50.39
HSKA5-512-065V	Piston Kit		3-1/4	113.51
HSKA5-512-08	Piston Kit		4	58.69
HSKA5-512-08V	Piston Kit		4	123.37
HSKA5-512-10	Piston Kit		5	73.33
HSKA5-512-10V	Piston Kit		5	144.69
HSKA5-512-12	Piston Kit		6	86.34
HSKA5-512-12V	Piston Kit		6	236.76
HSKE2-512-04	Piston Kit		2	41.31
HSKE2-512-065	Piston Kit		3-1/4	39.72
HSKE2-512-08	Piston Kit		4	69.28
HSKE2-660-05	Rod Kit	5/8		6.86
HSKE2-660-08	Rod Kit	1		7.63
HSKE2-660-11	Rod Kit	1-3/8		8.49
HSKN2-511-03	Piston Ring Kit		1-1/2	129.05
HSKN2-511-04	Piston Ring Kit		2	147.12
HSKN2-511-05	Piston Ring Kit		2-1/2	149.49
HSKN2-511-065	Piston Ring Kit		3-1/4	157.82
HSKN2-511-08	Piston Ring Kit		4	177.67
HSKN2-511-10	Piston Ring Kit		5	216.19
HSKN2-511-12	Piston Ring Kit		6	228.31
HSKN2-511-14	Piston Ring Kit		7	255.74
HSKN2-511-16	Piston Ring Kit		8	314.43
HSKN2-511-20	Piston Ring Kit		10	656.66
HSKN2-511-24	Piston Ring Kit		12	888.27
HSKN2-512-03	Piston Kit		1-1/2	51.98
HSKN2-512-03V	Piston Kit		1-1/2	101.16
HSKN2-512-04	Piston Kit		2	63.00
HSKN2-512-04V	Piston Kit		2	132.82
HSKN2-512-05	Piston Kit		2-1/2	68.00
HSKN2-512-05V	Piston Kit		2-1/2	141.20
HSKN2-512-065	Piston Kit		3-1/4	65.35
HSKN2-512-065V	Piston Kit		3-1/4	160.48

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size	List Price
HSKN2-512-08	Piston Kit		4	\$78.53
HSKN2-512-08V	Piston Kit		4	189.83
HSKN2-512-10	Piston Kit		5	100.88
HSKN2-512-10V	Piston Kit		5	210.22
HSKN2-512-12	Piston Kit		6	113.36
HSKN2-512-12V	Piston Kit		6	279.27
HSKN2-512-14	Piston Kit		7	173.11
HSKN2-512-14V	Piston Kit		7	411.39
HSKN2-512-16	Piston Kit		8	219.22
HSKN2-512-16V	Piston Kit		8	454.44
HSKN2-512-20	Piston Kit		10	246.51
HSKN2-512-20V	Piston Kit		10	845.41
HSKN2-512-24	Piston Kit		12	387.48
HSKN2-512-24V	Piston Kit		12	1253.47
HSKN25-511-03	Piston Kit		1-1/2	164.88
HSKN25-511-04	Piston Kit		2	184.50
HSKN25-511-05	Piston Kit		2-1/2	188.00
HSKN25-511-065	Piston Kit		3-1/4	197.54
HSKN25-511-08	Piston Kit		4	222.68
HSKN25-511-10	Piston Kit		5	264.51
HSKN25-511-12	Piston Kit		6	292.34
HSKN25-511-14	Piston Kit		7	292.04
HSKN25-511-16	Piston Kit		8	355.62
HSKN25-512-03	Piston Kit		1-1/2	61.09
HSKN25-512-03V	Piston Kit		1-1/2	120.27
HSKN25-512-04	Piston Kit		2	68.54
HSKN25-512-04V	Piston Kit		2	174.69
HSKN25-512-05	Piston Kit		2-1/2	71.48
HSKN25-512-05V	Piston Kit		2-1/2	188.31
HSKN25-512-065	Piston Kit		3-1/4	93.34
HSKN25-512-065V	Piston Kit		3-1/4	200.21
HSKN25-512-08	Piston Kit		4	109.88
HSKN25-512-08V	Piston Kit		4	247.18
HSKN25-512-10	Piston Kit		5	143.92
HSKN25-512-10V	Piston Kit		5	272.15
HSKN25-512-12	Piston Kit		6	163.45
HSKN25-512-12V	Piston Kit		6	403.48
HSKN25-512-14	Piston Kit		7	193.67
HSKN25-512-14V	Piston Kit		7	484.50
HSKN25-512-16	Piston Kit		8	273.62
HSKN25-512-16V	Piston Kit		8	401.49
HSKN25-665-05	Rod Kit	5/8		17.95
HSKN25-665-05V	Rod Kit	5/8		62.22
HSKN25-665-08	Rod Kit	1		18.66
HSKN25-665-08V	Rod Kit	1		64.73
HSKN25-665-11	Rod Kit	1-3/8		23.82
HSKN25-665-11V	Rod Kit	1-3/8		82.21
HSKN25-665-14	Rod Kit	1-3/4		30.10
HSKN25-665-14V	Rod Kit	1-3/4		92.29
HSKN25-665-16	Rod Kit	2		33.63

HYDRO-LINE

HYDRO-LINE®

Sales Part Number	Description	Rod Size	Bore Size	List Price
HSKN25-665-16V	Rod Kit	2		\$97.80
HSKN25-665-20	Rod Kit	2-1/2		40.22
HSKN25-665-20V	Rod Kit	2-1/2		111.28
HSKN2-661-05	Rod Kit	5/8		15.53
HSKN2-661-05V	Rod Kit	5/8		57.48
HSKN2-661-08	Rod Kit	1		15.42
HSKN2-661-08V	Rod Kit	1		61.03
HSKN2-661-11	Rod Kit	1-3/8		18.81
HSKN2-661-11V	Rod Kit	1-3/8		68.00
HSKN2-661-14	Rod Kit	1-3/4		22.09
HSKN2-661-14V	Rod Kit	1-3/4		79.72
HSKN2-661-16	Rod Kit	2		24.46
HSKN2-661-16V	Rod Kit	2		84.19
HSKN2-661-20	Rod Kit	2-1/2		36.71
HSKN2-661-20V	Rod Kit	2-1/2		93.96
HSKN5-511-03	Piston Ring Kit		1-1/2	128.20
HSKN5-511-04	Piston Ring Kit		2	139.74
HSKN5-511-05	Piston Ring Kit		2-1/2	140.87
HSKN5-511-065	Piston Ring Kit		3-1/4	145.19
HSKN5-511-08	Piston Ring Kit		4	166.36
HSKN5-511-10	Piston Ring Kit		5	202.53
HSKN5-511-12	Piston Ring Kit		6	228.31
HSKN5-511-14	Piston Ring Kit		7	269.81
HSKN5-511-16	Piston Ring Kit		8	342.39
HSKN5-512-03	Piston Kit		1-1/2	40.39
HSKN5-512-03V	Piston Kit		1-1/2	100.32
HSKN5-512-04	Piston Kit		2	55.56
HSKN5-512-04V	Piston Kit		2	138.83
HSKN5-512-05	Piston Kit		2-1/2	59.43
HSKN5-512-05V	Piston Kit		2-1/2	141.20
HSKN5-512-065	Piston Kit		3-1/4	65.35
HSKN5-512-065V	Piston Kit		3-1/4	147.47
HSKN5-512-08	Piston Kit		4	78.34
HSKN5-512-08V	Piston Kit		4	190.88
HSKN5-512-10	Piston Kit		5	95.52
HSKN5-512-10V	Piston Kit		5	224.13
HSKN5-512-12	Piston Kit		6	99.40
HSKN5-512-12V	Piston Kit		6	265.36
HSKN5-512-14	Piston Kit		7	188.00
HSKN5-512-14V	Piston Kit		7	378.71
HSKN5-512-16	Piston Kit		8	263.73
HSKN5-512-16V	Piston Kit		8	426.41
HSKN5-512-G-08	Piston Kit		4	88.03
HSKN5-512-P-05	Piston Kit		2-1/2	67.68
HSKN5-512-P-16	Piston Kit		8	338.87
HSKN5-517-065	Piston Kit		3-1/4	72.71
HSKN5-660-04	Rod Kit	1/2		12.65
HSKN5-660-04V	Rod Kit	1/2		46.56
HSKN5-660-05	Rod Kit	5/8		15.49
HSKN5-660-05V	Rod Kit	5/8		55.56

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size	List Price
HSKN5-660-08	Rod Kit	1		\$15.73
HSKN5-660-08V	Rod Kit	1		58.37
HSKN5-660-11	Rod Kit	1-3/8		19.73
HSKN5-660-11V	Rod Kit	1-3/8		76.28
HSKN5-660-14	Rod Kit	1-3/4		24.87
HSKN5-660-14V	Rod Kit	1-3/4		79.11
HSKN5-660-16	Rod Kit	2		27.87
HSKN5-660-16V	Rod Kit	2		84.29
HSKN5-660-20	Rod Kit	2-1/2		30.64
HSKN5-660-20V	Rod Kit	2-1/2		95.12
HSKN5-660-24	Rod Kit	3		31.88
HSKN5-660-24V	Rod Kit	3		124.03
HSKN5-660-28	Rod Kit	3-1/2		34.96
HSKN5-660-28V	Rod Kit	3-1/2		144.92
HSKN5-660-32	Rod Kit	4		43.87
HSKN5-660-32V	Rod Kit	4		151.44
HSKN5-660-36	Rod Kit	4-1/2		47.24
HSKN5-660-36V	Rod Kit	4-1/2		159.87
HSKN5-660-40	Rod Kit	5		69.96
HSKN5-660-40V	Rod Kit	5		192.17
HSKN5-660-44	Rod Kit	5-1/2		95.37
HSKN5-660-44V	Rod Kit	5-1/2		217.03
HSKN5-660-P-04	Rod Kit	1/2	1	21.93
HSKN5-660-P-04V	Rod Kit	1/2	1	87.93
HSKN5-660-P-05AV	Rod Kit	5/8	1	88.51
HSKN5-660-P-05V	Rod Kit	5/8	1.5 & UP	93.46
HSKN5-660-P-08	Rod Kit	1	2 & UP	24.35
HSKN5-660-P-08V	Rod Kit	1	2 & UP	106.08
HSKN5-660-P-11	Rod Kit	1-3/8		14.16
HSKN5-660-P-11V	Rod Kit	1-3/8	2.5 & UP	129.99
HSKN5-660-P-14	Rod Kit	1-3/4		30.23
HSKN5-660-P-14V	Rod Kit	1-3/4		143.23
HSKN5-660-P-16V	Rod Kit	2		149.18
HSKN5-660-P-20	Rod Kit	2-1/2		45.49
HSKN5-660-P-20V	Rod Kit	2-1/2		217.52
HSKN5-660-P-24	Rod Kit	3		25.22
HSKN5-660-P-24V	Rod Kit	3		250.53
HSKN5-660-P-28	Rod Kit	3-1/2		55.95
HSKN5-660-P-28V	Rod Kit	3-1/2		279.71
HSKN5-660-P-32V	Rod Kit	4		337.83
HSKN5-660-P-36V	Rod Kit	4-1/2		362.33
HSKN5-660-P-40V	Rod Kit	5		371.44
HSKN5-660-P-44V	Rod Kit	5-1/2		379.74
HSKN5-681-05	Rod Kit	5/8		26.06
HSKN5-681-05A	Rod Kit	5/8	1	22.77
HSKN5-681-08	Rod Kit	1		28.58
HSKN5-681-11	Rod Kit	1-3/8		31.88
HSKN5-681-14	Rod Kit	1-3/4		34.10
HSKN5-681-16	Rod Kit	2		44.39
HSKN5-681-20	Rod Kit	2-1/2		62.49

HYDRO-LINE

HYDRO-LINE®

Sales Part Number	Description	Rod Size	Bore Size	List Price
HSKN5-681-24	Rod Kit	3		\$68.13
HSKN5-681-28	Rod Kit	3-1/2		74.62
HSKN5-681-32	Rod Kit	4		87.50
HSKN5-681-36	Rod Kit	4-1/2		114.95
HSKN5-681-40	Rod Kit	5		120.41
HSKN5-681-44	Rod Kit	5-1/2		143.28
HSKN5-681-S-16	Rod Kit	2		54.56
HSKN5-681-S-20	Rod Kit	2-1/2		57.90
HSKN5-681-S-28	Rod Kit	3-1/2		113.30
HSKN5-681-S-36	Rod Kit	4-1/2		74.41
HSKN5-B-681-28	Rod Kit	3-1/2		46.37
HSKR2-662-05A	Rod Kit	5/8	1	13.60
HSKR2-662-05AV	Rod Kit	5/8	1	57.37
HSKR2-662-08	Rod Kit	1	1.5, 2, 2.5	14.84
HSKR2-662-08V	Rod Kit	1	1.5, 2, 2.5	58.53
HSKR2-662-11	Rod Kit	1-3/8	2, 2.5	18.07
HSKR2-662-11V	Rod Kit	1-3/8	2, 2.5	75.43
HSKR2-662-14	Rod Kit	1-3/4	2.5	22.22
HSKR2-662-14V	Rod Kit	1-3/4	2.5	77.50
HSKR2-662-P-05AV	Rod Kit	5/8	1	88.50
HSKR2-662-P-08V	Rod Kit	1	1.5, 2, 2.5	106.97
HSKR2-662-P-11V	Rod Kit	1-3/8	2, 2.5	128.39
HSKR2-662-P-14V	Rod Kit	1-3/4	2.5	143.79
HSKR2-681-05A	Rod Kit	5/8	1	22.77
HSKR2-681-08	Rod Kit	1	1.5, 2, 2.5	28.26
HSKR2-681-11	Rod Kit	1-3/8	2, 2.5	28.58
HSKR2-681-14	Rod Kit	1-3/4	2.5	29.86
HSKR5-511-02	Piston Ring Kit		1	138.89
HSKR5-511-03	Piston Ring Kit		1-1/2	93.17
HSKR5-511-04	Piston Ring Kit		2	95.95
HSKR5-511-05	Piston Ring Kit		2-1/2	97.53
HSKR5-511-065	Piston Ring Kit		3-1/4	112.91
HSKR5-511-08	Piston Ring Kit		4	127.25
HSKR5-511-10	Piston Ring Kit		5	164.58
HSKR5-511-12	Piston Ring Kit		6	182.40
HSKR5-511-16	Piston Ring Kit		8	214.71
HSKR5-511-20	Piston Ring Kit		10	611.60
HSKR5-511-24	Piston Ring Kit		12	850.90
HSKR5-512-02	Piston Kit		1	41.69
HSKR5-512-02V	Piston Kit		1	89.00
HSKR5-512-03	Piston Kit		1-1/2	44.03
HSKR5-512-03V	Piston Kit		1-1/2	93.17
HSKR5-512-04	Piston Kit		2	48.18
HSKR5-512-04V	Piston Kit		2	131.45
HSKR5-512-05	Piston Kit		2-1/2	52.62
HSKR5-512-05V	Piston Kit		2-1/2	134.37
HSKR5-512-065	Piston Kit		3-1/4	58.37
HSKR5-512-065V	Piston Kit		3-1/4	140.61
HSKR5-512-08	Piston Kit		4	68.45
HSKR5-512-08V	Piston Kit		4	180.76

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Sales Part Number	Description	Rod Size	Bore Size	List Price
HSKR5-512-10	Piston Kit		5	\$86.69
HSKR5-512-10V	Piston Kit		5	201.34
HSKR5-512-12	Piston Kit		6	96.75
HSKR5-512-12V	Piston Kit		6	262.73
HSKR5-512-16	Piston Kit		8	251.69
HSKR5-512-16V	Piston Kit		8	498.72
HSKR5-512-20	Piston Kit		10	246.51
HSKR5-512-20V	Piston Kit		10	845.41
HSKR5-512-24	Piston Kit		12	387.48
HSKR5-512-24V	Piston Kit		12	1211.08
HSKR5-512-28	Piston Kit		14	557.40
HSKR5-512-28V	Piston Kit		14	1321.34
HSKX-B-29427-20	Rod Kit	2-1/2		26.71
HSKX-B-31300	Piston Kit		12.030	458.78
HSKX-B-54030	Piston Kit		3	33.13
HSKX-C-53238-36	Rod Kit	4-1/2		193.73
HSKX-C-53238-56	Rod Kit	7		348.50
HSKX-E-49904	Rod Kit	7		403.94

HYDRO-LINE®

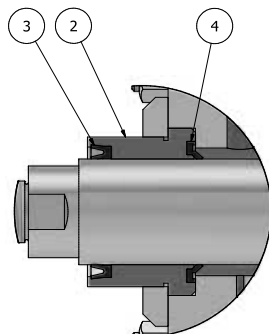
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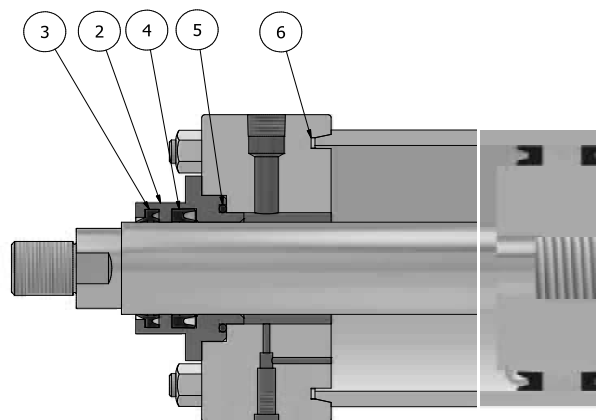
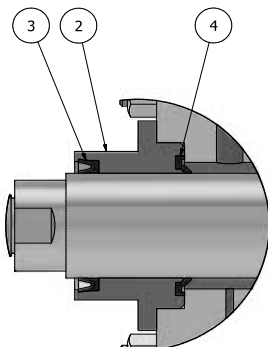
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Miller A Series

Rod Gland Kit 051-KR010



Rod Gland Kit 051-KR011



Rod Gland Kits (2,3,4) Retainer Held Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR010-063	\$113.15
1	MLR-051-KR010-100	152.29
1-3/8	MLR-051-KR010-138	173.01
1-3/4	MLR-051-KR010-175	254.12
2	MLR-051-KR010-200	297.25
2-1/2	MLR-051-KR010-250	427.73
3	MLR-051-KR010-300	558.22

Rod Gland Kits (2,3,4,5) Star Bushing,1998 Style Retainer Held, Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR074-063	\$257.51
1	MLR-051-KR074-100	320.42
1-3/8	MLR-051-KR074-138	377.75

Rod Gland Kits (2,3,4) Bolted Iron

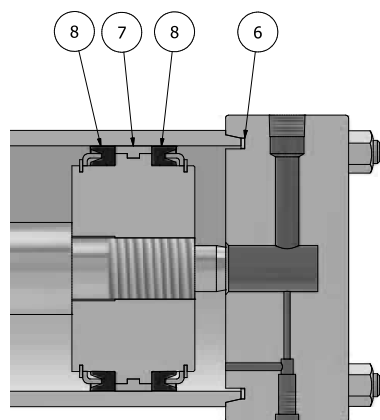
Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR011-063	\$192.20
1*	MLR-051-KR011-100	222.34
1-3/8*	MLR-051-KR011-138	240.68
1-3/4	MLR-051-KR011-175	378.53
2	MLR-051-KR011-200	428.75
2-1/2	MLR-051-KR011-250	551.34

*kit includes a retainer

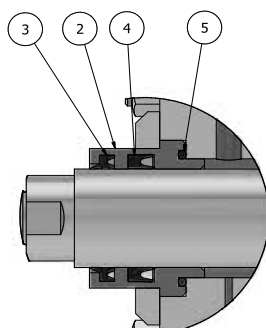
Rod Gland Kits (2,3,4,5) Star Bushing,1998 Style Bolted Iron

Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR075-063	\$345.90
1*	MLR-051-KR075-100	417.22
1-3/8*	MLR-051-KR075-138	489.02
1-3/4	MLR-051-KR075-175	529.93
2	MLR-051-KR075-200	624.22
2-1/2	MLR-051-KR075-250	857.05
3	MLR-051-KR075-300	1097.84
3-1/2	MLR-051-KR075-350	1472.46
4	MLR-051-KR075-400	1583.12
4-1/2	MLR-051-KR075-450	1703.84
5	MLR-051-KR075-500	2267.78
5-1/2	MLR-051-KR075-550	3172.94

*kit includes a retainer



Rod Gland Kit 051-KR074



Components

1	Rod Gland Retainer
2	Rod Gland
3	Rod Wiper
4	Rod Seal or Hat Packing
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Wear Ring (matl & profile vary by size)

Rod Seal Kits (3,4,5) For Star Bushing

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR080-063	\$30.60
1	MLR-051-KR080-100	54.06
1-3/8	MLR-051-KR080-138	71.83
1-3/4	MLR-051-KR080-175	89.04
2	MLR-051-KR080-200	99.95
2-1/2	MLR-051-KR080-250	119.32
3	MLR-051-KR080-300	214.93
3-1/2	MLR-051-KR080-350	230.28
4	MLR-051-KR080-400	258.71
4-1/2	MLR-051-KR080-450	292.43
5	MLR-051-KR080-500	312.59
5-1/2	MLR-051-KR080-550	488.52

Piston Seal Kits (6,7,8) January 1982 to Current

Bore Dia	Sales Part No	List Price
1-1/2	MLR-090-KB001-150	\$120.78
2	MLR-090-KB001-200	154.78
2-1/2	MLR-090-KB001-250	167.89
3-1/4	MLR-090-KB001-325	190.29
4	MLR-090-KB001-400	220.11
5	MLR-090-KB001-500	233.89
6	MLR-090-KB001-600	281.69
7	MLR-090-KB001-700	298.27
8	MLR-090-KB001-800	306.67
10	MLR-090-KB001-1000	344.05
12	MLR-090-KB001-1200	394.22

End Seal Kits (6) PTFE, Strip

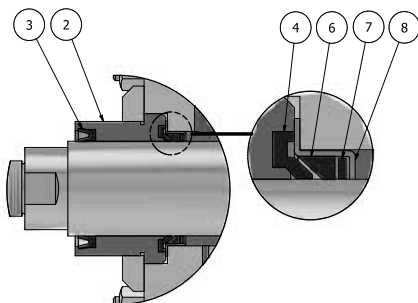
Bore	Sales Part No	List Price
1-1/2	MLR-090-ES006-150	\$11.94
2	MLR-090-ES006-200	20.82
2-1/2	MLR-090-ES006-250	21.88
3-1/4	MLR-090-ES006-325	25.32
4	MLR-090-ES006-400	31.36
5	MLR-090-ES006-500	33.61
6	MLR-090-ES006-600	41.51
7	MLR-090-ES006-700	40.95
8	MLR-090-ES006-800	51.19
10	MLR-090-ES006-1000	61.42
12	MLR-090-ES006-1200	71.68
14	MLR-090-ES006-1400	81.92

End Seal Kits (6) PTFE, Continuous

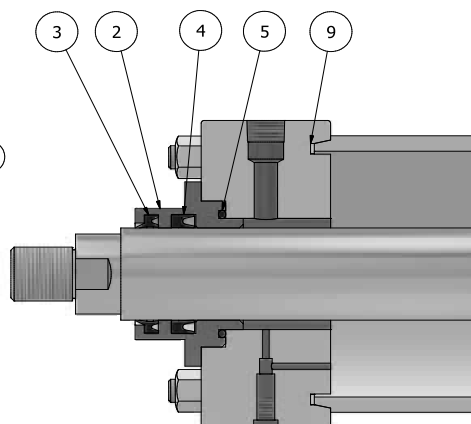
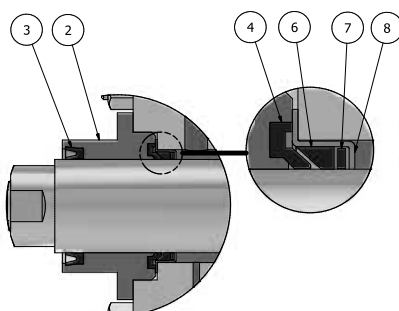
Bore	Sales Part No	List Price
1-1/2	MLR-090-ES009-150	\$12.68
2	MLR-090-ES009-200	23.14
2-1/2	MLR-090-ES009-250	23.23
3-1/4	MLR-090-ES009-325	23.42
4	MLR-090-ES009-400	34.67
5	MLR-090-ES009-500	43.66
6	MLR-090-ES009-600	54.38
7	MLR-090-ES009-700	68.28
8	MLR-090-ES009-800	84.99
10	MLR-090-ES009-1000	101.37
12	MLR-090-ES009-1200	112.83
14	MLR-090-ES009-1400	111.99

Miller J Series

051-KR014 Rod Gland Kits



051-KR015 Rod Gland Kits



Rod Gland Kits (2,3,4,6,7,8) Retainer Held Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR014-063	\$202.75
1	MLR-051-KR014-100	249.87
1-3/8	MLR-051-KR014-138	307.16
1-3/4	MLR-051-KR014-175	416.15
2	MLR-051-KR014-200	502.14
2-1/2	MLR-051-KR014-250	618.80
3	MLR-051-KR014-300	817.39

Rod Gland Kits (2,3,4,5) Star Bushing, 1998 Style Retainer Held, Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR074-063	\$257.51
1	MLR-051-KR074-100	320.42
1-3/8	MLR-051-KR074-138	377.75

Rod Gland Kits (1*,2,3,4,6,7,8) Bolted Iron

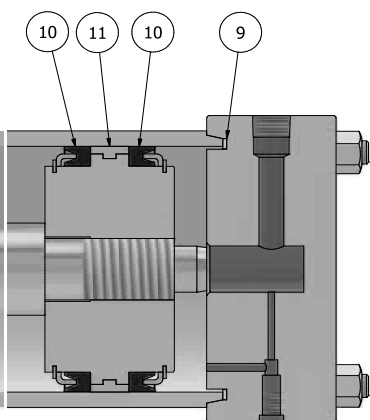
Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR015-063	\$250.58
1*	MLR-051-KR015-100	301.65
1-3/8*	MLR-051-KR015-138	373.51
1-3/4	MLR-051-KR015-175	475.37
2	MLR-051-KR015-200	558.85
2-1/2	MLR-051-KR015-250	722.61
3	MLR-051-KR015-300	902.36
*this sized kit includes a retainer		

Rod Gland Kits (1*,2,3,4,5) Star Bushing, 1998 Style Bolted, Iron

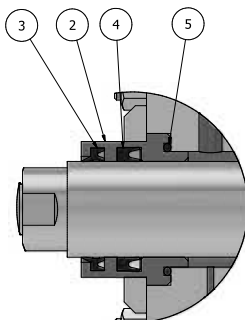
Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR075-063	\$345.90
1*	MLR-051-KR075-100	417.22
1-3/8*	MLR-051-KR075-138	489.02
1-3/4	MLR-051-KR075-175	529.93
2	MLR-051-KR075-200	624.22
2-1/2	MLR-051-KR075-250	857.05
3	MLR-051-KR075-300	1097.84
3-1/2	MLR-051-KR075-350	1472.46
4	MLR-051-KR075-400	1583.12
4-1/2	MLR-051-KR075-450	1703.84
5	MLR-051-KR075-500	2267.78
5-1/2	MLR-051-KR075-550	3172.94
*this sized kit includes a retainer		

Rod Seal Cage Assembly (3,4,6,7,8) PTFE

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR012-063	\$114.12
1	MLR-051-KR012-100	136.59
1-3/8	MLR-051-KR012-138	169.16
1-3/4	MLR-051-KR012-175	205.47
2	MLR-051-KR012-200	239.90
2-1/2	MLR-051-KR012-250	298.66
3	MLR-051-KR012-300	399.86



051-KR074 Rod Gland Kits



Components

1	Rod Gland Retainer
2	Rod Gland
3	Rod Wiper
4	Rod Seal or Hat Packing
5	Head Seal
6	Pressure Ring
7	Wave Spring
8	Cage
9	End Seal
10	Piston Seal
11	Piston Wear Ring (matl varies by size)



Rod Seal Kits (3,4,5) For Star Bushing

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR080-063	\$30.60
1	MLR-051-KR080-100	54.06
1-3/8	MLR-051-KR080-138	71.83
1-3/4	MLR-051-KR080-175	89.04
2	MLR-051-KR080-200	99.95
2-1/2	MLR-051-KR080-250	119.32
3	MLR-051-KR080-300	214.93
3-1/2	MLR-051-KR080-350	230.28
4	MLR-051-KR080-400	258.71
4-1/2	MLR-051-KR080-450	292.43
5	MLR-051-KR080-500	312.59
5-1/2	MLR-051-KR080-550	488.52

Piston Seal Kits (9,10,11) January 1982 to Current

Bore Dia	Sales Part No	List Price
1-1/2	MLR-091-KB001-150	\$139.05
2	MLR-091-KB001-200	139.83
2-1/2	MLR-091-KB001-250	162.84
3-1/4	MLR-091-KB001-325	213.59
4	MLR-091-KB001-400	235.00
5	MLR-091-KB001-500	330.68
6	MLR-091-KB001-600	353.33
7	MLR-091-KB001-700	364.09
8	MLR-091-KB001-800	392.19
10	MLR-091-KB001-1000	310.54
12	MLR-091-KB001-1200	708.41

End Seal Kits (9) PTFE, Strip

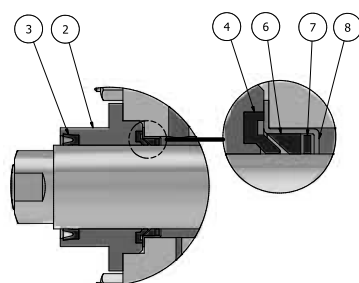
Bore	Sales Part No	List Price
1-1/2	MLR-090-ES006-150	\$11.94
2	MLR-090-ES006-200	20.82
2-1/2	MLR-090-ES006-250	21.88
3-1/4	MLR-090-ES006-325	25.32
4	MLR-090-ES006-400	31.36
5	MLR-090-ES006-500	33.61
6	MLR-090-ES006-600	41.51
7	MLR-090-ES006-700	40.95
8	MLR-090-ES006-800	51.19
10	MLR-090-ES006-1000	61.42
12	MLR-090-ES006-1200	71.68
14	MLR-090-ES006-1400	81.92

End Seal Kits (9) PTFE, Continuous

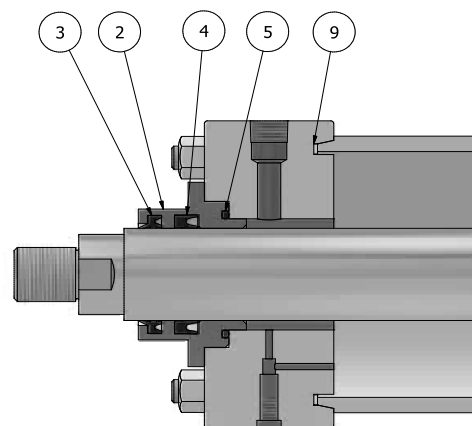
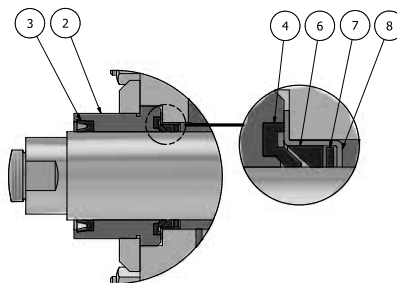
Bore	Sales Part No	List Price
1-1/2	MLR-090-ES009-150	\$12.68
2	MLR-090-ES009-200	23.14
2-1/2	MLR-090-ES009-250	23.23
3-1/4	MLR-090-ES009-325	23.42
4	MLR-090-ES009-400	34.67
5	MLR-090-ES009-500	43.66
6	MLR-090-ES009-600	54.38
7	MLR-090-ES009-700	68.28
8	MLR-090-ES009-800	84.99
10	MLR-090-ES009-1000	101.37
12	MLR-090-ES009-1200	112.83
14	MLR-090-ES009-1400	111.99

Miller H Series

Rod Gland Kit 051-KR015



Rod Gland Kit 051-KR014



Rod Gland Kits (2,3,4,6,7,8) Retainer Held Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR014-063	\$202.75
1	MLR-051-KR014-100	249.87
1-3/8	MLR-051-KR014-138	307.16
1-3/4	MLR-051-KR014-175	416.15
2	MLR-051-KR014-200	502.14
2-1/2	MLR-051-KR014-250	618.80
3	MLR-051-KR014-300	817.39

Rod Gland Kits (2,3,4,6,7,8) Bolted Iron

Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR015-063	\$250.58
1*	MLR-051-KR015-100	301.65
1-3/8*	MLR-051-KR015-138	373.51
1-3/4	MLR-051-KR015-175	475.37
2	MLR-051-KR015-200	558.85
2-1/2	MLR-051-KR015-250	722.61
3	MLR-051-KR015-300	902.36

*this sized kit includes a retainer

Rod Seal Cage Assembly (3,4,6,7,8) PTFE

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR012-063	\$114.12
1	MLR-051-KR012-100	136.59
1-3/8	MLR-051-KR012-138	169.16
1-3/4	MLR-051-KR012-175	205.47
2	MLR-051-KR012-200	239.90
2-1/2	MLR-051-KR012-250	298.66
3	MLR-051-KR012-300	399.86

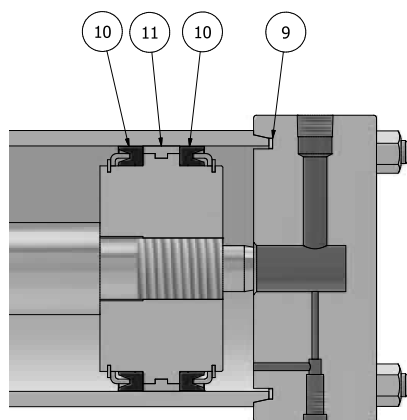
Rod Gland Kits (2,3,4,5) Star Bushing, 1998 Style Retainer Held, Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR074-063	\$257.51
1	MLR-051-KR074-100	320.42
1-3/8	MLR-051-KR074-138	377.75

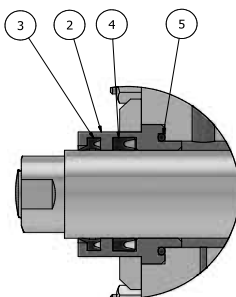
Rod Gland Kits (2,3,4,5) Star Bushing, 1998 Style Bolted, Iron

Rod Dia	Sales Part No	List Price
5/8*	MLR-051-KR075-063	\$345.90
1*	MLR-051-KR075-100	417.22
1-3/8*	MLR-051-KR075-138	489.02
1-3/4	MLR-051-KR075-175	529.93
2	MLR-051-KR075-200	624.22
2-1/2	MLR-051-KR075-250	857.05
3	MLR-051-KR075-300	1097.84
3-1/2	MLR-051-KR075-350	1472.46
4	MLR-051-KR075-400	1583.12
4-1/2	MLR-051-KR075-450	1703.84
5	MLR-051-KR075-500	2267.78
5-1/2	MLR-051-KR075-550	3172.94

*this sized kit includes a retainer



051-KR074 Rod Gland Kits



Components

2	Rod Gland
3	Rod Wiper
4	Rod Seal or Hat Packing
5	Head Seal
6	Pressure Ring
7	Wave Spring
8	Cage
9	End Seal
10	Piston Seal
11	Piston Wear Ring (matl varies by size)

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Rod Seal Kits (3,4,5) For Star Bushing

Bore Dia	Sales Part No	List Price
5/8	MLR-051-KR080-063	\$30.60
1	MLR-051-KR080-100	54.06
1-3/8	MLR-051-KR080-138	71.83
1-3/4	MLR-051-KR080-175	89.04
2	MLR-051-KR080-200	99.95
2-1/2	MLR-051-KR080-250	119.32
3	MLR-051-KR080-300	214.93
3-1/2	MLR-051-KR080-350	230.28
4	MLR-051-KR080-400	258.71
4-1/2	MLR-051-KR080-450	292.43
5	MLR-051-KR080-500	312.59
5-1/2	MLR-051-KR080-550	488.52

Piston Seal Kits (9,10*,11) January 1982 to Current *1-1/2 to 5 PTFE, 6 to 12 Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	MLR-171-KB001-150	\$190.54
2	MLR-171-KB001-200	220.73
2-1/2	MLR-171-KB001-250	265.33
3-1/4	MLR-171-KB001-325	315.49
4	MLR-171-KB001-400	435.61
5	MLR-171-KB001-500	506.02
6	MLR-171-KB001-600	563.14
7	MLR-171-KB001-700	793.65
8	MLR-171-KB001-800	990.84
10	MLR-171-KB001-1000	1161.02
12	MLR-171-KB001-1200	1314.17

End Seal Kits (9) PTFE, Strip

Bore	Sales Part No	List Price
1-1/2	MLR-090-ES006-150	\$11.94
2	MLR-090-ES006-200	20.82
2-1/2	MLR-090-ES006-250	21.88
3-1/4	MLR-090-ES006-325	25.32
4	MLR-090-ES006-400	31.36
5	MLR-090-ES006-500	33.61
6	MLR-090-ES006-600	41.51
7	MLR-090-ES006-700	40.95
8	MLR-090-ES006-800	51.19
10	MLR-090-ES006-1000	61.42
12	MLR-090-ES006-1200	71.68
14	MLR-090-ES006-1400	81.92

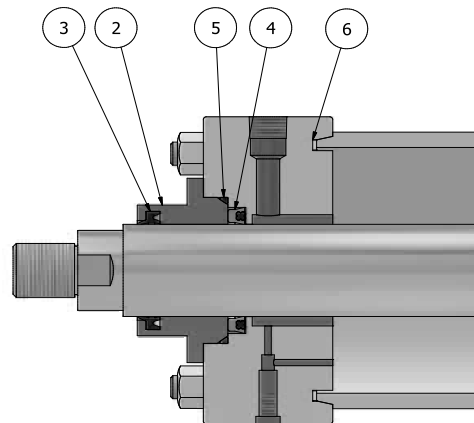
End Seal Kits (9) PTFE, Continuous

Bore	Sales Part No	List Price
1-1/2	MLR-090-ES009-150	\$12.68
2	MLR-090-ES009-200	23.14
2-1/2	MLR-090-ES009-250	23.23
3-1/4	MLR-090-ES009-325	23.42
4	MLR-090-ES009-400	34.67
5	MLR-090-ES009-500	43.66
6	MLR-090-ES009-600	54.38
7	MLR-090-ES009-700	68.28
8	MLR-090-ES009-800	84.99
10	MLR-090-ES009-1000	101.37
12	MLR-090-ES009-1200	112.83
14	MLR-090-ES009-1400	111.99

Miller HV Series (Legacy)

Components

	Components
1	Rod Gland Retainer
2	Rod Gland
3	Rod Wiper
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Wear Ring



Rod Gland Kits (2,3,4,5) Retainer Held Iron, w/o Retainer

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR064-063	\$64.98
1	MLR-051-KR064-100	76.23
1-3/8	MLR-051-KR064-138	94.94

Rod Gland Kits (1,2,3,4,5) Retainer Held Iron, w/ Retainer

Rod Dia	Sales Part No	List Price
5/8	MLR-051-KR065-063	\$152.22
1	MLR-051-KR065-100	149.48
1-3/8	MLR-051-KR065-138	198.40

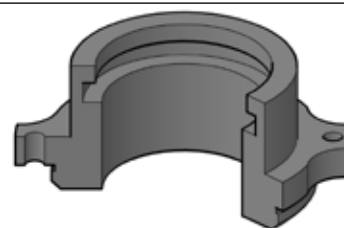
Rod Gland Kits (2,3,4,5) Bolted Iron

Rod Dia	Sales Part No	List Price
1-3/4	MLR-051-KR065-175	\$226.86
2	MLR-051-KR065-200	243.48
2-1/2	MLR-051-KR065-250	284.55
3	MLR-051-KR065-300	326.30
3-1/2	MLR-051-KR065-350	373.45



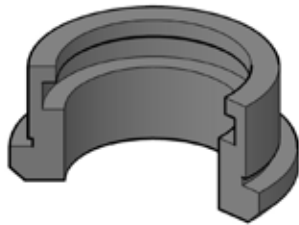
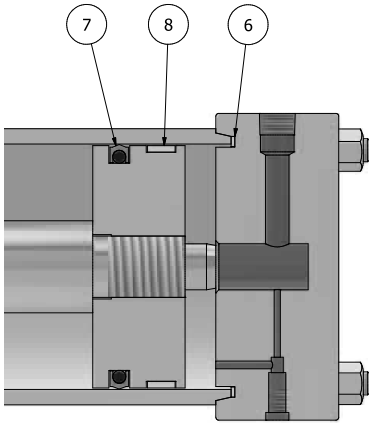
Rod Glands Retainers (1) Iron

Rod Dia	Sales Part No	List Price
5/8	MLR-050-RT005-063	\$58.64
1	MLR-050-RT005-100	65.39
1-3/8	MLR-050-RT005-138	83.57



Rod Glands (2) Iron

Rod Dia	Sales Part No	List Price
1-3/4	MLR-RG065-175	\$214.91

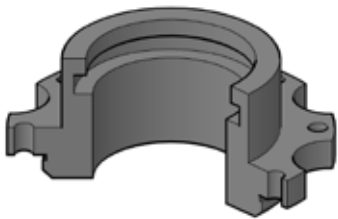


**Rod Glands (2)
Iron w/o Retainer**

Rod Dia	Sales Part No	List Price
5/8	MLR-RG065-063	\$57.35
1	MLR-RG065-100	85.39
1-3/8	MLR-RG065-138	83.51

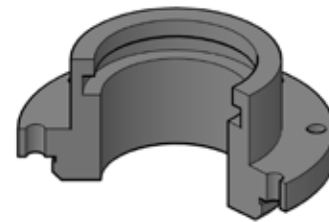
**Piston Seal Kits (6,7,8)
Urethane**

Bore Dia	Sales Part No	List Price
1-1/2	MLR-181-KB001-150	\$84.18
2	MLR-181-KB001-200	87.76
2-1/2	MLR-181-KB001-250	91.71
3-1/4	MLR-181-KB001-325	101.59
4	MLR-181-KB001-400	109.29
5	MLR-181-KB001-500	129.39
6	MLR-181-KB001-600	149.76
7	MLR-181-KB001-700	151.67
8	MLR-181-KB001-800	216.33



Rod Glands (2) Iron

Rod Dia	Sales Part No	List Price
2	MLR-RG065-200	\$232.43



Rod Glands (2)

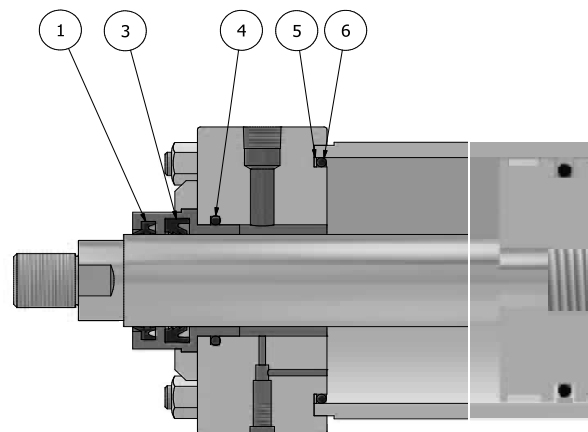
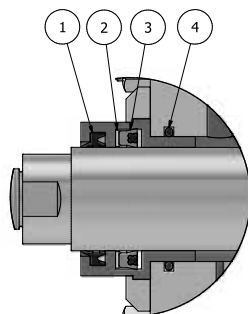
Rod Dia	Sales Part No	List Price
2-1/2	MLR-RG065-250	\$270.78
3	MLR-RG065-300	310.64
3-1/2	MLR-RG065-350	346.72

Miller HV Series (2019)

Components

1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal
5	End Seal Back-Up
6	End Seal
7	Piston Wear Ring
8	Piston Seal

Flurocarbon Rod Seal Kits

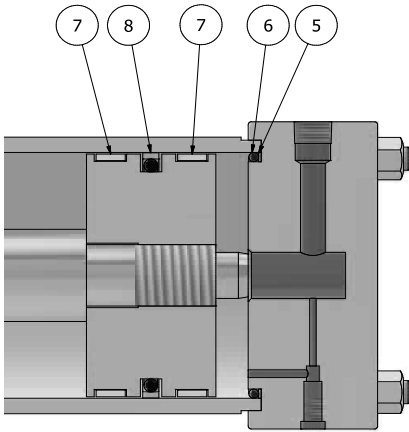


Rod Seal Kits (1,3,4) Urethane

Rod Dia	Sales Part No	List Price
5/8	MLR-H-RK110-63	\$21.88
1	MLR-H-RK110-100	27.38
1-3/8	MLR-H-RK110-138	31.01
1-3/4	MLR-H-RK110-175	33.30
2	MLR-H-RK110-200	35.51
2-1/2	MLR-H-RK110-250	43.66
3	MLR-H-RK110-300	50.32
3-1/2	MLR-H-RK110-350	69.67
4	MLR-H-RK110-400	82.85

Rod Seal Kits (1,2,3,4) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	MLR-H-RK510-63	\$27.41
1	MLR-H-RK510-100	35.70
1-3/8	MLR-H-RK510-138	52.63
1-3/4	MLR-H-RK510-175	56.61
2	MLR-H-RK510-200	77.13
2-1/2	MLR-H-RK510-250	97.65
3	MLR-H-RK510-300	115.87
3-1/2	MLR-H-RK510-350	123.66
4	MLR-H-RK510-400	142.26



Piston Seal Kits (5*,6,7,8) Urethane/Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	MLR-H-KBH01-150	\$45.33
2	MLR-H-KBH01-200	46.87
2-1/2	MLR-H-KBH01-250	60.47
3-1/4	MLR-H-KBH01-325	86.90
4	MLR-H-KBH01-400	102.72
5	MLR-H-KBH01-500	133.24
6	MLR-H-KBH01-600	159.99
7*	MLR-H-KBH01-700	233.83

*Contains an end seal back-up

Piston Seal Kits (5,6,7,8) PTFE/Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	MLR-H-KBK02-150	\$101.65
2	MLR-H-KBK02-200	101.24
2-1/2	MLR-H-KBK02-250	107.91
3-1/4	MLR-H-KBK02-325	122.35
4	MLR-H-KBK02-400	127.87
5	MLR-H-KBK02-500	168.46
6	MLR-H-KBK02-600	173.94
7	MLR-H-KBK02-700	290.51

Piston Seal Kits (5,6,7,8) PTFE/Fluorocarbon

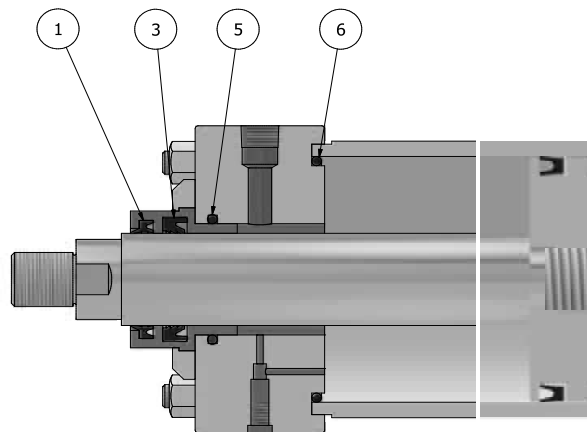
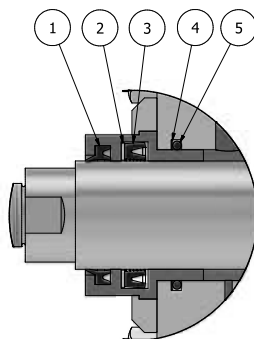
Bore Dia	Sales Part No	List Price
1-1/2	MLR-H-KBK05-150	\$95.52
2	MLR-H-KBK05-200	114.37
2-1/2	MLR-H-KBK05-250	124.46
3-1/4	MLR-H-KBK05-325	141.44
4	MLR-H-KBK05-400	144.52
5	MLR-H-KBK05-500	176.54
6	MLR-H-KBK05-600	229.29
7	MLR-H-KBK05-700	257.18

Miller HV2 Series

Components

1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up
9	Piston Wear Ring

2002 Rod Seal Kits



2002 Rod Seal Kits (1,3,4,5) Urethane/Nitrile

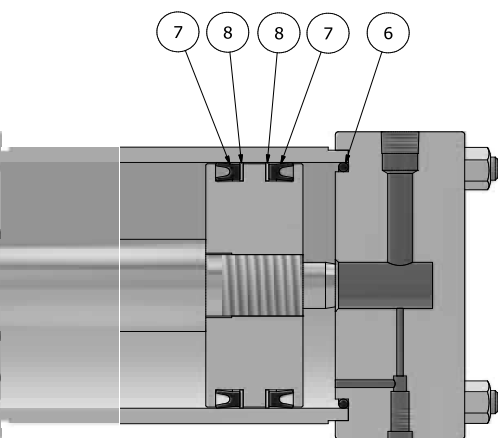
Rod Dia	Sales Part No	List Price
5/8	MLR-HV2-KR300-63	\$41.65
1	MLR-HV2-KR300-100	28.20
1-3/8	MLR-HV2-KR300-138	31.94
1-3/4	MLR-HV2-KR300-175	34.30
2	MLR-HV2-KR300-200	36.57
2-1/2	MLR-HV2-KR300-250	44.97
3	MLR-HV2-KR300-300	51.83
3-1/2	MLR-HV2-KR300-350	79.09
4	MLR-HV2-KR300-400	89.56

2002 Rod Seal Kits (1,2,3,4,5) Fluorocarbon

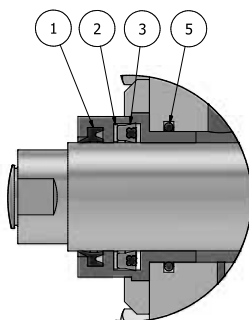
Rod Dia	Sales Part No	List Price
5/8	MLR-HV2-KR400-63	\$30.83
1	MLR-HV2-KR400-100	29.99
1-3/8	MLR-HV2-KR400-138	53.45
1-3/4	MLR-HV2-KR400-175	57.95
2	MLR-HV2-KR400-200	67.44
2-1/2	MLR-HV2-KR400-250	77.72
3	MLR-HV2-KR400-300	84.60
3-1/2	MLR-HV2-KR400-350	91.67
4	MLR-HV2-KR400-400	99.63

2002 Rod Seal Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
5/8	MLR-HV2-KR600-63	\$29.72
1	MLR-HV2-KR600-100	31.07
1-3/8	MLR-HV2-KR600-138	35.87
1-3/4	MLR-HV2-KR600-175	41.07
2	MLR-HV2-KR600-200	45.21
2-1/2	MLR-HV2-KR600-250	49.77
3	MLR-HV2-KR600-300	55.32
3-1/2	MLR-HV2-KR600-350	62.04
4	MLR-HV2-KR600-400	69.71



2004 Fluorocarbon Rod Seal Kits



2004 Rod Seal Kits (1,3,5) Urethane/Nitrile		
Rod Dia	Sales Part No	List Price
5/8	MLR-HV2-KR310-63	\$22.54
1	MLR-HV2-KR310-100	28.20
1-3/8	MLR-HV2-KR310-138	31.94
1-3/4	MLR-HV2-KR310-175	34.30
2	MLR-HV2-KR310-200	36.57
2-1/2	MLR-HV2-KR310-250	44.97
3	MLR-HV2-KR310-300	51.83
3-1/2	MLR-HV2-KR310-350	71.76
4	MLR-HV2-KR310-400	85.34

2004 Rod Seal Kits (1,2*,3,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	MLR-HV2-KR410-63	\$28.23
1	MLR-HV2-KR410-100	36.77
1-3/8*	MLR-HV2-KR410-138	54.21
1-3/4*	MLR-HV2-KR410-175	58.30
2*	MLR-HV2-KR410-200	139.64
2-1/2*	MLR-HV2-KR410-250	100.58
3*	MLR-HV2-KR410-300	119.35
3-1/2*	MLR-HV2-KR410-350	127.37
4*	MLR-HV2-KR410-400	146.53
5*	MLR-HV2-KR410-500	209.29
5-1/2*	MLR-HV2-KR410-550	251.57

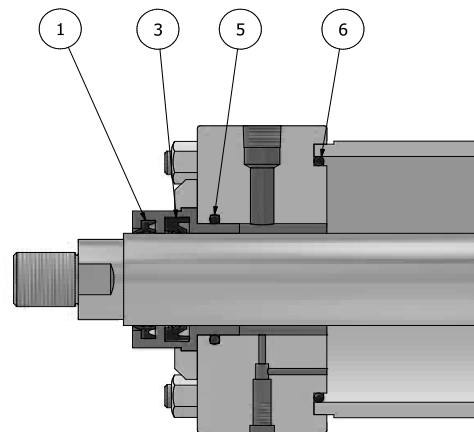
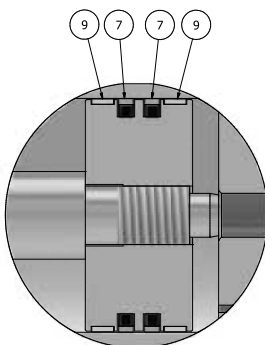
*Contains an end seal back-up

Miller HV2 Series

Components

1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up
9	Piston Wear Ring

High Load Piston Kits



Lip Seal Piston Kits (6,7,8)
Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB100-150	\$16.71
2	MLR-HV2-KB100-200	19.69
2-1/2	MLR-HV2-KB100-250	22.83
3-1/4	MLR-HV2-KB100-325	28.30
4	MLR-HV2-KB100-400	37.20
5	MLR-HV2-KB100-500	43.39
6	MLR-HV2-KB100-600	43.39

Lip Seal Piston Kits (6,7,8)
Fluorocarbon

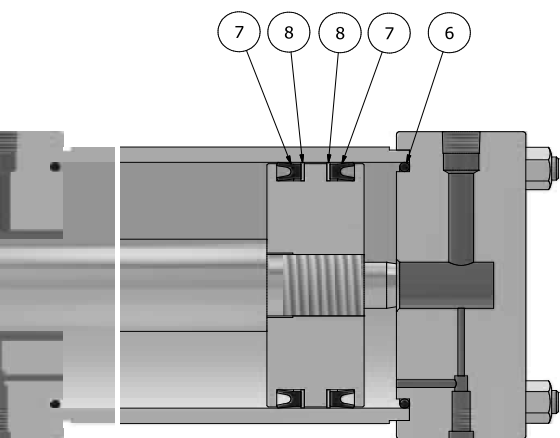
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB200-150	\$76.08
2	MLR-HV2-KB200-200	86.84
2-1/2	MLR-HV2-KB200-250	121.87
3-1/4	MLR-HV2-KB200-325	142.23
4	MLR-HV2-KB200-400	153.31
5	MLR-HV2-KB200-500	194.57
6	MLR-HV2-KB200-600	258.60

High Load Piston Seal Kits (6,7,9)
Nitrile

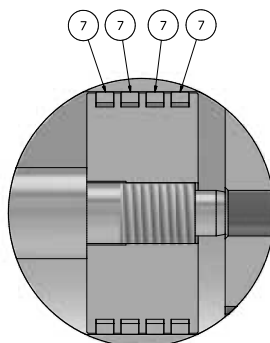
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB500-150	\$37.84
2	MLR-HV2-KB500-200	49.11
2-1/2	MLR-HV2-KB500-250	47.35
3-1/4	MLR-HV2-KB500-325	62.51
4	MLR-HV2-KB500-400	54.45
5	MLR-HV2-KB500-500	61.09
6	MLR-HV2-KB500-600	112.09

High Load Piston Seal Kits (6,7,9)
Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB600-150	\$65.60
2	MLR-HV2-KB600-200	74.27
2-1/2	MLR-HV2-KB600-250	79.85
3-1/4	MLR-HV2-KB600-325	175.85
4	MLR-HV2-KB600-400	194.59
5	MLR-HV2-KB600-500	215.33
6	MLR-HV2-KB600-600	335.76



Cast Iron Piston Seal Kits



Cast Iron Piston Seal Kits (6,7) Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB300-150	\$69.34
2	MLR-HV2-KB300-200	73.98
2-1/2	MLR-HV2-KB300-250	74.81
3-1/4	MLR-HV2-KB300-325	80.90
4	MLR-HV2-KB300-400	83.28
5	MLR-HV2-KB300-500	109.69
6	MLR-HV2-KB300-600	164.90

Cast Iron Piston Seal Kits (6,7) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-KB400-150	\$80.32
2	MLR-HV2-KB400-200	83.25
2-1/2	MLR-HV2-KB400-250	84.42
3-1/4	MLR-HV2-KB400-325	100.57
4	MLR-HV2-KB400-400	102.48
5	MLR-HV2-KB400-500	145.31
6	MLR-HV2-KB400-600	175.85

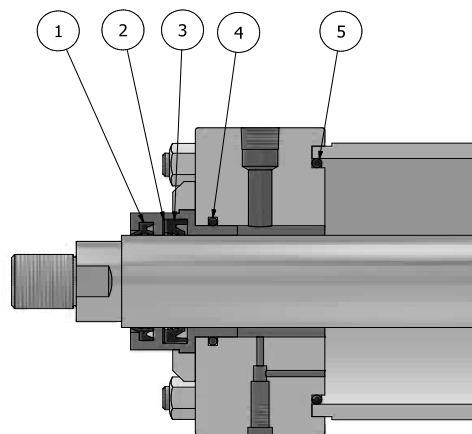
End Seal Kits (6) Nitrile		
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-ES100-150	\$10.39
2	MLR-HV2-ES100-200	10.93
2-1/2	MLR-HV2-ES100-250	11.37
3-1/4	MLR-HV2-ES100-325	12.04
4	MLR-HV2-ES100-400	12.55
5	MLR-HV2-ES100-500	14.46
6	MLR-HV2-ES100-600	14.46

End Seal Kits (6) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1-1/2	MLR-HV2-ES200-150	\$14.22
2	MLR-HV2-ES200-200	24.31
2-1/2	MLR-HV2-ES200-250	30.34
3-1/4	MLR-HV2-ES200-325	36.90
4	MLR-HV2-ES200-400	46.15
5	MLR-HV2-ES200-500	66.63
6	MLR-HV2-ES200-600	69.69

Miller JV Series

Components

1	Rod Wiper
2	Rod Seal Back-Up
3	Rod Seal
4	Head Seal
5	End Seal
6	Piston Seal
7	Piston Seal Back-Up



Rod Seal Kits (1,3,4) Urethane *1/2" kit contains nitrile u-cup and PTFE b/u

Rod Dia	Sales Part No	List Price
1/2*	MLR-JV-KR300-50	\$26.10
5/8	MLR-JV-KR300-63	26.53
1	MLR-JV-KR300-100	27.79
1-3/8	MLR-JV-KR300-138	28.50
1-3/4	MLR-JV-KR300-175	34.18
2	MLR-JV-KR300-200	40.02
2-1/2	MLR-JV-KR300-250	43.06
3	MLR-JV-KR300-300	57.05
3-1/2	MLR-JV-KR300-350	64.05
4	MLR-JV-KR300-400	75.82
4-1/2	MLR-JV-KR300-450	81.59
5	MLR-JV-KR300-500	90.69
5-1/2	MLR-JV-KR300-550	96.09

Rod Seal Kits (1,2,3,4) Fluorocarbon

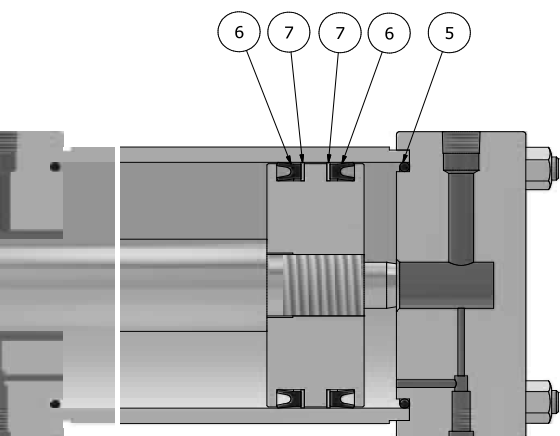
Rod Dia	Sales Part No	List Price
1/2	MLR-JV-KR400-50	\$33.52
5/8	MLR-JV-KR400-63	38.05
1	MLR-JV-KR400-100	38.16
1-3/8	MLR-JV-KR400-138	39.68
1-3/4	MLR-JV-KR400-175	42.04
2	MLR-JV-KR400-200	45.36
2-1/2	MLR-JV-KR400-250	53.86
3	MLR-JV-KR400-300	63.44
3-1/2	MLR-JV-KR400-350	82.63
4	MLR-JV-KR400-400	120.63

Lip Seal Piston Kits (5,6,7) Nitrile

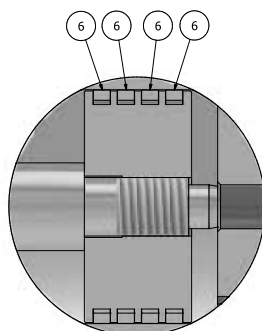
Bore Dia	Sales Part No	List Price
1	MLR-JV-KB100-100	\$8.11
1-1/2	MLR-JV-KB100-150	9.59
2	MLR-JV-KB100-200	11.28
2-1/2	MLR-JV-KB100-250	13.02
3-1/4	MLR-JV-KB100-325	16.20
4	MLR-JV-KB100-400	20.25
5	MLR-JV-KB100-500	24.81
6	MLR-JV-KB100-600	32.27
8	MLR-JV-KB100-800	93.53

Lip Seal Piston Kits (5,6,7) Fluorocarbon

Bore Dia	Sales Part No	List Price
1	MLR-JV-KB200-100	\$30.84
1-1/2	MLR-JV-KB200-150	43.50
2	MLR-JV-KB200-200	49.65
2-1/2	MLR-JV-KB200-250	69.66
3-1/4	MLR-JV-KB200-325	81.27
4	MLR-JV-KB200-400	87.58
5	MLR-JV-KB200-500	111.14
6	MLR-JV-KB200-600	147.72
8	MLR-JV-KB200-800	320.18



Cast Iron Piston Seal Kits



Cast Iron Piston Seal Kits (5,6) Nitrile		
Bore Dia	Sales Part No	List Price
1	MLR-JV-KB300-100	\$71.33
1-1/2	MLR-JV-KB300-150	39.88
2	MLR-JV-KB300-200	42.56
2-1/2	MLR-JV-KB300-250	43.04
3-1/4	MLR-JV-KB300-325	46.54
4	MLR-JV-KB300-400	47.93
5	MLR-JV-KB300-500	63.12
6	MLR-JV-KB300-600	94.90
8	MLR-JV-KB300-800	162.03

End Seal Kits (5) Nitrile		
Bore Dia	Sales Part No	List Price
1	MLR-JV-ES100-100	\$12.63
1-1/2	MLR-JV-ES100-150	9.89
2	MLR-JV-ES100-200	10.40
2-1/2	MLR-JV-ES100-250	10.83
3-1/4	MLR-JV-ES100-325	11.46
4	MLR-JV-ES100-400	11.96
5	MLR-JV-ES100-500	13.78
6	MLR-JV-ES100-600	13.78
8	MLR-JV-ES100-800	14.33

Cast Iron Piston Seal Kits (5,6) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1	MLR-JV-KB400-100	\$72.50
1-1/2	MLR-JV-KB400-150	46.22
2	MLR-JV-KB400-200	47.93
2-1/2	MLR-JV-KB400-250	48.57
3-1/4	MLR-JV-KB400-325	57.89
4	MLR-JV-KB400-400	58.98
5	MLR-JV-KB400-500	83.61
6	MLR-JV-KB400-600	101.20
8	MLR-JV-KB400-800	172.90

End Seal Kits (5) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1	MLR-JV-ES200-100	\$13.27
1-1/2	MLR-JV-ES200-150	13.55
2	MLR-JV-ES200-200	23.16
2-1/2	MLR-JV-ES200-250	28.90
3-1/4	MLR-JV-ES200-325	35.13
4	MLR-JV-ES200-400	43.96
5	MLR-JV-ES200-500	63.46
6	MLR-JV-ES200-600	66.36
8	MLR-JV-ES200-800	67.82

Hat Packing

For Hydraulic Service
PTFE



For Air & Water Service
Nitrile

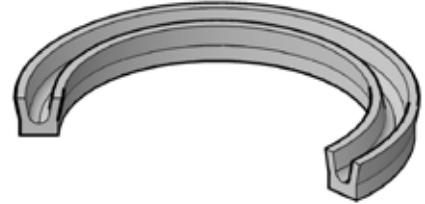


Rod Dia.	Part #	List Price	Part #	List Price
5/8"	MLR-051-RS007-063	\$14.49	MLR-051-RS014-063	\$16.80
1"	MLR-051-RS007-100	18.62	MLR-051-RS014-100	27.51
1-3/8"	MLR-051-RS007-138	21.92	MLR-051-RS014-138	17.17
1-3/4"	MLR-051-RS007-175	23.08	MLR-051-RS014-175	21.66
2"	MLR-051-RS007-200	23.88	MLR-051-RS014-200	30.12
2-1/2"	MLR-051-RS007-250	30.61	MLR-051-RS014-250	35.18
3"	MLR-051-RS007-300	42.61	MLR-051-RS014-300	38.77
3-1/2"	MLR-051-RS007-350	54.33	MLR-051-RS014-350	52.97
4"	MLR-051-RS007-400	58.46	MLR-051-RS014-400	63.01
4-1/2"	MLR-051-RS007-450	68.06	MLR-051-RS014-450	72.71
5"	MLR-051-RS007-500	73.21	MLR-051-RS014-550	92.32
5-1/2"	MLR-051-RS007-550	85.97	—	—
7"	MLR-051-RS007-700	77.48	—	—
8"	MLR-051-RS007-800	81.13	—	—
9"	MLR-051-RS007-900	81.18	—	—
10"	MLR-051-RS007-1000	158.85	—	—

PTFE Wiper “U” Style

A, C, J, M, & H Cylinders

Rod Dia.	Part #	List Price
5/8"	MLR-051-WP001-063	\$10.45
1"	MLR-051-WP001-100	12.38
1-3/8"	MLR-051-WP001-138	15.64
1-3/4"	MLR-051-WP001-175	19.02
2"	MLR-051-WP001-200	21.69
2-1/2"	MLR-051-WP001-250	37.74
3"	MLR-051-WP001-300	42.13
3-1/2"	MLR-051-WP001-350	47.60
4"	MLR-051-WP001-400	54.06
4-1/2"	MLR-051-WP001-450	70.77
5"	MLR-051-WP001-500	76.24
5-1/2"	MLR-051-WP001-550	77.55
7"	MLR-051-WP001-700	75.78
8"	MLR-051-WP001-800	67.26
9"	MLR-051-WP001-900	85.38
10"	MLR-051-WP001-1000	126.00

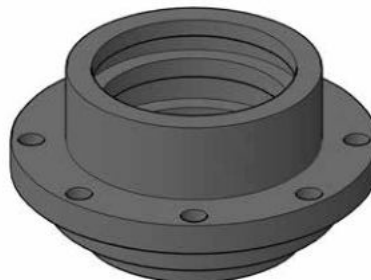


Iron Gland

Star Bushing Style A, J, & H Cylinders

Retainer Held

Bolted



Rod Dia.	Part #	List Price	Part #	List Price
5/8"	MLR-050-BU100-063	\$175.99	MLR-050-BU101-063	\$215.50
1"	MLR-050-BU100-100	215.38	MLR-050-BU101-100	264.15
1-3/8"	MLR-050-BU100-138	220.95	MLR-050-BU101-138	324.51
1-3/4"	—		MLR-050-BU101-175	326.58
2"	—		MLR-050-BU101-200	403.37
2-1/2"	—		MLR-050-BU101-250	564.96
3"	—		MLR-050-BU101-300	627.29
3-1/2"	—		MLR-050-BU101-350	305.97
4"	—		MLR-050-BU101-400	1085.91
4-1/2"	—		MLR-050-BU101-450	1175.00
5"	—		MLR-050-BU101-500	1335.14
5-1/2"	—		MLR-050-BU101-550	1463.16

Bolted bushings from: 5/8" to 1-3/4" have 4 bolt holes
 2" to 4-1/2" have 8 bolt holes
 5" to 5-1/2" have 12 bolt holes

Iron Gland

A, C, J, M, & H Cylinders

Retainer Held



Bolted



Rod Dia.	Part #	List Price	Part #	List Price
5/8"	MLR-050-BU022-063	\$92.92	MLR-050-BU024-063	\$198.07
1"	MLR-050-BU022-100	116.51	MLR-050-BU024-100	238.60
1-3/8"	MLR-050-BU022-138	141.35	MLR-050-BU024-138	307.00
1-3/4"	MLR-050-BU022-175	202.44	MLR-050-BU024-175	310.48
2"	MLR-050-BU022-200	252.06	MLR-050-BU024-200	348.49
2-1/2"	MLR-050-BU022-250	406.53	MLR-050-BU024-250	402.19
3"	MLR-050-BU022-300	408.97	MLR-050-BU024-300	477.14

Bolted bushings from: 5/8" to 1-3/4" have 4 bolt holes
 2" to 4-1/2" have 8 bolt holes
 5" to 5-1/2" have 12 bolt holes

Retainer

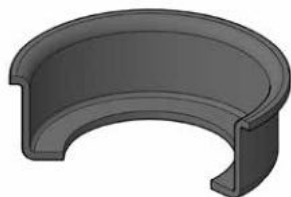
A, C, J, M, H & HV Cylinders

Rod Dia.	Part #	List Price
5/8"	MLR-050-RT005-063	\$58.64
1"	MLR-050-RT005-100	65.39
1-3/8"	MLR-050-RT005-138	83.57



Caged Assembly Components

Rod Seal Cage



Wave Spring



Bronze Pressure Ring



Rod Dia.	Part #	List Price	Part #	List Price	Part #	List Price
5/8"	MLR-051-CG001-063	\$37.74	MLR-051-WS004-063	\$27.15	MLR-051-PG001-063	\$33.50
1"	MLR-051-CG001-100	46.10	MLR-051-WS004-100	27.15	MLR-051-PG001-100	41.82
1-3/8"	MLR-051-CG001-138	49.31	MLR-051-WS004-138	27.15	MLR-051-PG001-138	62.12
1-3/4"	MLR-051-CG001-175	51.23	MLR-051-WS004-175	27.15	MLR-051-PG001-175	84.38
2"	MLR-051-CG001-200	57.20	MLR-051-WS003-200	33.02	MLR-051-PG001-200	98.66
2-1/2"	MLR-051-CG001-250	63.55	MLR-051-WS003-250	34.74	MLR-051-PG001-250	122.97
3"	MLR-051-CG001-300	88.66	MLR-051-WS003-300	41.63	MLR-051-PG001-300	172.21

Tube End Seals

Continuous PTFE

A, C, J, M, ER500, & ER3000



Bore Dia.	Part #	List Price
1-1/2"	MLR-090-ES009-150	\$12.68
2"	MLR-090-ES009-200	23.14
2-1/2"	MLR-090-ES009-250	23.23
3-1/4"	MLR-090-ES009-325	23.42
4"	MLR-090-ES009-400	34.67
5"	MLR-090-ES009-500	43.66
6"	MLR-090-ES009-600	54.38
7"	MLR-090-ES009-700	68.28
8"	MLR-090-ES009-800	84.99
10"	MLR-090-ES009-1000	101.37
12"	MLR-090-ES009-1200	112.83
14"	MLR-090-ES009-1400	111.99

H & ER6000



Part #	List Price
MLR-170-ES010-150	\$19.49
MLR-170-ES010-200	27.59
MLR-170-ES010-250	35.81
MLR-170-ES010-325	37.31
MLR-170-ES010-400	44.64
MLR-170-ES010-500	53.50
MLR-170-ES010-600	61.91
MLR-170-ES010-700	70.27
MLR-170-ES010-800	88.00
MLR-170-ES010-1000	102.16
MLR-170-ES010-1200	113.84
—	

Various Kits

Kit #	Bore	List Price
MLR-150-KB001-325	3-1/4"	\$346.12
MLR-150-KB001-500	5"	582.17

Kit Includes:

- 2 Leather Piston Cups
- 2 PTFE Tube End Seals
- 1 PTFE Follower Seal

Tube End Seals

Strip PTFE

A, C, J, M, ER500, & ER3000

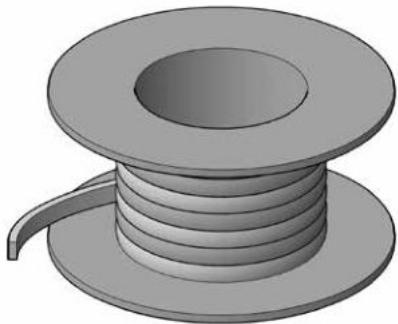
H & ER6000



Bore Dia.	Part #	List Price	Part #	List Price
1-1/2"	MLR-090-ES006-150	\$11.94	MLR-170-ES006-150	\$11.73
2"	MLR-090-ES006-200	20.82	MLR-170-ES006-200	21.38
2-1/2"	MLR-090-ES006-250	21.88	MLR-170-ES006-250	21.65
3-1/4"	MLR-090-ES006-325	25.32	MLR-170-ES006-325	22.34
4"	MLR-090-ES006-400	31.36	MLR-170-ES006-400	31.84
5"	MLR-090-ES006-500	33.61	MLR-170-ES006-500	33.52
6"	MLR-090-ES006-600	41.51	MLR-170-ES006-600	39.67
7"	MLR-090-ES006-700	40.95	MLR-170-ES006-700	40.95
8"	MLR-090-ES006-800	51.19	MLR-170-ES006-800	51.19
10"	MLR-090-ES006-1000	61.42	MLR-170-ES006-1000	61.42
12"	MLR-090-ES006-1200	71.68	MLR-170-ES006-1200	71.68
14"	MLR-090-ES006-1400	81.92	MLR-170-ES006-1400	81.92
18"	—		MLR-170-ES006-1800	102.40

PTFE Tube Seal Cord

A, C, J, M, & H Cylinders



Part #	Radial Wall	Width	List Price
MLR-008-SH001-30	.030	.070	\$184.37
Includes: 30' spool of PTFE Head Seal			
MLR-SH1-STRIP	.030	.070	11.18

Piston U-Seals

All Current Style Cylinders

Buna-N



PTFE



Bore Dia.	Part #	List Price	Part #	List Price
1-1/2"	MLR-052-PS025-150	\$27.65	MLR-052-PS017-150	\$23.82
2"	MLR-052-PS025-200	28.69	MLR-052-PS017-200	23.97
2-1/2"	MLR-052-PS025-250	30.40	MLR-052-PS017-250	28.28
3-1/4"	MLR-052-PS025-325	32.99	MLR-052-PS017-325	36.94
4"	MLR-052-PS025-400	32.72	MLR-052-PS017-400	48.99
5"	MLR-052-PS025-500	38.97	MLR-052-PS017-500	73.47
6"	MLR-052-PS025-600	49.92	MLR-052-PS017-600	83.99
7"	MLR-052-PS025-700	31.18	MLR-052-PS017-700	102.04
8"	MLR-052-PS016-800	34.02	MLR-052-PS017-800	118.87
10"	MLR-052-PS025-1000	115.35	MLR-052-PS017-1000	187.73
12"	MLR-052-PS016-1200	80.64	MLR-052-PS017-1200	251.75
14"	MLR-052-PS025-1400	224.00	MLR-052-PS017-1400	258.87
16"	MLR-052-PS025-1600	456.18	MLR-052-PS017-1600	273.97

Wear Rings

Air Service PTFE			Hydraulic Service Acetal		Hydraulic Service Bronze	
						
Bore Dia.	Part #	List Price	Part #	List Price	Part #	List Price
1-1/2"	MLR-052-WR005-150-25	\$41.87	MLR-052-WR009-150-25	\$36.20	—	—
2"	MLR-052-WR005-200-25	44.08	MLR-052-WR009-200-25	41.70	—	—
2"	—	—	MLR-052-WR009-200-31	42.34	—	—
2-1/2"	MLR-052-WR005-250-25	46.52	MLR-052-WR009-250-25	51.31	—	—
2-1/2"	—	—	MLR-052-WR009-250-38	54.45	—	—
3-1/4"	MLR-052-WR005-325-25	61.66	MLR-052-WR009-325-25	70.20	—	—
3-1/4"	—	—	MLR-052-WR009-325-50	77.91	—	—
4"	MLR-052-WR005-400-25	76.92	MLR-052-WR009-400-25	81.47	—	—
4"	—	—	MLR-052-WR009-400-63	110.13	—	—
5"	MLR-052-WR005-500-25	96.57	—	—	—	—
5"	—	—	MLR-052-WR009-500-75	218.98	—	—
6"	MLR-052-WR005-600-25	115.46	—	—	—	—
6"	—	—	MLR-052-WR009-600-75	283.63	—	—
7"	MLR-052-WR005-700-38	78.85	—	—	—	—
7"	—	—	—	—	MLR-052-WR008-700-75	\$291.93
8"	MLR-052-WR005-800-38	111.72	—	—	—	—
8"	—	—	—	—	MLR-052-WR008-800-125	390.86
10"	MLR-052-WR005-1000-38	118.30	—	—	—	—
10"	—	—	—	—	MLR-052-WR008-1000-125	456.02
12"	MLR-052-WR005-1200-38	148.98	—	—	—	—
12"	—	—	—	—	MLR-052-WR008-1200-125	499.23
16"	MLR-052-WR005-1600-50	232.02	—	—	—	—
18"	MLR-052-WR005-1800-50	240.02	—	—	—	—
20"	MLR-052-WR005-2000-50	278.43	—	—	—	—

Piston Cups

**A, JW, & HW Cylinders
From 1956-1977
Nitrile**



**J & H Cylinders
From 1956-1977
Leather**



**AJ, J, & H Cylinders
From 1956-1977
PTFE**



Bore Dia.	Part #	List Price	Part #	List Price	Part #	List Price
1-1/2"	MLR-052-PS001-150	\$18.60	MLR-052-PS003-150	\$29.78	MLR-052-PS006-150	\$52.83
2"	MLR-052-PS001-200	19.87	MLR-052-PS003-200	36.52	MLR-052-PS006-200	70.41
2-1/2"	MLR-052-PS001-250	27.17	MLR-052-PS003-250	48.94	MLR-052-PS006-250	74.21
3-1/4"	MLR-052-PS001-325	42.40	MLR-052-PS003-325	76.86	MLR-052-PS006-325	66.87
4"	MLR-052-PS001-400	49.46	MLR-052-PS003-400	94.65	MLR-052-PS006-400	82.59
5"	MLR-052-PS001-500	64.09	MLR-052-PS003-500	131.65	MLR-052-PS006-500	123.66
6"	MLR-052-PS001-600	72.88	MLR-052-PS003-600	178.45	MLR-052-PS006-600	149.46
7"	—	—	—	—	MLR-052-PS006-700	342.19
8"	MLR-052-PS001-800	83.28	—	—	MLR-052-PS006-800	192.60
10"	MLR-052-PS001-1000	99.48	—	—	MLR-052-PS006-1000	248.48
12"	MLR-052-PS001-1200	303.18	—	—	MLR-052-PS006-1200	331.41

PTFE Follower Seals

**J & H Cylinders
For 3 Piece Pistons From 1956-1977**



Part #	Bore		I.D.	Radial Wall	Width	List Price
	H	J				
MLR-052-FS001-44	1-1/2	1-1/2, 2, 2-1/2	7/16	0.070	0.070	\$14.49
MLR-052-FS001-75	2, 2-1/2	3-1/4, 4, 5	3/4	0.070	0.070	13.82
MLR-052-FS001-100	3-1/4	6, 7, 8	1	0.142	0.142	21.44
MLR-052-FS001-125	4	10	1-1/4	0.142	0.142	23.82
MLR-052-FS001-150	5	12	1-1/2	0.142	0.142	30.12
MLR-052-FS001-188	6	14	1-7/8	0.142	0.142	33.63
MLR-052-FS001-250	8	-	2-1/2	0.142	0.142	34.78

