



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.



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.



ATLAS

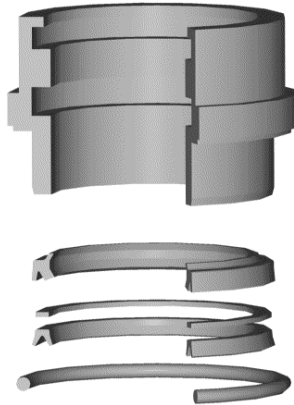
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ATLAS

Series A & L Rod Gland Kits

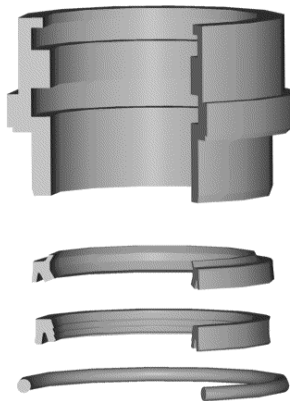
Series A & L
Cylinders
Nitrile



Kit Includes:

1 Bronze Gland
1 XNBR Wiper
1 PTFE Back-Up Ring
1 NBR U-Seal
1 NBR O-Ring

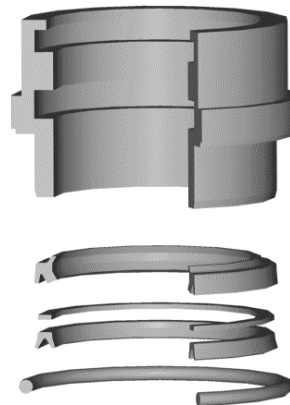
Series L
Cylinders
Urethane



Kit Includes:

1 Bronze Gland
1 XNBR Wiper
1 Multi-lip Urethane U-Seal
1 NBR O-Ring

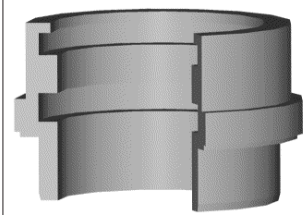
Series A & L
Cylinders
Fluorocarbon



Kit Includes:

1 Bronze Gland
1 FC Wiper
1 PTFE Back-Up Ring
1 FC U-Seal
1 FC O-Ring

Series A & L
Cylinders
Bronze



Kit Includes:

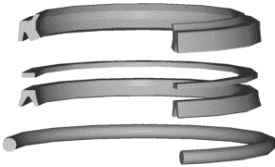
1 Bronze Gland

Rod Dia.	(NBR) Kit #	(URE) Kit #	(FC) Kit #	(BZ) Kit #
5/8"	ATL-4A06R000S	ATL-EA06R000S	ATL-4A06R000V	ATL-RGAL-06
1"	ATL-4A10R000S	ATL-EA10R000S	ATL-4A10R000V	ATL-RGAL-10
1-3/8"	ATL-4A13R000S	ATL-EA13R000S	ATL-4A13R000V	ATL-RGAL-13
1-3/4"	ATL-4A17R000S	ATL-EA17R000S	ATL-4A17R000V	ATL-RGAL-17
2"	ATL-4A20R000S	ATL-EA20R000S	ATL-4A20R000V	ATL-RGAL-20
2-1/2"	ATL-4A25R000S	ATL-EA25R000S	ATL-4A25R000V	ATL-RGAL-25
3"	ATL-4A30R000S	ATL-EA30R000S	ATL-4A30R000V	ATL-RGAL-30

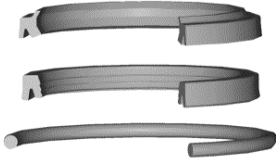
ATLAS

Series A & L Rod Seal Kits

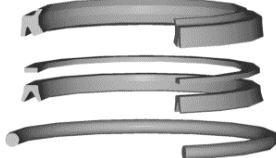
Series A Cylinders Nitrile	Series L Cylinders Urethane	Series A & L Cylinders Fluorocarbon
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Kit Includes:
 1 XNBR Wiper
 1 PTFE Back-up Ring
 1 NBR U-Seal
 1 NBR O-Ring



Kit Includes:
 1 XNBR Wiper
 1 Multi-lip Urethane U-Seal
 1 NBR O-Ring



Kit Includes:
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC U-Seal
 1 FC O-Ring

Rod Dia.	(NBR) Kit #	(URE) Kit #	(FC) Kit #
5/8"	ATL-4A06S000S	ATL-EA06S000S	ATL-4A06S000V
3/4"	ATL-4A07S000S		ATL-4A07S000V
1"	ATL-4A10S000S	ATL-EA10S000S	ATL-4A10S000V
1-3/8"	ATL-4A13S000S	ATL-EA13S000S	ATL-4A13S000V
1-3/4"	ATL-4A17S000S	ATL-EA17S000S	ATL-4A17S000V
2"	ATL-4A20S000S	ATL-EA20S000S	ATL-4A20S000V
2-1/2"	ATL-4A25S000S	ATL-EA25S000S	ATL-4A25S000V
3"	ATL-4A30S000S	ATL-EA30S000S	ATL-4A30S000V
3-1/2"	ATL-4A35S000S	ATL-EA35S000S	ATL-4A35S000V
4"	ATL-4A40S000S	ATL-EA40S000S	ATL-4A40S000V
4-1/2"	ATL-4A45S000S	ATL-EA45S000S	ATL-4A45S000V
5"	ATL-4A50S000S	ATL-EA50S000S	ATL-4A50S000V

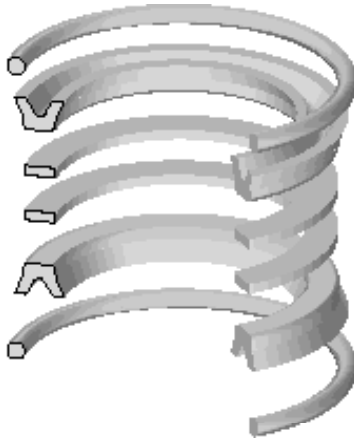
ATLAS



ATLAS

Series A & L Piston Kits

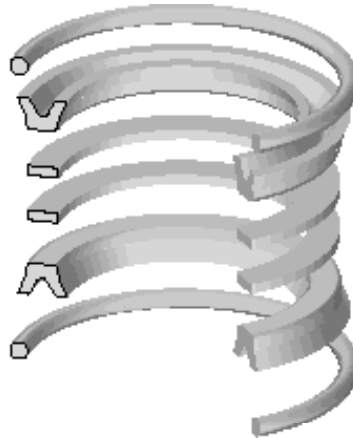
Series A Cylinders Nitrile



Kit Includes:

- 2 NBR U-Seals
- 2 HP URE Back-Up Rings
- 2 NBR O-Ring Head Seals

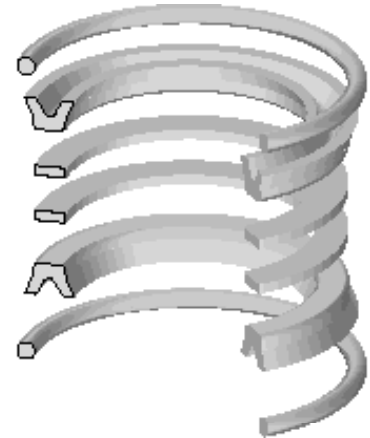
Series L Cylinders Nitrile



Kit Includes:

- 2 NBR U-Seals
- 2 HP URE Back-Up Rings
- 2 NBR O-Ring Head Seals

Series A & L Cylinders Fluorocarbon



Kit Includes:

- 2 FC U-Seals
- 2 HP URE Back-Up Rings
- 2 FC O-Ring head Seals

Bore Dia.	(NBR) Kit #	(NBR) Kit #	(FC) Kit #
1-1/2"	ATL-4B00S015S	ATL-EB00S015S	ATL-4B00S015V
2"	ATL-4B00S020S	ATL-EB00S020S	ATL-4B00S020V
2-1/2"	ATL-4B00S025S	ATL-EB00S025S	ATL-4B00S025V
3-1/4"	ATL-4B00S032S	ATL-EB00S032S	ATL-4B00S032V
4"	ATL-4B00S040S	ATL-EB00S040S	ATL-4B00S040V
5"	ATL-4B00S050S	ATL-EB00S050S	ATL-4B00S050V
6"	ATL-4B00S060S	ATL-EB00S060S	ATL-4B00S060V
7"	ATL-4B00S070S	ATL-EB00S080S	ATL-4B00S070V
8"	ATL-4B00S080S	ATL-EB00S080S	ATL-4B00S080V
10"	ATL-4B00S100S	ATL-4B00S100S	ATL-4B00S100V
12"	ATL-4B00S120S	ATL-4B00S120S	ATL-4B00S120V
14"	ATL-4B00S140S	ATL-4B00S140S	ATL-4B00S140V

HP URE - High Performance Urethane

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Series A & L Head Seal Kits

Series A & L Head Seal Kits

Nitrile

Fluorocarbon



Kit Includes:
2 NBR O-Ring Head Seals



Kit Includes:
2 FC O-Ring Head Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	ATL-4E00S015S	ATL-4E00S015V
2"	ATL-4E00S020S	ATL-4E00S020V
2-1/2"	ATL-4E00S025S	ATL-4E00S025V
3-1/4"	ATL-4E00S032S	ATL-4E00S032V
4"	ATL-4E00S040S	ATL-4E00S040V
5"	ATL-4E00S050S	ATL-4E00S050V
6"	ATL-4E00S060S	ATL-4E00S060V
7"	ATL-4E00S070S	ATL-4E00S070V
8"	ATL-4E00S080S	ATL-4E00S080V
10"	ATL-4E00S100S	ATL-4E00S100V
12"	ATL-4E00S120S	ATL-4E00S120V
14"	ATL-4E00S140S	ATL-4E00S140V

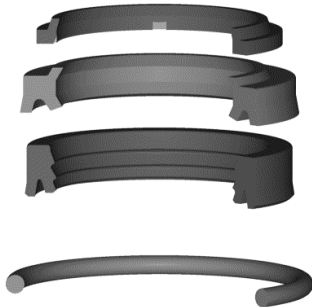
ATLAS



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Series H (For cylinders manufactured before and after April 2005) Rod Seal Kits

Nitrile

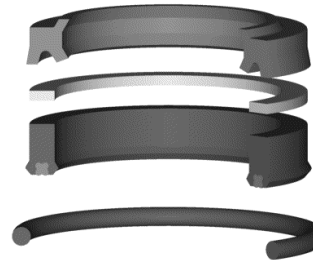


Kit Includes:

- 1 URE Wiper (For cyl. mfg. before April 2005)
- 1 XNBR Wiper (For cyl. mfg. April 2005 and after)
- 1 Multi-lip URE U-Seal
- 1 NBR O-Ring

Series H Rod Seal Kits

Fluorocarbon



Kit Includes:

- 1 FC Wiper (For cyl. mfg. April 2005 and after*)
- 1 PTFE Back-Up Rings
- 1 FC Loaded FC U-Seals
- 1 FC O-Ring

Bore Dia.	(NBR) Kit #	(FC) Kit #
5/8"	ATL-PH06SH000	ATL-VH06SH000
1"	ATL-PH10SH000	ATL-VH10SH000
1-3/8"	ATL-PH13SH000	ATL-VH13SH000
1-3/4"	ATL-PH17SH000	ATL-VH17SH000
2"	ATL-PH20SH000	ATL-VH20SH000
2-1/2"	ATL-PH25SH000	ATL-VH25SH000
3"	ATL-PH30SH000	ATL-VH30SH000
4"	ATL-PH35SH000	ATL-VH35SH000

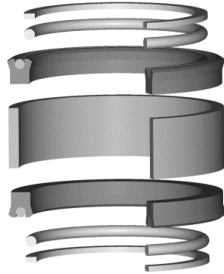
* Fluorocarbon Rod Seal Kits for cylinders manufactured before April 2005 use a bronze AN style wiper ring.

ATLAS

(for cylinders manufactured before April 2005) **Series H
Piston Seal Kits**

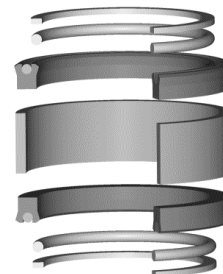
Series H Piston Seal Kits

Nitrile**Fluorocarbon**



Kit Includes:

- * See notes below
- 2 NBR Loaded URE U-Seals
- 1 Nylon Wear Ring
- 2 NBR O-Ring Head Seals
- 2 PTFE Back-up Rings



Kit Includes:

- * See notes below
- 2 FC Loaded FC U-Seals
- 1 Nylon Wear Ring
- 2 FC O-Ring Head Seals
- 2 PTFE Back-Up Rings

Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	ATL-1B00S015S	ATL-1B00S015V
2"	ATL-1B00S020S	ATL-1B00S020V
2-1/2"	ATL-1B00S025S	ATL-1B00S025V
3-1/4"	ATL-1B00S032S	ATL-1B00S032V
4"	ATL-1B00S040S	ATL-1B00S040V
5"	ATL-1B00S050S	ATL-1B00S050V
6"	ATL-1B00S060S	ATL-1B00S060V
7"	ATL-1B00S070S	ATL-1B00S070V
8"	ATL-1B00S080S	ATL-1B00S080V
10"	ATL-1B00S100S	ATL-1B00S100V
12"	ATL-1B00S120S	ATL-1B00S120V

* Kit contents are size dependant:
 1-1/2" thru 4" - U-Seals and O-Rings
 5" - U-Seals, O-Rings and Wear Rings
 6" - Same as 5, also includes 2 PTFE U-Seal Back-Up Rings
 7" thru 12" - contain all parts listed

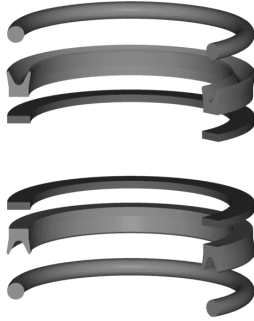
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Series H (for cylinders manufactured April 2005 and after) Piston Seal Kits (1-1/2" to 6" Bores)

Nitrile



Kit Includes:

2 NBR O-Ring Head Seals
2 HP URE Back-up Rings
2 NBR U-Seals

Fluorocarbon



Kit Includes:

2 FC O-Ring Head Seals
2 PTFE Back-Up Rings
2 FC U-Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	ATL-PH00LH015	ATL-VH00LH015
2"	ATL-PH00LH020	ATL-VH00LH020
2-1/2"	ATL-PH00LH025	ATL-VH00LH025
3-1/4"	ATL-PH00LH032	ATL-VH00LH032
4"	ATL-PH00LH040	ATL-VH00LH040
5"	ATL-PH00LH050	ATL-VH00LH050
6"	ATL-PH00LH060	ATL-VH00LH060

HP URE - High Performance Urethane

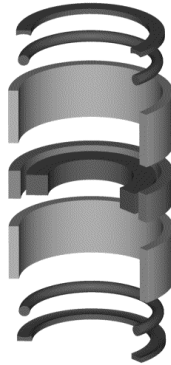
ATLAS

(for cylinders manufactured April 2005 and after) **Series H**
 (7" & 8" Bores) **Piston Seal Kits**

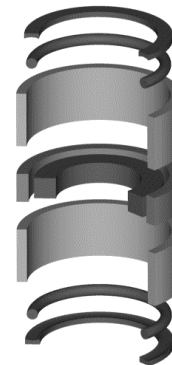
Series H Piston Seal Kits

Nitrile

Fluorocarbon



- Kit Includes:**
 2 NBR Back-Up Rings
 2 NBR O-Ring Head Seals
 2 Nylon Wear Rings
 1 Bronze filled PTFE Piston Ring
 w/ 1 NBR Expander



- Kit Includes:**
 2 PTFE Back-Up Rings
 2 FC O-Ring Head Seals
 2 Nylon Wear Rings
 1 Bronze filled PTFE Piston Ring
 w/1 FC Expander

Bore Dia.	(NBR) Kit #	(FC) Kit #
7"	ATL-PH00KH070	ATL-VH00KH070
8"	ATL-PH00KH080	ATL-VH00KH080

High load Piston Seal Kits are standard for 7" & 8" Bores

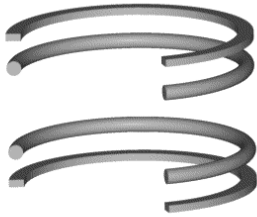
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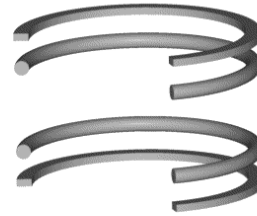
Series H (for cylinders manufactured before April 2005) Head Seal Kits

Nitrile



Kit Includes:
2 NBR O-Ring Head Seals
2 PTFE Back-up Rings*

Fluorocarbon



Kit Includes:
2 FC O-Ring Head Seals
2 PTFE Back-up Rings*

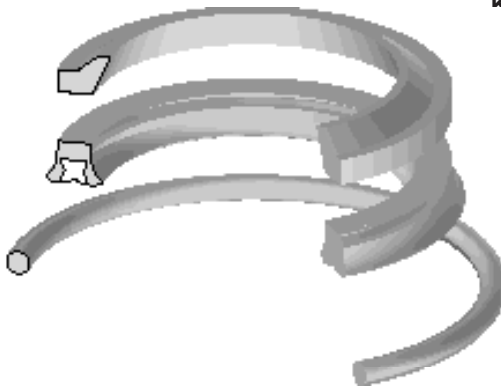
Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	ATL-1E00S015S	ATL-1E00S015V
2"	ATL-1E00S020S	ATL-1E00S020V
2-1/2"	ATL-1E00S025S	ATL-1E00S025V
3-1/4"	ATL-1E00S032S	ATL-1E00S032V
4"	ATL-1E00S040S	ATL-1E00S040V
5"	ATL-1E00S050S	ATL-1E00S050V
6"	ATL-1E00S060S	ATL-1E00S060V
7"	ATL-1E00S070S	ATL-1E00S070V
8"	ATL-1E00S080S	ATL-1E00S080V
10"	ATL-1E00S100S	ATL-1E00S100V
12"	ATL-1E00S120S	ATL-1E00S120V

* Back-up Rings in 7", 8", 10" and 12" kits only

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Rod Kits

Hydraulic Cylinders



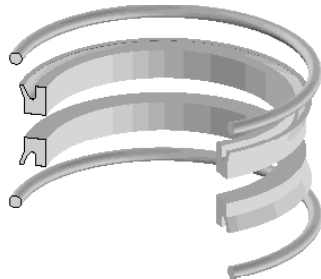
Kit Includes:
 URE Wiper
 URE Loaded U-seal
 NBR O-ring

Rod Dia.	Kit #
5/8"	ATL-HRK62
1"	ATL-HRK100
1-3/8"	ATL-HRK137
1-3/8"	ATL-90030340-79
1-3/8"	ATL-90030370-79
1-3/4"	ATL-HRK175
1-3/4"	ATL-90030340-69
1-3/4"	ATL-90030370-69
2"	ATL-HRK200

ATLAS

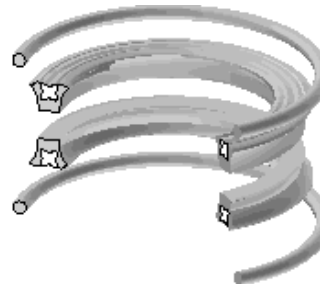
Piston Kits

Pneumatic Cylinders Hydraulic Cylinders



Kit Includes:
 2 URE U-seals
 2 NBR O-rings

Bore Dia.	Kit #
1-1/2"	—
2"	ATL-APK20-000
2-1/2"	ATL-APK25-000
3-1/4"	—
4"	ATL-APK40-000
5"	ATL-APK50-000
6"	ATL-APK60-000
8"	ATL-APK80-000
10"	ATL-APK100-000



Kit Includes:
 2 URE Loaded U-seals
 2 NBR O-rings

Kit #
ATL-HPK15-000
ATL-HPK20-000
ATL-HPK25-000
ATL-HPK35-000
ATL-HPK40-000
ATL-HPK50-000
ATL-HPK60-000
ATL-HPK80-000
—



ATLAS

ATLAS

Kit Number	Code	Rod Size	Bore Size
ATL-1B00S015S	N-N-5		1-1/2
ATL-1B00S015V	N-N-5		1-1/2
ATL-1B00S020S	N-N-5		2
ATL-1B00S020V	N-N-5		2
ATL-1B00S025S	N-N-5		2-1/2
ATL-1B00S025V	N-N-5		2-1/2
ATL-1B00S032S	N-N-5		3-1/4
ATL-1B00S032V	N-N-5		3-1/4
ATL-1B00S040S	N-N-5		4
ATL-1B00S040V	N-N-5		4
ATL-1B00S050S	N-N-5		5
ATL-1B00S050V	N-N-5		5
ATL-1B00S060S	N-N-5		6
ATL-1B00S060V	N-N-5		6
ATL-1B00S070S	N-N-5		7
ATL-1B00S070V	N-N-5		7
ATL-1B00S080S	N-N-5		8
ATL-1B00S080V	N-N-5		8
ATL-1B00S100S	N-N-5		10
ATL-1B00S100V	N-N-5		10
ATL-1B00S120S	N-N-5		12
ATL-1B00S120V	N-N-5		12
ATL-1E00S015S	Head Seal Kit		1-1/2
ATL-1E00S015V	Head Seal Kit		1-1/2
ATL-1E00S020S	Head Seal Kit		2
ATL-1E00S020V	Head Seal Kit		2
ATL-1E00S025S	Head Seal Kit		2-1/2
ATL-1E00S025V	Head Seal Kit		2-1/2
ATL-1E00S032S	Head Seal Kit		3-1/4
ATL-1E00S032V	Head Seal Kit		3-1/4
ATL-1E00S040S	Head Seal Kit		4
ATL-1E00S040V	Head Seal Kit		4
ATL-1E00S050S	Head Seal Kit		5
ATL-1E00S050V	Head Seal Kit		5
ATL-1E00S060S	Head Seal Kit		6
ATL-1E00S060V	Head Seal Kit		6
ATL-1E00S070S	Head Seal Kit		7
ATL-1E00S070V	Head Seal Kit		7
ATL-1E00S080S	Head Seal Kit		8
ATL-1E00S080V	Head Seal Kit		8
ATL-1E00S100S	Head Seal Kit		10
ATL-1E00S100V	Head Seal Kit		10
ATL-1E00S120S	Head Seal Kit		12
ATL-1E00S120V	Head Seal Kit		12
ATL-4A06R000S	I-U-1	5/8	
ATL-4A06R000V	I-U-1	5/8	
ATL-4A06S000S	I-U-1	5/8	
ATL-4A06S000V	I-U-1	5/8	
ATL-4A07S000S	I-U-1	3/4	
ATL-4A07S000V	I-U-1	3/4	

Kit Number	Code	Rod Size	Bore Size
ATL-4A10R000S	I-U-1	1	
ATL-4A10R000V	I-U-1	1	
ATL-4A10S000S	I-U-1	1	
ATL-4A10S000V	I-U-1	1	
ATL-4A13R000S	I-U-1	1-3/8	
ATL-4A13R000V	I-U-1	1-3/8	
ATL-4A13S000S	I-U-1	1-3/8	
ATL-4A13S000V	I-U-1	1-3/8	
ATL-4A17R000S	I-U-1	1-3/4	
ATL-4A17R000V	I-U-1	1-3/4	
ATL-4A17S000S	I-U-1	1-3/4	
ATL-4A17S000V	I-U-1	1-3/4	
ATL-4A20R000S	I-U-1	2	
ATL-4A20R000V	I-U-1	2	
ATL-4A20S000S	I-U-1	2	
ATL-4A20S000V	I-U-1	2	
ATL-4A25R000S	I-U-1	2-1/2	
ATL-4A25R000V	I-U-1	2-1/2	
ATL-4A25S000S	I-U-1	2-1/2	
ATL-4A25S000V	I-U-1	2-1/2	
ATL-4A30R000S	I-U-1	3	
ATL-4A30R000V	I-U-1	3	
ATL-4A30S000S	I-U-1	3	
ATL-4A30S000V	I-U-1	3	
ATL-4A35S000S	I-U-1	3-1/2	
ATL-4A35S000V	I-U-1	3-1/2	
ATL-4A40S000S	I-U-1	4	
ATL-4A40S000V	I-U-1	4	
ATL-4A45S000S	I-U-1	4-1/2	
ATL-4A45S000V	I-U-1	4-1/2	
ATL-4A50S000S	I-U-1	5	
ATL-4A50S000V	I-U-1	5	
ATL-4B00S015S	N-N-5		1-1/2
ATL-4B00S015V	N-N-5		1-1/2
ATL-4B00S020S	N-N-5		2
ATL-4B00S020V	N-N-5		2
ATL-4B00S025S	N-N-5		2-1/2
ATL-4B00S025V	N-N-5		2-1/2
ATL-4B00S032S	N-N-5		3-1/4
ATL-4B00S032V	N-N-5		3-1/4
ATL-4B00S040S	N-N-5		4
ATL-4B00S040V	N-N-5		4
ATL-4B00S050S	N-N-5		5
ATL-4B00S050V	N-N-5		5
ATL-4B00S060S	N-N-5		6
ATL-4B00S060V	N-N-5		6
ATL-4B00S070S	N-N-5		7
ATL-4B00S070V	N-N-5		7
ATL-4B00S080S	N-N-5		8
ATL-4B00S080V	N-N-5		8



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Kit Number	Code	Rod Size	Bore Size
ATL-4B00S100S	N-N-5		10
ATL-4B00S100V	N-N-5		10
ATL-4B00S120S	N-N-5		12
ATL-4B00S120V	N-N-5		12
ATL-4B00S140S	N-N-5		14
ATL-4B00S140V	N-N-5		14
ATL-4E00S015S	Head Seal Kit		1-1/2
ATL-4E00S015V	Head Seal Kit		1-1/2
ATL-4E00S020S	Head Seal Kit		2
ATL-4E00S020V	Head Seal Kit		2
ATL-4E00S025S	Head Seal Kit		2-1/2
ATL-4E00S025V	Head Seal Kit		2-1/2
ATL-4E00S032S	Head Seal Kit		3-1/4
ATL-4E00S032V	Head Seal Kit		3-1/4
ATL-4E00S040S	Head Seal Kit		4
ATL-4E00S040V	Head Seal Kit		4
ATL-4E00S050S	Head Seal Kit		5
ATL-4E00S050V	Head Seal Kit		5
ATL-4E00S060S	Head Seal Kit		6
ATL-4E00S060V	Head Seal Kit		6
ATL-4E00S070S	Head Seal Kit		7
ATL-4E00S070V	Head Seal Kit		7
ATL-4E00S080S	Head Seal Kit		8
ATL-4E00S080V	Head Seal Kit		8
ATL-4E00S100S	Head Seal Kit		10
ATL-4E00S100V	Head Seal Kit		10
ATL-4E00S120S	Head Seal Kit		12
ATL-4E00S120V	Head Seal Kit		12
ATL-4E00S140S	Head Seal Kit		14
ATL-4E00S140V	Head Seal Kit		14
ATL-90030340-69	I-U-1	1-3/4	
ATL-90030340-79	I-U-1	1-3/8	
ATL-90030370-69	I-U-1	1-3/4	
ATL-90030370-79	I-U-1	1-3/8	
ATL-APK100-000	N-N-5		10
ATL-APK20-000	N-N-5		2
ATL-APK25-000	N-N-5		2-1/2
ATL-APK40-000	N-N-5		4
ATL-APK50-000	N-N-5		5
ATL-APK60-000	N-N-5		6
ATL-APK80-000	N-N-5		8
ATL-EA06R000S	I-U-1	5/8	
ATL-EA06S000S	I-U-1	5/8	
ATL-EA10R000S	I-U-1	1	
ATL-EA10S000S	I-U-1	1	
ATL-EA13R000S	I-U-1	1-3/8	
ATL-EA13S000S	I-U-1	1-3/8	
ATL-EA17R000S	I-U-1	1-3/4	
ATL-EA17S000S	I-U-1	1-3/4	
ATL-EA20R000S	I-U-1	2	

Kit Number	Code	Rod Size	Bore Size
ATL-EA20S000S	I-U-1	2	
ATL-EA25R000S	I-U-1	2-1/2	
ATL-EA25S000S	I-U-1	2-1/2	
ATL-EA30R000S	I-U-1	3	
ATL-EA30S000S	I-U-1	3	
ATL-EA35S000S	I-U-1	3-1/2	
ATL-EA40S000S	I-U-1	4	
ATL-EA45S000S	I-U-1	4-1/2	
ATL-EA50S000S	I-U-1	5	
ATL-EB00S015S	N-N-5		1-1/2
ATL-EB00S020S	N-N-5		2
ATL-EB00S025S	N-N-5		2-1/2
ATL-EB00S032S	N-N-5		3-1/4
ATL-EB00S040S	N-N-5		4
ATL-EB00S050S	N-N-5		5
ATL-EB00S060S	N-N-5		6
ATL-EB00S080S	N-N-5		8
ATL-HPK15-000	N-N-5		1-1/2
ATL-HPK20-000	N-N-5		2
ATL-HPK25-000	N-N-5		2-1/2
ATL-HPK35-000	N-N-5		3-1/4
ATL-HPK40-000	N-N-5		4
ATL-HPK50-000	N-N-5		5
ATL-HPK60-000	N-N-5		6
ATL-HPK80-000	N-N-5		8
ATL-HRK100	I-U-1	1	
ATL-HRK137	I-U-1	1-3/8	
ATL-HRK175	I-U-1	1-3/4	
ATL-HRK200	I-U-1	2	
ATL-HRK62	I-U-1	5/8	
ATL-PH00KH070	N-N-1		7
ATL-PH00KH080	N-N-1		8
ATL-PH00LH015	N-N-5		1-1/2
ATL-PH00LH020	N-N-5		2
ATL-PH00LH025	N-N-5		2-1/2
ATL-PH00LH032	N-N-5		3-1/4
ATL-PH00LH040	N-N-5		4
ATL-PH00LH050	N-N-5		5
ATL-PH00LH060	N-N-5		6
ATL-PH06SH000	I-U-1	5/8	
ATL-PH10SH000	I-U-1	1	
ATL-PH13SH000	I-U-1	1-3/8	
ATL-PH17SH000	I-U-1	1-3/4	
ATL-PH20SH000	I-U-1	2	
ATL-PH25SH000	I-U-1	2-1/2	
ATL-PH30SH000	I-U-1	3	
ATL-PH35SH000	I-U-1	3-1/2	
ATL-RGAL-06	Bronze Rod Gland	5/8	
ATL-RGAL-10	Bronze Rod Gland	1	
ATL-RGAL-13	Bronze Rod Gland	1-3/8	



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Kit Number	Code	Rod Size	Bore Size
ATL-RGAL-17	Bronze Rod Gland	1-3/4	
ATL-RGAL-20	Bronze Rod Gland	2	
ATL-RGAL-25	Bronze Rod Gland	2-1/2	
ATL-RGAL-30	Bronze Rod Gland	3	
ATL-VH00KH070	N-N-1		7
ATL-VH00KH080	N-N-1		8
ATL-VH00LH015	N-N-5		1-1/2
ATL-VH00LH020	N-N-5		2
ATL-VH00LH025	N-N-5		2-1/2
ATL-VH00LH032	N-N-5		3-1/4
ATL-VH00LH040	N-N-5		4
ATL-VH00LH050	N-N-5		5
ATL-VH00LH060	N-N-5		6
ATL-VH06SH000	I-U-1	5/8	
ATL-VH10SH000	I-U-1	1	
ATL-VH13SH000	I-U-1	1-3/8	
ATL-VH17SH000	I-U-1	1-3/4	
ATL-VH20SH000	I-U-1	2	
ATL-VH25SH000	I-U-1	2-1/2	
ATL-VH30SH000	I-U-1	3	
ATL-VH35SH000	I-U-1	3-1/2	

ATLAS



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Kit Type		Page
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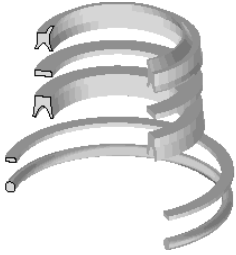
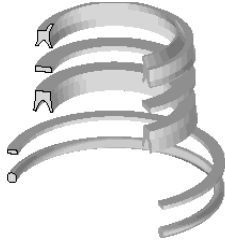
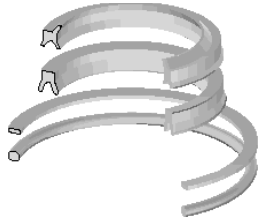
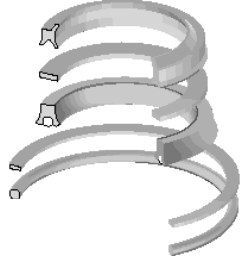
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A5 Series Rod Kits