MILLER

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-050-BU022-063	Iron Gland	5/8					\$92.92
MLR-050-BU022-100	Iron Gland	1					116.51
MLR-050-BU022-138	Iron Gland	1-3/8					141.35
MLR-050-BU022-175	Iron Gland	1-3/4					202.44
MLR-050-BU022-200	Iron Gland	2					252.06
MLR-050-BU022-250	Iron Gland	2-1/2					406.53
MLR-050-BU022-300	Iron Gland	3					408.97
MLR-050-BU024-063	Iron Gland	5/8					198.07
MLR-050-BU024-100	Iron Gland	1					238.60
MLR-050-BU024-138	Iron Gland	1-3/8					307.00
MLR-050-BU024-175	Iron Gland	1-3/4					310.48
MLR-050-BU024-200	Iron Gland	2					348.49
MLR-050-BU024-250	Iron Gland	2-1/2					402.19
MLR-050-BU024-300	Iron Gland	3					477.14
MLR-050-BU100-063	Iron Gland	5/8					175.99
MLR-050-BU100-100	Iron Gland	1					215.38
MLR-050-BU100-138	Iron Gland	1-3/8					220.95
MLR-050-BU101-063	Iron Gland	5/8					215.50
MLR-050-BU101-100	Iron Gland	1					264.15
MLR-050-BU101-138	Iron Gland	1-3/8					324.51
MLR-050-BU101-175	Iron Gland	1-3/4					326.58
MLR-050-BU101-200	Iron Gland	2					403.37
MLR-050-BU101-250	Iron Gland	2-1/2					564.96
MLR-050-BU101-300	Iron Gland	3					627.29
MLR-050-BU101-350	Iron Gland	3-1/2					305.97
MLR-050-BU101-400	Iron Gland	4					1085.91
MLR-050-BU101-450	Iron Gland	4-1/2					1175.00
MLR-050-BU101-500	Iron Gland	5					1335.14
MLR-050-BU101-550	Iron Gland	5-1/2					1463.16
MLR-050-RT005-063	Retainer	5/8					58.64
MLR-050-RT005-100	Retainer	1					65.39
MLR-050-RT005-138	Retainer	1-3/8					83.57
MLR-051-CG001-063	Rod Seal Cage	5/8					37.74
MLR-051-CG001-100	Rod Seal Cage	1					46.10
MLR-051-CG001-138	Rod Seal Cage	1-3/8					49.31
MLR-051-CG001-175	Rod Seal Cage	1-3/4					51.23
MLR-051-CG001-200	Rod Seal Cage	2					57.20
MLR-051-CG001-250	Rod Seal Cage	2-1/2					63.55
MLR-051-CG001-300	Rod Seal Cage	3					88.66
MLR-051-KR010-063	Rod Kit - Gland	5/8					113.15
MLR-051-KR010-100	Rod Kit - Gland	1					152.29
MLR-051-KR010-138	Rod Kit - Gland	1-3/8					173.01
MLR-051-KR010-175	Rod Kit - Gland	1-3/4					254.12
MLR-051-KR010-200	Rod Kit - Gland	2					297.25
MLR-051-KR010-250	Rod Kit - Gland	2-1/2					427.73
MLR-051-KR010-300	Rod Kit - Gland	3					558.22
MLR-051-KR011-063	Rod Kit - Gland	5/8					192.20
MLR-051-KR011-100	Rod Kit - Gland	1					222.34
MLR-051-KR011-138	Rod Kit - Gland	1-3/8					240.68
MLR-051-KR011-175	Rod Kit - Gland	1-3/4					378.53

MILLER

MILLER

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-051-KR011-200	Rod Kit - Gland	2					\$428.75
MLR-051-KR011-250	Rod Kit - Gland	2-1/2					551.34
MLR-051-KR011-300	Rod Kit - Gland	3					661.69
MLR-051-KR012-063	Rod Kit - Cage Assembly	5/8					114.12
MLR-051-KR012-100	Rod Kit - Cage Assembly	1					136.59
MLR-051-KR012-138	Rod Kit - Cage Assembly	1-3/8					169.16
MLR-051-KR012-175	Rod Kit - Cage Assembly	1-3/4					205.47
MLR-051-KR012-200	Rod Kit - Cage Assembly	2					239.90
MLR-051-KR012-250	Rod Kit - Cage Assembly	2-1/2					298.66
MLR-051-KR012-300	Rod Kit - Cage Assembly	3					399.86
MLR-051-KR014-063	Rod Kit - Gland	5/8					202.75
MLR-051-KR014-100	Rod Kit - Gland	1					249.87
MLR-051-KR014-138	Rod Kit - Gland	1-3/8					307.16
MLR-051-KR014-175	Rod Kit - Gland	1-3/4					416.15
MLR-051-KR014-200	Rod Kit - Gland	2					502.14
MLR-051-KR014-250	Rod Kit - Gland	2-1/2					618.80
MLR-051-KR014-300	Rod Kit - Gland	3					817.39
MLR-051-KR015-063	Rod Kit - Gland	5/8					250.58
MLR-051-KR015-100	Rod Kit - Gland	1					301.65
MLR-051-KR015-138	Rod Kit - Gland	1-3/8					373.51
MLR-051-KR015-175	Rod Kit - Gland	1-3/4					475.37
MLR-051-KR015-200	Rod Kit - Gland	2					558.85
MLR-051-KR015-250	Rod Kit - Gland	2-1/2					722.61
MLR-051-KR015-300	Rod Kit - Gland	3					902.36
MLR-051-KR024-063	Rod Kit - Cage Assembly	5/8					103.47
MLR-051-KR024-100	Rod Kit - Cage Assembly	1					123.98
MLR-051-KR024-138	Rod Kit - Cage Assembly	1-3/8					153.22
MLR-051-KR024-175	Rod Kit - Cage Assembly	1-3/4					186.08
MLR-051-KR024-200	Rod Kit - Cage Assembly	2					217.74
MLR-051-KR024-250	Rod Kit - Cage Assembly	2-1/2					260.11
MLR-051-KR024-300	Rod Kit - Cage Assembly	3					356.82
MLR-051-KR064-063	Rod Kit - Gland	5/8					64.98
MLR-051-KR064-100	Rod Kit - Gland	1					76.23
MLR-051-KR064-138	Rod Kit - Gland	1-3/8					94.94
MLR-051-KR065-063	Rod Kit - Gland	5/8					152.22
MLR-051-KR065-100	Rod Kit - Gland	1					149.48
MLR-051-KR065-138	Rod Kit - Gland	1-3/8					198.40
MLR-051-KR065-175	Rod Kit - Gland	1-3/4					226.86
MLR-051-KR065-200	Rod Kit - Gland	2					243.48
MLR-051-KR065-250	Rod Kit - Gland	2-1/2					284.55
MLR-051-KR065-300	Rod Kit - Gland	3					326.30
MLR-051-KR065-350	Rod Kit - Gland	3-1/2					373.45
MLR-051-KR074-063	Rod Kit - Gland	5/8					257.51
MLR-051-KR074-100	Rod Kit - Gland	1					320.42
MLR-051-KR074-138	Rod Kit - Gland	1-3/8					377.75
MLR-051-KR075-063	Rod Kit - Gland	5/8					345.90
MLR-051-KR075-100	Rod Kit - Gland	1					417.22
MLR-051-KR075-138	Rod Kit - Gland	1-3/8					489.02
MLR-051-KR075-175	Rod Kit - Gland	1-3/4					529.93
MLR-051-KR075-200	Rod Kit - Gland	2					624.22

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-051-KR075-250	Rod Kit - Gland	2-1/2					\$857.05
MLR-051-KR075-300	Rod Kit - Gland	3					1097.84
MLR-051-KR075-350	Rod Kit - Gland	3-1/2					1472.46
MLR-051-KR075-400	Rod Kit - Gland	4					1583.12
MLR-051-KR075-450	Rod Kit - Gland	4-1/2					1703.84
MLR-051-KR075-500	Rod Kit - Gland	5					2267.78
MLR-051-KR075-550	Rod Kit - Gland	5-1/2					3172.94
MLR-051-KR080-063	Rod Kit - Seal	5/8					30.60
MLR-051-KR080-100	Rod Kit - Seal	1					54.06
MLR-051-KR080-138	Rod Kit - Seal	1-3/8					71.83
MLR-051-KR080-175	Rod Kit - Seal	1-3/4					89.04
MLR-051-KR080-200	Rod Kit - Seal	2					99.95
MLR-051-KR080-250	Rod Kit - Seal	2-1/2					119.32
MLR-051-KR080-300	Rod Kit - Seal	3					214.93
MLR-051-KR080-350	Rod Kit - Seal	3-1/2					230.28
MLR-051-KR080-400	Rod Kit - Seal	4					258.71
MLR-051-KR080-450	Rod Kit - Seal	4-1/2					292.43
MLR-051-KR080-500	Rod Kit - Seal	5					312.59
MLR-051-KR080-550	Rod Kit - Seal	5-1/2					488.52
MLR-051-PG001-063	Bronze Pressure Ring	5/8					33.50
MLR-051-PG001-100	Bronze Pressure Ring	1					41.82
MLR-051-PG001-138	Bronze Pressure Ring	1-3/8					62.12
MLR-051-PG001-175	Bronze Pressure Ring	1-3/4					84.38
MLR-051-PG001-200	Bronze Pressure Ring	2					98.66
MLR-051-PG001-250	Bronze Pressure Ring	2-1/2					122.97
MLR-051-PG001-300	Bronze Pressure Ring	3					172.21
MLR-051-RS007-063	Hat Packing - PTFE	5/8					14.49
MLR-051-RS007-100	Hat Packing - PTFE	1					18.62
MLR-051-RS007-1000	Hat Packing - PTFE	10					158.85
MLR-051-RS007-138	Hat Packing - PTFE	1-3/8					21.92
MLR-051-RS007-175	Hat Packing - PTFE	1-3/4					23.08
MLR-051-RS007-200	Hat Packing - PTFE	2					23.88
MLR-051-RS007-250	Hat Packing - PTFE	2-1/2					30.61
MLR-051-RS007-300	Hat Packing - PTFE	3					42.61
MLR-051-RS007-350	Hat Packing - PTFE	3-1/2					54.33
MLR-051-RS007-400	Hat Packing - PTFE	4					58.46
MLR-051-RS007-450	Hat Packing - PTFE	4-1/2					68.06
MLR-051-RS007-500	Hat Packing - PTFE	5					73.21
MLR-051-RS007-550	Hat Packing - PTFE	5-1/2					85.97
MLR-051-RS007-700	Hat Packing - PTFE	7					77.48
MLR-051-RS007-800	Hat Packing - PTFE	8					81.13
MLR-051-RS007-900	Hat Packing - PTFE	9					81.18
MLR-051-RS014-063	Hat Packing - Nitrile	5/8					16.80
MLR-051-RS014-100	Hat Packing - Nitrile	1					27.51
MLR-051-RS014-138	Hat Packing - Nitrile	1-3/8					17.17
MLR-051-RS014-175	Hat Packing - Nitrile	1-3/4					21.66
MLR-051-RS014-200	Hat Packing - Nitrile	2					30.12
MLR-051-RS014-250	Hat Packing - Nitrile	2-1/2					35.18
MLR-051-RS014-300	Hat Packing - Nitrile	3					38.77
MLR-051-RS014-350	Hat Packing - Nitrile	3-1/2					52.97

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-051-RS014-400	Hat Packing - Nitrile	4					\$63.01
MLR-051-RS014-450	Hat Packing - Nitrile	4-1/2					72.71
MLR-051-RS014-550	Hat Packing - Nitrile	5-1/2					92.32
MLR-051-WP001-063	U' Style Wiper - PTFE	5/8					10.45
MLR-051-WP001-100	U' Style Wiper - PTFE	1					12.38
MLR-051-WP001-1000	U' Style Wiper - PTFE	10					126.00
MLR-051-WP001-138	U' Style Wiper - PTFE	1-3/8					15.64
MLR-051-WP001-175	U' Style Wiper - PTFE	1-3/4					19.02
MLR-051-WP001-200	U' Style Wiper - PTFE	2					21.69
MLR-051-WP001-250	U' Style Wiper - PTFE	2-1/2					37.74
MLR-051-WP001-300	U' Style Wiper - PTFE	3					42.13
MLR-051-WP001-350	U' Style Wiper - PTFE	3-1/2					47.60
MLR-051-WP001-400	U' Style Wiper - PTFE	4					54.06
MLR-051-WP001-450	U' Style Wiper - PTFE	4-1/2					70.77
MLR-051-WP001-500	U' Style Wiper - PTFE	5					76.24
MLR-051-WP001-550	U' Style Wiper - PTFE	5-1/2					77.55
MLR-051-WP001-700	U' Style Wiper - PTFE	7					75.78
MLR-051-WP001-800	U' Style Wiper - PTFE	8					67.26
MLR-051-WP001-900	U' Style Wiper - PTFE	9					85.38
MLR-051-WS003-200	Wave Spring	2					33.02
MLR-051-WS003-250	Wave Spring	2-1/2					34.74
MLR-051-WS003-300	Wave Spring	3					41.63
MLR-051-WS004-063	Wave Spring	5/8					27.15
MLR-051-WS004-100	Wave Spring	1					27.15
MLR-051-WS004-138	Wave Spring	1-3/8					27.15
MLR-051-WS004-175	Wave Spring	1-3/4					27.15
MLR-052-FS001-100	Follower Seal			1	0.142	0.142	21.44
MLR-052-FS001-125	Follower Seal			1-1/4	0.142	0.142	23.82
MLR-052-FS001-150	Follower Seal			1-1/2	0.142	0.142	30.12
MLR-052-FS001-188	Follower Seal			1-7/8	0.142	0.142	33.63
MLR-052-FS001-250	Follower Seal			2-1/2	0.142	0.142	34.78
MLR-052-FS001-44	Follower Seal			7/16	0.070	0.070	14.49
MLR-052-FS001-75	Follower Seal			3/4	0.070	0.070	13.82
MLR-052-PS001-1000	Piston Cup - Nitrile		10				99.48
MLR-052-PS001-1200	Piston Cup - Nitrile		12				303.18
MLR-052-PS001-150	Piston Cup - Nitrile		1-1/2				18.60
MLR-052-PS001-200	Piston Cup - Nitrile		2				19.87
MLR-052-PS001-250	Piston Cup - Nitrile		2-1/2				27.17
MLR-052-PS001-325	Piston Cup - Nitrile		3-1/4				42.40
MLR-052-PS001-400	Piston Cup - Nitrile		4				49.46
MLR-052-PS001-500	Piston Cup - Nitrile		5				64.09
MLR-052-PS001-600	Piston Cup - Nitrile		6				72.88
MLR-052-PS001-800	Piston Cup - Nitrile		8				83.28
MLR-052-PS003-150	Piston Cup - Leather		1-1/2				29.78
MLR-052-PS003-200	Piston Cup - Leather		2				36.52
MLR-052-PS003-250	Piston Cup - Leather		2-1/2				48.94
MLR-052-PS003-325	Piston Cup - Leather		3-1/4				76.86
MLR-052-PS003-400	Piston Cup - Leather		4				94.65
MLR-052-PS003-500	Piston Cup - Leather		5				131.65
MLR-052-PS003-600	Piston Cup - Leather		6				178.45

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-052-PS006-1000	Piston Cup - PTFE		10				\$248.48
MLR-052-PS006-1200	Piston Cup - PTFE		12				331.41
MLR-052-PS006-150	Piston Cup - PTFE		1-1/2				52.83
MLR-052-PS006-200	Piston Cup - PTFE		2				70.41
MLR-052-PS006-250	Piston Cup - PTFE		2-1/2				74.21
MLR-052-PS006-325	Piston Cup - PTFE		3-1/4				66.87
MLR-052-PS006-400	Piston Cup - PTFE		4				82.59
MLR-052-PS006-500	Piston Cup - PTFE		5				123.66
MLR-052-PS006-600	Piston Cup - PTFE		6				149.46
MLR-052-PS006-700	Piston Cup - PTFE		7				342.19
MLR-052-PS006-800	Piston Cup - PTFE		8				192.60
MLR-052-PS016-1200	Piston U-seal - Nitrile		12				80.64
MLR-052-PS016-800	Piston U-seal - Nitrile		8				34.02
MLR-052-PS017-1000	Piston U-seal - PTFE		10				187.73
MLR-052-PS017-1200	Piston U-seal - PTFE		12				251.75
MLR-052-PS017-1400	Piston U-seal - PTFE		14				258.87
MLR-052-PS017-150	Piston U-seal - PTFE		1-1/2				23.82
MLR-052-PS017-1600	Piston U-seal - PTFE		16				273.97
MLR-052-PS017-200	Piston U-seal - PTFE		2				23.97
MLR-052-PS017-250	Piston U-seal - PTFE		2-1/2				28.28
MLR-052-PS017-325	Piston U-seal - PTFE		3-1/4				36.94
MLR-052-PS017-400	Piston U-seal - PTFE		4				48.99
MLR-052-PS017-500	Piston U-seal - PTFE		5				73.47
MLR-052-PS017-600	Piston U-seal - PTFE		6				83.99
MLR-052-PS017-700	Piston U-seal - PTFE		7				102.04
MLR-052-PS017-800	Piston U-seal - PTFE		8				118.87
MLR-052-PS025-1000	Piston U-seal - Nitrile		10				115.35
MLR-052-PS025-1400	Piston U-seal - Nitrile		14				224.00
MLR-052-PS025-150	Piston U-seal - Nitrile		1-1/2				27.65
MLR-052-PS025-1600	Piston U-seal - Nitrile		16				456.18
MLR-052-PS025-200	Piston U-seal - Nitrile		2				28.69
MLR-052-PS025-250	Piston U-seal - Nitrile		2-1/2				30.40
MLR-052-PS025-325	Piston U-seal - Nitrile		3-1/4				32.99
MLR-052-PS025-400	Piston U-seal - Nitrile		4				32.72
MLR-052-PS025-500	Piston U-seal - Nitrile		5				38.97
MLR-052-PS025-600	Piston U-seal - Nitrile		6				49.92
MLR-052-PS025-700	Piston U-seal - Nitrile		7				31.18
MLR-052-WR005-1000-38	Wear Ring - PTFE		10				118.30
MLR-052-WR005-1200-38	Wear Ring - PTFE		12				148.98
MLR-052-WR005-150-25	Wear Ring - PTFE		1-1/2				41.87
MLR-052-WR005-1600-50	Wear Ring - PTFE		16				232.02
MLR-052-WR005-1800-50	Wear Ring - PTFE		18				240.02
MLR-052-WR005-2000-50	Wear Ring - PTFE		20				278.43
MLR-052-WR005-200-25	Wear Ring - PTFE		2				44.08
MLR-052-WR005-250-25	Wear Ring - PTFE		2-1/2				46.52
MLR-052-WR005-325-25	Wear Ring - PTFE		3-1/4				61.66
MLR-052-WR005-400-25	Wear Ring - PTFE		4				76.92
MLR-052-WR005-500-25	Wear Ring - PTFE		5				96.57
MLR-052-WR005-600-25	Wear Ring - PTFE		6				115.46

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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-052-WR005-700-38	Wear Ring - PTFE		7				\$78.85
MLR-052-WR005-800-38	Wear Ring - PTFE		8				111.72
MLR-052-WR008-1000-125	Wear Ring - Bronze		10				456.02
MLR-052-WR008-1200-125	Wear Ring - Bronze		12				499.23
MLR-052-WR008-700-75	Wear Ring - Bronze		7				291.93
MLR-052-WR008-800-125	Wear Ring - Bronze		8				390.86
MLR-052-WR009-150-25	Wear Ring - Acetal		1-1/2				36.20
MLR-052-WR009-200-25	Wear Ring - Acetal		2				41.70
MLR-052-WR009-200-31	Wear Ring - Acetal		2				42.34
MLR-052-WR009-250-25	Wear Ring - Acetal		2-1/2				51.31
MLR-052-WR009-250-38	Wear Ring - Acetal		2-1/2				54.45
MLR-052-WR009-325-25	Wear Ring - Acetal		3-1/4				70.20
MLR-052-WR009-325-50	Wear Ring - Acetal		3-1/4				77.91
MLR-052-WR009-400-25	Wear Ring - Acetal		4				81.47
MLR-052-WR009-400-63	Wear Ring - Acetal		4				110.13
MLR-052-WR009-500-75	Wear Ring - Acetal		5				218.98
MLR-052-WR009-600-75	Wear Ring - Acetal		6				283.63
MLR-090-ES006-1000	Tube End Seal		10				61.42
MLR-090-ES006-1200	Tube End Seal		12				71.68
MLR-090-ES006-1400	Tube End Seal		14				81.92
MLR-090-ES006-150	Tube End Seal		1-1/2				11.94
MLR-090-ES006-200	Tube End Seal		2				20.82
MLR-090-ES006-250	Tube End Seal		2-1/2				21.88
MLR-090-ES006-325	Tube End Seal		3-1/4				25.32
MLR-090-ES006-400	Tube End Seal		4				31.36
MLR-090-ES006-500	Tube End Seal		5				33.61
MLR-090-ES006-600	Tube End Seal		6				41.51
MLR-090-ES006-700	Tube End Seal		7				40.95
MLR-090-ES006-800	Tube End Seal		8				51.19
MLR-090-ES009-1000	Tube End Seal		10				101.37
MLR-090-ES009-1200	Tube End Seal		12				112.83
MLR-090-ES009-1400	Tube End Seal		14				111.99
MLR-090-ES009-150	Tube End Seal		1-1/2				12.68
MLR-090-ES009-200	Tube End Seal		2				23.14
MLR-090-ES009-250	Tube End Seal		2-1/2				23.23
MLR-090-ES009-325	Tube End Seal		3-1/4				23.42
MLR-090-ES009-400	Tube End Seal		4				34.67
MLR-090-ES009-500	Tube End Seal		5				43.66
MLR-090-ES009-600	Tube End Seal		6				54.38
MLR-090-ES009-700	Tube End Seal		7				68.28
MLR-090-ES009-800	Tube End Seal		8				84.99
MLR-090-KB001-1000	Piston Kit		10				344.05
MLR-090-KB001-1200	Piston Kit		12				394.22
MLR-090-KB001-150	Piston Kit		1-1/2				120.78
MLR-090-KB001-200	Piston Kit		2				154.78
MLR-090-KB001-250	Piston Kit		2-1/2				167.89
MLR-090-KB001-325	Piston Kit		3-1/4				190.29
MLR-090-KB001-400	Piston Kit		4				220.11
MLR-090-KB001-500	Piston Kit		5				233.89
MLR-090-KB001-600	Piston Kit		6				281.69

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-090-KB001-700	Piston Kit		7				\$298.27
MLR-090-KB001-800	Piston Kit		8				306.67
MLR-091-KB001-1000	Piston Kit		10				310.54
MLR-091-KB001-1200	Piston Kit		12				708.41
MLR-091-KB001-150	Piston Kit		1-1/2				139.05
MLR-091-KB001-200	Piston Kit		2				139.83
MLR-091-KB001-250	Piston Kit		2-1/2				162.84
MLR-091-KB001-325	Piston Kit		3-1/4				213.59
MLR-091-KB001-400	Piston Kit		4				235.00
MLR-091-KB001-500	Piston Kit		5				330.68
MLR-091-KB001-600	Piston Kit		6				353.33
MLR-091-KB001-700	Piston Kit		7				364.09
MLR-091-KB001-800	Piston Kit		8				392.19
MLR-150-KB001-325	Piston Kit		3-1/4				346.12
MLR-150-KB001-500	Piston Kit		5				582.17
MLR-170-ES006-1000	Tube End Seal		10				61.42
MLR-170-ES006-1200	Tube End Seal		12				71.68
MLR-170-ES006-1400	Tube End Seal		14				81.92
MLR-170-ES006-150	Tube End Seal		1-1/2				11.73
MLR-170-ES006-1800	Tube End Seal		18				102.40
MLR-170-ES006-200	Tube End Seal		2				21.38
MLR-170-ES006-250	Tube End Seal		2-1/2				21.65
MLR-170-ES006-325	Tube End Seal		3-1/4				22.34
MLR-170-ES006-400	Tube End Seal		4				31.84
MLR-170-ES006-500	Tube End Seal		5				33.52
MLR-170-ES006-600	Tube End Seal		6				39.67
MLR-170-ES006-700	Tube End Seal		7				40.95
MLR-170-ES006-800	Tube End Seal		8				51.19
MLR-170-ES010-1000	Tube End Seal		10				102.16
MLR-170-ES010-1200	Tube End Seal		12				113.84
MLR-170-ES010-150	Tube End Seal		1-1/2				19.49
MLR-170-ES010-200	Tube End Seal		2				27.59
MLR-170-ES010-250	Tube End Seal		2-1/2				35.81
MLR-170-ES010-325	Tube End Seal		3-1/4				37.31
MLR-170-ES010-400	Tube End Seal		4				44.64
MLR-170-ES010-500	Tube End Seal		5				53.50
MLR-170-ES010-600	Tube End Seal		6				61.91
MLR-170-ES010-700	Tube End Seal		7				70.27
MLR-170-ES010-800	Tube End Seal		8				88.00
MLR-171-KB001-1000	Piston Kit		10				1161.02
MLR-171-KB001-1200	Piston Kit		12				1314.17
MLR-171-KB001-150	Piston Kit		1-1/2				190.54
MLR-171-KB001-200	Piston Kit		2				220.73
MLR-171-KB001-250	Piston Kit		2-1/2				265.33
MLR-171-KB001-325	Piston Kit		3-1/4				315.49
MLR-171-KB001-400	Piston Kit		4				435.61
MLR-171-KB001-500	Piston Kit		5				506.02
MLR-171-KB001-600	Piston Kit		6				563.14
MLR-171-KB001-700	Piston Kit		7				793.65
MLR-171-KB001-800	Piston Kit		8				990.84
MLR-181-KB001-150	Piston Kit		1-1/2				84.18

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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-181-KB001-200	Piston Kit		2				\$87.76
MLR-181-KB001-250	Piston Kit		2-1/2				91.71
MLR-181-KB001-325	Piston Kit		3-1/4				101.59
MLR-181-KB001-400	Piston Kit		4				109.29
MLR-181-KB001-500	Piston Kit		5				129.39
MLR-181-KB001-600	Piston Kit		6				149.76
MLR-181-KB001-700	Piston Kit		7				151.67
MLR-181-KB001-800	Piston Kit		8				216.33
MLR-H-KBH01-150	Piston Kit		1-1/2				45.33
MLR-H-KBH01-200	Piston Kit		2				46.87
MLR-H-KBH01-250	Piston Kit		2-1/2				60.47
MLR-H-KBH01-325	Piston Kit		3-1/4				86.90
MLR-H-KBH01-400	Piston Kit		4				102.72
MLR-H-KBH01-500	Piston Kit		5				133.24
MLR-H-KBH01-600	Piston Kit		6				159.99
MLR-H-KBH01-700	Piston Kit		7				233.83
MLR-H-KBK02-150	Piston Kit		1-1/2				101.65
MLR-H-KBK02-200	Piston Kit		2				114.37
MLR-H-KBK02-250	Piston Kit		2-1/2				124.46
MLR-H-KBK02-325	Piston Kit		3-1/4				141.44
MLR-H-KBK02-400	Piston Kit		4				144.52
MLR-H-KBK02-500	Piston Kit		5				168.46
MLR-H-KBK02-600	Piston Kit		6				173.94
MLR-H-KBK02-700	Piston Kit		7				290.51
MLR-H-KBK05-150	Piston Kit		1-1/2				95.52
MLR-H-KBK05-200	Piston Kit		2				101.24
MLR-H-KBK05-250	Piston Kit		2-1/2				107.91
MLR-H-KBK05-325	Piston Kit		3-1/4				122.35
MLR-H-KBK05-400	Piston Kit		4				127.87
MLR-H-KBK05-500	Piston Kit		5				176.54
MLR-H-KBK05-600	Piston Kit		6				229.29
MLR-H-KBK05-700	Piston Kit		7				257.18
MLR-H-RK110-100	Rod Kit	1					27.38
MLR-H-RK110-138	Rod Kit	1-3/8					31.01
MLR-H-RK110-175	Rod Kit	1-3/4					33.30
MLR-H-RK110-200	Rod Kit	2					35.51
MLR-H-RK110-250	Rod Kit	2-1/2					43.66
MLR-H-RK110-300	Rod Kit	3					50.32
MLR-H-RK110-350	Rod Kit	3-1/2					69.67
MLR-H-RK110-400	Rod Kit	4					82.85
MLR-H-RK110-63	Rod Kit	5/8					21.88
MLR-H-RK510-100	Rod Kit	1					35.70
MLR-H-RK510-138	Rod Kit	1-3/8					52.63
MLR-H-RK510-175	Rod Kit	1-3/4					56.61
MLR-H-RK510-200	Rod Kit	2					77.13
MLR-H-RK510-250	Rod Kit	2-1/2					97.65
MLR-H-RK510-300	Rod Kit	3					115.87
MLR-H-RK510-350	Rod Kit	3-1/2					123.66
MLR-H-RK510-400	Rod Kit	4					142.26
MLR-H-RK510-63	Rod Kit	5/8					27.41
MLR-HV2-ES100-150	Piston Kit		1-1/2				10.39

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-HV2-ES100-200	Piston Kit		2				\$10.93
MLR-HV2-ES100-250	Piston Kit		2-1/2				11.37
MLR-HV2-ES100-325	Piston Kit		3-1/4				12.04
MLR-HV2-ES100-400	Piston Kit		4				12.55
MLR-HV2-ES100-500	Piston Kit		5				14.46
MLR-HV2-ES100-600	Piston Kit		6				14.46
MLR-HV2-ES200-150	Piston Kit		1-1/2				14.22
MLR-HV2-ES200-200	Piston Kit		2				24.31
MLR-HV2-ES200-250	Piston Kit		2-1/2				30.34
MLR-HV2-ES200-325	Piston Kit		3-1/4				36.90
MLR-HV2-ES200-400	Piston Kit		4				46.15
MLR-HV2-ES200-500	Piston Kit		5				66.63
MLR-HV2-ES200-600	Piston Kit		6				69.69
MLR-HV2-KB100-150	Piston Kit		1-1/2				16.71
MLR-HV2-KB100-200	Piston Kit		2				19.69
MLR-HV2-KB100-250	Piston Kit		2-1/2				22.83
MLR-HV2-KB100-325	Piston Kit		3-1/4				28.30
MLR-HV2-KB100-400	Piston Kit		4				37.20
MLR-HV2-KB100-500	Piston Kit		5				43.39
MLR-HV2-KB100-600	Piston Kit		6				43.39
MLR-HV2-KB300-150	Piston Kit		1-1/2				69.34
MLR-HV2-KB300-200	Piston Kit		2				73.98
MLR-HV2-KB300-250	Piston Kit		2-1/2				74.81
MLR-HV2-KB300-325	Piston Kit		3-1/4				80.90
MLR-HV2-KB300-400	Piston Kit		4				83.28
MLR-HV2-KB300-500	Piston Kit		5				109.69
MLR-HV2-KB300-600	Piston Kit		6				164.90
MLR-HV2-KB400-150	Piston Kit		1-1/2				80.32
MLR-HV2-KB400-200	Piston Kit		2				83.25
MLR-HV2-KB400-250	Piston Kit		2-1/2				84.42
MLR-HV2-KB400-325	Piston Kit		3-1/4				100.57
MLR-HV2-KB400-400	Piston Kit		4				102.48
MLR-HV2-KB400-500	Piston Kit		5				145.31
MLR-HV2-KB400-600	Piston Kit		6				175.85
MLR-HV2-KB500-150	Piston Kit		1-1/2				37.84
MLR-HV2-KB500-200	Piston Kit		2				49.11
MLR-HV2-KB500-250	Piston Kit		2-1/2				47.35
MLR-HV2-KB500-325	Piston Kit		3-1/4				62.51
MLR-HV2-KB500-400	Piston Kit		4				54.45
MLR-HV2-KB500-500	Piston Kit		5				61.09
MLR-HV2-KB500-600	Piston Kit		6				112.09
MLR-HV2-KB600-150	Piston Kit		1-1/2				65.60
MLR-HV2-KB600-200	Piston Kit		2				74.27
MLR-HV2-KB600-250	Piston Kit		2-1/2				79.85
MLR-HV2-KB600-325	Piston Kit		3-1/4				175.85
MLR-HV2-KB600-400	Piston Kit		4				194.59
MLR-HV2-KB600-500	Piston Kit		5				215.33
MLR-HV2-KB600-600	Piston Kit		6				335.76
MLR-HV2-KR300-100	Rod Kit	1					28.20
MLR-HV2-KR300-138	Rod Kit	1-3/8					31.94
MLR-HV2-KR300-175	Rod Kit	1-3/4					34.30

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-HV2-KR300-200	Rod Kit	2					\$36.57
MLR-HV2-KR300-250	Rod Kit	2-1/2					44.97
MLR-HV2-KR300-300	Rod Kit	3					51.83
MLR-HV2-KR300-350	Rod Kit	3-1/2					79.09
MLR-HV2-KR300-400	Rod Kit	4					89.56
MLR-HV2-KR300-63	Rod Kit	5/8					41.65
MLR-HV2-KR310-100	Rod Kit	1					28.20
MLR-HV2-KR310-138	Rod Kit	1-3/8					31.94
MLR-HV2-KR310-175	Rod Kit	1-3/4					34.30
MLR-HV2-KR310-200	Rod Kit	2					36.57
MLR-HV2-KR310-250	Rod Kit	2-1/2					44.97
MLR-HV2-KR310-300	Rod Kit	3					51.83
MLR-HV2-KR310-350	Rod Kit	3-1/2					71.76
MLR-HV2-KR310-400	Rod Kit	4					85.34
MLR-HV2-KR310-63	Rod Kit	5/8					22.54
MLR-HV2-KR400-100	Rod Kit	1					29.99
MLR-HV2-KR400-138	Rod Kit	1-3/8					53.45
MLR-HV2-KR400-175	Rod Kit	1-3/4					57.95
MLR-HV2-KR400-200	Rod Kit	2					67.44
MLR-HV2-KR400-250	Rod Kit	2-1/2					77.72
MLR-HV2-KR400-300	Rod Kit	3					84.60
MLR-HV2-KR400-350	Rod Kit	3-1/2					91.67
MLR-HV2-KR400-400	Rod Kit	4					99.63
MLR-HV2-KR400-63	Rod Kit	5/8					30.83
MLR-HV2-KR410-100	Rod Kit	1					36.77
MLR-HV2-KR410-138	Rod Kit	1-3/8					54.21
MLR-HV2-KR410-175	Rod Kit	1-3/4					58.30
MLR-HV2-KR410-200	Rod Kit	2					139.64
MLR-HV2-KR410-250	Rod Kit	2-1/2					100.58
MLR-HV2-KR410-300	Rod Kit	3					119.35
MLR-HV2-KR410-350	Rod Kit	3-1/2					127.37
MLR-HV2-KR410-400	Rod Kit	4					146.53
MLR-HV2-KR410-500	Rod Kit	5					209.29
MLR-HV2-KR410-550	Rod Kit	5-1/2					251.57
MLR-HV2-KR410-63	Rod Kit	5/8					28.23
MLR-HV2-KR600-63	Rod Kit	5/8					29.72
MLR-HV2-KR600-100	Rod Kit	1					31.07
MLR-HV2-KR600-138	Rod Kit	1-3/8					35.87
MLR-HV2-KR600-175	Rod Kit	1-3/4					41.07
MLR-HV2-KR600-200	Rod Kit	2					45.21
MLR-HV2-KR600-250	Rod Kit	2-1/2					49.77
MLR-HV2-KR600-300	Rod Kit	3					55.32
MLR-HV2-KR600-350	Rod Kit	3-1/2					62.04
MLR-HV2-KR600-400	Rod Kit	4					69.71
MLR-RG065-063	Iron Gland	5/8					57.35
MLR-RG065-100	Iron Gland	1					66.79
MLR-RG065-138	Iron Gland	1-3/8					83.51
MLR-RG065-175	Iron Gland	1-3/4					214.91
MLR-RG065-200	Iron Gland	2					232.43
MLR-RG065-250	Iron Gland	2-1/2					270.78
MLR-RG065-300	Iron Gland	3					310.64

Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-RG065-350	Iron Gland	3-1/2					\$346.72
MLR-008-SH001-30	0.03cs x 0.07w PTFE strip (30' Spool)						184.37
MLR-SH1-STRIP	0.03cs x 0.07w PTFE strip (sold by the foot)						11.18
MLR-JV-ES100-100	Head Seal Kit		1				12.63
MLR-JV-ES100-150	Head Seal Kit		1-1/2				9.89
MLR-JV-ES100-200	Head Seal Kit		2				10.40
MLR-JV-ES100-250	Head Seal Kit		2-1/2				10.83
MLR-JV-ES100-325	Head Seal Kit		3-1/4				11.46
MLR-JV-ES100-400	Head Seal Kit		4				11.96
MLR-JV-ES100-500	Head Seal Kit		5				13.78
MLR-JV-ES100-600	Head Seal Kit		6				13.78
MLR-JV-ES100-800	Head Seal Kit		8				14.33
MLR-JV-ES200-100	Head Seal Kit		1				13.27
MLR-JV-ES200-150	Head Seal Kit		1-1/2				13.55
MLR-JV-ES200-200	Head Seal Kit		2				23.16
MLR-JV-ES200-250	Head Seal Kit		2-1/2				28.90
MLR-JV-ES200-325	Head Seal Kit		3-1/4				35.13
MLR-JV-ES200-400	Head Seal Kit		4				43.96
MLR-JV-ES200-500	Head Seal Kit		5				63.46
MLR-JV-ES200-600	Head Seal Kit		6				66.36
MLR-JV-ES200-800	Head Seal Kit		8				67.82
MLR-JV-KB100-100	N-N-5		1				8.11
MLR-JV-KB100-150	N-N-5		1-1/2				9.59
MLR-JV-KB100-200	N-N-5		2				11.28
MLR-JV-KB100-250	N-N-5		2-1/2				13.02
MLR-JV-KB100-325	N-N-5		3-1/4				16.20
MLR-JV-KB100-400	N-N-5		4				20.25
MLR-JV-KB100-500	N-N-5		5				24.81
MLR-JV-KB100-600	N-N-5		6				32.27
MLR-JV-KB100-800	N-N-5		8				93.53
MLR-JV-KB200-100	N-N-5		1				30.84
MLR-JV-KB200-150	N-N-5		1-1/2				43.50
MLR-JV-KB200-200	N-N-5		2				49.65
MLR-JV-KB200-250	N-N-5		2-1/2				69.66
MLR-JV-KB200-325	N-N-5		3-1/4				81.27
MLR-JV-KB200-400	N-N-5		4				87.58
MLR-JV-KB200-500	N-N-5		6				111.14
MLR-JV-KB200-600	N-N-5		6				147.72
MLR-JV-KB200-800	N-N-5		8				320.18
MLR-JV-KB300-100	N-N-12	1					71.33
MLR-JV-KB300-150	N-N-12	1-1/2					39.88
MLR-JV-KB300-200	N-N-12	2					42.56
MLR-JV-KB300-250	N-N-12	2-1/2					43.04
MLR-JV-KB300-325	N-N-12	3-1/4					46.54
MLR-JV-KB300-400	N-N-12	4					47.93
MLR-JV-KB300-500	N-N-12	5					63.12
MLR-JV-KB300-600	N-N-12	6					94.90
MLR-JV-KB300-800	N-N-12	8					162.03
MLR-JV-KB400-100	N-N-12	1					72.50
MLR-JV-KB400-150	N-N-12	1-1/2					46.22

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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width	List Price
MLR-JV-KB400-200	N-N-12	2					\$47.93
MLR-JV-KB400-250	N-N-12	2-1/2					48.57
MLR-JV-KB400-325	N-N-12	3-1/4					57.89
MLR-JV-KB400-400	N-N-12	4					58.98
MLR-JV-KB400-500	N-N-12	5					83.61
MLR-JV-KB400-600	N-N-12	6					101.20
MLR-JV-KB400-800	N-N-12	8					172.90
MLR-JV-KR300-100	I-U-1	1					27.79
MLR-JV-KR300-138	I-U-1	1-3/8					28.50
MLR-JV-KR300-175	I-U-1	1-3/4					34.18
MLR-JV-KR300-200	I-U-1	2					40.02
MLR-JV-KR300-250	I-U-1	2-1/2					43.06
MLR-JV-KR300-300	I-U-1	3					57.05
MLR-JV-KR300-350	I-U-1	3-1/2					64.05
MLR-JV-KR300-400	I-U-1	4					75.82
MLR-JV-KR300-450	I-U-1	4-1/2					81.59
MLR-JV-KR300-50	I-U-1	1/2					26.10
MLR-JV-KR300-500	I-U-1	5					90.69
MLR-JV-KR300-550	I-U-1	5-1/2					96.09
MLR-JV-KR300-63	I-U-1	5/8					26.53
MLR-JV-KR400-100	I-U-1	1					38.16
MLR-JV-KR400-138	I-U-1	1-3/8					39.68
MLR-JV-KR400-175	I-U-1	1-3/4					42.04
MLR-JV-KR400-200	I-U-1	2					45.36
MLR-JV-KR400-250	I-U-1	2-1/2					53.86
MLR-JV-KR400-300	I-U-1	3					63.44
MLR-JV-KR400-350	I-U-1	3-1/2					82.63
MLR-JV-KR400-400	I-U-1	4					120.63
MLR-JV-KR400-50	I-U-1	1/2					33.52
MLR-JV-KR400-63	I-U-1	5/8					38.05

Kits

H Cylinders Nitrile

Bore	Rod	(NBR) Kit #	List Price
1-1/2"	5/8"	MIL-00151-7-40	\$63.25
1-1/2"	1"	MIL-00152-7-40	67.21
2"	1"	MIL-01510-7-40	66.38
2"	1-3/8"	MIL-01511-7-40	70.28
2-1/2"	1"	MIL-01520-7-40	71.49
2-1/2"	1-3/8"	MIL-01521-7-40	75.12
2-1/2"	1-3/4"	MIL-01522-7-40	78.27
3-1/4"	1-3/8"	MIL-01530-7-40	91.11
3-1/4"	1-3/4"	MIL-01531-7-40	98.83
3-1/4"	2"	MIL-01532-7-40	102.83
4"	1-3/4"	MIL-01540-7-40	104.90
4"	2"	MIL-01541-7-40	107.77
4"	2-1/2"	MIL-01542-7-40	131.37
5"	2"	MIL-01550-7-40	152.29
5"	2-1/2"	MIL-01551-7-40	111.45
5"	3"	MIL-01552-7-40	145.51
5"	3-1/2"	MIL-01553-7-40	154.95
6"	2-1/2"	MIL-01560-7-40	229.36
6"	3"	MIL-01561-7-40	230.94
6"	3-1/2"	MIL-01562-7-40	239.68
6"	4"	MIL-01563-7-40	257.54



ORTMAN

Various Kits

Kit #	Code	Rod x Bore	List Price
ORT-RS003540010	I-U-1	5/8 Rod Kit	\$24.70
ORT-RS003540020	I-U-1	1 Rod Kit	24.69
ORT-RS003540040	I-U-1	1-3/4 Rod Kit	46.84
ORT-RS003540060	I-U-1	2-1/2 Rod Kit	50.77
ORT-RS003540090	I-U-1	4" Rod Kit	80.52
ORT-TS543511000	N-N-5	2-1/2 Piston Kit	23.08
ORT-TS563511000	N-N-5	3-1/4 Piston Kit	72.81
ORT-TS583511000	N-N-5	4 Piston Kit	55.25
ORT-TS603511000	N-N-5	6 Piston Kit	144.92
ORT-TS777512000	N-N-5	1-1/2 Piston Kit	16.48

Kit Composition Varies

Consult your
Hercules® Sealing Products representative.

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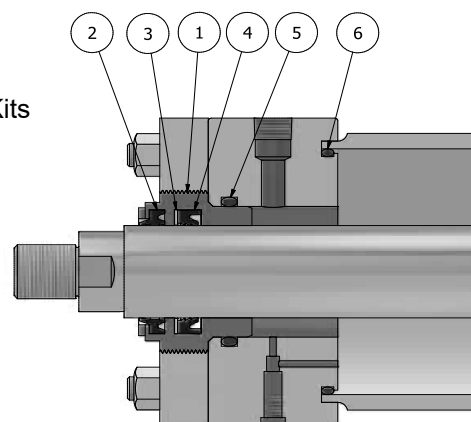
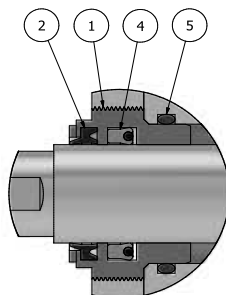
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2A & 2AN Series

Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up
9	Felt Wick
10	Felt Washer

*3-1/2 to 5-1/2 Rod Gland & Seal Kits



2A Rod Gland Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0051	\$100.69
5/8	PKH-RG2AHL0061	60.81
1	PKH-RG2AHL0101	74.56
1-3/8	PKH-RG2AHL0131	90.91
1-3/4	PKH-RG2AHL0171	105.28
2	PKH-RG2AHL0201	131.34
2-1/2	PKH-RG2AHL0251	179.19
3	PKH-RG2AHL0301	229.98
*3-1/2" - 5-1/2" (1,2,4,5)		
3-1/2	PKH-RG2AHL0351	504.17
4	PKH-RG2AHL0401	613.14
4-1/2	PKH-RG2AHL0451	762.88
5	PKH-RG2AHL0501	848.77
5-1/2	PKH-RG2AHL0551	875.37

2A Rod Gland Kits (1,2,3,4,5) Fluorocarbon

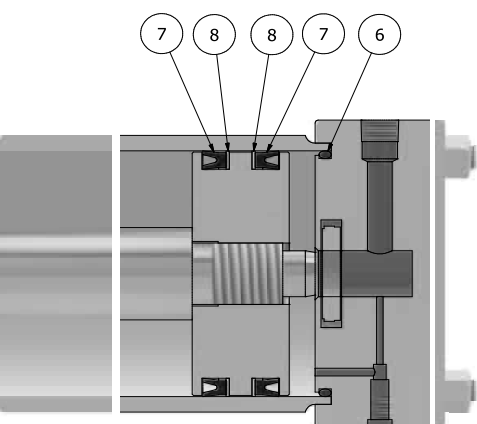
Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0055	\$129.43
5/8	PKH-RG2AHL0065	99.21
1	PKH-RG2AHL0105	112.27
1-3/8	PKH-RG2AHL0135	141.06
1-3/4	PKH-RG2AHL0175	154.04
2	PKH-RG2AHL0205	183.35
2-1/2	PKH-RG2AHL0255	238.11
3	PKH-RG2AHL0305	270.67
*3-1/2" - 5-1/2" (1,2,4,5)		
3-1/2	PKH-RG2AHL0355	546.35
4	PKH-RG2AHL0405	643.77
4-1/2	PKH-RG2AHL0455	769.18
5	PKH-RG2AHL0505	960.78
5-1/2	PKH-RG2AHL0555	1048.58

2A Rod Seal Kits (2,3,4,5) Nitrile

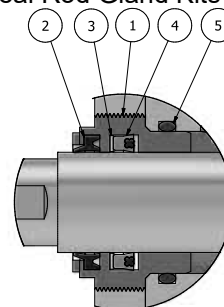
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0051	\$11.67
5/8	PKH-RK2AHL0061	20.24
1	PKH-RK2AHL0101	14.63
1-3/8	PKH-RK2AHL0131	16.05
1-3/4	PKH-RK2AHL0171	18.58
2	PKH-RK2AHL0201	20.52
2-1/2	PKH-RK2AHL0251	23.04
3	PKH-RK2AHL0301	29.86
*3-1/2" - 5-1/2" (2,4,5)		
3-1/2	PKH-RK2AHL0351	139.74
4	PKH-RK2AHL0401	173.58
4-1/2	PKH-RK2AHL0451	203.52
5	PKH-RK2AHL0501	253.41
5-1/2	PKH-RK2AHL0551	282.96

2A Rod Seal Kits (2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0055	\$48.48
5/8	PKH-RK2AHL0065	53.30
1	PKH-RK2AHL0105	59.88
1-3/8	PKH-RK2AHL0135	77.53
1-3/4	PKH-RK2AHL0175	80.76
2	PKH-RK2AHL0205	84.18
2-1/2	PKH-RK2AHL0255	92.12
3	PKH-RK2AHL0305	111.16
*3-1/2" - 5-1/2" (2,4,5)		
3-1/2	PKH-RK2AHL0355	230.59
4	PKH-RK2AHL0405	267.19
4-1/2	PKH-RK2AHL0455	334.40
5	PKH-RK2AHL0505	390.72
5-1/2	PKH-RK2AHL0555	560.57



Loaded U-Seal Rod Gland Kits (PS suffix kits)



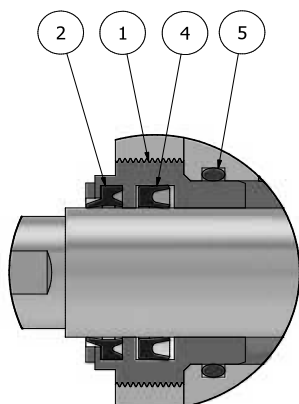
2A Rod Gland Kits (1,2,3,4,5) Nitrile, Loaded U-Seal		
Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0051PS	\$53.92
5/8	PKH-RG2AHL0061PS	58.46
1	PKH-RG2AHL0101PS	72.54
1-3/8	PKH-RG2AHL0131PS	89.20
1-3/4	PKH-RG2AHL0171PS	100.61
2	PKH-RG2AHL0201PS	126.70
2-1/2	PKH-RG2AHL0251PS	194.42
3	PKH-RG2AHL0301PS	230.04
3-1/2	PKH-RG2AHL0351PS	479.68

2A Rod Gland Kits (1,2,3,4,5) Fluorocarbon, Loaded U-Seal		
Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0055PS	\$65.64
5/8	PKH-RG2AHL0065PS	72.08
1	PKH-RG2AHL0105PS	87.22
1-3/8	PKH-RG2AHL0135PS	108.87
1-3/4	PKH-RG2AHL0175PS	126.29
2	PKH-RG2AHL0205PS	147.27
2-1/2	PKH-RG2AHL0255PS	238.45
3	PKH-RG2AHL0305PS	262.57
3-1/2	PKH-RG2AHL0355PS	483.50

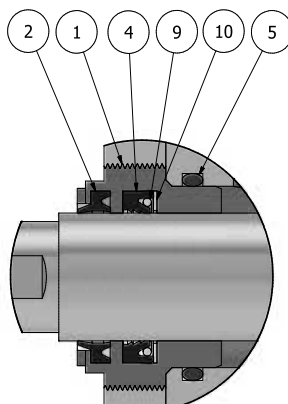
2A Rod Seal Kits (2,3,4,5) Nitrile, Loaded U-Seal		
Bore Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0051PS	\$16.11
5/8	PKH-RK2AHL0061PS	16.97
1	PKH-RK2AHL0101PS	24.18
1-3/8	PKH-RK2AHL0131PS	28.43
1-3/4	PKH-RK2AHL0171PS	24.45
2	PKH-RK2AHL0201PS	29.99
2-1/2	PKH-RK2AHL0251PS	45.82
3	PKH-RK2AHL0301PS	55.29
3-1/2	PKH-RK2AHL0351PS	109.41

2A Rod Seal Kits (2,3,4,5) Fluorocarbon, Loaded U-Seal		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0055PS	\$27.84
5/8	PKH-RK2AHL0065PS	30.58
1	PKH-RK2AHL0105PS	38.86
1-3/8	PKH-RK2AHL0135PS	48.12
1-3/4	PKH-RK2AHL0175PS	50.12
2	PKH-RK2AHL0205PS	50.57
2-1/2	PKH-RK2AHL0255PS	89.84
3	PKH-RK2AHL0305PS	87.82
3-1/2	PKH-RK2AHL0355PS	113.23

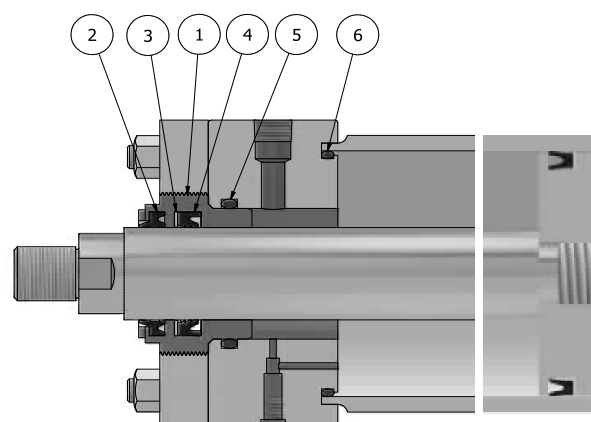
2A & 2AN Series Continued



1/2" to 2-1/2" Rod Kits



3" to 5-1/2" Rod Kits



2AN Rod Gland Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AN00051	\$65.47
5/8	PKH-RG2AN00061	68.15
1	PKH-RG2AN00101	76.59
1-3/8	PKH-RG2AN00131	81.47
1-3/4	PKH-RG2AN00171	102.38
2	PKH-RG2AN00201	124.65
2-1/2	PKH-RG2AN00251	203.91
3" - 5-1/2" (1,2,4,5,9,10)		
3	PKH-RG2AN00301	309.88
3-1/2	PKH-RG2AN00351	440.76
4	PKH-RG2AN00401	590.38
5	PKH-RG2AN00501	872.64
5-1/2	PKH-RG2AN00551	977.70

2AN Rod Seal Kits (2,4,5) Nitrile

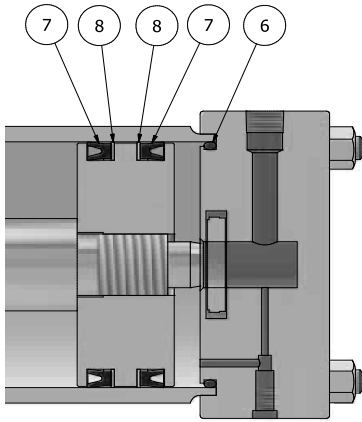
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AN00051	\$28.50
5/8	PKH-RK2AN00061	29.86
1	PKH-RK2AN00101	34.30
1-3/8	PKH-RK2AN00131	37.86
1-3/4	PKH-RK2AN00171	44.52
2	PKH-RK2AN00201	52.54
2-1/2	PKH-RK2AN00251	76.17
3" - 5-1/2" (2,4,5,9,10)		
3	PKH-RK2AN00301	125.55
3-1/2	PKH-RK2AN00351	198.56
4	PKH-RK2AN00401	240.42
5	PKH-RK2AN00501	288.49
5-1/2	PKH-RK2AN00551	344.61

2A & 2AN Rod Glands (1) Bronze

Rod Dia	Sales Part No	List Price
1/2	PKH-RG-05	\$57.89
5/8	PKH-RG-06	34.88
1	PKH-RG-10	40.50
1-3/8	PKH-RG-13	56.18
1-3/4	PKH-RG-17	68.33
2	PKH-RG-20	83.53
2-1/2	PKH-RG-25	117.84
3	PKH-RG-30	162.91
3-1/2	PKH-RG-35	382.14
4	PKH-RG-40	389.31
4-1/2	PKH-RG-45	559.85
5	PKH-RG-50	648.60
5-1/2	PKH-RG-55	684.06

2AN Piston Seal Kits(6,7) Nitrile

Bore Dia	Sales Part No	List Price
1	PKH-PK1002AN01	\$29.71
1-1/2	PKH-PK1502AN01	33.01
2	PKH-PK2002AN01	36.90
2-1/2	PKH-PK2502AN01	45.04
3-1/4	PKH-PK3202AN01	58.81
4	PKH-PK4002AN01	72.81
5	PKH-PK5002AN01	87.38
6	PKH-PK6002AN01	139.23
7	PKH-PK7002AN01	151.25
8	PKH-PK8002AN01	216.10
10	PKH-PK9002AN01	322.73
12	PKH-PK9202AN01	591.14



Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up
9	Felt Wick
10	Felt Washer

2A Piston Seal Kits (6,7,8) Nitrile		
Bore Dia	Sales Part No	List Price
1	PKH-PK1002A001	\$14.46
1-1/2	PKH-PK1502A001	16.99
2	PKH-PK2002A001	20.01
2-1/2	PKH-PK2502A001	23.20
3-1/4	PKH-PK3202A001	28.77
4	PKH-PK4002A001	37.82
5	PKH-PK5002A001	44.11
6	PKH-PK6002A001	57.31
7	PKH-PK7002A001	142.98
8	PKH-PK8002A001	166.47
10	PKH-PK9002A001	246.55
12	PKH-PK9202A001	334.92
14	PKH-PK9402A001	518.05

2A Piston Seal Kits (6,7,8) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1	PKH-PK1002A005	\$54.90
1-1/2	PKH-PK1502A005	77.36
2	PKH-PK2002A005	88.27
2-1/2	PKH-PK2502A005	123.89
3-1/4	PKH-PK3202A005	144.58
4	PKH-PK4002A005	155.84
5	PKH-PK5002A005	197.78
6	PKH-PK6002A005	262.87
7	PKH-PK7002A005	416.67
8	PKH-PK8002A005	569.76
10	PKH-PK9002A005	723.18
12	PKH-PK9202A005	1110.93
14	PKH-PK9402A005	1815.04

2A End Seal Kits (6) Nitrile		
Bore	Sales Part No	List Price
1	PKH-CB102HL001	\$10.29
1-1/2	PKH-CB152HL001	10.55
2	PKH-CB202HL001	11.09
2-1/2	PKH-CB252HL001	11.57
3-1/4	PKH-CB322HL001	12.23
4	PKH-CB402HL001	12.77
5	PKH-CB502HL001	14.71
6	PKH-CB602HL001	17.51
7	PKH-CB702HL001	18.86
8	PKH-CB802HL001	21.42
10	PKH-CB902HL001	26.09

2A End Seal Kits (6) Fluorocarbon		
Bore	Sales Part No	List Price
1	PKH-CB102HL005	\$14.45
1-1/2	PKH-CB152HL005	14.45
2	PKH-CB202HL005	24.70
2-1/2	PKH-CB252HL005	30.85
3-1/4	PKH-CB322HL005	37.51
4	PKH-CB402HL005	46.92
5	PKH-CB502HL005	67.74
6	PKH-CB602HL005	70.83
7	PKH-CB702HL005	101.63
8	PKH-CB802HL005	103.42
10	PKH-CB902HL005	114.49

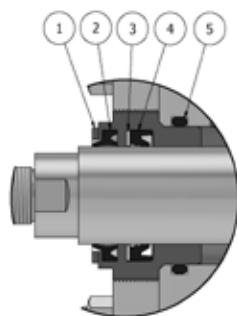
Gen II

2H & 3H (7 & 8 Bore) Series

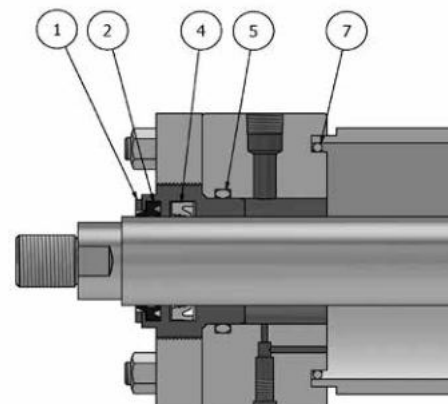
Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal back-Up
7	End Seal
8	Piston Wear Ring
9	Piston Seal

Parker 2H Gen II



Fluorocarbon



Urethane

Rod Gland Kits (1,2,4,5) Urethane

Rod Size	Sales Part No	List Price
5/8	PKH-RG2HLG2061	\$49.74
1	PKH-RG2HLG2101	64.12
1-3/8	PKH-RG2HLG2131	84.86
1-3/4	PKH-RG2HLG2171	98.53
2	PKH-RG2HLG2201	136.1
2-1/2	PKH-RG2HLG2251	185.82
3	PKH-RG2HLG2301	220.15
3-1/2	PKH-RG2HLG2351	431.45
4	PKH-RG2HLG2401	453.62
4-1/2	PKH-RG2HLG2451	1098.32

Rod Gland Kits (1,2,4,5) Fluorocarbon

Rod Size	Sales Part No	List Price
5/8	PKH-RG2HLG2065	\$72.68
1	PKH-RG2HLG2105	77.41
1-3/8	PKH-RG2HLG2135	111.12
1-3/4	PKH-RG2HLG2175	132.53
2	PKH-RG2HLG2205	169.58
2-1/2	PKH-RG2HLG2255	248.32
3	PKH-RG2HLG2305	298.82
3-1/2	PKH-RG2HLG2355	516.14
4	PKH-RG2HLG2405	514.32

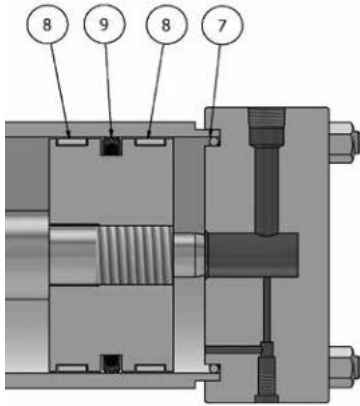
Rod Seal Kits (2,4,5) Urethane

Rod Size	Sales Part No	List Price
5/8	PKH-RK2HLG2061	\$13.96
1	PKH-RK2HLG2101	19.11
1-3/8	PKH-RK2HLG2131	19.25
1-3/4	PKH-RK2HLG2171	21.46
2	PKH-RK2HLG2201	23.33
2-1/2	PKH-RK2HLG2251	33.74
3	PKH-RK2HLG2301	39.92
3-1/2	PKH-RK2HLG2351	57.83
4	PKH-RK2HLG2401	69.39
4-1/2	PKH-RK2HLG2451	106.94

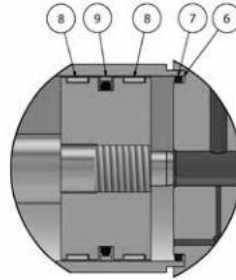
Rod Seal Kits (2,3,4,5)

Rod Size	Sales Part No	List Price
5/8	PKH-RK2HLG2065	\$36.91
1	PKH-RK2HLG2105	32.41
1-3/8	PKH-RK2HLG2135	45.5
1-3/4	PKH-RK2HLG2175	55.45
2	PKH-RK2HLG2205	56.81
2-1/2	PKH-RK2HLG2255	96.24
3	PKH-RK2HLG2305	118.59
3-1/2	PKH-RK2HLG2355	142.52
4	PKH-RK2HLG2405	130.09

Gen II 2H & 3H Series



Parker 2H Gen II - Threaded Gland
PTFE Piston Seal



Piston Seal Kits (7,8,9) Urethane		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HH001	\$45.33
2	PKH-PK202HH001	46.87
2-1/2	PKH-PK252HH001	60.47
3-1/4	PKH-PK322HH001	86.9
4	PKH-PK402HH001	102.72
5	PKH-PK502HH001	133.24
6	PKH-PK602HH001	159.99

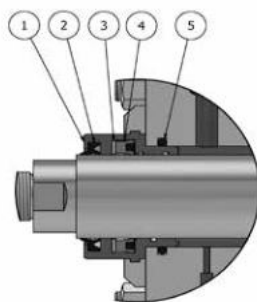
Piston Seal Kits (6,7,8,9) PTFE/Nitrile		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HF001	\$101.65
2	PKH-PK202HF001	101.24
2-1/2	PKH-PK252HF001	107.91
3-1/4	PKH-PK322HF001	122.35
4	PKH-PK402HF001	127.87
5	PKH-PK502HF001	168.46
6	PKH-PK602HF001	173.94

Piston Seal Kits (6,7,8,9) PTFE/Fluorocarbon		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HF005	\$95.52
2	PKH-PK202HF005	114.37
2-1/2	PKH-PK252HF005	124.46
3-1/4	PKH-PK322HF005	141.44
4	PKH-PK402HF005	144.52
5	PKH-PK502HF005	176.54
6	PKH-PK602HF005	229.29

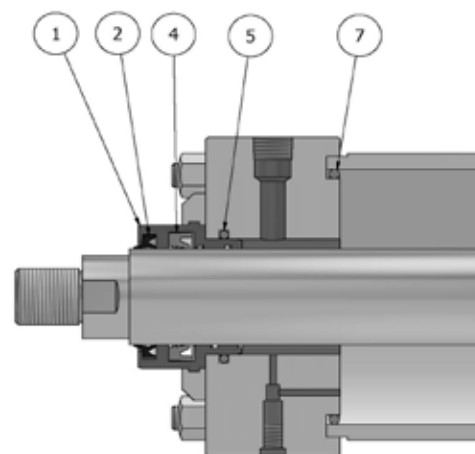
Gen II 2HD, 2HB, 3HD, 3HB Series

Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal back-Up
7	End Seal
8	Piston Wear Ring
9	Piston Seal



Fluorocarbon



Urethane

Rod Seal Kits (2,3,4,5) Fluorocarbon

Rod Size	Sales Part No	List Price
5/8	PKH-RK2HDG2065	\$31.66
1	PKH-RK2HDG2105	44.31
1-3/8	PKH-RK2HDG2135	63.52
1-3/4	PKH-RK2HDG2175	70.15
2	PKH-RK2HDG2205	72.43
2-1/2	PKH-RK2HDG2255	105.97
3	PKH-RK2HDG2305	283.25
3-1/2	PKH-RK2HDG2355	145.57
4	PKH-RK2HDG2405	180.48

Rod Seal Kits (2,4,5) Urethane

Rod Size	Sales Part No	List Price
5/8	PKH-RK2HDG2061	\$20.96
1	PKH-RK2HDG2101	18.79
1-3/8	PKH-RK2HDG2131	25.33
1-3/4	PKH-RK2HDG2171	36.53
2	PKH-RK2HDG2201	26.26
2-1/2	PKH-RK2HDG2251	38.97
3	PKH-RK2HDG2301	48.92
3-1/2	PKH-RK2HDG2351	109.14
4	PKH-RK2HDG2401	68.69

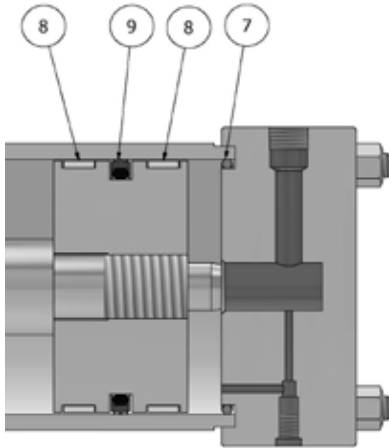
Rod Gland Kits (1,2,3,4,5) Fluorocarbon

Rod Size	Sales Part No	List Price
5/8	PKH-RG2HDG2065	\$103.97
1	PKH-RG2HDG2105	108.02
1-3/8	PKH-RG2HDG2135	125.41
1-3/4	PKH-RG2HDG2175	147.50
2	PKH-RG2HDG2205	224.45
2-1/2	PKH-RG2HDG2255	266.77
3	PKH-RG2HDG2305	403.39

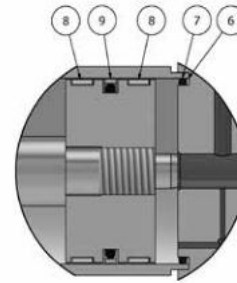
Rod Gland Kits (1,2,4,5) Urethane

Rod Size	Sales Part No	List Price
5/8	PKH-RG2HDG2061	\$118.91
1	PKH-RG2HDG2101	123.53
1-3/8	PKH-RG2HDG2131	149.68
1-3/4	PKH-RG2HDG2171	168.09
2	PKH-RG2HDG2201	251.95
2-1/2	PKH-RG2HDG2251	381.57
3	PKH-RG2HDG2301	508.08

Gen II 2HD & 2HB Series



Urethane



PTFE Piston Seal

Piston Seal Kits (7,8,9) Urethane		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HH001	\$45.33
2	PKH-PK202HH001	46.87
2-1/2	PKH-PK252HH001	60.47
3-1/4	PKH-PK322HH001	86.9
4	PKH-PK402HH001	102.72
5	PKH-PK502HH001	133.24
6	PKH-PK602HH001	159.99

Piston Seal Kits (6,7,8,9) PTFE/Nitrile		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HF001	\$101.65
2	PKH-PK202HF001	101.24
2-1/2	PKH-PK252HF001	107.91
3-1/4	PKH-PK322HF001	122.35
4	PKH-PK402HF001	127.87
5	PKH-PK502HF001	168.46
6	PKH-PK602HF001	173.94

Piston Seal Kits (6,7,8,9) PTFE/Fluorocarbon		
Bore Size	Sales Part No	List Price
1-1/2	PKH-PK152HF005	\$95.52
2	PKH-PK202HF005	114.37
2-1/2	PKH-PK252HF005	124.46
3-1/4	PKH-PK322HF005	141.44
4	PKH-PK402HF005	144.52
5	PKH-PK502HF005	176.54
6	PKH-PK602HF005	229.29

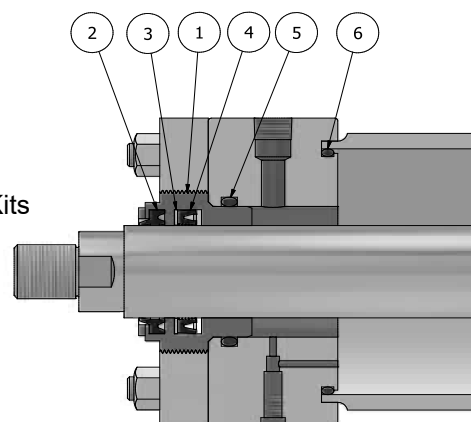
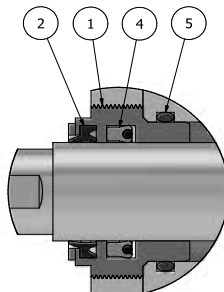
H, 2H, L, 2L, 3L, VH Series

Parker Series 3H (7 & 8 inch bore) rod kits*

Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Wear Ring
8	Piston Seal
9	Piston Seal Back-Up

*3-1/2 to 5-1/2 Rod Gland & Seal Kits



Rod Gland Kits (1,2,3,4,5) Nitrile

Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0051	\$100.69
5/8	PKH-RG2AHL0061	60.81
1	PKH-RG2AHL0101	74.56
1-3/8	PKH-RG2AHL0131	90.91
1-3/4	PKH-RG2AHL0171	105.28
2	PKH-RG2AHL0201	131.34
2-1/2	PKH-RG2AHL0251	179.19
3	PKH-RG2AHL0301	229.98
3-1/2" - 5-1/2" (1,2,4,5)		
3-1/2	PKH-RG2AHL0351	504.17
4	PKH-RG2AHL0401	613.14
4-1/2	PKH-RG2AHL0451	762.88
5	PKH-RG2AHL0501	848.77
5-1/2	PKH-RG2AHL0551	875.37

Rod Gland Kits (1,2,3,4,5) Fluorocarbon

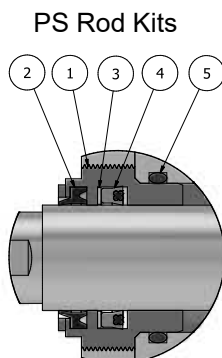
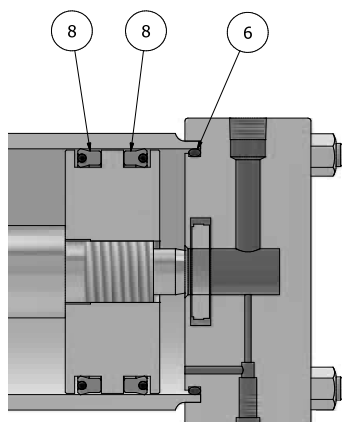
Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0055	\$129.43
5/8	PKH-RG2AHL0065	99.21
1	PKH-RG2AHL0105	112.27
1-3/8	PKH-RG2AHL0135	141.06
1-3/4	PKH-RG2AHL0175	154.04
2	PKH-RG2AHL0205	183.35
2-1/2	PKH-RG2AHL0255	238.11
3	PKH-RG2AHL0305	270.67
3-1/2" - 5-1/2" (1,2,4,5)		
3-1/2	PKH-RG2AHL0355	546.35
4	PKH-RG2AHL0405	643.77
4-1/2	PKH-RG2AHL0455	769.18
5	PKH-RG2AHL0505	960.78
5-1/2	PKH-RG2AHL0555	1048.58

Rod Gland Kits (1,2,3,4,5) Nitrile w/Loaded U-Seal

Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0051PS	\$53.92
5/8	PKH-RG2AHL0061PS	58.46
1	PKH-RG2AHL0101PS	72.54
1-3/8	PKH-RG2AHL0131PS	89.20
1-3/4	PKH-RG2AHL0171PS	100.61
2	PKH-RG2AHL0201PS	126.70
2-1/2	PKH-RG2AHL0251PS	194.42
3	PKH-RG2AHL0301PS	230.04
3-1/2	PKH-RG2AHL0351PS	479.68

Rod Gland Kits (1,2,3,4,5) Fluorocarbon w/ Loaded U-Seal

Rod Dia	Sales Part No	List Price
1/2	PKH-RG2AHL0055PS	\$65.64
5/8	PKH-RG2AHL0065PS	72.08
1	PKH-RG2AHL0105PS	87.22
1-3/8	PKH-RG2AHL0135PS	108.87
1-3/4	PKH-RG2AHL0175PS	126.29
2	PKH-RG2AHL0205PS	147.27
2-1/2	PKH-RG2AHL0255PS	238.45
3	PKH-RG2AHL0305PS	262.57
3-1/2	PKH-RG2AHL0355PS	483.50



Rod Seal Kits (2,3,4,5) Nitrile		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0051	\$11.67
5/8	PKH-RK2AHL0061	20.24
1	PKH-RK2AHL0101	14.63
1-3/8	PKH-RK2AHL0131	16.05
1-3/4	PKH-RK2AHL0171	18.58
2	PKH-RK2AHL0201	20.52
2-1/2	PKH-RK2AHL0251	23.04
3	PKH-RK2AHL0301	29.86
3-1/2" - 5-1/2" (2,4,5)		
3-1/2	PKH-RK2AHL0351	139.74
4	PKH-RK2AHL0401	173.58
4-1/2	PKH-RK2AHL0451	203.52
5	PKH-RK2AHL0501	253.41
5-1/2	PKH-RK2AHL0551	282.96

Rod Seal Kits (2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0055	\$48.48
5/8	PKH-RK2AHL0065	53.30
1	PKH-RK2AHL0105	59.88
1-3/8	PKH-RK2AHL0135	77.53
1-3/4	PKH-RK2AHL0175	80.76
2	PKH-RK2AHL0205	84.18
2-1/2	PKH-RK2AHL0255	92.12
3	PKH-RK2AHL0305	111.16
3-1/2" - 5-1/2" (2,4,5)		
3-1/2	PKH-RK2AHL0355	230.59
4	PKH-RK2AHL0405	267.19
4-1/2	PKH-RK2AHL0455	334.40
5	PKH-RK2AHL0505	390.72
5-1/2	PKH-RK2AHL0555	560.57

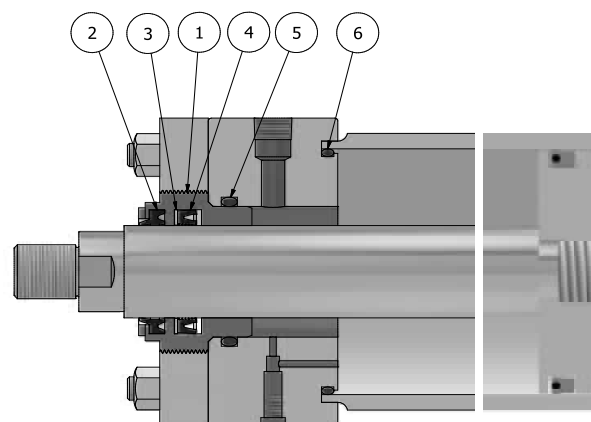
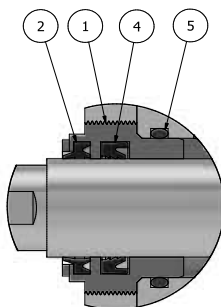
Rod Seal Kits (2,3,4,5) Nitrile Loaded U-Seal		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0051PS	\$16.11
5/8	PKH-RK2AHL0061PS	16.97
1	PKH-RK2AHL0101PS	24.18
1-3/8	PKH-RK2AHL0131PS	28.43
1-3/4	PKH-RK2AHL0171PS	24.45
2	PKH-RK2AHL0201PS	29.99
2-1/2	PKH-RK2AHL0251PS	45.82
3	PKH-RK2AHL0301PS	55.29
3-1/2	PKH-RK2AHL0351PS	109.41

Rod Seal Kits (2,3,4,5) Fluorocarbon Loaded U-Seal		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2AHL0055PS	\$27.84
5/8	PKH-RK2AHL0065PS	30.58
1	PKH-RK2AHL0105PS	38.86
1-3/8	PKH-RK2AHL0135PS	48.12
1-3/4	PKH-RK2AHL0175PS	50.12
2	PKH-RK2AHL0205PS	50.57
2-1/2	PKH-RK2AHL0255PS	89.84
3	PKH-RK2AHL0305PS	87.82
3-1/2	PKH-RK2AHL0355PS	113.23

H, 2H, L, 2L, 3L, VH Series

Parker Series 3H (7 & 8 inch bore) rod kits*

HLTS Rod Kits



***Rod Gland Kits (1,2,4,5) Urethane
Excluding 10 & 12 inch Bores for H and 2H Series**

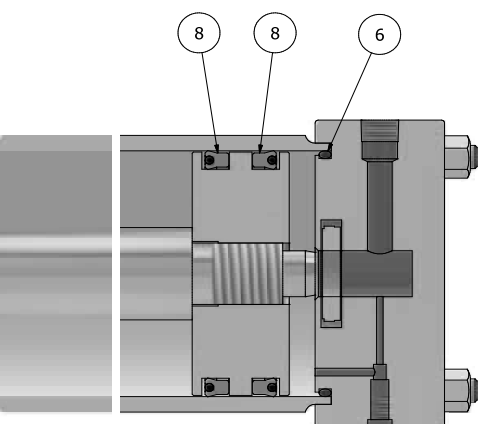
Rod Dia	Sales Part No	List Price
1/2	PKH-RG2HLTS051	\$147.62
5/8	PKH-RG2HLTS061	113.22
1	PKH-RG2HLTS101	128.45
1-3/8	PKH-RG2HLTS131	150.27
1-3/4	PKH-RG2HLTS171	161.27
2	PKH-RG2HLTS201	209.71
2-1/2	PKH-RG2HLTS251	272.14
3	PKH-RG2HLTS301	337.35
3-1/2	PKH-RG2HLTS351	477.32
4	PKH-RG2HLTS401	623.92
4-1/2	PKH-RG2HLTS451	678.63
5	PKH-RG2HLTS501	895.95
5-1/2	PKH-RG2HLTS551	924.60

***Rod Seal Kits (2,4,5)
Urethane
Excluding 10 & 12 inch Bores for H and 2H Series**

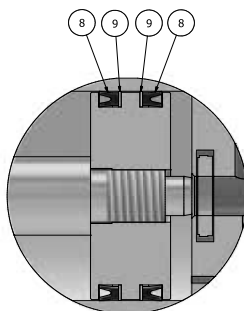
Rod Dia	Sales Part No	List Price
1/2	PKH-RK2HLTS051	\$34.80
5/8	PKH-RK2HLTS061	35.66
1	PKH-RK2HLTS101	42.14
1-3/8	PKH-RK2HLTS131	49.79
1-3/4	PKH-RK2HLTS171	57.85
2	PKH-RK2HLTS201	66.30
2-1/2	PKH-RK2HLTS251	70.91
3	PKH-RK2HLTS301	77.09
3-1/2	PKH-RK2HLTS351	92.37
4	PKH-RK2HLTS401	103.18
4-1/2	PKH-RK2HLTS451	112.68
5	PKH-RK2HLTS501	122.24
5-1/2	PKH-RK2HLTS551	134.21

Rod Glands (1) Bronze

Rod Dia	Sales Part No	List Price
1/2	PKH-RG-05	\$57.89
5/8	PKH-RG-06	34.88
1	PKH-RG-10	40.50
1-3/8	PKH-RG-13	56.18
1-3/4	PKH-RG-17	68.33
2	PKH-RG-20	83.53
2-1/2	PKH-RG-25	117.84
3	PKH-RG-30	162.91
3-1/2	PKH-RG-35	382.14
4	PKH-RG-40	389.31
4-1/2	PKH-RG-45	559.85
5	PKH-RG-50	648.60
5-1/2	PKH-RG-55	684.06



Lip Seal Piston Kits



Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Wear Ring
8	Piston Seal
9	Piston Seal Back-Up

Loaded U-Seal Piston Seal Kits (6,8) Urethane

Bore Dia	Sales Part No	List Price
1	PKH-PK102HLLP1	\$43.56
1-1/2	PKH-PK152HLLP1	30.06
2	PKH-PK202HLLP1	33.99
2-1/2	PKH-PK252HLLP1	35.68
3-1/4	PKH-PK322HLLP1	47.82
4	PKH-PK402HLLP1	55.56
5	PKH-PK502HLLP1	90.88
6	PKH-PK602HLLP1	136.71
6	PKH-PK602HLLP1-OLD	126.78
8	PKH-PK802HLLP1	166.78

Loaded U-Seal Piston Seal Kits (6,8) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HLLP5	\$112.27
2	PKH-PK202HLLP5	127.33
2-1/2	PKH-PK252HLLP5	134.65
3-1/4	PKH-PK322HLLP5	248.40
4	PKH-PK402HLLP5	291.30
5	PKH-PK502HLLP5	346.36
6	PKH-PK602HLLP5	698.14
6	PKH-PK602HLLP5-OLD	495.81
8	PKH-PK802HLLP5	651.56

Lip Seal Piston Seal Kits (6,8,9) Nitrile H, 2H, L, 2L, & 3L

Bore Dia	Sales Part No	List Price
1	PKH-PK102HLL01	\$21.34
1-1/2	PKH-PK152HLL01	15.70
2	PKH-PK202HLL01	20.01
2-1/2	PKH-PK252HLL01	23.20
3-1/4	PKH-PK322HLL01	28.77
4	PKH-PK402HLL01	37.82
5	PKH-PK502HLL01	44.01
6	PKH-PK602HLL01	57.20
7	PKH-PK702HLL01	151.99
8	PKH-PK802HLL01	166.47
10	PKH-PK902HLL01	296.80
12	PKH-PK922HLL01	402.74

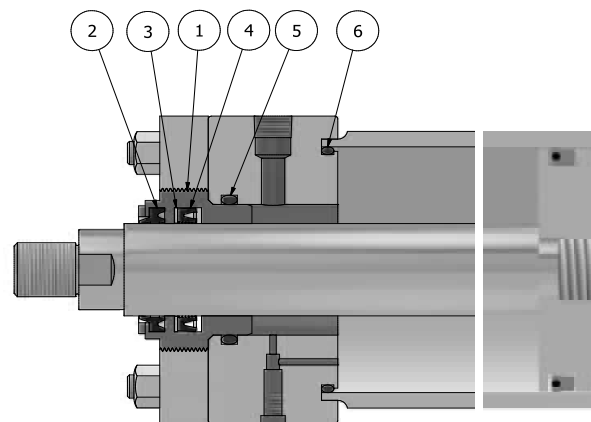
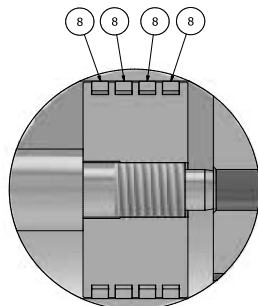
Lip Seal Piston Seal Kits (6,8,9) Fluorocarbon H, 2H, L, 2L, & 3L

Bore Dia	Sales Part No	List Price
1	PKH-PK102HLL05	\$74.49
1-1/2	PKH-PK152HLL05	77.36
2	PKH-PK202HLL05	120.59
2-1/2	PKH-PK252HLL05	122.18
3-1/4	PKH-PK322HLL05	131.68
4	PKH-PK402HLL05	164.43
5	PKH-PK502HLL05	196.48
6	PKH-PK602HLL05	262.69
7	PKH-PK702HLL05	416.46
8	PKH-PK802HLL05	569.76
10	PKH-PK902HLL05	890.42
12	PKH-PK922HLL05	1110.93

H, 2H, L, 2L, 3L, VH Series

Parker Series 3H (7 & 8 inch bore) rod kits*

Cast Iron Piston Kits

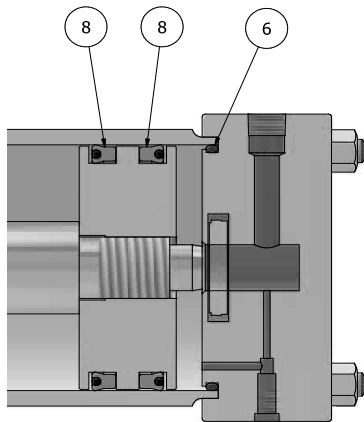


Cast Iron Piston Seal Kits (6,8) Nitrile H, 2H, L, 2L, & 3L

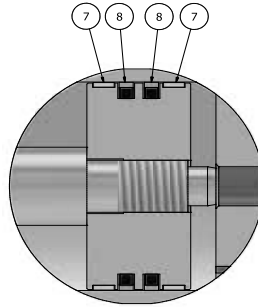
Bore Dia	Sales Part No	List Price
1	PKH-PR102H0001	\$126.03
1-1/2	PKH-PR152H0001	70.48
2	PKH-PR202H0001	75.20
2-1/2	PKH-PR252H0001	76.05
3-1/4	PKH-PR322H0001	82.24
4	PKH-PR402H0001	84.66
5	PKH-PR502H0001	111.51
6	PKH-PR602H0001	167.62
7	PKH-PR702H0001	187.32
8	PKH-PR802H0001	286.28
10	PKH-PR902H0001	782.13
12	PKH-PR922H0001	1252.59

Cast Iron Piston Seal Kits (6,8) Fluorocarbon
H, 2H, L, 2L, & 3L

Bore Dia	Sales Part No	List Price
1	PKH-PR102H0005	\$126.81
1-1/2	PKH-PR152H0005	81.65
2	PKH-PR202H0005	84.64
2-1/2	PKH-PR252H0005	85.81
3-1/4	PKH-PR322H0005	102.24
4	PKH-PR402H0005	104.17
5	PKH-PR502H0005	147.72
6	PKH-PR602H0005	178.77
7	PKH-PR702H0005	220.09
8	PKH-PR802H0005	305.37
10	PKH-PR902H0005	874.71
12	PKH-PR922H0005	1461.99



High Load Piston Kits



Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Wear Ring
8	Piston Seal
9	Piston Seal Back-Up

High Load Piston Seal Kits (6,7,8) Nitrile 2H & VH Series

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HK001	\$38.46
2	PKH-PK202HK001	49.92
2-1/2	PKH-PK252HK001	48.13
3-1/4	PKH-PK322HK001	63.55
4	PKH-PK402HK001	55.34
5	PKH-PK502HK001	62.11
6	PKH-PK602HK001	113.94
7	PKH-PK702HK001	251.08
8	PKH-PK802HK001	268.91
10	PKH-PK902HK001	503.78
12	PKH-PK922HK001	1031.01

High Load Piston Seal Kits (6,7,8) Fluorocarbon 2H & VH Series

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HK005	\$66.70
2	PKH-PK202HK005	75.51
2-1/2	PKH-PK252HK005	81.16
3-1/4	PKH-PK322HK005	178.77
4	PKH-PK402HK005	197.81
5	PKH-PK502HK005	\$218.91
6	PKH-PK602HK005	341.31
7	PKH-PK702HK005	506.24
8	PKH-PK802HK005	721.65
10	PKH-PK902HK005	1033.69
12	PKH-PK922HK005	1113.54

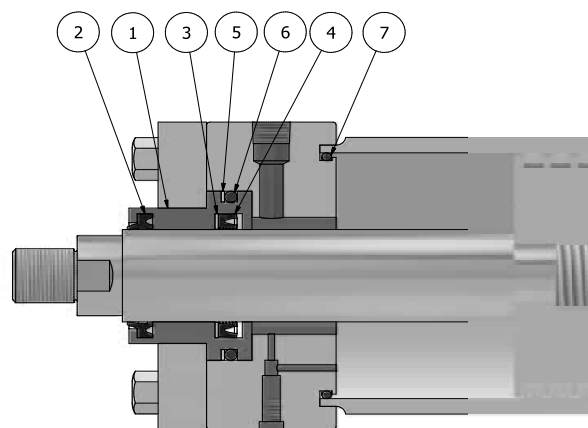
End Seal Kits (6) Nitrile

Bore	Sales Part No	List Price
1	PKH-CB102HL001	\$10.29
1-1/2	PKH-CB152HL001	10.55
2	PKH-CB202HL001	11.09
2-1/2	PKH-CB252HL001	11.57
3-1/4	PKH-CB322HL001	12.23
4	PKH-CB402HL001	12.77
5	PKH-CB502HL001	14.71
6	PKH-CB602HL001	17.51
7	PKH-CB702HL001	18.86
8	PKH-CB802HL001	21.42
10	PKH-CB902HL001	26.09

End Seal Kits (6) Fluorocarbon

Bore	Sales Part No	List Price
1	PKH-CB102HL005	\$14.45
1-1/2	PKH-CB152HL005	14.45
2	PKH-CB202HL005	24.70
2-1/2	PKH-CB252HL005	30.85
3-1/4	PKH-CB322HL005	37.51
4	PKH-CB402HL005	46.92
5	PKH-CB502HL005	67.74
6	PKH-CB602HL005	70.83
7	PKH-CB702HL005	101.63
8	PKH-CB802HL005	103.42
10	PKH-CB902HL005	114.49

Parker HD Series



Components

	Components
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal Back-Up
6	Head Seal
7	End Seal
8	Piston Seal
9	Piston Seal Back-Up
10	Piston Wear Ring

Rod Gland Kits (1,2,4,5,6) Urethane/Nitrile

Rod Dia	Sales Part No	List Price
5/8	PKH-RG1HDL0061	\$85.58
1	PKH-RG1HDL0101	110.19
1-3/8	PKH-RG1HDL0131	143.09
1-3/4	PKH-RG1HDL0171	169.10
2	PKH-RG1HDL0201	243.30
2-1/2	PKH-RG1HDL0251	325.76
3-1/2	PKH-RG1HDL0351	403.82

Rod Gland Kits (1,2,3,4,5,6) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	PKH-RG1HDL0065	\$103.72
1	PKH-RG1HDL0105	127.75
1-3/8	PKH-RG1HDL0135	173.19
1-3/4	PKH-RG1HDL0175	211.27
2	PKH-RG1HDL0205	286.56
2-1/2	PKH-RG1HDL0255	373.72
3-1/2	PKH-RG1HDL0355	459.01

Rod Glands (1) Bronze

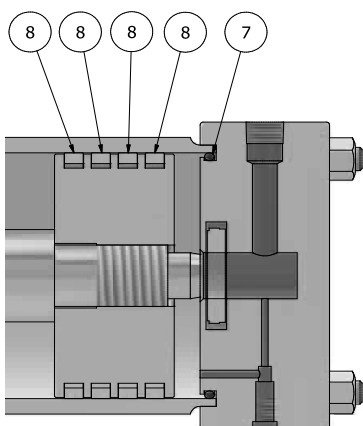
Rod Dia	Sales Part No	List Price
5/8	PKH-RGHD-06	\$68.02
1	PKH-RGHD-10	89.28
1-3/8	PKH-RGHD-13	117.35
1-3/4	PKH-RGHD-17	148.55
2	PKH-RGHD-20	218.76
2-1/2	PKH-RGHD-25	269.21
3-1/2	PKH-RGHD-35	330.59

Rod Seal Kits (2,4,5,6) Urethane/Nitrile

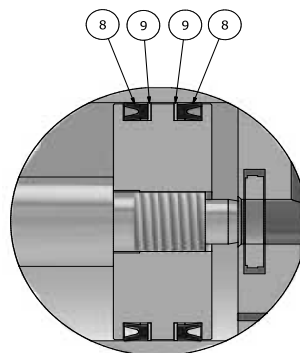
Rod Dia	Sales Part No	List Price
5/8	PKH-RK1HDL0061	\$16.25
1	PKH-RK1HDL0101	19.21
1-3/8	PKH-RK1HDL0131	23.51
1-3/4	PKH-RK1HDL0171	28.94
2	PKH-RK1HDL0201	36.41
2-1/2	PKH-RK1HDL0251	51.41
3-1/2	PKH-RK1HDL0351	66.93

Rod Seal Kits (2,3,4,5,6) Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	PKH-RK1HDL0065	\$34.41
1	PKH-RK1HDL0105	36.76
1-3/8	PKH-RK1HDL0135	53.62
1-3/4	PKH-RK1HDL0175	59.89
2	PKH-RK1HDL0205	63.64
2-1/2	PKH-RK1HDL0255	99.38
3-1/2	PKH-RK1HDL0355	122.14



Lip Seal Piston Kits



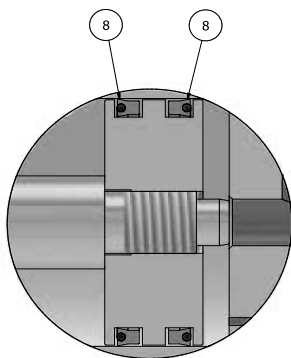
Cast Iron Piston Seal Kits (7,8) Nitrile		
Bore Dia	Sales Part No	List Price
1	PKH-PR102H0001	\$126.03
1-1/2	PKH-PR152H0001	70.48
2	PKH-PR202H0001	75.20
2-1/2	PKH-PR252H0001	76.05
3-1/4	PKH-PR322H0001	82.24
4	PKH-PR402H0001	84.66
5	PKH-PR502H0001	111.51
6	PKH-PR602H0001	167.62
7	PKH-PR702H0001	187.32
8	PKH-PR802H0001	286.28
10	PKH-PR902H0001	782.13
12	PKH-PR922H0001	1252.59

Cast Iron Piston Seal Kits (7,8) Fluorocarbon		
Bore Dia	Sales Part No	List Price
1	PKH-PR102H0005	\$126.81
1-1/2	PKH-PR152H0005	81.65
2	PKH-PR202H0005	84.64
2-1/2	PKH-PR252H0005	85.81
3-1/4	PKH-PR322H0005	102.24
4	PKH-PR402H0005	104.17
5	PKH-PR502H0005	147.72
6	PKH-PR602H0005	178.77
7	PKH-PR702H0005	220.09
8	PKH-PR802H0005	305.37
10	PKH-PR902H0005	874.71
12	PKH-PR922H0005	1461.99

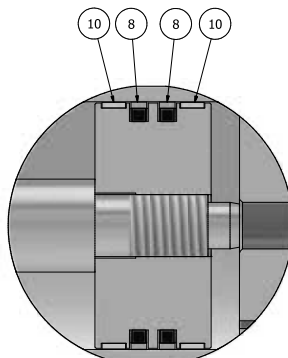
Lip Seal Piston Seal Kits (7,8,9) Nitrile		
Bore	Sales Part No	List Price
1	PKH-PK102HLL01	\$21.34
1-1/2	PKH-PK152HLL01	15.70
2	PKH-PK202HLL01	20.01
2-1/2	PKH-PK252HLL01	23.20
3-1/4	PKH-PK322HLL01	28.77
4	PKH-PK402HLL01	37.82
5	PKH-PK502HLL01	44.01
6	PKH-PK602HLL01	57.20
7	PKH-PK702HLL01	151.99
8	PKH-PK802HLL01	166.47
10	PKH-PK902HLL01	296.80
12	PKH-PK922HLL01	402.74

Lip Seal Piston Kits (7,8,9) Fluorocarbon		
Bore	Sales Part No	List Price
1	PKH-PK102HLL05	\$74.49
1-1/2	PKH-PK152HLL05	77.36
2	PKH-PK202HLL05	120.59
2-1/2	PKH-PK252HLL05	122.18
3-1/4	PKH-PK322HLL05	131.68
4	PKH-PK402HLL05	164.43
5	PKH-PK502HLL05	196.48
6	PKH-PK602HLL05	262.69
7	PKH-PK702HLL05	416.46
8	PKH-PK802HLL05	569.76
10	PKH-PK902HLL05	890.42
12	PKH-PK922HLL05	1110.93

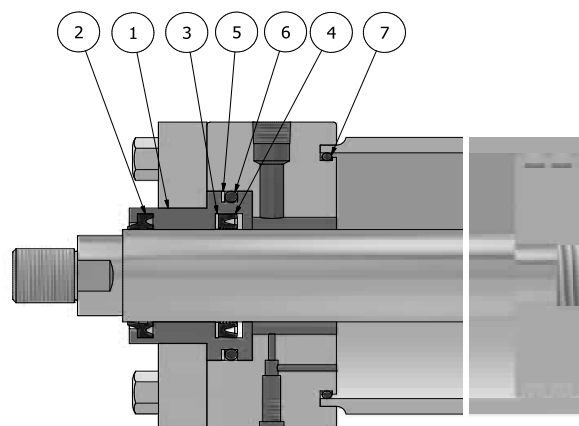
Parker HD Series



Loaded U-Seal Kits



High Load Kits



Loaded U-Seal Piston Seal Kits (7,8) Urethane

Bore Dia	Sales Part No	List Price
1	PKH-PK102HLLP1	\$43.56
1-1/2	PKH-PK152HLLP1	30.06
2	PKH-PK202HLLP1	33.99
2-1/2	PKH-PK252HLLP1	35.68
3-1/4	PKH-PK322HLLP1	47.82
4	PKH-PK402HLLP1	55.56
5	PKH-PK502HLLP1	90.88
6	PKH-PK602HLLP1	136.71
6	PKH-PK602HLLP1-OLD	126.78
8	PKH-PK802HLLP1	166.78

Loaded U-Seal Piston Kits (7,8) Fluorocarbon

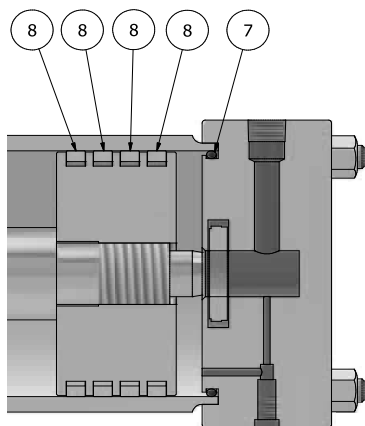
Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HLLP5	\$112.27
2	PKH-PK202HLLP5	127.33
2-1/2	PKH-PK252HLLP5	134.65
3-1/4	PKH-PK322HLLP5	248.40
4	PKH-PK402HLLP5	291.30
5	PKH-PK502HLLP5	346.36
6	PKH-PK602HLLP5	698.14
6	PKH-PK602HLLP5-OLD	495.81
8	PKH-PK802HLLP5	651.56

High Load Piston Seal Kits (7,8,10) Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HK001	\$38.46
2	PKH-PK202HK001	49.92
2-1/2	PKH-PK252HK001	48.13
3-1/4	PKH-PK322HK001	63.55
4	PKH-PK402HK001	55.34
5	PKH-PK502HK001	62.11
6	PKH-PK602HK001	113.94
7	PKH-PK702HK001	251.08
8	PKH-PK802HK001	268.91
10	PKH-PK902HK001	503.78
12	PKH-PK922HK001	1031.01

High Load Piston Seal Kits (7,8,10) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK152HK005	\$66.70
2	PKH-PK202HK005	75.51
2-1/2	PKH-PK252HK005	81.16
3-1/4	PKH-PK322HK005	178.77
4	PKH-PK402HK005	197.81
5	PKH-PK502HK005	218.91
6	PKH-PK602HK005	341.31
7	PKH-PK702HK005	506.24
8	PKH-PK802HK005	721.65
10	PKH-PK902HK005	1033.69
12	PKH-PK922HK005	1113.54

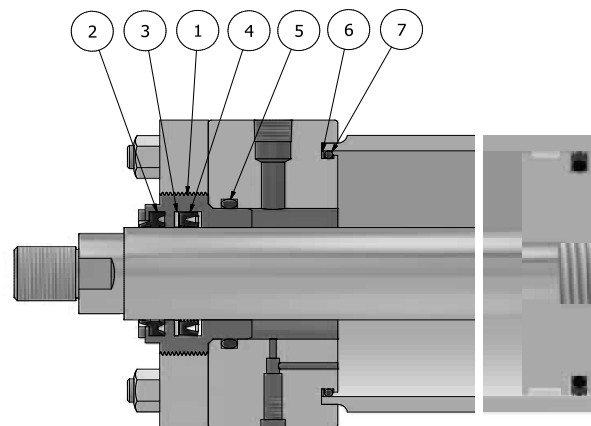


Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal Back-Up
6	Head Seal
7	End Seal
8	Piston Seal
9	Piston Seal Back-Up
10	Piston Wear Ring

End Seal Kits (7) Nitrile		
Bore	Sales Part No	List Price
1	PKH-CB102HL001	\$10.29
1-1/2	PKH-CB152HL001	10.55
2	PKH-CB202HL001	11.09
2-1/2	PKH-CB252HL001	11.57
3-1/4	PKH-CB322HL001	12.23
4	PKH-CB402HL001	12.77
5	PKH-CB502HL001	14.71
6	PKH-CB602HL001	17.51
7	PKH-CB702HL001	18.86
8	PKH-CB802HL001	21.42
10	PKH-CB902HL001	26.09

End Seal Kits (7) Fluorocarbon		
Bore	Sales Part No	List Price
1	PKH-CB102HL005	\$14.45
1-1/2	PKH-CB152HL005	14.45
2	PKH-CB202HL005	24.70
2-1/2	PKH-CB252HL005	30.85
3-1/4	PKH-CB322HL005	37.51
4	PKH-CB402HL005	46.92
5	PKH-CB502HL005	67.74
6	PKH-CB602HL005	70.83
7	PKH-CB702HL005	101.63
8	PKH-CB802HL005	103.42
10	PKH-CB902HL005	114.49

Parker HMI Series



Rod Gland Kits (1,2,4,5) Urethane

Rod Dia	Sales Part No	List Price
12 mm	PKH-RG2HM0121	\$95.21
14 mm	PKH-RG2HM0141	135.40
18 mm	PKH-RG2HM0181	132.07
22 mm	PKH-RG2HM0221	136.32
28 mm	PKH-RG2HM0281	139.51
36 mm	PKH-RG2HM0361	133.63
45 mm	PKH-RG2HM0451	148.02
56 mm	PKH-RG2HM0561	273.57
70 mm	PKH-RG2HM0701	402.16

Rod Glands (1) Bronze

Rod Dia	Sales Part No	List Price
12 mm	PKH-RGHM-012	\$44.12
14 mm	PKH-RGHM-014	77.09
18 mm	PKH-RGHM-018	82.81
22 mm	PKH-RGHM-022	80.96
28 mm	PKH-RGHM-028	87.84
36 mm	PKH-RGHM-036	85.42
45 mm	PKH-RGHM-045	81.00
56 mm	PKH-RGHM-056	184.50
70 mm	PKH-RGHM-070	304.69

Rod Seal Kits (2,4,5) Urethane

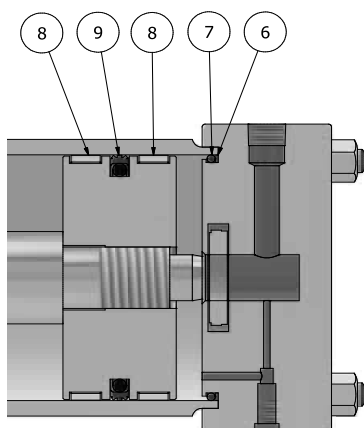
Rod Dia	Sales Part No	List Price
12 mm	PKH-RK2HM0121	\$43.23
14 mm	PKH-RK2HM0141	44.54
18 mm	PKH-RK2HM0181	34.49
22 mm	PKH-RK2HM0221	47.97
28 mm	PKH-RK2HM0281	21.66
36 mm	PKH-RK2HM0361	32.95
45 mm	PKH-RK2HM0451	52.61
56 mm	PKH-RK2HM0561	56.16
70 mm	PKH-RK2HM0701	43.13
90 mm	PKH-RK2HM0901	81.02
110 mm	PKH-RK2HM1101	104.59
140 mm	PKH-RK2HM1401	135.75

Rod Gland Kits (1,2,3,4,5) Fluorocarbon

Rod Dia	Sales Part No	List Price
12 mm	PKH-RG2HM0125	\$106.61
14 mm	PKH-RG2HM0145	146.61
18 mm	PKH-RG2HM0185	156.60
22 mm	PKH-RG2HM0225	164.13
28 mm	PKH-RG2HM0285	181.76
36 mm	PKH-RG2HM0365	176.47
45 mm	PKH-RG2HM0455	181.87
56 mm	PKH-RG2HM0565	339.03
70 mm	PKH-RG2HM0705	492.91

Rod Seal Kits (2,3*,4*,5) * 90-140mm Single Lip Rod U-seal w/ Bronze/ PTFE ID back-up ring Fluorocarbon

Rod Dia	Sales Part No	List Price
12 mm	PKH-RK2HM0125	\$54.71
14 mm	PKH-RK2HM0145	55.77
18 mm	PKH-RK2HM0185	58.99
22 mm	PKH-RK2HM0225	61.57
28 mm	PKH-RK2HM0285	73.99
36 mm	PKH-RK2HM0365	75.80
45 mm	PKH-RK2HM0455	86.34
56 mm	PKH-RK2HM0565	121.63
70 mm	PKH-RK2HM0705	133.86
90 mm	PKH-RK2HM0905	435.62
110 mm	PKH-RK2HM1105	582.24
140 mm	PKH-RK2HM1405	697.16



Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal Back-Up**
7	End Seal
8	Piston Wear Ring
9	Piston Seal

** in 63mm and larger Piston Kits

Piston Seal Kits (6,7,8,9) Urethane/Nitrile

Bore Dia	Sales Part No	List Price
25 mm	PKH-PN025HM001	\$27.17
32 mm	PKH-PN032HM001	31.90
40 mm	PKH-PN040HM001	46.85
50 mm	PKH-PN050HM001	50.96
63 mm	PKH-PN063HM001	61.06
80 mm	PKH-PN080HM001	67.16
100 mm	PKH-PN100HM001	89.49
125 mm	PKH-PN125HM001	154.78
160 mm	PKH-PN160HM001	259.29
200 mm	PKH-PN200HM001	273.12

Piston Seal Kits (6,7,8,9) Step-Cut Nylon/Fluorocarbon

Bore	Sales Part No	List Price
25 mm	PKH-PN025HM005	\$121.52
32 mm	PKH-PN032HM005	156.95
40 mm	PKH-PN040HM005	193.92
50 mm	PKH-PN050HM005	203.29
63 mm	PKH-PN063HM005	262.75
80 mm	PKH-PN080HM005	310.25
100 mm	PKH-PN100HM005	318.82
125 mm	PKH-PN125HM005	355.08
160 mm	PKH-PN160HM005	565.18
200 mm	PKH-PN200HM005	653.83

End Seal Kits (6,7) Nitrile

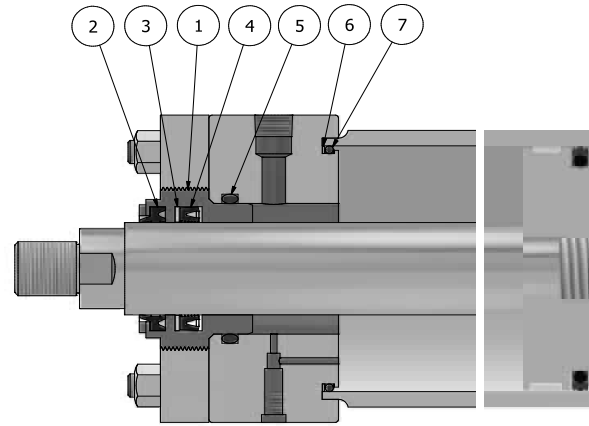
Bore Dia	Sales Part No	List Price
25 mm	PKH-CB025HM001	\$12.78
32 mm	PKH-CB032HM001	13.19
40 mm	PKH-CB040HM001	13.62
50 mm	PKH-CB050HM001	14.10
63 mm	PKH-CB063HM001	16.89
80 mm	PKH-CB080HM001	17.77
100 mm	PKH-CB100HM001	20.08
125 mm	PKH-CB125HM001	26.12
160 mm	PKH-CB160HM001	34.16
200 mm	PKH-CB200HM001	44.04

End Seal Kits (6,7) Fluorocarbon

Bore	Sales Part No	List Price
25 mm	PKH-CB025HM005	\$24.14
32 mm	PKH-CB032HM005	24.81
40 mm	PKH-CB040HM005	25.97
50 mm	PKH-CB050HM005	32.45
63 mm	PKH-CB063HM005	32.86
80 mm	PKH-CB080HM005	33.57
100 mm	PKH-CB100HM005	50.27
125 mm	PKH-CB125HM005	65.85
160 mm	PKH-CB160HM005	114.45
200 mm	PKH-CB200HM005	177.34

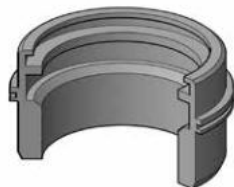
Parker MA Series

Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up

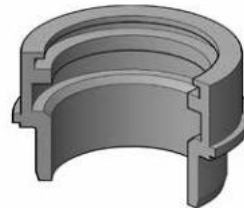


Rod Gland Kits (1,2,3,4,5) Nitrile		
Rod Dia	Sales Part No	List Price
5/8	PKH-RGL6948MA1	\$75.84
1	PKH-RGL6949MA1	63.63
1-3/8	PKH-RGL6950MA1	75.73

Rod Gland Kits (1,2,3,4,5) Fluorocarbon		
Rod Dia	Sales Part No	List Price
5/8	PKH-RGL6948MA5	\$86.01
1	PKH-RGL6949MA5	82.01
1-3/8	PKH-RGL6950MA5	101.31

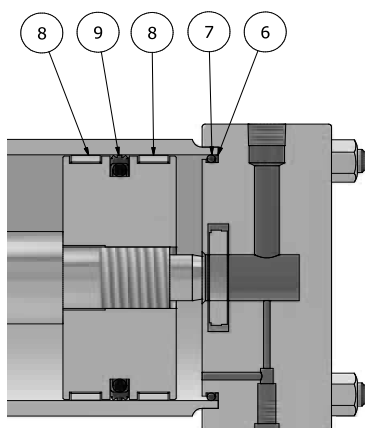


5/8" Rod Gland Profile



1" & 1-3/8" Rod Gland Profile

Rod Glands (1) Bronze		
Rod Dia	Sales Part No	List Price
5/8	PKH-RGMA-06	\$62.73
1	PKH-RGMA-10	49.64
1-3/8	PKH-RGMA-13	60.43



Rod & Piston Seal Kits (2,3,4,5,6,7,8) Nitrile

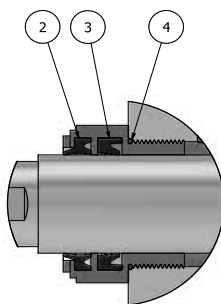
Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1-1/2	PKH-SKL7000MA1	\$33.11
5/8	2	PKH-SKL7001MA1	33.42
1	2	PKH-SKL7002MA1	33.98
5/8	2-1/2	PKH-SKL7003MA1	44.07
1	2-1/2	PKH-SKL7004MA1	36.71
1	3-1/4	PKH-SKL7005MA1	38.15
1-3/8	3-1/4	PKH-SKL7006MA1	43.21
1	4	PKH-SKL7007MA1	44.07
1-3/8	4	PKH-SKL7008MA1	47.54
1	5	PKH-SKL7009MA1	54.44
1-3/8	5	PKH-SKL7010MA1	59.54
1-3/8	6	PKH-SKL7098MA1	64.12

Rod & Piston Seal Kits (2,3,4,5,6,7,8) Fluorocarbon

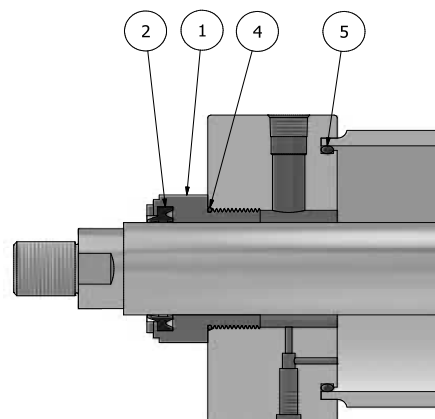
Rod Dia	Bore Dia	Sales Part No	List Price
5/8	1-1/2	PKH-SKL7000MA5	\$93.22
5/8	2	PKH-SKL7001MA5	97.51
1	2	PKH-SKL7002MA5	101.81
5/8	2-1/2	PKH-SKL7003MA5	119.22
1	2-1/2	PKH-SKL7004MA5	123.52
1	3-1/4	PKH-SKL7005MA5	130.67
1-3/8	3-1/4	PKH-SKL7006MA5	149.09
1	4	PKH-SKL7007MA5	155.00
1-3/8	4	PKH-SKL7008MA5	173.51
1	5	PKH-SKL7009MA5	188.93
1-3/8	5	PKH-SKL7010MA5	207.49
1-3/8	6	PKH-SKL7098MA5	256.01

Parker 2MA & 2ML Series

Components	
1	Rod Gland
2	Rod Wiper
3	Rod Seal
4	Head Seal
5	End Seal
6	Piston Seal
7	Piston Seal Back-Up
8	Piston Wear Ring



2ML Rod Kits



2MA Rod Gland Kits (1,2,4) Nitrile		
Rod Dia	Sales Part No	List Price
1/2	PKH-RG02MA0051	\$63.09
5/8	PKH-RG02MA0061	41.69
1	PKH-RG02MA0101	47.75
1-3/8	PKH-RG02MA0131	71.31
1-3/4	PKH-RG02MA0171	145.15

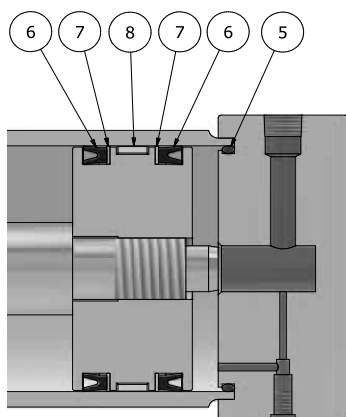
2MA Rod Gland Kits (1,2,4) Fluorocarbon		
Rod Dia	Sales Part No	List Price
1/2	PKH-RG02MA0055	\$67.22
5/8	PKH-RG02MA0065	66.56
1	PKH-RG02MA0105	73.76
1-3/8	PKH-RG02MA0135	106.62
1-3/4	PKH-RG02MA0175	162.81

2MA Rod Seal Kits (2,4) Nitrile		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK02MA0051	\$20.36
5/8	PKH-RK02MA0061	20.99
1	PKH-RK02MA0101	21.53
1-3/8	PKH-RK02MA0131	23.04
1-3/4	PKH-RK02MA0171	24.61

2MA Rod Seal Kits (2,4) Fluorocarbon		
Rod Dia	Sales Part No	List Price
1/2	PKH-RK02MA0055	\$30.44
5/8	PKH-RK02MA0065	31.27
1	PKH-RK02MA0105	32.29
1-3/8	PKH-RK02MA0135	40.43
1-3/4	PKH-RK02MA0175	50.85

2MA Rod Glands (1) Bronze		
Rod Dia	Sales Part No	List Price
1/2	PKH-RG02MA-05	\$55.76
5/8	PKH-RG02MA-06	41.09
1	PKH-RG02MA-10	51.43
1-3/8	PKH-RG02MA-13	74.36
1-3/4	PKH-RG02MA-17	117.10

2ML Rod Seal Kits (2,3,4) Urethane		
Rod Dia	Sales Part No	List Price
5/8	PKH-RK02ML0061	\$26.94
1	PKH-RK02ML0101	27.85
1-3/8	PKH-RK02ML0131	31.59
1-3/4	PKH-RK02ML0171	36.10



2MA Piston Seal Kits (5,6,7,8)
Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK1502MA01	\$37.96
2	PKH-PK2002MA01	38.47
2-1/2	PKH-PK2502MA01	41.25
3-1/4	PKH-PK3202MA01	49.60
4	PKH-PK4002MA01	60.81
5	PKH-PK5002MA01	78.67
6	PKH-PK6002MA01	105.20
8	PKH-PK8002MA01	185.71

2MA Piston Seal Kits (5,6,7,8)
Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK1502MA05	\$73.95
2	PKH-PK2002MA05	79.20
2-1/2	PKH-PK2502MA05	105.13
3-1/4	PKH-PK3202MA05	129.95
4	PKH-PK4002MA05	147.22
5	PKH-PK5002MA05	222.77
6	PKH-PK6002MA05	315.53
8	PKH-PK8002MA05	527.61

2ML Piston Seal Kits (5,6,7,8)
Nitrile

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK1502ML01	\$45.96
2	PKH-PK2002ML01	34.78
2-1/2	PKH-PK2502ML01	36.42
3-1/4	PKH-PK3202ML01	43.39
4	PKH-PK4002ML01	62.21
5	PKH-PK5002ML01	103.15
6	PKH-PK6002ML01	131.96
8	PKH-PK8002ML01	224.84

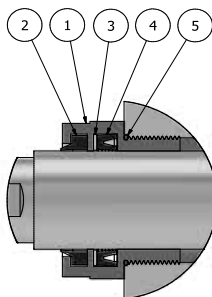
2MA & 2ML End Seal Kits (5)
Nitrile

Bore	Sales Part No	List Price
1-1/2	PKH-CB1502MA01	\$10.04
2	PKH-CB2002MA01	10.04
2-1/2	PKH-CB2502MA01	10.33
3-1/4	PKH-CB3202MA01	14.16
4	PKH-CB4002MA01	22.20
5	PKH-CB5002MA01	29.08
6	PKH-CB6002MA01	38.67
8	PKH-CB8002MA01	47.26

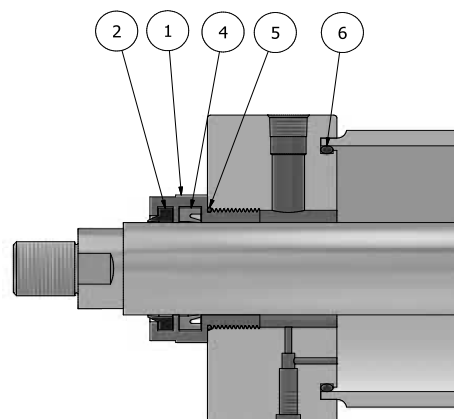
2MA End Seal Kits (5)
Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	PKH-CB1502MA05	10.40
2	PKH-CB2002MA05	17.30
2-1/2	PKH-CB2502MA05	17.30
3-1/4	PKH-CB3202MA05	22.96
4	PKH-CB4002MA05	25.23
5	PKH-CB5002MA05	46.57
6	PKH-CB6002MA05	75.66
8	PKH-CB8002MA05	77.93

Parker 4MA Series



Flurocarbon Rod Kits



Rod Gland Kits (1,2,4,5)
Nitrile

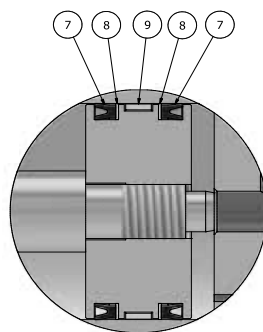
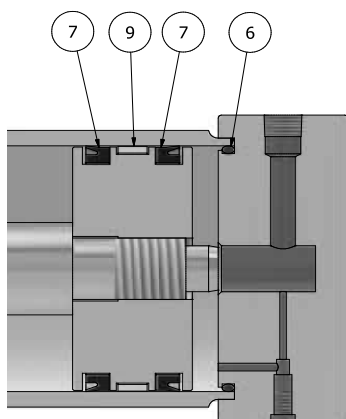
Rod Dia	Sales Part No	List Price
5/8	PKH-RG04MA0061	\$59.43
1	PKH-RG04MA0101	62.31
1-3/8	PKH-RG04MA0131	75.77

Rod Gland Kits (1,2,3,4,5)
Fluorocarbon

Rod Dia	Sales Part No	List Price
5/8	PKH-RG04MA0065	\$76.91
1	PKH-RG04MA0105	75.47
1-3/8	PKH-RG04MA0135	94.55

Rod Glands (1)
Bronze

Rod Dia	Sales Part No	List Price
5/8	PKH-RG04MA-06	\$51.19
1	PKH-RG04MA-10	54.83
1-3/8	PKH-RG04MA-13	91.34



Flurocarbon Piston Kits

Components

1	Rod Gland
2	Rod Wiper
3	Rod Seal Back-Up
4	Rod Seal
5	Head Seal
6	End Seal
7	Piston Seal
8	Piston Seal Back-Up
9	Piston Wear Ring

Piston Seal Kits (6,7,9) Nitrile

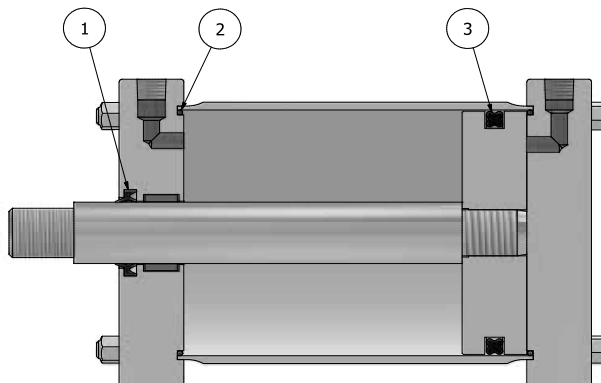
Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK1504MA01	\$26.64
2	PKH-PK2004MA01	27.65
2-1/2	PKH-PK2504MA01	30.17
3-1/4	PKH-PK3254MA01	42.41
4	PKH-PK4004MA01	46.95
5	PKH-PK5004MA01	57.48

Piston Seal Kits (6,7,8,9) Fluorocarbon

Bore Dia	Sales Part No	List Price
1-1/2	PKH-PK1504MA05	\$26.63
2	PKH-PK2004MA05	43.57
2-1/2	PKH-PK2504MA05	37.80
3-1/4	PKH-PK3254MA05	70.87
4	PKH-PK4004MA05	61.60
5	PKH-PK5004MA05	95.99

Parker VP Series

Components	
1	Rod Wiper
2	End Seal
3	Piston Seal



Cast Iron Piston Seal Kits (7,8) Nitrile

Rod Dia	Bore Dia	Sales Part No	List Price
1	6	PKH-KT060VP101	\$38.24
1	7	PKH-KT070VP101	42.48
1	8	PKH-KT080VP101	64.65
1	10	PKH-KT100VP101	80.33

PARKER - NET PRICE

Sales Part Number	Description	Rod Size	ID	OD	W	Net Price
PKH-069590	Gland Wrench	1/2, 5/8, 12mm, 14mm	11/16	1-1/8	1-3/8	\$50.14
PKH-069591	Gland Wrench	1, 22mm	1-1/16	1-5/8	1-1/2	30.29
PKH-069592	Gland Wrench	1-3/8, 36mm	1-7/16	1-7/8	1-5/8	58.65
PKH-069593	Gland Wrench	1-3/4, 45mm	1-13/16	2-1/4	1-5/8	55.76
PKH-069594	Gland Wrench	2	2-1/16	2-1/2	2	69.24
PKH-069595	Gland Wrench	2-1/2, 56mm	2-9/16	3	2-1/8	109.35
PKH-069596	Gland Wrench	70mm	2-15/16	3-1/2	2-3/8	119.32
PKH-084765	Gland Wrench	18mm	13/16	1-1/4	1-7/16	44.77
PKH-084766	Gland Wrench	28mm	1-1/4	1-11/16	1-9/16	42.83

PARKER - LIST PRICE

Sales Part Number	Rod Size	Bore Size	List Price
PKH-CB025HM001		25 mm	\$12.78
PKH-CB025HM005		25 mm	24.14
PKH-CB032HM001		32 mm	13.19
PKH-CB032HM005		32 mm	24.81
PKH-CB040HM001		40 mm	13.62
PKH-CB040HM005		40 mm	25.97
PKH-CB050HM001		50 mm	14.10
PKH-CB050HM005		50 mm	32.45
PKH-CB063HM001		63 mm	16.89
PKH-CB063HM005		63 mm	32.86
PKH-CB080HM001		80 mm	17.77
PKH-CB080HM005		80 mm	33.57
PKH-CB100HM001		100 mm	20.08
PKH-CB100HM005		100 mm	50.27
PKH-CB102HL001		1	10.29
PKH-CB102HL005		1	14.45
PKH-CB125HM001		125 mm	26.12
PKH-CB125HM005		125 mm	65.85
PKH-CB1502MA01		1-1/2	10.04
PKH-CB1502MA05		1-1/2	10.40
PKH-CB152HL001		1-1/2	10.55
PKH-CB152HL005		1-1/2	14.45
PKH-CB160HM001		160 mm	34.16
PKH-CB160HM005		160 mm	114.45
PKH-CB2002MA01		2	10.04
PKH-CB2002MA05		2	17.30
PKH-CB200HM001		200 mm	44.04
PKH-CB200HM005		200 mm	177.34
PKH-CB202HL001		2	11.09
PKH-CB202HL005		2	24.70
PKH-CB2502MA01		2-1/2	10.33
PKH-CB2502MA05		2-1/2	17.30
PKH-CB252HL001		2-1/2	11.57
PKH-CB252HL005		2-1/2	30.85
PKH-CB3202MA01		3-1/4	14.16
PKH-CB3202MA05		3-1/4	22.96
PKH-CB322HL001		3-1/4	12.23
PKH-CB322HL005		3-1/4	37.51
PKH-CB4002MA01		4	22.20
PKH-CB4002MA05		4	25.23

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-CB402HL001		4	\$12.77
PKH-CB402HL005		4	46.92
PKH-CB5002MA01		5	29.08
PKH-CB5002MA05		5	46.57
PKH-CB502HL001		5	14.71
PKH-CB502HL005		5	67.74
PKH-CB6002MA01		6	38.67
PKH-CB6002MA05		6	75.66
PKH-CB602HL001		6	17.51
PKH-CB602HL005		6	70.83
PKH-CB702HL001		7	18.86
PKH-CB702HL005		7	101.63
PKH-CB8002MA01		8	47.26
PKH-CB8002MA05		8	77.93
PKH-CB802HL001		8	21.42
PKH-CB802HL005		8	103.42
PKH-CB902HL001		9	26.09
PKH-CB902HL005		9	114.49
PKH-KT060VP101	1	6	38.24
PKH-KT070VP101	1	7	42.48
PKH-KT080VP101	1	8	64.65
PKH-KT100VP101	1	10	80.33
PKH-PF063HM001		63 mm	62.73
PKH-PK1002A001		1	14.46
PKH-PK1002A005		1	54.90
PKH-PK1002AN01		1	29.71
PKH-PK102HLL01		1	21.34
PKH-PK102HLL05		1	74.49
PKH-PK102HLLP1		1	43.56
PKH-PK1502A001		1-1/2	16.99
PKH-PK1502A005		1-1/2	77.36
PKH-PK1502AN01		1-1/2	33.01
PKH-PK1502MA01		1-1/2	37.96
PKH-PK1502MA05		1-1/2	73.95
PKH-PK1502ML01		1-1/2	45.96
PKH-PK1504MA01		1-1/2	26.64
PKH-PK1504MA05		1-1/2	26.63
PKH-PK152HF001		1-1/2	101.65
PKH-PK152HF005		1-1/2	95.52
PKH-PK152HH001		1-1/2	45.33
PKH-PK152HK001		1-1/2	38.46
PKH-PK152HK005		1-1/2	66.70
PKH-PK152HLL01		1-1/2	15.70
PKH-PK152HLL05		1-1/2	77.36
PKH-PK152HLLP1		1-1/2	30.06
PKH-PK152HLLP5		1-1/2	112.27
PKH-PK2002A001		2	20.01
PKH-PK2002A005		2	88.27
PKH-PK2002AN01		2	36.90
PKH-PK2002MA01		2	38.47
PKH-PK2002MA05		2	79.20
PKH-PK2002ML01		2	34.78
PKH-PK2004MA01		2	27.65
PKH-PK2004MA05		2	43.57
PKH-PK202HF001		2	101.24
PKH-PK202HF005		2	114.37
PKH-PK202HH001		2	46.87

PARKER

Sales Part Number	Rod Size	Bore Size	List Price
PKH-PK202HK001		2	\$49.92
PKH-PK202HK005		2	75.51
PKH-PK202HLL01		2	20.01
PKH-PK202HLL05		2	120.59
PKH-PK202HLLP1		2	33.99
PKH-PK202HLLP5		2	127.33
PKH-PK2502A001		2-1/2	23.20
PKH-PK2502A005		2-1/2	123.89
PKH-PK2502AN01		2-1/2	45.04
PKH-PK2502MA01		2-1/2	41.25
PKH-PK2502MA05		2-1/2	105.13
PKH-PK2502ML01		2-1/2	36.42
PKH-PK2504MA01		2-1/2	30.17
PKH-PK2504MA05		2-1/2	37.80
PKH-PK252HF001		2-1/2	107.91
PKH-PK252HF005		2-1/2	124.46
PKH-PK252HH001		2-1/2	60.47
PKH-PK252HK001		2-1/2	48.13
PKH-PK252HK005		2-1/2	81.16
PKH-PK252HLL01		2-1/2	23.20
PKH-PK252HLL05		2-1/2	122.18
PKH-PK252HLLP1		2-1/2	35.68
PKH-PK252HLLP5		2-1/2	134.65
PKH-PK3202A001		3-1/4	28.77
PKH-PK3202A005		3-1/4	144.58
PKH-PK3202AN01		3-1/4	58.81
PKH-PK3202MA01		3-1/4	49.60
PKH-PK3202MA05		3-1/4	129.95
PKH-PK3202ML01		3-1/4	43.39
PKH-PK322HF001		3-1/4	122.35
PKH-PK322HF005		3-1/4	141.44
PKH-PK322HH001		3-1/4	86.9
PKH-PK322HK001		3-1/4	63.55
PKH-PK322HK005		3-1/4	178.77
PKH-PK322HLL01		3-1/4	28.77
PKH-PK322HLL05		3-1/4	131.68
PKH-PK322HLLP1		3-1/4	47.82
PKH-PK322HLLP5		3-1/4	248.40
PKH-PK3254MA01		3-1/4	42.41
PKH-PK3254MA05		3-1/4	70.87
PKH-PK4002A001		4	37.82
PKH-PK4002A005		4	155.84
PKH-PK4002AN01		4	72.81
PKH-PK4002MA01		4	60.81
PKH-PK4002MA05		4	147.22
PKH-PK4002ML01		4	62.21
PKH-PK4004MA01		4	46.95
PKH-PK4004MA05		4	61.60
PKH-PK402HF001		4	127.87
PKH-PK402HF005		4	144.52
PKH-PK402HH001		4	102.72
PKH-PK402HK001		4	55.34
PKH-PK402HK005		4	197.81
PKH-PK402HLL01		4	37.82
PKH-PK402HLL05		4	164.43
PKH-PK402HLLP1		4	55.56
PKH-PK402HLLP5		4	291.30

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-PK5002A001		5	\$44.11
PKH-PK5002A005		5	197.78
PKH-PK5002AN01		5	87.38
PKH-PK5002MA01		5	78.67
PKH-PK5002MA05		5	222.77
PKH-PK5002ML01		5	103.15
PKH-PK5004MA01		5	57.48
PKH-PK5004MA05		5	95.99
PKH-PK502HF001		5	168.46
PKH-PK502HF005		5	176.54
PKH-PK502HH001		5	133.24
PKH-PK502HK001		5	62.11
PKH-PK502HK005		5	218.91
PKH-PK502HLL01		5	44.01
PKH-PK502HLL05		5	196.48
PKH-PK502HLLP1		5	90.88
PKH-PK502HLLP5		5	346.36
PKH-PK6002A001		6	57.31
PKH-PK6002A005		6	262.87
PKH-PK6002AN01		6	139.23
PKH-PK6002MA01		6	105.20
PKH-PK6002MA05		6	315.53
PKH-PK6002ML01		6	131.96
PKH-PK602HF001		6	173.94
PKH-PK602HF005		6	229.29
PKH-PK602HH001		6	159.99
PKH-PK602HK001		6	113.94
PKH-PK602HK005		6	341.31
PKH-PK602HLL01		6	57.20
PKH-PK602HLL05		6	262.69
PKH-PK602HLLP1		6	136.71
PKH-PK602HLLP1-OLD		6	126.78
PKH-PK602HLLP5		6	698.14
PKH-PK602HLLP5-OLD		6	495.81
PKH-PK7002A001		7	142.98
PKH-PK7002A005		7	416.67
PKH-PK7002AN01		7	151.25
PKH-PK702HK001		7	251.08
PKH-PK702HK005		7	506.24
PKH-PK702HLL01		7	151.99
PKH-PK702HLL05		7	416.46
PKH-PK8002A001		8	166.47
PKH-PK8002A005		8	569.76
PKH-PK8002AN01		8	216.10
PKH-PK8002MA01		8	185.71
PKH-PK8002MA05		8	527.61
PKH-PK8002ML01		8	224.84
PKH-PK802HK001		8	268.91
PKH-PK802HK005		8	721.65
PKH-PK802HLL01		8	166.47
PKH-PK802HLL05		8	569.76
PKH-PK802HLLP1		8	166.78
PKH-PK802HLLP5		8	651.56
PKH-PK9002A001		10	246.55
PKH-PK9002A005		10	723.18
PKH-PK9002AN01		10	322.73
PKH-PK902HK001		10	503.78

PARKER

Sales Part Number	Rod Size	Bore Size	List Price
PKH-PK902HK005		10	\$1033.69
PKH-PK902HLL01		10	296.80
PKH-PK902HLL05		10	890.42
PKH-PK9202A001		12	334.92
PKH-PK9202A005		12	1110.93
PKH-PK9202AN01		12	591.14
PKH-PK922HK001		12	1031.01
PKH-PK922HK005		12	1113.54
PKH-PK922HLL01		12	402.74
PKH-PK922HLL05		12	1110.93
PKH-PK9402A001		14	518.05
PKH-PK9402A005		14	1815.04
PKH-PL040HM005		40 mm	109.82
PKH-PN025HM001		25 mm	27.17
PKH-PN025HM005		25 mm	121.52
PKH-PN032HM001		32 mm	31.90
PKH-PN032HM005		32 mm	156.95
PKH-PN040HM001		40 mm	46.85
PKH-PN040HM005		40 mm	193.92
PKH-PN050HM001		50 mm	50.96
PKH-PN050HM005		50 mm	203.29
PKH-PN063HM001		63 mm	61.06
PKH-PN063HM005		63 mm	262.75
PKH-PN080HM001		80 mm	67.16
PKH-PN080HM005		80 mm	310.25
PKH-PN100HM001		100 mm	89.49
PKH-PN100HM005		100 mm	318.82
PKH-PN125HM001		125 mm	154.78
PKH-PN125HM005		125 mm	355.08
PKH-PN160HM001		160 mm	259.29
PKH-PN160HM005		160 mm	565.18
PKH-PN200HM001		200 mm	273.12
PKH-PN200HM005		200 mm	653.83
PKH-PR102H0001		1	126.03
PKH-PR102H0005		1	126.81
PKH-PR152H0001		1-1/2	70.48
PKH-PR152H0005		1-1/2	81.65
PKH-PR202H0001		2	75.20
PKH-PR202H0005		2	84.64
PKH-PR252H0001		2-1/2	76.05
PKH-PR252H0005		2-1/2	85.81
PKH-PR322H0001		3-1/4	82.24
PKH-PR322H0005		3-1/4	102.24
PKH-PR402H0001		4	84.66
PKH-PR402H0005		4	104.17
PKH-PR502H0001		5	111.51
PKH-PR502H0005		5	147.72
PKH-PR602H0001		6	167.62
PKH-PR602H0005		6	178.77
PKH-PR702H0001		7	187.32
PKH-PR702H0005		7	220.09
PKH-PR802H0001		8	286.28
PKH-PR802H0005		8	305.37
PKH-PR902H0001		10	782.13
PKH-PR902H0005		10	874.71
PKH-PR922H0001		12	1252.59
PKH-PR922H0005		12	1461.99

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-RG02MA0051	1/2		\$63.09
PKH-RG02MA0055	1/2		67.22
PKH-RG02MA0061	5/8		41.69
PKH-RG02MA0065	5/8		66.56
PKH-RG02MA0101	1		47.75
PKH-RG02MA0105	1		73.76
PKH-RG02MA0131	1-3/8		71.31
PKH-RG02MA0135	1-3/8		106.62
PKH-RG02MA0171	1-3/4		145.15
PKH-RG02MA0175	1-3/4		162.81
PKH-RG02MA-05	1/2		55.76
PKH-RG02MA-06	5/8		41.09
PKH-RG02MA-10	1		51.43
PKH-RG02MA-13	1-3/8		74.36
PKH-RG02MA-17	1-3/4		117.10
PKH-RG04MA0061	5/8		59.43
PKH-RG04MA0065	5/8		76.91
PKH-RG04MA0101	1		62.31
PKH-RG04MA0105	1		75.47
PKH-RG04MA0131	1-3/8		75.77
PKH-RG04MA0135	1-3/8		94.55
PKH-RG04MA-06	5/8		51.19
PKH-RG04MA-10	1		54.83
PKH-RG04MA-13	1-3/8		91.34
PKH-RG-05	1/2		57.89
PKH-RG-06	5/8		34.88
PKH-RG-10	1		40.50
PKH-RG-13	1-3/8		56.18
PKH-RG-17	1-3/4		68.33
PKH-RG1HDL0061	5/8		85.58
PKH-RG1HDL0065	5/8		103.72
PKH-RG1HDL0101	1		110.19
PKH-RG1HDL0105	1		127.75
PKH-RG1HDL0131	1-3/8		143.09
PKH-RG1HDL0135	1-3/8		173.19
PKH-RG1HDL0171	1-3/4		169.10
PKH-RG1HDL0175	1-3/4		211.27
PKH-RG1HDL0201	2		243.30
PKH-RG1HDL0205	2		286.56
PKH-RG1HDL0251	2-1/2		325.76
PKH-RG1HDL0255	2-1/2		373.72
PKH-RG1HDL0351	3-1/2		403.82
PKH-RG1HDL0355	3-1/2		459.01
PKH-RG-20	2		83.53
PKH-RG-25	2-1/2		117.84
PKH-RG2AHL0051	1/2		100.69
PKH-RG2AHL0051PS	1/2		53.92
PKH-RG2AHL0055	1/2		129.43
PKH-RG2AHL0055PS	1/2		65.64
PKH-RG2AHL0061	5/8		60.81
PKH-RG2AHL0061PS	5/8		58.46
PKH-RG2AHL0065	5/8		99.21
PKH-RG2AHL0065PS	5/8		72.08
PKH-RG2AHL0101	1		74.56
PKH-RG2AHL0101PS	1		72.54
PKH-RG2AHL0105	1		112.27
PKH-RG2AHL0105PS	1		87.22

PARKER

Sales Part Number	Rod Size	Bore Size	List Price
PKH-RG2AHL0131	1-3/8		\$90.91
PKH-RG2AHL0131PS	1-3/8		89.20
PKH-RG2AHL0135	1-3/8		141.06
PKH-RG2AHL0135PS	1-3/8		108.87
PKH-RG2AHL0171	1-3/4		105.28
PKH-RG2AHL0171PS	1-3/4		100.61
PKH-RG2AHL0175	1-3/4		154.04
PKH-RG2AHL0175PS	1-3/4		126.29
PKH-RG2AHL0201	2		131.34
PKH-RG2AHL0201PS	2		126.70
PKH-RG2AHL0205	2		183.35
PKH-RG2AHL0205PS	2		147.27
PKH-RG2AHL0251	2-1/2		179.19
PKH-RG2AHL0251PS	2-1/2		194.42
PKH-RG2AHL0255	2-1/2		238.11
PKH-RG2AHL0255PS	2-1/2		238.45
PKH-RG2AHL0301	3		229.98
PKH-RG2AHL0301PS	3		230.04
PKH-RG2AHL0305	3		270.67
PKH-RG2AHL0305PS	3		262.57
PKH-RG2AHL0351	3-1/2		504.17
PKH-RG2AHL0351PS	3-1/2		479.68
PKH-RG2AHL0355	3-1/2		546.35
PKH-RG2AHL0355PS	3-1/2		483.50
PKH-RG2AHL0401	4		613.14
PKH-RG2AHL0405	4		643.77
PKH-RG2AHL0451	4-1/2		762.88
PKH-RG2AHL0455	4-1/2		769.18
PKH-RG2AHL0501	5		848.77
PKH-RG2AHL0505	5		960.78
PKH-RG2AHL0551	5-1/2		875.37
PKH-RG2AHL0555	5-1/2		1048.58
PKH-RG2AN00051	1/2		65.47
PKH-RG2AN00061	5/8		68.15
PKH-RG2AN00101	1		76.59
PKH-RG2AN00131	1-3/8		81.47
PKH-RG2AN00171	1-3/4		102.38
PKH-RG2AN00201	2		124.65
PKH-RG2AN00251	2-1/2		203.91
PKH-RG2AN00301	3		309.88
PKH-RG2AN00351	3-1/2		440.76
PKH-RG2AN00401	4		590.38
PKH-RG2AN00501	5		872.64
PKH-RG2AN00551	5-1/2		977.70
PKH-RG2HLG2061	5/8		49.74
PKH-RG2HLG2065	5/8		72.68
PKH-RG2HLG2101	1		64.12
PKH-RG2HLG2105	1		77.41
PKH-RG2HLG2131	1-3/8		84.86
PKH-RG2HLG2135	1-3/8		111.12
PKH-RG2HLG2171	1-3/4		98.53
PKH-RG2HLG2175	1-3/4		132.53
PKH-RG2HLG2201	2		136.1
PKH-RG2HLG2205	2		169.58
PKH-RG2HLG2251	2-1/2		185.82
PKH-RG2HLG2255	2-1/2		248.32
PKH-RG2HLG2301	3		220.15

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-RG2HLG2305	3		\$298.82
PKH-RG2HLG2351	3-1/2		431.45
PKH-RG2HLG2355	3-1/2		516.14
PKH-RG2HLG2401	4		453.62
PKH-RG2HLG2405	4		514.32
PKH-RG2HLG2451	4-1/2		1098.32
PKH-RG2HLTS051	1/2		147.62
PKH-RG2HLTS061	5/8		113.22
PKH-RG2HLTS101	1		128.45
PKH-RG2HLTS131	1-3/8		150.27
PKH-RG2HLTS171	1-3/4		161.27
PKH-RG2HLTS201	2		209.71
PKH-RG2HLTS251	2-1/2		272.14
PKH-RG2HLTS301	3		337.35
PKH-RG2HLTS351	3-1/2		477.32
PKH-RG2HLTS401	4		623.92
PKH-RG2HLTS451	4-1/2		678.63
PKH-RG2HLTS501	5		895.95
PKH-RG2HLTS551	5-1/2		924.60
PKH-RG2HM0121	12 mm		95.21
PKH-RG2HM0125	12 mm		106.61
PKH-RG2HM0141	14 mm		135.40
PKH-RG2HM0145	14 mm		146.61
PKH-RG2HM0181	18 mm		132.07
PKH-RG2HM0185	18 mm		156.60
PKH-RG2HM0221	22 mm		136.32
PKH-RG2HM0225	22 mm		164.13
PKH-RG2HM0281	28 mm		139.51
PKH-RG2HM0285	28 mm		181.76
PKH-RG2HM0361	36 mm		133.63
PKH-RG2HM0365	36 mm		176.47
PKH-RG2HM0451	45 mm		148.02
PKH-RG2HM0455	45 mm		181.87
PKH-RG2HM0561	56 mm		273.57
PKH-RG2HM0565	56 mm		339.03
PKH-RG2HM0701	70 mm		402.16
PKH-RG2HM0705	70 mm		492.91
PKH-RG-30	3		162.91
PKH-RG-35	3-1/2		382.14
PKH-RG-40	4		389.31
PKH-RG-45	4-1/2		559.85
PKH-RG-50	5		648.60
PKH-RG-55	5-1/2		684.06
PKH-RGHD-06	5/8		68.02
PKH-RGHD-10	1		89.28
PKH-RGHD-13	1-3/8		117.35
PKH-RGHD-17	1-3/4		148.55
PKH-RGHD-20	2		218.76
PKH-RGHD-25	2-1/2		269.21
PKH-RGHD-35	3-1/2		330.59
PKH-RGHM-012	12 mm		44.12
PKH-RGHM-014	14 mm		77.09
PKH-RGHM-018	18 mm		82.81
PKH-RGHM-022	22 mm		80.96
PKH-RGHM-028	28 mm		87.84
PKH-RGHM-036	36 mm		85.42
PKH-RGHM-045	45 mm		81.00

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-RGHM-056	56 mm		\$184.50
PKH-RGHM-070	70 mm		304.69
PKH-RGL6948MA1	5/8		75.84
PKH-RGL6948MA5	5/8		86.01
PKH-RGL6949MA1	1		63.63
PKH-RGL6949MA5	1		82.01
PKH-RGL6950MA1	1-3/8		75.73
PKH-RGL6950MA5	1-3/8		101.31
PKH-RGMA-06	5/8		62.73
PKH-RGMA-10	1		49.64
PKH-RGMA-13	1-3/8		60.43
PKH-RK02MA0051	1/2		20.36
PKH-RK02MA0055	1/2		30.44
PKH-RK02MA0061	5/8		20.99
PKH-RK02MA0065	5/8		31.27
PKH-RK02MA0101	1		21.53
PKH-RK02MA0105	1		32.29
PKH-RK02MA0131	1-3/8		23.04
PKH-RK02MA0135	1-3/8		40.43
PKH-RK02MA0171	1-3/4		24.61
PKH-RK02MA0175	1-3/4		50.85
PKH-RK02ML0061	5/8		26.94
PKH-RK02ML0101	1		27.85
PKH-RK02ML0131	1-3/8		31.59
PKH-RK02ML0171	1-3/4		36.10
PKH-RK1HDL0061	5/8		16.25
PKH-RK1HDL0065	5/8		34.41
PKH-RK1HDL0101	1		19.21
PKH-RK1HDL0105	1		36.76
PKH-RK1HDL0131	1-3/8		23.51
PKH-RK1HDL0135	1-3/8		53.62
PKH-RK1HDL0171	1-3/4		28.94
PKH-RK1HDL0175	1-3/4		59.89
PKH-RK1HDL0201	2		36.41
PKH-RK1HDL0205	2		63.64
PKH-RK1HDL0251	2-1/2		51.41
PKH-RK1HDL0255	2-1/2		99.38
PKH-RK1HDL0351	3-1/2		66.93
PKH-RK1HDL0355	3-1/2		122.14
PKH-RK2AHL0051	1/2		11.67
PKH-RK2AHL0051PS	1/2		16.11
PKH-RK2AHL0055	1/2		48.48
PKH-RK2AHL0055PS	1/2		27.84
PKH-RK2AHL0061	5/8		20.24
PKH-RK2AHL0061PS	5/8		16.97
PKH-RK2AHL0065	5/8		53.30
PKH-RK2AHL0065PS	5/8		30.58
PKH-RK2AHL0101	1		14.63
PKH-RK2AHL0101PS	1		24.18
PKH-RK2AHL0105	1		59.88
PKH-RK2AHL0105PS	1		38.86
PKH-RK2AHL0131	1-3/8		16.05
PKH-RK2AHL0131PS	1-3/8		28.43
PKH-RK2AHL0135	1-3/8		77.53
PKH-RK2AHL0135PS	1-3/8		48.12
PKH-RK2AHL0171	1-3/4		18.58
PKH-RK2AHL0171PS	1-3/4		24.45

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-RK2AHL0175	1-3/4		\$80.76
PKH-RK2AHL0175PS	1-3/4		50.12
PKH-RK2AHL0201	2		20.52
PKH-RK2AHL0201PS	2		29.99
PKH-RK2AHL0205	2		84.18
PKH-RK2AHL0205PS	2		50.57
PKH-RK2AHL0251	2-1/2		23.04
PKH-RK2AHL0251PS	2-1/2		45.82
PKH-RK2AHL0255	2-1/2		92.12
PKH-RK2AHL0255PS	2-1/2		89.84
PKH-RK2AHL0301	3		29.86
PKH-RK2AHL0301PS	3		55.29
PKH-RK2AHL0305	3		111.16
PKH-RK2AHL0305PS	3		87.82
PKH-RK2AHL0351	3-1/2		139.74
PKH-RK2AHL0351PS	3-1/2		109.41
PKH-RK2AHL0355	3-1/2		230.59
PKH-RK2AHL0355PS	3-1/2		113.23
PKH-RK2AHL0401	4		173.58
PKH-RK2AHL0405	4		267.19
PKH-RK2AHL0451	4-1/2		203.52
PKH-RK2AHL0455	4-1/2		334.40
PKH-RK2AHL0501	5		253.41
PKH-RK2AHL0505	5		390.72
PKH-RK2AHL0551	5-1/2		282.96
PKH-RK2AHL0555	5-1/2		560.57
PKH-RK2AN00051	1/2		28.50
PKH-RK2AN00061	5/8		29.86
PKH-RK2AN00101	1		34.30
PKH-RK2AN00131	1-3/8		37.86
PKH-RK2AN00171	1-3/4		44.52
PKH-RK2AN00201	2		52.54
PKH-RK2AN00251	2-1/2		76.17
PKH-RK2AN00301	3		125.55
PKH-RK2AN00351	3-1/2		198.56
PKH-RK2AN00401	4		240.42
PKH-RK2AN00501	5		288.49
PKH-RK2AN00551	5-1/2		344.61
PKH-RK2HDG2061	5/8		20.96
PKH-RK2HDG2065	5/8		31.66
PKH-RK2HDG2101	1		18.79
PKH-RK2HDG2105	1		44.31
PKH-RK2HDG2131	1-3/8		25.33
PKH-RK2HDG2135	1-3/8		63.52
PKH-RK2HDG2171	1-3/4		36.53
PKH-RK2HDG2175	1-3/4		70.15
PKH-RK2HDG2201	2		26.26
PKH-RK2HDG2205	2		72.43
PKH-RK2HDG2251	2-1/2		38.97
PKH-RK2HDG2255	2-1/2		105.97
PKH-RK2HDG2301	3		48.92
PKH-RK2HDG2305	3		283.25
PKH-RK2HDG2351	3-1/2		109.14
PKH-RK2HDG2355	3-1/2		145.57
PKH-RK2HDG2401	4		68.69
PKH-RK2HDG2405	4		180.48
PKH-RK2HGLG2061	5/8		13.96

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-RK2HLG2065	5/8		\$36.91
PKH-RK2HLG2101	1		19.11
PKH-RK2HLG2105	1		32.41
PKH-RK2HLG2131	1-3/8		19.25
PKH-RK2HLG2135	1-3/8		45.5
PKH-RK2HLG2171	1-3/4		21.46
PKH-RK2HLG2175	1-3/4		55.45
PKH-RK2HLG2201	2		23.33
PKH-RK2HLG2205	2		56.81
PKH-RK2HLG2251	2-1/2		33.74
PKH-RK2HLG2255	2-1/2		96.24
PKH-RK2HLG2301	3		39.92
PKH-RK2HLG2305	3		118.59
PKH-RK2HLG2351	3-1/2		57.83
PKH-RK2HLG2355	3-1/2		142.52
PKH-RK2HLG2401	4		69.39
PKH-RK2HLG2405	4		130.09
PKH-RK2HLG2451	4-1/2		106.94
PKH-RK2HLTS051	1/2		34.80
PKH-RK2HLTS061	5/8		35.66
PKH-RK2HLTS101	1		42.14
PKH-RK2HLTS131	1-3/8		49.79
PKH-RK2HLTS171	1-3/4		57.85
PKH-RK2HLTS201	2		66.30
PKH-RK2HLTS251	2-1/2		70.91
PKH-RK2HLTS301	3		77.09
PKH-RK2HLTS351	3-1/2		92.37
PKH-RK2HLTS401	4		103.18
PKH-RK2HLTS451	4-1/2		112.68
PKH-RK2HLTS501	5		122.24
PKH-RK2HLTS551	5-1/2		134.21
PKH-RK2HM0121	12 mm		43.23
PKH-RK2HM0125	12 mm		54.71
PKH-RK2HM0141	14 mm		44.54
PKH-RK2HM0145	14 mm		55.77
PKH-RK2HM0181	18 mm		34.49
PKH-RK2HM0185	18 mm		58.99
PKH-RK2HM0221	22 mm		47.97
PKH-RK2HM0225	22 mm		61.57
PKH-RK2HM0281	28 mm		21.66
PKH-RK2HM0285	28 mm		73.99
PKH-RK2HM0361	36 mm		32.95
PKH-RK2HM0365	36 mm		75.80
PKH-RK2HM0451	45 mm		52.61
PKH-RK2HM0455	45 mm		86.34
PKH-RK2HM0561	56 mm		56.16
PKH-RK2HM0565	56 mm		121.63
PKH-RK2HM0701	70 mm		43.13
PKH-RK2HM0705	70 mm		133.86
PKH-RK2HM0901	90 mm		81.02
PKH-RK2HM0905	90 mm		435.62
PKH-RK2HM1101	110 mm		104.59
PKH-RK2HM1105	110 mm		582.24
PKH-RK2HM1401	140 mm		135.75
PKH-RK2HM1405	140 mm		697.16
PKH-SKCHE03201	18 mm	32 mm	97.14
PKH-SKCHE05001	28 mm	50 mm	94.67

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Sales Part Number	Rod Size	Bore Size	List Price
PKH-SKL7000MA1	5/8	1-1/2	\$33.11
PKH-SKL7000MA5	5/8	1-1/2	93.22
PKH-SKL7001MA1	5/8	2	33.42
PKH-SKL7001MA5	5/8	2	97.51
PKH-SKL7002MA1	1	2	33.98
PKH-SKL7002MA5	1	2	101.81
PKH-SKL7003MA1	5/8	2-1/2	44.07
PKH-SKL7003MA5	5/8	2-1/2	119.22
PKH-SKL7004MA1	1	2-1/2	36.71
PKH-SKL7004MA5	1	2-1/2	123.52
PKH-SKL7005MA1	1	3-1/4	38.15
PKH-SKL7005MA5	1	3-1/4	130.67
PKH-SKL7006MA1	1-3/8	3-1/4	43.21
PKH-SKL7006MA5	1-3/8	3-1/4	149.09
PKH-SKL7007MA1	1	4	44.07
PKH-SKL7007MA5	1	4	155.00
PKH-SKL7008MA1	1-3/8	4	47.54
PKH-SKL7008MA5	1-3/8	4	173.51
PKH-SKL7009MA1	1	5	54.44
PKH-SKL7009MA5	1	5	188.93
PKH-SKL7010MA1	1-3/8	5	59.54
PKH-SKL7010MA5	1-3/8	5	207.49
PKH-SKL7098MA1	1-3/8	6	64.12
PKH-SKL7098MA5	1-3/8	6	256.01

REXROTH

Kit Type		Page
CDT1, CGT1, CDTF,CGT4	Rod Gland Kits	144
	Piston Seal Kits	144
CDT3 & CGT3	CDT3 Seal Kits	145
Various Kits		145

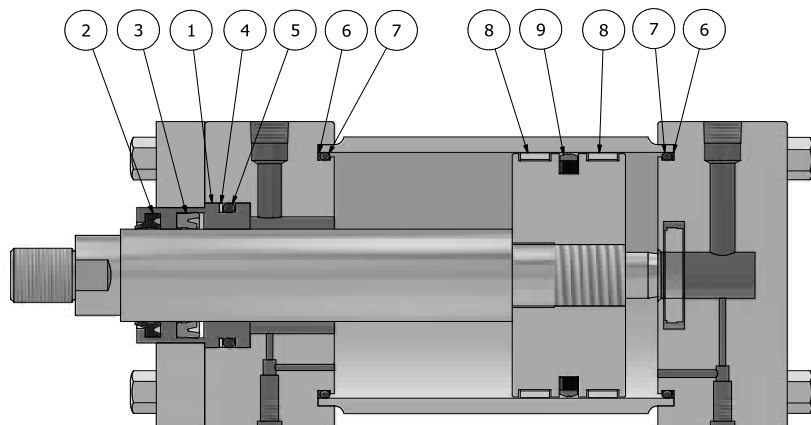
ROYAL

Kit Type		Page
Pneumatic Kits	A Series	146
Pneumatic Kits	M Series	147
Hydraulic Kits	H & S2 Series	148
Repair Kits	By Part Number	149

Rexroth CDT1,CGT1,CDT4,CGT4

Components

	Components
1	Rod Gland
2	Rod Wiper
3	Rod Seal
4	Head Seal Back-Up
5	Head Seal
6	End Seal Back-Up
7	End Seal
8	Wear Ring
9	Piston Seal



Rod Gland Kits (1,2,3,4,5) CGT1,CGT4 Series double rod cylinders require 2 rod gland kits Urethane

Bore Dia	Rod Dia	Sales Part No	List Price
	5/8	RRTH-R978006773	\$159.30
1-1/2	1	RRTH-R978006774	171.30
2, 2-1/2	1	RRTH-R978006775	171.17
2	1-3/8	RRTH-R978006776	194.50
2-1/2, 3-1/4	1-3/8	RRTH-R978006777	194.49
	1-3/4	RRTH-R978006778	222.68
	2	RRTH-R978006779	262.14
	2-1/2	RRTH-R978006780	298.74

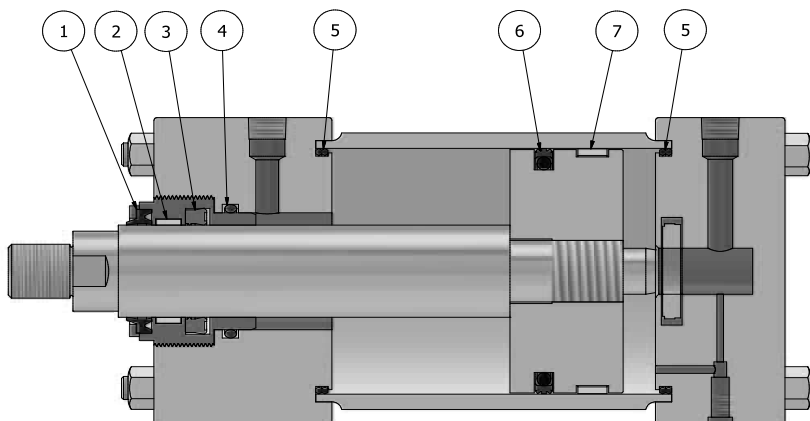
Piston Seal Kits (6,7,8,9) Urethane

Bore Dia	Sales Part No	List Price
1-1/2	RRTH-R978006830	\$41.30
2	RRTH-R978006831	50.01
2-1/2	RRTH-R978006832	58.65
3-1/4	RRTH-R978006833	75.74
4	RRTH-R978006834	98.68
5	RRTH-R978006835	127.13

Rexroth CDT3 & CGT3

Components

1	Rod Wiper
2	Rod Wear Ring*
3	Rod Seal
4	Head Seal
5	End Seal
6	Piston Seal
7	Piston Wear Ring **
8	Stub O-Ring (not pictured)
9	Port O-Ring (not pictured)
*CDT3 2pcs, CGT3 4pcs 40x22, 40x28, and 50 thru 100mm Bore (excluding 70mm Rod).	
** 1pc 25 thru 63mm Bore, 2pcs 80 thru 125mm Bore	



CDT3 Seal Kits

(1-9 see component table) Urethane

Bore Dia	Rod Dia	Sales Part No	List Price
25 mm	12 mm	RRTH-R961008000	\$99.02
25 mm	18 mm	RRTH-R961008001	73.28
32 mm	14 mm	RRTH-R961008002	84.95
32 mm	22 mm	RRTH-R961008003	74.07
40 mm	18 mm	RRTH-R961008004	89.17
40 mm	22 mm	RRTH-R961008005	85.69
40 mm	28 mm	RRTH-R961008006	89.35
50 mm	22 mm	RRTH-R961008007	129.95
50 mm	28 mm	RRTH-R961008008	90.19
50 mm	36 mm	RRTH-R961008009	129.40
63 mm	28 mm	RRTH-R961008010	111.63
63 mm	36 mm	RRTH-R961008011	141.01
63 mm	45 mm	RRTH-R961008012	142.56
80 mm	36 mm	RRTH-R961008013	174.42
80 mm	45 mm	RRTH-R961008014	192.33
80 mm	56 mm	RRTH-R961008015	188.12
100 mm	45 mm	RRTH-R961008016	193.48
100 mm	56 mm	RRTH-R961008017	227.96
100 mm	70 mm	RRTH-R961008018	210.54
125 mm	56 mm	RRTH-R961008019	238.80
125 mm	70 mm	RRTH-R961008020	273.05
125 mm	90 mm	RRTH-R961008021	260.31

CGT3 Seal Kits

(1-9 see component table) Urethane

Bore Dia	Rod Dia	Sales Part No	List Price
25 mm	12 mm	RRTH-R961008078	\$166.13
25 mm	18 mm	RRTH-R961008079	99.61
32 mm	14 mm	RRTH-R961008080	160.03
32 mm	22 mm	RRTH-R961008081	124.47
40 mm	18 mm	RRTH-R961008082	117.36
40 mm	22 mm	RRTH-R961008083	123.80
40 mm	28 mm	RRTH-R961008084	118.62
50 mm	22 mm	RRTH-R961008085	183.55
50 mm	28 mm	RRTH-R961008086	116.95
50 mm	36 mm	RRTH-R961008087	191.26
63 mm	28 mm	RRTH-R961008088	140.49
63 mm	36 mm	RRTH-R961008089	201.34
63 mm	45 mm	RRTH-R961008090	228.19
80 mm	36 mm	RRTH-R961008091	226.65
80 mm	45 mm	RRTH-R961008092	281.35
80 mm	56 mm	RRTH-R961008093	288.21
100 mm	45 mm	RRTH-R961008094	305.82
100 mm	56 mm	RRTH-R961008095	375.68
100 mm	70 mm	RRTH-R961008096	312.13
125 mm	56 mm	RRTH-R961008097	337.19
125 mm	70 mm	RRTH-R961008098	362.28
125 mm	90 mm	RRTH-R961008099	356.75

Various Kits

Kit #	Model	Code	Rod	Bore	List Price
RRTH-1817005842	RRTH-KIT	N-N-10	-	63 mm	\$137.52
RRTH-R900849392	RRTH-KIT	I-UB-10	36 mm	50 mm	48,83

A Series Pneumatic Kits

A Cylinders

Kit Composition Varies
Consult your Hercules® representative.