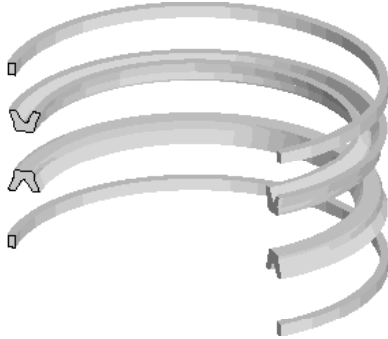
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	A5 Cylinders		HA5 Cylinders	
	Nitrile	Fluorocarbon	Urethane	Fluorocarbon
				
	Kit Includes: 1 XNBR Wiper 1 URE Back-up Ring 1 NBR U-seal 1 PTFE Back-up Ring 1 NBR O-ring	Kit Includes: 1 FC Wiper 1 PTFE Back-up Ring 1 FC U-seal 1 PTFE Back-up Ring 1 FC O-ring	Kit Includes: 1 XNBR Wiper 1 URE U-seal 1 PTFE Back-up Ring 1 NBR O-ring	Kit Includes: 1 FC Wiper 1 PTFE Back-up Ring 1 FC Loaded U-seal 1 PTFE Back-up Ring 1 FC O-ring
Rod Dia.	(NBR) Kit #	(FC) Kit #	(URE) Kit #	(FC) Kit #
5/8"	HSKN5-660-05	HSKN5-660-05V	HSKN5-681-05	HSKN5-660-P-05V
1"	HSKN5-660-08	HSKN5-660-08V	HSKN5-681-08	HSKN5-660-P-08V
1-3/8"	HSKN5-660-11	HSKN5-660-11V	HSKN5-681-11	HSKN5-660-P-11V

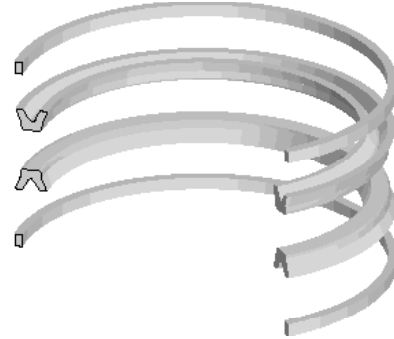
HYDRO-LINE

A5 Series Piston Kits

Nitrile A5 Cylinders Fluorocarbon



Kit Includes:
2 NBR U-seals
2 PTFE Tube End Seals



Kit Includes:
2 FC U-seals
2 PTFE Tube End Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	HSKA5-512-03	HSKA5-512-03V
2"	HSKA5-512-04	HSKA5-512-04V
2-1/2"	HSKA5-512-05	HSKA5-512-05V
3-1/4"	HSKA5-512-065	HSKA5-512-065V
4"	HSKA5-512-08	HSKA5-512-08V
5"	HSKA5-512-10	HSKA5-512-10V
6"	HSKA5-512-12	HSKA5-512-12V

Tube End Seals

A5 Cylinders PTFE

Bore Dia.	Part #
1-1/2"	HS-C221-03
2"	HS-C221-04
2-1/2"	HS-C221-05
3-1/4"	HS-C221-065
4"	HS-C221-08
5"	HS-C221-10
6"	HS-C221-12



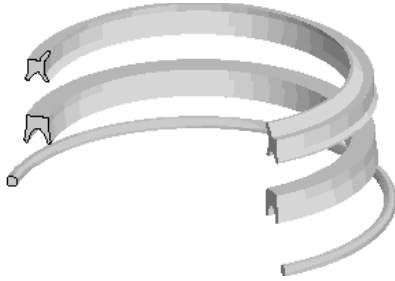
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E2 Series Rod Kits

E2 Cylinders Nitrile



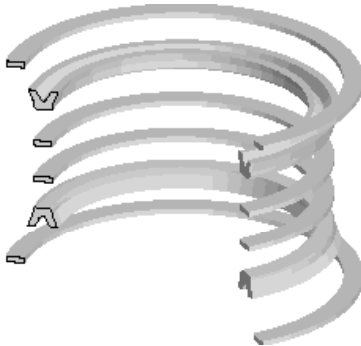
Rod Dia.	(NBR) Kit #
5/8"	HSKE2-660-05
1"	HSKE2-660-08
1-3/8"	HSKE2-660-11

Kit Includes:

- 1 XNBR Wiper
- 1 NBR U-seal
- 1 NBR O-ring

Piston Kits

E2 Cylinders Nitrile



Bore Dia.	(NBR) Kit #
1-1/2"	HSKE2-512-03
2"	HSKE2-512-04
3-1/4"	HSKE2-512-065
4"	HSKE2-512-08

Kit Includes:

- 2 NBR U-seals
- 2 PTFE Back-up Rings (found in 2" & 4" Bore Kits Only)
- 2 Fiber Gaskets

Tube End Seals

E2 Cylinders Fiber



Bore Dia.	Part #
1-1/2"	HS-E304-03
2"	HS-E304-04
3-1/4"	HS-E304-065
4"	HS-E304-08

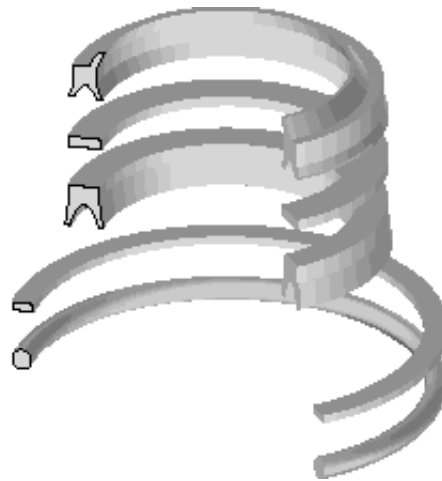
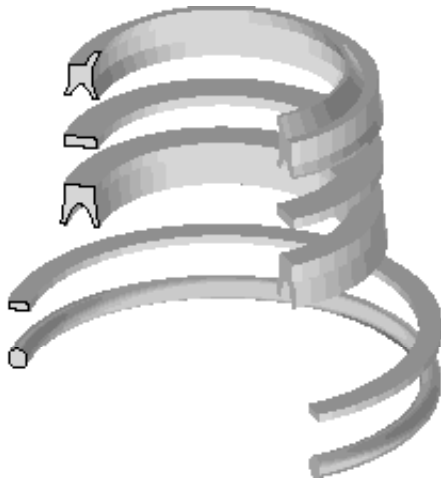
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N2 Series Rod Kits

N2 Cylinders

Nitrile

Fluorocarbon



- Kit Includes:**
 1 XNBR Wiper
 1 URE Back-up Ring
 1 NBR U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring

- Kit Includes:**
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC U-seal
 1 PTFE Back-up Ring
 1 FC O-ring

Rod Dia.	(NBR) Kit #	(FC) Kit #
5/8"	HSKN2-661-05	HSKN2-661-05V
1"	HSKN2-661-08	HSKN2-661-08V
1-3/8"	HSKN2-661-11	HSKN2-661-11V
1-3/4"	HSKN2-661-14	HSKN2-661-14V
2"	HSKN2-661-16	HSKN2-661-16V
2-1/2"	HSKN2-661-20	HSKN2-661-20V
3"	HSKN5-660-24	HSKN5-660-24V
3-1/2"	HSKN5-660-28	HSKN5-660-28V
4"	HSKN5-660-32	HSKN5-660-32V
4-1/2"	HSKN5-660-36	HSKN5-660-36V
5"	HSKN5-660-40	HSKN5-660-40V
5-1/2"	HSKN5-660-44	HSKN5-660-44V

FOR N2 GLAND KITS SEE UNIVERSAL GLAND KITS, SEE PAGE 23

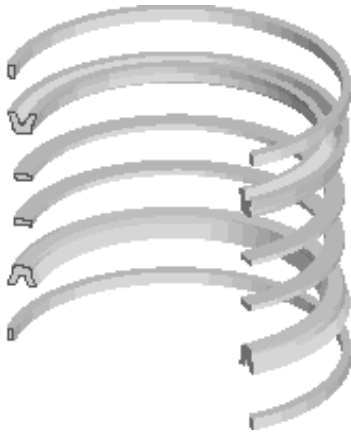


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N2 Series Piston Kits

HYDRO-LINE

Nitrile



Kit Includes:

2 NBR U-seals
2 URE Back-up Rings
2 PTFE Tube End Seals

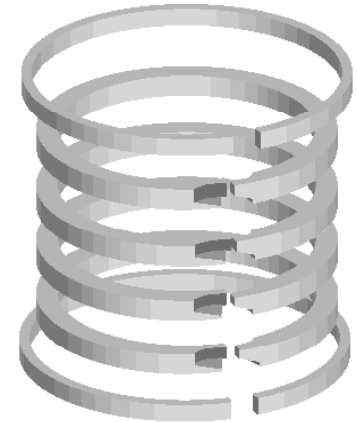
N2 Cylinders Fluorocarbon



Kit Includes:

2 FC U-seals
2 PTFE Back-up Rings
2 PTFE Tube End Seals

Piston Ring



Kit Includes:

4 Cast-Iron Piston Rings
2 PTFE Tube End Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #	(PR) Kit #
1-1/2"	HSKN2-512-03	HSKN2-512-03V	HSKN2-511-03
2"	HSKN2-512-04	HSKN2-512-04V	HSKN2-511-04
2-1/2"	HSKN2-512-05	HSKN2-512-05V	HSKN2-511-05
3-1/4"	HSKN2-512-065	HSKN2-512-065V	HSKN2-511-065
4"	HSKN2-512-08	HSKN2-512-08V	HSKN2-511-08
5"	HSKN2-512-10	HSKN2-512-10V	HSKN2-511-10
6"	HSKN2-512-12	HSKN2-512-12V	HSKN2-511-12
7"	HSKN2-512-14	HSKN2-512-14V	HSKN2-511-14
8"	HSKN2-512-16	HSKN2-512-16V	HSKN2-511-16
10"	HSKN2-512-20	HSKN2-512-20V	HSKN2-511-20
12"	HSKN2-512-24	HSKN2-512-24V	HSKN2-511-24

HYDRO-LINE

N2 Series Tube End Seals

N2 Cylinders PTFE

Bore Dia.	Part #
1-1/2"	HS-C124-03
2"	HS-C124-04
2-1/2"	HS-C124-05
3-1/4"	HS-C124-065
4"	HS-C124-08
5"	HS-C124-10
6"	HS-C124-12
7" & UP	HS-C124-STRIP (sold by the foot)

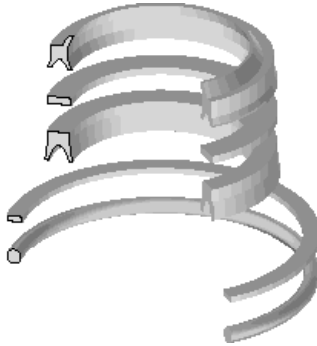




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N5 Series Rod Kits

N5 & AN5 Cylinders Nitrile



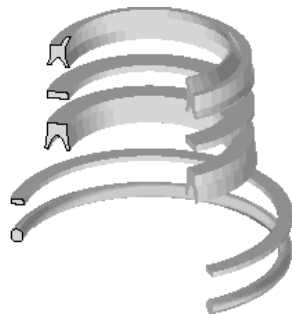
Kit Includes:
 1 XNBR Wiper
 1 URE Back-up Ring
 1 NBR U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring

Rod Dia.	(NBR) Kit #
5/8"	HSKN5-660-05
1"	HSKN5-660-08
1-3/8"	HSKN5-660-11
1-3/4"	HSKN5-660-14
2"	HSKN5-660-16
2-1/2"	HSKN5-660-20
3"	HSKN5-660-24
3-1/2"	HSKN5-660-28
4"	HSKN5-660-32
4-1/2"	HSKN5-660-36
5"	HSKN5-660-40
5-1/2"	HSKN5-660-44

HYDRO-LINE

Rod Kits

N5 Cylinders Fluorocarbon



Kit Includes:
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC U-seal
 1 PTFE Back-up Ring
 1 FC O-ring

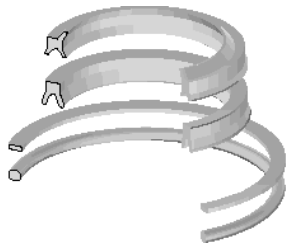
Rod Dia.	(FC) Kit #
5/8"	HSKN5-660-05V
1"	HSKN5-660-08V
1-3/8"	HSKN5-660-11V
1-3/4"	HSKN5-660-14V
2"	HSKN5-660-16V
2-1/2"	HSKN5-660-20V
3"	HSKN5-660-24V
3-1/2"	HSKN5-660-28V
4"	HSKN5-660-32V
4-1/2"	HSKN5-660-36V
5"	HSKN5-660-40V
5-1/2"	HSKN5-660-44V

FOR N5 GLAND KITS SEE UNIVERSAL GLAND KITS, SEE PAGE 33

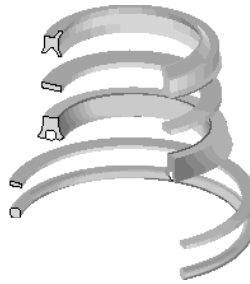
HYDRO-LINE

N5 Series Rod Kits

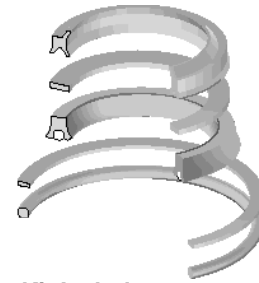
Urethane	N5 Cylinders Urethane	Fluorocarbon
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- Kit Includes:**
 1 XNBR Wiper
 1 URE U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring



- Kit Includes:**
 1 XNBR Wiper
 1 Urethane Back-up Ring
 1 Urethane Loaded U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring



- Kit Includes:**
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC Loaded U-seal
 1 PTFE Back-up Ring
 1 FC O-ring

Rod Dia.	(URE) Kit #	(URE) Kit #	(FC) Kit #
1/2"	—	HSKN5-660-P-04	—
5/8"	HSKN5-681-05	—	HSKN5-660-P-05V
1"	HSKN5-681-08	HSKN5-660-P-08	HSKN5-660-P-08V
1-3/8"	HSKN5-681-11	—	HSKN5-660-P-11V
1-3/4"	HSKN5-681-14	HSKN5-660-P-14	HSKN5-660-P-14V
2"	HSKN5-681-16	—	HSKN5-660-P-16V
2-1/2"	HSKN5-681-20	HSKN5-660-P-20	HSKN5-660-P-20V
3"	HSKN5-681-24	—	HSKN5-660-P-24V
3-1/2"	HSKN5-681-28	HSKN5-660-P-28	HSKN5-660-P-28V
4"	HSKN5-681-32	—	HSKN5-660-P-32V
4-1/2"	HSKN5-681-36	—	HSKN5-660-P-36V
5"	HSKN5-681-40	—	HSKN5-660-P-40V
5-1/2"	HSKN5-681-44	—	HSKN5-660-P-44V

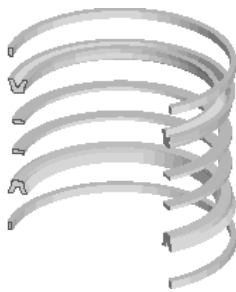

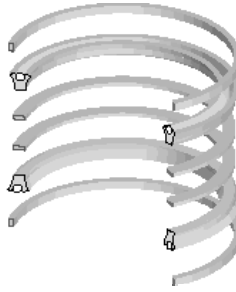
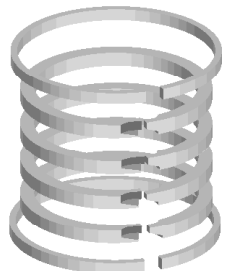
FOR N5 GLAND KITS SEE UNIVERSAL GLAND KITS, SEE PAGE 33