Kit #	Code	Rod x Bore	List Price
RYL-KA207	N-U-5	3/4" X 2"	\$69.23
RYL-KA210	N-U-5	1" X 2"	69.32
RYL-KA310	I-U-5	1" X 3"	83.06
RYL-KA312	I-U-5	1-1/4" X 3"	83.94
RYL-KA412	I-U-5	1-1/4" X 4"	116.59
RYL-KA415	I-U-5	1-1/2" X 4"	117.64
RYL-KA512	I-U-5	1-1/4" X 5"	141.49
RYL-KA515	I-U-5	1-1/2" X 5"	142.56
RYL-KA615	I-U-5	1-1/2" X 6"	179.38
RYL-KA617	I-U-5	1-3/4" X 6"	180.12
RYL-KA1030	I-U-5	3" X 10"	218.17
RYL-KA1230	I-U-5	3" X 12"	228.48
RYL-KA1235	I-U-5	3-1/2" X 12"	233.80
RYL-KA1506	N-U-5	5/8" X 1-1/2"	12.86

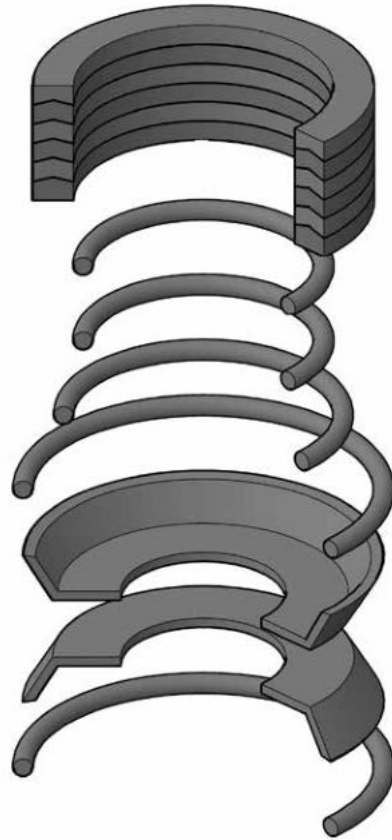
M Series Pneumatic Kits

M Cylinders

Kit #	Code	Rod x Bore	List Price
RYL-KM415	N-V-7	1-1/2" X 4"	\$63.67
RYL-KM620	N-V-7	2" X 6"	97.39
RYL-KM820	N-V-7	2" X 8"	145.40
RYL-KM825	N-V-7	2-1/2" X 8"	148.56
RYL-KM1025	N-V-7	2-1/2" X 10"	193.37
RYL-KM1030	N-V-7	3" X 10"	205.16
RYL-KM1235	N-V-7	3-1/2" X 12"	297.02

Kit Includes:

1 Vee-Set
5 NBR O-rings
2 NBR Piston Cups



H Series Hydraulic Kits

H Cylinders



Kit #	Code	Rod x Bore	List Price
RYL-KH1510	I-U-5	1" X 1-1/2"	\$76.35
RYL-KH2510	I-U-5	1" X 2-1/2"	100.49
RYL-KH2517	I-U-5	1-3/4" X 2-1/2"	110.50
RYL-KH3217	I-U-5	1-3/4" X 3-1/4"	147.33
RYL-KH3220	I-U-5	2" X 3-1/4"	149.53
RYL-KH4017	I-U-5	1-3/4" X 4"	155.98
RYL-KH4025	I-U-5	2-1/2" X 4"	176.08
RYL-KH5020	I-U-5	2" X 5"	203.21
RYL-KH6025	I-U-5	2-1/2" X 6"	206.52

Kit Includes:

1 URE Wiper
3 URE U-seals
1 NBR O-ring
3 URE O-rings

S2 Series Hydraulic Kits

S2 Cylinders



Kit #	Code	Rod x Bore	List Price
RYL-K2K212	I-U-5	1-1/4" X 2"	\$61.88
RYL-K2K2510	I-U-5	1" X 2-1/2"	75.46
RYL-K2K2512	I-U-5	1-1/4" X 2-1/2"	73.02
RYL-K2K312	I-U-5	1-1/4" X 3"	87.66

Kit Includes:

1 URE Wiper
3 URE U-seals
4 NBR O-rings

Kit Number	Code	Rod x Bore	List Price
RYL-K2K212	I-U-5	1-1/4 X 2	\$61.88
RYL-K2K2510	I-U-5	1 X 2-1/2	75.46
RYL-K2K2512	I-U-5	1-1/4 X 2-1/2	73.02
RYL-K2K312	I-U-5	1-1/4 X 3	87.66
RYL-KA1030	I-U-5	3 X 10	218.17
RYL-KA1230	I-U-5	3 X 12	228.48
RYL-KA1235	I-U-5	3-1/2 X 12	233.80
RYL-KA1506	N-U-5	5/8 X 1-1/2	12.86
RYL-KA207	N-U-5	3/4 X 2	69.23
RYL-KA210	N-U-5	1 X 2	69.32
RYL-KA310	I-U-5	1 X 3	83.06
RYL-KA312	I-U-5	1-1/4 X 3	83.94
RYL-KA412	I-U-5	1-1/4 X 4	116.59
RYL-KA415	I-U-5	1-1/2 X 4	117.64
RYL-KA512	I-U-5	1-1/4 X 5	141.49
RYL-KA515	I-U-5	1-1/2 X 5	142.56
RYL-KA615	I-U-5	1-1/2 X 6	179.38
RYL-KA617	I-U-5	1-3/4 X 6	180.12
RYL-KH1510	I-U-5	1 X 1-1/2	76.35
RYL-KH2510	I-U-5	1 X 2-1/2	100.49
RYL-KH2517	I-U-5	1-3/4 X 2-1/2	110.50
RYL-KH3217	I-U-5	1-3/4 X 3-1/4	147.33
RYL-KH3220	I-U-5	2 X 3-1/4	149.53
RYL-KH4017	I-U-5	1-3/4 X 4	155.98
RYL-KH4025	I-U-5	2-1/2 X 4	176.08
RYL-KH5020	I-U-5	2 X 5	203.21
RYL-KH6025	I-U-5	2-1/2 X 6	206.52
RYL-KM1025	N-V-7	2-1/2 X 10	193.37
RYL-KM1030	N-V-7	3 X 10	205.16
RYL-KM1235	N-V-7	3-1/2 X 12	297.02
RYL-KM415	N-V-7	1-1/2 X 4	63.67
RYL-KM620	N-V-7	2 X 6	97.39
RYL-KM820	N-V-7	2 X 8	145.40
RYL-KM825	N-V-7	2-1/2 X 8	148.56

NOTES

NOTES

SHEFFER

Kit Type		Page
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TOMKINS-JOHNSON / TJ

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VICKERS / EATON

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Repair Kits	NZ Series	162-163
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HH Series

HH Hydraulic Cylinders Standard



Kit Includes:

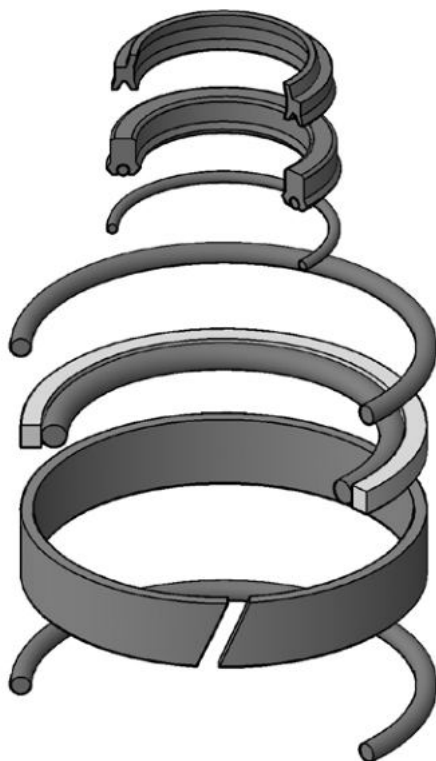
- 1 NBR Rod Wiper
- 1 Urethane Rod Seal
- 1 NBR Gland O-ring
- 1 PTFE Piston seal
- *Piston Wear Strips
- **1 NBR Piston/ Rod O-ring
- 2 NBR Tube End O-rings

Note:

- * Piston Wear Strips:
 - 1 Wear Strip thru 4" bore
 - 2 Wear Strips 5" to 8" bore
 - 3 Wear Strips 10" and 12" bore
 - 4 Wear Strips 14" bore
- ** Where Applicable

Rod x Bore	(NBR) Kit #	List Price
5/8" X 1-1/8"	SHF-761-01-0112-0062	\$38.83
5/8" X 1-1/2"	SHF-761-01-0150-0062	45.05
1" X 1-1/2"	SHF-761-01-0150-0100	47.38
1" X 1-1/2"	SHF-761-01-0200-0100	50.12
1-3/8" X 2"	SHF-761-01-0200-0137	57.46
1-3/8" X 2-1/2"	SHF-761-01-0250-0137	58.48
1-3/4" X 2-1/2"	SHF-761-01-0250-0175	60.59
1-3/8" X 3-1/4"	SHF-761-01-0325-0137	64.82
1-3/4" X 3-1/4"	SHF-761-01-0325-0175	67.21
2" X 3-1/4"	SHF-761-01-0325-0200	67.96
2" X 4"	SHF-761-01-0400-0200	69.63
2-1/2" X 4"	SHF-761-01-0400-0250	73.49
2-1/2" X 5"	SHF-761-01-0500-0250	83.37
3-1/2" X 5"	SHF-761-01-0500-0350	89.02
3" X 6"	SHF-761-01-0600-0300	106.41
4" X 6"	SHF-761-01-0600-0400	113.63
4" X 7"	SHF-761-01-0700-0400	120.90
5" X 7"	SHF-761-01-0700-0500	154.66
3-1/2" X 8"	SHF-761-01-0800-0350	210.07
4" X 8"	SHF-761-01-0800-0400	213.16
5-1/2" X 8"	SHF-761-01-0800-0550	228.89
4-1/2" X 10"	SHF-761-01-1000-0450	267.85
7" X 10"	SHF-761-01-1000-0700	475.10
5-1/2" X 12"	SHF-761-01-1200-0550	577.84
7" X 14"	SHF-761-01-1400-0700	590.59

HH Hydraulic Cylinders Fluorocarbon



Kit Includes:

- 1 FKM Rod Wiper
- 1 FKM Rod Seal
- 1 FKM Gland O-ring
- 1 PTFE Piston seal
- *Piston Wear Strips
- **1 FKM Piston/ Rod O-ring
- 2 FKM Tube End O-rings

Note:

- * Piston Wear Strips:
 - 1 Wear Strip thru 4" bore
 - 2 Wear Strips 5" to 8" bore
 - 3 Wear Strips 10" and 12" bore
 - 4 Wear Strips 14" bore
- ** Where Applicable

Rod x Bore	(FKM) Kit #	List Price
5/8" X 1-1/8"	SHF-761-21-0112-0062	\$59.15
5/8" X 1-1/2"	SHF-761-21-0150-0062	64.45
1" X 1-1/2"	SHF-761-21-0150-0100	71.96
1" X 1-1/2"	SHF-761-21-0200-0100	75.46
1-3/8" X 2"	SHF-761-21-0200-0137	87.64
1-3/8" X 2-1/2"	SHF-761-21-0250-0137	88.75
1-3/4" X 2-1/2"	SHF-761-21-0250-0175	96.56
1-3/8" X 3-1/4"	SHF-761-21-0325-0137	102.13
1-3/4" X 3-1/4"	SHF-761-21-0325-0175	109.64
2" X 3-1/4"	SHF-761-21-0325-0200	114.17
2" X 4"	SHF-761-21-0400-0200	145.62
2-1/2" X 4"	SHF-761-21-0400-0250	162.06
2-1/2" X 5"	SHF-761-21-0500-0250	165.56
3-1/2" X 5"	SHF-761-21-0500-0350	175.10
3" X 6"	SHF-761-21-0600-0300	224.59
4" X 6"	SHF-761-21-0600-0400	274.41
4" X 7"	SHF-761-21-0700-0400	279.20
5" X 7"	SHF-761-21-0700-0500	373.96
3-1/2" X 8"	SHF-761-21-0800-0350	409.16
4" X 8"	SHF-761-21-0800-0400	427.63
5-1/2" X 8"	SHF-761-21-0800-0550	451.15
4-1/2" X 10"	SHF-761-21-1000-0450	555.82
7" X 10"	SHF-761-21-1000-0700	948.22
7" X 14"	SHF-761-21-1400-0700	1186.20

MH Series

MH Hydraulic Cylinders Standard

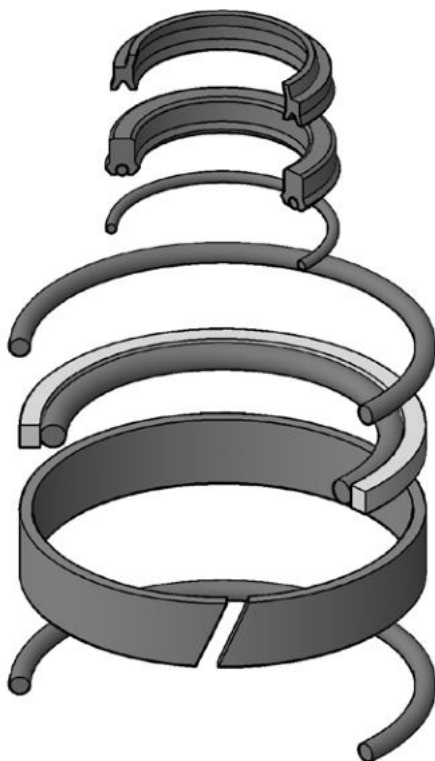


Kit Includes:

- 1 Urethane Rod Wiper
- 1 Urethane Rod Seal
- 1 NBR Gland O-ring
- 1 PTFE Piston seal
- Piston Wear Strip
- 1 NBR Piston/ Rod O-ring
- 2 NBR Tube End O-rings

Rod x Bore	(NBR) Kit #	List Price
5/8" X 1-1/8"	SHF-757-01-0112-0062	\$25.36
5/8" X 1-1/2"	SHF-757-01-0150-0062	42.49
5/8" X 2"	SHF-757-01-0200-0062	46.05
5/8" X 2-1/2"	SHF-757-01-0250-0062	50.39
1" X 1-1/2"	SHF-757-01-0150-0100	44.67
1" X 2"	SHF-757-01-0200-0100	46.68
1" X 2-1/2"	SHF-757-01-0250-0100	51.67
1" X 3-1/4"	SHF-757-01-0325-0100	59.41
1" X 4"	SHF-757-01-0400-0100	65.25
1" X 5"	SHF-757-01-0500-0100	72.28
1-3/4" X 2-1/2"	SHF-757-01-0250-0175	55.54
1-3/4" X 3-1/4"	SHF-757-01-0325-0175	63.66
1-3/4" X 4"	SHF-757-01-0400-0175	67.99
1-3/4" X 5"	SHF-757-01-0500-0175	75.34
1-3/4" X 6"	SHF-757-01-0600-0175	89.59
1-3/8" X 2"	SHF-757-01-0200-0137	49.45
1-3/8" X 2-1/2"	SHF-757-01-0250-0137	54.17
1-3/8" X 3-1/4"	SHF-757-01-0325-0137	63.47
1-3/8" X 4"	SHF-757-01-0400-0137	66.91
1-3/8" X 5"	SHF-757-01-0500-0137	74.22
1-3/8" X 6"	SHF-757-01-0600-0138	87.74
2" X 3-1/4"	SHF-757-01-0325-0200	65.03
2" X 4"	SHF-757-01-0400-0200	68.73
2" X 5"	SHF-757-01-0500-0200	76.62
2" X 6"	SHF-757-01-0600-0200	90.76
2-1/2" X 4"	SHF-757-01-0400-0250	71.21
3" X 5"	SHF-757-01-0500-0300	79.67
3" X 6"	SHF-757-01-0600-0300	92.61
3-1/2" X 5"	SHF-757-01-0500-0350	82.74
3-1/2" X 6"	SHF-757-01-0600-0350	94.55
4" X 6"	SHF-757-01-0600-0400	96.53

MH Hydraulic Cylinders Fluorocarbon



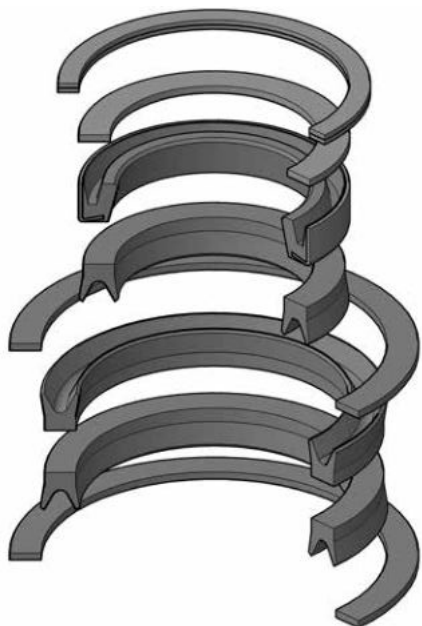
Kit Includes:

- 1 Urethane Rod Wiper
- 1 Urethane Rod Seal
- 1 NBR Gland O-ring
- 1 PTFE Piston seal
- Piston Wear Strip
- 1 NBR Piston/ Rod O-ring
- 2 NBR Tube End O-rings

Rod x Bore	(FKM) Kit #	List Price
5/8" X 1-1/8"	SHF-757-21-0112-0062	\$56.02
5/8" X 1-1/2"	SHF-757-21-0150-0062	57.48
5/8" X 2"	SHF-757-21-0200-0062	59.72
5/8" X 2-1/2"	SHF-757-21-0250-0062	70.02
1" X 1-1/2"	SHF-757-21-0150-0100	58.81
1" X 2"	SHF-757-21-0200-0100	62.39
1" X 2-1/2"	SHF-757-21-0250-0100	71.68
1" X 3-1/4"	SHF-757-21-0325-0100	85.05
1" X 4"	SHF-757-21-0400-0100	95.32
1" X 5"	SHF-757-21-0500-0100	105.45
1-3/4" X 2-1/2"	SHF-757-21-0250-0175	83.37
1-3/4" X 3-1/4"	SHF-757-21-0325-0175	90.25
1-3/4" X 4"	SHF-757-21-0400-0175	99.36
1-3/4" X 5"	SHF-757-21-0500-0175	111.64
1-3/4" X 6"	SHF-757-21-0600-0175	165.92
1-3/8" X 2"	SHF-757-21-0200-0137	69.31
1-3/8" X 2-1/2"	SHF-757-21-0250-0137	80.53
1-3/8" X 3-1/4"	SHF-757-21-0325-0137	87.41
1-3/8" X 4"	SHF-757-21-0400-0137	96.50
1-3/8" X 5"	SHF-757-21-0500-0137	107.39
1-3/8" X 6"	SHF-757-21-0600-0138	161.14
2" X 3-1/4"	SHF-757-21-0325-0200	94.00
2" X 4"	SHF-757-21-0400-0200	101.87
2" X 5"	SHF-757-21-0500-0200	114.80
2" X 6"	SHF-757-21-0600-0200	170.17
2-1/2" X 4"	SHF-757-21-0400-0250	104.00
3" X 5"	SHF-757-21-0500-0300	132.86
3" X 6"	SHF-757-21-0600-0300	195.73
3-1/2" X 5"	SHF-757-21-0500-0350	145.75
3-1/2" X 6"	SHF-757-21-0600-0350	216.89
4" X 6"	SHF-757-21-0600-0400	233.41

C20 Series

Pneumatic Kits



Kit #	Code	Rod x Bore	List Price
SHF-720-00150	P-U-5	1/2" X 1-1/2"	\$25.23
SHF-720-00200	P-U-5	1/2" X 2"	26.80
SHF-720-00250	P-U-5	5/8" X 2-1/2"	27.85
SHF-720-00300	P-U-5	3/4" X 3"	28.46
SHF-720-00350	P-U-5	3/4" X 3-1/2"	30.49
SHF-720-00400	P-U-5	1" X 4"	31.67
SHF-720-00500	P-U-5	1" X 5"	35.82
SHF-720-00600	P-U-5	1" X 6"	44.05
SHF-720-00700	P-U-5	1-3/8" X 7"	60.54
SHF-720-00800	P-U-5	1-3/8" X 8"	92.27

Kit Includes:

- 1 Metal-Clad Wiper
- 3 NBR U-seals
- 1 Steel Washer
- 2 Gaskets
- 1 Spiral Retainer Ring

(8" Bore also Includes:

- 4 NBR O-rings
- 2 NBR Cushion Seals)

Various Kits

Kit #	Code	Rod x Bore	List Price
SHF-720-01-0300	P-U-5	3/4" X 3"	\$36.68
SHF-720-01-0400	P-U-5	1" X 4"	49.23
SHF-720-01-0500	P-U-5	1" X 5"	56.14
SHF-720-01-0800	P-U-5	1-3/8" X 8"	117.94
SHF-726-0267-1000-0175	I-U-5	1-3/4" X 10"	176.60
SHF-760-01-0200-0137	I-U-10	1-3/8" X 2"	142.12
SHF-760-01-0250-0175	I-U-10	1-3/4" X 2-1/2"	51.79
SHF-761-01-0200-0137	I-U-10	1-3/8" x 2"	57.46
SHF-761-01-0250-0175	I-U-10	1-3/4" X 2-1/2"	60.59

Kit Composition Varies

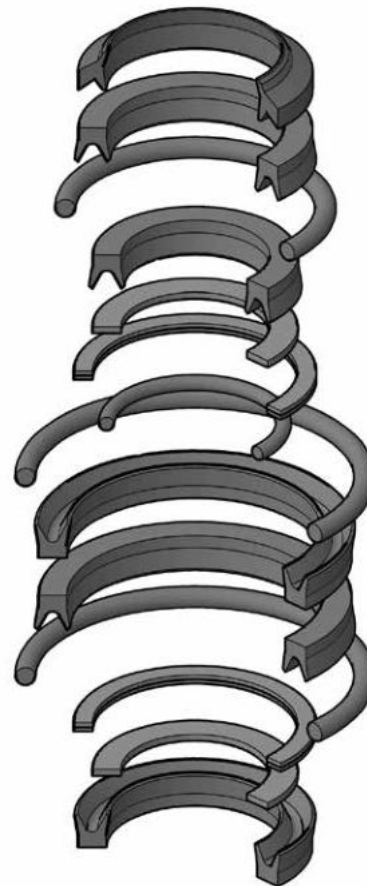
Consult your
Hercules® Sealing Products representative.

Pneumatic Kits

Kit #	Code	Rod x Bore	List Price
SHF-726-0167-0200-0062	I-U-5	5/8" X 2"	\$21.87
SHF-726-0167-0250-0062	I-U-5	5/8" X 2-1/2"	23.32
SHF-726-0167-0250-0100	I-U-5	1" X 2-1/2"	32.98
SHF-726-0167-0250-0137	I-U-5	1-3/8" X 2-1/2"	36.25
SHF-726-0167-0325-0100	I-U-5	1" X 3-1/4"	32.86
SHF-726-0167-0325-0137	I-U-5	1-3/8" X 3-1/4"	39.60
SHF-726-0167-0325-0175	I-U-5	1-3/4" X 3-1/4"	38.93
SHF-726-0167-0400-0100	I-U-5	1 X 4"	41.09
SHF-726-0167-0400-0137	I-U-5	1-3/8" X 4"	36.05
SHF-726-0167-0400-0175	I-U-5	1-3/4" X 4"	38.79
SHF-726-0167-0500-0100	I-U-5	1 X 5"	58.05
SHF-726-0167-0500-0137	I-U-5	1-3/8" X 5"	41.08
SHF-726-0167-0500-0175	I-U-5	1-3/4" X 5"	42.40
SHF-726-0167-0600-0137	I-U-5	1-3/8" X 6"	63.66
SHF-726-0167-0600-0175	I-U-5	1-3/4" X 6"	67.64
SHF-726-0167-0700-0137	I-U-5	1-3/8" X 7"	68.95
SHF-726-0167-0800-0137	I-U-5	1-3/8" X 8"	78.84
SHF-726-0167-0800-0175	I-U-5	1-3/4" X 8"	91.78
SHF-726-0167-1000-0175	I-U-5	1-3/4" X 10"	137.76

Kit Includes:

1 URE Wiper
5 NBR U-seals
4 NBR O-rings
2 Steel Washers
2 Spiral Retainer Rings



Various Kits

Kit #	Code	Rod x Bore	List Price
SHF-720-01-0600	P-U-4	1" X 6"	\$48.90
SHF-726-0107-0200-0100	I-U-5	1" X 2"	21.21
SHF-729-0200-K019	P-U-5	1-1/4" X 2"	47.36
SHF-729-0500-K003	P-U-5	2" X 5" Double Rod	80.03
SHF-757-01-0325-0137	I-U-10	1-3/8" X 3-1/4"	63.47
SHF-759-0100-0325-0137	I-U-5	1-3/8" X 3-1/4"	64.51
SHF-760-0100-0400-0175	I-U-10	1-3/4" X 4"	72.77
SHF-760-22-0600-0250	I-U-1	2-1/2" x 6"	157.44
SHF-761-01-0800-0350	I-U-10	3-1/2" X 8	210.07
SHF-795-S003	I-U-10	1-1/4 X 2-3/4	75.61

Kit Composition Varies

Consult your
Hercules® Sealing Products representative.

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Kit Number	Code	Rod x Bore	List Price
SHF-100-032	O-Ring	Min Pack 20	\$0.39
SHF-100-041	O-Ring	Min Pack 20	0.76
SHF-100-149	O-Ring	Min Pack 20	0.64
SHF-157-0175-0137-031	U-Seal	1-3/8 X 1-3/4 X 5/16	14.50
SHF-185-301-0325	Piston Seal	3.25 X 0.115	8.24
SHF-6SHA179SK	I-U-10	2 X 6	57.29
SHF-720-00150	P-U-5	1/2 X 1-1/2	25.23
SHF-720-00200	P-U-5	1/2 X 2	26.80
SHF-720-00250	P-U-5	5/8 X 2-1/2	27.85
SHF-720-00300	P-U-5	3/4 X 3	28.46
SHF-720-00350	P-U-5	3/4 X 3-1/2	30.49
SHF-720-00400	P-U-5	1 X 4	31.67
SHF-720-00500	P-U-5	1 X 5	35.82
SHF-720-00600	P-U-5	1 X 6	44.05
SHF-720-00700	P-U-5	1-3/8 X 7	60.54
SHF-720-00800	P-U-5	1-3/8 X 8	92.27
SHF-720-01-0300	P-U-5	3/4 X 3	36.68
SHF-720-01-0350	P-U-5	3/4 X 3-1/2	38.25
SHF-720-01-0400	P-U-5	1 X 4	49.23
SHF-720-01-0500	P-U-5	1 X 5	56.14
SHF-720-01-0600	P-U-4	1 X 6	48.90
SHF-720-01-0800	P-U-5	1-3/8 X 8	117.94
SHF-726-0107-0200-0100	I-U-5	1 X 2	21.21
SHF-726-0167-0200-0062	I-U-5	5/8 X 2	21.87
SHF-726-0167-0250-0062	I-U-5	5/8 X 2-1/2	23.32
SHF-726-0167-0250-0100	I-U-5	1 X 2-1/2	32.98
SHF-726-0167-0250-0137	I-U-5	1-3/8 X 2-1/2	36.25
SHF-726-0167-0325-0100	I-U-5	1 X 3-1/4	32.86
SHF-726-0167-0325-0137	I-U-5	1-3/8 X 3-1/4	39.60
SHF-726-0167-0325-0175	I-U-5	1-3/4 X 3-1/4	38.93
SHF-726-0167-0400-0100	I-U-5	1 X 4	41.09
SHF-726-0167-0400-0137	I-U-5	1-3/8 X 4	36.05
SHF-726-0167-0400-0175	I-U-5	1-3/4 X 4	38.79
SHF-726-0167-0500-0100	I-U-5	1 X 5	58.05
SHF-726-0167-0500-0137	I-U-5	1-3/8 X 5	41.08
SHF-726-0167-0500-0175	I-U-5	1-3/4 X 5	42.40
SHF-726-0167-0600-0137	I-U-5	1-3/8 X 6	63.66
SHF-726-0167-0600-0175	I-U-5	1-3/4 X 6	67.64
SHF-726-0167-0700-0137	I-U-5	1-3/8 X 7	68.95
SHF-726-0167-0800-0137	I-U-5	1-3/8 X 8	78.84
SHF-726-0167-0800-0175	I-U-5	1-3/4 X 8	91.78
SHF-726-0167-1000-0175	I-U-5	1-3/4 X 10	137.76
SHF-726-0267-1000-0175	I-U-5	1-3/4 X 10	176.60
SHF-729-0200-K019	P-U-5	1-1/4 X 2	47.36
SHF-729-0500-K003	P-U-5	2 X 5 Double Rod	80.03
SHF-757-01-0112-0062	I-U-10	5/8 X 1-1/8	25.36
SHF-757-01-0150-0062	I-U-10	5/8 X 1-1/2	42.49
SHF-757-01-0150-0100	I-U-10	1 X 1-1/2	44.67
SHF-757-01-0200-0062	I-U-10	5/8 X 2	46.05
SHF-757-01-0200-0100	I-U-10	1 X 2	46.68
SHF-757-01-0200-0137	I-U-10	1-3/8 X 2	49.45
SHF-757-01-0250-0062	I-U-10	5/8 X 2-1/2	50.39
SHF-757-01-0250-0100	I-U-10	1 X 2-1/2	51.67
SHF-757-01-0250-0137	I-U-10	1-3/8 X 2-1/2	54.17
SHF-757-01-0250-0175	I-U-10	1-3/4 X 2-1/2	55.54
SHF-757-01-0325-0100	I-U-10	1 X 3-1/4	59.41

SHEFFER

SHEFFER

Kit Number	Code	Rod x Bore	List Price
SHF-757-01-0325-0137	I-U-10	1-3/8 X 3-1/4	\$63.47
SHF-757-01-0325-0175	I-U-10	1-3/4 X 3-1/4	63.66
SHF-757-01-0325-0200	I-U-10	2 X 3-1/4	65.03
SHF-757-01-0400-0100	I-U-10	1 X 4	65.25
SHF-757-01-0400-0137	I-U-10	1-3/8 X 4	66.91
SHF-757-01-0400-0175	I-U-10	1-3/4 X 4	67.99
SHF-757-01-0400-0200	I-U-10	2 X 4	68.73
SHF-757-01-0400-0250	I-U-10	2-1/2 X 4	71.21
SHF-757-01-0500-0100	I-U-10	1 X 5	72.28
SHF-757-01-0500-0137	I-U-10	1.370 X 5	74.22
SHF-757-01-0500-0175	I-U-10	1-3/4 X 5	75.34
SHF-757-01-0500-0200	I-U-10	2 X 5	76.62
SHF-757-01-0500-0300	I-U-10	3 X 5	79.67
SHF-757-01-0500-0350	I-U-10	3-1/2 X 5	82.74
SHF-757-01-0600-0138	I-U-10	1.370 X 6	87.74
SHF-757-01-0600-0175	I-U-10	1-3/4 X 6	89.59
SHF-757-01-0600-0200	I-U-10	2 X 6	90.76
SHF-757-01-0600-0300	I-U-10	3 X 6	92.61
SHF-757-01-0600-0350	I-U-10	3-1/2 X 6	94.55
SHF-757-01-0600-0400	I-U-10	4 X 6	96.53
SHF-757-21-0112-0062	I-U-10	5/8 X 1-1/8	56.02
SHF-757-21-0150-0062	I-U-10	5/8 X 1-1/2	57.48
SHF-757-21-0150-0100	I-U-10	1 X 1-1/2	58.81
SHF-757-21-0200-0062	I-U-10	5/8 X 2	59.72
SHF-757-21-0200-0100	I-U-10	1 X 2	62.39
SHF-757-21-0200-0137	I-U-10	1.370 X 2	69.31
SHF-757-21-0250-0062	I-U-10	5/8 X 2-1/2	70.02
SHF-757-21-0250-0100	I-U-10	1 X 2-1/2	71.68
SHF-757-21-0250-0137	I-U-10	1-3/8 X 2-1/2	80.53
SHF-757-21-0250-0175	I-U-10	1-3/4 X 2-1/2	83.37
SHF-757-21-0325-0100	I-U-10	1 X 3-1/4	85.05
SHF-757-21-0325-0137	I-U-10	1-3/8 X 3-1/4	87.41
SHF-757-21-0325-0175	I-U-10	1-3/4 X 3-1/4	90.25
SHF-757-21-0325-0200	I-U-10	2 X 3-1/4	94.00
SHF-757-21-0400-0100	I-U-10	1 X 4	95.32
SHF-757-21-0400-0137	I-U-10	1.370 X 4	96.50
SHF-757-21-0400-0175	I-U-10	1-3/4 X 4	99.36
SHF-757-21-0400-0200	I-U-10	2 X 4	101.87
SHF-757-21-0400-0250	I-U-10	2-1/2 X 4	104.00
SHF-757-21-0500-0100	I-U-10	1 X 5	105.45
SHF-757-21-0500-0137	I-U-10	1.370 X 5	107.39
SHF-757-21-0500-0175	I-U-10	1.370 X 5	111.64
SHF-757-21-0500-0200	I-U-10	2 X 5	114.80
SHF-757-21-0500-0300	I-U-10	3 X 5	132.86
SHF-757-21-0500-0350	I-U-10	3-1/2 X 5	145.75
SHF-757-21-0600-0138	I-U-10	1-3/8 X 6	161.14
SHF-757-21-0600-0175	I-U-10	1-3/4 X 6	165.92
SHF-757-21-0600-0200	I-U-10	2 X 6	170.17
SHF-757-21-0600-0300	I-U-10	3 X 6	195.73
SHF-757-21-0600-0350	I-U-10	3-1/2 X 6	216.89
SHF-757-21-0600-0400	I-U-10	4 X 6	233.41
SHF-759-0100-0325-0137	I-U-5	1-3/8 X 3-1/4	64.51
SHF-760-0100-0400-0175	I-U-10	1-3/4 X 4	72.77
SHF-760-01-0200-0137	I-U-10	1-3/8 X 2	142.12
SHF-760-01-0250-0175	I-U-10	1-3/4 X 2-1/2	51.79
SHF-760-22-0600-0250	I-U-1	2-1/2 x 6	157.44

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Kit Number	Code	Rod x Bore	List Price
SHF-761-01-0200-0137	I-U-10	1-3/8 X 2	\$57.46
SHF-761-01-0250-0175	I-U-10	1-3/4 X 2-1/2	60.59
SHF-761-01-0700-0400	I-U-10	4 X 7	120.90
SHF-761-01-0800-0350	I-U-10	3-1/2 X 8	210.07
SHF-795-S003	I-U-10	1-1/4 X 2-3/4	75.61

Various Kits

Kit #	Code	Rod x Bore	List Price
TJ-28136862	N-TR-11	1 X 5	\$58.24
TJ-6331U-027	N-U-10	1-1/4 X 4	92.70
TJ-6332U-014	N-U-5	1 X 2-1/2	29.39
TJ-6332U-026	N-U-5	1 X 4	37.54
TJ-6332U-028	N-V-5	1-3/8 X 4	35.11
TJ-6332U-030	N-U-5	1-3/4 X 4	41.85
TJ-6332U-035	N-U-5	1 X 5	39.51
TJ-6332U-048	N-V-5	1-3/4 X 6	56.59
TJ-6332U-069	N-V-5	1-3/8 X 8	57.89
TJ-6332U-070	N-V-5	1-3/4 X 8	63.66

Kit Composition Varies

Consult your
Hercules® Sealing Products representative.

NZ Series

Kits For NZ Cylinders

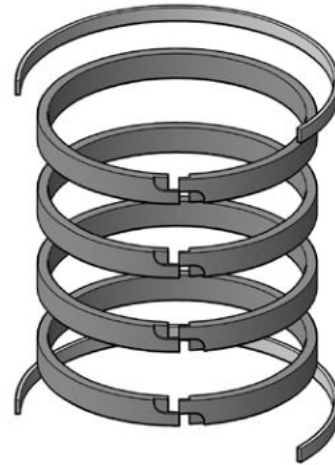
Rod Kits



Kit Includes:

- 1 NBR Wiper
- 1 Urethane Rod Seal
- 1 Wear Strip
- 1 Gland Seal
- 1 Backup Ring

Iron Ring Piston Kits



Kit Includes:

- 4 Iron Piston Rings
- 2 Tube End Seals

Rod Dia.	Kit #	List Price	Bore Dia.	Kit #	List Price
5/8"	VI-6533N-NZC	\$42.69	1-1/2"	VI-6633C-NZC	\$83.14
1"	VI-6533N-NZE	38.47	2"	VI-6633C-NZD	79.11
1-3/8"	VI-6533N-NZH	21.66	2-1/2"	VI-6633C-NZE	76.60
1-3/4"	VI-6533N-NZL	32.21	3-1/4"	VI-6633C-NZG	108.10
2"	VI-6533N-NZM	30.76	4"	VI-6633C-NZH	86.67
2-1/2"	VI-6533N-NZP	40.30	5"	VI-6633C-NZK	109.34
3"	VI-6533N-NZU	45.80	6"	VI-6633C-NZL	138.07
3-1/2"	VI-6533N-NZV	67.76			
4"	VI-6533N-NZW	110.13			

NZ Series

Kits For NZ Cylinders

Piston Kits



Kit Includes:

- 1 PTFE Piston Seal
- 1 Wear Strip
- 2 Tube End Seals

Low Friction Piston Kits



Kit Includes:

- 1 PTFE Piston Seal
- 1 Wear Strip
- 2 Tube End Seals

Bore Dia.	Kit #	List Price	Bore Dia.	Kit #	List Price
1-1/2"	VI-6633N-NZC	\$55.65	1-1/2"	VI-6633L-NZC	\$55.65
2"	VI-6633N-NZD	36.63	2"	VI-6633L-NZD	36.63
2-1/2"	VI-6633N-NZE	50.67	2-1/2"	VI-6633L-NZE	50.67
3-1/4"	VI-6633N-NZG	52.89	3-1/4"	VI-6633L-NZG	52.89
4"	VI-6633N-NZH	53.11	4"	VI-6633L-NZH	53.11
5"	VI-6633N-NZK	114.66	5"	VI-6633L-NZK	114.66
6"	VI-6633N-NZL	120.75	6"	VI-6633L-NZL	120.75

TZ Series

Urethane Kits For TZ Cylinders

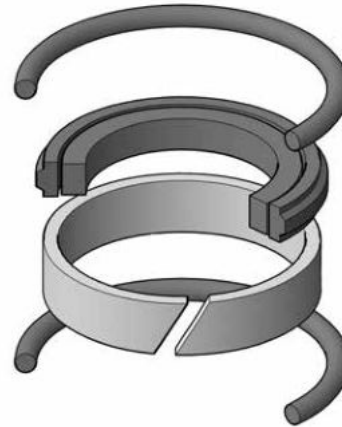
Rod Kits



Kit Includes:

- 1 NBR Wiper
- 1 Urethane Rod Seal
- 1 Wear Strip
- 2 Gland Seals

Piston Kits



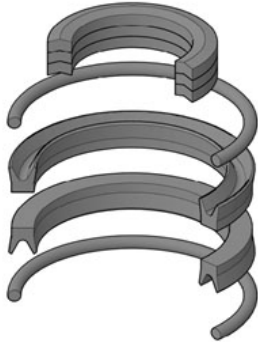
Kit Includes:

- 1 Urethane Piston Seal
- 1 Wear Strip
- 2 Tube End Seals

Rod Dia.	Kit #	List Price	Bore Dia.	Kit #	List Price
5/8"	VI-6533N-TZCC	\$35.21	1-1/2"	VI-6633N-TVCE	\$29.16
1"	VI-6533N-TZDE	60.01	2"	VI-6633N-TVDG	31.94
1-3/8"	VI-6533N-TZGH	44.52	2-1/2"	VI-6633N-TVEJ	34.92
1-3/4"	VI-6533N-TZHL	47.34	3-1/4"	VI-6633N-TVGL	43.54
2"	VI-6533N-TZKM	53.11	4"	VI-6633N-TVHN	55.85
2-1/2"	VI-6533N-TZLP	61.21	5"	VI-6633N-TVKQ	73.16
3"	VI-6533N-TZMU	75.12	6"	VI-6633N-TZLP	77.40
3-1/2"	VI-6533N-TZNV	77.68	7"	VI-6633N-TZMU	96.75
4"	VI-6533N-TZNW	138.40	8"	VI-6633N-TVNU	87.29
4-1/2"	VI-6533N-TZNY	109.18			
5-1/2"	VI-6533N-TZN1	151.86			
5"	VI-6533N-TZNZ	135.97			

TE / TF Series

Universal / No Wiper



Kit Includes:

3 NBR Vee Rings
2 NBR Piston Seals
2 Tube End Seals

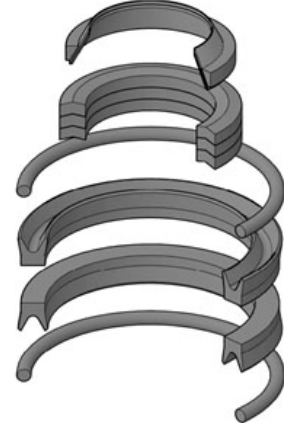
Pneumatic / Urethane Wiper



Kit Includes:

1 Urethane Insert Wiper
3 NBR Vee Rings
2 NBR Piston Seals
2 Tube End Seals

Hydraulic / Bronze Wiper



Kit Includes:

1 Bronze Insert Wiper
3 NBR Vee Rings
2 NBR Piston Seals
2 Tube End Seals

Rod x Bore	Kit #	List Price	Kit #	List Price	Kit #	List Price
5/8" X 1-1/2"	VI-6332U-004	\$20.16	VI-6332U-004-P	\$26.59	VI-6332U-004-H	\$40.31
5/8" X 2"	VI-6332U-007	20.59	VI-6332U-007-P	27.01	VI-6332U-007-H	40.47
1" X 2"	VI-6332U-009	21.84	VI-6332U-009-P	28.43	VI-6332U-009-H	38.38
1" X 2-1/2"	VI-6332U-014	29.39	VI-6332U-014-P	20.14	VI-6332U-014-H	34.24
1" X 3-1/4"	VI-6332U-020	27.03	VI-6332U-020-P	34.24	VI-6332U-020-H	41.30
1" X 4"	VI-6332U-026	37.54	VI-6332U-026-P	31.03	VI-6332U-026-H	39.67
1" X 1-1/2"	VI-6332U-006	21.37	VI-6332U-006-P	27.80	VI-6332U-006-H	38.07
1" X 5"	VI-6332U-035	39.51	VI-6332U-035-P	38.87	VI-6332U-035-H	59.73
1-3/8" X 2-1/2"	VI-6332U-016	55.87	VI-6332U-016-P	67.87	VI-6332U-016-H	67.29
1-3/8" X 3-1/4"	VI-6332U-022	27.05	VI-6332U-022-P	35.44	VI-6332U-022-H	51.05
1-3/8" X 4"	VI-6332U-028	36.88	VI-6332U-028-P	46.52	VI-6332U-028-H	56.59
1-3/8" X 5"	VI-6332U-037	40.84	VI-6332U-037-P	39.07	VI-6332U-037-H	63.69
1-3/8" X 8"	VI-6332U-069	57.89	VI-6332U-069-P	60.23	VI-6332U-069-H	68.29
1-3/4" X 3-1/4"	VI-6332U-023	32.89	VI-6332U-023-P	42.26	VI-6332U-023-H	64.16
1-3/4" X 4"	VI-6332U-030	39.75	VI-6332U-030-P	49.93	VI-6332U-030-H	67.99
1-3/4" X 5"	VI-6332U-039	43.76	VI-6332U-039-P	54.40	VI-6332U-039-H	72.23
1-3/4" X 6"	VI-6332U-048	56.59	VI-6332U-048-P	59.82	VI-6332U-048-H	67.87
1-3/4" X 8"	VI-6332U-070	63.66	VI-6332U-070-P	68.49	VI-6332U-070-H	76.48
2" X 4"	VI-6332U-031	41.00	VI-6332U-031-P	54.68	VI-6332U-031-H	76.02
2-1/2" X 4"	VI-6332U-033	45.65	VI-6332U-033-P	62.06	VI-6332U-033-H	88.11
2-1/2" X 5"	VI-6332U-042	51.20	VI-6332U-042-P	65.68	VI-6332U-042-H	101.41
3" X 5"	VI-6332U-044	54.43	VI-6332U-044-P	71.42	VI-6332U-044-H	119.51

NOTES

NOTES

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ALLIS-CHALMERS

LIFT TRUCKS

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
AC-4751907	N-V-1	1-1/4 Rod Kit	\$136.86
AC-4787570	2 STAGE	1-7/8, 2-1/2	351.86
AC-4787619	9/16" SPOOL	9/16" Spool	16.54
AC-4885085	1 HALF RING	2-1/4 Rod Bearing	5.56
AC-4905170		3/4 Shaft Kit	94.16
AC-4906087	I-U-4	3 X 3-1/2	97.01
AC-4906099	I-U-1	2-1/4 X 2-3/4	151.97
AC-4906100	I-U-1	2-1/4 X 2-3/4	58.99
AC-4906322	I-U-11	1-1/4 X 3	43.81
AC-4906332	I-U-11	1-1/4 X 3	48.36
AC-4906336	I-U-11	1-1/2 X 3-3/4	66.51
AC-4906380	I-U-1	1-3/4 X 2-1/4	36.72
AC-4906390	I-U-1	2-5/8 X 3-1/4	40.27
AC-4906391	I-U-4	3-3/4 X 4-1/4 w/ feed tube	257.23
AC-4906392	I,P-U-1	3-3/4 X 4-1/4	112.83
AC-4906396	I-U-11	1-3/4 X 4-7/8	105.52
AC-4907400		Pump Kit	20.09
AC-4907419	I-U-11	1-1/8 X 2-1/4	44.54
AC-4907474	P-U-1	4 X 4-1/2 w/ feed tube	133.41
AC-4907475	P-U-1	3-1/2 X 4-1/4	93.80
AC-4908297	I-O-3	1 X 2-1/2	25.26
AC-4908540	P-U-1	5 X 5-1/2	154.66
AC-4908541	P-U-1	5 X 5-1/2 w/ feed tube	198.04
AC-4908555	I-O-3	3/4 X 1-1/2	13.08
AC-4908917	I-U-1	3-1/4 X 3-3/4	61.75
AC-4908980	7/8" SPOOL	7/8" Spool	18.84
AC-4909028	I-O-3	1-1/4 X 3-1/2	20.95

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
AC-4909035	I-O-11	1-1/2 X 2-1/2	\$81.03
AC-4910116	I-O-11	7/8 X 2	34.83
AC-4910977	9/16" SPOOL	9/16" Spool	13.64
AC-4911398	I-U-4	2 X 3 2 Cylinders	64.01
AC-4912036	I,P-U-1	1, 2-1/4, 3 Stages	166.43
AC-4912039	I-U-11	1-1/8 X 2-1/4	53.10
AC-4912322	I,P-U-1	1, 1-3/4, 2-3/8 Stages	166.07
AC-4912359	P-U-1	3 X 3-1/2	71.92
AC-4913028	P-U-11	7/8 X 2	61.67
AC-4913075	P-U-1	3-3/4 X 4-1/4 w/ feed tube	254.38
AC-4913486	P-U-1	2-1/2 X 3	82.54
AC-4914879	I-U-1	2-3/4 X 3-1/2	55.01
AC-4914917	I-U-4	1-7/8, 2-5/8 2 Stages	152.06
AC-4917136	I-U-10	2-1/4 X 3	97.71
AC-4917655	I-U-4	1-3/4 X 2-1/4	54.64
AC-4918325	I-U-4	1 X 2	54.79
AC-4918585	I-U-1	1-1/2 X 2-1/4	42.28
AC-4932484	I-SP-1	35 mm Rod Kit	21.72
AC-4942582	I-U-1	30 x 55 mm	46.50
AC-4991278	I-OB-3	1-1/8 X 2-1/4	26.31
AC-4992550	N-TR-1	7/8 Rod Only	10.42
AC-4992855	I-V-6	1-1/2 X 3-3/4	135.09
AC-4993273	I-V-6	1-1/4 X 3	118.65
AC-4993661	I-V-6	1-3/4 X 4-7/8	140.36
AC-4998712	I-N-V	3-5/8 X 4-1/4	131.56
AC-78762688	I-U-1	4-1/8 Rod Kit	134.74

BAKER LIFT TRUCKS

BAKER LIFT TRUCKS KIT APPLICATIONS - TILT CYLINDERS

Kit Number	Code (Pg. x)	Rod X Bore Size	List Price	Cylinder Assembly	Repair Kit	Cylinder Assembly	Repair Kit
BAK-105147	I-V-1	4.438 Rod	\$275.13	233HR7774ZC	3001Y10	9025JT	105652
BAK-105235	I-V-1	2.950 Rod	105.21	270HR7774ZC	106399	9025JV	105652
BAK-105652	I-V-5	1-1/4 X 4	134.73	9025AT	106399	9025JW	105652
BAK-106390	I-U-5	1-3/4 X 4-1/2	146.80	9025AX	106399	9025JX	3001Y28
BAK-106391	I-V-11	1-3/4 X 4	70.68	9025BE	3001Y10	9025JY	3001Y28
BAK-106393	I-V-11	1-1/4 X 4	129.11	9025BF	3001Y10	9025KA	105652
BAK-106399	I-V-11	1-1/4 X 3	51.55	9025BL	3001Y10	A9025KA	105652
BAK-106657	I-V-1	3.950 Rod	140.17	9025BM	106391	9025KB	105652
BAK-106663	Multi-Stage	2-1/4, 2-3/8, 3-1/4	121.65	9025BN	106391	9025KC	105652
BAK-109009	I-U-4	2-1/2 X 3	91.57	9025CH	106399	100072-75	3001Y28
BAK-109010	I-V-1	2-1/2 Rod	163.84	9025EG	3001Y16	100472-477	105652
BAK-138727	P-U-10	22 X 60 mm	167.71	9025EP	3001Y16	100503-508	105652
BAK-3001Y10	I-V-11	1-3/4 X 4	70.27	9025EW	3001Y10	100516-519	105652
BAK-3001Y14	Multi-Stage	2-3/8, 3-3/16, 4-15/16	507.37	9025FB	3001Y16	100742-743	105652
BAK-3001Y16	I-V-11	1-1/4 X 3	117.56	9025FF	106391	100960-963	105652
BAK-3001Y17	I-V-1	3.450 Rod	152.60	9025FH	3001Y10	102793-94	3001Y28
BAK-3001Y20	I-V-1	3.950 Rod	142.66	9025FN	3001Y16	102961-62	3001Y28
BAK-3001Y22	P-OB-10	3/4 X 2	42.84	9025FP	106391	103904-05	105652
BAK-3001Y28	I-V-5	1-1/4 X 3	188.14	9025FT	3001Y10	104183-86	3001Y28
				A9025GK	106393	104639-40	105652
				A9025GN	106393	105840-41	105652
				9025GN	106393	106058-59	105652
				9025HC	106393	108259-60	105652
				9025JA	106393	109351-52	105652
				9025JJ	106393	110872-73	106390
				9025JM	106393	113352-53	106390
				9025JS	105652		

BAKER LIFT TRUCKS

KIT APPLICATIONS - HOIST CYLINDERS

BAKER

Cylinder Assembly	Repair Kit
122R7774Z	3001Y14
160R7774XC	3001Y14
230HR7774ZC	3001Y14
270HR7774XC	106399
294U7774XC	106657
295HR7774XC	3001Y17
298U7774XC	3001Y14
9025AD	3001Y14
9025AF	3001Y14
9025CN	106657
9025D	106657
9025EH	3001Y17
C9025GB	104840
A9025GC	3001Y20
9025GW	105235
9025HH	3001Y20
9025HX	3001Y20
9025JK	106393
100227-230	105235
102019-20	105235
102064-67	105235
102068-72 & 79	3001Y17
102506-08	105235
102556-559	3001Y17
102569-79	106663
102671-79	3001Y14
102695-102708	104840
102813-16	3001Y20
102898-900	3001Y20
103102	105147
103583	3001Y20
103589	3001Y20

Cylinder Assembly	Repair Kit
103598	3001Y20
103635	3001Y20
103662	105147
103775	106663
103855	106663
103894-95	106663
104100	104840
104131	3001Y14
104178	105147
104244	3001Y14
104278	106663
104349	3001Y20
104377	105147
104431	104840
104438	104840
104441	106663
104516	105147
104529	104840
104548	3001Y20
104604	105147
104617	105147
104705-07	3001Y20
104745	104840
104794-96	3001Y20
104878	3001Y20
104998	104840
105104	3001Y20
105163	105147
105387-89	109010
105727	106663
105730	3001Y14
105842	104840

Cylinder Assembly	Repair Kit
105845	104840
105855	3001Y20
105933	106663
105962	3001Y20
105970	3001Y20
106138	3001Y20
106228	3001Y20
106474-76	109009
106477	109009
106647	104840
106672	106663
106733	104840
107695-96	105147
107794-96	109009
108051	104840
108625	109009
108656	109009
108971-974	105235
109631-641	109009
109788	3001Y20
109823	105147
109879	109010
110095	109009
110506	109010
110648-657	105235
110756	3001Y20
110899	105235
110947-949	109009
111059-61	109009
111124	109010
111549-562	109010
111843	105235

Cylinder Assembly	Repair Kit
112006	104840
112037	3001Y20
112061	109009
112111	104840
112213	104840
112419	105235
112562-63	109009
112600	105147
112658	109009
112832	105235
112904	104840
112962	109009
113111	105147
113194	109009
113228	3001Y20
113251	105235
113388	109009
113434	109009
113638	105147
114040	109009
114141	109009
114283	109009
114392	105147
114889	109009
114954	109009
115237	105147
115247	3001Y20
115656	105147
115956	109009
116318	109009
116740	3001Y20
G7328-3	104840

CASCADE

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
CAS-11.11.73	I-U-15	7/8 X 1-1/2	\$39.82
CAS-210090	I-U-4	20 X 36 mm	243.63
CAS-210288	I-U-4	20 X 36 mm	243.63
CAS-562339	I-U-4,10	1-1/8 X 2-1/4	38.52
CAS-684827	I-U-4	3/4 X 1-1/2	23.28
CAS-552715	I-U-1	2-1/4 X 2-3/4	70.66
CAS-554289	MULTI STAGE	4, 5	241.81
CAS-560349	I-U-4	2" X 75 mm	152.63
CAS-562591	I-U-4	2" X 60 mm	122.00
CAS-564409	I-U-13	25 X 63 mm	91.28
CAS-615939	O-RING KIT		10.54
CAS-615940	O-RING KIT		13.87
CAS-628080	I-V-8	1-1/4 X 3	92.94
CAS-630033	I-U-3	1-1/2 X 4-3/4	47.46
CAS-630038	I-U-3	1-1/2 X 4-3/4	43.95
CAS-630445	I-V-8	1-1/4 X 2-1/2	81.58
CAS-631277	P-V-9	2 X 4-3/4	294.93
CAS-638884	MULTI STAGE	2-3/4, 3-3/4	151.21
CAS-639695	I-U-4	3/4 X 1-3/4	74.93

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
CAS-640371	I-U-4	4 X4-1/2	\$125.57
CAS-641956	MULTI STAGE	4, 5	206.23
CAS-643280	I-U-4	3 X 3-1/2	78.94
CAS-644690	I-U-5	1-3/4 X 4	146.77
CAS-646305	I-U-3	3-1/2 X 4	96.83
CAS-646339	SWIVEL KIT		9.50
CAS-647626	I-U-4	1 X 2-1/4	38.60
CAS-647892	I-V-8	1-3/4 X 4.520	131.07
CAS-650018	I-U-5	3-1/2 X 7	170.42
CAS-651847	I-N-4	2 X 2-1/2	59.27
CAS-654519	P-V-1	2 X 4-3/4	89.33
CAS-656167	MULTI STAGE	4-1/4, 5-7/16	283.24
CAS-658717	MULTI STAGE	2-3/4, 3-3/4	142.49
CAS-660954	I-U-4	1-5/8 X 3-1/2	84.31
CAS-660955	I-U-4	3 X 4	99.40
CAS-664814	N-U-4	3/4 X 1-3/4	40.19
CAS-667622	MULTI STAGE	2-1/2, 3-1/4, 4-1/2	271.04

45C VIEWMAST II

CAS-T555286	P-U-10	2-1/8 X 3	\$118.34
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REPLACEMENT PARTS FOR CASCADE EQUIPMENT

NOTE: Cascade part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

BACK-UP RINGS

Part Number	Min. Pkgs.	List Price
CAS-559870	1	\$14.92
CAS-563388	10	1.40
CAS-563907	1	3.87
CAS-563977	5	2.50
CAS-564404	1	15.03
CAS-615009	25	0.51
CAS-615012	25	0.52
CAS-615126	10	0.77
CAS-615128	10	0.90
CAS-615130	10	1.08
CAS-615132	10	1.21
CAS-615135	10	1.41
CAS-615140	10	1.93
CAS-615146	5	2.97
CAS-615147	5	2.59

BACK-UP RINGS

Part Number	Min. Pkgs.	List Price
CAS-615150	5	\$2.99
CAS-615152	5	3.32
CAS-615217	1	5.68
CAS-637565	1	7.52
CAS-638223	1	10.15
CAS-638224	1	10.15
CAS-638225	1	10.58
CAS-638244	10	0.89
CAS-638245	1	7.43
CAS-638247	1	7.80
CAS-638249	1	8.15
CAS-638250	1	7.24
CAS-638252	1	8.97
CAS-638253	1	9.30
CAS-638256	1	10.41

BACK-UP RINGS

Part Number	Min. Pkgs.	List Price
CAS-638257	1	\$10.58
CAS-638293	1	8.70
CAS-638295	1	9.30
CAS-638298	1	10.58
CAS-648569	4	4.10
CAS-660952	1	9.30
CAS-669247	5	2.93
CAS-671754	10	1.20

FACE SEALS

Part Number	List Price
CAS-601468	\$3.20
CAS-607287	5.02

REPLACEMENT PARTS FOR CASCADE

NOTE: Cascade part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

O-RINGS

Part Number	Min. Pkgs.	List Price
CAS-1596	50	\$0.12
CAS-1912210	20	0.39
CAS-207300	50	0.08
CAS-208761	50	0.12
CAS-208762	50	0.30
CAS-208763	50	0.35
CAS-209063	15	1.07
CAS-209064	15	1.07
CAS-209065	15	1.10
CAS-209066	15	1.18
CAS-212359	50	0.14
CAS-2696	50	0.04
CAS-2697	50	0.04
CAS-2698	50	0.04
CAS-2699	50	0.04
CAS-2700	50	0.08
CAS-2701	50	0.09
CAS-2702	50	0.08
CAS-2703	50	0.09
CAS-2704	50	0.09
CAS-2705	50	0.09
CAS-2706	50	0.09
CAS-2707	50	0.12
CAS-2709	50	0.12
CAS-2712	50	0.16
CAS-2722	20	0.35
CAS-2753	5	2.81
CAS-2785	20	0.72
CAS-2787	20	0.52
CAS-2789	20	0.56
CAS-2792	20	0.71
CAS-2793	20	0.71
CAS-2797	20	0.88
CAS-2799	20	0.93
CAS-2801	20	0.95
CAS-2803	10	1.06
CAS-2804	10	1.14
CAS-2807	10	1.50
CAS-2808	10	1.54
CAS-2809	10	1.58

O-RINGS

Part Number	Min. Pkgs.	List Price
CAS-2811	10	\$1.67
CAS-2840	50	0.30
CAS-524737	50	0.09
CAS-543372	10	1.93
CAS-557226	50	0.18
CAS-562127	20	0.86
CAS-564363	20	0.55
CAS-581565	50	0.39
CAS-613376	50	0.13
CAS-617724	50	0.16
CAS-622406	20	0.35
CAS-624737	50	0.09
CAS-624738	50	0.13
CAS-626186	50	0.13
CAS-626189	20	0.30
CAS-628033	20	0.25
CAS-630386	20	0.31
CAS-643330	50	0.08
CAS-643331	50	0.08
CAS-643332	50	0.08
CAS-643333	50	0.08
CAS-643334	50	0.08
CAS-643335	50	0.08
CAS-643336	50	0.08
CAS-643337	50	0.09
CAS-643338	50	0.09
CAS-643339	50	0.12
CAS-643340	50	0.12
CAS-643341	50	0.13
CAS-643342	50	0.13
CAS-643343	50	0.13
CAS-643344	50	0.13
CAS-643345	50	0.16
CAS-643346	50	0.16
CAS-643347	50	0.22
CAS-643348	50	0.25
CAS-643349	50	0.25
CAS-643350	20	0.25
CAS-643351	20	0.27
CAS-643352	20	0.31

O-RINGS

Part Number	Min. Pkgs.	List Price
CAS-643353	20	\$0.35
CAS-643354	20	0.39
CAS-643355	20	0.48
CAS-643356	20	0.52
CAS-643357	20	0.52
CAS-643358	20	0.56
CAS-643359	20	0.56
CAS-643360	20	0.63
CAS-643361	20	0.64
CAS-643362	20	0.67
CAS-643363	20	0.76
CAS-643364	20	0.84
CAS-643365	20	0.88
CAS-643366	10	1.03
CAS-643367	10	1.06
CAS-643368	10	1.14
CAS-643369	10	1.25
CAS-643370	10	1.50
CAS-643371	10	1.93
CAS-643373	50	0.12
CAS-643374	50	0.13
CAS-643375	50	0.13
CAS-643376	50	0.13
CAS-643377	50	0.16
CAS-643378	50	0.16
CAS-643379	50	0.16
CAS-643380	50	0.25
CAS-643381	50	0.25
CAS-643382	20	0.27
CAS-643383	20	0.30
CAS-643384	20	0.31
CAS-643385	20	0.31
CAS-643386	20	0.35
CAS-643387	20	0.37
CAS-643388	20	0.37
CAS-643389	20	0.39
CAS-643390	20	0.39
CAS-643391	20	0.39
CAS-643392	20	0.41
CAS-643393	20	0.41

REPLACEMENT PARTS FOR CASCADE EQUIPMENT

NOTE: Cascade part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

O-RINGS

Part Number	Min. Pkgs.	List Price
CAS-643394	20	\$0.48
CAS-643395	20	0.48
CAS-643396	20	0.48
CAS-643397	20	0.56
CAS-643398	20	0.56
CAS-643399	20	0.56
CAS-643400	20	0.63
CAS-643401	20	0.63
CAS-645592	20	0.72
CAS-654926	50	0.25
CAS-655799	50	0.16
CAS-666015	50	0.30
CAS-666183	50	0.30
CAS-666184	50	0.18
CAS-666891	15	1.07
CAS-666892	10	1.18
CAS-666893	15	1.07
CAS-676959	15	1.05
CAS-682862	50	0.09
CAS-684587	50	0.14
CAS-684615	50	0.14
CAS-689937	50	0.14
CAS-689938	50	0.18
CAS-797089	20	0.73

PISTON SEALS

Part Number	Bore Diameter	List Price
CAS-564407	63 mm	\$56.78

RETAINER RINGS

Part Number	List Price
CAS-7197	\$3.45

U-SEALS

Part Number	Rod Dia.	List Price
CAS-646540	3/4	\$6.65
CAS-641835	7/8	6.90
CAS-560502	1	7.17
CAS-662447	1	7.64
CAS-662450	1-3/8	8.71
CAS-662452	1-5/8	9.42
CAS-662454	1-7/8	10.56
CAS-553521	2-1/2	26.56
CAS-662462	3-1/2	20.50
CAS-553954	4-1/2	47.97
CAS-662457	2-1/4	13.68
CAS-553523	3	31.34
CAS-553524	3-1/4	32.83
CAS-662465	4-1/4	26.87
CAS-662467	4-3/4	30.70

VEE SETS

Part Number	Bore	List Price
CAS-1469	3-1/2	\$67.53
CAS-1471	4-1/2	73.13
CAS-1809	1-3/4	29.33
CAS-1861	2-3/4	62.16
CAS-7501	1-3/8	33.77
CAS-7502	2	32.59
CAS-7538	4	41.40
CAS-7542	3	35.11
CAS-7554	4-3/4	105.72
CAS-7606	2-1/4	26.52
CAS-7608	3-1/2	34.92
CAS-7609	2-1/2	31.51
CAS-7636	4-1/4	65.26
CAS-827	4-1/2	83.38

WEAR RINGS

Part Number	O.D. X Width	List Price
CAS-660761	2-1/4 X 1/2	\$5.58
CAS-660769	4 X 1/2	6.26
CAS-660784	4-3/4 X 3/4	7.33
CAS-660786	5-1/4 X 3/4	7.49
CAS-636959	5-3/4 X 3/4	9.61

WIPERS

Part Number	Rod Dia.	List Price
CAS-559961	3/4	\$4.35
CAS-636851	7/8	1.61
CAS-636852	1	1.61
CAS-626468	1-1/4	1.74
CAS-636854	1-5/8	2.70
CAS-1916335	2-1/2	7.83
CAS-629608	2-1/2	3.31
CAS-636859	3	4.08
CAS-636860	3-1/4	4.79
CAS-563682	3-1/4	11.33
CAS-636862	4	5.47
CAS-563683	4-1/2	14.59
CAS-626456	4-1/2	5.93
CAS-636864	4-3/4	6.17
CAS-561256	42 mm	27.19

REPLACEMENT KITS FOR CATERPILLAR TOWMOTOR LIFT TRUCKS

NOTE: If you can locate the cylinder group number, it can aid in identifying the proper kit.

Kit Number	Code (Pg. xiv)	Rode X Bore Size	List Price
TM-1033947	I-U-10	40 X 90 mm	\$110.85
TM-1040763	P-U-1	70 mm	87.11
TM-1040900	I-U-10	37 X 71 mm	59.73
TM-1040948	P-U-1	35 mm	44.32
TM-1041095	P-U-1	40 x 50 mm	147.27
TM-1042519	P-U-1	85 X 100 mm	103.16
TM-1042609	P-U-4	45 X 55 mm	110.36
TM-1146727	P-U-14	50 X 110 mm	160.89
TM-206398	RETAINER RING		1.18
TM-324908	I-V-8	2 X 4.525	96.83
TM-375427	I-U-11	1 X 2-1/2	26.29
TM-376968	I-U-1	2-1/2 Rod	51.45
TM-388594-6	P-UB-10	1-1/2 X 3-1/2	62.74
TM-396743	I-P-N-8	3 X 4.025	138.93
TM-396744	I,P-U-8	2-1/2 X 3.525	62.34
TM-396746	I,P-U-1	2-1/4, 3-1/4, 4-1/8 Stages	213.94
TM-396747	P-U-8	3 X 3.525	85.62
TM-396748	I-U-8	3 X 4.025	79.09
TM-396749	P-U-1	3-1/8, 4-3/8, 5 Stages	363.65
TM-396750	P-U-1	2-3/16 X 2-1/2	73.24
TM-396751	P-U-8	3-3/4 X 5.025	131.68
TM-396752	I-U-8	2-5/8 X 3.025	94.46
TM-396754	I-U-8	2-1/2 X 3.025	62.04
TM-396755	I-U-8	3 X 3.525	75.27
TM-396756	I-P-1-8	3 X 4.025	114.59
TM-396757	P-U-1	2-3/8, 4-3/8, 5-3/4 Stages	339.32
TM-396758	I-P-U-1	1-7/8, 2-3/4, 3-5/8 Stages	185.47
TM-396759	I-V-1	2.700, 3.450, 5.700 Stgs.	232.55
TM-396760	I-V-1	2.200, 2.950, 4.700 Stgs.	180.86
TM-396761	I,P-N-8	3 X 5.025	158.17
TM-396801	P-U-1	3-3/8, 4-3/8, 5 Stages	403.09
TM-396842	P-UB-10	1-1/2 X 3-1/2	60.70
TM-396843	P-U-11	1-1/2 X 3-1/2	46.25
TM-396844	P-UB-11	1-1/2 X 3-1/2	48.47
TM-396845	I-U-11	1-1/4 X 3	36.10
TM-396846	P-UB-10	2 X 4-1/2	136.49
TM-396847	I-V-8	2 X 4.525	88.82

Kit Number	Code (Pg. xiv)	Rode X Bore Size	List Price
TM-396848	P-UB-11	1-1/4 X 3	\$64.43
TM-396849	I-V-8	2 X 5.025	102.02
TM-659060	O-RINGS		10.86
TM-690003	I-U-5	2 X 5	156.56
TM-691389	I-OB-3	1-1/2 X 2-1/2	33.73
TM-693683	O-RINGS		12.97
TM-694526	I-UB-5	2 X 5	150.02
TM-694527	I-UB-5	2-1/2 X 6	165.88
TM-694528	I-U-4,10	2 X 4-1/2	101.81
TM-695522	I-UB-5	1-1/4 X 3-1/2	107.73
TM-695523	I-UB-5	1-1/2 X 4	128.58
TM-901523	I-U-1	2-1/2, 3-1/4, 4 Stages	235.39
TM-905761	P-U-1	3-1/8, 4-3/8 Stages	306.50
TM-905771	P-U-1	2-3/8, 4-3/8 Stages	248.24
TM-905961	VALVE KIT		17.48
TM-905962	VALVE KIT		8.19
TM-906496	I-U-10	3 X 4	83.65
TM-911700	I-U-1	75 mm Rod Kit	69.87
TM-911701	I-U-1	50 mm Rod Kit	74.30
TM-911725	I-N-10	25 X 50 mm	72.18
TM-911726	I-U-10	35 X 80 mm	89.61
TM-911956	P-U-1	1-5/8 Rod Kit	35.71
TM-912067	P-UB-10	1-1/4 X 3	48.13
TM-912711	P-U-1	2-3/8 Rod Kit	55.50
TM-912748	P-U-1	2-3/8 Rod Kit	55.67
TM-914206	P-UB-10	2 X 4-1/2	101.36
TM-914634	I-U-1	3-3/4" Rod	61.21
TM-914635	I-U-10	2 X 2-1/2	106.02
TM-914636	N-U-10	4 X 4-1/2	159.05
TM-917170	U-SEAL	4-3/8	44.26
TM-917174	U-SEAL	2-1/4	11.94
TM-917175	U-SEAL	3-1/4	16.54
TM-917177	U-SEAL	2-3/4	14.27
TM-918024	P-U-4	150 X 180 mm	571.45
TM-919851	P-U-15	120 X 180 mm	1012.17
TM-920666	I-U-1	50 mm Rod Kit	60.78
TM-923282	I-U-10	2 X 2-1/2	167.99

REPLACEMENT PARTS FOR CATERPILLAR® TOWMOTOR LIFT TRUCKS

Part Number	Type	I.D.	O.D.	Hgt.	List Price
TM-5461	Vee Set	1-1/4	1-3/4		\$14.61
TM-41248	Vee Set	2.200	2.700	1	29.41
TM-41250	Vee Set	2.950	3.450	1	33.53
TM-41252	Vee Set	4.700	5.290	1	54.56
TM-41340	Vee Set	4.025	5.025	1.3	65.92
TM-67841	Vee Set	2.700	3.450		38.32
TM-67842	Vee Set	3.450	4.250	1.5	69.28

Part Number	Type	I.D.	O.D.	Hgt.	List Price
TM-67843	Vee Set	5.700	6.450		\$75.62
TM-303231	Wiper	1	1-3/8	3/16	4.08
TM-303233	Wiper	2			4.72
TM-303260	Vee Set	2.275	3.025	1.2	30.02
TM-371212	Modular Back-up Ring	5	5-3/4	.226	50.58
TM-903016	Wiper	5	5-3/4	3/8	72.35

CLARK LIFT TRUCKS

NOTE: A CLARK deck number can positively identify the kit needed for lift cylinders. Looking at the upright (lift mechanism) from the driver's seat, the deck number is stamped on the right outer channel.

SAMPLE: MO141, HO351, FO168, etc.

ALSO NOTE: Kits with an "E" suffix contain original equipment u-seals. Kits without "E" suffix contain Hercules Sealing Products designed seals.

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CLK-1795529	I-U-5	1-1/2 X 4	\$97.01
CLK-1810820	O-RINGS		16.97
CLK-1811046	I-U-10	1-1/4 X 3	40.64
CLK-1811107	I-N-4	2 X 2-1/4	42.12
CLK-1811108	I-N-4	2-1/4 X 2-1/2	32.58
CLK-1811120		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	235.66
CLK-1811120-E		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	382.46
CLK-1811122		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	316.41
CLK-1811122-E		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	440.44
CLK-1811123-E		3-1/4, 4-1/4 VID'S, 6-1/2 UID'S	464.37
CLK-1811124		2-1/8, 3-1/8 VID'S	136.87
CLK-1811125		2-1/8, 3-1/8, 4-1/2 VID'S	311.46
CLK-1811126		2-3/4, 3-3/4, 5-3/4 VID'S	329.86
CLK-1811127		2-3/4, 3-3/4, 5-3/4 VID'S	337.51
CLK-1811129	I-N-4	2-1/2 X 4	68.30
CLK-1811130		1-3/4, 2-5/8, 3-3/4 VID'S	197.04
CLK-1811131		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	252.49
CLK-1811131-E		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	344.53
CLK-1811132		1-3/4, 2-5/8 VID, 3-3/8, 4-1/2 UID	179.65
CLK-1811132-E		1-3/4, 2-5/8 VID, 3-3/8, 4-1/2 UID	280.31
CLK-1811133		1-3/4, 2-5/8 VID'S	93.37
CLK-1811142		1-3/4, 2-5/8, 3-3/4 VID'S	489.30
CLK-1811148		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	331.86
CLK-1811148-E		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	441.92
CLK-1811149	I-U-4	3-1/2 X 4-3/4	152.21
CLK-1811154	I-U-1	2-1/2 X 3-1/4	44.09
CLK-1811155	I-N-4	2-1/2 X 3	41.63
CLK-1811157	I-U-5	5 X 7	280.78
CLK-1811158	I-U-5	4-1/2 X 6	216.65
CLK-1811158-E	I-U-5	4-1/2 X 6	263.07
CLK-1811159		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	238.38
CLK-1811159-E		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	345.93
CLK-1811160		1-3/4, 2-5/8 VID, 3-3/8, 4-1/2 UID	178.35
CLK-1811160-E		1-3/4, 2-5/8 VID, 3-3/8, 4-1/2 UID	280.31
CLK-1811161		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	240.20
CLK-1811161-E		1-3/4, 3-1/8 VID, 3-7/8, 5-1/4 UID	334.86
CLK-1811162		2-1/8, 3-1/8, 4-1/2 UID'S	255.49
CLK-1811163		2-1/8, 3-1/8, 4-1/2 VID'S	315.17
CLK-1811164		1-3/4, 2-5/8, 3-3/8, 4-5/8 UID'S	159.30
CLK-1811164-E		1-3/4, 2-5/8, 3-3/8, 4-5/8 UID'S	311.56

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CLK-1811179	I-V-5	1-1/2 X 4	\$131.50
CLK-1811180	I-V-5	1-1/4 X 4	120.55
CLK-1811184	I-V-5	1-1/4 X 3	206.87
CLK-1811200	I-V-4	2 X 6	237.95
CLK-1811200-E	I-V-4	2 X 6	446.48
CLK-1811204	I-V-1	1-1/4 ROD	130.47
CLK-1811206	I-V-5	3/4 X 1-5/8	105.79
CLK-1811207	I-V-5	1 X 2	87.19
CLK-1811209	I-V-5	1 X 2-1/4	98.31
CLK-1811210	I-V-5	1-1/4 X 2-3/4	121.76
CLK-1811212	I-V-5	1-1/4 X 3-1/4	126.78
CLK-1811217	I-V-5	1-3/4 X 4-1/2	96.29
CLK-1811218	I-V-5	2 X 6	369.13
CLK-1811231	N-N-5	2.26" Piston Kit	65.43
CLK-1811244	I-U-10	1-1/8 X 2-1/4	42.36
CLK-1811275	I-V-5	1-1/2 X 4	99.48
CLK-1811309	I-U-10	1 X 3	22.66
CLK-1811314		1-3/4 VID, 3-1/8, 3-7/8, 5-1/4 UID	208.93
CLK-1811314-E		1-3/4 VID, 3-1/8, 3-7/8, 5-1/4 UID	298.67
CLK-1811315		1-3/4 VID, 3-1/8, 3-7/8, 5-1/4 UID	238.04
CLK-1811315-E		1-3/4 VID, 3-1/8, 3-7/8, 5-1/4 UID	303.02
CLK-1811327		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	279.12
CLK-1811327-E		2-1/8 VID, 3-7/8, 4-3/4, 6-1/2 UID	439.94
CLK-1811369	P-U-4	60 mm X 73 mm	105.13
CLK-1811376	I-U-10	40 mm X 4"	78.70
CLK-1811392	P-U-10	1-3/4 X 3	102.40
CLK-1811393	I-U-10	40 mm X 4"	87.08
CLK-1811415	P-U-4	60 X 78 mm	112.02
CLK-1811537	P-U-1	60 mm	109.58
CLK-1811538	I-U-4	40 X 56 mm	93.05
CLK-1811542	I-U-10	1-3/8 X 3	50.92
CLK-1811544	I-U-10	1 X 2	85.44
CLK-1811569	P-U-10	2 X 3-3/8	77.22
CLK-1811582	I-U-10	1-1/4 X 3-1/2	46.99
CLK-1811691	P-U-1	2 X 2.450	53.63
CLK-1811697	I-U-10	1-1/4 X 3-1/2	49.44
CLK-1811719	I-U-10	40 mm X 3-1/2	56.15
CLK-1811759	I-U-10	1-1/4 X 3	48.57
CLK-1811785	I-U-10	40 mm x 3-1/2	65.68
CLK-1811799	I-U-10	2 X 3-3/8	124.37

CLARK LIFT TRUCKS

CLARK

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CLK-1811820	I-U-10	2 X 3	\$49.37
CLK-1811828	I-U-10	2 X 3	43.62
CLK-1811852	I-U-1	3 X 3-1/2	96.93
CLK-1811855	P-U-1	60 mm X 72 mm	67.57
CLK-1811972	I-U-10	1-1/4 X 3	61.75
CLK-1813014	P-U-1	2 X 2-1/2	49.46
CLK-1813015	I-U-1	2-5/8 Rod Kit	108.41
CLK-1813016	I-U-1	3 X 3-1/2	85.90
CLK-1813017	P-U-1	60mm X 72 mm	67.57
CLK-1813023	I-U-1	40 mm X 2-3/16"	65.00
CLK-1813024	I-U-1	40 mm Rod Kit	32.44
CLK-1813032	I-U-10	50 mm X 3-3/8"	103.73
CLK-1813055	I-U-10	50 mm X 3-1/8"	108.76
CLK-1813075	I-U-10	40 mm X 3-1/2"	64.25
CLK-1813076	I-U-10	40 mm X 4"	68.65
CLK-1813082	I-U-10	50 X 86 mm	94.96
CLK-1813084	I-U-1	50 mm Rod Kit	37.29
CLK-1813176	I-U-4	60 X 73 mm	116.74
CLK-1818816	P-U-10	3/4 X 1-3/4	41.63
CLK-1818864	P-U-10	3/4 X 2	30.89
CLK-1821328	I-U-10	7/8 X 2	21.68
CLK-1830350	I-N-4	2 X 2-1/4	45.52
CLK-1830352	I-N-4	3-1/4 X 4	68.87
CLK-1830358	I-N-4	2-1/2 X 3-1/4	81.30
CLK-1830360	I-N-4	2-1/2 X 3	46.35
CLK-1830361	I-N-4	2-1/4 X 2-1/2	52.36
CLK-1830649	I-U-10	3/4 X 2-3/4	50.46
CLK-1831042	N-V-1	1-1/4" Rod Kit	15.04

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CLK-1831074	I-U-10	1-3/4 X 4-1/2	\$66.97
CLK-1831075	I-V-1	3-1/4 Rod Kit	66.77
CLK-1831076	I-U-10	1-1/8 X 2-1/2	42.12
CLK-1991085	P-TR-10	2 X 4	63.31
CLK-2367420	I-U-1	2-1/4 X 3-1/4	160.50
CLK-3009626	P-U-10	25 mm X 50 mm	106.60
CLK-3986876	MOTOR KIT		44.86
CLK-841270	P-U-10	2 X 3-3/4	54.71
CLK-886547	P-TR-12	1 X 2	75.22
CLK-896505	MOTOR KIT		11.20
CLK-905074	MOTOR KIT		24.74
CLK-907984	VALVE KIT		27.99
CLK-908985	VALVE KIT		26.72
CLK-912339	P-U-1	2-1/2 X 3	59.99
CLK-914698	I-U-4	1 X 2-1/2	42.43
CLK-914703	I-O-4	1-1/4 X 3	28.35
CLK-917282	O-RING KIT		12.27
CLK-917713	N-N-10	2" Piston Kit	34.35
CLK-918886	I-U-10	2 X 3-3/8	60.56
CLK-921115A	VALVE KIT		16.27
CLK-990076	VALVE KIT		6.85
CLK-990208	SWIVEL KIT		10.95
CLK-990209	SWIVEL KIT		16.38
CLK-992511	O-RING KIT		11.22
CLK-994287	VALVE KIT		19.36
CLK-995815	SWIVEL KIT		16.38
CLK-999820	P-U-10	3/4 X 1-3/4	53.92

CROWN LIFT TRUCKS

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CRN-087484	I-U-13	O-RING	\$6.74
CRN-088719		O-RING	6.03
CRN-089178		1-3/4 X 3-1/2	81.92
CRN-093217		O-RING	6.46
CRN-101296	I-U-1	2-1/2" Rod Kit	34.80
CRN-101301	I-U-1	2 ROD KIT	41.19
CRN-101302	I-U-1	1-7/8 X 2-1/2	108.63
CRN-101305	I-U-1	1-5/8 X Rod Kit	159.44
CRN-101309	I-U-1	1-7/8" ROD KIT	113.98
CRN-101310	I-U-1	2-1/2" ROD KIT	46.34
CRN-101313	I-U-1	1-3/8" Rod Kit	41.85
CRN-101314	I-U-1	2-1/8" ROD KIT	32.32
CRN-101316	I-U-1	2-3/8" ROD KIT	75.46
CRN-101323	I-V-1	1-7/8" Rod Kit	144.08
CRN-101326	I-U-1	2-3/8" Rod Kit	51.24
CRN-101329	I-U-1	1-7/8, 2-5/8 Stages	124.38
CRN-101331	I-U-1	1-3/4, 2-3/8 Stages	102.25
CRN-101332	I-U-1	1-3/4 X 2-1/2	34.11
CRN-101334	I-U-1	1-7/8, 2-5/8 Rod kit	128.62
CRN-101335	I-U-1	1-5/8, 2-1/4 Stages	110.83
CRN-101336	I-U-1	1-5/8, 2-1/4 Stages	114.70
CRN-101339	I-U-1	2" Rod Kit	126.81
CRN-101340	I-U-1	1-7/8 ROD KIT	34.81
CRN-101341	I-U-5	1-1/4 X 2-3/8	85.15
CRN-101342	I-U-3	1-1/2 X 3	112.45
CRN-101343	I-U-5	3/4 X 2	99.30
CRN-101346	I-U-5	3/4 X 1-3/4	70.99
CRN-101347	I-U-5	3/4 X 2-1/8	97.85
CRN-101376	I-U-5	1-1/4 X 3	135.63

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
CRN-101377	I-U-5	1 x 1-3/4	\$73.18
CRN-102659	I-O-1	VALVE KIT	7.93
CRN-105476004		O-RING	11.87
CRN-105476-6		O-RING	3.96
CRN-107366		1/2" Valve Kit	28.88
CRN-111573	I-U-1	3" ROD KIT	57.31
CRN-111574	I-U-1	2" ROD KIT	36.75
CRN-111790-001	I-U-4	O-RING	3.96
CRN-111790-12		O-RING	3.96
CRN-111790-2		O-RING	7.93
CRN-111790-3		O-RING	4.99
CRN-111790-4	I-U-13	O-RING	4.99
CRN-111790-9		O-RING	4.71
CRN-112022		7/8 X 2	35.55
CRN-112704		8, 9/16" Spools Rod Kit	30.73
CRN-113744	I-U-13	2-1/2 X 3-1/4	92.09
CRN-113745	I-U-13	3/4 x 1-3/4	45.70
CRN-115604	I-U-4	7/8 X 2	56.66
CRN-116360	N-O-1	O-RING	8.77
CRN-116820	I-U-1	2" rod kit	24.79
CRN-42249	I-U-1	56 X 80 mm	61.68
CRN-43023-1	N-O-1	VALVE KIT	50.70
CRN-78685		VALVE KIT	23.56
CRN-79017		VALVE KIT	7.28
CRN-87317		O-RING	6.46
CRN-89704	I-U-13	1-3/4 x 2-3/4	114.71
CRN-90880	I-U-5	3/4 X 1-3/4	73.74
CRN-94580	I-O-1	5/8" Rod kit	8.63

FARESIN

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
FAR-218301760	P-UB-15	80 mm X 130 mm	\$131.07

Forklifts

APPLICATION	CYL #	SERIAL #	CODE	ROD	BORE	KIT #	List \$
MODEL 552, 553							
ATTACHMENT ROTATE	L63594		I-U-10	1	2-1/2	GEHL-L99170	57.55
ATTACHMENT SLAVE	L63014		I-U-11	1-3/4	3-1/2	GEHL-L98527	59.55
ATTACHMENT TILT	L63013		I-U-11	2	4	GEHL-L98548	93.26
BOOM EXTEND	L63012		I-U-11	2-1/2	3-1/2	GEHL-L98558	114.75
BOOM LIFT	L63199		I-U-11	2-1/2	4-1/2	GEHL-L98521	105.42
FORK SHIFT	L66920		I-U-10	1-1/4	2	GEHL-L99958	120.63
FRAME LEVEL	L63015		I-U-11	1-3/4	4	GEHL-L98506	69.92
STEER	L98444		I-U-10	45 mm	90 mm	GEHL-L98565	177.79
MODEL 663							
BOOM EXTEND	L64333		I-U-10	3	4	GEHL-L99386	125.53
BOOM LIFT	L64014		I-U-10	3	4	GEHL-L99331	179.70
CARRIER SLAVE	L61869		I-U-10	1-3/4	3-1/2	GEHL-L99332	94.39
CARRIER TILT	L61868		I-U-10	2	4	GEHL-L99385	139.64
FRAME SWAY	L64054	Prior-4319	I-U-10	3	4	GEHL-L97674	105.22
	L64085	4320-4356	P-U-5	1-3/4	4	GEHL-L97903	100.67
	L64818	4357-UP	I-U-10	1-3/4	4	GEHL-L99382	117.47
ROTATE CARRIAGE	L61317		I-U-10	1-3/8	3	GEHL-L97769	70.01
STEER	L97649-L97976		I-U-10	1-1/8	2-1/4	GEHL-L97978	55.92
MODEL 883							
ATTACHMENT TILT	L49988A	7001-7004	I-U-10	2-1/2	5	GEHL-L97716	150.78
	L64086	7005-7444	P-U-10	2-1/2	5	GEHL-L97922	121.80
BOOM EXTEND	L64385	7001-7004	I-U-10	3-1/2	4-1/2	GEHL-L97713	121.42
	L66770	7446-UP	I-U-10	3-1/2	4-1/2	GEHL-L99376	145.72
BOOM LIFT	L64083	7005-7445	I-U-10	3-1/2	4-1/2	GEHL-L97908	81.30
	L64401	7001-7004	I-U-10	3-1/2	4-1/2	GEHL-L97711	101.23
BOOM SLAVE	L64087	7001-7004	I-U-10	2-1/4	4-1/2	GEHL-L97917	84.70
	L64087	7005-7171	I-U-10	2-1/4	4-1/2	GEHL-L97715	94.66
	L66032	7172-7444	I-U-10	2-1/4	4-1/2	GEHL-L97917	84.70
	L66666	7445-UP	I-U-11	2-1/4	5	GEHL-L99330	140.23
FORK SHIFT	L66920		I-U-10	1-1/4	2	GEHL-L99958	120.63
FRAME LEVEL	L64085	7005-7445	P-U-5	1-3/4	4	GEHL-L97903	100.67
	L64818	7001-7004, 7446-UP	I-U-10	1-3/4	4	GEHL-L99382	117.47
MAST LIFT	L66537		I-U-10	2	3	GEHL-L98848	57.72
OUTRIGGER	L64968	Prior-7386	I-U-10	2-1/2	4	GEHL-L97938	66.56
	L66642	7387-UP	I-U-11	2-1/2	4	GEHL-L99059	89.87
ROTATE CARRIAGE	L61317		I-U-10	1-3/8	3	GEHL-L97769	70.01
STEER	L97649		I-U-10	1-1/8	2-1/4	GEHL-L97978	55.92
	L99428		I-U-10	1-1/8	3	GEHL-L99430	70.79
SWING CARRIAGE	L63970	2781-UP	I-U-10	1-1/4	2-1/2	GEHL-L99944	56.50
	L65659	Prior-2780	I-U-10	1-3/8	3	GEHL-L97955	89.55

Loaders - Skid Steer

APPLICATION	CYL #	SERIAL #	CODE	ROD	BORE	KIT #	List \$
MODEL SL4240E							
LIFT	170-35000		I-U-10,12	1-1/4	2-1/4	GEHL-190-32923	22.43
TILT	190828		I-U-10,12	1-1/4	2-1/4	GEHL-190-32923	22.43
MODEL SL4640E							
LIFT	139452		I-U-10	1-1/2	2-1/2	GEHL-134848	20.67
TILT	183399		I-U-10	1-3/8	2-1/2	GEHL-134849	22.50
MODEL SL4840E							
LIFT	139452		I-U-10	1-1/2	2-1/2	GEHL-134848	20.67
TILT	183399		I-U-10	1-3/8	2-1/2	GEHL-134849	22.50
MODEL SL5240E							
LIFT	139452		I-U-10	1-1/2	2-1/2	GEHL-134848	20.67
TILT	183399		I-U-10	1-3/8	2-1/2	GEHL-134849	22.50
MODEL SL5640E							
LIFT	186074		I-U-10	1-1/2	2-3/4	GEHL-131299	19.93
TILT	183387		I-U-10	1-1/2	2-3/4	GEHL-131299	19.93
MODEL SL6640E							
LIFT	186074		I-U-10	1-1/2	2-3/4	GEHL-131299	19.93
TILT	183387		I-U-10	1-1/2	2-3/4	GEHL-131299	19.93

GEHL

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
GEHL-L97617	I-U-10	2 X 4	\$68.45
GEHL-L97674	I-U-10	3 X 4	105.22
GEHL-L97711	I-U-10	3-1/2 X 4-1/2	101.23
GEHL-L97713	I-U-10	3-1/2 X 4-1/2	121.42
GEHL-L97715	I-U-10	2-1/4 X 4-1/2	94.66
GEHL-L97716	I-U-10	2-1/2 X 5	150.78
GEHL-L97769	I-U-10	1-3/8 X 3	70.01
GEHL-L97903	P-U-5	1-3/4 X 4	100.67
GEHL-L97908	I-U-10	3-1/2 X 4-1/2	81.30
GEHL-L97917	I-U-10	2-1/4 X 4-1/2	84.70
GEHL-L97922	P-U-10	2-1/2 X 5	121.80
GEHL-L97938	I-U-10	2-1/2 X 4	66.56
GEHL-L97955	I-U-10	1-3/8 X 3	89.55
GEHL-L97978	I-U-10	1-1/8 X 2-1/4	55.92
GEHL-L98506	I-U-11	1-3/4 X 4	69.92
GEHL-L98521	I-U-11	2-1/2 X 4-1/2	105.42
GEHL-L98527	I-U-11	1-3/4 X 3-1/2	59.55
GEHL-L98548	I-U-11	2 X 4	93.26
GEHL-L98558	I-U-11	2-1/2 X 3-1/2	114.75
GEHL-L98565	I-U-10	45 X 90 mm	177.79
GEHL-L98848	I-U-10	2 X 3	57.72
GEHL-L99059	I-U-11	2-1/2 X 4	89.87
GEHL-L99170	I-U-10	1 X 2-1/2	57.55
GEHL-L99330	I-U-11	2-1/4 X 5	140.23
GEHL-L99331	I-U-10	3 X 4	179.70
GEHL-L99332	I-U-10	1-3/4 X 3-1/2	94.39
GEHL-L99376	I-U-10	3-1/2 X 4-1/2	145.72
GEHL-L99382	I-U-10	1-3/4 X 4	117.47
GEHL-L99385	I-U-10	2 X 4	139.64
GEHL-L99386	I-U-10	3 X 4	125.53
GEHL-L99430	I-U-10	1-1/8 X 3	70.79
GEHL-L99944	I-U-10	1-1/4 X 2-1/2	56.50
GEHL-L99958	I-U-10	1-1/4 X 2	120.63

GENIE

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
GENIE-07.0721.0120GT	I-U-15	70 X 110	\$121.56
GENIE-07.0721.0121GT	I-U-15	50 X 70	145.25
GENIE-07.0721.0122GT	I-U-15	50 X 100	144.70
GENIE-07.0721.0123GT	I-U-15	60 X 120	115.13
GENIE-101252	P-U-15	100 X 140	251.14
GENIE-101254	I,P-U-15	40 X 75	94.40
GENIE-102126	MISC		182.19
GENIE-105549GT	I-U-10	55 x 75	92.68
GENIE-105550GT	I-U-10	20 X 40	69.31

GENIE

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
GENIE-106119	MISC		\$123.52
GENIE-106125	MISC		64.09
GENIE-106508	MISC		95.04
GENIE-107813	WASHER		9.18
GENIE-110202	34542 VALVE KIT		17.56
GENIE-122944GT	Rotator Seal Kit		265.15
GENIE-1286600GT	Wheel Drive Kit		72.92
GENIE-1286600GT	Valve Kit		72.92
GENIE-130917	I-U-15	40 X 90	73.12
GENIE-139972	MISC		379.25
GENIE-18471	I-SP-10	1.5 X 2.5	61.61
GENIE-226542	MISC		262.32
GENIE-230483	I-U-10	1.750 X 4	103.45
GENIE-33487	I-U-10	1.5 X 3	83.80
GENIE-43018	O-rings + Back-ups		31.18
GENIE-44233	CHECK VALVE KIT		19.97
GENIE-44250	I-U-10	.750 X 20	56.00
GENIE-45898	I-SP-10	2 X 4	51.86
GENIE-52620	I-U-10	1.500 X 30	41.30
GENIE-59050	I-U-14	1.5 X 2.5	94.66
GENIE-59169	I-U-10	10 X 20	51.91
GENIE-59444	I-U-10	1.750 X 2.5	87.22
GENIE-62417	N-TR-5,11	2.125 X 3.5	239.28
GENIE-63350	P-U-15	40 X 75	104.13
GENIE-63353	P-U-15	40 X 63	121.33
GENIE-63354	P-U-15	40 X 63	83.83
GENIE-635965	I-U-15	60 X 120	124.10
GENIE-640096	I-U-15	70 X 110	84.86
GENIE-65789	P-U-15	32 X 50	104.05
GENIE-66470	I-N-1	3	84.97
GENIE-7-234-31	CARTRIDGE SEAL KIT		36.67
GENIE-7-229-920GT	I-U-10	50 X 100	184.87
GENIE-7-900-33	P-U-11	3 X 4-1/2	236.94
GENIE-7-900-88GT	I-U-10	45 x 90	167.97
GENIE-7-900-180	I-U-10	1.5 X 3.5	74.84
GENIE-72047	O-rings		22.91
GENIE-74902GT	Valve Kit		10.37
GENIE-75469GT	P-U-15	40 x 63	68.74
GENIE-77189	P-U-15	45 X 90	92.16
GENIE-77364	P-U-15	40 X 75	68.65
GENIE-77520	Swivel Kit		530.43
GENIE-77521	P-U-15	45 X 63	54.15
GENIE-84394	Check Valve Kit		12.19
GENIE-88338	P-U-10	25 X 50	65.21
GENIE-88349GT	P-U-10	40 x 63	97.62
GENIE-89066	P-U-10	25 X 50	80.71
GENIE-89294	P-U-10	40 X 63	74.76

GENIE

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
GENIE-89310	O-rings + Back-ups		\$22.78
GENIE-89312GT	Valve Seal Kit		14.03
GENIE-94255	P-U-15	32 X 50	161.25
GENIE-94256	P-U-15	32 X 50	161.25

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
GENIE-94258GT	P-U-15	40 x 75	\$83.35
GENIE-94620	MISC		73.84
GENIE-94625	O-Rings + Back-Ups		33.57
GENIE-94937	MISC		467.18

HIDROMEK

Kit Number	Code (Pg. xiv)	Rod	Bore	List Price
HIDMK-S4880955	N-N-15	-	90 mm	\$85.26
HIDMK-S4881040	N-N-10	-	105 mm	30.69

Kit Number	Code (Pg. xiv)	Rod	Bore	List Price
HIDMK-S4891231	I-UB-1	60 mm	-	\$45.79
HIDMK-S4891240	I-UB-1	60 mm	-	46.06

HYSTER

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
HYS-1332565	I-U-1	1-7/8 X 2-1/4	\$75.77
HYS-1334570	I-U-4	3-1/2 X 4	109.74
HYS-1334571	I-N-5	4 X 4-1/2	138.26
HYS-133462	I-V-1	1-3/4" ROD	32.21
HYS-1355337		GEAR KIT	39.38
HYS-144267		O-RING KIT	19.47
HYS-148292	N-N-8	3-1/4" PISTON KIT	85.32
HYS-148414	I-V-1	1-3/4" ROD	35.12
HYS-149193	N-N-P	2-1/2" BORE	31.46
HYS-149194	P-V-1	1-3/4 X 2-1/2	43.15
HYS-149254	I-V-1	1-3/4" ROD	29.48
HYS-149258	P-V-1	2" ROD	66.17
HYS-149259	N-V-1	2-1/4" ROD	38.35
HYS-149260	I-V-1	1-1/4" ROD	36.24
HYS-149292		O-RING KIT	10.93
HYS-1494726	P-U-10	1-3/4 X 4	52.02
HYS-168801	N-U-12	1 X 3	94.59
HYS-170881	P-V-8	1-1/4 X 3	63.46
HYS-2026822	P-U-10	35 X 65 mm	129.19
HYS-2085015	P-U-13	35 X 70 mm	101.81
HYS-226074	I-U-8	1-1/2 X 3-1/2	80.92
HYS-2302714	I-U-11	28 mm X 2-1/2	31.49
HYS-2303974	I-U-1	3 X 3-3/4	76.64
HYS-250050	P-U-10	1-1/2 X 3-1/2	62.22
HYS-250051	P-U-10	1-1/4 X 3	66.04
HYS-250550	I-U-4	4-1/4 X 6	198.73
HYS-250559	I-U-4	5-1/4 X 7-1/2	273.03
HYS-250603	I-U-8	1 X 2-1/2	76.40
HYS-250937	I-U-8	1-1/2 X 3.525	182.36
HYS-250943	I-U-1	3.70, 5.45 Stages	335.58

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
HYS-280182	I-O-10	1 X 2-1/4	\$24.22
HYS-280537	I-U-4	2-1/8 X 2-1/2	83.33
HYS-281474	P-U-10	1-1/2 X 3-1/2	65.31
HYS-281815	I-U-10	1-3/4 X 3-1/2	33.45
HYS-281822	I-U-10	1-1/4 X 3	30.62
HYS-281855	I-U-10, 12	1-3/4 X 3-1/2	69.18
HYS-281859	I-U-10, 12	2-1/4 X 3-1/2	73.67
HYS-281864	I-U-10	1-3/4 X 3-1/2	33.69
HYS-314993		O-RING KIT	9.63
HYS-318005	I-U-1	2-3/4, 3-3/4 Stages	109.88
HYS-321758	I-U-10	2-1/4 X 4-1/2	49.62
HYS-321909	I-U-5	3 X 4-3/4	182.28
HYS-323645	I-U-8	1-3/4 X 4	90.77
HYS-327393	I-U-4	2-1/8 X 2-1/2	60.94
HYS-328074	I-U-10	1-1/4 X 2-3/4	36.69
HYS-328121	P-U-10	1-1/4 X 3	71.53
HYS-328226	P-U-10	1-3/4 X 4-1/4	74.37
HYS-333742	P-U-10	2-1/8 X 3	106.82
HYS-334997	I-U-10	1-1/4 X 2-3/4	42.57
HYS-337281	I-U-4	1-3/8 X 2	59.84
HYS-339347	I-U-4	4, 5 Stages	252.84
HYS-340079	N-U-4	1-3/4 X 2-3/4	77.41
HYS-355695	P-U-10	1-3/8 X 3	63.67
HYS-355909	I-U-5	1-1/2 X 4	91.07
HYS-381762	I-U-10	2-7/8 X 4-1/2	100.43
HYS-383991	P-U-10	1-1/4 X 3	60.94
HYS-48628	I-U-4	3/4 X 1-5/8	30.60
HYS-629326		HOSE REEL KIT	11.96
HYS-639456	I-U-4	3 X 3-1/2	97.00
HYS-643280	I-U-4	3 X 3-1/2	102.57

KALMAR

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
KAL-920670.0003	P-U-13	32 X 63 mm	\$172.29
KAL-920673.0005	P-U-15	80 X 125 mm	228.57
KAL-920744.0001	P-U-13	32 X 63 mm	163.71
KAL-920744.0002	I-U-13	40 X 80 mm	227.17
KAL-920744.0003	P-U-10	60 X 80 mm	239.36

Kit Number	Code (Pg. xviii)	Rod X Bore Size	List Price
KAL-920744.0005	P-U-10	70 X 125 mm	\$274.70
KAL-920744.0006	P-U-15	70 X 160 mm	169.51
KAL-920744.0013	P-U-15	90 X 180 mm	196.90
KAL-921307.0001	P-U-10	50 X 100 mm	267.87

REPLACEMENT PARTS FOR KALMAR

NOTE: Kalmar part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

BACK-UP RINGS

Part Number	Min. Pkg Qty	List Price
KAL-0926644	10	\$1.72
KAL-0930280	5	2.59
KAL-4741128	10	1.46
KAL-8653585	10	1.72
KAL-8653594	1	3.87
KAL-931868-4	10	1.55

O-RINGS

Part Number	Min. Pkg Qty	List Price
KAL-0922571	50	\$0.09
KAL-0923376	50	0.09
KAL-0923379	50	0.12
KAL-0923558	50	0.08
KAL-0923560	50	0.08
KAL-0923561	50	0.09
KAL-0923562	50	0.13
KAL-0923563	50	0.16
KAL-0923564	50	0.25
KAL-0923565	50	0.09
KAL-0923566	50	0.13
KAL-0923567	50	0.13
KAL-0923568	50	0.16
KAL-0923569	20	0.27
KAL-0923570	20	0.31
KAL-0923571	20	0.37
KAL-0923572	20	0.39
KAL-0923573	20	0.39
KAL-0923574	50	0.13
KAL-0923575	50	0.22
KAL-0923576	20	0.39
KAL-0923577	20	0.72
KAL-0923578	20	0.43
KAL-0923579	20	0.52
KAL-0923580	20	0.52
KAL-0923582	20	0.71
KAL-0923584	20	0.78
KAL-0923585	20	0.84
KAL-0923586	20	0.93
KAL-0923587	20	0.97
KAL-0923591	10	1.06
KAL-0923598	10	1.18
KAL-0923599	10	1.42
KAL-0923644	50	0.22
KAL-0923645	50	0.12

O-RINGS

Part Number	Min. Pkg Qty	List Price
KAL-0923646	20	\$0.35
KAL-0923648	50	0.25
KAL-0923649	50	0.27
KAL-0923650	20	0.43
KAL-0923651	20	0.74
KAL-0923663	50	0.09
KAL-0923664	20	0.35
KAL-0923702	20	0.63
KAL-0923718	50	0.27
KAL-0923719	50	0.12
KAL-0923810	50	0.16
KAL-0923811	50	0.25
KAL-0923812	50	0.27
KAL-0923813	20	0.30
KAL-0923814	20	0.56
KAL-0923815	20	0.67
KAL-0923816	20	0.88
KAL-0923817	20	0.95
KAL-0923826	20	0.43
KAL-0923827	20	0.88
KAL-0923828	20	0.95
KAL-0923829	20	0.97
KAL-0923831	10	1.54
KAL-0923832	10	1.58
KAL-0923833	10	1.58
KAL-0923843	50	0.04
KAL-0923845	50	0.08
KAL-0923847	50	0.12
KAL-0923848	50	0.13
KAL-0923849	50	0.12
KAL-0923850	20	0.31
KAL-0923851	50	0.16
KAL-0923852	20	0.63
KAL-0923855	10	1.31
KAL-0923856	20	0.67
KAL-0923865	20	\$0.37
KAL-0923896	20	0.31
KAL-0923922	20	0.78
KAL-0923934	50	0.16
KAL-0923935	20	0.88
KAL-0923936	10	1.14
KAL-0923944	50	0.04
KAL-0923945	50	0.12
KAL-0923947	50	0.16
KAL-0923948	50	0.25
KAL-0923949	20	0.56

O-RINGS

Part Number	Min. Pkg Qty	List Price
KAL-0923988	50	\$0.13
KAL-0923989	50	0.16
KAL-0924003	50	0.09
KAL-0924038	20	0.39
KAL-0924137	20	0.25
KAL-0924158	20	1.07
KAL-0924187	20	0.88
KAL-0924416	50	0.16
KAL-0924686	10	1.37
KAL-0924859	20	0.27
KAL-0927902	50	0.04
KAL-0930897	50	0.13
KAL-231416	50	0.13
KAL-4255395	50	0.18
KAL-4910140	50	0.09
KAL-4910366	20	0.35
KAL-4910375	50	0.30
KAL-4910378	10	1.89
KAL-4910379	20	0.67
KAL-70923812	50	0.27
KAL-70923829	20	0.97
KAL-70924003	50	0.09
KAL-70926560	5	1.72
KAL-8653584	20	0.78

NYLON PLUGS

Part Number	Rod Dia.	List Price
KAL-74816749	1/8 x 5/32	\$0.91

PISTON SEALS

Part Number	Bore Dia.	List Price
KAL-4909279	2-1/2	\$11.38

PISTON U-SEALS

Part Number	Bore Dia.	List Price
KAL-4910347	4	\$28.27

REPLACEMENT PARTS FOR KALMAR

NOTE: Kalmar part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

RETAINER RINGS

Part Number	List Price
KAL-231423	\$6.65
KAL-4255082	6.70
KAL-4910370	4.13
KAL-4910376	14.16
KAL-4910377	5.83
KAL-927822	15.05

U-SEALS

Part Number	Rod Dia.	List Price
KAL-78630662	1-1/2	\$18.04
KAL-4850624-0	2-1/2	15.02
KAL-74820556	2-5/8	15.69
KAL-8653586	2-3/4	16.43
KAL-8653592	4-1/2	37.62
KAL-8653595	4-1/2	27.94
KAL-74843499	5	36.88

WEAR RINGS

Part Number	OD X W	List Price
KAL-4910372	2-1/2 X 3/8	\$5.76
KAL-4850622-4	2-3/4 X 1	7.56
KAL-4910373	4 X 1/2	6.26
KAL-74844040	5-1/2 X 1	10.01

WIPERS

Part Number	Rod Dia.	List Price
KAL-4908498	1	\$1.61
KAL-74857829	1-1/4	7.28
KAL-4911395	2	2.76
KAL-4910380	2-1/2	3.31
KAL-74820557	2-5/8	11.98
KAL-8653582	2-3/4	3.50
KAL-74845370	3	27.66
KAL-8653591	4-1/2	5.93

KOMATSU LIFT TRUCKS

NOTE: Komatsu part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
KOM-34A-63-05010	I-U-4,12	50 X 70 mm	\$203.95
KOM-34A-64-05010	I-U-1	30mm Rod Kit	38.08
KOM-34B-63-05011	I-U-4,10	55 X 80 mm	256.52
KOM-34B-63-05021	I-U-4,10	60 X 80 mm	245.08
KOM-34B-64-05010	I-U-1	35 X 50 mm	54.91
KOM-3EA-64-05020	I-U-1	25 X 60 mm	60.67
KOM-3EA-64-05030	I-U-1	35mm Rod Kit	65.89
KOM-3EA-64-05190	I-U-10	1 X 2-1/2	66.00
KOM-3EB-34-05010	O-Ring Kit		32.67
KOM-3EB-63-05010	P-U-4	40 X 50 mm	145.44
KOM-3EB-63-05020	P-U-4	45 X 55 mm	65.25
KOM-3EB-64-05010	I-U-1	25 X 50 mm	51.64
KOM-3EB-64-05020	I-U-1	25 X 50 mm	79.09

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
KOM-3EB-64-05020L	P-U-10	25 X 50mm	\$45.64
KOM-3EB-64-05050	I-U-1	30 X 70 mm	60.70
KOM-3EB-64-05050L	I-U-3	30 X 70 mm	54.94
KOM-3EB-64-05060	I-U-1	35 X 65 mm	53.65
KOM-3EB-64-05091	I-U-3	30 X 70 mm	44.65
KOM-3EB-64-05190	I-U-10	1-1/4 X 2-3/4	79.41
KOM-3EB-64-A2000	I-U-10	1-5/8 X 2-1/2	101.79
KOM-3EB-64-A5191	I-U-10	1-1/4 X 2-3/4	132.58
KOM-3EC-63-05020	P-U-4	50 X 70 mm	100.50
KOM-3EC-64-05010L	I-U-3	45 X 90 mm	63.04
KOM-3EC-64-05190	I-U-10	1-3/4 X 3-1/2	74.58
KOM-3EC-64-A2390	I-U-10	1 X 2	55.95
KOM-ON43001-07567	I-U-10	50 X 75 mm	165.80

LULL

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
LULL-3586-34	I-U-10	1-1/8 X 3	\$47.58

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
LULL-P19382	I-U-10	1-1/8 X 2-1/2	\$27.81

MITSUBISHI LIFT TRUCKS

NOTE: Mitsubishi part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
MIT-91254-10330	P-U-10	22 X 45mm	\$71.79
MIT-91254-30330	P-U-10	22 X 45mm	63.27
MIT-91255-11120	I-U-10	22.4 X 45 mm	63.87
MIT-91273-30150	Valve Kit		9.08
MIT-91273-30220	Valve Kit		8.85
MIT-91854-15310	I-U-10	25 X 55 mm	57.55
MIT-91854-40230	P-U-10	25 X 55 mm	74.36
MIT-91872-22120	Valve Kit		13.20
MIT-93051-00028	I-U-4	2 in X 75 mm	184.26
MIT-93051-10068	I-U-4	40 X 50 mm	78.04
MIT-94004-00120	P-UB-1	30 mm Rod Kit	58.77
MIT-94004-00130	N-N-15	63 mm Piston Kit	87.74
MIT-94104-00110	N-N-13	70 mm Piston Kit	109.91
MIT-94104-00120	P-UB-1	35 mm Rod Kit for 70 mm Bore	61.68
MIT-94104-00170	I-U-10	30 X 63 mm	79.66
MIT-94114-00110	I-U-4	50 X 70 mm	127.87
MIT-94114-00210	I-U-4	60 X 70 mm	71.76
MIT-94119-00018	I-U-1	70 mm Rod Kit	70.37
MIT-94119-00048	I-U-1	50 mm Rod Kit	33.28
MIT-94119-00068	P-U-1	32 mm Rod Kit	60.85
MIT-94119-00088	P-U-1	32 mm	64.69
MIT-94133-00018	I-N-4	40 X 50 mm	100.94
MIT-94151-00018	P-U-1	70 mm Rod Kit	74.72
MIT-94151-00028	P-U-1	70 mm Rod Kit	80.44
MIT-94162-00018	P-U-4	35 X 45 mm	68.99

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
MIT-94204-10120	I-U-10	35 X 70 mm	38.78
MIT-94219-00018	P-U-1	35 mm Rod Kit	25.31
MIT-94219-00028	P-U-1	35 mm Rod Kit	40.95
MIT-94251-00018	I-U-1	75 mm Rod Kit	70.84
MIT-94251-00038	P-U-1	75 mm Rod Kit	97.53
MIT-94251-00058	P-U-1	75 mm Rod Kit	76.01
MIT-94262-00028	P-U-4	40 X 50 mm	131.39
MIT-94304-00110	N-N-13	80 mm Piston Kit	122.03
MIT-94304-00120	P-UB-1	35 mm Rod Kit for 80 mm Bore	69.53
MIT-94304-10140	I-U-10	35 X 80 mm	58.38
MIT-94314-00110	I-U-1	65 X 80 mm	71.88
MIT-94319-00018	I-U-1	60 mm Rod Kit	38.47
MIT-94319-00038	I-U-1	85 mm Rod Kit	67.17
MIT-94319-00068	P-U-1	40 mm Rod Kit	27.05
MIT-94319-00088	I-U-1	40 mm Rod Kit	86.21
MIT-94351-00018	I-U-1	80 mm Rod Kit	\$51.23
MIT-94351-00028	P-U-1	45 X 55 mm	152.77
MIT-94351-00038	P-U-1	85 mm Rod Kit	102.98
MIT-94351-00068	P-U-1	85 mm Rod Kit	97.32
MIT-94362-00018	P-U-1	45 X 55 mm	152.77
MIT-94404-00120	P-UB-3	45 X 90 mm	92.17
MIT-94404-10140	I-U-10	40 X 80 mm	137.84
MIT-94404-10160	I-U-10	40 X 90 mm	114.68
MIT-94504-02090	P-U-1	40 X 100 mm	76.44

MANITOU

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
MATU-198641	P-U-15	60 X 125	\$55.41
MATU-548990	P-U-15	55 X 110	41.30

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
MATU-746367	P-U-15	70 X 120	\$46.87
MATU-746369	P-U-15	70 X 110	54.16

REPLACEMENT KITS FOR NISSAN LIFT TRUCKS

NOTE: A cylinder number will help in determining the proper kit part number. If no cylinder number is available, furnish rod and bore sizes and description of parts.

NISSAN

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
NN-49440-00H00	MOTOR KIT		\$13.71
NN-49510-L6025	P-U-10	25 X 55 mm	106.86
NN-49599-11H00	P-U-10	40 X 60 Double Rod	146.48
NN-49599-51K00	P-U-10	40 X 65 mm	146.38
NN-49599-FC000	I-U-10	40 mm X 2-3/8	120.29
NN-58099-00H00	P-U-4	35 X 45 mm	100.88
NN-58099-00H60	P-U-4	35 X 45 mm	71.60
NN-58099-0G211	I-U-4	2 in X 75 mm	51.33
NN-58099-0G511	I-U-4	2 in X 80 mm	171.69
NN-58099-10H00	P-U-5	40 X 50 mm	174.59
NN-58099-10H60	P-U-4	40 X 50 mm	66.65
NN-58099-20H12	P-U-4	45 X 60 mm	119.03
NN-58099-20H62	P-U-4	45 X 60 mm	61.77
NN-58099-23H00	P-U-1	45 X 55 mm	86.48
NN-58099-23H60	P-U-4	45 X 55 mm	75.89
NN-58099-31K11	I-U-4	2" X 2-3/4"	67.22
NN-58099-51H10	P-U-14	50 X 70 mm	136.35
NN-58099-51H60	P-U-4	50 X 65 mm	62.80
NN-58099-51H70	P-U-4	50 X 70 mm	102.92
NN-58099-L2600	P-U-4	40 X 50 mm	163.77
NN-58099-L4900	P-U-1	55 mm Rod Kit	88.93
NN-58099-L6000	P-U-4	50 X 70 mm	201.19
NN-58099-L6001	P-U-4	60 X 70 mm	214.71
NN-58099-L900	P-U-1	55 mm Rod Kit	88.93
NN-58099-L9010	P-U-4	60 X 80 mm	115.41
NN-58099-L9016	P-U-15	65 X 80 mm	119.18
NN-58199-L1100	I-U-4	50 X 70 mm	183.22
NN-58199-L1300	I-U-4	60 X 80 mm	200.42
NN-58199-L1400	I-U-4	45 X 65 mm	174.68
NN-58199-L1700	I-U-4	50 X 70 mm	183.22
NN-58199-L6000	I-U-4	65 X 90 mm	207.50
NN-58199-L6100	I-U-4	70 X 100 mm	214.91
NN-58299-01H00	P-U-1	32 mm Rod Kit	71.81
NN-58299-11H00	P-U-1	35 X 55 mm	79.66
NN-58299-L1100	I-U-1	60, 80, 112mm Stages	157.50

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
NN-58399-L1100	I-U-4	60 X 90 mm	\$205.33
NN-58499-02H10	P-U-1	70 mm Rod Kit	105.24
NN-58499-12H11	P-U-1	75 X 85 mm	136.49
NN-58499-22H10	P-U-1	90 mm Rod Kit	121.44
NN-58499-25H10	P-U-1	80 mm Rod Kit	137.31
NN-58499-6G500	I-U-4	2 in X 60 mm	185.51
NN-58499-L1100	I-U-1	80 mm Rod Kit	96.50
NN-58499-L1101	I-U-1	50 mm Rod Kit	61.47
NN-58499-L1102	I-U-1	50 mm Rod Kit	64.67
NN-58499-L1400	I-U-1	70 mm Rod Kit	82.38
NN-58499-L1401	I-U-1	45 mm Rod Kit	57.27
NN-58499-L1402	I-U-1	45 mm Rod Kit	60.31
NN-58499-L6000	I-U-4	70 X 100 mm	178.74
NN-58499-L6001	P-U-1	65mm Rod Kit	101.00
NN-58499-L7401	P-U-1	45 mm Rod Kit	49.34
NN-58699-00H00	P-U-1	25 X 65 mm	101.93
NN-58699-05H00	P-U-1	30 X 65 mm	94.32
NN-58699-10H00	P-U-3	30 X 70 mm	102.56
NN-58699-14H00	P-U-3	35 X 70 mm	106.00
NN-58699-20H00	P-U-1	35 X 80 mm	79.09
NN-58699-21H00	P-U-1	40 X 80 mm	95.59
NN-58699-51K00	P-U-3	30 X 60 mm	60.44
NN-58699-L1125	I-U-1	35 mm Rod Kit	67.33
NN-58699-L1126	I-U-1	35 mm Rod Kit	71.49
NN-58699-L1425	I-U-1	30 mm Rod Kit	71.49
NN-58699-L1426	I-U-1	30 mm Rod Kit	63.27
NN-58699-L6000	I-U-1	40 mm Rod Kit	72.35
NN-58699-L6011	I-U-1	40 mm Rod Kit	78.26
NN-58699-L6800	I-U-1	45 mm Rod Kit	81.22
NN-58699-L6811	I-U-1	45 mm Rod Kit	87.46
NN-58699-L8100	I-U-1	35 X 80 mm	50.14
NN-58699-L9000	I-U-1	50mm Rod Kit	83.41
NN-58699-L9010	I-U-1	50 X 100 mm	100.80
NN-69399-90H00		9/16" Valve Kit	11.30
NN-69399-L1202		9/16" Valve Kit	33.71

REPLACEMENT PARTS FOR NISSAN EQUIPMENT

NOTE: Nissan part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

O-RINGS

Part Number	Min Pkg Qty	List Price
NN-49516-L6004	10	\$1.20
NN-49526-L6004	10	4.39
NN-58117-L6000	20	0.99
NN-58122-L0700	2	5.93
NN-58123-L1100	5	2.50
NN-58123-L1300	5	2.42
NN-58123-L1400	10	1.58
NN-58124-L1300	5	8.67
NN-58124-L1400	10	2.01
NN-58124-L6100	5	2.86
NN-58142-L0800	5	3.41
NN-58185-48570	5	8.67
NN-58225-47600	2	4.65
NN-58245-47701	25	0.47
NN-58248-47230	2	7.62
NN-58251-48570	2	6.48
NN-58417-L1100	10	1.93
NN-58423-L1100	2	7.11
NN-58423-L1400	2	6.70
NN-58424-L1100	5	2.82
NN-58424-L1400	5	3.27
NN-58624-L3100	5	2.44
NN-58624-L6800	5	2.51
NN-58634-L3100	25	0.47
NN-69386-L1106	20	0.78
NN-69399-L2500	10	3.27
NN-85225-47600	2	4.65
NN-E8122-F8101	10	1.82
NN-G9386-L1106	20	0.78

PISTON U-SEALS

Part Number	Bore Dia.	List Price
NN-58140-L1401	65 mm	\$49.99
NN-58140-L1100	70 mm	49.99
NN-58140-L6000	90 mm	59.06
NN-58140-L6100	100 mm	59.06

U-SEALS

Part Number	Rod Dia.	List Price
NN-49522-L6004	25 mm	\$4.09
NN-58621-L1400	30 mm	9.59
NN-58621-L1100	35 mm	14.51
NN-58221-24H00	38 mm	17.15
NN-58621-L3100	40 mm	15.90
NN-58121-L1400	45 mm	18.75
NN-58242-L1400	65 mm	19.96
NN-30961-08012	80 mm	37.15

BUSHINGS

Part Number	Rod Dia.	List Price
NN-49521-FC000	60 mm	\$5.09

WIPERS

Part Number	Rod Dia.	List Price
NN-49524-L6004	25 mm	\$21.84
NN-58622-L1400	30 mm	10.18
NN-58222-01H01	32 mm	27.16
NN-58222-24H01	38 mm	37.09
NN-58622-L3100	40 mm	6.19
NN-58122-L1400	45 mm	7.58
NN-58017-L1300	50 mm	30.87
NN-58122-L1100	50 mm	8.60
NN-58017-L4900	55 mm	35.27
NN-58017-L6007	60 mm	38.22
NN-58122-L1300	60 mm	11.16
NN-58243-L1400	65 mm	11.89
NN-58453-L6000	65 mm	40.54
NN-58422-L1400	70 mm	12.40
NN-58243-L1100	80 mm	13.73

NISSAN

RAYMOND LIFT TRUCKS

RAYMOND

Kit Number	Code (Pg. x)	Rod X Bore Size	List Price
RAY-400-148-01	O-RING KIT		\$9.37
RAY-500-412-02	O-RING KIT		16.43
RAY-520-037-15	O-RING KIT		0.93
RAY-520-038-12	O-RING KIT		9.37
RAY-520-041-01	O-RING KIT		8.79
RAY-520-044-01	O-RING KIT		9.37
RAY-520047004	P-U-10	3/4 X 1-3/4	59.65
RAY-520-053-01	O-RING KIT		9.37
RAY-520-066-01	O-RING KIT		10.94
RAY-520-077-01	VALVE KIT		46.38
RAY-520-817-08	O-RING KIT		9.37
RAY-520-899-113	O-RING KIT		4.99
RAY-53072101	I-U-11	3/4 X 2-1/2	38.40
RAY-530-722-02	I-U-11	1 X 2-1/2	39.18

Kit Number	Code (Pg. x)	Rod X Bore Size	List Price
RAY-53072702	P-U-1	1-3/4	\$188.36
RAY-53073101	I-U-11	1-1/4 X 2-1/2	39.02
RAY-53073102	I-U-11	1-1/4 X 3	55.41
RAY-54004105	P-OB-10	3/4 X 1-3/4	72.62
RAY-540041105	P-OB-10	3/4 X 1-3/4	50.57
RAY-540-043-07	P-OB-10	3/4 X 1-3/4	65.18
RAY-540-046-05	P-OB-10	3/4 X 1-3/4	93.45
RAY-540-052-01	SEAL KIT		5.68
RAY-540-056-06	SEAL KIT		10.46
RAY-540067214	I-U-13	1-3/4 X 3-1/2	85.13
RAY-540113269	I-U-13	1-3/4 X 3-1/2	63.97
RAY-870-460-217	VALVE KIT		29.84
RAY-870-607-26	VALVE KIT		16.23

REPLACEMENT KITS FOR TCM LIFT TRUCKS

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TCM-20804-59801	P-U-10	25 X 60 mm	\$89.83
TCM-210F0-89804	P-U-4	35 X 45 mm	164.76
TCM-210F8-49804	P-U-4	35 X 46 mm	114.44
TCM-214A0-59801	P-U-10	75 X 90 mm	191.63
TCM-214A0-59821	P-U-1	35 X 45 mm	100.88
TCM-214A0-89804	P-U-4	40 X 50 mm	115.30
TCM-214A4-59801	P-U-10	25 X 50 mm	84.93
TCM-214A8-49804	P-U-4	40 X 50 mm	133.60
TCM-214A8-49812	P-U-4	40 X 50 mm	139.90
TCM-214A8-59801	P-U-5	32 X 71 mm	238.12
TCM-214J0-59812	P-U-1	40 X 50 mm	135.12
TCM-214J8-49804	P-U-4	45 X 55 mm	134.84
TCM-214T0-89811	P-U-4	50 X 60 mm	175.62
TCM-214T8-49801	P-U-4	50 X 60 mm	168.25
TCM-22438-49811	P-N-4	60 X 90 mm	160.44
TCM-22438-49812	P-N-4	60 X 90 mm	77.48
TCM-22438-59804	P-U-5	40 X 90 mm	260.26
TCM-224T8-49803	P-U-1	50 X 65 mm	143.88
TCM-22578-49801	P-N-4	45 X 63 mm	162.76
TCM-22580-89801	P-N-4	45 X 70 mm	115.30
TCM-22678-59801	P-U-5	32 X 80 mm	136.87
TCM-228C0-59801	P-U-1	112 X 130 mm	555.08
TCM-23460-89801	P-N-4	50 X 90 mm	129.36
TCM-234A8-49803	P-U-4	40 X 50 mm	96.83
TCM-234A8-59805	P-U-5	30 X 71 mm	173.24
TCM-234F8-49801	P-U-4	45 X 55 mm	103.94
TCM-23650-59801	P-U-1	35 X 45 mm	119.58
TCM-23650-59802	P-U-1	35 X 45 mm	93.11
TCM-23650-89802	P-U-1	40 X 50 mm	115.75
TCM-23650-89803	P-N-4	40 X 50 mm	99.38
TCM-23650-89822	P-U-1	75 X 90 mm	180.28
TCM-23650-89841	P-U-1	40 mm	79.05

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TCM-23654-52201	I-U-10	25 X 60 mm	\$71.93
TCM-23658-59811	P-U-5	32 X 70 mm	177.33
TCM-23658-59813	P-U-5	32 X 70 mm	177.33
TCM-23678-59801	P-U-5	32 X 71 mm	161.24
TCM-24239-49801	P-N-4	38 X 45 mm	125.55
TCM-24239-49804	P-U-1	35 X 45 mm	123.48
TCM-24240-89801	P-U-1	70 X 80 mm	104.24
TCM-24248-59802	P-U-5	30 X 63 mm	228.91
TCM-24248-59807	P-U-5	30 X 63 mm	157.71
TCM-24328-59804	P-U-5	50 X 100 mm	261.09
TCM-24450-89803	P-U-1	85 mm	117.39
TCM-24450-89823	P-N-4	45 X 55 mm	117.91
TCM-24458-59812	P-U-10	32 X 71 mm	251.73
TCM-24469-49803	P-U-4	45 X 55 mm	81.45
TCM-24600-89902	P-U-1	50 X 60 mm	231.45
TCM-24608-59803	P-U-10	50 X 90 mm	230.68
TCM-25594-59802	P-U-10	22 X 50 mm	99.17
TCM-25954-59802	P-U-10	25 X 60 mm	71.56
TCM-26094-17161	VALVE KIT		15.19
TCM-27248-49801	P-N-4	50 X 80 mm	144.71
TCM-27390-59801	P-U-10	70 X 80 mm	207.93
TCM-27390-59902	P-U-1	32 mm Rod Kit	167.15
TCM-27410-89811	P-U-1	75 mm	96.54
TCM-277H8-59802	P-U-5	30 X 63 mm	158.01
TCM-27830-89802	P-U-10	85 X 100 mm	254.84
TCM-510F0-59801	P-U-1	32 X 45 mm	143.09
TCM-510F2-40601	P-U-10	40 X 70 mm	371.41
TCM-514A2-40552	P-U-10	50 X 80 mm	388.96
TCM-514A2-40554	P-U-10	50 X 80 mm	305.76
TCM-514A2-42631	VALVE KIT		15.50
TCM-52486-09811	VALVE KIT		36.26

PISTON SEALS FOR TCM EQUIPMENT

Part Number	Bore Diam.	List Price
TCM-24458-50311	71 mm	\$35.86

TOYOTA LIFT TRUCKS

TOYOTA

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TOY-04431-30091-71	P-U-5	60 X 90 mm	\$363.56
TOY-04433-10010-71	P-U-10	40 X 60 mm	150.94
TOY-04433-10020-71	P-U-10	40 X 60 mm	94.57
TOY-04433-10101-71	I-U-10	40 X 60 mm	99.28
TOY-04433-20011-71	I-U-10	50 X 75 mm	292.98
TOY-04433-20030-71	I-U-10	50 X 80 mm	251.18
TOY-04433-U1010-71	I-U-10	40 mm X 2-3/8 in	75.16
TOY-04433-U2040-71	I-U-10	50 mm X 3	71.40
TOY-04433-U2050-71	I-U-10	50 mm X 3	279.89
TOY-04433-U3010-71	I-U-10	50 mm X 3-1/8 in	279.89
TOY-04451-10070-71	P-V-12	22 X 40 mm	105.21
TOY-04451-10090-71	P-V-12	22 X 40 mm	116.42
TOY-04451-10220-71	VALVE KIT		23.64
TOY-04451-10120-71	P-U-12	22 X 45 mm	108.56
TOY-04451-20100-71	P-V-12	22 X 50 mm	116.86
TOY-04451-20101-71	P-U-12	22 X 50 mm	124.60
TOY-04451-20170-71	P-V-12	22 X 50 mm	118.18
TOY-04451-20171-71	P-U-12	22 X 50 mm	118.65
TOY-04455-U2010-71	OVERHAUL STEER KIT		112.11
TOY-04456-10020-71	P-U-10	22 X 50 mm	77.06
TOY-04456-10031-71	P-U-5	30 X 55 mm	230.12
TOY-04456-10050-71	P-U-12	22 X 45 mm	98.13
TOY-04456-20010-71	P-U-12	22 X 40 mm	112.29
TOY-04456-20020-71	P-U-12	22 X 40 mm	105.42
TOY-04456-20030-71	N-U-12	22 X 50 mm	89.18
TOY-04456-20060-71	I-U-12	22 X 50 mm	51.20
TOY-04456-30010-71	P-U-1	25 X 55 mm	82.52
TOY-04456-30011-71	P-U-12	25 X 55 mm	110.91
TOY-04651-10060-71	P-N-4	50 X 80 mm	101.48
TOY-04651-10132-71	P-U-5	30 X 80 mm	135.70
TOY-04651-10330-71	P-U-5	30 X 70 mm	106.93
TOY-04651-10333-71	P-U-5	30 X 70 mm	157.83
TOY-04651-10334-71	P-U-5	30 X 70 mm	157.83
TOY-04651-10652-71	P-U-4	50 X 65 mm	161.99
TOY-04651-10662-71	P-U-4	50 X 65 mm	161.99
TOY-04651-10671-71	P-U-1	70 mm Rod Kit	137.15
TOY-04651-10870-71	P-U-1	70 X 80 mm	156.37
TOY-04651-10871-71	P-U-1	70 mm Rod Kit	137.15
TOY-04651-10882-71	P-U-5	30 X 70 mm	157.83
TOY-04651-10892-71	P-U-5	30 X 70 mm	157.83
TOY-04651-11032-71	P-U-1	35 X 50 mm	96.06
TOY-04651-11061-71	P-U-4	40 X 50 mm	112.72
TOY-04651-11250-71	P-U-1	75 X 90 mm	231.89
TOY-04651-11261-71	P-U-1	35 X 50 mm	95.51
TOY-04651-11270-71	P-U-1	75 X 90 mm	234.17
TOY-04651-11271-71	P-U-1	75 mm Rod Kit	147.12
TOY-04651-11290-71	P-U-4	40 X 50 mm	112.10
TOY-04651-11291-71	P-U-4	40 X 50 mm	111.40
TOY-04651-11300-71	N-U-4	50 X 65 mm	120.32
TOY-04651-11390-71	P-U-4	40 X 50 mm	120.64
TOY-04651-20132-71	P-U-1	60 X 70 mm	169.57
TOY-04651-20133-71	P-U-4	60 X 70 mm	188.24
TOY-04651-20141-71	P-U-4	50 X 70 mm	138.47
TOY-04651-20142-71	P-U-4	50 X 70 mm	157.66
TOY-04651-20151-71	P-V-5	30 X 70 mm	248.73
TOY-04651-20182-71	P-U-4	60 X 75 mm	163.63
TOY-04651-20184-71	P-U-1	75 X 90 mm	168.44
TOY-04651-20185-71	P-U-1	75 X 90 mm	168.44

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TOY-04651-20186-71	P-U-1	75 X 90 mm	\$234.17
TOY-04651-20260-71	P-U-1	50 X 70 mm	110.94
TOY-04651-20262-71	P-U-1	50 X 70 mm	140.15
TOY-04651-20262-71	P-U-1	50 X 70 mm	140.15
TOY-04651-20390-71	P-U-4	50 X 70 mm	166.76
TOY-04651-20400-71	P-U-4	60 X 70 mm	182.93
TOY-04651-20421-71	P-U-4	50 X 70 mm	159.49
TOY-04651-20441-71	P-U-5	30 X 70 mm	99.34
TOY-04651-20442-71	P-U-5	30 X 70 mm	157.83
TOY-04651-20841-71	P-U-1	75 X 90 mm	234.53
TOY-04651-20970-71	P-U-1	75 X 90 mm	234.17
TOY-04651-20971-71	P-U-1	75 mm Rod Kit	147.46
TOY-04651-20980-71	P-U-4	40 X 50 mm	91.73
TOY-04651-20992-71	P-U-1	35 X 50 mm	95.51
TOY-04651-21150-71	P-U-4	40 X 50 mm	92.41
TOY-04651-21151-71	P-U-4	40 X 50 mm	112.10
TOY-04651-21290-71	P-U-4	40 X 50 mm	92.41
TOY-04651-21310-71	P-U-1	35 X 50 mm	94.86
TOY-04651-21340-71	P-U-1	35 X 50 mm	95.51
TOY-04651-21350-71	P-U-4	40 X 50 mm	119.01
TOY-04651-30111-71	P-N-4	60 X 100 mm	128.76
TOY-04651-30170-71	P-U-5	40 X 100 mm	152.88
TOY-04651-30181-71	I-U-1	30 X 90 mm	145.47
TOY-04651-30211-71	P-N-4	60 X 80 mm	151.20
TOY-04651-30212-71	P-U-4	60 X 80 mm	157.83
TOY-04651-30561-71	P-U-4	60 X 80 mm	171.91
TOY-04651-30841-71	P-U-1	90 X 105 mm	211.37
TOY-04651-30842-71	P-U-1	90 X 105 mm	285.76
TOY-04651-30911-71	P-U-1	60 X 80 mm	150.88
TOY-04651-30920-71	P-U-4	60 X 80 mm	174.87
TOY-04651-30980-71	P-U-4	60 X 80 mm	121.32
TOY-04651-30991-71	P-U-5	40 X 100 mm	111.51
TOY-04651-31170-71	P-U-1	55 X 65 mm	133.68
TOY-04651-31180-71	P-U-4	50 X 65 mm	154.71
TOY-04651-31181-71	P-U-4	50 X 65 mm	141.16
TOY-04651-31210-71	P-U-1	90 X 105 mm	288.08
TOY-04651-31211-71	P-U-1	85 X 105 mm	346.47
TOY-04651-31220-71	P-U-1	40 X 60 mm	91.90
TOY-04651-31230-71	P-U-1	40 X 60 mm	92.56
TOY-04651-31240-71	P-U-1	55 X 65 mm	135.85
TOY-04651-31250-71	P-U-1	55 X 65 mm	136.49
TOY-04651-31280-71	P-U-4	50 X 65 mm	152.33
TOY-04651-31281-71	P-U-4	50 X 65 mm	138.82
TOY-04651-31282-71	P-U-4	50 X 65 mm	117.01
TOY-04651-31290-71	P-U-4	60 X 90 mm	171.56
TOY-04651-31302-71	P-U-1	95 mm Rod Kit	176.04
TOY-04651-31311-71	P-U-1	105 mm Rod Kit	177.99
TOY-04651-31410-71	P-U-1	45 X 65 mm	115.85
TOY-04651-31420-71	P-U-1	45 X 65 mm	118.18
TOY-04651-31430-71	P-U-1	55 X 65 mm	137.15
TOY-04651-31440-71	P-U-1	55 X 65 mm	132.03
TOY-04651-31450-71	P-U-4	70 X 90 mm	215.67
TOY-04651-31500-71	P-U-4	45 X 55 mm	119.18
TOY-04651-31510-71	P-U-4	45 X 55 mm	118.49
TOY-04651-31520-71	P-U-4	45 X 55 mm	120.82
TOY-04651-31530-71	P-U-4	45 X 55 mm	116.54
TOY-04651-31800-71	P-U-4	55 X 80 mm	139.57
TOY-04651-31810-71	P-U-4	55 X 80 mm	130.26

TOYOTA LIFT TRUCKS

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TOY-04651-31820-71	P-U-5	70 X 120 mm	\$343.84
TOY-04651-31830-71	P-U-5	70 X 110 mm	106.68
TOY-04652-10020-71	P-U-1	70 X 80 mm	220.12
TOY-04652-10030-71	P-U-1	70 X 80 mm	220.12
TOY-04652-10170-71	P-U-1	70 mm Rod Kit	114.39
TOY-04652-10191-71	P-U-1	70 X 85 mm	80.14
TOY-04652-10300-71	P-U-10	50 X 70 mm	146.84
TOY-04652-20031-71	P-U-1	75 X 90 mm	179.01
TOY-04652-20040-71	P-U-1	75 X 90 mm	167.15
TOY-04652-20080-71	P-U-10	50 X 75 mm	151.17
TOY-04652-30010-71	P-U-1	90 X 105 mm	213.86
TOY-04652-30011-71	P-U-1	85 X 105 mm	209.54
TOY-04652-30020-71	P-U-1	40 X 60 mm	92.56
TOY-04652-30030-71	P-U-1	40 X 60 mm	91.90
TOY-04652-30040-71	P-U-1	50 X 70 mm	122.61
TOY-04652-30050-71	P-U-1	50 X 70 mm	124.99
TOY-04652-30131-71	P-U-1	85 X 105 mm	209.09
TOY-04652-30132-71	P-U-1	85 X 105 mm	121.25
TOY-04652-30150-71	P-U-1	85 X 105 mm	196.99
TOY-04652-U1020-71	I-U-4	2 X 2-3/4	198.94
TOY-04652-U2010-71	I-U-4	50 X 75 mm	175.77
TOY-04652-U2020-71	I-U-4	2" X 75 mm	154.07
TOY-04653-10020-71	P-U-4	35 X 45 mm	107.74
TOY-04653-10030-71	P-U-4	35 X 45 mm	106.58
TOY-04653-10040-71	P-U-4	35 X 45 mm	107.74
TOY-04653-10050-71	P-U-4	35 X 45 mm	107.09
TOY-04653-10060-71	P-U-1	35 X 50 mm	97.53
TOY-04653-10170-71	P-U-1	35 mm	56.45
TOY-04653-10500-71	P-U-1	35 X 45 mm	46.25
TOY-04653-10530-71	P-U-4	35 X 45 mm	41.28
TOY-04653-20071-71	P-U-4	40 X 50 mm	120.64
TOY-04653-20081-71	P-U-4	40 X 50 mm	121.45
TOY-04653-20090-71	P-U-1	35 X 50 mm	103.97
TOY-04653-20100-71	P-U-1	35 mm Rod Kit	90.39
TOY-04653-20110-71	P-U-1	35 X 50 mm	69.19
TOY-04653-20130-71	P-U-1	40 X 50 mm	92.99
TOY-04653-20230-71	P-U-4	50 X 63 mm	68.54
TOY-04653-30010-71	P-U-1	55 X 65 mm	134.37
TOY-04653-30020-71	P-U-1	55 X 65 mm	134.37
TOY-04653-30030-71	P-U-1	115 mm Rod Kit	265.03
TOY-04653-30050-71	P-U-5	45 X 55 mm	117.01
TOY-04653-30060-71	P-U-4	45 X 55 mm	120.13
TOY-04653-30111-71	P-U-1	90 mm	64.99
TOY-04653-30211-71	P-U-4	45 X 55 mm	116.03
TOY-04653-30221-71	P-U-4	45 X 55 mm	126.60
TOY-04653-30230-71	P-U-1	40 X 55 mm	116.54
TOY-04653-30231-71	P-U-1	40 X 55 mm	73.37
TOY-04653-30240-71	P-U-1	40 X 55 mm	105.42
TOY-04653-30310-71	P-U-3	50 X 70 mm	61.77
TOY-04653-U1010-71	I-U-1	32 mm X 1-3/4	49.52
TOY-04653-U1011-71	I-U-1	32 mm X 1-3/4	117.64
TOY-04653-U2010-71	I-U-4	1-3/8 X 2	83.17
TOY-04653-U3010-71	I-U-1	40 mm X 2-1/8	49.52
TOY-04654-10020-71	P-U-4	35 X 45 mm	107.93
TOY-04654-10030-71	P-U-4	35 X 45 mm	107.09
TOY-04654-20020-71	P-U-1	40 X 50 mm	92.99
TOY-04654-30020-71	P-U-4	45 X 55 mm	168.03
TOY-04654-30030-71	P-U-4	45 X 55 mm	164.60

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
TOY-04654-U1010-70	I-U-4	1-3/8 X 1-3/4	\$52.46
TOY-04654-U1010-71	I-U-1	1-3/8 X 1-3/4	52.46
TOY-04654-U2010-71	I-U-4	42 X 50 mm	180.26
TOY-04654-U3010-71	I-U-4	45 X 55 mm	87.78
TOY-04655-20030-71	P-U-5	30 X 70 mm	141.65
TOY-04655-20080-71	P-U-5	30 X 70 mm	95.43
TOY-04655-20090-71	I-U-13	30 X 70 mm	204.07
TOY-04655-30040-71	P-U-5	40 X 90 mm	166.90
TOY-04655-30041-71	P-U-5	40 X 90 mm	180.61
TOY-04655-30300-71	P-U-5	45 X 100 mm	126.09
TOY-04655-U1010-71	I-U-10	30 X 70 mm	243.44
TOY-04655-U2010-71	I-U-10	1-1/4 X 2-3/4	129.79
TOY-04655-U3010-71	I-U-10	1-1/4 X 3	145.91
TOY-04671-20380-71	VALVE KIT		32.29
TOY-04671-20390-71	VALVE KIT		75.14
TOY-04676-20370-71	VALVE KIT		29.25
TOY-04676-20380-71	VALVE KIT		35.15
TOY-04676-20421-71	VALVE KIT		21.83
TOY-04676-20431-71	VALVE KIT		24.83
TOY-04676-20441-71	VALVE KIT		24.13
TOY-04676-20491-71	VALVE KIT		20.74
TOY-04676-20501-71	VALVE KIT		21.83
TOY-04676-20511-71	VALVE KIT		23.10
TOY-04676-20521-71	VALVE KIT		25.11
TOY-04676-20560-71	VALVE KIT		23.79
TOY-04676-20570-71	VALVE KIT		46.49
TOY-04676-20580-71	VALVE KIT		23.10
TOY-04676-20590-71	VALVE KIT		20.29
TOY-04676-20600-71	VALVE KIT		27.71
TOY-04676-20680-71	VALVE KIT		17.18
TOY-04676-20690-71	VALVE KIT		27.77
TOY-04676-20700-71	VALVE KIT		24.81
TOY-04676-20722-71	VALVE KIT		20.55
TOY-04676-20742-71	O-RING KIT		25.65
TOY-04676-30311-71	VALVE KIT		18.97
TOY-04676-30312-71	VALVE KIT		20.29
TOY-04676-30313-71	VALVE KIT		17.02
TOY-04676-30331-71	VALVE KIT		25.11
TOY-04676-30332-71	VALVE KIT		20.57
TOY-04676-30341-71	VALVE KIT		67.68
TOY-04676-30342-71	VALVE KIT		30.76
TOY-04676-30620-71	VALVE KIT		23.78
TOY-04676-30920-71	VALVE KIT		23.36
TOY-04676-30930-71	VALVE KIT		21.62
TOY-04676-30940-71	VALVE KIT		29.28
TOY-04676-30950-71	VALVE KIT		29.39
TOY-04676-30970-71	VALVE KIT		18.99
TOY-04676-30980-71	VALVE KIT		15.66
TOY-04676-30990-71	VALVE KIT		37.57
TOY-04676-31000-71	VALVE KIT		21.39
TOY-04676-31010-71	VALVE KIT		24.87
TOY-04676-31020-71	VALVE KIT		33.52
TOY-04676-31161-71	VALVE KIT		15.14
TOY-04676-31171-71	O-RING KIT		20.55
TOY-04676-U2010-71	VALVE KIT		40.04

TOYOTA

REPLACEMENT PARTS FOR TOYOTA EQUIPMENT

NOTE: Toyota part numbers are used as a reference only. We do not imply that these kits are original REPLACEMENT PARTS.

O-RINGS

Part Number	Min Pkg Qty	List Price
TOY-65592-U2200-71	20	\$0.30

U-SEALS

Part Number	Rod Dia.	List Price
TOY-77167-20100-71	80 mm	\$41.92

WIPERS

Part Number	Rod Dia.	List Price
TOY-65575-31620-71	40 mm	\$28.17

PISTON BUSHINGS

Part Number	Bore Dia.	List Price
TOY-65254-14180-71	90 mm	\$133.13

WHITE LIFT TRUCK

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
WLT-20-7300283	I-U-4	1-3/4 X 4	\$91.71
WLT-20-7302715	I-U-10	1-1/2 X 3-1/2	51.12

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
WLT-30-3305457	P-U-10	1-1/2 X 3-1/2	\$51.04

YALE LIFT TRUCKS

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
YA-066414600	4-1/16 Rod Wiper		\$23.44
YA-5001689-04	4-1/16 ID Vee Set		62.08
YA-502566003	I-N-8	2-1/2 X 3-1/2	180.68
YA-502566004	I-N-8	2 X 3-1/2	172.64
YA-503130000	P-V-4	2 X 3-1/4	87.60
YA-504236229	P-U-10	2-1/8 X 2-3/4	104.59
YA-504236245	P-U-10	1-3/8 X 3	56.53
YA-504853000	I-U-5	1-1/4 X 3	128.66
YA-504857000	I-N-8	2-1/4 X 4	76.74
YA-5048620	I-N-8	1-3/4 X 2-1/2	36.63
YA-505136003	I-N-8	2-1/2 X 3-1/2	74.13
YA-505136004	I-N-8	2 X 3-1/2	61.96
YA-505136007	I-U-1	1-5/8 X 2-1/4	29.23
YA-505136008	I-U-1	1-5/16 X 2-1/4	28.62
YA-505136009	I-U-1	3-1/4" Rod	43.62
YA-505136010	I-U-1	1-7/8 X 2-1/2	27.50
YA-505136012	I-U-11	1-7/8 X 2-1/4	86.08
YA-505136013	I-U-1	2-5/8 Rod Kit	31.38
YA-505136014	I-U-1	3-3/4 Rod Kit	41.19
YA-505136015	I-U-10	2-5/8 X 3	131.03
YA-505136027	I-U-1	1-5/8 X 2	35.83
YA-505136028	i-u-4	1-3/8 x 2	117.53
YA-505136031	I-U-1	3 X 3-3/4	44.86
YA-505136035	I-U-4	1-3/8 X 2	73.36
YA-505136036	I-U-4	1-5/8 X 2	61.80
YA-505136037	I-U-12	1-3/8 X 2	76.13
YA-505136040	I-U-4	1-5/8 X 1-7/8	68.66
YA-505136059	I-U-1	1-1/4 X 1-3/4	35.78
YA-505142000	I-V-1	3-3/8, 4-1/16 Stages	145.62
YA-505143000	I-V-1	2-1/2, 3 Stages	104.05

Kit Number	Code (Pg. xiv)	Rod X Bore Size	List Price
YA-505163001	I-U-1	1	\$22.93
YA-506787001	I-N-8	2-3/4 X 4-1/2	282.31
YA-506788001	I-N-8	2-3/4 X 4-1/2	123.16
YA-507016002	I-V-5	1-1/2 x 4	102.50
YA-509753000	I-V-12	1 X 2	48.24
YA-510078000	I-U-5	1 X 2-1/2	63.83
YA-510398000	I-V-1	2-1/4, 3, 3-3/4 Stages	219.85
YA-510659001	I-V-2	1-1/4 X 3-1/2	57.74
YA-512944003	I-U-10	1 X 2	31.16
YA-513355800	O-ring Kit		6.11
YA-514527000	I-V-1	3, 3-3/4 Stages	136.14
YA-515229000	I-U-4	2-1/4 X 3-3/4	66.58
YA-516149002	I-U-11	1 X 2	42.02
YA-516149005	I-U-11	1 X 2	33.57
YA-516149006	I-U-11	1-1/8 X 2-1/2	41.47
YA-5178128-17	Shaft Kit		2.81
YA-518617001	I-V-10	1-1/4 X 2-1/2	103.92
YA-519132600	I-U-5	1-3/4 X 3-1/2	72.84
YA-519675801	O-RING KIT		11.06
YA-580026957	P-U-10	2-1/8 X 2-3/4	50.59
YA-580060036	P-U-10	2-1/8 X 2-3/4	77.50
YA-900299851	65 mm, 80 mm	2 Stage	76.55
YA-900847850	P-U-10	25 X 60 mm	69.01
YA-900879850	I-U-3	35 X 80 mm	28.63
YA-901115850	P-U-1	32 mm Rod Kit	65.03
YA-9012238-07	P-U-10	40 X 70 mm	106.19
YA-9017888-10	P-U-10	35 X 70 mm	83.55
YA-9019058-52	P-U-10	35 X 65 mm	128.26
YA-9022018-50	Shaft Kit		18.81

HYDRAULIC CYLINDER JACK KITS - ENERPAC

Kit Number	Code (Pg. xxii)	Rod X Bore Size	List Price
EPC-RC1006K	I-N-4	5-1/8	\$125.24
EPC-RC102K	I-N-4	1-11/16	46.13
EPC-RC15K1	I-N-4	2	71.87
EPC-RC2510K	I-N-4	2-1/2	72.42
EPC-RC308K	I-N-4	2-7/8	110.51
EPC-RC506K	I-N-4	3-3/4	82.05
EPC-RC50K1	N-N-4	1-1/8	25.97
EPC-RC53K	I-N-4	1-1/8	34.69
EPC-RC756K	I-N-4	4-1/2	192.42
EPC-RCH121K1	N-U-4	1 X 1-7/8	61.55

Repair Accessories

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Scan for:
Repair Accessories
on website

PLASTIC CAP PLUGS

CAP PLUG APPLICATION CHART

CAP- 00	NPT		INCH THREAD		METRIC THREAD	
	CAPS	PLUGS	CAPS	PLUGS	CAPS	PLUGS
0				10/32	M2,M2.5	M5
1				1/4	M3,M3.5	M6
1-X				5/16	M5	M8x1
2			15/64	3/8	M6	M10x1.25
2-X		1/8			M7	
3				7/16	M8x1	M12
3-X			3/8			M12x1.25
4	1/8	1/4		1/2	M10x1.25	M14
4-X			7/16			M14x1.5
5			1/2	9/16		
5-X					M12x1.25	M16
6	1/4			5/8		
6-X		3/8	9/16			M18
7			5/8		M14x1.5	M18x1.5
7-X						
8				3/4		M20
8-X	3/8				M16x1.5	M20x1.5
9		1/2				M22
9-X			3/4			M22x1.5
10				7/8	M18x1.5	M24
11	1/2					M24x2
11-X			7/8		M20x1.5	
12		3/4				
12-X				1-1/16	M22x1.5	M27x2
13	3/4				M24x2	
13-X			1-1/16			M30x2
14		1			M27x2	M33
17		1-1/4			M36x3	
17-S				1-5/8		
18	1-1/4		1-5/8	1-3/4	M39x3	
19		1-1/2		1-7/8		
20	1-1/2		1-7/8			
20-S						
21						
220						
230			2-1/4			
24-S		2				
240	2					
250			2-1/2			

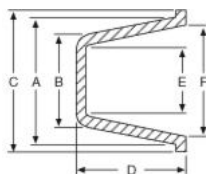


This style cap plug is equipped with a handy fold-down pull ring.

Tapered Caps & Plugs With Pull Ring

Part Number	NPT Port Size	OD Size Tapered	HT	Min Std Pkg	List Price
CAP-PR-9	1/8	.337/.375	1/4	50	\$0.19
CAP-PR-12	1/4	.436/.475	1/4	50	0.55
CAP-PR-17	3/8	.552/.615	3/8	50	0.32
CAP-PR-22	1/2	.668/.767	1/2	40	0.35
CAP-PR-27X	3/4	.878/.977	1/2	40	0.39
CAP-PR-32	1	1.113/1.212	1/2	25	0.44
CAP-PR-39	1-1/4	1.505/1.580	1/2	25	0.57
CAP-PR-43	1-1/2	1.780/1.860	1/2	20	0.62
CAP-PR-50	2	2.226/2.258	1/2	20	0.78

PLASTIC CAP PLUGS



**Tapered Caps & Plugs
For Misc. Applications**

Part Number	A	B	C	D	E	F	List Price
CAP-00	.180	.115	5/16	13/32	.051	.118	\$0.39
CAP-0	.240	.175	3/8	3/8	.109	.175	0.59
CAP-0-X	0.275	0.209	7/16	3/8	0.150	0.209	0.12
CAP-1	.302	.240	15/32	3/8	.175	.240	0.43
CAP-1-X	.335	.265	15/32	3/8	.240	.275	0.43
CAP-2	.365	.300	17/32	3/8	.234	.301	0.43
CAP-3	.428	.360	19/32	3/8	.299	.365	0.36
CAP-3-X	.460	.390	5/8	3/8	.325	.396	0.43
CAP-4-X	.512	.447	5/8	3/8	.385	.448	0.07
CAP-5	.547	.490	23/32	1/2	.409	.485	0.07
CAP-5-X	.568	.500	3/4	7/16	.435	.503	0.08
CAP-6	.620	.531	3/4	1/2	.468	.555	0.07
CAP-6A-X	0.576	0.500	0.720	0.470	0.440	0.516	0.15
CAP-7	.675	.590	7/8	17/32	.520	.605	0.08
CAP-7-X	.695	.610	27/32	1/5	.549	.634	0.12
CAP-8	.728	.641	7/8	1/2	.575	.665	0.08
CAP-8-X	.754	.675	7/8	5/8	.615	.690	0.08
CAP-9-X	.925	.725	1	3/4	.662	.760	0.08
CAP-10	.848	.750	1-1/32	5/8	.686	.785	0.08
CAP-11	.910	.802	1-3/32	3/4	.740	.846	0.32
CAP-11-X	.931	.820	1-1/8	5/8	.754	.868	0.08
CAP-12A-X	0.973	0.856	1-1/8	3/4	0.768	0.906	0.24
CAP-13	1.091	.966	1-1/4	3/4	.902	1.025	0.32
CAP-13-X	1.145	1.002	1-5/16	3/4	.938	1.079	0.12
CAP-14-X	1.285	1.180	1-7/16	3/4	1.105	1.215	1.00
CAP-16A-X	1.312	1.276	1.380	0.560	1.155	1.190	0.35
CAP-17A-X	1.507	1.344	1-3/4	15/16	1.282	1.450	0.38
CAP-18	1.680	1.560	1-7/8	3/4	1.497	1.620	0.27
CAP-20	1.958	1.806	2.125	1	1.745	1.893	1.08
CAP-20-X	2.310	1.940	2.470	0.880	1.875	2.255	0.65
CAP-21	2.078	1.902	2-1/4	1	1.839	2.015	0.44
CAP-38	1.045	.980	1-1/4	1/2	.916	.984	0.43
CAP-220	2.132	1.980	2-1/4	1	1.915	2.068	0.44
CAP-230	2.330	2.156	2-5/8	1	2.094	2.264	1.21
CAP-240	2.465	2.300	2-5/8	1	2.235	2.400	0.57
CAP-250	2.605	2.395	2-5/8	1	2.331	2.541	0.59

Tapered Caps & Plugs For NPT Style Ports

Part Number	NPT Port Size	OD Size Tapered	HT	Min Std Pkg	List Price
CAP-2-X	1/8	.330/.396	3/8	50	\$0.12
CAP-4	1/4	.419/.485	3/8	50	0.12
CAP-6-X	3/8	.550/.631	7/16	50	0.19
CAP-9	1/2	.690/.788	9/16	50	0.19
CAP-12	3/4	.870/.975	5/8	120	0.08
CAP-12-X	3/4	.915/1.040	11/16	25	0.35
CAP-14	1	1.094/1.215	3/4	25	0.35
CAP-15	1	1.225/1.355	3/4	3	0.61
CAP-15-X	1	1.235/1.350	3/4	25	0.39
CAP-17	1-1/4	1.450/1.600	3/4	60	0.19
CAP-17-S	1-1/4	1.513/1.600	1/2	25	1.47
CAP-19	1-1/2	1.735/1.870	3/4	25	0.61
CAP-20-S	1-1/2	1.781/1.805	3/8	25	0.39
CAP-24-S	2	2.230/2.260	1/2	20	0.48

MCAP Tapered Caps & Plugs For Misc. Applications



Part Number	A mm	B mm	C mm	D mm	E mm	F mm	List Price
CAP-M10X1	13.00	11.35	15.88	10.32	9.78	11.38	\$0.07
CAP-M12X1	14.43	12.70	19.05	11.11	11.05	12.78	0.08
CAP-M12X1.5	14.63	12.70	18.29	11.94	11.18	13.11	0.15
CAP-M14X1.5	17.15	14.99	22.23	13.49	13.21	15.37	0.08
CAP-M16X1.5	19.15	17.15	22.23	15.88	15.62	17.53	0.08
CAP-M18X1.5	21.54	19.05	26.19	15.88	17.42	19.74	0.08
CAP-M20X1.5	24.71	21.74	28.58	19.05	19.51	23.01	0.24
CAP-M22X1.5	26.42	22.73	29.37	19.05	21.13	24.77	0.35
CAP-M25X1.5	29.08	25.45	33.34	19.05	23.83	27.41	0.12
CAP-M26X1.5	29.08	25.45	33.34	19.05	23.83	27.41	0.12
CAP-M27	31.12	29.19	38.50	19.05	26.37	29.97	0.35
CAP-M28X1.5	32.81	29.59	36.10	19.05	27.69	30.61	1.00
CAP-M30X2	33.32	32.41	35.05	14.22	29.34	30.23	0.35
CAP-M35	38.53	34.14	44.45	23.81	32.56	36.83	0.38
CAP-M39	42.49	39.62	47.63	19.05	38.02	41.15	0.27
CAP-M4	6.99	5.31	11.11	9.53	3.81	5.31	0.12
CAP-M42X2	44.45	40.79	49.21	19.05	39.83	42.80	0.89
CAP-M45	49.73	45.87	53.98	25.40	44.32	48.08	1.08
CAP-M48	58.67	49.28	62.74	22.35	47.63	57.28	0.65
CAP-M5	7.67	6.1	11.91	9.53	4.45	6.1	0.43
CAP-M6	8.51	6.73	11.91	9.53	5.18	6.99	0.43
CAP-M8X1	10.87	9.14	15.08	9.53	7.59	9.27	0.36

PLASTIC CAP PLUGS



Female Threaded Cap Plugs for J.I.C. Fittings

Part Number	Std Thread Size	O.D. Size Tube	Dash Size	Min Std Pkg	List Price
CAP-G-2	7/16-20	1/4	#4		
CAP-G-4	1/2-14	3/8	#6	20	0.86
CAP-G-22	1-1/16-12	3/4	#12	20	0.48
CAP-G-25	1-3/16-12	7/8	#14	20	0.57
CAP-G-27	1-5/16-12	1	#16	20	0.57

Caplug[®] Caplug[®]



Flat Face Fitting Caps

Part Number	Tube Size OD	Thread Size	Min Std Pkg	List Price
	1/4	9/16-18	25	\$0.55
	3/8	11/16-16	25	0.55
	1/2	13/16-16	25	0.58
	5/8	1-14	20	0.69
CAP-PDF-120	3/4	1-3/16-12	20	3.18
CAP-PDF-160	1	1-7/16-12	10	

GO



O-Ring Face Fitting Caps

These low density polyethylene caps are designed to fit female o-ring face seals.