HYDRO-LINE

N5 Series Piston Kits

HYDRO-LINE

N5 Cylinders				
	Nitrile	Fluorocarbon	Urethane	Piston Ring
				
	Kit Includes: 2 NBR U-seals 2 URE Back-up Rings 2 PTFE Tube End Seals	Kit Includes: 2 FC U-seals 2 PTFE Back-up Rings 2 PTFE Tube End Seals	Kit Includes: 2 Urethane U-seals 2 URE Back-up Rings 2 PTFE Tube End Seals	Kit Includes: 4 Cast-Iron Piston Rings 2 PTFE Tube End Seals
Bore Dia.	(NBR) Kit #	(FC) Kit #	(URE) Kit #	(PR) Kit #
1-1/2"	HSKN5-512-03	HSKN5-512-03V		HSKN5-511-03
2"	HSKN5-512-04	HSKN5-512-04V		HSKN5-511-04
2-1/2"	HSKN5-512-05	HSKN5-512-05V	HSKN5-512-P-05	HSKN5-511-05
3-1/4"	HSKN5-512-065	HSKN5-512-065V		HSKN5-511-065
4"	HSKN5-512-08	HSKN5-512-08V		HSKN5-511-08
5"	HSKN5-512-10	HSKN5-512-10V		HSKN5-511-10
6"	HSKN5-512-12	HSKN5-512-12V		HSKN5-511-12
7"	HSKN5-512-14	HSKN5-512-14V		HSKN5-511-14
8"	HSKN5-512-16	HSKN5-512-16V	HSKN5-512-P-16	HSKN5-511-16
10"	HSKN2-512-20	HSKN2-512-20V		HSKN2-511-20
12"	HSKN2-512-24	HSKN2-512-24V		HSKN2-511-24

Tube End Seals



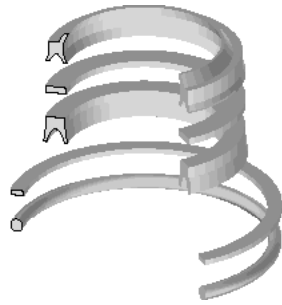
N5 Cylinders PTFE

Bore Dia.	Part #
1-1/2"	HS-C255-03
2"	HS-C255-04
2-1/2"	HS-C255-05
3-1/4"	HS-C255-065
4"	HS-C255-08
5"	HS-C255-10
6"	HS-C255-12
7"	HS-C255-14
8"	HS-C255-16
10" & UP	HS-C124-STRIP (sold by the foot)

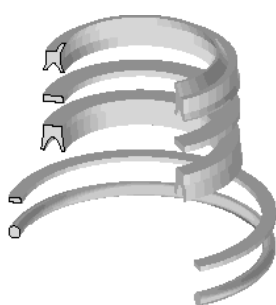
HYDRO-LINE

R2 Series Rod Kits

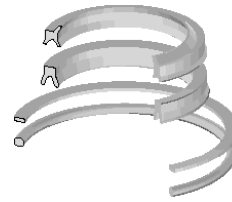
R2 & LR2 Cylinders



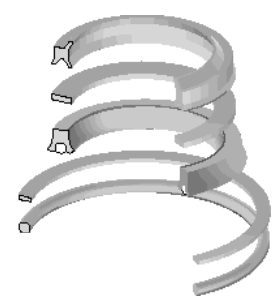
- Kit Includes:**
 1 XNBR Wiper
 1 URE Back-up Ring
 1 NBR U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring



- Kit Includes:**
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC U-seal
 1 PTFE Back-up Ring
 1 FC O-ring



- Kit Includes:**
 1 XNBR Wiper
 1 URE U-seal
 1 PTFE Back-up Ring
 1 NBR O-ring



- Kit Includes:**
 1 FC Wiper
 1 PTFE Back-up Ring
 1 FC Loaded U-seal
 1 PTFE Back-up Ring
 1 FC O-ring

Rod Dia.	Bore Dia.	(NBR) Kit #	(FC) Kit #	(URE) Kit #	(FC) Kit #
5/8"	1"	HSKR2-662-05A	HSKR2-662-05AV	HSKR2-681-05A	HSKR2-662-P-05AV
5/8"	1.5" & UP	HSKN2-661-05	HSKN2-661-05V	—	—
1"	1.5", 2, 2.5"	HSKR2-662-08	HSKR2-662-08V	HSKR2-681-08	HSKR2-662-P-08V
1"	3.25" & UP	HSKN2-661-08	HSKN2-661-08V	—	—
1-3/8"	2", 2.5"	HSKR2-662-11	HSKR2-662-11V	HSKR2-681-11	HSKR2-662-P-11V
1-3/8"	3.25" & UP	HSKN2-661-11	HSKN2-661-11V	—	—
1-3/4"	2.5"	HSKR2-662-14	HSKR2-662-14V	HSKR2-681-14	HSKR2-662-P-14V
1-3/4"	3.25" & UP	HSKN2-661-14	HSKN2-661-14V	—	—
2"	ALL	HSKN2-661-16	HSKN2-661-16V	—	—
2-1/2"	ALL	HSKN2-661-20	HSKN2-661-20V	—	—
3"	ALL	HSKN5-660-24	HSKN5-660-24V	—	—
3-1/2"	ALL	HSKN5-660-28	HSKN5-660-28V	—	—
4"	ALL	HSKN5-660-32	HSKN5-660-32V	—	—
4-1/2"	ALL	HSKN5-660-36	HSKN5-660-36V	—	—
5"	ALL	HSKN5-660-40	HSKN5-660-40V	—	—
5-1/2"	ALL	HSKN5-660-44	HSKN5-660-44V	—	—

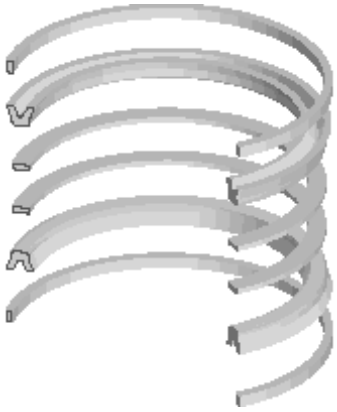
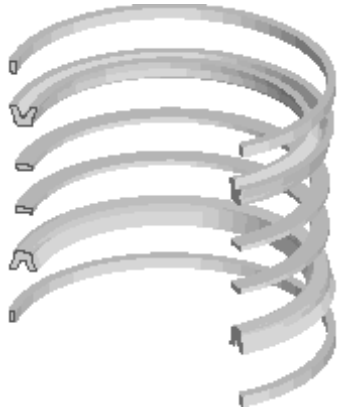
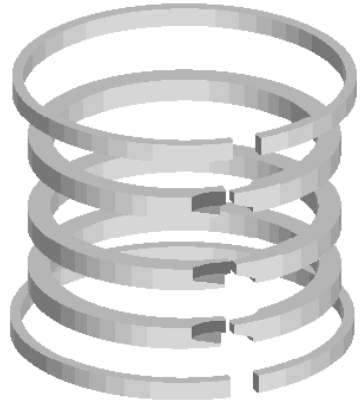
FOR R2 GLAND KITS SEE UNIVERSAL GLAND KITS, SEE PAGE 33



HYDRO-LINE

R2 Series Piston Kits

HYDRO-LINE

	Nitrile	R2 & LR2 Cylinders Fluorocarbon	Piston Ring
	 <p>Kit Includes: 2 NBR U-seals 2 URE Back-up Rings 2 PTFE Tube End Seals</p>	 <p>Kit Includes: 2 FC U-seals 2 PTFE Back-up Rings 2 PTFE Tube End Seals</p>	 <p>Kit Includes: 3 Cast-Iron Piston Rings 2 PTFE Tube End Seals</p>
Bore Dia.	(NBR) Kit #	(FC) Kit #	(PR) Kit #
1"	HSKR5-512-02	HSKR5-512-02V	HSKR5-511-02
1-1/2"	HSKR5-512-03	HSKR5-512-03V	HSKR5-511-03
2"	HSKR5-512-04	HSKR5-512-04V	HSKR5-511-04
2-1/2"	HSKR5-512-05	HSKR5-512-05V	HSKR5-511-05
3-1/4"	HSKR5-512-065	HSKR5-512-065V	HSKR5-511-065
4"	HSKR5-512-08	HSKR5-512-08V	HSKR5-511-08
5"	HSKR5-512-10	HSKR5-512-10V	HSKR5-511-10
6"	HSKR5-512-12	HSKR5-512-12V	HSKR5-511-12
8"	HSKR5-512-16	HSKR5-512-16V	HSKR5-511-16
10"	HSKR5-512-20	HSKR5-512-20V	HSKR5-511-20
12"	HSKR5-512-24	HSKR5-512-24V	HSKR5-511-24
14"	HSKR5-512-28	HSKR5-512-28V	—

HYDRO-LINE

R2 Series Tube End Seals

R2 & LR2 Cylinders PTFE

Bore Dia.	Part #
1"	HS-C221-02
1-1/2"	HS-C221-03
2"	HS-C221-04
2-1/2"	HS-C221-05
3-1/4"	HS-C221-065
4"	HS-C221-08
5"	HS-C221-10
6"	HS-C221-12
8" & UP	HS-C221-STRIP (sold by the foot)



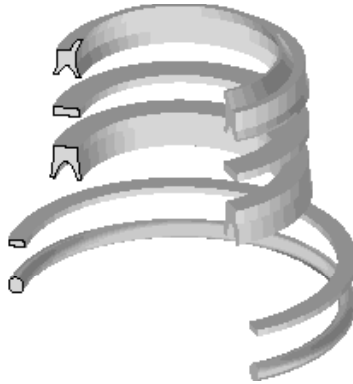
HYDRO-LINE



HYDRO-LINE

R5 Series Rod Kits

R5 & HR5 Cylinders Nitrile



Kit Includes:

- 1 XNBR Wiper
- 1 URE Back-up Ring
- 1 NBR U-seal
- 1 PTFE Back-up Ring
- 1 NBR O-ring

Rod Dia.	Bore Dia.	(NBR) Kit #
1/2"	1"	HSKN5-660-04
5/8"	1"	HSKR2-662-05A
5/8"	1.5" & UP	HSKN5-660-05
1"	2" & UP	HSKN5-660-08
1-3/8"	2.5" & UP	HSKN5-660-11
1-3/4"	ALL	HSKN5-660-14
2"	ALL	HSKN5-660-16
2-1/2"	ALL	HSKN5-660-20
3"	ALL	HSKN5-660-24
3-1/2"	ALL	HSKN5-660-28
4"	ALL	HSKN5-660-32
4-1/2"	ALL	HSKN5-660-36
5"	ALL	HSKN5-660-40
5-1/2"	ALL	HSKN5-660-44

FOR R5 GLAND KITS SEE UNIVERSAL GLAND KITS, SEE PAGE 33

HYDRO-LINE

R5 Series Rod Kits

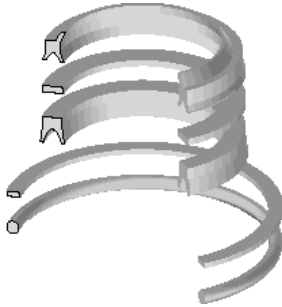
HR5 Cylinders

Fluorocarbon

Urethane

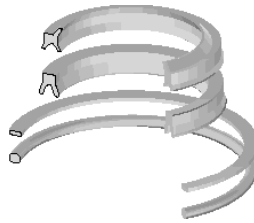
Urethane

Fluorocarbon



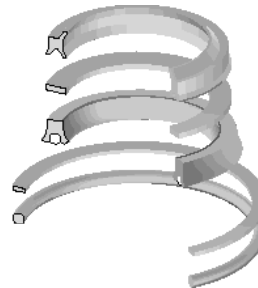
Kit Includes:

- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC U-seal
- 1 PTFE Back-up Ring
- 1 FC O-ring



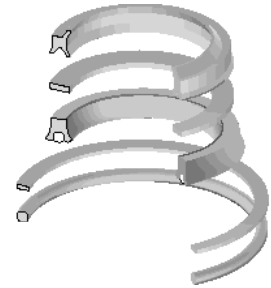
Kit Includes:

- 1 XNBR Wiper
- 1 URE U-seal
- 1 PTFE Back-up Ring
- 1 NBR O-ring



Kit Includes:

- 1 XNBR Wiper
- 1 Urethane Back-up Ring
- 1 Urethane Loaded U-seal
- 1 PTFE Back-up Ring
- 1 NBR O-ring



Kit Includes:

- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC Loaded U-seal
- 1 PTFE Back-up Ring
- 1 FC O-ring

Rod Dia.	Bore Dia.	(FC) Kit #	(URE) Kit #	(URE) Kit #	(FC) Kit #
1/2"	1"	HSKN5-660-04V	—	HSKN5-660-P-04	HSKN5-660-P-04V
5/8"	1"	HSKR2-662-05AV	HSKN5-681-05A	—	HSKN5-660-P-05AV
5/8"	1.5" & UP	HSKN5-660-05V	HSKN5-681-05	—	HSKN5-660-P-05V
1"	2" & UP	HSKN5-660-08V	HSKN5-681-08	HSKN5-660-P-08	HSKN5-660-P-08V
1-3/8"	2.5" & UP	HSKN5-660-11V	HSKN5-681-11	—	HSKN5-660-P-11V
1-3/4"	ALL	HSKN5-660-14V	HSKN5-681-14	HSKN5-660-P-14	HSKN5-660-P-14V
2"	ALL	HSKN5-660-16V	HSKN5-681-16	—	HSKN5-660-P-16V
2-1/2"	ALL	HSKN5-660-20V	HSKN5-681-20	—	HSKN5-660-P-20V
3"	ALL	HSKN5-660-24V	HSKN5-681-24	—	HSKN5-660-P-24V
3-1/2"	ALL	HSKN5-660-28V	HSKN5-681-28	HSKN5-660-P-28	HSKN5-660-P-28V
4"	ALL	HSKN5-660-32V	HSKN5-681-32	—	HSKN5-660-P-32V
4-1/2"	ALL	HSKN5-660-36V	HSKN5-681-36	—	HSKN5-660-P-36V
5"	ALL	HSKN5-660-40V	HSKN5-681-40	—	HSKN5-660-P-40V
5-1/2"	ALL	HSKN5-660-44V	HSKN5-681-44	—	HSKN5-660-P-44V

HYDRO-LINE

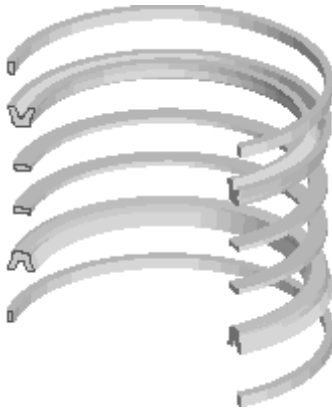
FOR R5 GLAND KITS SEE UNIVERSAL GLAND KITS, PAGE 33



HYDRO-LINE

R5 Series Piston Kits

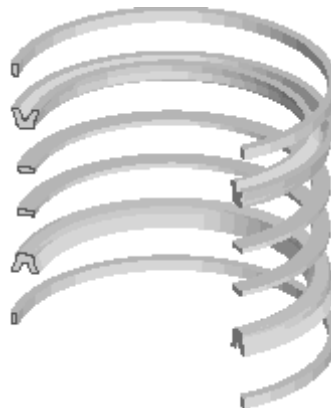
Nitrile



Kit Includes:

- 2 NBR U-seals
- 2 URE Back-up Rings
- 2 PTFE Tube End Seals

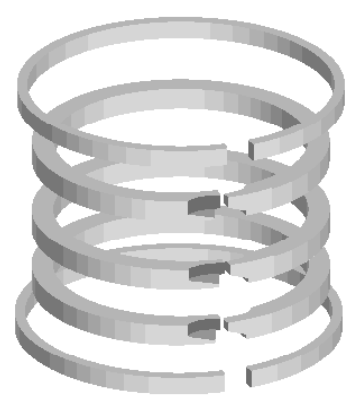
R5 Cylinders Fluorocarbon



Kit Includes:

- 2 FC U-seals
- 2 PTFE Back-up Rings
- 2 PTFE Tube End Seals

Piston Ring



Kit Includes:

- 3 Cast-Iron Piston Rings
- 2 PTFE Tube End Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #	(PR) Kit #
1"	HSKR5-512-02	HSKR5-512-02V	HSKR5-511-02
1-1/2"	HSKR5-512-03	HSKR5-512-03V	HSKR5-511-03
2"	HSKR5-512-04	HSKR5-512-04V	HSKR5-511-04
2-1/2"	HSKR5-512-05	HSKR5-512-05V	HSKR5-511-05
3-1/4"	HSKR5-512-065	HSKR5-512-065V	HSKR5-511-065
4"	HSKR5-512-08	HSKR5-512-08V	HSKR5-511-08
5"	HSKR5-512-10	HSKR5-512-10V	HSKR5-511-10
6"	HSKR5-512-12	HSKR5-512-12V	HSKR5-511-12
8"	HSKR5-512-16	HSKR5-512-16V	HSKR5-511-16
10"	HSKR5-512-20	HSKR5-512-20V	HSKR5-511-20
12"	HSKR5-512-24	HSKR5-512-24V	HSKR5-511-24
14"	HSKR5-512-28	HSKR5-512-28V	—

HYDRO-LINE

R5 Series Tube End Seals

R5 Cylinders PTFE

Bore Dia.	Part #
1"	HS-C221-02
1-1/2"	HS-C221-03
2"	HS-C221-04
2-1/2"	HS-C221-05
3-1/4"	HS-C221-065
4"	HS-C221-08
5"	HS-C221-10
6"	HS-C221-12
8" & UP	HS-C221-STRIP (sold by the foot)



HYDRO-LINE



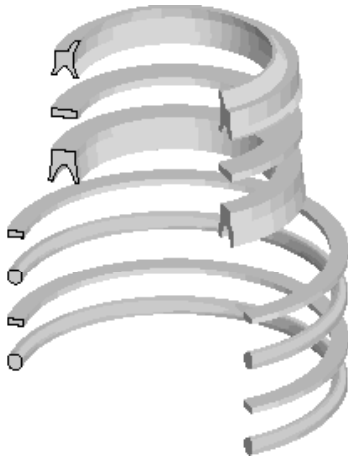
HYDRO-LINE

UNIVERSAL Rod Kits

A5, N2, N5, R2, & R5 Cylinders (see note)

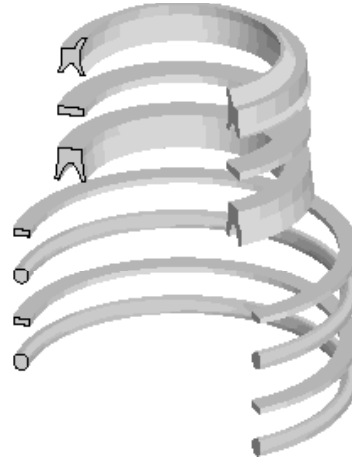
Nitrile

Fluorocarbon



Kit Includes:

- 1 XNBR Wiper
- 1 URE Back-up Ring
- 1 NBR U-seal
- 2 NBR O-rings
- 2 PTFE BU Rings



Kit Includes:

- 1 FC Wiper
- 1 PTFE BU Ring
- 1 FC U-seal
- 2 FC O-rings
- 2 PTFE BU Rings

Rod Dia.	(NBR) Kit #	(FC) Kit #
5/8"	HSKN25-665-05	HSKN25-665-05V
1"	HSKN25-665-08	HSKN25-665-08V
1-3/8"	HSKN25-665-11	HSKN25-665-11V
1-3/4"	HSKN25-665-14	HSKN25-665-14V
2"	HSKN25-665-16	HSKN25-665-16V
2-1/2"	HSKN25-665-20	HSKN25-665-20V

Note: Rod Seal Kits are good for all cylinders except R2/R5 1" Bore X All Rods, 1-1/2" Bore X 1" Rod, and 2" Bore X 1-3/8" Rod.

HYDRO-LINE

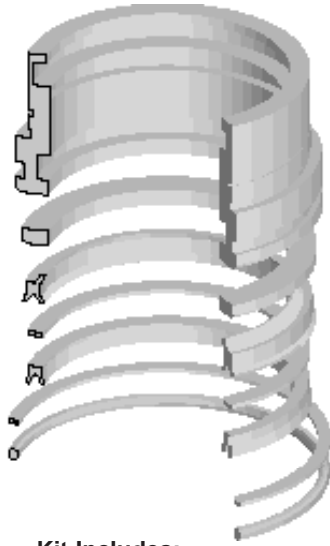
UNIVERSAL Gland Kits

A5, N2, N5, R2, & R5 Cylinders (see note)

Nitrile

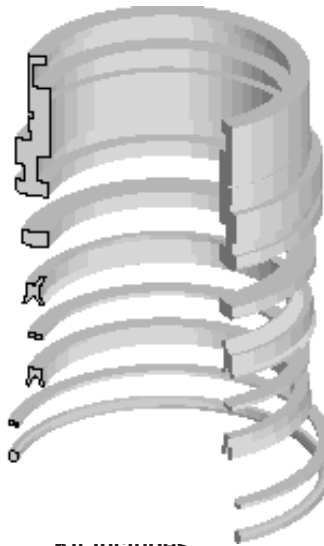
Fluorocarbon

Bushing



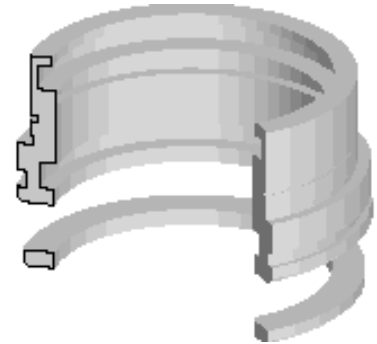
Kit Includes:

- 1 Iron Bushing
- 1 Spacer
- 1 XNBR Wiper
- 1 URE Back-up Ring
- 1 NBR U-seal
- 1 PTFE Back-up ring
- 1 NBR O-ring



Kit Includes:

- 1 Iron Bushing
- 1 Spacer
- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC U-seal
- 1 PTFE Back-up ring
- 1 FC O-ring



Kit Includes:

- 1 Iron Bushing
- 1 Spacer

HYDRO-LINE

Rod Dia.	(NBR) Kit #	(FC) Kit #	Part #
5/8"	HN5-665-05	HN5-665-05V	HN5-655-05
1"	HN5-665-08	HN5-665-08V	HN5-655-08
1-3/8"	HN5-665-11	HN5-665-11V	HN5-655-11
1-3/4"	HN5-665-14	HN5-665-14V	HN5-655-14
2"	HN5-665-16	HN5-665-16V	HN5-655-16
2-1/2"	HN5-665-20	HN5-665-20V	HN5-655-20
3"	HN5-665-24	HN5-665-24V	HN5-655-24
3-1/2"	HN5-665-28	HN5-665-28V	HN5-655-28
4"	HN5-665-32	HN5-665-32V	HN5-655-32
4-1/2"	HN5-665-36 (2.57" HGT)	HN5-665-36V (2.57" HGT)	HN5-655-36 (2.57" HGT)
4-1/2"	HN5-665-36A (1.88" HGT)	HN5-665-36AV (1.88" HGT)	HN5-655-36A (1.88" HGT)
5"	HN5-665-40	HN5-665-40V	HN5-655-40
5-1/2"	HN5-665-44	HN5-665-44V	HN5-655-44

Note: Gland Seal Kits are good for all cylinders with some exceptions. Call with series, rod & bore size for more information.



HYDRO-LINE

UNIVERSAL Captive Cushion Adjustment Seal

A, N & R Cylinders



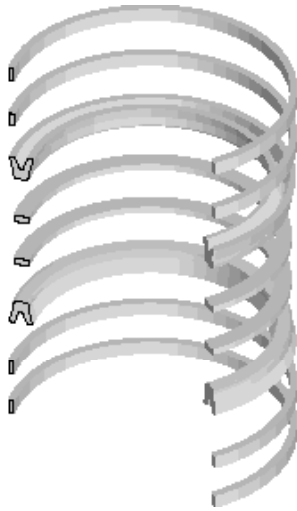
Part #	I.D. X C.S.
HS-C408-1	.204 X .072
HS-C408-1V	.204 X .072
HS-C408-2	.298 X .072
HS-C408-2V	.298 X .072
HS-C408-3	.420 X .072
HS-C408-3V	.420 X .072
HS-C408-4	.542 X .072
HS-C408-4V	.542 X .072

Used on Captive Cushion Adjustment Valves for precise adjustment under pressure over a broad range of operating conditions. Available in both 90A material - Nitrile and Fluorocarbon.

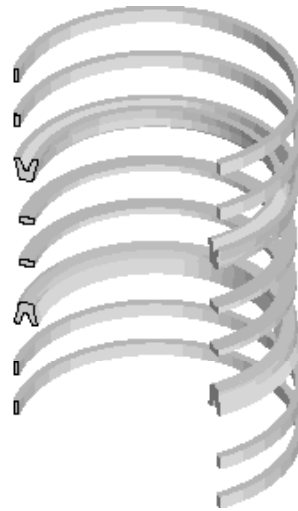
HYDRO-LINE

UNIVERSAL Piston Kits

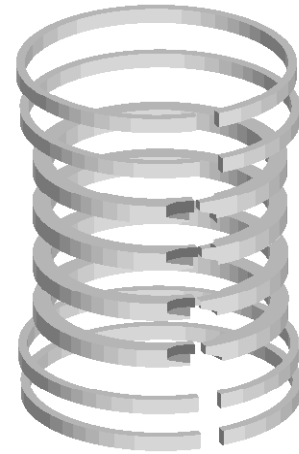
Nitrile	N2 & N5 Cylinders Fluorocarbon	Piston Ring
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Kit Includes:
 2 NBR U-seals
 2 URE Back-up Rings
 4 PTFE Tube End Seals



Kit Includes:
 2 FC U-seals
 2 PTFE Back-up Rings
 4 PTFE Tube End Seals



Kit Includes:
 4 Cast Iron Piston Rings
 4 PTFE Tube End Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #	(PR) Kit #
1-1/2"	HSKN25-512-03	HSKN25-512-03V	HSKN25-511-03
2"	HSKN25-512-04	HSKN25-512-04V	HSKN25-511-04
2-1/2"	HSKN25-512-05	HSKN25-512-05V	HSKN25-511-05
3-1/4"	HSKN25-512-065	HSKN25-512-065V	HSKN25-511-065
4"	HSKN25-512-08	HSKN25-512-08V	HSKN25-511-08
5"	HSKN25-512-10	HSKN25-512-10V	HSKN25-511-10
6"	HSKN25-512-12	HSKN25-512-12V	HSKN25-511-12
7"	HSKN25-512-14	HSKN25-512-14V	HSKN25-511-14
8"	HSKN25-512-16	HSKN25-512-16V	HSKN25-511-16

HYDRO-LINE



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HN5-655-05	Bushing w/ spacer	5/8	
HN5-655-08	Bushing w/ spacer	1	
HN5-655-11	Bushing w/ spacer	1-3/8	
HN5-655-14	Bushing w/ spacer	1-3/4	
HN5-655-16	Bushing w/ spacer	2	
HN5-655-20	Bushing w/ spacer	2-1/2	
HN5-655-24	Bushing w/ spacer	3	
HN5-655-28	Bushing w/ spacer	3-1/2	
HN5-655-32	Bushing w/ spacer	4	
HN5-655-36	Bushing w/ spacer	4-1/2 x 2.57ht	
HN5-655-36A	Bushing w/ spacer	4-1/2 x 1.88ht	
HN5-655-40	Bushing w/ spacer	5	
HN5-655-44	Bushing w/ spacer	5-1/2	
HN5-665-05	Rod Gland Kit	5/8	
HN5-665-05V	Rod Gland Kit	5/8	
HN5-665-08	Rod Gland Kit	1	
HN5-665-08V	Rod Gland Kit	1	
HN5-665-11	Rod Gland Kit	1-3/8	
HN5-665-11V	Rod Gland Kit	1-3/8	
HN5-665-14	Rod Gland Kit	1-3/4	
HN5-665-14V	Rod Gland Kit	1-3/4	
HN5-665-16	Rod Gland Kit	2	
HN5-665-16V	Rod Gland Kit	2	
HN5-665-20	Rod Gland Kit	2-1/2	
HN5-665-20V	Rod Gland Kit	2-1/2	
HN5-665-24	Rod Gland Kit	3	
HN5-665-24V	Rod Gland Kit	3	
HN5-665-28	Rod Gland Kit	3-1/2	
HN5-665-28V	Rod Gland Kit	3-1/2	
HN5-665-32	Rod Gland Kit	4	
HN5-665-32V	Rod Gland Kit	4	
HN5-665-36	Rod Gland Kit	4-1/2	
HN5-665-36A	Rod Gland Kit	4-1/2	
HN5-665-36AV	Rod Gland Kit	4-1/2	
HN5-665-36V	Rod Gland Kit	4-1/2	
HN5-665-40	Rod Gland Kit	5	
HN5-665-40V	Rod Gland Kit	5	
HN5-665-44	Rod Gland Kit	5-1/2	
HN5-665-44V	Rod Gland Kit	5-1/2	
HS-C124-03	Tube End Seals	1-1/2	
HS-C124-04	Tube End Seals	2	
HS-C124-05	Tube End Seals	2-1/2	
HS-C124-065	Tube End Seals	3-1/4	
HS-C124-08	Tube End Seals	4	
HS-C124-10	Tube End Seals	5	
HS-C124-12	Tube End Seals	6	
HS-C124-STRIP	Tube End Seals	0.068cs x 0.140w PTFE strip (sold by the foot)	
HS-C221-02	Tube End Seals	1	
HS-C221-03	Tube End Seals	1-1/2	
HS-C221-04	Tube End Seals	2	



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HS-C221-05	Tube End Seals	2-1/2	
HS-C221-065	Tube End Seals	3-1/4	
HS-C221-08	Tube End Seals	4	
HS-C221-10	Tube End Seals	5	
HS-C221-12	Tube End Seals	6	
HS-C221-STRIP	Tube End Seals	0.063cs x 0.093w PTFE strip (sold by the foot)	
HS-C255-03	Tube End Seals	1-1/2	
HS-C255-04	Tube End Seals	2	
HS-C255-05	Tube End Seals	2-1/2	
HS-C255-065	Tube End Seals	3-1/4	
HS-C255-08	Tube End Seals	4	
HS-C255-10	Tube End Seals	5	
HS-C255-12	Tube End Seals	6	
HS-C255-14	Tube End Seals	7	
HS-C255-16	Tube End Seals	8	
HS-C408-1	Captive Cushion Adjustment Seal	0.204x0.072	
HS-C408-1V	Captive Cushion Adjustment Seal	0.204x0.072	
HS-C408-2	Captive Cushion Adjustment Seal	0.298x0.072	
HS-C408-2V	Captive Cushion Adjustment Seal	0.298x0.072	
HS-C408-3	Captive Cushion Adjustment Seal	0.420x0.072	
HS-C408-3V	Captive Cushion Adjustment Seal	0.420x0.072	
HS-C408-4	Captive Cushion Adjustment Seal	0.542x0.072	
HS-C408-4V	Captive Cushion Adjustment Seal	0.542x0.072	
HS-E304-03	Tube End Seals	1-1/2	
HS-E304-04	Tube End Seals	2	
HS-E304-065	Tube End Seals	3-1/4	
HS-E304-08	Tube End Seals	4	
HSKA5-512-03	Piston Kit		1-1/2
HSKA5-512-03V	Piston Kit		1-1/2
HSKA5-512-04	Piston Kit		2
HSKA5-512-04V	Piston Kit		2
HSKA5-512-05	Piston Kit		2-1/2
HSKA5-512-05V	Piston Kit		2-1/2
HSKA5-512-065	Piston Kit		3-1/4
HSKA5-512-065V	Piston Kit		3-1/4
HSKA5-512-08	Piston Kit		4
HSKA5-512-08V	Piston Kit		4
HSKA5-512-10	Piston Kit		5
HSKA5-512-10V	Piston Kit		5
HSKA5-512-12	Piston Kit		6
HSKA5-512-12V	Piston Kit		6
HSKE2-512-03	Piston Kit		1-1/2
HSKE2-512-04	Piston Kit		2
HSKE2-512-065	Piston Kit		3-1/4
HSKE2-512-08	Piston Kit		4
HSKE2-660-05	Rod Kit	5/8	
HSKE2-660-08	Rod Kit	1	
HSKE2-660-11	Rod Kit	1-3/8	
HSKN2-511-03	Piston Ring Kit		1-1/2
HSKN2-511-04	Piston Ring Kit		2