Part Number	Thread Size	Min Std Pkg	List Price
CAP-OR-4	9/16-18	25	\$0.36
CAP-OR-6	11/16-16	25	0.40
CAP-OR-8	13/16-16	25	0.46
CAP-OR-10	1-14	25	0.57
CAP-OR-12	1-3/16-12	25	0.59
CAP-OR-16	1-7/16-12	15	1.36
CAP-OR-20	1-11/16-12	10	2.26

Convert to mm

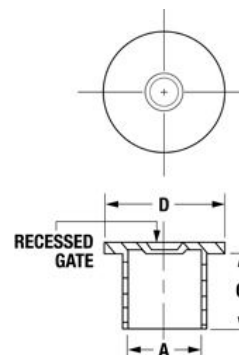


Unlike tear-tab closures that can only be used once, the CAP-PO series is designed to be reused. Specifically designed to protect straight threads with or without o-rings, this unique design is also ideal for use on a variety of thread forms and non-threaded fittings.

Convert to mm

Straight Threaded Cap Plugs

Part Number	Min Std Pkg	To Cap Thread size	A	C	D	List Price
CAP-PO-20	25	7/16"	0.428	0.47	0.69	\$0.59
CAP-PO-30	25	1/2"	0.49	0.47	0.75	0.82
CAP-PO-40	25	9/16"	0.55	0.50	0.81	0.86
CAP-PO-50	25	11/16"	0.676	0.50	0.94	0.94
CAP-PO-55	25	-	0.721	0.67	1.00	1.00
CAP-PO-60	25	3/4"	0.738	0.67	1.00	1.00
CAP-PO-70	25	13/16"	0.802	0.56	1.06	1.04
CAP-PO-80	25	7/8"	0.864	0.66	1.12	1.06
CAP-PO-90	25	1.00"	0.99	0.66	1.25	1.12
CAP-PO-100	15	1-1/16"	1.051	0.75	1.31	1.18
CAP-PO-110	15	1-3/16"	1.175	0.75	1.44	1.44
CAP-PO-120	15	1-5/16"	1.298	0.75	1.56	1.63
CAP-PO-130	15	1-7/16"	1.426	0.75	1.69	2.00
CAP-PO-140	10	1-5/8"	1.12	0.85	1.88	2.22



**Cap Plug Assortment Kits
Also Available -
See the Kit & Tool Section**

PLASTIC CAP PLUGS



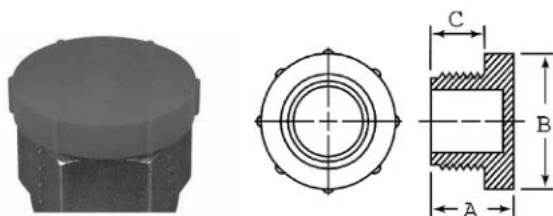
Male Threaded Pipe Plugs (Sq. Top)

Part Number	NPT Port Size	Thread Size	Min Std Pkg	List Price
CAP-P-18	1/8	0.364	25	\$0.19
CAP-P-28	1/4	0.477	25	0.35
CAP-P-38	3/8	0.612	25	0.39
CAP-P-48	1/2	0.758	25	0.39
CAP-P-68-H	3/4	0.968	25	0.44
CAP-P-88-H	1	1.214	20	1.76
CAP-TP-13	1-1/4	1.557	5	3.07
CAP-TP-15	1-1/2	1.796	5	3.07



Male Threaded Cap Plugs for Flared J.I.C. Fittings

Part Number	Std Thread Size	OD Size Tube	Dash Size	Min Std Pkg	List Price
CAP-PD-40	7/16-20	1/4	#4	25	\$0.58
CAP-PD-50	1/2-20	5/16	#5	25	0.58
CAP-PD-60	9/16-18	3/8	#6	25	0.35
CAP-PD-80	3/4-16	1/2	#8	25	0.35
CAP-PD-100	7/8-14	5/8	#10	25	0.39
CAP-PD-120	1-1/16-12	3/4	#12	25	0.39
CAP-PD-140	1-3/16-12	7/8	#14	20	0.59
CAP-PD-160	1-5/16-12	1	#16	20	0.59
CAP-PD-200	1-5/8-12	1-1/4	#20	15	0.74
CAP-PD-220	1-3/4-12	1-3/8	#22	10	1.87
CAP-PD-240	1-7/8-12	1-1/2	#24	10	1.68



Miscellaneous - MCAP- TP

Part Number	To Fit Metric Thread Size	A		B		C		Min Std Pkg	List Price
		in	mm	in	mm	in	mm		
MCAP-TP-M8X1	M8 x 1	0.562	14.27	0.484	12.29	0.374	9.50	10	\$1.02
MCAP-TP-M10X1	M10 x 1	0.574	14.58	0.602	15.29	0.409	10.39	10	1.41
MCAP-TP-M12X1	M12 x 1	0.657	16.69	0.728	18.49	0.421	10.69	10	1.51
MCAP-TP-M12X1.5	M12 x 1.5	0.641	16.28	0.657	16.69	0.342	8.69	10	1.75
MCAP-TP-M14X1.5	M14 x 1.5	0.677	17.20	0.728	18.49	0.374	9.50	10	1.86
MCAP-TP-M16X1.5	M16 x 1.5	0.677	17.20	0.866	22.00	0.492	12.50	10	1.80
MCAP-TP-M18X1.5	M18 x 1.5	0.720	18.29	0.960	24.38	0.539	13.69	10	1.91
MCAP-TP-M20X1.5	M20 x 1.5	0.716	18.19	1.035	26.29	0.551	14.00	10	1.80
MCAP-TP-M22X1.5	M22 x 1.5	0.720	18.29	1.110	28.19	0.539	13.69	10	1.80
MCAP-TP-M24X1.5	M24 x 1.5	0.728	18.49	1.232	31.29	0.543	13.79	10	2.07
MCAP-TP-M25X1.5	M25 x 1.5	0.728	18.49	1.232	31.30	0.551	14.00	5	2.29
MCAP-TP-M26X1.5	M26 x 1.5	0.736	18.69	1.287	32.69	0.543	13.79	5	2.33
MCAP-TP-M52X1.5	M52 x 1.5	0.846	21.50	2.508	63.70	0.610	15.50	5	7.62

PLASTIC CAP PLUGS



These low density polyethylene caps protect the faces of split flange connectors

Split Flange Coupling Caps - SAE CODE 61

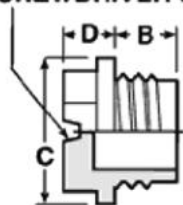
Part Number	Flange Size	Cap Size	Min Std Pkg	List Price
CAP-SF-8	1/2	1.19	50	\$0.19
CAP-SF-10	5/8	1.35	50	0.27
CAP-SF-12	3/4	1.50	50	0.32
CAP-SF-16	1	1.75	35	0.35
CAP-SF-20	1-1/4	2.00	35	0.36
CAP-SF-24	1-1/2	2.38	25	0.57
CAP-SF-32	2	2.81	15	0.75
CAP-SF-40	2-1/2	3.31	15	1.06

Split Flange Coupling Caps - SAE CODE 62

Part Number	Flange Size	Cap Size	Min Std Pkg	List Price
CAP-HPSF-8	1/2	1.25	10	\$1.88
CAP-HPSF-12	3/4	1.625	10	2.13
CAP-HPSF-16	1	1.87	10	2.18
CAP-HPSF-20	1-1/4	2.125	10	2.23
CAP-HPSF-24	1-1/2	2.5	10	2.54
CAP-HPSF-32	2	3.125	10	2.53



SCREWDRIVER SLOT



Threaded O-Ring Plugs

Part Number	Std Thread Size	B	C	D	Min Std Pkg	List Price
CAP-TF-9-OR	9/16-18	0.35	0.81	0.19	10	\$2.27
CAP-TF-12-OR	3/4-16	0.44	0.89	0.18	10	2.41

BOLTED SPLIT FLANGE PROTECTORS



3,000 PSI Flanges SAE Code 61

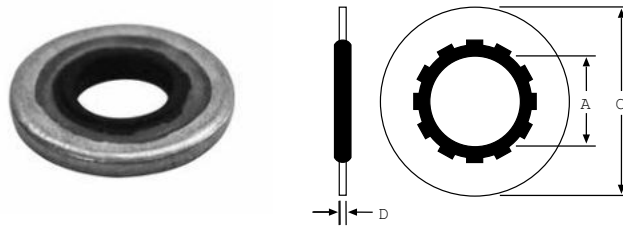
Part Number	Port Size	Min Std Pkg	List Price
CAP-8218	1/2	10	\$2.27
CAP-8219	3/4	10	2.33
CAP-8220	1	10	2.49
CAP-8221	1-1/4	10	2.64
CAP-8222	1-1/2	10	2.81
CAP-8223	2	10	3.11
CAP-8224	2-1/2	10	3.11

5,000 PSI Flanges SAE Code 62

Part Number	Port Size	Min Std Pkg	List Price
CAP-XP-075	3/4	10	\$2.33
CAP-XP-100	1	10	2.49
CAP-XP-125	1-1/4	10	2.64
CAP-XP-150	1-1/2	10	2.81
CAP-XP-200	2	10	3.11

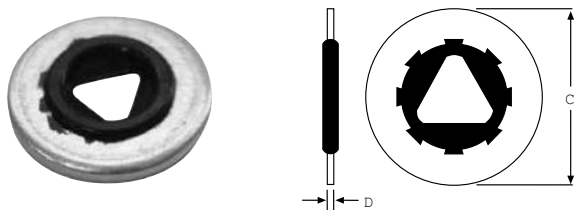
**Cap Plug Assortment Kits
Also Available -
See the Kit & Tool Section**

STYLE 110 FACE SEALS



Part Number	Max Screw Size	A Rubber I.D.	B Steel I.D.	C Steel O.D.	D Steel Thick.	List Price
DY-110X8	.164	.156	.255	.385	.041	\$4.54
DY-110X10	.177	.180	.317	.443	.050	2.99
DY-110X3/16	.190	.220	.281	.425	.054	5.84
DY-110X7/32	.216	.246	.307	.455	.054	20.61
DY-110X1/4	.250	.240	.381	.505	.054	3.46
DY-110X5/16	.312	.301	.488	.603	.054	4.53
DY-110X3/8	.375	.368	.546	.666	.054	4.78
DY-110X7/16	.437	.427	.618	.760	.054	8.81
DY-110X1/2	.500	.490	.696	.880	.054	9.80
DY-110X9/16	.562	.552	.759	1.067	.054	9.80
DY-110X5/8	.625	.615	.818	1.193	.054	11.98

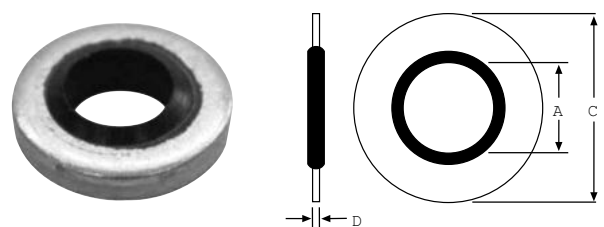
THREAD SEAL



Thread seals provide a positive seal directly against the threads of a bolt. Self-centering and easily installed.

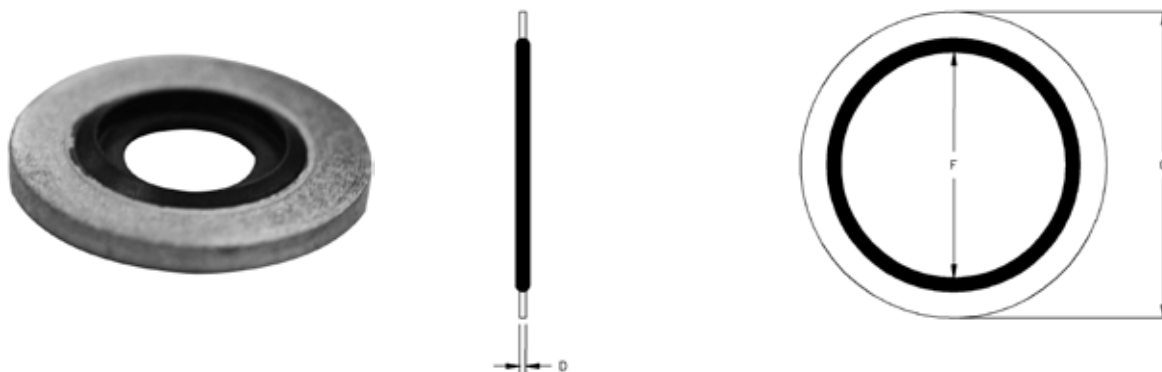
Part Number	C	D	Thread Size	List Price
TS7500X10	.469	.051	-10	\$8.00
TS7500X1/4	.562	.051	1/4	4.49
TS7500X5/16	.687	.064	5/16	9.25
TS7500X3/8	.750	.064	3/8	9.17
TS7500X7/16	.906	.078	7/16	9.65
TS7500X1/2	1.000	.078	1/2	18.06
TS7500X7/8	1.562	.109	7/8	29.58

STYLE SB FACE SEALS



Part Number	A	C	D	List Price
DY-SB-001	.115	.250	.048	\$3.01
DY-SB-002	.157	.286	.048	3.01
DY-SB-003	.205	.330	.051	2.34
DY-SB-004	.270	.520	.051	2.34
DY-SB-005	.270	.525	.048	3.32
DY-SB-006	.322	.525	.048	3.32
DY-SB-007	.340	.560	.051	2.41
DY-SB-020A	.408	.625	.083	2.56
DY-SB-008	.443	.723	.083	2.56
DY-SB-009	.460	.750	.083	2.58
DY-SB-225	.531	.866	.059	2.64
DY-SB-021B	.541	.810	.083	2.58
DY-SB-010	.585	.875	.083	2.83
DY-SB-022BB	.625	.875	.083	2.85
DY-SB-011	.650	1.000	.083	2.91
DY-SB-023C	.680	.937	.083	2.95
DY-SB-012	.715	1.000	.097	2.95
DY-SB-024CC	.775	1.060	.097	3.23
DY-SB-025D	.848	1.125	.097	3.65
DY-SB-026E	.925	1.250	.097	4.00
DY-SB-013	.955	1.310	.097	7.00
DY-SB-027F	1.065	1.375	.097	4.86
DY-SB-240	1.083	1.417	.07	4.98
DY-SB-028	1.095	1.520	.097	6.31
DY-SB-014	1.150	1.440	.092	6.90
DY-SB-029G	1.213	1.500	.097	7.35
DY-SB-015	1.280	1.630	.128	7.89
DY-SB-031	1.329	1.685	.092	8.67
DY-SB-030H	1.334	1.685	.133	7.40
DY-SB-016	1.410	1.750	.133	16.98
DY-SB-032J	1.690	2.062	.103	14.18
DY-SB-033K	1.907	2.307	.103	16.43
DY-SB-019	2.030	2.500	.128	25.77
DY-SB-034	2.161	2.750	.133	27.77
DY-SB-036	2.385	2.875	.133	23.21
DY-SB-038	2.625	3.130	.133	37.26
DY-SB-039	2.995	3.550	.133	41.77

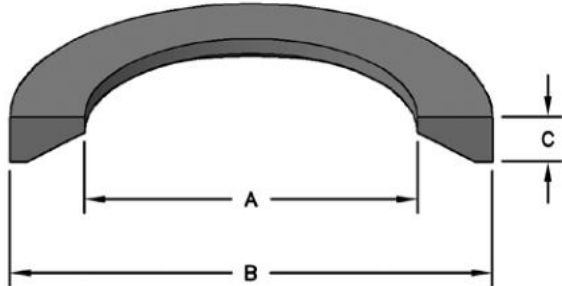
STYLE SB-SCR FACE SEALS



Part Number	F Self-Centralizing	C	D	List Price
DY-SB-005-SCR	0.185	0.525	0.048	\$3.32
DY-SB-006-SCR	0.240	0.525	0.048	3.32
DY-SB-007-SCR	0.240	0.560	0.048	2.91
DY-SB-020A-SCR	0.337	0.625	0.080	2.56
DY-SB-008-SCR	0.337	0.723	0.080	2.91
DY-SB-009-SCR	0.346	0.750	0.080	3.23
DY-SB-021B-SCR	0.451	0.810	0.080	2.58
DY-SB-010-SCR	0.456	0.875	0.080	2.83
DY-SB-022BB-SCR	0.476	0.875	0.080	2.85
DY-SB-023C-SCR	0.589	0.937	0.080	2.95
DY-SB-012-SCR	0.571	1.000	0.098	2.95
DY-SB-024CC-SCR	0.622	1.060	0.098	3.23
DY-SB-025D-SCR	0.734	1.125	0.098	3.65
DY-SB-026E-SCR	0.811	1.250	0.098	4.00
DY-SB-013-SCR	0.795	1.310	0.098	7.00
DY-SB-027F-SCR	0.950	1.375	0.098	4.86
DY-SB-014-SCR	0.941	1.440	0.098	6.90
DY-SB-031-SCR	1.193	1.685	0.098	8.67
DY-SB-029G-SCR	1.098	1.500	0.098	7.35
DY-SB-015-SCR	1.067	1.630	0.126	7.89
DY-SB-030H-SCR	1.193	1.685	0.126	7.40
DY-SB-016-SCR	1.161	1.750	0.126	16.98

DIN 3869 CONNECTOR RINGS

DIN 3869 profile rings are axially static soft seals in combination with threaded elements. They are molded from elastomers used for sealing threaded tube connections and fittings. Most common application, construction machinery, hydraulic presses, injection machines, etc. The DIN3869 is offered in two materials, an NBR 85 Shore A (black finish), and FKM 80 Shore A (green finish).



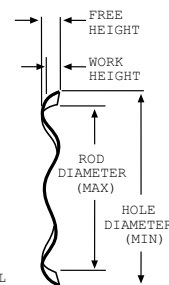
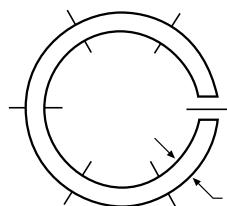
SEAL INFORMATION

MATERIAL	COLOR	TEMP RANGE
85A NBR	BLACK	-30° TO +100° C -22° TO +212° F
VITON (FKM)	GREEN	-20° TO +200° C -4° TO +392° F

Part Number	Nominal Size	Thread	A Inside Diameter	B Outside Diameter	C Height	Package Quantity	List Price
DIN3869-M8X1	8	M8 x 1	6.50	9.90	1.00	5	\$2.19
DIN3869-M10X1	10	M10 x 1	8.40	11.90	1.00	5	1.33
DIN3869-M12X1.5	12	M12 x 1.5	9.80	14.40	1.50	5	1.33
DIN3869-M14X1.5	14	M14 x 1.5	11.60	16.50	1.50	5	1.72
DIN3869-M16X1.5	16	M16 x 1.5	13.80	18.90	1.50	5	1.72
DIN3869-M17X1.5	17	M17 x 1.5	14.70	18.90	1.50	5	1.72
DIN3869-M18X1.5	18	M18 x 1.5	15.70	20.90	1.50	5	1.87
DIN3869-M20X1.5	20	M20 x 1.5	17.80	22.90	1.50	5	2.19
DIN3869-M21X1.5	21	M21 x 1.5	18.50	23.90	1.50	5	2.57
DIN3869-M22X1.5	22	M22 x 1.5	19.60	24.30	1.50	5	2.60
DIN3869-M21X2	21	M21 x 2	18.50	23.90	2.00	1	21.37
DIN3869-M27X2	27	M27 x 2	23.90	29.20	2.00	5	2.49
DIN3869-M30X2	30	M30 x 2	27.70	32.70	2.00	2	5.19
DIN3869-M33X2	33	M33 x 2	29.70	35.70	2.00	2	1.57
DIN3869-M42X2	42	M42 x 2	38.80	45.80	2.00	2	2.58
DIN3869-M48X2	48	M48 x 2	44.70	50.70	2.00	2	3.30
DIN3869-M8X1-V	8	M8 x 1	6.50	9.90	1.00	5	4.76
DIN3869-M10X1-V	10	M10 x 1	8.40	11.90	1.00	5	4.76
DIN3869-M12X1.5-V	12	M12 x 1.5	9.80	14.40	1.50	5	7.80
DIN3869-M14X1.5-V	14	M14 x 1.5	11.60	16.50	1.50	5	7.80
DIN3869-M16X1.5-V	16	M16 x 1.5	13.80	18.90	1.50	2	3.98
DIN3869-M18X1.5-V	18	M18 x 1.5	15.70	20.90	1.50	2	4.33
DIN3869-M20X1.5-V	20	M20 x 1.5	17.80	22.90	1.50	2	5.56
DIN3869-M21X1.5-V	21	M21 x 1.5	18.50	23.90	1.50	2	5.88
DIN3869-M22X1.5-V	22	M22 x 1.5	19.60	24.30	1.50	2	6.06
DIN3869-M27X2-V	27	M27 x 2	23.90	29.20	2.00	2	6.42
DIN3869-M30X2-V	30	M30 x 2	27.70	32.70	2.00	2	10.93

WAVE SPRINGS

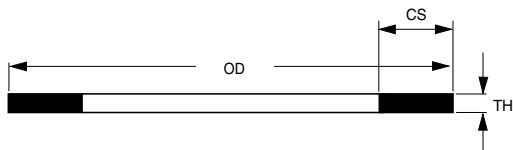
Wave Springs offer a convenient method of exerting a pre-load on vee packing where little or no adjustment is available. Because of a low fatigue factor, the spring should provide a proper pre-load throughout the life of the packing.



Part Number	WORK HEIGHT	FREE HEIGHT	E ROD DIAMETER	HOLE DIAMETER	RADIAL WALL	List Price
SSR-0112	.078	.130	.840	1.125	.133	\$18.65
SSR-0125	.078	.150	.960	1.250	.133	7.05
SSR-0150	.078	.170	1.170	1.500	.143	7.49
SSR-0175	.078	.140	1.440	1.750	.143	7.49
SSR-0187	.078	.150	1.560	1.875	.143	7.49
SSR-0200	.093	.140	1.680	2.000	.150	8.15
SSR-0225	.093	.170	1.930	2.250	.150	8.63
SSR-0237	.093	.160	1.990	2.375	.178	8.88
SSR-0250	.093	.170	2.120	2.500	.178	9.35
SSR-0262	.093	.190	2.240	2.625	.178	9.35
SSR-0275	.109	.170	2.340	2.750	.188	10.28
SSR-0300	.109	.190	2.590	3.000	.188	11.01
SSR-0312	.109	.210	2.710	3.120	.188	10.93
SSR-0325	.109	.200	2.750	3.250	.233	11.83
SSR-0350	.109	.230	3.000	3.500	.233	22.04
SSR-0362	.109	.240	3.120	3.625	.233	22.47
SSR-0375	.109	.260	3.250	3.750	.233	13.87
SSR-0400-N	.109	.200	3.570	4.000	.188	40.78
SSR-0425	.109	.210	3.740	4.250	.233	43.76
SSR-0462	.109	.230	4.125	4.625	.233	17.06
SSR-0475	.125	.310	4.240	4.750	.233	52.88
SSR-0512	.125	.340	4.610	5.125	.233	61.25

CARBON STEEL SHIMS

These carbon steel shims are commonly used with vee packing sets to fill the empty space in a gland.



Part Number	OUTSIDE DIAMETER	th THICKNESS	CROSS SECTION	List Price
SSRS-0150	1.500	.024	.150	\$3.01
SSRS-0175	1.750	.024	.150	3.01
SSRS-0200	2.000	.024	.150	4.20
SSRS-0237	2.375	.024	.178	6.26
SSRS-0312	3.125	.030	.188	4.00
SSRS-0375	3.750	.030	.233	4.74

GRADE C LOCKNUTS

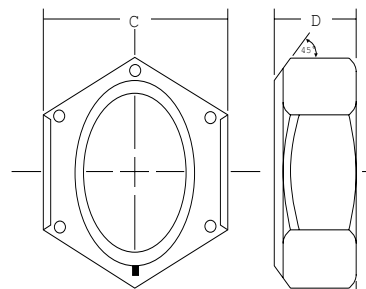
These fine-threaded Grade C locknuts are formed from medium carbon, heat-treated steel and are designed to be used with a Grade 8 bolt. Smaller size locknuts employ an automation style collar while the larger ones use a full collar design. Both locknut types are stocked with cadmium and wax plating.

Automation Style

Part Number	Size	Thread Pitch	C Width Across Flats		D Overall Thickness		List Price
			Max	Min	Max	Min	
LN-1/2-13	1/2	13	0.7500	0.736	0.573	0.427	\$1.31
LN-1/2-20	1/2	20	0.752	0.741	0.609	0.579	0.78
LN-1-14	1	14	1.5020	1.450	0.887	0.831	6.49
LN-3/4-16	3/4	16	1.1250	1.088	0.665	0.617	3.91
LN-5/8-18	5/8	18	0.9375	0.922	0.731	0.535	2.58
LN-7/8-14	7/8	14	1.3145	1.269	0.922	0.724	5.16
LN-7/16-20	7/16	20	0.627	0.616	0.468	0.438	3.36



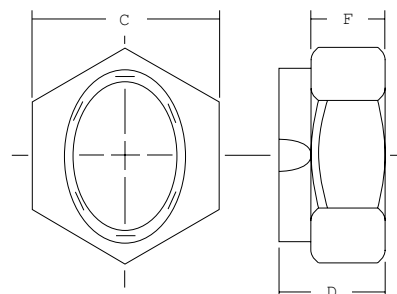
Automation Style



Full Collar Style

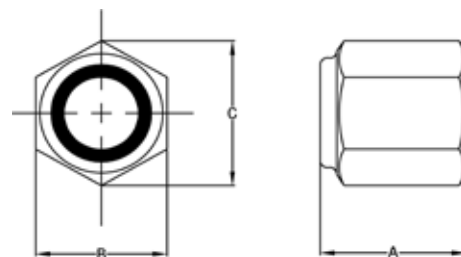
Part Number	Size	Thread Pitch	C Width Across Flats		D Overall Thickness		F Hex Height		List Price
			Max	Min	Max	Min	Max	Min	
LN-1-1/2-12	1-1/2	12	2.250	2.175	1.317	1.246	0.885	0.843	\$36.55
LN-1-1/4-12	1-1/4	12	1.876	1.812	1.094	1.030	0.719	0.698	26.64
LN-1-1/8-12	1-1/8	12	1.687	1.631	0.999	0.939	0.657	0.636	16.79
LN-1-3/4-12	1-3/4	12	2.625	2.538	1.540	1.460	1.012	0.989	63.02
LN-1-3/8-12	1-3/8	12	2.062	1.994	1.206	1.138	0.795	0.771	56.76
LN-2-12	2	12	3.000	2.900	1.763	1.675	1.158	1.134	133.00

Full Collar Style



Part Number	Bar Size	A	B	C	List Price
CM-LN45050	1/2"-20	0.60	0.75	0.84	\$6.13
CM-LN45062	5/8"-18	0.75	0.94	1.06	21.29
CM-LN45075	3/4"-16	0.88	1.06	1.19	26.67
CM-LN45087	7/8"-14	1.00	1.25	1.40	14.69
CM-LN45100	1"-14	1.06	1.44	1.62	19.90
CM-LN45101	1"-14	0.88	1.62	1.83	23.70
CM-LN45112	1-1/8"-12	1.19	1.62	1.83	27.30
CM-LN45126	1-1/4"-12	1.38	1.81	2.06	31.76
CM-LN45151	1-1/2"-12	1.62	2.19	2.44	41.72
CM-LN45152	1-1/2"-12	0.81	2.19	2.44	32.75
CM-LN45175	1-3/4"-12	1.50	2.75	3.06	80.29
CM-LN45200	2"-12	1.62	3.12	3.50	85.70
CM-LN45225	2-1/4"-12	1.94	3.50	3.94	182.49
CM-LN45226	2-1/4"-12	2.81	3.50	3.94	249.88
CM-LN45250	2-1/2"-12	2.25	4.00	4.50	395.68

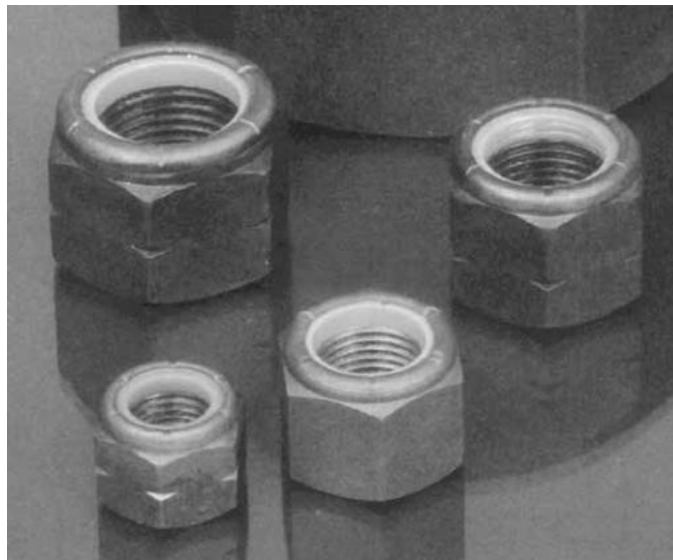
Nylon Insert Lock Nut



"NYLON INSERT" LOCKING NUTS

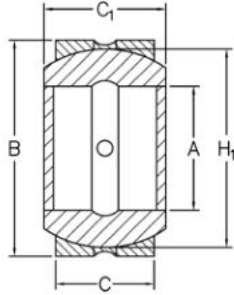
Manufactured from the finest quality steel to offer superior strength, Hercules® Sealing Products locking nuts with nylon inserts are specifically designed and manufactured to exact dimensions. The high temperature locking inserts are designed to withstand the high temperatures associated with close tolerance performance applications.

Part Number	Thread Size & Pitch	Height	Flats	List Price
CTC-2J0564	2 - 12	1-5/8	3-1/8	\$92.56
CTC-2J3247	1-3/4 - 12	1-7/16	2-3/4	86.71
CTC-2J3950	1-1/2 - 12	1-5/16	2-3/8	59.61
CTC-2J6384	1-1/4 - 12	1-1/8	2	53.11
CTC-2J7686	2-1/2 - 12	2-3/16	4	427.34
CTC-3J6899	2-1/4 - 12	2-13/16	3-1/2	269.87
CTC-3J9449	2-1/2 - 12	2-5/8	4	399.40
CTC-3J9545	2 - 12	2-7/16	3-1/8	248.38
CTC-4J6888	2-3/4 - 12	2-1/4	4	252.48
CTC-4J8734	2-3/4 - 12	3-1/8	4	482.72
CTC-5J3488	2-1/4 - 12	1-15/16	3-1/2	197.08
CTC-5J5731	1-3/4 - 12	1-7/16	2-1/2	55.60
CTC-7J9250	3-1/4 - 12	3-1/8	4-1/2	516.21
CTC-9X6018	4 - 12	3.73	5.62	1,083.50
CTC-1438149	M48 × 2	50 mm	75 mm	230.78
CTC-1438150	M56 × 2	56 mm	85 mm	242.54
CTC-1336686	M56 × 2	57 mm	80 mm	265.20
CTC-1475835	M64 × 2	63 mm	95 mm	326.02
CTC-7Y4622	M72 × 2	70 mm	105 mm	575.32
CTC-7Y4695	M80 × 2	76 mm	115 mm	577.02
CTC-1232060	M80 × 2	64 mm	115 mm	409.09
CTC-1232112	M90 × 2	76 mm	130 mm	724.09
CTC-7Y4956	M90 × 2	84 mm	130 mm	690.96
CTC-0875385	M95 × 2	88 mm	135 mm	860.53
CTC-1261971	M100 × 2	89 mm	146 mm	1,184.70
CTC-1163513	M105 × 2	97 mm	150 mm	1,367.37
CTC-1163516	M120 × 2	108 mm	170 mm	1,643.53



*Grade N8 (Grade C equivalent) or non-heat treated micro-alloy steel.

STYLE HH SELF ALIGNING BEARINGS (INCH)



SEAL INFORMATION

MATERIAL

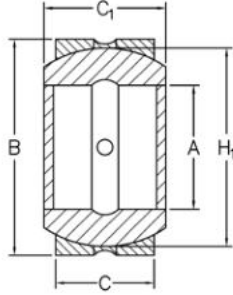
CARBON
CHROMIUM STEEL

SUFFIX:
2RS = SEALED BEARINGS

REPAIR ACCESSORIES

Part Number	A Nom. ID	B Nom. OD	C Nom. ID	C ₁ OVERALL HEIGHT	G HOUSING DIAMETER	H ₁ BEARING GROOVE DIAMETER	Static Radial Load (lbs)	Dynamic Radial Load (lbs)	MATERIAL	List Price
HH008ES	1/2	7/8	3/8	.437	.875 ^{+0.000} _{-0.008}	.709	9337	3156	STEEL	\$31.42
HH010ES	5/8	1-1/16	15/32	.547	1.0625 ^{+0.000} _{-0.008}	.899	14732	4864	STEEL	34.55
HH012ES	3/4	1-1/4	9/16	.656	1.250 ^{+0.000} _{-0.001}	1.083	20927	7089	STEEL	32.49
HH100ES	1	1-5/8	3/4	.875	1.625 ^{+0.000} _{-0.001}	1.417	37359	12605	STEEL	28.27
HHW100ES	1	1-5/8	1-1/2	1.500	1.625 ^{+0.000} _{-0.001}	1.417	37351	12604	STEEL	35.47
HH104ES	1-1/4	2	15/16	1.093	2.000 ^{+0.000} _{-0.0012}	1.772	58507	19468	STEEL	40.82
HH106ES	1-3/8	2-3/16	1-1/32	1.187	2.1875 ^{+0.000} _{-0.0012}	1.929	69756	23404	STEEL	61.78
HH108ES	1-1/2	2-7/16	1-1/8	1.312	2.4375 ^{+0.000} _{-0.0012}	2.165	84379	28129	STEEL	53.41
HH108ES2RS	1-1/2	2-7/16	1-1/8	1.312	2.4375 ^{+0.000} _{-0.0012}	2.165	84379	28129	STEEL	71.18
HH112ES	1-3/4	2-13/16	1-5/16	1.531	2.8125 ^{+0.000} _{-0.0012}	2.520	114752	38255	STEEL	73.31
HH112ES2RS	1-3/4	2-13/16	1-5/16	1.531	2.8125 ^{+0.000} _{-0.0012}	2.520	114752	38255	STEEL	92.13
HH200ES	2	3-3/16	1-1/2	1.750	3.1875 ^{+0.000} _{-0.0014}	2.874	150754	50408	STEEL	99.48
HH200ES2RS	2	3-3/16	1-1/2	1.750	3.1875 ^{+0.000} _{-0.0014}	2.874	150754	50408	STEEL	119.38
HHW200ES	2	3-3/16	3	3.000	3.1875 ^{+0.000} _{-0.0014}	2.874	150757	50406	STEEL	112.68
HH204ES	2-1/4	3-9/16	1-11/16	1.969	3.5625 ^{+0.000} _{-0.0014}	3.228	191251	63002	STEEL	136.14
HH204ES2RS	2-1/4	3-9/16	1-11/16	1.969	3.5625 ^{+0.000} _{-0.0014}	3.228	191251	63002	STEEL	185.79
HH208ES	2-1/2	3-15/16	1-7/8	2.187	3.9375 ^{+0.000} _{-0.0014}	3.583	234007	77629	STEEL	184.32
HH212ES	2-3/4	4-3/8	2-1/16	2.406	4.375 ^{+0.000} _{-0.0014}	3.937	285752	95628	STEEL	216.42
HH300ES	3	4-3/4	2-1/4	2.625	4.750 ^{+0.000} _{-0.0016}	4.331	337506	112505	STEEL	324.60
HH300ES2RS	3	4-3/4	2-1/4	2.625	4.750 ^{+0.000} _{-0.0016}	4.331	337506	112505	STEEL	386.84
HH308ES	3-1/2	5-1/2	2-5/8	3.062	5.500 ^{+0.000} _{-0.0016}	5.039	459001	153003	STEEL	281.89
HH308ES2RS	3-1/2	5-1/2	2-5/8	3.062	5.500 ^{+0.000} _{-0.0016}	5.039	459001	153003	STEEL	638.80
HH312ES	3-3/4	5-7/8	2-13/16	3.281	5.875 ^{+0.000} _{-0.0016}	5.394	531004	175507	STEEL	622.02
HH400ES	4	6-1/4	3	3.500	6.250 ^{+0.000} _{-0.0016}	5.748	596256	202508	STEEL	515.67

STYLE MHH SELF ALIGNING BEARINGS (METRIC)



SEAL INFORMATION

MATERIAL

CARBON
CHROMIUM STEEL

SUFFIX:
2RS = SEALED BEARINGS

Part Number	A Nom. ID	B Nom. OD	C Nom. Ht	C ₁ OVERALL HEIGHT	G HOUSING DIAMETER	H ₁ BEARING GROOVE DIAMETER	Static Radial Load (lbs)	Dynamic Radial Load (lbs)	List Price
MHH20ES	20	35	12	16	35 ^{+0.000} _{-0.025}	29	32857	6759	\$39.62
MHH25ES	25	42	16	20	42 ^{+0.000} _{-0.025}	36	54003	10804	49.34
MHH25ES2RS	25	42	16	20	42 ^{+0.000} _{-0.025}	36	54003	10804	46.05
MHH30ES	30	47	18	22	47 ^{+0.000} _{-0.025}	41	69751	13951	52.22
MHH30ES2RS	30	47	18	22	47 ^{+0.000} _{-0.025}	41	69751	13951	65.32
MHH35ES	35	55	20	25	55 ^{+0.00} _{-0.03}	47	90008	18009	67.64
MHH35ES2RS	35	55	20	25	55 ^{+0.00} _{-0.03}	47	90008	18009	65.32
MHH40ES	40	62	22	28	62 ^{+0.00} _{-0.03}	53	112507	22501	74.65
MHH40ES2RS	40	62	22	28	62 ^{+0.00} _{-0.03}	53	112507	22501	64.06
MHH45ES2RS	45	68	25	32	68 ^{+0.00} _{-0.03}	60	144009	28578	115.28
MHH50ES	50	75	28	35	75 ^{+0.00} _{-0.03}	66	175509	35109	109.03
MHH50ES2RS	50	75	28	35	75 ^{+0.00} _{-0.03}	66	175509	35109	212.47
MHH60ES	60	90	36	44	90 ^{+0.000} _{-0.035}	80	274509	55128	168.38
MHH70ES	70	105	40	49	105 ^{+0.000} _{-0.035}	92	351007	70876	252.43
MHH70ES2RS	70	105	40	49	105 ^{+0.000} _{-0.035}	92	351007	70876	212.47
MHH80ES	80	120	45	55	120 ^{+0.000} _{-0.035}	105	450005	90008	275.53

SET SCREWS



These set screws are used on many cylinder headnuts. Use nylon plugs to ensure no damage to the headnut threads. All set screws employ Allen wrench heads.

Part Number	Thread Size	Length	List Price
SS-1/4-20X1/2	1/4-20	1/2	\$1.59
SS-1/4-20X3/8	1/4-20	3/8	1.86
SS-1/4-28X1/4	1/4-28	1/4	1.48
SS-1/4-28X3/8	1/4-28	3/8	1.48
SS-5/16-18X1/4	5/16-18	1/4	1.48
SS-5/16-18X3/8-CUP	5/16-18	3/8	1.48
SS-5/16-18X3/4-CUP	5/16-18	3/4	2.00
SS-5/16-24X5/16	5/16-24	5/16	0.63
SS-5/16-24X3/8	5/16-24	3/8	2.00
SS-3/8-16X3/8	3/8-16	3/8	1.13
SS-3/8-16X1/2	3/8-16	1/2	1.59
SS-3/8-16X5/8	3/8-16	5/8	1.95
SS-3/8-16X7/8	3/8-16	7/8	2.25
SS-1/2-13X1/2	1/2-13	1/2	2.62
SS-1/2-13X5/8	1/2-13	5/8	3.05
SS-#10-24X1/4	#10-24	1/4	1.48

NYLON PLUGS



These nylon plugs are used with headnut set screws to ensure that there is no damage to the headnut threads.

Part Number	Diameter	Length	List Price
NYPLUG-125-125	1/8	1/8	\$1.16
NYPLUG-125-156	1/8	5/32	1.05
NYPLUG-125-875	1/8	7/8	1.95
NYPLUG-187-109	3/16	7/64	1.01
NYPLUG-187-187	3/16	3/16	1.01
NYPLUG-187-250	3/16	1/4	1.02
NYPLUG-250-070	1/4	0.070	1.49
NYPLUG-250-125	1/4	1/8	1.01
NYPLUG-250-187	1/4	3/16	1.01
NYPLUG-250-250	1/4	1/4	1.78
NYPLUG-312-125	5/16	1/8	1.01
NYPLUG-312-250	5/16	1/4	3.07
NYPLUG-312-312	5/16	5/16	2.89
NYPLUG-375-250	3/8	1/4	1.01
NYPLUG-500-875-125H	1/2	7/8	15.11

WIND-IN LOCK WIRES



Part Number	Thickness	Length	List Price
LW-093-1262	3/32 sq.	12-5/8	\$41.73
MARION-35240	1/8 sq.	10-1/4	19.28
MARION-35250	1/8 sq.	13-3/8	18.17
MARION-35260	1/8 sq.	16-3/8	18.50
MARION-35270	1/8 sq.	19-1/4	21.26
MARION-1031	3/16 sq.	21.00	30.91
1/8 RD WIRE	1/8 round	11	4.84

FILTER VENT PLUGS



These plugs are used to allow air to pass in and out of the non-pressurized end of a single-acting cylinder.

Part Number	NPT Port Size	List Price
FV-.125	1/8	\$6.73
FV-.250	1/4	9.12
FV-.375	3/8	11.01
FV-.500	1/2	13.23
FV-.750	3/4	20.34
FV-1.000	1	24.37

STEEL PLUGS AND VENTS

Steel Plug (O-Ring Boss)



PART NUMBER	PORT SIZE	LIST PRICE
CM-74004	#4 SAE	\$11.11
CM-74005	#5 SAE	11.15
CM-74006	#6 SAE	11.17
CM-74008	#8 SAE	12.06
CM-74010	#10 SAE	13.40
CM-74012	#12 SAE	17.87
CM-74014	#14 SAE	39.08
CM-74016	#16 SAE	47.62
CM-74020	#20 SAE	51.18

NPT Steel Plug

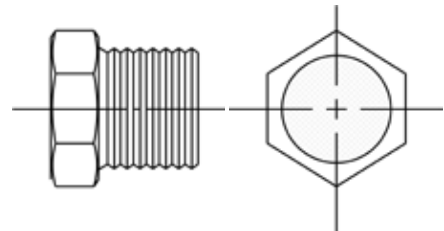
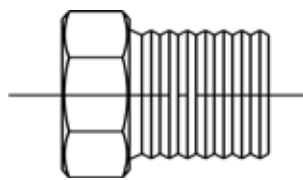
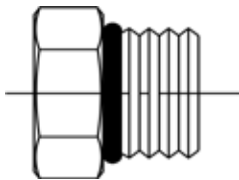


PART NUMBER	PORT SIZE	LIST PRICE
CM-74112	1/8" NPT	\$8.36
CM-74125	1/4" NPT	8.43
CM-74137	3/8" NPT	8.52
CM-74150	1/2" NPT	8.59
CM-74175	3/4" NPT	16.75
CM-74199	1" NPT	17.07
CM-74200	1-1/4" NPT	33.48

NPT Air Vent



PART NUMBER	PORT SIZE	LIST PRICE
CM-77002	1/8" NPT	\$6.73
CM-77004	1/4" NPT	9.12
CM-77006	3/8" NPT	11.01
CM-77008	1/2" NPT	13.23
CM-77010	3/4" NPT	20.34



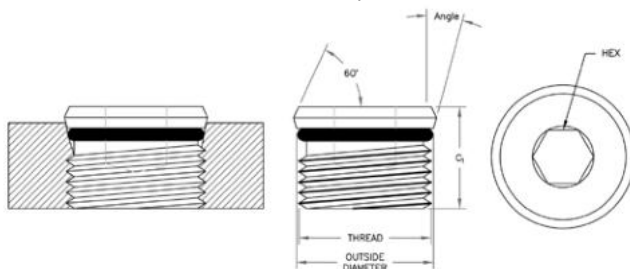
MANUAL BLEEDER VALVES



Part Number	Thread Size	Min Pkg Qty	List Price
WH705	1/8 NPT	3	\$7.21

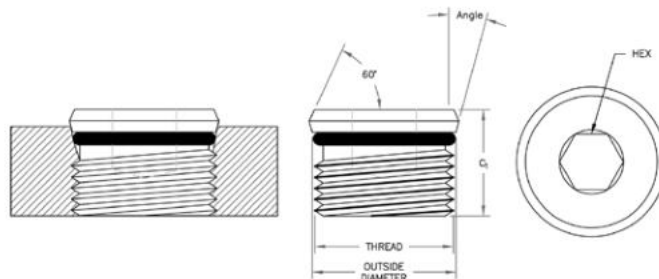
ZERO-LEAK GOLD STANDARD THREAD PORT PLUGS

Thread Port plugs which are interchangeable with plugs used in SAE J514 / SAE J1926 standard ports.



Part Number	SIZE NUMBER	C ₁ OVERALL HEIGHT	OUTSIDE DIAMETER	HEX	Angle	TESTED TORQUE (ft-lbs)	O-RING	THREAD	List Price
SHTPP-S00	N/A	.310 ±.010	.221 ±.003	.061 ^{+0.005} / _{-0.000}	12 ^{+0.0} / _{-0.5}		MOR-3X1.25	#10-32 UNF	\$8.40
SHTPP-S01	1	.440 ±.010	.296 ±.003	.125 ^{+0.005} / _{+0.000}	12 ^{+0.0} / _{-0.5}		MOR-4.5X1.5	1/4-24 UNS	2.52
SHTPP-S03	3	.380 ±.010	.411 ±.003	.125 ^{+0.005} / _{+0.000}	12 ^{+0.0} / _{-0.5}		MOR-7X1.5	3/8-24 UNF	2.23
SHTPP-S04	4	.450 ±.020	.477 ±.003	.188 ^{+0.005} / _{+0.000}	12 ^{+0.0} / _{-0.5}	7	MOR-8X1.5	7/16-20 UNF	3.53
SHTPP-S05	5	.450 ±.020	.540 ±.003	.188 ^{+0.005} / _{+0.000}	12 ^{+0.0} / _{-0.5}	9	MOR-10X1.5	1/2-20 UNF	3.90
SHTPP-S06	6	.480 ±.020	.606 ±.003	.250 ^{+0.005} / _{+0.000}	12 ^{+0.0} / _{-0.5}	11	MOR-12.1X1.6	9/16-18 UNF	4.45
SHTPP-S08	8	.560 ±.020	.800 ±.003	.313 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}	28	568-016	3/4-16 UNF	5.26
SHTPP-S10	10	.630 ±.020	.930 ±.003	.375 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}	46	MOR-18X2	7/8-14 UNF	7.09
SHTPP-S12	12	.750 ±.020	1.130 ±.003	.563 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}	51	MOR-22.3X2.4	1-1/16-12 UN	12.55
SHTPP-S14	14	.563 ±.010	1.263 ±.003	.563 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}		MOR-26X2.5	1-3/16-12 UN	22.67
SHTPP-S16	16	.750 ±.020	1.385 ±.003	.625 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}		MOR-27X2.5	1-5/16-12 UN	15.77
SHTPP-S20	20	.750 ±.010	1.697 ±.003	.750 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}		MOR-35X2.5	1-5/8-12 UN	36.21
SHTPP-S24	24	.750 ±.010	1.946 ±.003	.750 ^{+0.005} / _{+0.000}	15 ^{+0.0} / _{-0.5}		MOR-41X2.5	1-7/8-12 UN	113.78

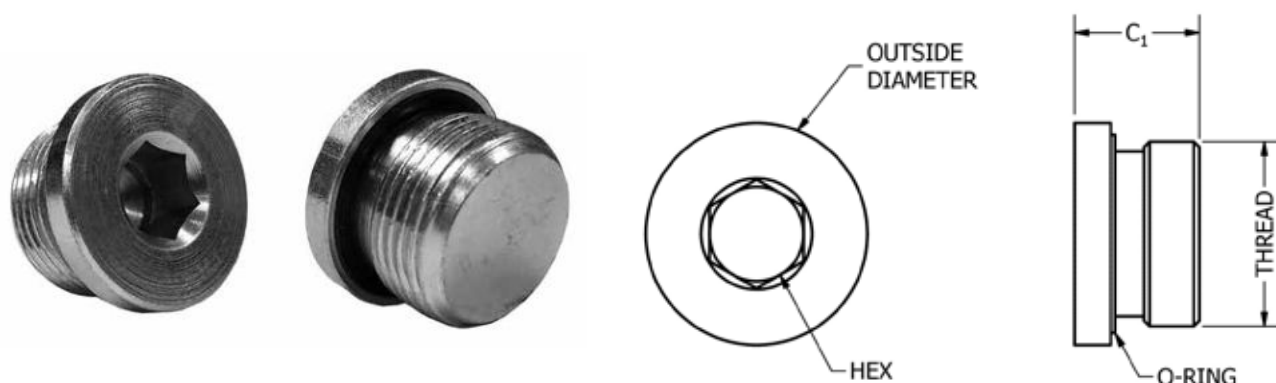
ZERO-LEAK GOLD METRIC THREAD PORT PLUGS



Part Number	Tube Size	C ₁ Overall Height	Outside Diameter	Hex	Angle	O-RING	Thread	List Price
SHTPP-MS-S02	5	9.1 ±.5	8.85 ^{+0.15} / _{-0.00}	3	12 ^{+0.0} / _{-0.5}	MOR-5X1.5	M8x1.0	\$3.51
SHTPP-MS-S03	6	9.3 ±.5	10.85 ^{+0.15} / _{-0.00}	5	12 ^{+0.0} / _{-0.5}	MOR-7X1.5	M10x1.0	3.96
SHTPP-MS-S04	8	11.3 ±.5	13.55 ^{+0.15} / _{-0.00}	6	15 ^{+0.0} / _{-0.5}	MOR-9X2	M12x1.5	4.18
SHTPP-MS-S05	10	11.3 ±.5	15.55 ^{+0.15} / _{-0.00}	6	15 ^{+0.0} / _{-0.5}	MOR-11X2	M14x1.5	4.57
SHTPP-MS-S06	12	14 ±.5	17.55 ^{+0.15} / _{-0.00}	8	15 ^{+0.0} / _{-0.5}	MOR-13X2	M16x1.5	5.53
SHTPP-MS-S07	14	15.3 ±.5	19.55 ^{+0.15} / _{-0.00}	8	15 ^{+0.0} / _{-0.5}	MOR-15X2	M18x1.5	5.97
SHTPP-MS-S08	18	17 ±.5	23.55 ^{+0.15} / _{-0.00}	10	15 ^{+0.0} / _{-0.5}	MOR-19X2	M22x1.5	7.32

BSPP THREAD PORT PLUGS

BSPP are British Standard Pipe Plugs. Plugs come with DIN3869 NBR 85 shore A axial seals already installed to ensure zero leak.

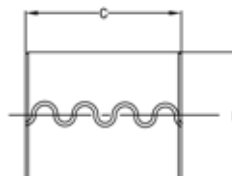


Part Number	Outside Diameter	C1 Overall Height	Hex	O-ring	Thread	List Price
SHTPP-G-1/4	0.748	0.669	6	DIN3869-M14X1.5	BSPP G 1/4-19	\$5.09
SHTPP-G-3/8	0.866	0.669	8	DIN3869-M16X1.5	BSPP G 3/8-19	5.18
SHTPP-G-1/2	1.063	0.748	10	DIN3869-M21X1.5	BSPP G 1/2-14	6.26
SHTPP-G-3/4	1.26	0.827	12	DIN3869-M27X2	BSPP G 3/4-14	6.75
SHTPP-G-1	1.571	0.886	17	DIN3869-M33X2	BSPP G 1-11	15.61

SPLIT TENSION BUSHINGS



Material: Hardened Spring Steel



PART NUMBER	A	B	C	HOUSING DIAMETER	LIST PRICE
CM-99507	0.75	1.00	2.00	1.002/1.006	\$17.45
CM-99508	0.88	1.00	2.00	1.002/1.006	16.79
CM-99510	1.00	1.25	0.75	1.252/1.256	10.99
CM-99514	1.00	1.25	0.88	1.252/1.256	14.00
CM-99511	1.00	1.25	1.00	1.252/1.256	12.28
CM-99513	1.00	1.25	1.25	1.252/1.256	16.26
CM-99512	1.00	1.25	1.50	1.252/1.256	14.53
CM-99519	1.25	1.50	1.25	1.502/1.506	12.93
CM-99522	1.25	1.50	1.50	1.502/1.506	18.39
CM-99521	1.25	1.50	2.00	1.502/1.506	20.35
CM-99531	1.50	1.75	1.50	1.752/1.756	16.20
CM-99533	1.50	1.75	2.00	1.752/1.756	21.95
CM-99535	1.50	1.75	3.00	1.752/1.756	33.07
CM-99534	1.50	1.88	2.00	1.877/1.881	37.26
CM-995335	1.50	1.75	2.50	1.752/1.756	31.04
CM-99537	1.50	2.00	1.25	2.002/2.006	30.26

PART NUMBER	A	B	C	HOUSING DIAMETER	LIST PRICE
CM-995371	1.50	2.00	2.00	2.002/2.006	40.18
CM-99540	1.75	2.00	1.25	2.002/2.006	20.94
CM-995375	1.75	2.00	1.50	2.002/2.006	25.63
CM-99538	1.75	2.00	2.00	2.002/2.006	23.61
CM-99539	1.75	2.00	2.25	2.002/2.006	35.94
CM-995410	1.75	2.00	3.00	2.002/2.006	43.91
CM-99541	1.75	2.25	2.00	2.252/2.256	49.25
CM-99546	2.00	2.38	3.00	2.377/2.381	66.70
CM-99549	2.00	2.25	1.50	2.252/2.256	22.60
CM-99550	2.00	2.25	2.50	2.252/2.256	29.08
CM-99547	2.00	2.50	2.00	2.502/2.506	49.77
CM-99545	2.00	2.50	2.50	2.502/2.506	65.04
CM-99556	2.50	3.00	2.00	3.002/3.006	71.34
CM-99557	2.50	3.00	3.00	3.002/3.006	119.87
CM-99565	3.00	3.50	2.50	3.502/3.506	118.98

LOCTITE



Threadlocker 242 locks fasteners 1/4" and larger yet allows easy disassembly with hand tools. Prevents rust and corrosion.

Part Number	Application	List Price
LOCTITE-24205	Removable Threadlocker 0.5 ml bottle	\$18.02
LOCTITE-24221	Removable Threadlocker 10 ml bottle	66.89
LOCTITE-24231	Removable Threadlocker 50 ml bottle	197.88
LOCTITE-27105	High Strength Threadlocker 0.5 ml bottle	12.31
LOCTITE-29031	Penetrating Threadlocker 50 ml bottle	207.75
LOCTITE-54531	Hyd/Pneum Thread Sealant 50 ml tube	219.58
LOCTITE-82325	Super Lube 3 oz tube	52.32

SEAL LUBE™

O-Ring Lubricant



Part Number: SEAL LUBE

List Price: \$33.64

Seal-Lube™ lubricant is a thick, clear, high viscosity silicone oil recommended for use with most seal compounds (except silicone) and a wide variety of hydraulic fluids. Insoluble in water, alcohol, petroleum oil and glycol, Seal-Lube™ can prolong seal life when applied prior to seal installation. Chemically inert and non-toxic, Seal-Lube™ retains its viscosity over a wide temperature range. The handy squeeze 2 ounce bottle dispenses just enough where you want it.

TURBO LOCK



Turbo Lock threadlocker adhesive series is an economical alternative to Loctite.

Part Number	Application	List Price
THREAD LOCKER-11-001	Removable Threadlocker 2 ml bottle	\$7.29
THREAD LOCKER-11-010	Removable Threadlocker 10 ml bottle	50.92
THREAD LOCKER-11-050	Removable Threadlocker 50 ml bottle	89.10
THREAD LOCKER-14-001	High Strength Threadlocker 2 ml bottle	7.29
THREAD LOCKER-14-250	High Strength Threadlocker 250 ml bottle	306.06
THREAD LOCKER-16-010	Penetrating Threadlocker 10 ml bottle	31.54
THREAD LOCKER-16-050	Penetrating Threadlocker 50 ml bottle	81.65

**Set Screw and Nylon Plug
Assortment Kits
Also Available -
See the Kits & Tools Section**

GREASE FITTINGS



Part Number	Description	List Price
GF-125NPTS	1/8" NPT STRAIGHT	\$2.06
GF-125NPT45	1/8" NPT 45°	3.30
GF-125NPT90	1/8" NPT 90°	3.30
GF-187DS	3/16" DRIVE STRAIGHT	1.41
GF-250-28S	1/4"-28 STRAIGHT	1.08
GF-250-28-45	1/4"-28 45°	2.92
GF-250-28-90	1/4"-28 90°	2.92
GF-312DS	5/16" DRIVE STRAIGHT	1.87

GREASE FITTING CAP



Low density polyethane cap plug for use with standard grease fittings.

Part Number	Description	List Price
CAP-GF-10	Cap Plug	\$0.32

PTFE THREAD SEAL TAPE

Part Number: PTFE TAPE

List Price: \$4.60



1/2" Wide by 520" Roll

SILICONE TAPE



Used to create permanent seals for low pressure gas or liquid leaks in hydraulic hoses.

Temperature Range: -62/+500° F

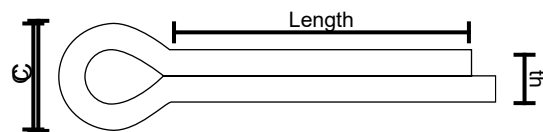
Part Number	Description	List Price
SILICONE TAPE	1" X 432" Roll	\$70.95

SEAL LUBE



Part Number	Description	List Price
GREASE PACK-30ML	Lube	\$4.75

COTTER PINS



Part Number	C	Length	th	List Price
CP-1X3/32	0.1875	1	0.082	\$0.65
CP-1-1/4X1/8	0.25	1.25	0.115	0.48
CP-1-1/2X5/32	0.3125	1.5	0.15	0.65
CP-1-3/4X3/16	0.39	1.75	0.1875	0.94
CP-2X3/16	0.375	2	0.176	0.81
CP-2X1/4	0.5	2	0.225	0.65
CP-2-1/2X1/8	0.25	2.5	0.115	0.48
CP-2-1/2X5/32	0.357	2.5	0.15625	0.79
CP-2-1/2X3/16	0.375	2.5	0.176	0.97
CP-2-1/2X1/4	0.5	2.5	0.225	0.89
CP-3X5/32	0.3125	3	0.15	0.83
CP-3X1/4	0.52	3	0.25	2.25
CP-3-1/2X1/4	0.5	3.5	0.225	1.24
CP-4X1/4	0.5	4	0.225	1.41
CP-5X1/4	0.5	5	0.225	4.47
CP-6X5/16	0.625	6	0.28	5.33

STYLE MCPL COUPLINGS

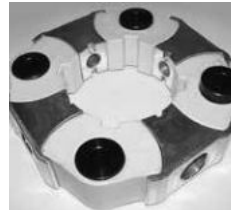
MCPL power transmission couplings are commonly found on mobile equipment to solve vibration problems in combustion engine driven equipment. The rubber or Hytrel elements effectively absorb shock loads, misalignment forces, and torsional vibrations generated by the connecting equipment at start-up for example. The coupling is axially connected to a PTO or flywheel on the engine side and radially connected to the driven equipment such as hydraulic pumps, generators, compressors, etc.



50H



110H



140H



50A

Part Number	ID X OD Dimensions	Material	Application	List Price
MCPL-110H-AL	100 X 222 mm	Plastic with Aluminum	Hitachi, Kato, etc.	\$188.80
MCPL-140H-AL	130 X 250 mm	Plastic with Aluminum	Komatsu, Kobelco, Kato, etc.	321.25
MCPL-50A-AL	107 X 200 mm	Rubber with Aluminum	Kobelco, Mitsubishi, etc.	292.81
MCPL-50H-AL	97 X 200 mm	Plastic with Aluminum	Komatsu, Hitachi, Kobelco, Mitsubishi, Kato, etc.	309.91

Cotter Pin and Grease Fitting Assortment Kits
Also Available -
See the Kits & Tools Section

Industrial Repair Parts

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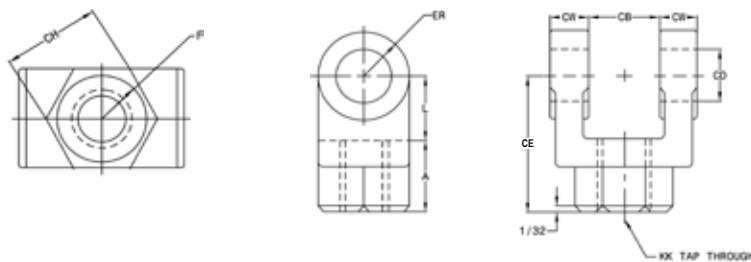
INDUSTRIAL MOUNTS

Rod Clevis



Material: 05, 07, 10
Forging 13 & Up Ductile
Iron Casting

PART NUMBER	CB	CD	CE	CH	CW	F	L	A	KK	ER	LIST PRICE
CM-RC0500	0.765	1/2	1-1/2	1	1/2	1	3/4	3/4	7/16"-20	1/2	\$26.67
CM-RC0750	1.265	3/4	2-3/8	1-1/4	5/8	1-1/4	1-1/4	1-1/8	3/4"-16	3/4	56.79
CM-RC1000	1.515	1	3-1/8	1-1/2	3/4	1-1/2	1-1/2	1-5/8	1"-14	1	92.30
CM-RC1375	2.032	1-3/8	4-1/8	2	1	2	2-1/8	2	1-1/4"-12	1-3/8	186.58
CM-RC1750	2.531	1-3/4	4-1/2	2-3/8	1-1/4	2-3/8	2-1/4	2-1/4	1-1/2"-12	1-3/4	228.82
CM-RC2000	2.531	2	5-1/2	2-15/16	1-1/4	2-15/16	2-1/2	3	1-7/8"-12	2	375.91
CM-RC2500	3.032	2-1/2	6-1/2	3-1/2	1-1/2	3-1/2	3	3-1/2	2-1/4"-12	2-1/2	506.73
CM-RC3000	3.032	3	6-3/4	3-7/8	1-1/2	3-7/8	3-1/4	3-1/2	2-1/2"-12	2-3/4	854.89
CM-RC3500	4.032	3-1/2	8-1/2	5	2	5	4	4-1/2	3-1/4"-12	3-1/2	1,174.40
CM-RC4000	4.532	4	10	6-1/8	2-1/4	6-1/8	4-1/2	5-1/2	4"-12	4	1,960.92



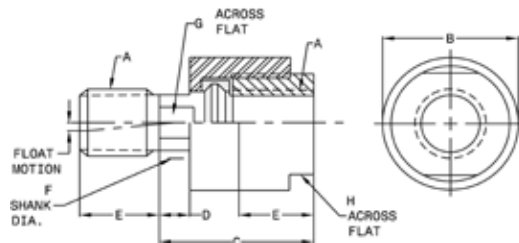
Alignment Coupler



1/16 Radial Float 2°
Spherical Motion

ALIGNMENT COUPLER	A	B	C	D	E	F	G	H	MAX PULL YIELD	LIST PRICE
CM-BD-437	7/16"-20	1-1/4	2	1/2	3/4	5/8	1/2	1	10,000	\$115.42
CM-BD-500	1/2"-20	1-1/4	2	1/2	3/4	5/8	1/2	1	14,000	115.42
CM-BD-625	5/8"-18	1-1/4	2	1/2	3/4	5/8	1/2	1	19,000	136.85
CM-BD-750	3/4"-16	1-3/4	2-5/16	1/2	1-1/8	31/32	13/16	1-1/2	34,000	104.11
CM-BD-875	7/8"-14	1-3/4	2-5/16	1/2	1-1/8	31/32	13/16	1-1/2	39,000	158.34
CM-BD-1000	1"-14	2-1/2	2-15/16	1/2	1-5/8	1-3/8	1-5/32	2-1/4	64,000	238.28
CM-BD-1250	1-1/4"-12	2-1/2	2-15/16	1/2	1-5/8	1-3/8	1-5/32	2-1/4	78,000	475.17
CM-BD-1500	1-1/2"-12	3-1/4	4-3/8	13/16	2-1/4	1-3/4	1-1/2	3	134,000	557.37
CM-BD-1750	1-3/4"-12	3-1/4	4-3/8	13/16	2-1/4	1-3/4	1-1/2	3	134,000	556.97
CM-BD-1875	1-7/8"-12	3-3/4	5-7/16	7/8	3	2	1-7/8	3-1/2	240,000	756.33

NOTE: Metric Thread Sizes Also Available



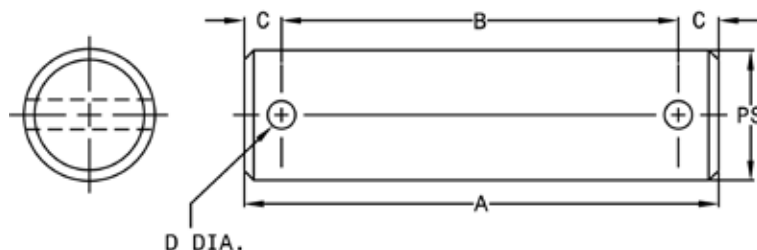
INDUSTRIAL MOUNTS

Pivot Pin



Material: 1144 Steel Nitrotec
Treated Surface

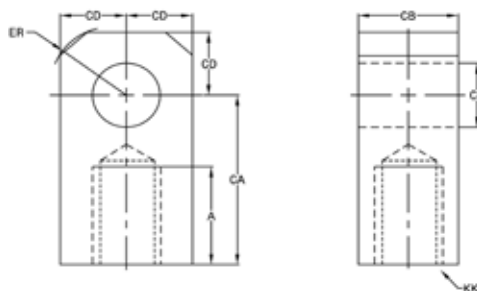
PART NUMBER	PIN SIZE	A	B	C	D	LIST PRICE
CM-PP0500	0.500	2.281	1.938	0.172	0.106	\$8.17
CM-PP0750	0.750	3.094	2.719	0.188	0.140	10.49
CM-PP1000	1.000	3.594	3.219	0.188	0.140	22.38
CM-PP1375	1.375	4.656	4.250	0.203	0.173	35.76
CM-PP1750	1.750	5.656	5.250	0.203	0.173	56.74
CM-PP2000	2.000	5.719	5.281	0.219	0.204	68.84
CM-PP2500	2.500	6.781	6.313	0.234	0.219	180.82



Material: 05 thru
13, C.F. Bar
Material: 17 thru
40, Steel Plate

Rod Eyes

PART NUMBER	A	CA	CB	CD	ER	KK	LIST PRICE
CM-RE0500	3/4	1-1/2	3/4	1/2	5/8	7/16"-20	\$23.80
CM-RE0750	1-1/8	2-1/16	1-1/4	3/4	7/8	3/4"-16	44.81
CM-RE1000	1-5/8	2-13/16	1-1/2	1	1-3/16	1"-14	73.37
CM-RE1375	2	3-7/16	2	1-3/8	1-9/16	1-1/4"-12	138.26
CM-RE1750	2-1/4	4	2-1/2	1-3/4	2	1-1/2"-12	193.72
CM-RE2000	3	5	2-1/2	2	2-1/2	1-7/8"-12	415.24
CM-RE2500	3-1/2	5-13/16	3	2-1/2	2-13/16	2-1/4"-12	1,066.74



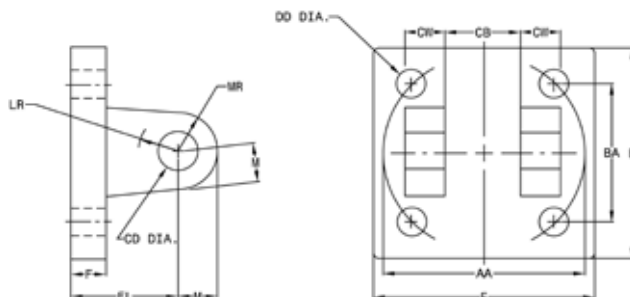
INDUSTRIAL MOUNTS



Clevis Bracket

PART NUMBER	AA	BA	CB	CD	CW	DD	E	F	FL	LR	M	MR	LIST PRICE
CM-BDCB-07	3.6	2-9/16	1.265	3/4	5/8	1/2"-20	3-1/2	5/8	1-7/8	1-1/16	3/4	1-1/16	\$159.95
CM-BDCB-10	4.6	3-1/4	1.515	1	3/4	5/8"-18	4-1/2	3/4	2-1/4	1-1/4	1	1-1/8	268.31
CM-BDCB-13	5.4	3-13/16	2.032	1-3/8	1	5/8"-18	5	7/8	3	7/8	1-3/8	1-3/4	305.38
CM-BDCB-20	8.2	5-3/4	2.531	2	1-1/4	1"-14	7-1/2	1	3-12	2-1/8	2	2-1/8	893.70

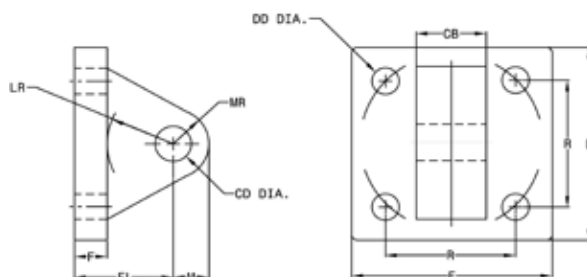
Material: Forging, Weldment, or Ductile Iron



Eye Bracket

PART NUMBER	CB	CD	DD	E	F	FL	LR	M	MR	R	LIST PRICE
CM-BDEB-05	3/4	1/2	13/32	2-1/2	3/8	1-1/8	3/4	1/2	9/16	1.63	\$40.58
CM-BDEB-07	1-1/4	3/4	17/32	3-1/2	5/8	1-7/8	1-1/4	3/4	7/8	2.56	75.02
CM-BDEB-10	1-1/2	1	21/32	4-1/2	3/4	2-1/4	1-1/2	1	1-1/4	3.25	122.46
CM-BDEB-13	2	1-3/8	21/32	5	7/8	3	2-1/8	1-3/8	1-5/8	3.81	210.46
CM-BDEB-17	2-1/2	1-3/4	29/32	6-1/2	7/8	3-1/8	2-1/4	1-3/4	2-1/8	4.95	414.98
CM-BDEB-20	2-1/2	2	1-1/16	7-1/2	1	3-1/2	2-1/2	2	2-7/16	5.75	725.57
CM-BDEB-25	3	2-1/2	1-3/16	8-1/2	1	4	3	2-1/2	3	6.59	936.31
CM-BDEB-30	3	3	1-5/16	9-1/2	1	4-1/4	3-1/4	3	3-1/4	7.50	1,137.60
CM-BDEB-40	4-1/2	4	2-1/16	14-7/8	1-15/16	6-7/16	4-1/2	4	5-1/4	11.50	4,961.61

Material: Forging, Weldment, or Ductile Iron



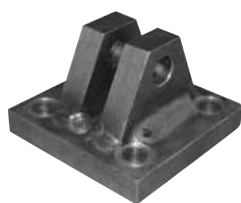
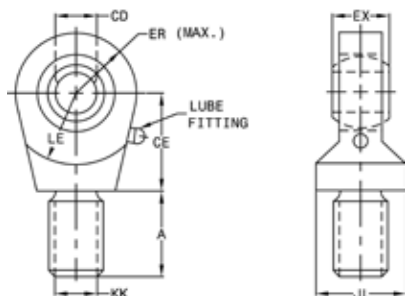
INDUSTRIAL MOUNTS



Material: Forging,
Weldment, or Ductile Iron

Spherical Rod Eye

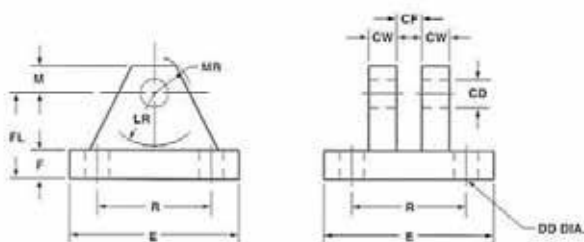
PART NUMBER	CD	A	CE	EX	ER	LE	KK	JL REF	LOAD CAP	SPACER WIDTH	LIST PRICE
CM-RES-05	0.500	11/16	7/8	7/16	7/8	3/4	7/16"-20	7/8	2,600	0.150	\$146.67
CM-RES-07	0.750	1	1-1/4	21/32	1-1/4	1-1/16	3/4"-16	1-5/16	9,400	0.250	183.61
CM-RES-10	1.000	1-1/2	1-7/8	7/8	1-3/8	1-7/16	1"-14	1-1/2	16,800	0.250	196.83
CM-RES-13	1.375	2	2-1/8	1-3/16	1-13/16	1-7/8	1-1/4"-12	2	28,600	0.375	278.74
CM-RES-17	1.750	2-1/8	2-1/2	1-17/32	2-3/16	2-1/8	1-1/2"-12	2-1/4	43,000	0.416	645.30
CM-RES-20	2.000	2-7/8	2-3/4	1-3/4	2-5/8	2-1/2	1-7/8"-12	2-3/4	70,000	0.375	861.81



Material: Steel Weldment

Spherical Clevis Brackets

PART NUMBER	E	F	M	R	CD	CF	CW	DD	FL	LR	MR	LIST PRICE
CM-CBS-0500	3.00	.50	.50	2.05	.500	.44	.50	.41	1.50	.94	.62	\$205.10
CM-CBS-0750	3.75	.62	.88	2.76	.750	.66	.62	.53	2.00	1.38	1.00	313.42
CM-CBS-1000	5.50	.75	1.00	4.10	1.000	.88	.75	.53	2.50	1.69	1.19	410.01
CM-CBS-1375	6.50	.88	1.38	4.95	1.375	1.19	1.00	.66	3.50	2.44	1.62	578.84
CM-CBS-1750	8.50	1.25	1.75	6.58	1.750	1.53	1.25	.91	4.50	2.88	2.06	855.54



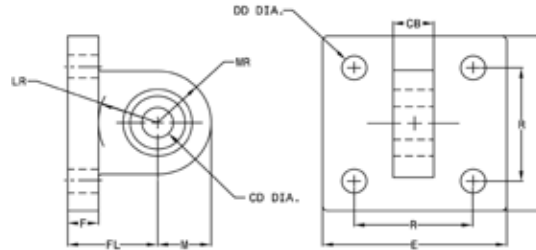
INDUSTRIAL MOUNTS, COUPLINGS AND NUTS



Spherical Eye Bracket

PART NUMBER	CB	CD	DD	E	F	FL	LR	M	MR	R	LIST PRICE
CM-BDS-07	3/4	3/4	17/32	3-1/2	5/8	1-7/8	1-1/4	1-3/16	1-3/16	2.56	\$575.25
CM-BDS-10	1	1	21/32	4-1/2	3/4	2-1/4	1-1/2	1-3/8	1-3/8	3.25	460.42
CM-BDS-13	1-3/8	1-3/8	21/32	5	7/8	3	2-1/8	2	2	3.81	747.46

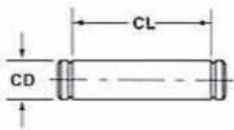
Material: Forging,
Weldment, or Ductile Iron



Pivot Pins for Spherical Clevis Brackets

PART NUMBER	CD	CL	LIST PRICE
CM-PPS0500	.4997-.0004	1 9/16	\$15.04
CM-PPS0750	.7497-.0005	2.1/32	23.29
CM-PPS1000	.9997-.0005	2 1/2	27.57
CM-PPS1375	1.3746-.0006	3 5/16	47.37
CM-PPS1750	1.7496-.0006	4 7/32	93.38
CM-PPS2000	1.9996-.0007	4 15/16	149.11

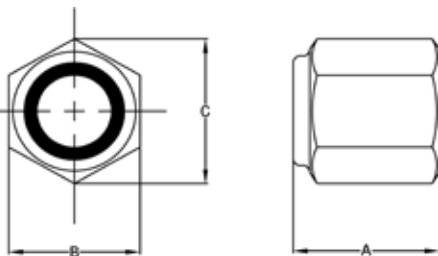
Material: CD1144
- Close tolerance on pin diameter



Nylon Insert Lock Nut

PART NUMBER	BAR SIZE	A	B	C	LIST PRICE
CM-LN45050	1/2"-20	0.60	0.75	0.84	\$6.13
CM-LN45062	5/8"-18	0.75	0.94	1.06	21.29
CM-LN45075	3/4"-16	0.88	1.06	1.19	26.67
CM-LN45087	7/8"-14	1.00	1.25	1.40	14.69
CM-LN45100	1"-14	1.06	1.44	1.62	19.90
CM-LN45101	1"-14	0.88	1.62	1.83	23.70
CM-LN45112	1-1/8"-12	1.19	1.62	1.83	27.30
CM-LN45126	1-1/4"-12	1.38	1.81	2.06	31.76
CM-LN45151	1-1/2"-12	1.62	2.19	2.44	41.72
CM-LN45152	1-1/2"-12	0.81	2.19	2.44	32.75
CM-LN45175	1-3/4"-12	1.50	2.75	3.06	80.29
CM-LN45200	2"-12	1.62	3.12	3.50	85.70
CM-LN45225	2-1/4"-12	1.94	3.50	3.94	182.49
CM-LN45226	2-1/4"-12	2.81	3.50	3.94	249.88
CM-LN45250	2-1/2"-12	2.25	4.00	4.60	395.68

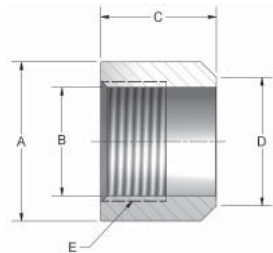
*Grade N8 (Grade C equivalent), except LN45101 is Grade N5 (Grade B equivalent)



PORTS



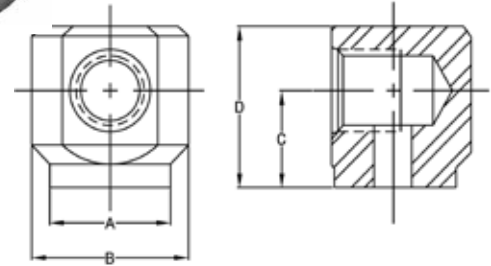
O-ring Boss Half Coupling Port



PART NUMBER	PORT SIZE	A	B	C	D	E	LIST PRICE
CM-PO65304	#4 SAE	0.88	0.389	1.00	0.570	7/16-20	\$14.19
CM-PO65305	#5 SAE	0.88	0.453	0.75	0.880	1/2-20	17.80
CM-PO65306	#6 SAE	1.00	0.508	1.00	0.690	9/16-18	14.73
CM-PO65308	#8 SAE	1.25	0.689	1.06	0.870	3/4-16	15.27
CM-PO65310	#10 SAE	1.38	0.806	1.06	0.990	7/8-14	15.10
CM-PO65312	#12 SAE	1.50	0.981	1.28	1.160	1 1/16-12	21.27
CM-PO65314	#14 SAE	1.63	1.106	1.25	1.290	1 3/16-12	24.93
CM-PO65316	#16 SAE	1.75	1.231	1.28	1.410	1 5/16-12	30.65
CM-PO65320	#20 SAE	2.25	1.544	1.28	1.720	1 5/8-12	40.30
CM-PO65324	#24 SAE	2.75	1.794	1.28	1.980	1 7/8-12	63.10

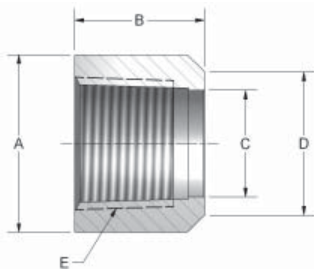


O-ring Boss 90 Degree Port



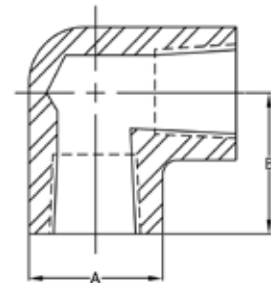
PART NUMBER	BAR SIZE	A	B	C	D	LIST PRICE
CM-PO65604	#4 SAE	0.75	1.12	0.75	1.12	\$32.54
CM-PO65606	#6 SAE	0.87	1.25	0.81	1.25	35.27
CM-PO65608	#8 SAE	1.25	1.62	1.00	1.62	38.60
CM-PO65610	#10 SAE	1.25	1.75	1.12	1.88	44.58
CM-PO65612	#12 SAE	1.50	2.12	1.19	2.00	64.42
CM-PO65616	#16 SAE	1.50	2.25	1.25	2.38	85.72

Pipe Thread Half Coupling



PART NUMBER	PORT SIZE	A	B	C	D	E	LIST PRICE
CM-PO65025	1/4" NPT	0.88	1.06	.391	.570	1/4-18	\$4.81
CM-PO65037	3/8" NPT	1.00	1.00	.520	.690	3/8-18	4.95
CM-PO65050	1/2" NPT	1.25	1.06	.650	.870	1/2-14	6.65
CM-PO65075	3/4" NPT	1.50	1.28	.850	1.160	3/4-14	7.35
CM-PO65100	1" NPT	1.75	1.28	1.050	1.410	1-11.5	14.73
CM-PO65125	1-1/4" NPT	2.25	1.28	1.420	1.720	1 1/4-11.5	26.31
CM-PO65150	1-1/2" NPT	2.75	1.28	1.560	1.980	1 1/2-11.5	31.57

Pipe Thread 90 Degree Port



PART NUMBER	PORT SIZE	A	B	LIST PRICE
CM-PO65225	1/4" NPT	0.75	1.00	\$20.02
CM-PO65237	3/8" NPT	0.88	1.00	29.84
CM-PO65250	1/2" NPT	1.12	1.25	44.55
CM-PO65275	3/4" NPT	1.38	1.38	50.83
CM-PO652751	1" NPT	1.75	1.62	55.57

NOTES

NOTES

Assortment Kits and Tools

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**Scan for:
Assortment Kits & Tools
on website**

O-RING KITS

O-RING KIT

Part Number: 568 KIT-A

List Price: \$52.34

DASH NUMBER	QTY
006 THRU 012	20
110 THRU 116	13
210 THRU 222	10
325 THRU 327	7



This kit contains a total of 382 O-Rings in 30 different sizes, providing an extremely low cost per size value.

HNBR O-RING KIT

Part Number: 568 HNBR KIT

List Price: \$82.97

PART NUMBER	QTY
568-008H	20
568-010H	20
568-011H	20
568-012H	20
568-013H	20
568-014H	20
568-015H	15
568-017H	15
568-111H	15
568-116H	15
568-118H	10
568-211H	10



This kit contains a total of 200 70A Durometer HNBR o-rings in 12 different sizes, providing an extremely low cost per size value.

O-RING METRIC KIT

Part Number: METRIC O KIT-J-A

List Price: \$84.22

I.D X C.S. (mm)	QTY	I.D X C.S. (mm)	QTY	I.D X C.S. (mm)	QTY
3 X 2.0	16	14 X 2.5	13	28 X 3.0	12
4 X 2.0	16	16 X 2.5	13	30 X 3.0	12
5 X 2.0	16	17 X 2.5	13	32 X 3.0	12
6 X 2.0	16	19 X 2.5	13	33 X 3.0	12
7 X 2.0	16	19 X 3.0	11	35 X 3.0	12
8 X 2.0	16	20 X 3.0	12	36 X 3.0	12
10 X 2.0	16	22 X 3.0	12	38 X 3.0	12
10 X 2.5	13	24 X 3.0	12	38 X 4.0	9
11 X 2.5	13	25 X 3.0	12	41 X 4.0	9
12 X 2.5	13	27 X 3.0	12	44 X 4.0	9

The Metric O-Kit J-A contains a total of 385 O-Rings in 30 different sizes, another extremely low cost per size value.



MASTER O-RING FITTING KIT

Part Number: MASTER OR FITTING KIT

List Price: \$312.04

PORT DASH SIZE	PART NUMBER	QTY	PORT DASH SIZE	PART NUMBER	QTY
SAE BOSS #4	568-904	50	ORS #8	568-014-90D	50
SAE BOSS #5	568-905	50	ORS #10	568-016-90D	50
SAE BOSS #6	568-906	50	ORS #12	568-018-90D	50
SAE BOSS #8	568-908	50	ORS #16	568-021-90D	50
SAE BOSS #10	568-910	50	ORS #20	568-025-90D	50
SAE BOSS #12	568-912	50	ORS #24	568-029-90D	40
SAE BOSS #14	568-914	40	SAE #8	568-210-90D	50
SAE BOSS #16	568-916	40	SAE #12	568-214-90D	50
SAE BOSS #20	568-920	20	SAE #16	568-219-90D	20
SAE BOSS #24	568-924	10	SAE #20	568-222-90D	20
SAE BOSS #32	568-932	10	SAE #24	568-225-90D	20
ORS #4	568-011-90D	50	SAE #32	568-228-90D	20
ORS #6	568-012-90D	50	SAE #40	568-232-90D	10



This 1000 piece assortment contains 1/16" CS, 1/8" CS, and Boss 90A Durometer NBR O-rings in 26 of the most popular fitting sizes, including O-ring face seals and SAE straight thread boss fittings. Individually separated inside of a sturdy steel case.

O-RING KITS

SAE FLANGE SEALS

Part Number: SAE FLANGE SEALS

List Price: \$54.56

BOX PART NUMBER	PART NUMBER	QTY
-8	568-210-90D	8
-12	568-214-90D	8
-16	568-219-90D	8
-20	568-222-90D	8
-24	568-225-90D	8
-32	568-228-90D	8



Fits SAE J518 code 61/62 split flanges.

FLAT FACE SEALS

Part Number: FLAT FACE O-RINGS

List Price: \$57.79

BOX PART NUMBER	PART NUMBER	QTY
-4	568-011-90D	8
-6	568-012-90D	8
-8	568-014-90D	8
-10	568-016-90D	8
-12	568-018-90D	8
-16	568-021-90D	8
-20	568-025-90D	8
-24	568-029-90D	8



Fits SAE O-ring face seal fittings.

BOSS & TUBE SEALS

Part Number: BOSS-TUBE FITTINGS-1

List Price: \$39.86

Part Number: BOSS-TUBE FITTINGS-2

List Price: \$56.98

BOX PART NUMBER	PART NUMBER	QTY	KIT NUMBER
-2	568-902	8	FITTINGS-1
-3	568-903	8	FITTINGS-1
-4	568-904	8	FITTINGS-1
-5	568-905	8	FITTINGS-1
-6	568-906	8	FITTINGS-1
-8	568-908	8	FITTINGS-1
-10	568-910	8	FITTINGS-1
-12	568-912	8	FITTINGS-1
-14	568-914	8	FITTINGS-1
-16	568-916	8	FITTINGS-2
-20	568-920	8	FITTINGS-2
-24	568-924	8	FITTINGS-2
-32	568-932	8	FITTINGS-2

Fits SAE Boss straight thread tube fittings.



HOSE END & ADAPTER KIT

Part Number: O-R FITTING KIT

List Price: \$222.43

This handy kit contains 27 sizes and 216 pieces of 90A Durometer O-rings for boss, split flange, and flat face hose end fittings and adapters. Each box has a graphic label identifying the type of application and dash number for the seal. A chart on the back of the box lists popular OEM part number matches for each O-ring.



Part Number: O-R FITTING KIT-V

List Price: \$485.99

This handy kit contains 27 sizes and 216 pieces of 90A Durometer O-rings for boss, split flange, and flat face hose end fittings and adapters. Each box has a graphic label identifying the type of application and dash number for the seal. A chart on the back of the box lists popular OEM part number matches for each O-ring.



O-RING KITS

SAE 900 O-RING BOSS FLUOROCARBON KIT

Part Number: 900 BOSS FC
List Price: \$289.12

PART NUMBER	QTY	SAE PORT SIZE
568-901V	10	-1
568-902V	10	-2
568-903V	10	-3
568-904V	10	-4
568-905V	12	-5
568-906V	12	-6
568-907V	12	-7
568-908V	12	-8
568-909V	12	-9
568-910V	12	-10
568-911V	10	-11
568-912V	10	-12
568-913V	10	-13
568-914V	10	-14
568-916V	10	-16
568-918V	10	-18
568-920V	10	-20
568-924V	10	-24
568-928V	10	-28
568-932V	10	-32



This 212 piece assortment contains the most popular size 90 Durometer FKM Boss O-rings in 20 different fitting sizes, individually separated, which will supply your shop, service truck, or parts counter with the sizes you need!

SAE J514 O-RING BOSS KIT

Part Number: 900 BOSS KIT
List Price: \$54.86

PART NUMBER	QTY	SAE PORT SIZE
568-901	10	-1
568-902	10	-2
568-903	10	-3
568-904	10	-4
568-905	12	-5
568-906	12	-6
568-907	12	-7
568-908	12	-8
568-909	12	-9
568-910	12	-10
568-911	10	-11
568-912	10	-12
568-913	10	-13
568-914	10	-14
568-916	10	-16
568-918	10	-18
568-920	10	-20
568-924	10	-24
568-928	10	-28
568-932	10	-32



This 212 piece assortment contains the most popular size 90 Durometer Boss O-rings in 20 different fitting sizes, individually separated, which will supply your shop, service truck, or parts counter with the sizes you need!

O-RING FACE KIT

Part Number: 568 FACE KIT
List Price: \$49.17

DASH NUMBER	FITTING	QTY
011-90D	#4	25
012-90D	#6	25
014-90D	#8	25
016-90D	#10	25
018-90D	#12	20
021-90D	#16	15
025-90D	#20	10
029-90D	#24	10



This kit contains a total of 155 90 Durometer O-Rings in 8 different sizes, providing an extremely low cost per size value.

SAE CODE 61 & 62 O-RING FLANGE KIT

Part Number: 568 FLANGE KIT
List Price: \$57.85

DASH NUMBER	FITTING	QTY
210-90D	1/2"	10
214-90D	3/4"	10
219-90D	1"	10
222-90D	1-1/4"	10
225-90D	1-1/2"	10
228-90D	2"	10
232-90D	2-1/2"	10



This kit contains a total of 70, 90 Durometer O-Rings, in 7 different sizes, providing an extremely low cost per size value.

O-RING KITS

SPLIT FLANGE SEAL KIT

Part Number: SFS KIT

List Price: \$156.02

PART NUMBER	Flange Size	Replaces O-Ring No.	Outside Diam.	QTY
SFS-8	1/2"	-210	1.005	5
SFS-12	3/4"	-214	1.255	5
SFS-16	1"	-219	1.565	5
SFS-20	1-1/4"	-222	1.755	5
SFS-24	1-1/2"	-225	2.125	5
SFS-32	2"	-228	2.500	5
SFS-40	2-1/2"	-232	3.005	5



This kit contains 35 seals in 7 popular sizes for SAE J518 4-Bolt code 61 and code 62 split flanges.

U.S. INDUSTRIAL O-RING KIT

Part Number: 568 KIT

List Price: \$64.68

DASH NUMBER	QTY
005 THRU 011	25
012	15
013 THRU 018	10
110	15
111 THRU 116	10
117 THRU 121	7
210 THRU 211	10
212 THRU 219	7



This kit contains a total of 436 70 Durometer O-Rings in 36 different sizes, providing an extremely low cost per size value.

QUAD RING KIT

Part Number: QUAD-RING KIT

List Price: \$159.27

DASH NUMBER	QTY
4005 THRU 4012	10
4013 THRU 4016	6
4017 THRU 4018	5
4110 THRU 4116	6
4117 THRU 4121	4
4210 THRU 4219	5



The Quad-Ring Kit contains 226 four-lobed seals in 36 popular sizes along with a contents identification card. The Quad Seals are molded from a premium quality 70 durometer Nitrile (Buna-N) compound. Quad Seal sizes correspond to AS568 O-Ring sizes.

QUAD WAREHOUSE KIT

Part Number: QUAD-RING WH KIT

List Price: \$535.63

DASH NUMBER	QTY
4004 THRU 4012	10
4013 THRU 4030	5
4031 THRU 4038	3
4039 THRU 4048	2
4108 THRU 4116	10
4117 THRU 4124	5
4125 THRU 4135	3
4136 THRU 4154	2
4204 THRU 4216	5
4217 THRU 4229	3
4230 THRU 4338	2



Similar to the O-Ring Warehouse kit, the Quad Seal Warehouse kit contains a total of 583 four-lobed seals in 145 different sizes. This kit is ideal for the small distributor who wishes to have a comprehensive on-hand inventory of Quad seals for counter sales.

O-RING KITS

90 DUROMETER O-RING KIT

Part Number: 568 90D KIT

List Price: \$92.12

DASH NUMBER	QTY
005 THRU 011-90D	25
012-90D	15
013 THRU 018-90D	10
110-90D	15
111 THRU 116-90D	10
117 THRU 121-90D	7
210 THRU 211-90D	10
212 THRU 219-90D	7

This kit contains a total of 436 90 Durometer O-Rings in 36 different sizes, providing an extremely low cost per size value.



PTFE O-RING KIT

Part Number: 568 PTFE KIT

List Price: \$159.46

DASH NUMBER	QTY
005 THRU 012T	15
013 THRU 018T	10
110 THRU 116T	10
117 THRU 121T	5
210 THRU 219T	5

This kit contains a total of 325 PTFE O-Rings (55 - 58 Shore D) in 36 different sizes. PTFE O-Rings can withstand temperatures up to 500° F and are impervious to a wide range of chemicals.



FLUOROCARBON O-RING KIT

Part Number: 568 FC KIT

List Price: \$411.19

DASH NUMBER	QTY
005 THRU 011V	25
012V	15
013 THRU 018V	10
110V	15
111 THRU 116V	10
117 THRU 121V	7
210 THRU 211V	10
212 THRU 219V	7

This kit contains a total of 436 75 Durometer Fluorocarbon O-Rings in 36 different sizes, providing an extremely low cost per size value.



FLUOROCARBON O-RING KIT

Part Number: 568 FC KIT-A

List Price: \$182.05

DASH NUMBER	QTY
006 THRU 012	10
110 THRU 114	10
115 THRU 116	5
210 THRU 214	5
216 THRU 222	2
325 THRU 327	2

This kit contains a total of 180 75 Shore A fluorocarbon o-rings in 30 different sizes.



VITON KIT

Part Number: METRIC O KIT-V

List Price: \$160.71

I.D.	C.S	QTY	I.D.	C.S	QTY	I.D.	C.S	QTY
5.00	1.50	20	9.00	2.00	15	19.00	2.00	10
2.20	1.60	20	10.00	2.00	15	20.00	2.00	10
3.10	1.60	20	12.00	2.00	15	10.00	2.50	10
4.10	1.60	20	4.30	2.40	15	13.00	2.50	10
7.10	1.60	20	5.30	2.40	15	14.00	2.50	10
4.00	2.00	20	5.60	2.40	15	15.00	2.50	10
6.00	2.00	20	7.60	2.40	15	17.00	2.50	10
13.00	1.50	15	8.30	2.40	15	18.00	2.50	10
9.10	1.60	15	8.60	2.40	15	19.00	2.50	10
10.10	1.60	15	16.00	1.50	10	9.00	3.00	10
13.10	1.60	15	14.00	2.00	10	10.00	3.00	10
8.00	2.00	15	16.00	2.00	10	11.00	3.00	10

This 500 piece kit contains 75 Shore A fluorocarbon o-rings in 36 metric sizes.



O-RING KITS

O-RING WAREHOUSE KIT

Part Number: 568 WH KIT

List Price: \$804.54

DASH NUMBER	QTY	DASH NUMBER	QTY	DASH NUMBER	QTY
001 THRU 016	20	125 THRU 142	5	325 THRU 328	5
017 THRU 024	10	143 THRU 146	3	329 THRU 330	4
025 THRU 031	7	147 THRU 151	2	331 THRU 338	2
032 THRU 043	5	210 THRU 216	10	901 THRU 914	5
044 THRU 046	2	217 THRU 229	5	916, 918	5
110 THRU 116	15	230 THRU 232	3	920, 924	5
117 THRU 124	10	233 THRU 237	2	928, 932	5

Our O-ring Warehouse kit is ideally suited for the repair shop that needs a large on-hand selection of O-rings to ensure quick repair of all machine types. 1,110 O-Rings in 150 different sizes are included in this kit. Each size is individually packaged in heavy duty ziploc bags to protect against environmental exposure and contamination. All packages are then stored in a sturdy styrene cabinet with pull-out drawers for easy access to parts. Included card shows size, dimensions, and drawer location for each ring.



90 DUROMETER O-RING WAREHOUSE KIT

Part Number: 568 WH KIT-90D

List Price: \$754.11

DASH NUMBER	QTY	DASH NUMBER	QTY
001 THRU 016-90D	20	217 THRU 229-90D	5
017 THRU 024-90D	10	230 THRU 232-90D	3
025 THRU 031-90D	7	233 THRU 237-90D	2
032 THRU 043-90D	5	325 THRU 328-90D	5
044 THRU 046-90D	2	329 THRU 330-90D	4
110 THRU 116-90D	15	331 THRU 338-90D	2
117 THRU 124-90D	10	901 THRU 914-90D	5
125 THRU 142-90D	5	916, 918-90D	5
143 THRU 146-90D	3	920, 924-90D	5
147 THRU 151-90D	2	928, 932-90D	5
210 THRU 216-90D	10		

Our 90 Durometer O-ring Warehouse kit is ideally suited for the repair shop that needs a large on-hand selection of O-Rings to insure quick repair of all machine types. 1,110 O-Rings in 150 different sizes are included in this kit.



FLUOROCARBON O-RING WAREHOUSE KIT

Part Number: 568 WH KIT-FC

List Price: \$1,085.69

DASH NUMBER	QTY	DASH NUMBER	QTY	DASH NUMBER	QTY
001 THRU 016V	20	125 THRU 142V	5	325 THRU 328V	5
017 THRU 024V	10	143 THRU 146V	3	329 THRU 330V	4
025 THRU 031V	7	147 THRU 151V	2	331 THRU 338V	2
032 THRU 043V	5	210 THRU 216V	10	901 THRU 914V	5
044 THRU 046V	2	217 THRU 229V	5	916V, 918V	5
110 THRU 116V	15	230 THRU 232V	3	920V, 924V	5
117 THRU 124V	10	233 THRU 237V	2	928V, 932V	5

Our 75 Durometer Fluorocarbon O-ring Warehouse kit is ideally suited for the repair shop that needs a large on-hand selection of O-rings to ensure quick repair of all machine types. 1,110 O-Rings in 150 different sizes are included in this kit. Each size is individually packaged in heavy duty ziploc bags to protect against environmental exposure and contamination. All packages are then stored in a sturdy styrene cabinet with pull-out drawers for easy access to parts. Included card shows size, dimensions, and drawer location for each ring.



O-RING KITS

MAX O-RING KIT

Part Number: MAX 1381 KIT
List Price: \$550.67

Part Number: MAX 1381 KIT-90D
List Price: \$630.38



These sturdy kits, packaged in a heavy duty box, contain 1415 O-Rings in the most popular sizes. Every service truck should have one of these. Five internal boxes contain 1/16" C/S, 3/32" C/S, 1/8" C/S, Boss, and Flange fitting o-rings. Contents and quantities are listed below.

Flange Seals

DASH NUMBER	QTY
8	10
12	10
16	10
20	5
24	5
32	5

Boss O-Rings

DASH NUMBER	QTY
903	15
904	25
905	15
906	25
908	25
910	25
912	15
916	10

1/16" C/S O-Rings

DASH NUMBER	QTY
006 THRU 018	25
019 THRU 021	20
022 THRU 026	15
028	15
029	10
030	10

1/8" C/S O-Rings

DASH NUMBER	QTY
210 THRU 214	20
215 THRU 222	15
223 THRU 224	10
226	10
228	10
232	10
236	10

3/32" C/S O-Rings

DASH NUMBER	QTY
109 THRU 118	25
119 THRU 120	20
121 THRU 127	15
128	10
129	10
131	10
133	10
135	5

O-RING KITS

COMMON JAPANESE SIZE O-RINGS IN 70 DUROMETER

Part Number: METRIC O KIT-J

List Price: \$101.44

I.D.	C.S.	QTY	I.D.	C.S.	QTY
2.8	1.9	25	20.8	2.4	8
3.8	1.9	20	21.8	2.4	8
4.8	1.9	20	24.4	3.1	6
5.8	1.9	20	29.4	3.1	7
6.8	1.9	15	21.7	3.5	5
7.8	1.9	15	22.1	3.5	5
8.8	1.9	15	23.7	3.5	7
9.8	1.9	15	24.7	3.5	7
9.8	2.4	15	25.2	3.5	7
10.8	2.4	15	25.7	3.5	7
11.0	2.4	15	27.7	3.5	7
11.8	2.4	12	28.7	3.5	6
12.8	2.4	12	29.2	3.5	6
13.8	2.4	12	29.7	3.5	6
14.8	2.4	12	30.7	3.5	6
15.8	2.4	12	31.2	3.5	6
17.8	2.4	8	14.5	4.0	4
19.8	2.4	8	23.5	4.0	6



This 380 piece kit contains the most popular Japanese Industrial metric O-ring sizes.

COMMON EUROPEAN SIZE O-RINGS IN 70 DUROMETER

Part Number: METRIC O KIT-E

List Price: \$77.50

I.D.	C.S.	QTY	I.D.	C.S.	QTY
5.0	1.5	20	19.0	2.0	10
13.0	1.5	15	20.0	2.0	10
16.0	1.5	10	4.3	2.4	15
2.2	1.6	20	5.3	2.4	15
3.1	1.6	20	5.6	2.4	15
4.1	1.6	20	7.6	2.4	15
7.1	1.6	20	8.3	2.4	15
9.1	1.6	15	8.6	2.4	15
10.1	1.6	15	10.0	2.5	10
13.1	1.6	15	13.0	2.5	10
4.0	2.0	20	14.0	2.5	10
6.0	2.0	20	15.0	2.5	10
8.0	2.0	15	17.0	2.5	10
9.0	2.0	15	18.0	2.5	10
10.0	2.0	15	19.0	2.5	10
12.0	2.0	15	9.0	3.0	10
14.0	2.0	10	10.0	3.0	10
16.0	2.0	10	11.0	3.0	10



This 500 piece kit contains the most popular European metric O-ring sizes.

O-RING KITS

COMMON JAPANESE SIZE O-RINGS IN 90 DUROMETER

Part Number: METRIC O KIT-J-90D

List Price: \$246.86

I.D.	C.S.	QTY	I.D.	C.S.	QTY
2.8	1.9	25	20.8	2.4	8
3.8	1.9	20	21.8	2.4	8
4.8	1.9	20	24.4	3.1	6
5.8	1.9	20	29.4	3.1	7
6.8	1.9	15	21.7	3.5	5
7.8	1.9	15	22.1	3.5	5
8.8	1.9	15	23.7	3.5	7
9.8	1.9	15	24.7	3.5	7
9.8	2.4	15	25.2	3.5	7
10.8	2.4	15	25.7	3.5	7
11.0	2.4	15	27.7	3.5	7
11.8	2.4	12	28.7	3.5	6
12.8	2.4	12	29.2	3.5	6
13.8	2.4	12	29.7	3.5	6
14.8	2.4	12	30.7	3.5	6
15.8	2.4	12	31.2	3.5	6
17.8	2.4	8	14.5	4.0	4
19.8	2.4	8	23.5	4.0	6



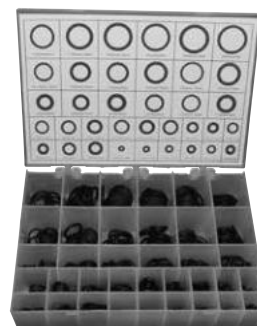
This 380 piece kit contains the most popular Japanese Industrial metric O-ring sizes in 90 durometer NBR.

COMMON EUROPEAN SIZE O-RINGS IN 90 DUROMETER

Part Number: METRIC O KIT-E-90D

List Price: \$263.80

I.D.	C.S.	QTY	I.D.	C.S.	QTY
5.0	1.5	20	19.0	2.0	10
13.0	1.5	15	20.0	2.0	10
16.0	1.5	10	4.3	2.4	15
2.2	1.6	20	5.3	2.4	15
3.1	1.6	20	5.6	2.4	15
4.1	1.6	20	7.6	2.4	15
7.1	1.6	20	8.3	2.4	15
9.1	1.6	15	8.6	2.4	15
10.1	1.6	15	10.0	2.5	10
13.1	1.6	15	13.0	2.5	10
4.0	2.0	20	14.0	2.5	10
6.0	2.0	20	15.0	2.5	10
8.0	2.0	15	17.0	2.5	10
9.0	2.0	15	18.0	2.5	10
10.0	2.0	15	19.0	2.5	10
12.0	2.0	15	9.0	3.0	10
14.0	2.0	10	10.0	3.0	10
16.0	2.0	10	11.0	3.0	10



This 500 piece kit contains the most popular European metric O-ring sizes in 90 durometer NBR.

O-RING SPLICE KITS

O-RING SPLICE KIT INCH SIZES

Part Number: 568 SPLICE KIT
List Price: \$78.23

Kit Contains:

1. Stock of 70 Durometer Buna O-ring Cord*
2. Razor Blade
3. Splicing tool
4. Tube of Adhesive

Replacement Parts

Parts:	List Price
568 SPLICE TOOL	\$15.49 ea
568 ADHESIVE	\$11.99 ea
70 Duro. Cord	



***Cross Sections:** 1/16"(.070), 3/32"(.103), 1/8"(.139), 3/16"(.210), 1/4"(.275).
Length: 7 Feet Each

O-RING SPLICE KIT INCH & METRIC SIZES

Part Number: MET/INCH SPLICE KIT
List Price: \$138.59

This kit can produce O-Rings of any standard inch size cross-section plus a wide variety of metric sizes. Each kit contains quick drying adhesive, cutting and splicing jig, razor blade, and 14 lengths of 70 Durometer Buna-N cord stock as follows:

Inch cross-sections: (inch)

1/16" (.070), 3/32" (.103), 1/8" (.139),
3/16" (.210), 1/4" (.275)

Metric cross-sections: (mm)

1.6, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 5.7, 8.4

Length: 1 Meter Each



These kits can produce O-Rings of any circumference. The 568 kit contains the most popular inch cross sectional sized O-ring cord. The Metric and Inch Kit has both standard inch size cross sectional cord plus a wide variety of metric sized cord. Both kits contain quick drying adhesive, a cutting and splicing jig, a razor blade and 70 Durometer Buna-N cord.

FLUOROCARBON O-RING SPLICE KIT INCH SIZES

Part Number: 568 FC SPLICE KIT
List Price: \$285.10

Kit Contains:

1. Stock of 75 Durometer Fluorocarbon Cord*
2. Razor Blade
3. Splicing tool
4. Tube of Adhesive

Replacement Parts

Parts:	List Price
568 SPLICE TOOL	\$15.49 ea
568 ADHESIVE	\$11.99 ea
75 Duro. Fluorocarbon Cord	



***Cross Sections:** 1/16" (.070), 3/32"(.103), 1/8"(.139), 3/16"(.210),
1/4"(.275). **Length:** 7 Feet Each

BACK-UP RING KITS

574 BACK-UP RING KIT

Part Number: 574 KIT

List Price: \$137.14

PART NUMBER	QTY	PART NUMBER	QTY
574-005	10	574-114	10
574-006	10	574-115	10
574-007	10	574-116	10
574-008	10	574-117	5
574-009	10	574-118	5
574-010	10	574-119	5
574-011	10	574-120	5
574-012	10	574-121	5
574-013	10	574-210	7
574-014	10	574-211	7
574-015	10	574-212	7
574-016	10	574-213	7
574-017	10	574-214	5
574-018	10	574-215	5
574-110	10	574-216	5
574-111	10	574-217	5
574-112	10	574-218	5
574-113	10	574-219	5



This 293 piece kit contains 36 of the most popular size "Parback®" Style Dished Cross Section back-up rings. Molded of 90A Durometer Buna-N Rubber, they stretch for installation and return quickly to their original size. SIZES CORRESPOND TO O-RING NUMBERS. Your shop and service truck should not be without this handy kit.

575 BACK-UP RING KIT

Part Number: 575 KIT

List Price: \$301.20

PART NUMBER	QTY	PART NUMBER	QTY
575-111	25	575-216	25
575-112	25	575-217	15
575-113	25	575-218	15
575-114	25	575-219	15
575-115	25	575-220	15
575-116	25	575-221	15
575-210	25	575-222	15
575-211	25	575-223	15
575-212	25	575-224	15
575-213	25	575-325	10
575-214	25	575-326	10
575-215	25	575-327	10



This 475 piece kit contains 24 of the most popular size urethane back-up rings. This assortment is essential for parts counters, shop use, and service trucks.

PTFE BACK-UP RING KIT

Part Number: 575 PTFE KIT S

List Price: \$312.68

PART NUMBER	QTY	PART NUMBER	QTY
575-005ST	15	575-114ST	10
575-006ST	15	575-115ST	10
575-007ST	15	575-116ST	10
575-008ST	15	575-117ST	5
575-009ST	15	575-118ST	5
575-010ST	15	575-119ST	5
575-011ST	15	575-120ST	5
575-012ST	15	575-121ST	5
575-013ST	10	575-210ST	5
575-014ST	10	575-211ST	5
575-015ST	10	575-212ST	5
575-016ST	10	575-213ST	5
575-017ST	10	575-214ST	5
575-018ST	10	575-215ST	5
575-110ST	10	575-216ST	5
575-111ST	10	575-217ST	5
575-112ST	10	575-218ST	5
575-113ST	10	575-219ST	5

This 325 piece kit contains 36 of the most popular size PTFE Back-up Rings. These rings are compatible with all hydraulic fluids, since they are virtually chemically inert, and can be used in applications involving elevated operating temperatures. These rings are scarf cut to facilitate installation.



RETAINER RING KITS

SPIRAL WOUND

Part Number: SRR KIT

List Price: \$387.05

PART NUMBER	QTY.	PART NUMBER	QTY.
WHM-050	12	WSM-050	12
WHM-062	12	WSM-062	12
WHM-075	12	WSM-075	12
WHM-087	12	WSM-087	12
WHM-100	12	WSM-100	12
WHM-112	12	WSM-112	12
WHM-125	12	WSM-125	12
WHM-137	12	WSM-137	12
WHM-150	12	WSM-150	12



EATON

Part Number: ERR KIT

List Price: \$494.48

PART NUMBER	QTY.	PART NUMBER	QTY.
NAN-050	12	XAN-050	12
NAN-062	12	XAN-062	12
NAN-075	12	XAN-075	12
NAN-087	12	XAN-087	12
NAN-100	12	XAN-100	12
NAN-112	12	XAN-112	12
NAN-125	12	XAN-125	12
NAN-137	12	XAN-137	12
NAN-150	12	XAN-150	12



Each kit contains: 18 sizes - 9 internal, 9 external • 216 rings per box • 12 rings per size

Each kit has an assortment of retainer rings (Spiral and Eaton style) packed in a reusable plastic box. All rings are made in the USA from carbon spring steel.

EXTERNAL RETAINER RINGS

Part Number: 310 KIT

List Price: \$131.02

PART NUMBER	SHAFT SIZE	QTY.	PART NUMBER	SHAFT SIZE	QTY.
310-100	1.000	5	310-200	2.000	5
310-125	1.250	5	310-225	2.250	5
310-137	1.375	5	310-250	2.500	5
310-150	1.500	5	310-275	2.750	3
310-175	1.750	5	310-300	3.000	3



This assortment contains the most popular size retainer rings commonly used in many applications such as pumps, motors, and forklift cylinders. Boxed in a handy storage and display case, which will supply your shop, service truck, or parts counter with the sizes you need!

INTERNAL RETAINER RINGS

Part Number: 300 KIT

List Price: \$280.29

PART NUMBER	BORE SIZE	QTY.	PART NUMBER	BORE SIZE	QTY.
300-075	0.750	10	300-200	2.000	10
300-087	0.875	10	300-225	2.250	5
300-100	1.000	10	300-250	2.500	5
300-112	1.125	10	300-275	2.750	5
300-125	1.250	10	300-300	3.000	5
300-137	1.375	10	300-350	3.500	5
300-150	1.500	10	300-400	4.000	5
300-162	1.625	10	300-450	4.500	2
300-175	1.750	10	300-500	5.000	2



ASSORTMENT KITS

CAT® D-RING KIT

Part Number: CTC-4C4784

List Price: \$248.19

PART NUMBER	ID	QTY.
1P3700	19.0	10
1P3702	25.4	10
1P3703	31.9	10
1P3704	38.2	10
1P3705	44.7	10
1P3706	51.1	10
1P3707	54.2	10
1P3708	57.4	5
1P3709	63.9	5



This handy kit, in an unbreakable box, contains the 9 most popular sized D-Rings used on Caterpillar® equipment.

CAT® SILICONE O-RING KIT

Part Number: CTC-4C8253

List Price: \$668.59

PART NUMBER	QTY.	PART NUMBER	QTY.
8M4986	10	8M4992	3
8M8157	5	8M4443	3
8M4437	10	9M9647	3
8M4438	5	8M5010	3
8M4389	5	1S0004	5
8M8283	3	9H6067	5
8M5252	3	9M4849	5
8M5661	3	8M4991	3
8M8515	5	2S2251	5
8M4432	5	8M4390	3
8M5248	5	8M4435	5
8M5254	5	8M4445	5
9M7002	3	8M4446	5
8M4436	3	8M4988	5
8M4987	10	8M4990	3
8M5249	5	6L1651	3



This handy kit, in an unbreakable box, contains 149 silicone o-rings in the 32 most popular sizes used on Caterpillar® equipment.

CAT® FLANGE KIT

Part Number: CTC-2701545

List Price: \$64.44

PART NUMBER	QTY.
4J0524	10
4J0527	10
4J0522	10
4J5267	10
4J5140	10
4J0520	10



This handy kit contains the 6 most popular sized flange seals o-rings used on Caterpillar® equipment.

CAT® NITRILE O-RING KIT

Part Number: CTC-4C4782

List Price: \$419.37

PART NUMBER	QTY.	PART NUMBER	QTY.
4J0527	10	3D2824	20
4J7533	20	2S4078	20
7J0204	20	4J0524	15
3J7354	20	6V9746	20
1J9671	20	5K9090	20
3J1907	20	6V8400	20
4K1388	20	8T0315	20
4J0526	10	6K6307	20
4J0522	15	4J0523	15
4J0520	15	4J5477	20
4J5267	20	6V8397	20
2M9780	20	6V8398	20
7M8485	20	7J9108	20
4J0525	10	3K0360	20
4J0519	15	304606	20
4J5140	20		



This handy kit, in an unbreakable box, contains 570 nitrile o-rings in the 32 most popular sizes used on Caterpillar® equipment.

ASSORTMENT KITS

JOHN DEERE O-RING KIT

Part Number: JD-32X451

List Price: \$95.60

This John Deere O-Ring kit contains a total of 451 components, 70 Shore A and 90 Shore A O-rings. OEM parts numbered for easy reference.

CONTENTS OF KIT

- 160 flat-face fittings
- 291 low pressure fittings



PART NUMBER	QTY.	PART NUMBER	QTY.
R26976	20	T76938*	20
R27490	20	R495R	10
A4365R	20	R27149	10
T77814*	20	A4730R*	10
T77613*	20	T78612*	20
T77857*	20	A3606R	10
F3353R	13	R1225R	10
P46051	13	R29463	10
R394R	13	U12037	10
R459R	13	T78784*	20
T77932*	20	R30319	10
R34404	13	U10289	10
T77858*	20	T11220	10
P47889	13	R31378	10
32240	13	B3690R	10
B2762R	10	P50631	10

* Used for ORS fittings.

JOHN DEERE O-RING KIT

Part Number: JD-AT264180

List Price: \$98.04

This John Deere O-Ring kit contains a total of 82 components, 70 Shore A NBR and 90 Shore A fluorocarbon o-rings. OEM parts numbered for easy reference.



PART NUMBER	QTY.	PART NUMBER	QTY.
0443803	8	4292384	6
0460601	6	4297379	8
4138938	2	4297380	8
4187308	4	4297381	4
4187328	8	4366517	2
4187329	6	4366528	2
4292382	4	971489	4
4292383	8	A810075	2

JOHN DEERE O-RING KIT

Part Number: JD-AT85197

List Price: \$38.68

PART NUMBER	FITTING.	QTY.
T77814	#4	10
T77613	#6	12
T77857	#8	12
T77932	#10	12
T77858	#12	12
T76938	#16	12
T78612	#20	5
T78784	#24	5

This kit contains a total of 80, 90 Durometer o-rings in 8 popular sizes used on John Deere equipment.



KOMATSU O-RING KIT

Part Number: KOM-30-KU-90

List Price: \$470.08

This handy kit, in an unbreakable box, contains 74 21T series o-rings & 165 07000-1 series o-rings in the most popular sizes used on Komatsu equipment.



PART NUMBER	QTY.	PART NUMBER	QTY.	PART NUMBER	QTY.
21T-09-11410	10	07000-12010	10	07000-13025	7
21T-09-11420	8	07000-12011	10	07000-13028	7
21T-09-11430	7	07000-12012	10	07000-13030	7
21T-09-11440	7	07000-12014	10	07000-13032	7
21T-09-11450	7	07000-12015	10	07000-13035	7
21T-09-11460	7	07000-12016	10	07000-13038	5
21T-09-11470	7	07000-12018	10	07000-13040	9
21T-09-11480	7	07000-12020	10	07000-13042	7
21T-09-11490	7	07000-12055	8	07000-13045	7
21T-09-11510	7	07000-13022	7	07000-13048	7

ASSORTMENT KITS

THE ULTIMATE NITRILE O-RING ASSORTMENT

Part Number: 568 KIT-ULTIMATE

List Price: \$ 5,723.01



Includes: 12 drawers and 3 slide racks, plus base. Total weight 232 lbs.

214 Items, 1324 Pieces.

Sizes Include:

-001 THRU -010

-012 THRU -050

-106 THRU -163

-204 THRU -262

-314 THRU -355

-425 THRU -429

3 racks - each one is: 20" wide x 15-3/4" deep x 15" high

1 base - 20-3/8" wide x 16" deep x 15-1/8" high

Approximately 61" from top to bottom

THE ULTIMATE FLUOROCARBON O-RING ASSORTMENT

Part Number: 568 FC KIT-ULTIMATE

List Price: \$ 12,102.21



Includes: 12 drawers and 3 slide racks, plus base. Total weight 232 lbs.

214 Items, 1324 Pieces.

Sizes Include:

-001 THRU -010

-012 THRU -050

-106 THRU -163

-204 THRU -262

-314 THRU -355

-425 THRU -429

3 racks - each one is: 20" wide x 15-3/4" deep x 15" high

1 base - 20-3/8" wide x 16" deep x 15-1/8" high

Approximately 61" from top to bottom

ASSORTMENT KITS

COTTER PIN KIT

Part Number: COTTER PIN KIT

List Price: \$58.01

	1/8" X 1" 150 pcs.	3/32" X 1" 150 pcs.
	1/8" X 1-1/4" 75 pcs.	3/32" X 1-1/2" 100 pcs.
	1/8" X 2" 50 pcs.	5/32" X 2-1/2" 30 pcs.

555 Pieces



WOODRUFF KEY KIT

Part Number: WOODRUFF KEYS KIT

List Price: \$129.39

	1/8" X 1/2" No. 3 16 pcs.	1/8" X 5/8" No. 5 15 pcs.
	3/32" X 5/8" No. 6 15 pcs.	3/16" X 3/4" No. 9 10 pcs.
	1/4" X 7/8" No. A 5 pcs.	1/4" X 1" No. 15 4 pcs.

65 Pieces



GREASE FITTING KIT

Part Number: GREASE FITTING KIT

List Price: \$87.90

	1/8" NPT Straight 6 pcs.	1/4" - 28 Straight 6 pcs.
	3/16" Drive Straight 4 pcs.	1/8" NPT 45 1/8" NPT 90 3 pcs. ea.
	1/4" - 28 45 1/4" - 28 90 3 pc. ea.	5/16" Drive Straight 4 pcs.

32 Pieces



GREASE FITTING KIT-A

Part Number: GREASE FITTING KIT-A

List Price: \$63.73

	1/8" PT Straight 25 pcs.	1/8" PT 45° 1/8" PT 90° 1/8" PT 7.5° 5 pcs.
	1/4"-28 PT Straight 50 pcs.	1/4"-28 PT 45° 1/4"-28 PT 90° 5 pcs.

100 Pieces



NYLON PLUG KIT

Part Number: NYLON PLUG KIT

List Price: \$200.62



	Nyplug-125-125 1/8" x 1/8" 20 pcs.	Nyplug-187-109 3/16" x 7/64" 20 pcs.	Nyplug-250-125 1/4" x 1/8" 20 pcs.	
	Nyplug-125-156 1/8" x 5/32" 20 pcs.	Nyplug-187-187 3/16" x 3/16" 20 pcs.	Nyplug-250-187 1/4" x 3/16" 20 pcs.	Nyplug-312-125 5/16" x 1/8" 20 pcs.
	Nyplug-125-875 1/8" x 7/8" 20 pcs.	Nyplug-187-250 3/16" x 1/4" 20 pcs.	Nyplug-250-250 1/4" x 1/4" 20 pcs.	Nyplug-375-250 3/8" x 1/4" 20 pcs.

220 Pieces
11 Sizes

SET SCREW KIT

Part Number: SSK-INCH

List Price: \$96.68



Use these set screws in confined areas, where there is no room for a protruding head. Nine coarse sizes, three fine sizes.

Hex wrench shown not included. Coarse sizes: 1/8"-40 x 3/16", 5/32"-32 x 3/16", 3/16"-24 x 1/4", 1/4"-20 x 1/4", 1/4"-20 x 3/8", 5/16"-18 x 3/8", 5/16"-18 x 1/2", 3/8"-16 x 3/8", and 3/8"-16 x 1/2".

Fine sizes: 1/4"-28 x 1/4", 5/16"-24 x 3/8", 3/8"-24 x 3/8"

ASSORTMENT KITS & INSTALLATION TOOLS

CAP PLUG KIT

Part Number: CAP PLUG KIT

List Price: \$338.97



The cap plug kit contains 625 cap plugs in 24 of the most popular sizes.

Cap Plug Number	QTY	Cap Plug Number	QTY	Cap Plug Number	QTY
CAP-2-X	50	CAP-PD-100	25	CAP-G-22	20
CAP-4	50	CAP-PD-120	25	CAP-G-25	20
CAP-6-X	50	CAP-PD-140	20	CAP-G-27	20
CAP-9	50	CAP-PD-160	20	CAP-P-28	25
CAP-12-X	25	CAP-G-2	20	CAP-P-38	25
CAP-14	20	CAP-G-8	20	CAP-P-48	25
CAP-PD-60	25	CAP-G-14	20	CAP-P-68-H	25
CAP-PD-80	25	CAP-G-18	20	CAP-P-88-H	20

CAP PLUG CASE

Part Number: CAP PLUG CASE

List Price: \$173.94

This rugged case has 24 empty compartments to hold a limited variety of cap plugs from the master kit (shown above).

Case only - cap plugs sold separately.



SEAL TOOL KIT

Part Number: SEAL TOOL KIT

Net Price: \$370.28

Kit contains:

- Piston seal compressor
- Pick set
- Pi Tape
- Seal installation tool set
- Wear strip cutter
- O-ring adhesive
- Precision cord cutter
- Seal install and remove tool
- O-ring detector



QUALITY ROD U-SEAL INSTALLATION TOOLS



Part Number	Seal ID Range		Max Heel Cross Section	Net Price
IT 100	3/4" to 1-1/4"	19 - 31 mm	0.300"	\$28.78
IT 150	1-3/8" to 1-7/8"	35 - 47 mm	0.360"	28.78
IT 200	2" to 3"	51 - 76 mm	0.600"	28.78
IT 100-NN	3/4" to 1-1/4"	19 - 31 mm	0.300"	28.78
IT 150-NN	1-3/8" to 1-7/8"	35 - 47 mm	0.360"	28.78
IT 200-NN	2" to 3"	51 - 76 mm	0.600"	28.78

These tools aid U-seal installation, eliminating the risk of damaging the seal lip. NN = Without Hercules® logo.

Usage Instructions online at www.HerculesUS.com / Technical / Usage and Installation Instructions / IT Tools Installation and Assembly.

VALUE ROD U-SEAL INSTALLATION TOOLS



Part Number	Seal ID Range		Net Price
SEAL TWISTOR M	1-3/16" to 2"	30 - 50 mm	\$15.86
SEAL TWISTOR L	2" to 2-3/4"	50 - 70 mm	17.85
SEAL TWISTOR XL	2-3/4" to 6-1/2"	70 - 165 mm	19.83

These tools aid Rod U-seal installation, eliminating the risk of damaging the seal lip. Usage Instructions online at www.HerculesUS.com / Technical / Usage and Installation Instructions / IT Tools Installation and Assembly.

INSTALLATION TOOL SET

Part Number: SEAL TWISTOR SET

Net Price: \$59.33

Sizes Included	Max Heel Cross Section
S (22 - 30 mm)	6.6 mm
M (30 - 50 mm)	10.7 mm
L (50 - 70 mm)	19.3 mm
XL (70 - 165 mm)	27.1 mm

This handy tool set has 4 different size installation tools, along with a holder.



INSTALLATION / SPLICING / CUTTING TOOLS

SEAL CLASPER

Part Number: SEAL CLASPER

Net Price: \$136.03



The Seal clasper is designed to press a PTFE piston seal back into the groove. The clasper works on seals from 50mm to 360mm OD. It allows a piston seal to be installed into a cylinder safely and rapidly.

The stainless steel belt can be adjusted according to the dimension of seals. The HPU triangle protector prevents seal damage.

How to use:

1. Adjust the length of stainless steel belt to match the seal.
2. Pull the grid to clasp the PTFE piston seal back into groove.

Part Number: SEAL CLASPER XL

Net Price: \$262.13



The Seal clasper is designed to press a PTFE piston seal back into the groove. The Clasper XL works on seals from 350mm to 710mm OD. It allows a piston seal to be installed into a cylinder safely and rapidly.

The stainless steel belt can be adjusted according to the dimension of seals. The HPU triangle protector prevents seal damage.

How to use:

1. Adjust the length of stainless steel belt to match the seal.
2. Pull the grid to clasp the PTFE piston seal back into groove.

SPLICE IRON

Part Number: SEAL HEATER

Net Price: \$55.43



100 to 400°C

ULTRASHARP 4.0 REPLACEMENT BLADES

Part Number: ULTRASHARP 4.0 BLADE

Net Price: \$8.35

A pack of 10 replacement blades for the "ULTRASHARP 4.0" tool.



O-RING SPLICE TOOL

Part Number: OR SPLICER

Net Price: \$41.38

- Splicing tool for o-rings
- For cross section diameter from 2.5 to 20 mm
- Clamping plates for locking
- Aluminium stands for use with glue or heat



O-RING SPLICE KIT

Part Number: OR SPLICE KIT

Net Price: \$239.68

Kit contains:

- Splice iron
- Pi tape
- Grinding tool
- O-ring adhesive
- Precision cord cutter
- Splice tool



ULTRASHARP 4.0

Part Number: ULTRASHARP 4.0

Net Price: \$66.31



This heavy duty Ultrasharp 4.0 cutter is capable of cutting fabric resin bearing tape up to 4mm thick and 40mm wide. This cutting tool can be easily adjusted to cut at 45°, 60° and 90° with a simple turn of the positioning wheel. It comes with 10 extra cutting blades and spare parts for easy replacement.

INSTALLATION / SPLICING / REMOVAL TOOLS

O-RING CORD CHOPPER

Part Number: ORC CHOPPER

Net Price: \$48.38



- Cuts o-ring cord to prepare it for splicing
- Suitable for cross section from 0.103 to 0.551 inches (2.62 to 14 mm)

CHOPPER BLADES

Part Number: ORC CHOPPER BLADE

Net Price: \$9.62



Quantity of 20 Chopper Blades.

COMBINATION SNAP RING PLIER SET

Part Number: SR PLIER 4PC SET

Net Price: \$21.75

- Effective Range 10-50mm (3/8" - 2.00")
- Combination Internal - External snap ring plier set
- Set comes with 180°, 90°, 45°, 3 piece convertible tips.
- Jaws can be exchanged easily for 6 internal - external different purposes



OIL SEAL REMOVAL & INSTALLATION TOOL

Part Number: SR TOOL

Net Price: \$89.03



SSOR PICKER

Part Number: SSOR PICKER

Net Price: \$12.98



A set of 4 picks uniquely designed with spring steel round tips to prevent scratching delicate surfaces such as bronze or damaging O-rings during removal.

O-RING PICK SET

Part Number: OR HOOK

Net Price: \$10.79

This Value package of O-ring Picks in plastic carrying case, aid in the installation and extraction of O-rings.



REMOVAL TOOLS

INTERNAL PLIERS

Part Number: 5R INT PLIER

Net Price: \$61.42

Part Number: 7R INT PLIER

Net Price: \$97.00

*5R INT Plier is an internal plier with a
.090° DIA, 0°
- Effective Range 45-89mm (1.81" - 3-1/2")

*7R INT Plier is a large internal plier with
a .120° DIA, 0°
- Effective Range 77-152mm (3.06" - 6.00")



EXTERNAL PLIERS

Part Number: 66R EXT PLIER

Net Price: \$61.42

Part Number: 8R EXT PLIER

Net Price: \$111.94

*66R EXT Plier is an external plier with a
.115° DIA, 0°
- Effective Range 45-89mm (1.81" - 3-1/2")

*8R EXT Plier is an external plier with a
120° DIA, 0° NO TIPS / 7801R
- Effective Range 90-165mm (3.54" - 6.50")



RETAINER RING PLIERS

Part Number: 8R EXT PLIER

Net Price: \$111.94

- 8R EXT Plier is an external plier with a
120° DIA, 0° NO TIPS / 7801R
- Effective Range 90-165mm (3.54"-
6.50")

*NOTE: 8R EXT PLIER does not include the
needed tips. Tip part number options listed
below. Sold separately.

- 7R/8R PLIER TIPS-STRT
- 7R/8R PLIER TIPS-45DEG
- 7R/8R PLIER TIPS-90DEG

REMOVAL TOOLS

O-RING PICK SET 1

Part Number: O-RING PICK
Net Price: \$8.60

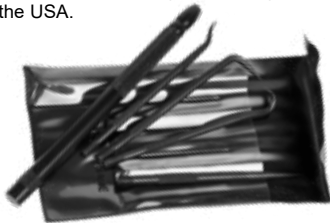
These bronze O-ring picks, w/ black vinyl case, aid in the installation and extraction of O-rings.



O-RING PICK SET 2

Part Number: O PICK SET
Net Price: \$45.67

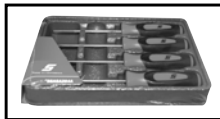
Designed for heavy duty use and packaged in a clear vinyl pouch, this kit contains a knurled handle and four screw-in picks with different hook configurations. Set includes straight tip, o-ring 90° tip, hook tip, and angle tip. Made in the USA.



SNAP-ON O-RING PICK SET 4

Part Number: MAXI PICK SET
Net Price: \$80.90

Designed for heavy duty use and packaged in a plastic pouch, these highly visible picks feature screwdriver-type colored handles. Set includes awl, hook tip, 45° bent tip tool, and 90° bent tip tool. Made in the USA.



CHEVRON ASSEMBLY TOOL

Part Number: CM-376-9067-001
Net Price: \$74.72

Vee Packing assembly tool for Telescopic Cylinders.



GLAND REMOVAL TOOLS

Part Number	Bore Diameter	List Price	Part Number	List Price
JD-6.00X0.40-IT	6"	\$41.05	JD-45MM-IT	\$7.52
JD-70MM-IT	70 mm	14.20	JD-50MM-IT	5.02
JD-80MM-IT	80 mm	15.18	JD-53MM-IT	8.09
JD-90MM-IT	90 mm	16.70	JD-56MM-IT	8.38
JD-100MM-IT	100 mm	19.24	JD-63MM-IT	12.61
			JD-110MM-IT	20.99
			JD-115MM-IT	25.11
			JD-125MM-IT	23.43
			JD-140MM-IT	24.88

5 PIECE TOOL KIT SET

Part Number: CH-TK-1
Net Price: \$132.92



Vee Packing tool kit set for Telescopic Cylinders.

8 PIECE O-RING PICK SET

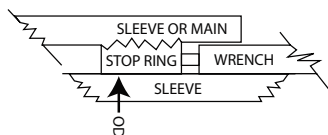
Part Number: O PICK SET-A
Net Price: \$27.48



This economical seal pick tool set lowers your chance of surface damage. It contains 8 different hard metal hooks with sturdy plastic handles.

STOP RING WRENCH

Part Number	Sleeve or Plunger O.D.	Pins	Net Price
CM-376-6067-047	2-3/4"	5 Pins	\$390.13
CM-376-6067-048	3-3/4"	5 Pins	420.15
CM-376-6067-049	4-3/4"	5 Pins	426.10
CM-376-6067-050	5-3/4"	5 Pins	522.98
CM-376-6067-051	6-3/4"	5 Pins	546.40
CM-376-6067-052	7-7/8"	5 Pins	1631.60
CM-391-2086-007	Replacement Stop Wrench Pin		4.05



REMOVAL TOOLS

11 PIECE PACKING TOOL KIT

Part Number: **PACK TOOL SET-11**
Net Price: **\$190.07**



Part Number	QTY	Part Number	QTY
FPH-312R	2	FPH-RTC312	3
FPH-437R	2	FPH-RTC437	3
SSP-125	1	WRENCH	1
SSP-187	1	BOX	1
SSP-312	1		

REPLACEABLE WOODSCREW TIPS

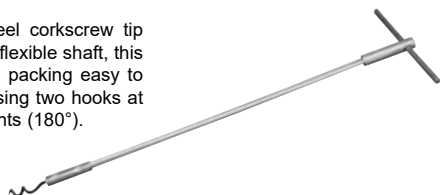
Part Number	Packing Space	Net Price
FPH-RTW312	5/16"-up	\$10.80
FPH-RTW437	7/16"-up	12.68
FPH-RTW500	1/2"-up	13.06



FLEXIBLE PACKING HOOKS

Part Number	Packing Space	Length	Net Price
FPH-187	3/16"-up	6-1/2"	\$20.89
FPH-312R	5/16"-up	7-1/2"	22.91
FPH-437R	7/16"-up	10-1/2"	25.18
FPH-500R	1/2"-up	14-1/2"	34.35

With a tempered tool steel corkscrew tip and a woven strand steel flexible shaft, this tool makes hard to reach packing easy to pull out. Works best by using two hooks at diametrically opposed points (180°).



17 PIECE PACKING TOOL KIT

Part Number: **PACK TOOL SET-17**
Net Price: **\$313.74**



Part Number	QTY	Part Number	QTY
FPH-312R	2	FPH-RTC437	3
FPH-437R	2	FPH-RTC500	3
FPH-500R	2	FPH-RTW312	1
SSP-125	1	FPH-RTW437	1
SSP-187	1	FPH-RTW500	1
SSP-312	1	WRENCH	1
FPH-RTC312	3	BOX	1

REPLACEABLE CORKSCREW TIPS

Part Number	Packing Space	Net Price
FPH-RTC312	5/16"-up	\$9.17
FPH-RTC437	7/16"-up	25.98
FPH-RTC500	1/2"-up	13.74



SOLID SHAFT PICKS

Part Number	Packing Space	Length	Net Price
SSP-125	1/8 -up	9-1/2"	\$29.89
SSP-187	3/16 -up	10"	36.75
SSP-312	5/16"-up	10"	59.03

Formed from hardened steel, this tool's length and sharp angled point gets at hard to reach o-rings, back-up rings and braided packing. You'll be amazed at all the uses you find for this tool.



DISMANTLING TOOLS

SPANNER WRENCHES

(1) ADJUSTABLE HEAD — PIN STYLE

PART NUMBER	PART OD RANGE	PIN DIA.	PIN LGTH.	NET PRICE
SPAP-2.00X0.13	3/4" to 2" (19mm to 50mm)	1/8"	1/8"	\$77.14
SPAP-2.00X0.19	3/4" to 2" (19mm to 50mm)	3/16"	5/32"	77.14
SPAP-3.00X0.19	1-1/4" to 3" (32mm to 76mm)	3/16"	3/16"	84.35
SPAP-3.00X0.25	1-1/4" to 3" (32mm to 76mm)	1/4"	7/32"	84.35
SPAP-4.75X0.25	2" to 4-3/4" (51mm to 120mm)	1/4"	1/4"	107.27
SPAP-6.25X0.38	4-1/2" to 6-1/4" (115mm to 159mm)	3/8"	1/4"	118.66



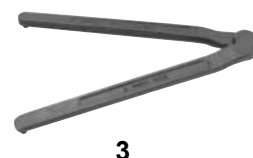
(2) ADJUSTABLE HEAD — HOOK STYLE

PART NUMBER	PART OD RANGE	HOOK WD.	HOOK DP.	NET PRICE
SPAH-2.00	3/4" to 2" (19mm to 50mm)	11/32"	1/8"	\$70.24
SPAH-3.00	1-1/4" to 3" (32mm to 76mm)	13/32"	5/32"	80.93
SPAH-4.75	2" to 4-3/4" (51mm to 120mm)	15/32"	3/16"	102.22
SPAH-6.25	4-1/2" to 6-1/4" (115mm to 159mm)	15/32"	1/4"	109.32
SPAH-8.75	6-1/8" to 8-3/4" (155mm to 222mm)	15/32"	5/16"	152.26

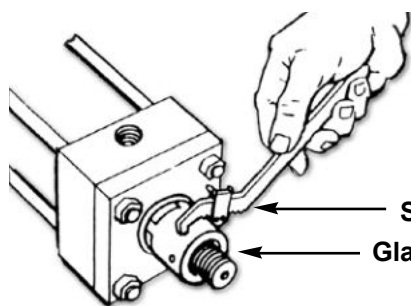


(3) ADJUSTABLE FACE — PIN STYLE

PART NUMBER	DIA. RANGE (CENTER TO CENTER)	PIN DIA.	PIN LGTH.	NET PRICE
SPAPF-2.00X0.19	5/8" to 2" (16mm to 50mm)	3/16"	1/8"	\$62.17
SPAPF-3.00X0.25	5/8" to 3" (16mm to 76mm)	1/4"	3/16"	90.87
SPAPF-4.00X0.31	5/8" to 4" (16mm to 101mm)	5/16"	1/4"	125.51



PARKER GLAND WRENCHES



Spanner Wrench (Sold Separately Above)

Gland Wrench



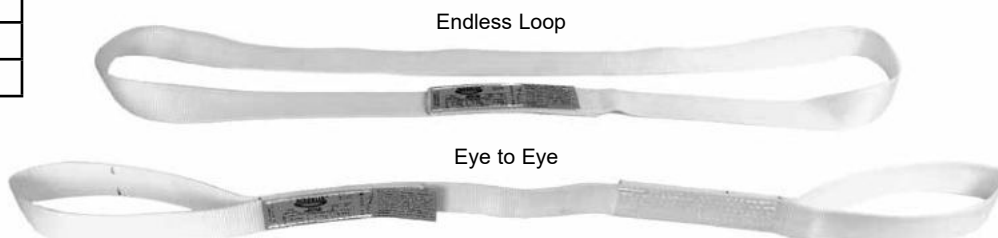
Rod Dia.	Kit #	ID X OD X HT	Net Price	Spanner (Sold Separately Above)
1/2", 5/8", 12mm & 14mm	PKH-069590	11/16" X 1-1/8" X 1-3/8"	\$50.14	SPAP-2.00X0.19
18mm	PKH-084765	13/16" X 1-1/4" X 1-7/16"	44.77	SPAP-2.00X0.19 or SPAP-3.00X0.19
1" & 22mm	PKH-069591	1-1/16" X 1-5/8" X 1-1/2"	30.29	SPAP-2.00X0.19 or SPAP-3.00X0.19
28mm	PKH-084766	1-1/4" X 1-11/16" X 1-9/16"	42.83	SPAP-2.00X0.19 or SPAP-3.00X0.19
1-3/8" & 36mm	PKH-069592	1-7/16" X 1-7/8" X 1-5/8"	58.65	SPAP-2.00X0.19 or SPAP-3.00X0.19
1-3/4" & 45mm	PKH-069593	1-13/16" X 2-1/4" X 1-5/8"	55.76	SPAP-3.00X0.25 or SPAP-4.75X0.25
2"	PKH-069594	2-1/16" X 2-1/2" X 2"	69.24	SPAP-3.00X0.25 or SPAP-4.75X0.25
2-1/2" & 56mm	PKH-069595	2-9/16" X 3" X 2-1/8"	109.35	SPAP-3.00X0.25 or SPAP-4.75X0.25
70mm	PKH-069596	2-15/16" X 3-1/2" X 2-3/8"	119.32	SPAP-4.75X0.25

LIFTING SLINGS

Hercules now carries new synthetic web lifting slings which are primarily composed of nylon. Our lifting slings are a soft and flexible solution to rigging and are offered in endless and eye to eye styles. All of the synthetic web slings are constructed with 9800 lbs. maximum load rated heavy duty webbing, and are in full compliance with current ASME B30.9 standards, with a 5:1 safety factor.

Nylon web slings with flat eye to eye loops are one of the most popular straps for lifting because of their versatility: they can be used in a choker, basket or vertical hitch. The design also makes it easy to remove from underneath a load.

Material	Nylon
Max Temperature	180°F
UV Degradation	High



Part Number	Width (in)	Length (ft)	Product	Vertical Load Limit (lbs.)	Choker Load Limit (lbs.)	Basket Load Limit (lbs.)	Net Price
SLEN1-4	1"	4'	Endless Loop	3200	2500	6400	\$13.77
SLEN1-6	1"	6'	Endless Loop	3200	2500	6400	18.71
SLEN2-4	2"	4'	Endless Loop	6400	5000	12800	22.71
SLEN2-6	2"	6'	Endless Loop	6400	5000	12800	31.44
SLEN2-8	2"	8'	Endless Loop	6400	5000	12800	40.49
SLEE1-4	1"	4'	Eye to Eye	1600	1200	3200	13.16
SLEE1-6	1"	6'	Eye to Eye	1600	1200	3200	15.01
SLEE2-4	2"	4'	Eye to Eye	3200	2400	6400	21.30
SLEE2-6	2"	6'	Eye to Eye	3200	2400	6400	24.93
SLEE2-8	2"	8'	Eye to Eye	3200	2400	6400	29.37

LEAK DETECTION

LEAK DETECTION KIT

Part Number: LDU-SPI-VLOG44

Net Price: \$216.45

HOW IT WORKS

A small amount of liquid fluorescent dye is added to a circulating fluid system that is being inspected for leaks. The system is then run for a short time to allow the dye to mix and circulate with the host fluid. The dye/fluid mixture escapes with the host fluid wherever there is a leak and glows a bright yellow/green when inspected with a high-intensity violet light LED lamp. This method is extremely effective in locating even the smallest, most elusive leaks, as well as multiple leaks.



The LDU-SPI-VLOG44 kit will contain:

- LDU-SPI-VL, an LED violet-light flashlight
- (3) AAA batteries
- OIL-GLO-44, 8 ounces of dye
- Glow Away Plus, 2 ounces dye cleaner
- Enhancing lenses
- Dye treatment tags
- Carrying case

INDIVIDUAL LEAK DETECTION PRODUCTS

Part Number	Description	Net Price
LDU-CR-800	CLEANER, 8 OZ SPRAY	\$14.36
LDU-OIL-GLO-44-P	DYE, ALL-IN-ONE, 16 OZ	130.50
LDU-SPI-VL	LAMP, LED, VIOLET LIGHT	131.31
LDU-UVS-40	SPECTACLES, UV ENHANCING	23.49

16oz dye container treats up 128 gallons

FORMERLY LISTED REPAIR PARTS ARE AVAILABLE ONLINE AT WWW.HERCULESUS.COM
OR BY CONTACTING YOUR REGIONAL HERCULES SALES TEAM.

REMANUFACTURING TOOLS

PORTABLE HONES - AN-815

Part Number: H-S-AN-815

Net Price: \$733.33

Hand Feed - ID Range 64-533 mm (2.500" - 21.000")
For occasional heavy-duty portable honing

Illustration shows standard AN-815 Portable Hone assembled with single length master holder set and stone set.
Requires 16 mm (5/8") chuck capacity for 63.5-127 mm (2.5"-5") diameter. Requires 19mm (3/4") chuck capacity for 127-381 mm (5"-15") diameter. Requires 25.4 mm (1") chuck capacity for larger than 381 mm (15") diameter.



Weight 2.3 kg (5 lbs).

FOR A COMPLETE PORTABLE HONE ORDER A + B + C + D + E				A - BASIC HONE	B - MASTER HOLDER SETS				C - STONE SUPPORT		E - SHAFT EXTEN-SION
Diameter Range					Single Length		Double Length				
General Purpose Stone Sets		Guideless and Keyway Stone Sets							Part Number	Net Price	
mm	Inches	mm	Inches								
64-140	2.5-5.5	64-142	2.5-5.6	See Hone H-S-AN-815 Above	None	-	None	-	None	-	For long holes - see table below for Shaft Extensions.
104-160	4.1-6.3	114-165	4.5-6.5		H-S-AN-345	\$375.00	None	-	None	-	
119-178	4.7-7.0	130-183	5.1-7.2		H-S-AN-355	321.43	H-S-AN-855	\$558.33	None	-	
152-229	6.0-9.0	163-234	6.4-9.2		H-S-AN-365	383.33	H-S-AN-865	558.33	H-S-AN-260	\$151.42	
206-305	8.1-12.0	213-310**	8.4-12.2**		H-S-AN-375	408.33	None	-	H-S-AN-280	153.33	
279-381	11.0-15.0	284-386**	11.2-15.2**		H-S-AN-385	391.67	None	-	H-S-AN-290	181.33	
356-457	14.0-18.0	363-465**	14.3-18.3**	See hone above	H-S-AN-395	416.67	H-S-AN-895	633.33	H-S-AN-340	200.00	
432-533	17.0-21.0	437-538**	17.2-21.2**		H-S-AN-415	400.00	None	-	None	-	

* For light work only in this diameter range.

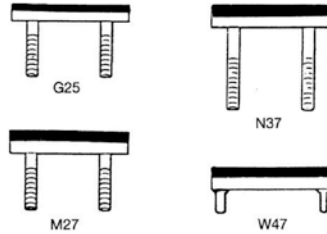
** Do not use WW (Guideless) Stone Sets in this range due to lack of stability.

Length		AN-815 Shaft Extensions	
			
mm	Inches	Part Number	NET Price
76	3	None	-
152	6	H-S-AN-840	\$141.67
235	9.25	None	-
305	12	None	-
483	19	None	-
610	24	H-S-AN-842	333.33
1086	42.75	None	-
1220	48	H-S-AN-844	616.67
1835	72.25	None	-

REMANUFACTURING TOOLS

HONE STONE SETS FOR AN-815 AND ANR-275

Hone Stone Sets for 2.5" to 60"* diameter, portable tools (two stones and two guides per set). Stone length is 102 mm (4") or 203 mm (8") when two sets of stones are used with double length master holder set. For Industrial applications. From fast stock removal in deburred, bored, ground, or reamed holes to fine finishing in previously honed holes, these hone stone sets are in stock and ready for next day delivery.



Stone Number	Diameter
G25	2.5 - 2.7
M27	2.7 - 4.1
N37	3.5 - 5.5
W47	4.1 - 60.0*

* Requires Master Holder Set - Limited to 21" with H-S-AN-815

ALUMINUM OXIDE STONES

MODEL		G25		M27		N37		W47	
GRIT SIZE		64 TO 69 mm 2.5" - 2.7"	NET PRICE	69 TO 104 mm 2.7" - 4.1"	NET PRICE	89 TO 140 mm 3.5" - 5.5"	NET PRICE	104 TO 1524 mm 4.1" - 60"***	NET PRICE
80	HARD - SOFT	H-S-G25-A23	\$32.12	H-S-M27-A23	\$32.12	H-S-N37-A23	\$32.12	H-S-W47-A23	\$32.12
		H-S-G25-A25	32.12	H-S-M27-A25	32.12	H-S-N37-A25	32.12	H-S-W47-A25	32.12
		H-S-G25-R25X	32.12	H-S-M27-R25X	32.12	H-S-N37-R25X	32.12	H-S-W47-R25X	32.12
		H-S-G25-A27	32.12	H-S-M27-A27	32.12	H-S-N37-A27	32.12	H-S-W47-A27	32.12
150	H - S	H-S-G25-A43	32.12	H-S-M27-A43	\$32.12	H-S-N37-A43	\$32.12	H-S-W47-A43	\$32.12
		H-S-G25-A45	32.12	H-S-M27-A45	32.12	H-S-N37-A45	32.12	H-S-W47-A45	32.12
		H-S-G25-A47	32.12	H-S-M27-A47	32.12	H-S-N37-A47	32.12	H-S-W47-A47	32.12
220	H - S	-	-	-	-	H-S-N37-A55	\$32.12	H-S-W47-A55	\$32.12
280	H - S	-	-	-	-	-	-	H-S-W47-A63	\$32.12
		H-S-G25-A65	\$32.12	H-S-M27-A65	\$32.12	H-S-N37-A65	\$32.12	H-S-W47-A65	32.12
		-	-	H-S-M27-A67	32.12	-	-	H-S-W47-A67	32.12

SILICON CARBIDE STONES

MODEL		G25		M27		N37		W47	
GRIT SIZE		64 TO 69 mm 2.5" - 2.7"	NET PRICE	69 TO 104 mm 2.7" - 4.1"	NET PRICE	89 TO 140 mm 3.5" - 5.5"	NET PRICE	104 TO 1524 mm 4.1" - 60"***	NET PRICE
70	HARD - SOFT	-	-	-	-	-	-	H-S-W47-J11	\$32.12
		-	-	-	-	-	-	H-S-W47-J13	32.12
		H-S-G25-J15	\$32.12	-	-	-	-	H-S-W47-J15	32.12
		H-S-G25-J17	32.12	H-S-M27-J17	\$32.12	H-S-N37-J17	\$32.12	H-S-W47-J17	32.12
150	H - S	-	-	-	-	-	-	H-S-W47-J43	\$32.12
		H-S-G25-J45	\$32.12	H-S-M27-J45	\$32.12	H-S-N37-J45	32.12	H-S-W47-J45	32.12
		H-S-G25-J47	32.12	H-S-M27-J47	32.12	H-S-N37-J47	32.12	H-S-W47-J47	32.12
220	H - S	-	-	H-S-M27-J55	\$32.12	-	-	H-S-W47-J55	\$32.12
		-	-	-	-	-	-	-	-
280	H - S	-	-	H-S-M27-J63	\$32.12	-	-	H-S-W47-J63	\$32.12
		H-S-G25-J65	32.12	H-S-M27-J65	32.12	H-S-N37-J65	\$32.12	H-S-W47-J65	32.12
		-	-	-	-	H-S-N37-J67	32.12	H-S-W47-J67	32.12
400	H - S	H-S-G25-J85	\$32.12	H-S-M27-J85	\$32.12	H-S-N37-J85	\$32.12	H-S-W47-J85	\$32.12
		H-S-G25-J87	32.12	H-S-M27-J87	32.12	H-S-N37-J87	32.12	H-S-W47-J87	32.12

* R25X - Red aluminum oxide / sulfur Impregnated

** Requires Master Holder Set - Limited to 21" with H-S-AN-815 and H-ANR-275

ADDITIONAL HONE STONE SET AVAILABLE

This Hone Stone Set offers quick stock removal and fine finishing in both treated and previously honed holes. Available in stock for next-day delivery.

PART NUMBER	BORE SIZE	MATERIAL	GRIT SIZE	HARDNESS	NET PRICE
H-S-H70-A45	2.900 - 11.500	Aluminum Oxide	150	Medium	\$45.76

FORMERLY LISTED REPAIR PARTS ARE AVAILABLE ONLINE AT WWW.HERCULESUS.COM
OR BY CONTACTING YOUR REGIONAL HERCULES SALES TEAM.

REMANUFACTURING TOOLS

HONING OIL - 5 GALLON PAIL

Part Number: H-S-TA-230-5

Net Price: \$245.00

Honing Oil is specially compounded for ferrous and non ferrous honing to:

- Dissipate heat from the workpiece
- Lubricate tool contact surfaces (guides)
- Flush bore free of honing swarf
- And maintain clean, free cutting abrasive conditions

Recommended for continuous honing of most materials, including: steel, cast iron, carbide, aluminum, bronze and ceramics. Use with any make honing equipment or tooling.



PISTON SEAL REFORMING TOOL

Part Number: PS CONSTRICTOR

Net Price: \$18.90



PTFE Piston seal resizing tool.

PISTON SEAL STRETCHER

Part Number: SEAL STRETCHER PLUS

Net Price: \$163.51

This Seal Stretcher is heavy duty with a handle for easier use and includes the following:

- 8 stepped segments
- 1 top nut/handle
- 5/16" thick aluminum flat base including 4 mounting bolt holes
- 1 threaded rod with a piston pre-installed
- 1 stop adjustable nut
- Assembly instructions sheet



Usage instructions are online at www.HerculesUS.com/Technical/Usage and [Installation Instructions/Seal Stretcher Instructions](#).

MINI GRINDER

Part Number:

Net Price:

OR GRINDER

\$67.39



The Mini Grinder has a no load speed of 5000-18,000 rpm adjustable, and includes the following:

- Copper collet: 2.4 & 3.2 (mm)
- 2 Diamonds bits
- 2 Grinding Stones
- 1 Nylon Brush
- 1 Connective posts for sanding bands
- 2 sanding bands
- 1 engraving bit
- 1 collet (2.4 mm)

ROTARY THREAD® FILES

15 PIECE MASTER TOOL KIT

Part Number: HRTR-K2.1

Net Price: \$293.22



Part Number	Qty	Part Number	Qty
HRTR-1	1	HRTR-5B	1
HRTR-2	1	HRTR-5S1	1
HRTR-2L	1	HRTR-5S2	1
HRTR-3S2	1	HRTR-C1	1
HRTR-4	1	HRTR-M3	1
HRTR-4S1	1	HRTR-M5	2
HRTR-5	1		
HRTR-5A	1		

8 PIECE STANDARD KIT

Part Number: HRTR-K3.1

Net Price: \$125.00



Part Number	Quantity
HRTR-2L	1
HRTR-C1	1
HRTR-5	1
HRTR-1	1
HRTR-4	1
HRTR-M5	1
HRTR-M5	1
HRTR-2	1

4 PIECE GROOVE & GLAND RESTORE KIT

Part Number: HRTR-K1.2

Net Price: \$42.17



Part Number	Quantity
HRTR-3S1	3
HRTR-M3	1

3 PIECE THREAD RESTORE STARTER KIT

Part Number: HRTR-K1.1

Net Price: \$34.27



Part Number	Quantity
HRTR-1	1
HRTR-2	1
HRTR-C1	1

ROTARY THREAD® FILES

STANDARD THREAD



Part Number	Thread Types	Shank Size	Head Diameter	Overall Length	Minimum Working ID	Minimum Pitch	Thread Angle	RPM	Net Price
HRTR-1	Inch, Metric, Pipe, SAE, National	1/8"	3/8"	2"	7/16"	28 TPI (0.8 Metric)	60°	Up to 12,000 (Max 15,000)	\$13.66
HRTR-2	Inch, Metric, Pipe, SAE, National	1/4"	3/4"	2"	5/8"	28 TPI (0.8 Metric)	60°	Up to 12,000 (Max 15,000)	19.83
HRTR-2L	Inch, Metric, Pipe, SAE, National	1/4"	3/4"	4"	5/8"	28 TPI (0.8 Metric)	60°	Up to 12,000 (Max 15,000)	27.62

STANDARD THREAD FOR USE WITH MANDREL



Part Number	Thread Types	Shank Size	Head Diameter	Mandrel Used	Thickness	Minimum Working ID	Minimum Pitch	Thread Angle	RPM	Net Price
HRTR-4	Inch, Metric, Pipe, SAE, National	1/4"	1-5/8"	HRTR-M5	0.118"	1-3/4"	28 TPI (0.8 Metric)	60°	Up to 12,000 (Max 15,000)	\$31.45
HRTR-5	Inch, Metric, Pipe, SAE, National	1/4"	2"	HRTR-M5	0.315"	2-1/8"	20 TPI (0.8 Metric)	60°	Up to 12,000 (Max 15,000)	32.66
HRTR-5A	ACME	1/4"	2"	HRTR-M5	0.315"	2-1/8"	16	29°	Up to 12,000 (Max 15,000)	32.66
HRTR-5B	BUTTRESS	1/4"	2"	HRTR-M5	0.315"	2-1/8"	NA	7 x 45°	Up to 12,000 (Max 15,000)	32.66

ROTARY THREAD® FILES

GROOVE & GLAND



Part Number	Thread Types	Shank Size	Head Diameter	Mandrel Used	Thickness	Minimum Working ID	Minimum Pitch	RPM	Net Price
HRTR-3S1	Cylinder Glands & Grooves	1/8"	0.984"	HRTR-M3	0.040"	1"	Square	Up to 12,000 (Max 15,000)	\$24.75
HRTR-4S1	Glands, Grooves, Snap Rings	1/4"	1-5/8"	HRTR-M5	0.040"	1-3/4"	Square	Up to 12,000 (Max 15,000)	31.75
HRTR-5S1	Glands, Grooves, Snap Rings	1/4"	2"	HRTR-M5	0.040"	2-1/8"	Square	Up to 12,000 (Max 15,000)	32.66
HRTR-5S2	Glands, Grooves, Snap Rings	1/4"	2"	HRTR-M5	0.080"	2-1/8"	Square	Up to 12,000 (Max 15,000)	32.66

MANDRELS



Part Number	Body Diameter	Length	Arbor Diameter	Net Price
HRTR-M3	0.236"	2"	1/8"	\$8.26
HRTR-M5	0.472"	2"	1/4"	10.51

COLLETS

Part Number	Diameter	Length	Net Price
HRTR-C1	1/8" to 1/4"	5/8"	\$3.10



MEASURING TOOLS

HIGH QUALITY DIGITAL CALIPER

Part Number: HH-CALIPER-6-FR

Net Price: \$56.66

This high quality instrument measures to 6" (150 mm). A push of a button changes from fractions, mm and inches. Functions also include: On/Off function, zero key, data input capabilities, test for low voltage, and "Auto Off" function when unit sits dormant for more than 4 minutes.