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HSKN2-511-05	Piston Ring Kit		2-1/2
HSKN2-511-065	Piston Ring Kit		3-1/4
HSKN2-511-08	Piston Ring Kit		4
HSKN2-511-10	Piston Ring Kit		5
HSKN2-511-12	Piston Ring Kit		6
HSKN2-511-14	Piston Ring Kit		7
HSKN2-511-16	Piston Ring Kit		8
HSKN2-511-20	Piston Ring Kit		10
HSKN2-511-24	Piston Ring Kit		12
HSKN2-512-03	Piston Kit		1-1/2
HSKN2-512-03V	Piston Kit		1-1/2
HSKN2-512-04	Piston Kit		2
HSKN2-512-04V	Piston Kit		2
HSKN2-512-05	Piston Kit		2-1/2
HSKN2-512-05V	Piston Kit		2-1/2
HSKN2-512-065	Piston Kit		3-1/4
HSKN2-512-065V	Piston Kit		3-1/4
HSKN2-512-08	Piston Kit		4
HSKN2-512-08V	Piston Kit		4
HSKN2-512-10	Piston Kit		5
HSKN2-512-10V	Piston Kit		5
HSKN2-512-12	Piston Kit		6
HSKN2-512-12V	Piston Kit		6
HSKN2-512-14	Piston Kit		7
HSKN2-512-14V	Piston Kit		7
HSKN2-512-16	Piston Kit		8
HSKN2-512-16V	Piston Kit		8
HSKN2-512-20	Piston Kit		10
HSKN2-512-20V	Piston Kit		10
HSKN2-512-24	Piston Kit		12
HSKN2-512-24V	Piston Kit		12
HSKN25-511-03	Piston Kit		1-1/2
HSKN25-511-04	Piston Kit		2
HSKN25-511-05	Piston Kit		2-1/2
HSKN25-511-065	Piston Kit		3-1/4
HSKN25-511-08	Piston Kit		4
HSKN25-511-10	Piston Kit		5
HSKN25-511-12	Piston Kit		6
HSKN25-511-14	Piston Kit		7
HSKN25-511-16	Piston Kit		8
HSKN25-512-03	Piston Kit		1-1/2
HSKN25-512-03V	Piston Kit		1-1/2
HSKN25-512-04	Piston Kit		2
HSKN25-512-04V	Piston Kit		2
HSKN25-512-05	Piston Kit		2-1/2
HSKN25-512-05V	Piston Kit		2-1/2
HSKN25-512-065	Piston Kit		3-1/4
HSKN25-512-065V	Piston Kit		3-1/4
HSKN25-512-08	Piston Kit		4
HSKN25-512-08V	Piston Kit		4



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HSKN25-512-10	Piston Kit		5
HSKN25-512-10V	Piston Kit		5
HSKN25-512-12	Piston Kit		6
HSKN25-512-12V	Piston Kit		6
HSKN25-512-14	Piston Kit		7
HSKN25-512-14V	Piston Kit		7
HSKN25-512-16	Piston Kit		8
HSKN25-512-16V	Piston Kit		8
HSKN25-665-05	Rod Kit	5/8	
HSKN25-665-05V	Rod Kit	5/8	
HSKN25-665-08	Rod Kit	1	
HSKN25-665-08V	Rod Kit	1	
HSKN25-665-11	Rod Kit	1-3/8	
HSKN25-665-11V	Rod Kit	1-3/8	
HSKN25-665-14	Rod Kit	1-3/4	
HSKN25-665-14V	Rod Kit	1-3/4	
HSKN25-665-16	Rod Kit	2	
HSKN25-665-16V	Rod Kit	2	
HSKN25-665-20	Rod Kit	2-1/2	
HSKN25-665-20V	Rod Kit	2-1/2	
HSKN2-661-05	Rod Kit	5/8	
HSKN2-661-05V	Rod Kit	5/8	
HSKN2-661-08	Rod Kit	1	
HSKN2-661-08V	Rod Kit	1	
HSKN2-661-11	Rod Kit	1-3/8	
HSKN2-661-11V	Rod Kit	1-3/8	
HSKN2-661-14	Rod Kit	1-3/4	
HSKN2-661-14V	Rod Kit	1-3/4	
HSKN2-661-16	Rod Kit	2	
HSKN2-661-16V	Rod Kit	2	
HSKN2-661-20	Rod Kit	2-1/2	
HSKN2-661-20V	Rod Kit	2-1/2	
HSKN5-511-03	Piston Ring Kit		1-1/2
HSKN5-511-04	Piston Ring Kit		2
HSKN5-511-05	Piston Ring Kit		2-1/2
HSKN5-511-065	Piston Ring Kit		3-1/4
HSKN5-511-08	Piston Ring Kit		4
HSKN5-511-10	Piston Ring Kit		5
HSKN5-511-12	Piston Ring Kit		6
HSKN5-511-14	Piston Ring Kit		7
HSKN5-511-16	Piston Ring Kit		8
HSKN5-512-03	Piston Kit		1-1/2
HSKN5-512-03V	Piston Kit		1-1/2
HSKN5-512-04	Piston Kit		2
HSKN5-512-04V	Piston Kit		2
HSKN5-512-05	Piston Kit		2-1/2
HSKN5-512-05V	Piston Kit		2-1/2
HSKN5-512-065	Piston Kit		3-1/4
HSKN5-512-065V	Piston Kit		3-1/4
HSKN5-512-08	Piston Kit		4



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HSKN5-512-08V	Piston Kit		4
HSKN5-512-10	Piston Kit		5
HSKN5-512-10V	Piston Kit		5
HSKN5-512-12	Piston Kit		6
HSKN5-512-12V	Piston Kit		6
HSKN5-512-14	Piston Kit		7
HSKN5-512-14V	Piston Kit		7
HSKN5-512-16	Piston Kit		8
HSKN5-512-16V	Piston Kit		8
HSKN5-512-P-05	Piston Kit		2-1/2
HSKN5-512-P-16	Piston Kit		8
HSKN5-660-04	Rod Kit	1/2	
HSKN5-660-04V	Rod Kit	1/2	
HSKN5-660-05	Rod Kit	5/8	
HSKN5-660-05V	Rod Kit	5/8	
HSKN5-660-08	Rod Kit	1	
HSKN5-660-08V	Rod Kit	1	
HSKN5-660-11	Rod Kit	1-3/8	
HSKN5-660-11V	Rod Kit	1-3/8	
HSKN5-660-14	Rod Kit	1-3/4	
HSKN5-660-14V	Rod Kit	1-3/4	
HSKN5-660-16	Rod Kit	2	
HSKN5-660-16V	Rod Kit	2	
HSKN5-660-20	Rod Kit	2-1/2	
HSKN5-660-20V	Rod Kit	2-1/2	
HSKN5-660-24	Rod Kit	3	
HSKN5-660-24V	Rod Kit	3	
HSKN5-660-28	Rod Kit	3-1/2	
HSKN5-660-28V	Rod Kit	3-1/2	
HSKN5-660-32	Rod Kit	4	
HSKN5-660-32V	Rod Kit	4	
HSKN5-660-36	Rod Kit	4-1/2	
HSKN5-660-36V	Rod Kit	4-1/2	
HSKN5-660-40	Rod Kit	5	
HSKN5-660-40V	Rod Kit	5	
HSKN5-660-44	Rod Kit	5-1/2	
HSKN5-660-44V	Rod Kit	5-1/2	
HSKN5-660-P-04	Rod Kit	1/2	1
HSKN5-660-P-04V	Rod Kit	1/2	1
HSKN5-660-P-05AV	Rod Kit	5/8	1
HSKN5-660-P-05V	Rod Kit	5/8	1.5 & UP
HSKN5-660-P-08	Rod Kit	1	2 & UP
HSKN5-660-P-08V	Rod Kit	1	2 & UP
HSKN5-660-P-11V	Rod Kit	1-3/8	2.5 & UP
HSKN5-660-P-14	Rod Kit	1-3/4	
HSKN5-660-P-14V	Rod Kit	1-3/4	
HSKN5-660-P-16V	Rod Kit	2	
HSKN5-660-P-20	Rod Kit	2-1/2	
HSKN5-660-P-20V	Rod Kit	2-1/2	
HSKN5-660-P-24V	Rod Kit	3	



HYDRO-LINE

HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HSKN5-660-P-28	Rod Kit	3-1/2	
HSKN5-660-P-28V	Rod Kit	3-1/2	
HSKN5-660-P-32V	Rod Kit	4	
HSKN5-660-P-36V	Rod Kit	4-1/2	
HSKN5-660-P-40V	Rod Kit	5	
HSKN5-660-P-44V	Rod Kit	5-1/2	
HSKN5-681-05	Rod Kit	5/8	1
HSKN5-681-05A	Rod Kit	5/8	
HSKN5-681-08	Rod Kit	1	
HSKN5-681-11	Rod Kit	1-3/8	
HSKN5-681-14	Rod Kit	1-3/4	
HSKN5-681-16	Rod Kit	2	
HSKN5-681-20	Rod Kit	2-1/2	
HSKN5-681-24	Rod Kit	3	
HSKN5-681-28	Rod Kit	3-1/2	
HSKN5-681-32	Rod Kit	4	
HSKN5-681-36	Rod Kit	4-1/2	
HSKN5-681-40	Rod Kit	5	
HSKN5-681-44	Rod Kit	5-1/2	
HSKR2-662-05A	Rod Kit	5/8	1
HSKR2-662-05AV	Rod Kit	5/8	1
HSKR2-662-08	Rod Kit	1	1.5,2,2.5
HSKR2-662-08V	Rod Kit	1	1.5,2,2.5
HSKR2-662-11	Rod Kit	1-3/8	2, 2.5
HSKR2-662-11V	Rod Kit	1-3/8	2, 2.5
HSKR2-662-14	Rod Kit	1-3/4	2.5
HSKR2-662-14V	Rod Kit	1-3/4	2.5
HSKR2-662-P-05AV	Rod Kit	5/8	1
HSKR2-662-P-08V	Rod Kit	1	1.5,2,2.5
HSKR2-662-P-11V	Rod Kit	1-3/8	2, 2.5
HSKR2-662-P-14V	Rod Kit	1-3/4	2.5
HSKR2-681-05A	Rod Kit	5/8	1
HSKR2-681-08	Rod Kit	1	1.5,2,2.5
HSKR2-681-11	Rod Kit	1-3/8	2, 2.5
HSKR2-681-14	Rod Kit	1-3/4	2.5
HSKR5-511-02	Piston Ring Kit		1
HSKR5-511-03	Piston Ring Kit		1-1/2
HSKR5-511-04	Piston Ring Kit		2
HSKR5-511-05	Piston Ring Kit		2-1/2
HSKR5-511-065	Piston Ring Kit		3-1/4
HSKR5-511-08	Piston Ring Kit		4
HSKR5-511-10	Piston Ring Kit		5
HSKR5-511-12	Piston Ring Kit		6
HSKR5-511-16	Piston Ring Kit		8
HSKR5-511-20	Piston Ring Kit		10
HSKR5-511-24	Piston Ring Kit		12
HSKR5-512-02	Piston Kit		1
HSKR5-512-02V	Piston Kit		1
HSKR5-512-03	Piston Kit		1-1/2
HSKR5-512-03V	Piston Kit		1-1/2



HYDRO-LINE

Sales Part Number	Description	Rod Size	Bore Size
HSKR5-512-04	Piston Kit		2
HSKR5-512-04V	Piston Kit		2
HSKR5-512-05	Piston Kit		2-1/2
HSKR5-512-05V	Piston Kit		2-1/2
HSKR5-512-065	Piston Kit		3-1/4
HSKR5-512-065V	Piston Kit		3-1/4
HSKR5-512-08	Piston Kit		4
HSKR5-512-08V	Piston Kit		4
HSKR5-512-10	Piston Kit		5
HSKR5-512-10V	Piston Kit		5
HSKR5-512-12	Piston Kit		6
HSKR5-512-12V	Piston Kit		6
HSKR5-512-16	Piston Kit		8
HSKR5-512-16V	Piston Kit		8
HSKR5-512-20	Piston Kit		10
HSKR5-512-20V	Piston Kit		10
HSKR5-512-24	Piston Kit		12
HSKR5-512-24V	Piston Kit		12
HSKR5-512-28	Piston Kit		14
HSKR5-512-28V	Piston Kit		14

HYDRO-LINE



MILLER

Kit Type		Page
Rod Kit, Iron Gland	Star Bushing - A, J, & H Cylinders	46
	Pneumatic - A & C Cylinders	47
	Hydraulic - AJ, J, M & H Cylinders	48
Star Rod Kits	A, J, & H Cylinders	49
Rod Seal Cage Assembly	Hydraulic	50
Hat Packing	PTFE & Nitrile	51
PTFE Wiper	"U" Style - A, C, J, M, & H Cylinders	52
Iron Gland	Star Bushing Style for A, J, & H Cylinders - Retainer Held & Bolted	53
	A, C, J, M, & H Cylinders - Retainer Held & Bolted	54
Retainer	A, C, J, M, & H Cylinders	55
Caged Assembly Components	Rod Seal Cage, Wave Spring, & Bronze Pressure Ring	55
Piston Kits	A, J, & H Series Cylinders	56
Piston Kits	HV Series Cylinders	57
PTFE Tube Seal Cord	A, C, J, M, & H Cylinders	57
Piston U-seals	All Current Style Cylinders	58
Wear Rings	Air & Hydraulic Service	59
PTFE Tube End Seals	Continuous	60
	Various Kits	60
	Strip	61
Follower Seals	PTFE	61
Piston Cups	A, AJ, J, JW, H, & HW Cylinders	61
Repair Kits	By Part Number	63 - 70

MILLER / ORTMAN

ORTMAN

Kit Type		Page
Ortman Kits	Various Kits	70



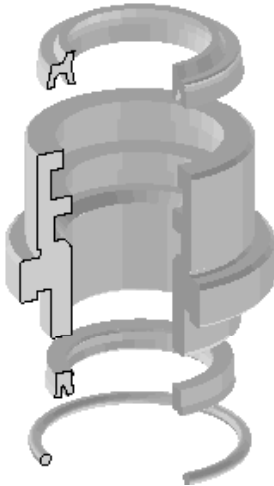
MILLER

Star Bushing Rod Kit, Iron Gland

A, J, & H Cylinders

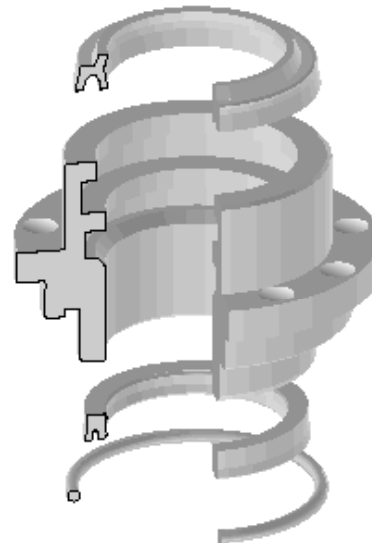
1998 Style Retainer Held

1998 Style Bolted



Kit Includes:

- 1 XNBR Wiper
- 1 Retainer Held Star Bushing
- 1 URE Rod Seal
- 1 NBR O-ring



Kit Includes:

- 1 XNBR Wiper
- 1 Bolted Star Bushing
- 1 URE Rod Seal
- 1 NBR O-ring

Rod Dia.	Kit #	Kit #
5/8"	MLR-051-KR074-063	MLR-051-KR075-063
1"	MLR-051-KR074-100	MLR-051-KR075-100
1-3/8"	MLR-051-KR074-138	MLR-051-KR075-138
1-3/4"	—	MLR-051-KR075-175
2"	—	MLR-051-KR075-200
2-1/2"	—	MLR-051-KR075-250
3"	—	MLR-051-KR075-300
3-1/2"	—	MLR-051-KR075-350
4"	—	MLR-051-KR075-400
4-1/2"	—	MLR-051-KR075-450
5"	—	MLR-051-KR075-500
5-1/2"	—	MLR-051-KR075-550

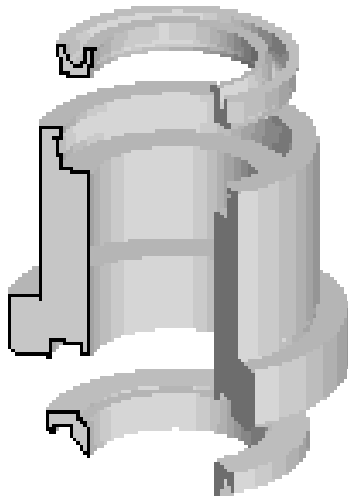
Bolted bushings from: 5/8" to 1-3/4" have 4 bolt holes
 2" to 4-1/2" have 8 bolt holes
 5" to 5-1/2" have 12 bolt holes

MILLER

Pneumatic Rod Kit, Iron Gland

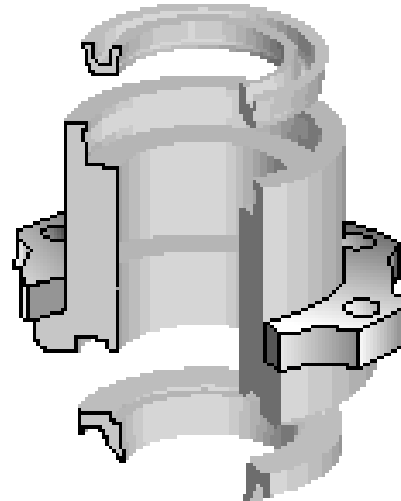
A & C Cylinders

Retainer Held



- Kit Includes:**
 1 PTFE Wiper
 1 Retainer Held Iron Gland
 1 NBR Hat Packing

Bolted



- Kit Includes:**
 1 PTFE Wiper
 1 Bolted Iron Gland
 1 NBR Hat Packing

Rod Dia.	Kit #	Kit #
5/8"	MLR-051-KR010-063	MLR-051-KR011-063
1"	MLR-051-KR010-100	MLR-051-KR011-100
1-3/8"	MLR-051-KR010-138	MLR-051-KR011-138
1-3/4"	MLR-051-KR010-175	MLR-051-KR011-175
2"	MLR-051-KR010-200	MLR-051-KR011-200
2-1/2"	MLR-051-KR010-250	MLR-051-KR011-250
3"	MLR-051-KR010-300	MLR-051-KR011-300

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



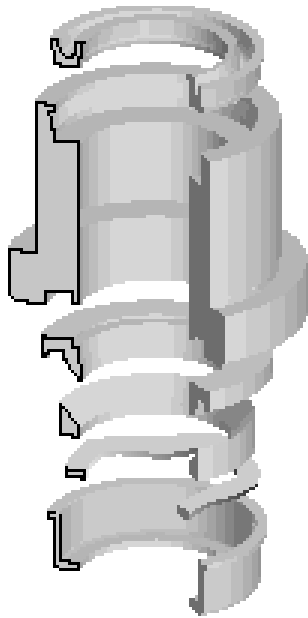


MILLER

Hydraulic Rod Kit, Iron Gland

AJ, J, M, & H Cylinders

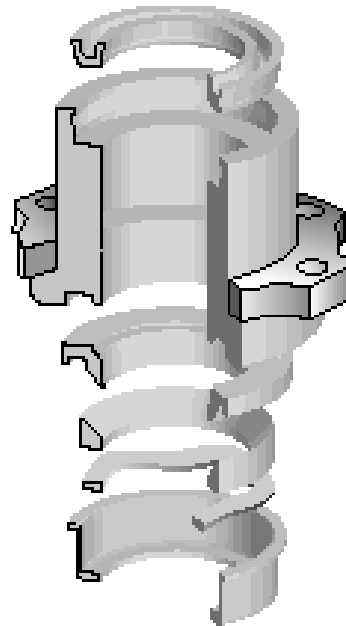
Retainer Held



Kit Includes:

- 1 PTFE Wiper
- 1 Retainer Held Iron Gland
- 1 PTFE Hat Packing
- 1 Bronze Pressure Ring
- 1 Wave Spring
- 1 Cage

Bolted



Kit Includes:

- 1 PTFE Wiper
- 1 Bolted Iron Gland
- 1 PTFE Hat Packing
- 1 Bronze Pressure Ring
- 1 Wave Spring
- 1 Cage

Rod Dia.	Kit #	Kit #
5/8"	MLR-051-KR014-063	MLR-051-KR015-063
1"	MLR-051-KR014-100	MLR-051-KR015-100
1-3/8"	MLR-051-KR014-138	MLR-051-KR015-138
1-3/4"	MLR-051-KR014-175	MLR-051-KR015-175
2"	MLR-051-KR014-200	MLR-051-KR015-200
2-1/2"	MLR-051-KR014-250	MLR-051-KR015-250
3"	MLR-051-KR014-300	MLR-051-KR015-300

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

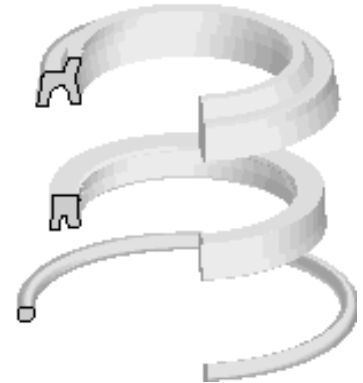
MILLER

Star Rod Kits

A, J, & H Cylinders Star Kits

Rod Dia.	Kit #
5/8"	MLR-051-KR080-063
1"	MLR-051-KR080-100
1-3/8"	MLR-051-KR080-138
1-3/4"	MLR-051-KR080-175
2"	MLR-051-KR080-200
2-1/2"	MLR-051-KR080-250
3"	MLR-051-KR080-300
3-1/2"	MLR-051-KR080-350
4"	MLR-051-KR080-400
4-1/2"	MLR-051-KR080-450
5"	MLR-051-KR080-500
5-1/2"	MLR-051-KR080-550

Kit Includes:
 1 XNBR Wiper
 1 URE Rod Seal
 1 NBR O-ring



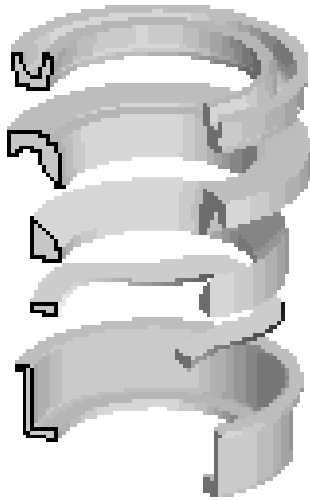
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Hydraulic Rod Seal Cage Assembly

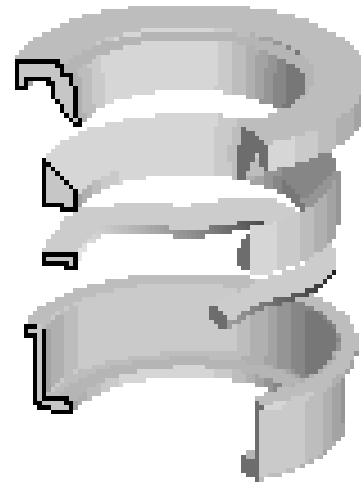
AJ, J, M, & H Cylinders



Kit Includes:

- 1 PTFE Wiper
- 1 PTFE Hat Packing
- 1 Bronze Pressure Ring
- 1 Wave Spring
- 1 Cage

Boosters & Tandems



Kit Includes:

- 1 PTFE Hat Packing
- 1 Bronze Pressure Ring
- 1 Wave Spring
- 1 Cage
- No Wiper

Rod Dia.	Kit #	Kit #
5/8"	MLR-051-KR012-063	MLR-051-KR024-063
1"	MLR-051-KR012-100	MLR-051-KR024-100
1-3/8"	MLR-051-KR012-138	MLR-051-KR024-138
1-3/4"	MLR-051-KR012-175	MLR-051-KR024-175
2"	MLR-051-KR012-200	MLR-051-KR024-200
2-1/2"	MLR-051-KR012-250	MLR-051-KR024-250
3"	MLR-051-KR012-300	MLR-051-KR024-300

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Hat Packing

For Hydraulic Service PTFE	For Air & Water Service Nitrile
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Rod Dia.	Part #	Part #
5/8"	MLR-051-RS007-063	MLR-051-RS014-063
1"	MLR-051-RS007-100	MLR-051-RS014-100
1-3/8"	MLR-051-RS007-138	MLR-051-RS014-138
1-3/4"	MLR-051-RS007-175	MLR-051-RS014-175
2"	MLR-051-RS007-200	MLR-051-RS014-200
2-1/2"	MLR-051-RS007-250	MLR-051-RS014-250
3"	MLR-051-RS007-300	MLR-051-RS014-300
3-1/2"	MLR-051-RS007-350	MLR-051-RS014-350
4"	MLR-051-RS007-400	MLR-051-RS014-400
4-1/2"	MLR-051-RS007-450	MLR-051-RS014-450
5"	MLR-051-RS007-500	MLR-051-RS014-500
5-1/2"	MLR-051-RS007-550	MLR-051-RS014-550
7"	MLR-051-RS007-700	—
8"	MLR-051-RS007-800	—
9"	MLR-051-RS007-900	—
10"	MLR-051-RS007-1000	—

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PTFE Wiper "U" Style

A, C, J, M, & H Cylinders

Rod Dia.	Part #
5/8"	MLR-051-WP001-063
1"	MLR-051-WP001-100
1-3/8"	MLR-051-WP001-138
1-3/4"	MLR-051-WP001-175
2"	MLR-051-WP001-200
2-1/2"	MLR-051-WP001-250
3"	MLR-051-WP001-300
3-1/2"	MLR-051-WP001-350
4"	MLR-051-WP001-400
4-1/2"	MLR-051-WP001-450
5"	MLR-051-WP001-500
5-1/2"	MLR-051-WP001-550
7"	MLR-051-WP001-700
8"	MLR-051-WP001-800
9"	MLR-051-WP001-900
10"	MLR-051-WP001-1000



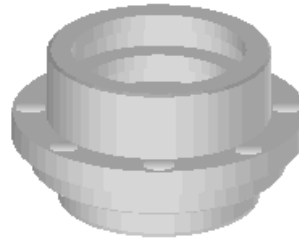
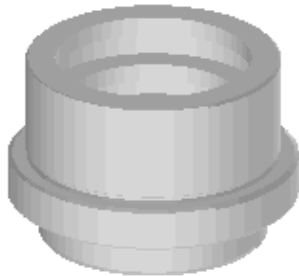
MILLER

Iron Gland

Star Bushing Style A, J, & H Cylinders

Retainer Held

Bolted



Rod Dia.	Part #	Part #
5/8"	MLR-050-BU100-063	MLR-050-BU101-063
1"	MLR-050-BU100-100	MLR-050-BU101-100
1-3/8"	MLR-050-BU100-138	MLR-050-BU101-138
1-3/4"	—	MLR-050-BU101-175
2"	—	MLR-050-BU101-200
2-1/2"	—	MLR-050-BU101-250
3"	—	MLR-050-BU101-300
3-1/2"	—	MLR-050-BU101-350
4"	—	MLR-050-BU101-400
4-1/2"	—	MLR-050-BU101-450
5"	—	MLR-050-BU101-500
5-1/2"	—	MLR-050-BU101-550

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

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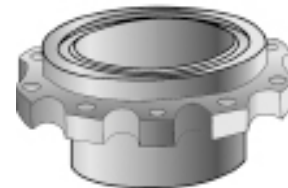
MILLER

Iron Gland

A, C, J, M, & H Cylinders

Retainer Held

Bolted



Rod Dia.	Part #	Part #
5/8"	MLR-050-BU022-063	MLR-050-BU024-063
1"	MLR-050-BU022-100	MLR-050-BU024-100
1-3/8"	MLR-050-BU022-138	MLR-050-BU024-138
1-3/4"	MLR-050-BU022-175	MLR-050-BU024-175
2"	MLR-050-BU022-200	MLR-050-BU024-200
2-1/2"	MLR-050-BU022-250	MLR-050-BU024-250
3"	MLR-050-BU022-300	MLR-050-BU024-300

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

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Retainer

A, C, J, M, & H Cylinders

Rod Dia.	Part #
5/8"	MLR-050-RT005-063
1"	MLR-050-RT005-100
1-3/8"	MLR-050-RT005-138



Caged Assembly Components

Rod Seal Cage	Wave Spring	Bronze Pressure Ring
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Rod Dia.	Part #	Part #	Part #
5/8"	MLR-051-CG001-063	MLR-051-WS004-063	MLR-051-PG001-063
1"	MLR-051-CG001-100	MLR-051-WS004-100	MLR-051-PG001-100
1-3/8"	MLR-051-CG001-138	MLR-051-WS004-138	MLR-051-PG001-138
1-3/4"	MLR-051-CG001-175	MLR-051-WS004-175	MLR-051-PG001-175
2"	MLR-051-CG001-200	MLR-051-WS003-200	MLR-051-PG001-200
2-1/2"	MLR-051-CG001-250	MLR-051-WS003-250	MLR-051-PG001-250
3"	MLR-051-CG001-300	MLR-051-WS003-300	MLR-051-PG001-300



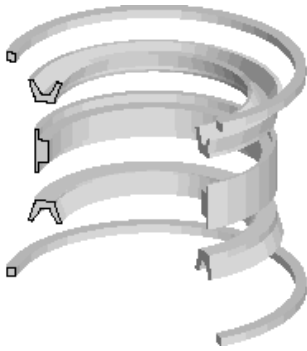


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Piston Kits

A Series Cylinders

January '82 to Current

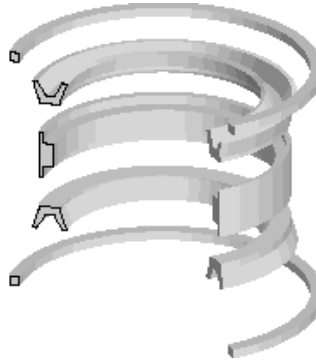


Kit Includes:

2 NBR U-seals
1 Wear Ring
2 PTFE Tube End Seals
(wear ring material and profile varies with size)

J Series Cylinders

January '81 to Current

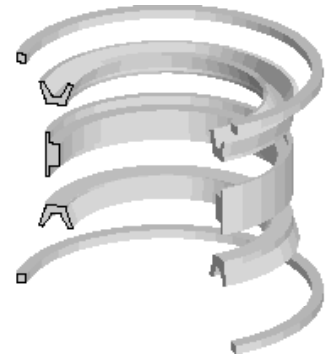


Kit Includes:

2 U-seals (1-PTFE up to 5",
1- NBR from 6" to 12")
1 Wear Ring
2 PTFE Tube End Seals
(wear ring and u-seal material and profile varies with size)

H Series Cylinders

January '82 to Current



Kit Includes:

2 PTFE U-seals
1 T-Shape Wear Ring
2 PTFE Tube End Seals
(wear ring material varies with size)

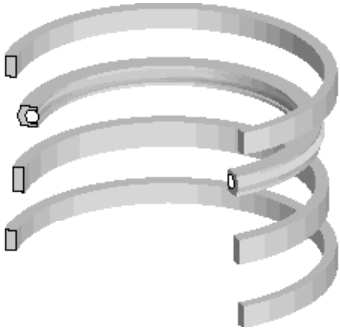
Bore Dia.	Kit #	Kit #	Kit #
1-1/2"	MLR-090-KB001-150	MLR-091-KB001-150	MLR-171-KB001-150
2"	MLR-090-KB001-200	MLR-091-KB001-200	MLR-171-KB001-200
2-1/2"	MLR-090-KB001-250	MLR-091-KB001-250	MLR-171-KB001-250
3-1/4"	MLR-090-KB001-325	MLR-091-KB001-325	MLR-171-KB001-325
4"	MLR-090-KB001-400	MLR-091-KB001-400	MLR-171-KB001-400
5"	MLR-090-KB001-500	MLR-091-KB001-500	MLR-171-KB001-500
6"	MLR-090-KB001-600	MLR-091-KB001-600	MLR-171-KB001-600
7"	MLR-090-KB001-700	MLR-091-KB001-700	MLR-171-KB001-700
8"	MLR-090-KB001-800	MLR-091-KB001-800	MLR-171-KB001-800
10"	MLR-090-KB001-1000	MLR-091-KB001-1000	MLR-171-KB001-1000
12"	MLR-090-KB001-1200	MLR-091-KB001-1200	MLR-171-KB001-1200

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Piston Kits

HV Series Cylinders Urethane

Bore Dia.	(URE) Kit #
1-1/2"	MLR-181-KB001-150
2"	MLR-181-KB001-200
2-1/2"	MLR-181-KB001-250
3-1/4"	MLR-181-KB001-325
4"	MLR-181-KB001-400
5"	MLR-181-KB001-500
6"	MLR-181-KB001-600
7"	MLR-181-KB001-700
8"	MLR-181-KB001-800