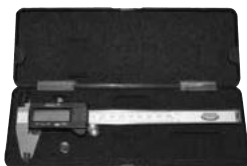


DIGITAL CALIPERS

Part Number	Net Price
HH-CALIPER-6	\$49.16
HH-CALIPER-6-P	49.16
HH-CALIPER-8	81.04
HH-CALIPER-12	118.47
HH-CALIPER-12-P	118.47

Quality calipers able to measure up to 6" (150mm) or 12" (300mm). A push of a button changes from inches to metric. A clear LCD display shows a reading with a resolution of 0.0005" (0.01mm) that is accurate to ±0.001" (±0.03mm). These calipers come in a sturdy, padded plastic case with instructions and a spare battery.

P = No Hercules logo.



INNER GROOVE CALIPER

Part Number: INNER CALIPER

Net Price: \$138.88



Inner Groove Caliper - 200 mm.

INNER DEPTH CALIPER

Part Number: INNER-DEPTH CALIPER

Net Price: \$172.41

BATTERIES NOT INCLUDED

BATTERY NEEDED - 303/357/76



This inner depth caliper is complete with five modes of measurement (OD, ID, General Depth, Groove Width, and Groove Depth). It has a digital display capable of displaying mm, inches, and fractions and can take measurements of up to 8" (205 mm). The four groove depth pins located on the back of the calipers measure 10mm, 20mm, 3/8", and 3/4".

INNER DEPTH CALIPER PINS

Part Number: INNER-DEPTH CALIPER DP

Net Price: \$15.96

This Inner-Depth Caliper replacement part includes four groove depth pins measuring 10mm, 20mm, 3/8", and 3/4".



INNER DEPTH CALIPER KNIVES

Part Number: INNER-DEPTH CALIPER WK

Net Price: \$15.96

This Inner-Depth Caliper replacement part includes one pair of width knives and four installation screws.



MEASURING TOOLS

12" STEEL RULER

Part Number: HB-RULER-01

Net Price: \$9.80



12" Stainless Steel Ruler with cork back to prevent damage and resist slipping. Measures both Standard and Metric.

6" STEEL RULER WITH CLIP

Part Number: HB-RULER-02

Net Price: \$6.47



6" Stainless Steel Ruler with Clip. Measures both Standard and Metric.

O-RING COMPOUND IDENTIFIER

Part Number: OR RECOGNISER

Net Price: \$15.71

Identify a variety of o-ring compounds with this handy O-Ring Recognizer kit. Testing for EPDM70, NBR, FFKM (KALREZ®) and FKM o-rings. Three sample seals included.

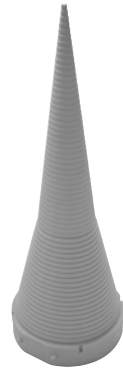


O-RING MEASURING CONE

Part Number: O RING CONE-INCH

Net Price: \$26.18

Handy cone provides o-ring dash numbers instantly. Measures 184 of the most widely used sizes in 5 standard widths, 1/4" ID to 5-5/8" ID. Made of high density polyurethane, the cone stands 17-1/2" high.



BORE TAPE

Part Number: BORE TAPE 300

Net Price: \$121.41

Measures inside and outside diameters from 50 mm 300 mm (2"-12").



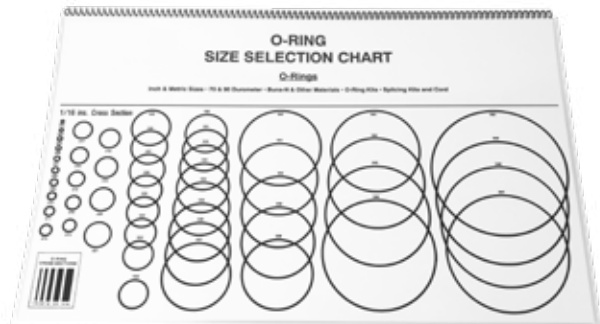
O-RING CHART

Part Number: O-RING CHART

Net Price: \$25.77

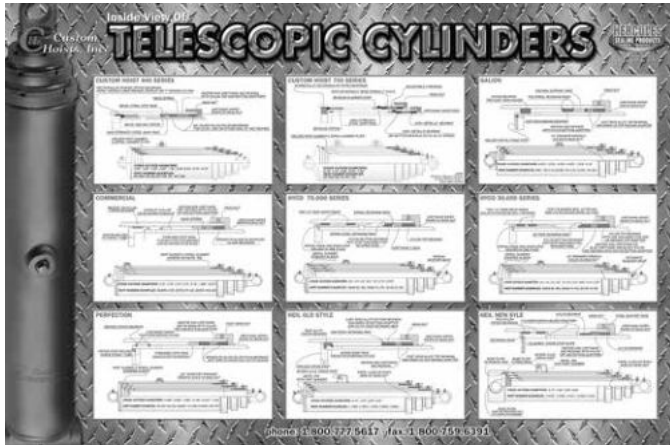
Part Number: O-RING CHART NN

Net Price: \$25.77



Durable, Accurate, and Fast, these charts allow for easy Standard O-ring size identification. No shop should be without one!
NN = Without Hercules® logo.

ASSORTMENT KITS AND TOOLS

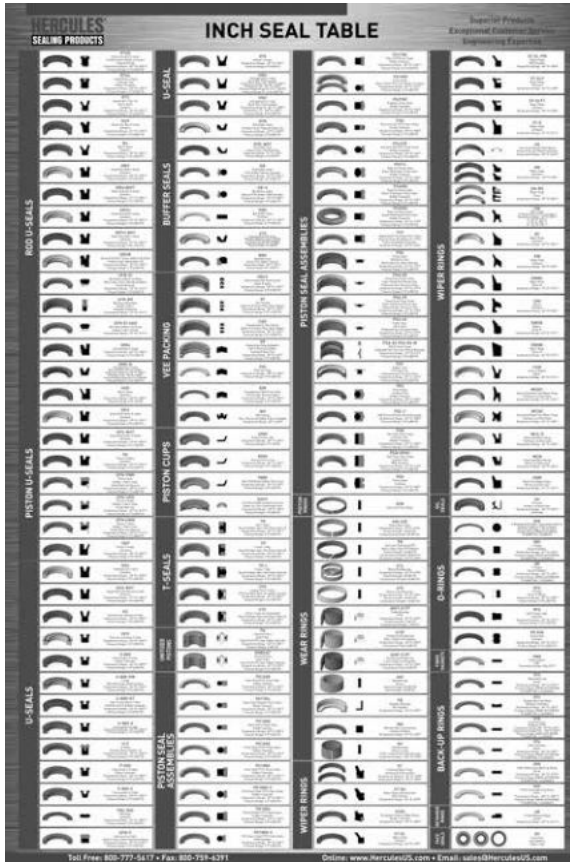
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MEASURING TOOLS

INCH SEAL PROFILE POSTER

Part Number: INCH-POSTER

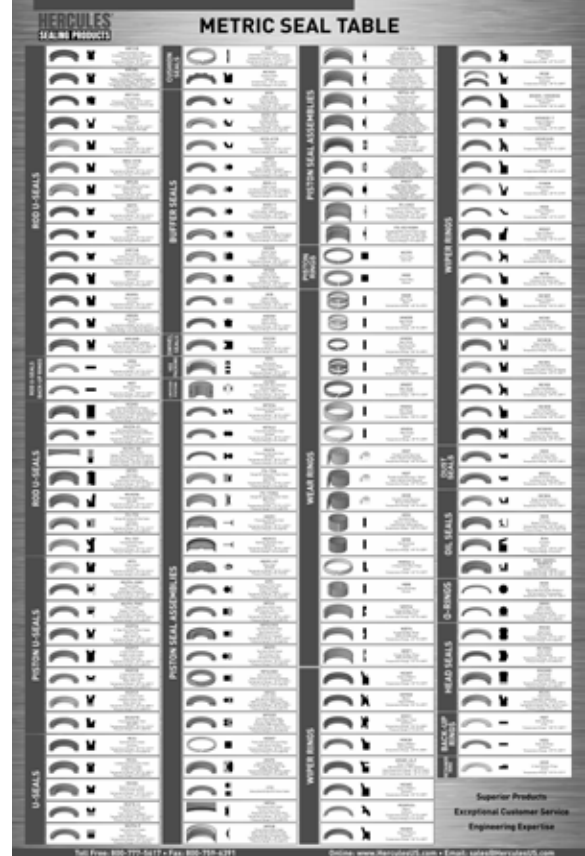
Net Price: \$7.00



METRIC SEAL PROFILE POSTER

Part Number: METRIC-POSTER

Net Price: \$7.00



HERCULES MERCHANDISE

COFFEE MUG

Part Number: HB-COFFEE MUG-01

Net Price: \$10.53

Silver, double wall, travel mug, with black plastic inner liner. Holds 14 oz.



BASEBALL HAT

Part Number: HB-HAT-01

Net Price: \$9.76

Black canvas baseball hat. Low profile with adjustable Velcro strap. One size fits most.



HERCULES T-SHIRT

Part Number	Size	Net Price
HB-T-SHIRT-01M	MED	\$8.49
HB-T-SHIRT-01L	LARGE	8.49
HB-T-SHIRT-01XL	X-LARGE	8.49
HB-T-SHIRT-01XXL	XX-LARGE	13.49
HB-T-SHIRT-01XXXL	XXX-LARGE	16.70

99% Cotton / 1% Polyester Gildan™ grey T-Shirt. Hercules logo on front, with larger "Quality Parts" graphics on the back.



COUNTER MAT

Part Number: HH-COUNTER MAT

Net Price: \$18.56



Full color 26" x 17" vinyl Counter Mat with 1/8" foam backing.

MOUSE PAD

Part Number: HB-MOUSE PAD

Net Price: \$2.74

This sturdy mouse pad measures 7-1/4" x 8-3/8", and features a vinyl top with 1/8" foam backing.



BLACK AND BLUE TRUCKER HAT

Part Number: HB-HAT-02

Net Price: \$13.39

Black trucker hat. High profile with plastic snapping adjustable strap. One size fits most.



HERCULES SHIRT

Part Number	Size	Net Price
HB-SHIRT-01SM	SMALL	\$24.83
HB-SHIRT-01M	MEDIUM	24.83
HB-SHIRT-01L	LARGE	24.83
HB-SHIRT-01XL	X-LARGE	26.13
HB-SHIRT-01XXL	XX-LARGE	27.43

55% Cotton / 45% Polyester Ahead brand cobalt blue Polo Shirts. Hercules logo on left chest.



COUNTER STOOL - 30" TALL

Part Number: HH-COUNTERSTOOL

Net Price: \$122.80

30" Tall Counter Stool with vinyl padded seat and metal legs. Some assembly required.



Urethane

Formulated of copolymers of ether or ester based urethanes, this material is used in a wide application of seals, wipers, back-up rings, cushions, bumpers, and a myriad of other uses. Highly resistant to oil swell, ozone, oxidation and abrasion, it also has excellent cut resistance. Highly resilient, urethanes also have high tensile strength and elongation properties. Urethanes remain an excellent choice in hydraulic systems using petroleum based fluids. Most urethane seals remain flexible and efficient in temperatures ranging from -65° F to +200° F with some able to withstand intermittent temperatures up to +300° F.

Nitrile

The most common nitrile copolymer blend is the compound known as Buna-N. Possessing very good resistance to petroleum based hydraulic oils, Buna-N also works well with fuels such as diesel or gasoline. Nitrile seals have a good resistance to compression set, but their flexibility suffers somewhat in the lower temperature range. Seals made from this material have a low resistance to ozone and must be stored carefully in most environments. Working temperatures are -40° to +240° F.

PTFE

Most PTFE seals, in order to retain their toughness and flexibility, are fortified with short glass fiber, bronze flashes, carbon graphite, or a combination of these fillers. Because of a lack of resilience (memory) in PTFE, an energizer is most often employed to obtain the desired fit. Benefits are chemical inertness, high heat resistance, low temperature flexibility, low running friction, and non-adhesive characteristics. Temperatures to +500° F are obtainable but are often reduced by the filler or energizer employed.

Fluorocarbon

Fluorocarbon combines high temperature resistance with excellent chemical resistance. Excellent for use with alcohol and aromatic fuels and highly resistant to ultraviolet light and ozone. This material is not recommended for use in low temperatures or in aircraft hydraulic fluids. Temperature range is -20° to +400° F.

Ethylene-Propylene

Ethylene-Propylene can be used for sealing phosphate ester hydraulic fluids such as Skydrol. Not suitable for petroleum based fluids, Ethylene-Propylene is highly effective for use with steam, acetone, and dilute acids and bases. Specially compounded Ethylene-Propylene can be made suitable for automobile brake systems. Temperature range from -20° to +300° F.

Silicone

Silicone is an elastomer made from silicon, oxygen, hydrogen, and carbon. The key use of this material is in static seals employed in a wide (-75° F to +450° F) range of temperatures. Silicone has a high resistance to dry heat, ultraviolet light and ozone. This material is not recommended for dynamic situations due to poor abrasion resistance and high friction characteristics.

Glossary of Terms

- Bearing/Wear Rings:** Soft metal or plastic rings placed in grooves on the piston or in the head to prevent contact between hard metal surfaces.
- Durometer:** A generic term referring to the instrument and the scale used to measure the relative hardness of various elastomers. The lower the durometer reading, the softer the material.
- Dynamic Seal:** A sealing device used between mating surfaces that have relative motion.
- Elastomer:** A rubber-like material having the capacity for large deformation and rapid, complete recovery from the deforming force.
- Gland:** A groove or open area machined into the head or piston that houses the sealing device.
- Static Seal:** A sealing device used between mating surfaces that have no relative motion.
- Wiper/Scraper:** A device placed in the head of a cylinder for the purpose of excluding foreign matter from the inside of the cylinder.

TYPES OF SEALING MATERIAL

These are general guidelines only, and users must conduct their own functional tests to determine the suitability of any compound for their particular application.

R = Recommended
M = Marginal
U = Unsatisfactory
X = Insufficient Data

Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
Acetaldehyde	U	U	R	U	U	U	R	U
Acetamide	R	U	R	R	U	U	M	U
Acetic Acid	M	M	R	R	U	U	R	U
Acetone	U	M	R	M	U	U	M	U
Acetophenone	U	U	R	U	U	U	U	U
Acetylene	R	R	R	R	X	X	R	R
Ammonia	R	R	R	R	U	X	R	U
Ammonium Hydroxide	R	R	R	R	U	U	R	R
Amyl Acetate	U	U	M	U	U	U	U	U
Anderol L-774	M	U	U	U	R	U	U	R
Aniline	U	U	R	U	U	U	U	M
Ansul Ether	M	U	M	U	U	R	U	U
Antifreeze	R	R	R	R	U	U	R	R
Arocors	M	U	R	U	U	X	M	R
Askarel	R	U	U	U	U	U	U	R
ASTM #1	R	U	U	R	R	R	R	R
ASTM #3	R	U	U	U	R	R	U	R
ASTM Fuel A	R	U	U	R	R	R	U	R
ASTM Fuel B	R	U	U	U	U	R	U	R
ASTM Fuel C	R	U	U	U	U	R	U	R
ASTM Fuel D	M	U	U	U	U	R	U	R
Auto Transmission Fluid	R	U	U	M	R	R	M	R
Beer	R	R	R	R	U	U	R	R
Benzaldehyde	U	U	R	U	U	U	U	U
Benzene	U	U	U	U	U	U	U	R
Benzine	R	U	U	R	R	R	U	R
Benzoic Acid	U	U	U	U	U	U	U	R
Benzophenone	U	U	R	X	U	U	U	R
Benzyl Alcohol	U	U	U	R	U	U	X	R
Bleach	R	R	R	R	U	U	U	R
Borax	R	R	R	U	R	R	R	R
Boric Acid	R	R	R	R	U	R	R	R
* Brake Fluid (non-Petroleum)	U	R	R	R	U	U	R	U
Bromine	U	U	U	U	U	U	U	R
Bromobenzene	U	U	U	U	U	U	U	R
Bunker Oil	R	U	U	U	R	R	U	R
Butane	R	M	U	R	R	U	U	R
Butter	R	U	M	R	R	R	R	R
Butyl Acetate	U	U	U	U	U	U	U	U
Butyl Alcohol	R	R	R	R	U	U	R	R
Butyl Amine	M	U	U	U	U	U	R	U
Butyl Carbitol	U	U	R	M	U	X	U	M
Butyl Cellosolve	M	U	R	M	U	U	R	U
Butyraldehyde	U	U	R	U	U	U	U	U
Carbitol	R	R	R	R	U	U	R	R

Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
Carbitol Acetate	U	U	U	U	U	U	U	R
Carbon Disulfide	U	U	U	U	U	X	U	R
Carbon Tetrachloride	R	U	U	U	U	U	U	R
Carbonic Acid	R	R	R	R	R	R	R	R
Castor Oil	R	R	R	R	R	R	R	R
Cellosolve	U	R	U	U	U	U	U	U
Chassis Grease	R	U	U	M	R	X	U	R
Chloracetic Acid	U	U	R	U	U	U	X	U
Chloracetone	U	U	R	M	X	X	U	R
Chlordane	R	U	U	M	X	X	U	R
Chlorine	U	U	R	U	U	U	X	R
Chlorobenzol	U	U	U	U	U	U	U	R
Chloroform	U	U	U	U	U	U	U	R
Chlorsulfonic Acid	U	U	U	U	U	U	U	U
Chrome Plating Solution	U	U	R	U	U	U	R	R
Chromic Acid	U	U	X	U	X	X	M	R
Citric Acid	R	R	R	R	X	X	R	R
Cod Liver Oil	R	U	U	R	R	U	R	R
Coffee	R	R	R	R	U	U	R	R
Corn Oil	R	U	U	U	R	U	R	R
Creosote	R	U	U	R	R	M	U	R
Creosote Oil	R	U	U	M	X	X	M	R
Creosylic Acid	U	U	U	U	U	U	U	R
Crude Oil	R	U	U	U	R	X	U	R
Cyclohexane	R	U	U	M	R	R	U	R
Cyclohexanol	R	U	U	R	X	X	U	R
Decalin	U	U	U	U	U	U	U	R
Denatured Alcohol	R	R	R	R	U	U	R	R
Diacetone	U	U	R	U	U	U	U	U
Dibutyl Amine	U	U	U	M	U	U	U	U
Dibutyl Phthalate	U	U	R	U	U	X	X	M
Dichloro Aniline	U	U	U	U	U	U	U	M
Dichloro Butane	R	U	U	U	U	U	U	R
Diesel Oil	R	U	U	M	U	U	U	R
Diethyl Benzene	M	U	U	U	X	X	X	R
Diethylamine	R	R	R	R	U	M	R	U
Diethylene Glycol	R	R	R	R	U	U	R	R
Dimethyl Ether	U	U	U	M	M	R	U	U
Dimethyl Formamide	U	X	R	X	X	X	R	U
Dimethyl Phthalate	U	U	R	U	U	X	X	R
Dimethyl Terephthalate	U	U	U	U	U	U	U	R
Diocetyl Phthalate	U	U	R	U	U	U	M	R
Dioxane	U	U	R	U	U	U	U	U
Diphenyl	U	U	U	U	U	U	U	R
Dow Corning 550	R	R	R	R	R	R	R	R

*Requires special formulation of EPDM

FLUID COMPATIBILITY TABLE

Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
Dow Gard	R	R	R	R	M	M	R	R
Dowtherm A & E	U	U	U	U	U	U	U	R
Elco 28	R	U	U	M	R	R	R	R
Epoxy Resins	X	X	R	R	X	X	X	U
Ethane	R	U	U	R	R	M	U	R
Ethanol	R	R	R	R	U	R	R	R
Ethanolamine	R	R	R	R	U	M	R	U
Ethyl Acetate	U	U	R	U	U	U	R	U
Ethyl Benzene	U	U	U	U	U	U	U	R
Ethyl Cellulose	R	R	R	R	U	R	R	U
Ethyl Chloride	R	R	R	R	M	R	U	R
Ethyl Ether	M	U	M	U	U	R	U	U
Ethyl Formate	U	U	R	R	X	X	X	R
Ethyl Hexanol	M	R	R	R	X	X	X	R
Ethyl Merlaptan	U	U	X	M	X	X	M	R
Ethylene Chloride	U	U	U	U	U	U	U	R
Ethylene Glycol	R	R	R	R	U	X	R	R
Ethylene Oxide	U	U	R	U	U	U	U	U
Formaldehyde	M	M	R	M	U	U	R	U
Formic Acid	M	R	R	R	X	X	M	U
Freon 12	R	R	R	R	X	R	U	R
Fuel Oil	R	U	U	R	R	U	U	R
Furfuryl Alcohol	U	U	R	U	U	U	U	X
Furan	U	U	X	U	U	X	X	X
Furfural	U	U	R	U	U	X	U	U
Fyrquel	U	U	R	U	U	U	R	R
Gallic Acid	R	R	R	R	U	I	X	R
Gasoline	R	U	U	R	R	R	U	R
Gelatin	R	R	R	R	U	U	R	R
Glucose	R	R	R	R	X	U	R	R
Glycerine	R	R	R	R	U	U	R	R
Heptane	R	U	U	R	R	R	U	R
Hexaldehyde	U	U	R	R	X	X	R	U
Hexane	R	U	U	R	R	R	U	R
Hexanol	R	R	M	R	U	U	R	R
Home Heating Oil	R	U	U	M	R	R	R	R
Hydrazine	R	R	R	R	X	X	R	X
Hydrochloric Acid	R	M	R	R	M	U	U	R
Hydrocyanic Acid	R	R	R	R	U	X	M	R
Hydrogen Peroxide	R	R	R	R	U	X	R	R
Hydrogen Sulfide	U	U	R	R	U	X	M	U
Hydroquinone	M	U	U	U	U	X	X	R
Hypoid Gear Lube	R	U	U	M	R	R	M	R
Iodine	R	R	R	U	X	X	X	R
Iso Octane	R	U	U	R	R	R	U	R
Iso Phorone	U	U	R	U	U	U	U	U
Isocyanate	X	X	X	X	X	X	X	R
Isopar	R	X	U	R	R	R	U	R
Isopropanol	R	R	R	R	U	U	R	R
Isopropyl Acetate	U	U	R	U	U	U	U	U

Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
JP-4(MIL-J-5624)	R	U	U	U	R	R	U	R
JP-4(MIL-J-5624)	R	U	U	U	R	R	U	R
Kerosene	R	U	U	R	R	R	U	R
Lacquers	U	U	U	U	U	U	U	U
Lactic Acid	R	R	R	R	U	X	X	R
Lard	R	U	R	R	R	R	R	R
Linoleic Acid	R	U	U	R	X	X	R	R
Linseed Oil	R	U	M	M	R	X	R	R
Lye Solutions	R	R	R	R	U	U	R	R
Malathion	R	U	U	X	X	X	U	R
Maleic Acid	U	U	U	U	U	X	X	R
Mercury	R	R	R	R	X	X	X	R
Meter-Cresol	U	U	U	R	U	U	U	R
Methacrylic Acid	U	U	R	R	U	U	U	M
Methane	R	U	U	R	R	M	U	R
Methanol	R	R	R	R	U	U	U	U
Methyl Acetate	U	U	R	R	U	U	U	U
Methyl Cellosolve	M	U	R	R	U	U	U	M
Methyl Ether Ketone	U	U	R	U	U	U	U	U
Methyl Mercaptan	X	X	R	X	X	X	X	X
Methylene Chloride	U	U	U	U	U	U	U	R
Milk	R	R	R	R	U	U	R	R
Mineral Oil	R	U	M	R	R	R	R	R
Mineral Spirits	R	U	U	U	R	R	U	R
Monovinyl Acetylene	R	R	R	R	X	X	R	R
Mustard	X	R	R	X	X	X	R	R
Naphtha	R	U	U	U	R	R	U	R
Naphthalene	U	U	U	U	X	X	U	R
Naphthenic Acid	R	U	U	U	X	X	U	R
Natural Gas	R	R	U	R	R	R	R	R
Neatsfoot Oil	R	U	R	U	R	R	R	R
Nitric Acid	U	M	R	U	U	U	U	M
Nitrobenzene	U	U	U	U	U	U	U	R
Nitropropane	U	U	R	U	U	U	U	U
Octane	R	U	U	U	U	U	U	R
Octanol	R	R	R	R	U	U	R	R
Oleic Acid	M	U	U	M	X	X	U	R
Oleum	R	U	U	M	X	X	U	R
Oronite 8200	R	U	U	R	X	R	U	R
Oxalic Acid	R	R	R	R	R	X	X	R
Peanut Oil	R	U	M	M	R	X	R	R
Pentane	R	M	U	R	R	U	U	R
Perchlorethylene	R	U	U	U	U	U	U	R
Petroleum Ether	U	U	U	U	U	U	U	R
Phenol	U	U	U	U	U	U	U	R
Phenylhydrazine	U	M	U	U	U	X	X	R
Phosphoric Acid	R	R	R	R	M	U	R	R
Pine Oil	R	U	U	U	U	X	X	R
Potassium Hydroxide	R	R	R	R	U	U	M	U
Propane	R	U	U	R	R	M	U	R

FLUID COMPATIBILITY TABLE

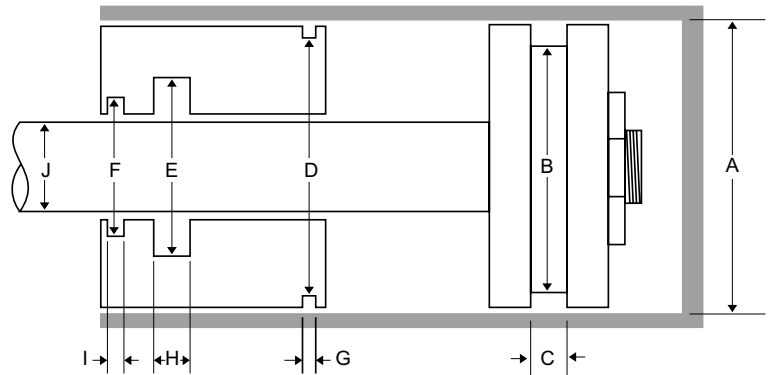
Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
Propanol	R	R	R	R	U	U	R	R
Propyl Acetate	U	U	R	U	U	U	U	U
Propylene Glycol	R	R	R	M	U	M	R	R
Pydraul	U	U	R	U	U	U	U	R
Pyranol	R	U	U	R	R	R	U	R
Pyridine	U	R	U	U	U	X	U	U
Rapeseed Oil	R	U	R	R	R	R	U	R
Resurcinol	X	R	R	X	X	X	X	X
SAE 10W30	R	U	U	M	R	R	R	R
Seawater	R	R	R	R	U	U	R	X
Silicone Grease	R	R	R	R	R	R	R	R
Silver Nitrate	R	R	R	R	R	R	R	R
Skelly Solvent	R	U	U	U	X	X	X	R
Skydrol	U	U	R	U	U	U	U	R
Skydrol 500	U	U	R	U	U	U	U	R
Sodium Hydroxide	R	R	R	R	U	R	R	R
Sovasol	R	U	U	R	R	R	U	R
Soy Bean Oil	R	U	M	M	R	X	R	R
Stearic Acid	R	R	R	R	R	U	U	R
Stoddard Solvent	R	U	U	R	R	R	U	R
Sucrose	R	R	R	R	U	U	R	R

Fluid	Nitrile	SBR	EPDM	Neoprene	Polyacrylate	Urethane	Silicone	Fluoroelastomer
Sulfuric Acid	R	R	R	R	R	U	U	R
Tall Oil	R	U	U	M	R	U	X	R
Tannic Acid	R	R	R	R	U	X	R	R
Tar	R	U	U	M	U	X	R	R
Tartaric Acid	R	R	R	R	X	X	R	R
Tetrachloro Ethane	U	U	U	U	U	U	U	R
Tetralin	U	U	U	U	U	U	U	R
Tidewater Oil	R	U	U	R	R	R	R	R
Toluene	U	U	U	U	U	U	U	R
Trichloro Ethylene	M	U	U	U	U	U	U	R
Triethanol Amine	M	R	R	R	U	U	X	U
Turbine Oil	R	U	U	U	R	R	U	R
Turpentine	R	U	U	U	R	U	U	R
UCDN 50HB280X	R	R	R	R	X	X	R	R
Univis J-43	R	U	U	R	R	R	U	R
Varnish	R	U	U	U	U	M	U	R
Vinegar	R	R	R	R	U	U	R	R
Water	R	R	R	R	U	U	R	R
Wheat Germ Oil	R	U	U	M	R	R	R	R
Whiskey & Wine	R	R	R	R	U	U	R	R
Wood Oil	R	U	U	R	X	M	U	R

HOW OFTEN HAVE YOU RECEIVED A CYLINDER FOR REPAIR AND THE SEALS WERE . . .

- MISSING • COOKED • INCORRECT
- EXTRUDED • NIBBLED • TWISTED
- ROLLED • SPLIT • WORN OUT

The chart below can be used by your counter people, repair shops, or sales people to determine the seals you need. Note the dimensions, refer to your Hercules® Sealing Products Catalog, and call our sales staff with your information. If the part number(s) you need can't be located in the catalog, our Sales personnel will be glad to help you .



Call us TOLL FREE! 1-800-665-7325

FOR A PROFESSIONAL ANALYSIS OF SEAL FAILURE, SEND YOUR DAMAGED SEALS TO OUR ENGINEERING DEPARTMENT.

PISTON SEALS AND BEARINGS

DIAGRAM REFERENCE

A = Bore = Nominal Seal O.D.
B = Groove Diameter = Nominal Seal I.D.
C = Groove Width = Nominal Seal Width

DIMENSIONS

ROD SEALS AND BEARINGS

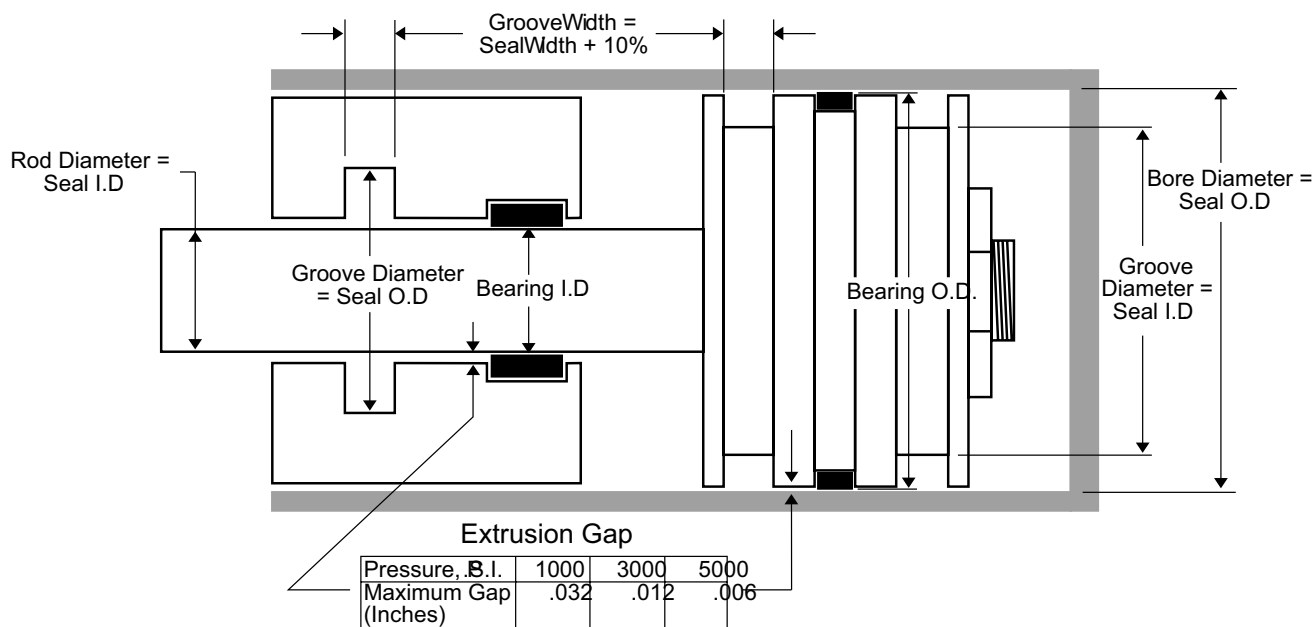
DIAGRAM REFERENCE

D = Gland Groove Diameter = Nominal Seal I.D.
E = Rod Seal Groove Diameter = Nominal Seal O.D.
F = Wiper Groove Diameter = Nominal Wiper O.D.
G = Gland Groove Width = Nominal Seal Width
H = Rod Seal Groove Width = Nominal Seal Width
I = Wiper Groove Width = Base Width
J = Rod Diameter = Seal & Nominal Wiper I.D.

DIMENSIONS

COPY FOR SHOP & COUNTER USE

GROOVE DIMENSIONS FOR URETHANE U-SEALS



ROD AND ROD GROOVE DIMETERS

ROD DIAM RANGE, IN.	ROD DIAM. TOLERANCE	GROOVE DIAM TOLERANCE	MAX DIAMETRICAL CLEARANCE		
			1000 PSI	3000 PSI	5000 PSI
.125 - .687	+ .0 / -.002	+ .004 / -.0	.008	.006	.004
.750 - 2.875	+ .0 / -.003	+ .008 / -.0	.012	.008	.004
3.000 - 7.000	+ .0 / -.004	+ .010 / -.0	.014	.010	-
7.000 - 7.750	+ .0 / -.005	+ .011 / -.0	.016	.010	-
8.000 - 9.500	+ .0 / -.005	+ .012 / -.0	.016	-	-
10.000 - 15.000	+ .0 / -.006	+ .015 / -.0	.016	-	-

BORE AND PISTON GROOVE DIMETERS

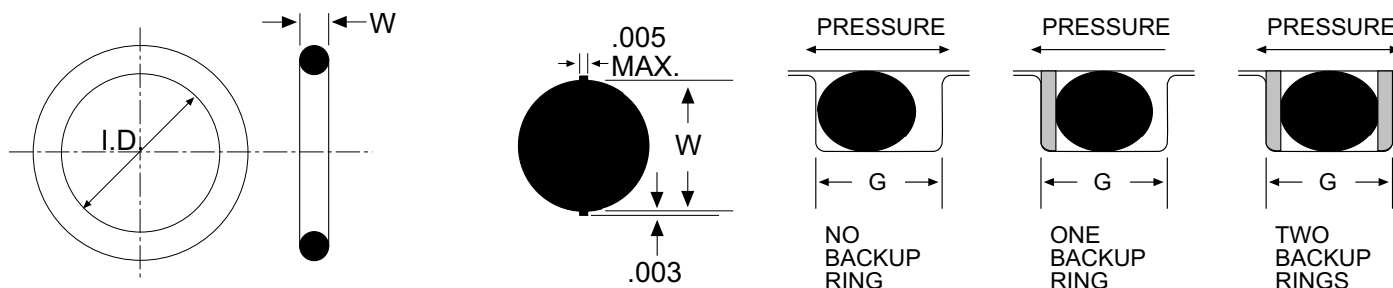
BORE DIAM RANGE, IN.	BORE DIAM. TOLERANCE	GROOVE DIAM TOLERANCE	MAX DIAMETRICAL CLEARANCE		
			1000 PSI	3000 PSI	5000 PSI
.750 - 1.062	+ .003 / -.0	+ .0 / -.004	.010	.008	.004
1.125 - 1.625	+ .003 / -.0	+ .0 / -.005	.010	.008	.004
1.750 - 2.500	+ .003 / -.0	+ .0 / -.007	.012	.008	.004
2.625 - 2.875	+ .003 / -.0	+ .0 / -.008	.012	.008	.005
3.000 - 3.500	+ .004 / -.0	+ .0 / -.008	.014	.010	-
3.625 - 5.625	+ .004 / -.0	+ .0 / -.009	.014	.010	-
5.750 - 6.750	+ .004 / -.0	+ .0 / -.010	.014	.010	-
7.000 - 8.500	+ .005 / -.0	+ .0 / -.011	.016	.010	-
9.000 - 11.000	+ .005 / -.0	+ .0 / -.011	.016	-	-
12.000 - 16.000	+ .006 / -.0	+ .0 / -.012	.018	-	-

METRIC / INCH CONVERSION TABLE

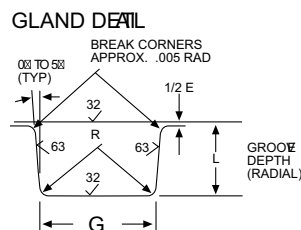
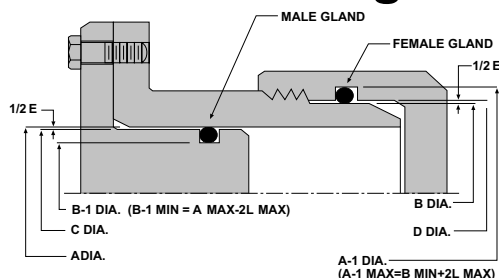
FRACTIONS, DECIMALS AND MILLIMETERS

Inches			Inches			Inches			Inches		
Fractions	Decimals	M M	Fractions	Decimals	M M	Fractions	Decimals	M M	Fractions	Decimals	M M
—	.0004	.01	25/32	.781	19.844	—	2.165	55.0	3-11/16	3.6875	93.663
—	.004	.10	—	.7874	20.0	2-3/16	2.1875	55.563	—	3.7008	94.0
—	.01	.25	51/64	.797	20.241	—	2.2047	56.0	3-23/32	3.719	94.456
1/64	.0156	.397	13/16	.8125	20.638	2-7/32	2.219	56.356	—	3.7401	95.0
—	.0197	.50	—	.8268	21.0	—	2.244	57.0	3-3/4	3.750	95.250
—	.0295	.75	53/64	.828	21.034	2-1/4	2.250	57.150	—	3.7795	96.0
1/32	.03125	.794	27/32	.844	21.431	2-9/32	2.281	57.944	3-25/32	3.781	96.044
—	.0394	1.0	55/64	.859	21.828	—	2.2835	58.0	3-13/16	3.8125	96.838
3/64	.0469	1.191	—	.8661	22.0	2-5/16	2.312	58.738	—	3.8189	97.0
—	.059	1.5	7/8	.875	22.225	—	2.3228	59.0	3-27/32	3.844	97.631
1/16	.062	1.588	57/64	.8906	22.622	2-11/32	2.344	59.531	—	3.8583	98.0
5/64	.0781	1.984	—	.9055	23.0	—	2.3622	60.0	3-7/8	3.875	98.425
—	.0787	2.0	29/32	.9062	23.019	2-3/8	2.375	60.325	—	3.8976	99.0
3/32	.094	2.381	59/64	.922	23.416	—	2.4016	61.0	3-29/32	3.9062	99.219
—	.0984	2.5	15/16	.9375	23.813	2-13/32	2.406	61.119	—	3.9370	100.0
7/64	.109	2.778	—	.9449	24.0	2-7/16	2.438	61.913	3-15/16	3.9375	100.013
—	.1181	3.0	61/64	.953	24.209	—	2.4409	62.0	3-31/32	3.969	100.806
1/8	.125	3.175	31/32	.969	24.606	2-15/32	2.469	62.706	—	3.9764	101.0
—	.1378	3.5	—	.9843	25.0	—	2.4803	63.0	4	4.000	101.600
9/64	.141	3.572	63/64	.9844	25.003	2-1/2	2.500	63.500	4-1/16	4.062	103.188
5/32	.156	3.969	1	1.000	25.400	—	2.5197	64.0	4-1/8	4.125	104.775
—	.1575	4.0	—	1.0236	26.0	2-17/32	2.531	64.294	—	4.1338	105.0
11/64	.172	4.366	1-1/32	1.0312	26.194	—	2.559	65.0	4-3/16	4.1875	106.363
—	.177	4.5	1-1/16	1.062	26.988	2-9/16	2.562	65.088	4-1/4	4.250	107.950
3/16	.1875	4.763	—	1.063	27.0	2-19/32	2.594	65.881	4-5/16	4.312	109.538
—	.1969	5.0	1-3/32	1.094	27.781	—	2.5984	66.0	—	4.3307	110.0
13/64	.203	5.159	—	1.1024	28.0	2-5/8	2.625	66.675	4-3/8	4.375	111.125
—	.2165	5.5	1-1/8	1.125	28.575	—	2.638	67.0	4-7/16	4.438	112.713
7/32	.219	5.556	—	1.1417	29.0	2-21/32	2.656	67.469	4-1/2	4.500	114.300
15/64	.234	5.953	1-5/32	1.156	29.369	—	2.6772	68.0	—	4.5275	115.0
—	.2362	6.0	—	1.1811	30.0	2-11/16	2.6875	68.263	4-9/16	4.562	115.888
1/4	.250	6.350	1-3/16	1.1875	30.163	—	2.7165	69.0	4-5/8	4.625	117.475
—	.2559	6.5	1-7/32	1.219	30.956	2-23/32	2.719	69.056	4-11/16	4.6875	119.063
17/64	.2656	6.747	—	1.2205	31.0	2-3/4	2.750	69.850	—	4.7244	120.0
—	.2756	7.0	1-1/4	1.250	31.750	—	2.7559	70.0	4-3/4	4.750	120.650
9/32	.281	7.144	—	1.2598	32.0	2-25/32	2.781	70.6439	4-13/16	4.8125	122.238
—	.2853	7.5	1-9/32	1.281	32.544	—	2.7953	71.0	4-7/8	4.875	123.825
19/64	.297	7.541	—	1.2992	33.0	2-13/16	2.8125	71.4376	—	4.9212	125.0
5/16	.312	7.938	1-5/16	1.312	33.338	—	2.8346	72.0	4-15/16	4.9375	125.413
—	.315	8.0	—	1.3386	34.0	2-27/32	2.844	72.2314	5	5.000	127.000
21/64	.328	8.334	1-11/32	1.344	34.131	—	2.8740	73.0	—	5.1181	130.0
—	.335	8.5	1-3/8	1.375	34.925	2-7/8	2.875	73.025	5-1/4	5.250	133.350
11/32	.344	8.731	—	1.3779	35.0	2-29/32	2.9062	73.819	5-1/2	5.500	139.700
—	.3543	9.0	1-13/32	1.406	35.719	—	2.9134	74.0	—	5.5118	140.0
23/64	.359	9.128	—	1.4173	36.0	2-15/16	2.9375	74.613	5-3/4	5.750	146.050
—	.374	9.5	1-7/16	1.438	36.513	—	2.9527	75.0	—	5.9055	150.0
3/8	.375	9.525	—	1.4567	37.0	2-31/32	2.969	75.406	6	6.000	152.400
25/64	.391	9.922	1-15/32	1.469	37.306	—	2.9921	76.0	6-1/4	6.250	158.750
—	.3937	10.0	—	1.4961	38.0	3	3.000	76.200	—	6.2992	160.0
13/32	.406	10.319	1-1/2	1.500	38.100	3-1/32	3.0312	76.994	6-1/2	6.500	165.100
—	.413	10.5	1-17/32	1.531	38.894	—	3.0315	77.0	—	6.6929	170.0
27/64	.422	10.716	—	1.5354	39.0	3-1/16	3.062	77.788	6-3/4	6.750	171.450
—	.4331	11.0	1-9/16	1.562	39.688	—	3.0709	78.0	7	7.000	177.800
7/16	.438	11.113	—	1.5748	40.0	3-3/32	3.094	78.581	—	7.0866	180.0
29/64	.453	11.509	1-19/32	1.594	40.481	—	3.1102	79.0	—	7.4803	190.0
15/32	.469	11.906	—	1.6142	41.0	3-1/8	3.125	79.581	7-1/2	7.500	190.500
—	.4724	12.0	1-5/8	1.625	41.275	—	3.1496	80.0	—	7.8740	200.0
31/64	.484	12.303	—	1.6535	42.0	3-5/32	3.156	80.169	8	8.000	203.200
—	.492	12.5	1-21/32	1.6562	42.069	3-3/16	3.1875	80.963	—	8.2677	210.0
1/2	.500	12.700	1-11/16	1.6875	42.863	—	3.1890	81.0	8-1/2	8.500	215.900
—	.5118	13.0	—	1.6929	43.0	3-7/32	3.219	81.756	—	8.6614	220.0
33/64	.5156	13.097	1-23/32	1.719	43.656	—	3.2283	82.0	9	9.000	228.600
17/32	.531	13.494	—	1.7323	44.0	3-1/4	3.250	82.550	—	9.0551	230.0
35/64	.547	13.891	1-3/4	1.750	44.450	—	3.2677	83.0	—	9.4488	240.0
—	.5512	14.0	—	1.7717	45.0	3-9/32	3.281	83.344	9-1/2	9.500	241.300
9/16	.563	14.288	1-25/32	1.781	45.244	—	3.3071	84.0	—	9.8425	250.0
—	.571	14.5	—	1.8110	46.0	3-5/16	3.312	84.1377	10	10.000	254.00
37/64	.578	14.684	1-13/16	1.8125	46.038	3-11/32	3.344	84.9314	—	10.2362	260.0
—	.5906	15.0	1-27/32	1.844	46.831	—	3.3464	85.0	—	10.6299	270.0
19/32	.594	15.081	—	1.8504	47.0	3-3/8	3.375	85.725	11	11.000	279.40
39/64	.609	15.478	1-7/8	1.875	47.625	—	3.3858	86.0	—	11.0236	280.0
5/8	.625	15.875	—	1.8898	48.0	3-13/32	3.406	86.519	—	11.4173	290.0
—	.6299	16.0	1-29/32	1.9062	48.419	—	3.4252	87.0	—	11.8110	300.0
41/64	.6406	16.272	—	1.9291	49.0	3-7/16	3.438	87.313	12	12.000	304.80
—	.6496	16.5	1-15/16	1.9375	49.213	—	3.4648	88.0	13	13.000	330.20
21/32	.658	16.669	—	1.9685	50.0	3-15/32	3.469	88.108	—	13.7795	350.0
—	.6693	17.0	1-31/32	1.969	50.006	3-1/2	3.500	88.900	14	14.000	355.60
43/64	.672	17.066	2	2.000	50.800	—	3.5039	89.0	15	15.000	381.00
11/16	.6875	17.463	—	2.0079	51.0	3-17/32	3.531	89.694	—	15.7480	400.0
45/64	.703	17.859	2-1/32	2.03125	51.594	—	3.5433	90.0	16	16.000	406.40
—	.7087	18.0	—	2.0472	52.0	3-9/16	3.562	90.4877	17	17.000	431.80
23/32	.719	18.256	2-1/6	2.062	52.388	—	3.5827	91.0	—	17.7165	450.0
—	.7283	18.5	—	2.0866	53.0	3-19/32	3.594	91.281	18	18.000	457.20
47/64	.734	18.653	2-3/32	2.094	53.181	—	3.622	92.0	19	19.000	482.60
—	.7480	19.0	2-1/8	2.125	53.975	3-5/8	3.625	92.075	—	19.6850	500.0
3/4	.750	19.050	—	2.126	54.0	3-21/32	3.656	92.869	20	20.000	508.00
49/64	.7656	19.447	2-5/32	2.156	54.769	—	3.6614	93.0	—	—	—

O-RING GLAND DIMENSIONS



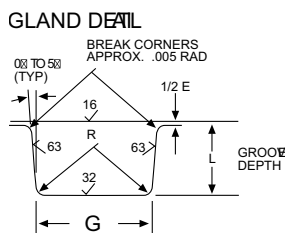
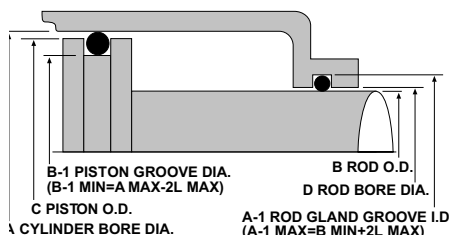
O-Ring Gland Design For Static Seals



- A – Bore Dia. (male gland)
- A-1 – Groove Dia. (female gland)
- B – Tube OD (female gland)
- B-1 – Groove Dia. (male gland)
- C – Plug Dia. (male gland)
- D – Throat Dia. (female gland)
- E – Diametrical Clearance

W O-RING CROSS SECTION	L GROOVE DEPTH		SQUEEZE				E DIAMETRICAL CLEARANCE MAX.	G GROOVE WIDTH ± .005			R GROOVE RADIUS	ECCEN- TRICITY MAX.
			RADIAL		AXIAL			NO BACKUP RING	ONE BACKUP RING	TWO BACKUP RINGS		
	RADIAL	AXIAL	INCHES	%	INCHES	%						
.070	.050-.052	.050 -.054	.015-.023	22-23	.013-.023	19-32	.004	.095	.140	.207	.005-.015	.002
.103	.081-.083	.074-.080	.017-.025	17-24	.020-.032	20-30	.005	.142	.173	.240	.005-.015	.002
.139	.111-.113	.101-.107	.022-.032	16-23	.028-.042	20-30	.006	.189	.210	.277	.010-.025	.003
.210	.170-.173	.152-.162	.032-.045	15-21	.043-.063	21-30	.006	.283	.313	.413	.020-.035	.004
.275	.226-.229	.201-.211	.040-.055	15-20	.058-.080	21-29	.007	.377	.410	.540	.020-.035	.00

O-Ring Gland Design For Reciprocating Seals



- A – Bore Dia. of Cylinder
- B – OD of Rod
- C – OD of Piston
- D – Bore Dia. for Rod

W O-RING CROSS SECTION	L GROOVE DEPTH	SQUEEZE		E DIAMETRICAL CLEARANCE MAX.	G GROOVE WIDTH ± .005			R GROOVE RADIUS	ECCEN- TRICITY MAX.
		INCHES	%		NO BACKUP RING	ONE BACKUP RING	TWO BACKUP RINGS		
.070	.055-.057	.010-.018	15-25	.004	.095	.140	.207	.005-.015	.002
.103	.088-.090	.010-.018	10-17	.005	.142	.173	.240	.005-.015	.002
.139	.121-.123	.012-.022	9-16	.006	.189	.210	.277	.010-.025	.003
.210	.185-.188	.017-.030	8-14	.006	.283	.313	.413	.020-.035	.004
.275	.237-.240	.029-.044	11-16	.007	.377	.410	.540	.020-.035	.005

O-RING SIZE CHART AND INSTALLATION DATA

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-001	1/32	3/32	1/32	.029±.004	.040±.003
-001 1/2	1/16	1/8	1/32	.070±.004	.040±.003
-002	3/64	9/64	3/64	.042±.004	.050±.003
-003	1/16	3/16	1/16	.056±.004	.060±.003
-004	5/64	13/64	1/16	.070±.005	.070±.003
-005	3/32	7/32	1/16	.101±.005	.070±.003
-006	1/8	1/4	1/16	.114±.005	.070±.003
-007	5/32	9/32	1/16	.145±.005	.070±.003
-008	3/16	5/16	1/16	.176±.005	.070±.003
-009	7/32	11/32	1/16	.208±.005	.070±.003
-010	1/4	3/8	1/16	.239±.005	.070±.003
-011	5/16	7/16	1/16	.301±.005	.070±.003
-012	3/8	1/2	1/16	.364±.005	.070±.003
-013	7/16	9/16	1/16	.426±.005	.070±.003
-014	1/2	5/8	1/16	.489±.005	.070±.003
-015	9/16	11/16	1/16	.551±.007	.070±.003
-016	5/8	3/4	1/16	.614±.009	.070±.003
-017	11/16	13/16	1/16	.676±.009	.070±.003
-018	3/4	7/8	1/16	.739±.009	.070±.003
-019	13/16	15/16	1/16	.801±.009	.070±.003
-020	7/8	1	1/16	.864±.009	.070±.003
-021	15/16	1 1/16	1/16	.926±.009	.070±.003
-022	1	1 1/8	1/16	.989±.010	.070±.003
-023	1 1/16	1 3/16	1/16	1.051±.010	.070±.003
-024	1 1/8	1 1/4	1/16	1.114±.010	.070±.003
-025	1 3/16	1 5/16	1/16	1.176±.011	.070±.003
-026	1 1/4	1 3/8	1/16	1.239±.011	.070±.003
-027	1 5/16	1 7/16	1/16	1.301±.011	.070±.003
-028	1 3/8	1 1/2	1/16	1.364±.013	.070±.003
-029	1 1/2	1 5/8	1/16	1.489±.013	.070±.003
-030	1 5/8	1 3/4	1/16	1.614±.013	.070±.003
-031	1 3/4	1 7/8	1/16	1.739±.015	.070±.003
-032	1 7/8	2	1/16	1.864±.015	.070±.003
-033	2	2 1/8	1/16	1.989±.018	.070±.003
-034	2 1/8	2 1/4	1/16	2.114±.018	.070±.003
-035	2 1/4	2 3/8	1/16	2.239±.018	.070±.003
-036	2 3/8	2 1/2	1/16	2.364±.018	.070±.003
-037	2 1/2	2 5/8	1/16	2.489±.018	.070±.003
-038	2 5/8	2 3/4	1/16	2.614±.020	.070±.003
-039	2 3/4	2 7/8	1/16	2.739±.020	.070±.003
-040	2 7/8	3	1/16	2.864±.020	.070±.003
-041	3	3 1/8	1/16	2.989±.024	.070±.003
-042	3 1/4	3 3/8	1/16	3.239±.024	.070±.003
-043	3 1/2	3 5/8	1/16	3.489±.024	.070±.003
-044	3 3/4	3 7/8	1/16	3.739±.027	.070±.003
-045	4	4 1/8	1/16	3.989±.027	.070±.003
-046	4 1/4	4 3/8	1/16	4.239±.030	.070±.003

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-047	4 1/2	4 5/8	1/16	4.489±.030	.070±.003
-048	4 3/4	4 7/8	1/16	4.739±.030	.070±.003
-049	5	5 1/8	1/16	4.989±.037	.070±.003
-050	5 1/4	5 3/8	1/16	5.239±.037	.070±.003
-102	1/16	1/4	3/32	.049±.005	.103±.003
-103	3/32	9/32	3/32	.081±.005	.103±.003
-104	1/8	5/16	3/32	.112±.005	.103±.003
-105	5/32	11/32	3/32	.143±.005	.103±.003
-106	3/16	3/8	3/32	.174±.005	.103±.003
-107	7/32	13/32	3/32	.206±.005	.103±.003
-108	1/4	7/16	3/32	.237±.005	.103±.003
-109	5/16	1/2	3/32	.299±.005	.103±.003
-110	3/8	9/16	3/32	.362±.005	.103±.003
-111	7/16	5/8	3/32	.424±.005	.103±.003
-112	1/2	11/16	3/32	.487±.005	.103±.003
-113	9/16	3/4	3/32	.549±.005	.103±.003
-114	5/8	13/16	3/32	.612±.009	.103±.003
-115	11/16	7/8	3/32	.674±.009	.103±.003
-116	3/4	15/16	3/32	.737±.009	.103±.003
-117	13/16	1	3/32	.799±.010	.103±.003
-118	7/8	1 1/16	3/32	.862±.010	.103±.003
-119	15/16	1 1/8	3/32	.924±.010	.103±.003
-120	1	1 3/16	3/32	.987±.010	.103±.003
-121	1 1/16	1 1/4	3/32	1.049±.010	.103±.003
-122	1 1/8	1 5/16	3/32	1.112±.010	.103±.003
-123	1 3/16	1 3/8	3/32	1.174±.012	.103±.003
-124	1 1/4	1 7/16	3/32	1.237±.012	.103±.003
-125	1 5/16	1 1/2	3/32	1.299±.012	.103±.003
-126	1 3/8	1 9/16	3/32	1.362±.012	.103±.003
-127	1 7/16	1 5/8	3/32	1.424±.012	.103±.003
-128	1 1/2	1 11/16	3/32	1.487±.012	.103±.003
-129	1 9/16	1 3/4	3/32	1.549±.015	.103±.003
-130	1 5/8	1 13/16	3/32	1.612±.015	.103±.003
-131	1 11/16	1 7/8	3/32	1.674±.015	.103±.003
-132	1 3/4	1 15/16	3/32	1.737±.015	.103±.003
-133	1 13/16	2	3/32	1.799±.015	.103±.003
-134	1 7/8	2 1/16	3/32	1.862±.015	.103±.003
-135	1 15/16	2 1/8	3/32	1.925±.017	.103±.003
-136	2	2 3/16	3/32	1.987±.017	.103±.003
-137	2 1/16	2 1/4	3/32	2.050±.017	.103±.003
-138	2 1/8	2 5/16	3/32	2.112±.017	.103±.003
-139	2 3/16	2 3/8	3/32	2.175±.017	.103±.003
-140	2 1/4	2 7/16	3/32	2.237±.017	.103±.003
-141	2 5/16	2 1/2	3/32	2.300±.020	.103±.003
-142	2 3/8	2 9/16	3/32	2.362±.020	.103±.003
-143	2 7/16	2 5/8	3/32	2.425±.020	.103±.003
-144	2 1/2	2 11/16	3/32	2.487±.020	.103±.003

O-RING SIZE CHART AND INSTALLATION DATA

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-145	2 9/16	2 3/4	3/32	2.550±.020	.103±.003
-146	2 5/8	2 13/16	3/32	2.612±.020	.103±.003
-147	2 11/16	2 7/8	3/32	2.675±.022	.103±.003
-148	2 3/4	2 15/16	3/32	2.737±.022	.103±.003
-149	2 13/16	3	3/32	2.800±.022	.103±.003
-150	2 7/8	3 1/16	3/32	2.862±.022	.103±.003
-151	3	3 3/16	3/32	2.987±.024	.103±.003
-152	3 1/4	3 7/16	3/32	3.237±.024	.103±.003
-153	3 1/2	3 11/16	3/32	3.487±.024	.103±.003
-154	3 3/4	3 15/16	3/32	3.737±.028	.103±.003
-155	4	4 3/16	3/32	3.987±.028	.103±.003
-156	4 1/4	4 7/16	3/32	4.237±.030	.103±.003
-157	4 1/2	4 11/16	3/32	4.487±.030	.103±.003
-158	4 3/4	4 15/16	3/32	4.737±.030	.103±.003
-159	5	5 3/16	3/32	4.987±.035	.103±.003
-160	5 1/4	5 7/16	3/32	5.237±.035	.103±.003
-161	5 1/2	5 11/16	3/32	5.487±.035	.103±.003
-162	5 3/4	5 15/16	3/32	5.737±.035	.103±.003
-163	6	6 3/16	3/32	5.987±.035	.103±.003
-164	6 1/4	6 7/16	3/32	6.237±.040	.103±.003
-165	6 1/2	6 11/16	3/32	6.487±.040	.103±.003
-166	6 3/4	6 15/16	3/32	6.737±.040	.103±.003
-167	7	7 3/16	3/32	6.987±.040	.103±.003
-168	7 1/4	7 7/16	3/32	7.237±.045	.103±.003
-169	7 1/2	7 11/16	3/32	7.487±.045	.103±.003
-170	7 3/4	7 15/16	3/32	7.737±.045	.103±.003
-171	8	8 3/16	3/32	7.987±.045	.103±.003
-172	8 1/4	8 7/16	3/32	8.237±.050	.103±.003
-173	8 1/2	8 11/16	3/32	8.487±.050	.103±.003
-174	8 3/4	8 15/16	3/32	8.737±.050	.103±.003
-175	9	9 3/16	3/32	8.987±.050	.103±.003
-176	9 1/4	9 7/16	3/32	9.237±.055	.103±.003
-177	9 1/2	9 11/16	3/32	9.487±.055	.103±.003
-178	9 3/4	9 15/16	3/32	9.737±.055	.103±.003
-201	3/16	7/16	1/8	.171±.005	.139±.004
-202	1/4	1/2	1/8	.234±.005	.139±.004
-203	5/16	9/16	1/8	.296±.005	.139±.004
-204	3/8	5/8	1/8	.359±.005	.139±.004
-205	7/16	11/16	1/8	.421±.005	.139±.004
-206	1/2	3/4	1/8	.484±.005	.139±.004
-207	9/16	13/16	1/8	.546±.007	.139±.004
-208	5/8	7/8	1/8	.609±.009	.139±.004
-209	11/16	15/16	1/8	.671±.009	.139±.004
-210	3/4	1	1/8	.734±.010	.139±.004
-211	13/16	1 1/16	1/8	.796±.010	.139±.004
-212	7/8	1 1/8	1/8	.859±.010	.139±.004
-213	15/16	1 3/16	1/8	.921±.010	.139±.004

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-214	1	1 1/4	1/8	.984±.010	.139±.004
-215	1 1/16	1 5/16	1/8	1.046±.010	.139±.004
-216	1 1/8	1 3/8	1/8	1.109±.012	.139±.004
-217	1 3/16	1 7/16	1/8	1.171±.012	.139±.004
-218	1 1/4	1 1/2	1/8	1.234±.012	.139±.004
-219	1 5/16	1 9/16	1/8	1.296±.012	.139±.004
-220	1 3/8	1 5/8	1/8	1.359±.012	.139±.004
-221	1 7/16	1 11/16	1/8	1.421±.012	.139±.004
-222	1 1/2	1 3/4	1/8	1.484±.015	.139±.004
-223	1 5/8	1 7/8	1/8	1.609±.015	.139±.004
-224	1 3/4	2	1/8	1.734±.015	.139±.004
-225	1 7/8	2 1/8	1/8	1.859±.018	.139±.004
-226	2	2 1/4	1/8	1.984±.018	.139±.004
-227	2 1/8	2 3/8	1/8	2.109±.018	.139±.004
-228	2 1/4	2 1/2	1/8	2.234±.020	.139±.004
-229	2 3/8	2 5/8	1/8	2.359±.020	.139±.004
-230	2 1/2	2 3/4	1/8	2.484±.020	.139±.004
-231	2 5/8	2 7/8	1/8	2.609±.020	.139±.004
-232	2 3/4	3	1/8	2.734±.024	.139±.004
-233	2 7/8	3 1/8	1/8	2.859±.024	.139±.004
-234	3	3 1/4	1/8	2.984±.024	.139±.004
-235	3 1/8	3 3/8	1/8	3.109±.024	.139±.004
-236	3 1/4	3 1/2	1/8	3.234±.024	.139±.004
-237	3 3/8	3 5/8	1/8	3.359±.024	.139±.004
-238	3 1/2	3 3/4	1/8	3.484±.024	.139±.004
-239	3 5/8	3 7/8	1/8	3.609±.028	.139±.004
-240	3 3/4	4	1/8	3.734±.028	.139±.004
-241	3 7/8	4 1/8	1/8	3.859±.028	.139±.004
-242	4	4 1/4	1/8	3.984±.028	.139±.004
-243	4 1/8	4 3/8	1/8	4.109±.028	.139±.004
-244	4 1/4	4 1/2	1/8	4.234±.030	.139±.004
-245	4 3/8	4 5/8	1/8	4.359±.030	.139±.004
-246	4 1/2	4 3/4	1/8	4.484±.030	.139±.004
-247	4 5/8	4 7/8	1/8	4.609±.030	.139±.004
-248	4 3/4	5	1/8	4.734±.030	.139±.004
-249	4 7/8	5 1/8	1/8	4.859±.035	.139±.004
-250	5	5 1/4	1/8	4.984±.035	.139±.004
-251	5 1/8	5 3/8	1/8	5.109±.035	.139±.004
-252	5 1/4	5 1/2	1/8	5.234±.035	.139±.004
-253	5 3/8	5 5/8	1/8	5.359±.035	.139±.004
-254	5 1/2	5 3/4	1/8	5.484±.035	.139±.004
-255	5 5/8	5 7/8	1/8	5.609±.035	.139±.004
-256	5 3/4	6	1/8	5.734±.035	.139±.004
-257	5 7/8	6 1/8	1/8	5.859±.035	.139±.004
-258	6	6 1/4	1/8	5.984±.035	.139±.004
-259	6 1/4	6 1/2	1/8	6.234±.040	.139±.004
-260	6 1/2	6 3/4	1/8	6.484±.040	.139±.004

O-RING SIZE CHART AND INSTALLATION DATA

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-261	6 3/4	7	1/8	6.734±.040	.139±.004
-262	7	7 1/4	1/8	6.984±.040	.139±.004
-263	7 1/4	7 1/2	1/8	7.234±.045	.139±.004
-264	7 1/2	7 3/4	1/8	7.484±.045	.139±.004
-265	7 3/4	8	1/8	7.734±.045	.139±.004
-266	8	8 1/4	1/8	7.984±.045	.139±.004
-267	8 1/4	8 1/2	1/8	8.234±.050	.139±.004
-268	8 1/2	8 3/4	1/8	8.484±.050	.139±.004
-269	8 3/4	9	1/8	8.734±.050	.139±.004
-270	9	9 1/4	1/8	8.984±.050	.139±.004
-271	9 1/4	9 1/2	1/8	9.234±.055	.139±.004
-272	9 1/2	9 3/4	1/8	9.484±.055	.139±.004
-273	9 3/4	10	1/8	9.734±.055	.139±.004
-274	10	10 1/4	1/8	9.984±.055	.139±.004
-275	10 1/2	10 3/4	1/8	10.484±.055	.139±.004
-276	11	11 1/4	1/8	10.984±.065	.139±.004
-277	11 1/2	11 3/4	1/8	11.484±.065	.139±.004
-278	12	12 1/4	1/8	11.984±.065	.139±.004
-279	13	13 1/4	1/8	12.984±.065	.139±.004
-280	14	14 1/4	1/8	13.984±.065	.139±.004
-281	15	15 1/4	1/8	14.984±.065	.139±.004
-282	16	16 1/4	1/8	15.955±.075	.139±.004
-283	17	17 1/4	1/8	16.955±.080	.139±.004
-284	18	18 1/4	1/8	17.955±.085	.139±.004
-309	7/16	13/16	3/16	.412±.005	.210±.005
-310	1/2	7/8	3/16	.475±.005	.210±.005
-311	9/16	15/16	3/16	.537±.007	.210±.005
-312	5/8	1	3/16	.600±.009	.210±.005
-313	11/16	1 1/16	3/16	.662±.009	.210±.005
-314	3/4	1 1/8	3/16	.725±.010	.210±.005
-315	13/16	1 3/16	3/16	.787±.010	.210±.005
-316	7/8	1 1/4	3/16	.850±.010	.210±.005
-317	15/16	1 5/16	3/16	.912±.010	.210±.005
-318	1	1 3/8	3/16	.975±.010	.210±.005
-319	1 1/16	1 7/16	3/16	1.037±.010	.210±.005
-320	1 1/8	1 1/2	3/16	1.100±.012	.210±.005
-321	1 3/16	1 9/16	3/16	1.162±.012	.210±.005
-322	1 1/4	1 5/8	3/16	1.225±.012	.210±.005
-323	1 5/16	1 11/16	3/16	1.287±.012	.210±.005
-324	1 3/8	1 3/4	3/16	1.350±.012	.210±.005
-325	1 1/2	1 7/8	3/16	1.475±.015	.210±.005
-326	1 5/8	2	3/16	1.600±.015	.210±.005
-327	1 3/4	2 1/8	3/16	1.725±.015	.210±.005
-328	1 7/8	2 1/4	3/16	1.850±.015	.210±.005
-329	2	2 3/8	3/16	1.975±.018	.210±.005
-330	2 1/8	2 1/2	3/16	2.100±.018	.210±.005
-331	2 1/4	2 5/8	3/16	2.225±.018	.210±.005

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-332	2 3/8	2 3/4	3/16	2.350±.018	.210±.005
-333	2 1/2	2 7/8	3/16	2.475±.020	.210±.005
-334	2 5/8	3	3/16	2.600±.020	.210±.005
-335	2 3/4	3 1/8	3/16	2.725±.020	.210±.005
-336	2 7/8	3 1/4	3/16	2.850±.020	.210±.005
-337	3	3 3/8	3/16	2.975±.024	.210±.005
-338	3 1/8	3 1/2	3/16	3.100±.024	.210±.005
-339	3 1/4	3 5/8	3/16	3.225±.024	.210±.005
-340	3 3/8	3 3/4	3/16	3.350±.024	.210±.005
-341	3 1/2	3 7/8	3/16	3.475±.024	.210±.005
-342	3 5/8	4	3/16	3.600±.028	.210±.005
-343	3 3/4	4 1/8	3/16	3.725±.028	.210±.005
-344	3 7/8	4 1/4	3/16	3.850±.028	.210±.005
-345	4	4 3/8	3/16	3.975±.028	.210±.005
-346	4 1/8	4 1/2	3/16	4.100±.028	.210±.005
-347	4 1/4	4 5/8	3/16	4.225±.030	.210±.005
-348	4 3/8	4 3/4	3/16	4.350±.030	.210±.005
-349	4 1/2	4 7/8	3/16	4.475±.030	.210±.005
-350	4 5/8	5	3/16	4.600±.030	.210±.005
-351	4 3/4	5 1/8	3/16	4.725±.030	.210±.005
-352	4 7/8	5 1/4	3/16	4.850±.030	.210±.005
-353	5	5 3/8	3/16	4.975±.037	.210±.005
-354	5 1/8	5 1/2	3/16	5.100±.037	.210±.005
-355	5 1/4	5 5/8	3/16	5.225±.037	.210±.005
-356	5 3/8	5 3/4	3/16	5.350±.037	.210±.005
-357	5 1/2	5 7/8	3/16	5.475±.037	.210±.005
-358	5 5/8	6	3/16	5.600±.037	.210±.005
-359	5 3/4	6 1/8	3/16	5.725±.037	.210±.005
-360	5 7/8	6 1/4	3/16	5.850±.037	.210±.005
-361	6	6 3/8	3/16	5.975±.037	.210±.005
-362	6 1/4	6 5/8	3/16	6.225±.040	.210±.005
-363	6 1/2	6 7/8	3/16	6.475±.040	.210±.005
-364	6 3/4	7 1/8	3/16	6.725±.040	.210±.005
-365	7	7 3/8	3/16	6.975±.040	.210±.005
-366	7 1/4	7 5/8	3/16	7.225±.045	.210±.005
-367	7 1/2	7 7/8	3/16	7.475±.045	.210±.005
-368	7 3/4	8 1/8	3/16	7.725±.045	.210±.005
-369	8	8 3/8	3/16	7.975±.045	.210±.005
-370	8 1/4	8 5/8	3/16	8.225±.050	.210±.005
-371	8 1/2	8 7/8	3/16	8.475±.050	.210±.005
-372	8 3/4	9 1/8	3/16	8.725±.050	.210±.005
-373	9	9 3/8	3/16	8.975±.050	.210±.005
-374	9 1/4	9 5/8	3/16	9.225±.055	.210±.005
-375	9 1/2	9 7/8	3/16	9.475±.055	.210±.005
-376	9 3/4	10 1/8	3/16	9.725±.055	.210±.005
-377	10	10 3/8	3/16	9.975±.055	.210±.005
-378	10 1/2	10 7/8	3/16	10.475±.060	.210±.005

O-RING SIZE CHART AND INSTALLATION DATA

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-379	11	11 3/8	3/16	10.975±.060	.210±.005
-380	11 1/2	11 7/8	3/16	11.475±.065	.210±.005
-381	12	12 3/8	3/16	11.975±.065	.210±.005
-382	13	13 3/8	3/16	12.975±.065	.210±.005
-383	14	14 3/8	3/16	13.975±.070	.210±.005
-384	15	15 3/8	3/16	14.975±.070	.210±.005
-385	16	16 3/8	3/16	15.955±.075	.210±.005
-386	17	17 3/8	3/16	16.955±.080	.210±.005
-387	18	18 3/8	3/16	17.955±.085	.210±.005
-388	19	19 3/8	3/16	18.955±.090	.210±.005
-389	20	20 3/8	3/16	19.955±.095	.210±.005
-390	21	21 3/8	3/16	20.955±.095	.210±.005
-391	22	22 3/8	3/16	21.955±.100	.210±.005
-392	23	23 3/8	3/16	22.940±.105	.210±.005
-393	24	24 3/8	3/16	23.940±.110	.210±.005
-394	25	25 3/8	3/16	24.940±.115	.210±.005
-395	26	26 3/8	3/16	25.940±.120	.210±.005
-400*	1 3/8	1 7/8	1/4	1.225±.012	.275±.006
-401*	1 1/2	2	1/4	1.475±.014	.275±.006
-402*	1 5/8	2 1/8	1/4	1.600±.015	.275±.006
-403*	1 3/4	2 1/4	1/4	1.725±.016	.275±.006
-404*	1 7/8	2 3/8	1/4	1.850±.016	.275±.006
-405*	2	2 1/2	1/4	1.975±.017	.275±.006
-406*	2 1/8	2 5/8	1/4	2.100±.018	.275±.006
-407*	2 1/4	2 3/4	1/4	2.225±.018	.275±.006
-408*	2 3/8	2 7/8	1/4	2.350±.020	.275±.006
-409*	2 1/2	3	1/4	2.475±.020	.275±.006
-410*	2 5/8	3 1/8	1/4	2.600±.020	.275±.006
-411*	2 3/4	3 1/4	1/4	2.725±.022	.275±.006
-412*	2 7/8	3 3/8	1/4	2.850±.022	.275±.006
-413*	3	3 1/2	1/4	2.975±.024	.275±.006
-414*	3 1/8	3 5/8	1/4	3.100±.024	.275±.006
-415*	3 1/4	3 3/4	1/4	3.225±.024	.275±.006
-416*	3 3/8	3 7/8	1/4	3.350±.026	.275±.006
-417*	3 1/2	4	1/4	3.475±.026	.275±.006
-418*	3 5/8	4 1/8	1/4	3.600±.026	.275±.006
-419*	3 3/4	4 1/4	1/4	3.725±.028	.275±.006
-420*	3 7/8	4 3/8	1/4	3.850±.028	.275±.006
-421*	4	4 1/2	1/4	3.975±.028	.275±.006
-422*	4 1/8	4 5/8	1/4	4.100±.030	.275±.006
-423*	4 1/4	4 3/4	1/4	4.225±.030	.275±.006
-424*	4 3/8	4 7/8	1/4	4.350±.030	.275±.006
-425	4 1/2	5	1/4	4.475±.033	.275±.006
-426	4 5/8	5 1/8	1/4	4.600±.033	.275±.006
-427	4 3/4	5 1/4	1/4	4.725±.033	.275±.006
-428	4 7/8	5 3/8	1/4	4.850±.033	.275±.006
-429	5	5 1/2	1/4	4.975±.037	.275±.006

AS-568A SERIES	NOMINAL SIZE			ACTUAL DIMENSIONS	
	ID	OD	Width	ID Tol.	W. Tol.
-430	5 1/8	5 5/8	1/4	5.100±.037	.275±.006
-431	5 1/4	5 3/4	1/4	5.225±.037	.275±.006
-432	5 3/8	5 7/8	1/4	5.350±.037	.275±.006
-433	5 1/2	6	1/4	5.475±.037	.275±.006
-434	5 5/8	6 1/8	1/4	5.600±.037	.275±.006
-435	5 3/4	6 1/4	1/4	5.725±.037	.275±.006
-436	5 7/8	6 3/8	1/4	5.850±.037	.275±.006
-437	6	6 1/2	1/4	5.975±.037	.275±.006
-438	6 1/4	6 3/4	1/4	6.225±.040	.275±.006
-439	6 1/2	7	1/4	6.475±.040	.275±.006
-440	6 3/4	7 1/4	1/4	6.725±.040	.275±.006
-441	7	7 1/2	1/4	6.975±.040	.275±.006
-442	7 1/4	7 3/4	1/4	7.225±.045	.275±.006
-443	7 1/2	8	1/4	7.475±.045	.275±.006
-444	7 3/4	8 1/4	1/4	7.725±.045	.275±.006
-445	8	8 1/2	1/4	7.975±.045	.275±.006
-446	8 1/2	9	1/4	8.475±.055	.275±.006
-447	9	9 1/2	1/4	8.975±.055	.275±.006
-448	9 1/2	10	1/4	9.475±.055	.275±.006
-449	10	10 1/2	1/4	9.975±.055	.275±.006
-450	10 1/2	11	1/4	10.475±.060	.275±.006
-451	11	11 1/2	1/4	10.975±.060	.275±.006
-452	11 1/2	12	1/4	11.475±.060	.275±.006
-453	12	12 1/2	1/4	11.975±.060	.275±.006
-454	12 1/2	13	1/4	12.475±.060	.275±.006
-455	13	13 1/2	1/4	12.975±.060	.275±.006
-456	13 1/2	14	1/4	13.475±.070	.275±.006
-457	14	14 1/2	1/4	13.975±.070	.275±.006
-458	14 1/2	15	1/4	14.475±.070	.275±.006
-459	15	15 1/2	1/4	14.975±.070	.275±.006
-460	15 1/2	16	1/4	15.475±.070	.275±.006
-461	16	16 1/2	1/4	15.955±.075	.275±.006
-462	16 1/2	17	1/4	16.455±.075	.275±.006
-463	17	17 1/2	1/4	16.955±.080	.275±.006
-464	17 1/2	18	1/4	17.455±.085	.275±.006
-465	18	18 1/2	1/4	17.955±.085	.275±.006
-466	18 1/2	19	1/4	18.455±.085	.275±.006
-467	19	19 1/2	1/4	18.955±.090	.275±.006
-468	19 1/2	20	1/4	19.455±.090	.275±.006
-469	20	20 1/2	1/4	19.955±.090	.275±.006
-470	21	21 1/2	1/4	20.955±.090	.275±.006
-471	22	22 1/2	1/4	21.955±.100	.275±.006
-472	23	23 1/2	1/4	22.940±.105	.275±.006
-473	24	24 1/2	1/4	23.940±.110	.275±.006
-474	25	25 1/2	1/4	24.940±.115	.275±.006
-475	26	26 1/2	1/4	25.940±.120	.275±.006

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