Kit Includes:
 1 URE Piston Seal
 1 Wear Ring
 2 PTFE Tube End Seals

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PTFE Tube Seal Cord

A, C, J, M, & H Cylinders



Part #	Radial Wall	Width
MLR-008-SH001-30	.030	.070
Includes: 30' spool of PTFE Head Seal		
MLR-SH1-STRIP	.030	.070



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Piston U-seals

All Current Style Cylinders

Buna-N

PTFE



Bore Dia.	Part #	Part #
1-1/2"	MLR-052-PS025-150	MLR-052-PS017-150
2"	MLR-052-PS025-200	MLR-052-PS017-200
2-1/2"	MLR-052-PS025-250	MLR-052-PS017-250
3-1/4"	MLR-052-PS025-325	MLR-052-PS017-325
4"	MLR-052-PS025-400	MLR-052-PS017-400
5"	MLR-052-PS025-500	MLR-052-PS017-500
6"	MLR-052-PS025-600	MLR-052-PS017-600
7"	MLR-052-PS025-700	MLR-052-PS017-700
8"	MLR-052-PS016-800	MLR-052-PS017-800
10"	MLR-052-PS025-1000	MLR-052-PS017-1000
12"	MLR-052-PS016-1200	MLR-052-PS017-1200
14"	MLR-052-PS025-1400	MLR-052-PS017-1400
16"	MLR-052-PS025-1600	MLR-052-PS017-1600
18"	—	MLR-052-PS017-1800
20"	—	MLR-052-PS017-2000

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Wear Rings

	Air Service PTFE	Hydraulic Service Acetal	Hydraulic Service Bronze
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Bore Dia.	Part #	Part #	Part #
1-1/2"	MLR-052-WR005-150-25	MLR-052-WR009-150-25	—
2"	MLR-052-WR005-200-25	MLR-052-WR009-200-25	—
2"	—	MLR-052-WR009-200-31	—
2-1/2"	MLR-052-WR005-250-25	MLR-052-WR009-250-25	—
2-1/2"	—	MLR-052-WR009-250-38	—
3-1/4"	MLR-052-WR005-325-25	MLR-052-WR009-325-25	—
3-1/4"	—	MLR-052-WR009-325-50	—
4"	MLR-052-WR005-400-25	MLR-052-WR009-400-25	—
4"	—	MLR-052-WR009-400-63	—
5"	MLR-052-WR005-500-25	—	—
5"	—	MLR-052-WR009-500-75	—
6"	MLR-052-WR005-600-25	—	—
6"	—	MLR-052-WR009-600-75	—
7"	MLR-052-WR005-700-38	—	—
7"	—	—	MLR-052-WR008-700-75
8"	MLR-052-WR005-800-38	—	—
8"	—	—	MLR-052-WR008-800-125
10"	MLR-052-WR005-1000-38	—	—
10"	—	—	MLR-052-WR008-1000-125
12"	MLR-052-WR005-1200-38	—	—
12"	—	—	MLR-052-WR008-1200-125
16"	MLR-052-WR005-1600-50	—	—
18"	MLR-052-WR005-1800-50	—	—
20"	MLR-052-WR005-2000-50	—	—

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Tube End Seals

Continuous PTFE

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

H & ER6000



Bore Dia.	Part #	Part #
1-1/2"	MLR-090-ES009-150	MLR-170-ES010-150
2"	MLR-090-ES009-200	MLR-170-ES010-200
2-1/2"	MLR-090-ES009-250	MLR-170-ES010-250
3-1/4"	MLR-090-ES009-325	MLR-170-ES010-325
4"	MLR-090-ES009-400	MLR-170-ES010-400
5"	MLR-090-ES009-500	MLR-170-ES010-500
6"	MLR-090-ES009-600	MLR-170-ES010-600
7"	MLR-090-ES009-700	MLR-170-ES010-700
8"	MLR-090-ES009-800	MLR-170-ES010-800
10"	MLR-090-ES009-1000	MLR-170-ES010-1000
12"	MLR-090-ES009-1200	MLR-170-ES010-1200
14"	MLR-090-ES009-1400	—

Various Kits

Kit #	Rod x Bore
MLR-150-KB001-325	3-1/4
MLR-150-KB001-500	5

Kit Includes:

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

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Tube End Seals

Strip PTFE

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

H & ER6000



Bore Dia.	Part #	Part #
1-1/2"	MLR-090-ES006-150	MLR-170-ES006-150
2"	MLR-090-ES006-200	MLR-170-ES006-200
2-1/2"	MLR-090-ES006-250	MLR-170-ES006-250
3-1/4"	MLR-090-ES006-325	MLR-170-ES006-325
4"	MLR-090-ES006-400	MLR-170-ES006-400
5"	MLR-090-ES006-500	MLR-170-ES006-500
6"	MLR-090-ES006-600	MLR-170-ES006-600
7"	MLR-090-ES006-700	MLR-170-ES006-700
8"	MLR-090-ES006-800	MLR-170-ES006-800
10"	MLR-090-ES006-1000	MLR-170-ES006-1000
12"	MLR-090-ES006-1200	MLR-170-ES006-1200
14"	MLR-090-ES006-1400	MLR-170-ES006-1400
18"	—	MLR-170-ES006-1800

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PTFE Follower Seals

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



Part #	Bore		I.D.	Radial Wall	Width
	H	J			
MLR-052-FS001-44	1-1/2	1-1/2, 2, 2-1/2	7/16	0.070	0.070
MLR-052-FS001-75	2, 2-1/2	3-1/4, 4, 5	3/4	0.070	0.070
MLR-052-FS001-100	3-1/4	6, 7, 8	1	0.142	0.142
MLR-052-FS001-125	4	10	1-1/4	0.142	0.142
MLR-052-FS001-150	5	12	1-1/2	0.142	0.142
MLR-052-FS001-188	6	14	1-7/8	0.142	0.142
MLR-052-FS001-250	8	-	2-1/2	0.142	0.142



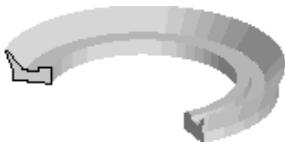
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Piston Cups

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 #	Part #	Part #
1-1/2"	MLR-052-PS001-150	MLR-052-PS003-150	MLR-052-PS006-150
2"	MLR-052-PS001-200	MLR-052-PS003-200	MLR-052-PS006-200
2-1/2"	MLR-052-PS001-250	MLR-052-PS003-250	MLR-052-PS006-250
3-1/4"	MLR-052-PS001-325	MLR-052-PS003-325	MLR-052-PS006-325
4"	MLR-052-PS001-400	MLR-052-PS003-400	MLR-052-PS006-400
5"	MLR-052-PS001-500	MLR-052-PS003-500	MLR-052-PS006-500
6"	MLR-052-PS001-600	MLR-052-PS003-600	MLR-052-PS006-600
7"	—	—	MLR-052-PS006-700
8"	MLR-052-PS001-800	—	MLR-052-PS006-800
10"	MLR-052-PS001-1000	—	MLR-052-PS006-1000
12"	MLR-052-PS001-1200	—	MLR-052-PS006-1200
14"	MLR-052-PS001-1400	—	—

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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-050-BU022-063	Iron Gland	5/8				
MLR-050-BU022-100	Iron Gland	1				
MLR-050-BU022-138	Iron Gland	1-3/8				
MLR-050-BU022-175	Iron Gland	1-3/4				
MLR-050-BU022-200	Iron Gland	2				
MLR-050-BU022-250	Iron Gland	2-1/2				
MLR-050-BU022-300	Iron Gland	3				
MLR-050-BU024-063	Iron Gland	5/8				
MLR-050-BU024-100	Iron Gland	1				
MLR-050-BU024-138	Iron Gland	1-3/8				
MLR-050-BU024-175	Iron Gland	1-3/4				
MLR-050-BU024-200	Iron Gland	2				
MLR-050-BU024-250	Iron Gland	2-1/2				
MLR-050-BU024-300	Iron Gland	3				
MLR-050-BU100-063	Iron Gland	5/8				
MLR-050-BU100-100	Iron Gland	1				
MLR-050-BU100-138	Iron Gland	1-3/8				
MLR-050-BU101-063	Iron Gland	5/8				
MLR-050-BU101-100	Iron Gland	1				
MLR-050-BU101-138	Iron Gland	1-3/8				
MLR-050-BU101-175	Iron Gland	1-3/4				
MLR-050-BU101-200	Iron Gland	2				
MLR-050-BU101-250	Iron Gland	2-1/2				
MLR-050-BU101-300	Iron Gland	3				
MLR-050-BU101-350	Iron Gland	3-1/2				
MLR-050-BU101-400	Iron Gland	4				
MLR-050-BU101-450	Iron Gland	4-1/2				
MLR-050-BU101-500	Iron Gland	5				
MLR-050-BU101-550	Iron Gland	5-1/2				
MLR-050-RT005-063	Retainer	5/8				
MLR-050-RT005-100	Retainer	1				
MLR-050-RT005-138	Retainer	1-3/8				
MLR-051-CG001-063	Rod Seal Cage	5/8				
MLR-051-CG001-100	Rod Seal Cage	1				
MLR-051-CG001-138	Rod Seal Cage	1-3/8				
MLR-051-CG001-175	Rod Seal Cage	1-3/4				
MLR-051-CG001-200	Rod Seal Cage	2				
MLR-051-CG001-250	Rod Seal Cage	2-1/2				
MLR-051-CG001-300	Rod Seal Cage	3				
MLR-051-KR010-063	Rod Kit - Gland	5/8				
MLR-051-KR010-100	Rod Kit - Gland	1				
MLR-051-KR010-138	Rod Kit - Gland	1-3/8				
MLR-051-KR010-175	Rod Kit - Gland	1-3/4				
MLR-051-KR010-200	Rod Kit - Gland	2				
MLR-051-KR010-250	Rod Kit - Gland	2-1/2				
MLR-051-KR010-300	Rod Kit - Gland	3				
MLR-051-KR011-063	Rod Kit - Gland	5/8				
MLR-051-KR011-100	Rod Kit - Gland	1				
MLR-051-KR011-138	Rod Kit - Gland	1-3/8				
MLR-051-KR011-175	Rod Kit - Gland	1-3/4				



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-051-KR011-200	Rod Kit - Gland	2				
MLR-051-KR011-250	Rod Kit - Gland	2-1/2				
MLR-051-KR011-300	Rod Kit - Gland	3				
MLR-051-KR012-063	Rod Kit - Cage Assembly	5/8				
MLR-051-KR012-100	Rod Kit - Cage Assembly	1				
MLR-051-KR012-138	Rod Kit - Cage Assembly	1-3/8				
MLR-051-KR012-175	Rod Kit - Cage Assembly	1-3/4				
MLR-051-KR012-200	Rod Kit - Cage Assembly	2				
MLR-051-KR012-250	Rod Kit - Cage Assembly	2-1/2				
MLR-051-KR012-300	Rod Kit - Cage Assembly	3				
MLR-051-KR014-063	Rod Kit - Gland	5/8				
MLR-051-KR014-100	Rod Kit - Gland	1				
MLR-051-KR014-138	Rod Kit - Gland	1-3/8				
MLR-051-KR014-175	Rod Kit - Gland	1-3/4				
MLR-051-KR014-200	Rod Kit - Gland	2				
MLR-051-KR014-250	Rod Kit - Gland	2-1/2				
MLR-051-KR014-300	Rod Kit - Gland	3				
MLR-051-KR015-063	Rod Kit - Gland	5/8				
MLR-051-KR015-100	Rod Kit - Gland	1				
MLR-051-KR015-138	Rod Kit - Gland	1-3/8				
MLR-051-KR015-175	Rod Kit - Gland	1-3/4				
MLR-051-KR015-200	Rod Kit - Gland	2				
MLR-051-KR015-250	Rod Kit - Gland	2-1/2				
MLR-051-KR015-300	Rod Kit - Gland	3				
MLR-051-KR024-063	Rod Kit - Cage Assembly	5/8				
MLR-051-KR024-100	Rod Kit - Cage Assembly	1				
MLR-051-KR024-138	Rod Kit - Cage Assembly	1-3/8				
MLR-051-KR024-175	Rod Kit - Cage Assembly	1-3/4				
MLR-051-KR024-200	Rod Kit - Cage Assembly	2				
MLR-051-KR024-250	Rod Kit - Cage Assembly	2-1/2				
MLR-051-KR024-300	Rod Kit - Cage Assembly	3				
MLR-051-KR074-063	Rod Kit - Gland	5/8				
MLR-051-KR074-100	Rod Kit - Gland	1				
MLR-051-KR074-138	Rod Kit - Gland	1-3/8				
MLR-051-KR075-063	Rod Kit - Gland	5/8				
MLR-051-KR075-100	Rod Kit - Gland	1				
MLR-051-KR075-138	Rod Kit - Gland	1-3/8				
MLR-051-KR075-175	Rod Kit - Gland	1-3/4				
MLR-051-KR075-200	Rod Kit - Gland	2				
MLR-051-KR075-250	Rod Kit - Gland	2-1/2				
MLR-051-KR075-300	Rod Kit - Gland	3				
MLR-051-KR075-350	Rod Kit - Gland	3-1/2				
MLR-051-KR075-400	Rod Kit - Gland	4				
MLR-051-KR075-450	Rod Kit - Gland	4-1/2				
MLR-051-KR075-500	Rod Kit - Gland	5				
MLR-051-KR075-550	Rod Kit - Gland	5-1/2				
MLR-051-KR080-063	Rod Kit - Seal	5/8				
MLR-051-KR080-100	Rod Kit - Seal	1				
MLR-051-KR080-138	Rod Kit - Seal	1-3/8				
MLR-051-KR080-175	Rod Kit - Seal	1-3/4				



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-051-KR080-200	Rod Kit - Seal	2				
MLR-051-KR080-250	Rod Kit - Seal	2-1/2				
MLR-051-KR080-300	Rod Kit - Seal	3				
MLR-051-KR080-350	Rod Kit - Seal	3-1/2				
MLR-051-KR080-400	Rod Kit - Seal	4				
MLR-051-KR080-450	Rod Kit - Seal	4-1/2				
MLR-051-KR080-500	Rod Kit - Seal	5				
MLR-051-KR080-550	Rod Kit - Seal	5-1/2				
MLR-051-PG001-063	Bronze Pressure Ring	5/8				
MLR-051-PG001-100	Bronze Pressure Ring	1				
MLR-051-PG001-138	Bronze Pressure Ring	1-3/8				
MLR-051-PG001-175	Bronze Pressure Ring	1-3/4				
MLR-051-PG001-200	Bronze Pressure Ring	2				
MLR-051-PG001-250	Bronze Pressure Ring	2-1/2				
MLR-051-PG001-300	Bronze Pressure Ring	3				
MLR-051-RS007-063	Hat Packing - PTFE	5/8				
MLR-051-RS007-100	Hat Packing - PTFE	1				
MLR-051-RS007-1000	Hat Packing - PTFE	10				
MLR-051-RS007-138	Hat Packing - PTFE	1-3/8				
MLR-051-RS007-175	Hat Packing - PTFE	1-3/4				
MLR-051-RS007-200	Hat Packing - PTFE	2				
MLR-051-RS007-250	Hat Packing - PTFE	2-1/2				
MLR-051-RS007-300	Hat Packing - PTFE	3				
MLR-051-RS007-350	Hat Packing - PTFE	3-1/2				
MLR-051-RS007-400	Hat Packing - PTFE	4				
MLR-051-RS007-450	Hat Packing - PTFE	4-1/2				
MLR-051-RS007-500	Hat Packing - PTFE	5				
MLR-051-RS007-550	Hat Packing - PTFE	5-1/2				
MLR-051-RS007-700	Hat Packing - PTFE	7				
MLR-051-RS007-800	Hat Packing - PTFE	8				
MLR-051-RS007-900	Hat Packing - PTFE	9				
MLR-051-RS014-063	Hat Packing - Nitrile	5/8				
MLR-051-RS014-100	Hat Packing - Nitrile	1				
MLR-051-RS014-138	Hat Packing - Nitrile	1-3/8				
MLR-051-RS014-175	Hat Packing - Nitrile	1-3/4				
MLR-051-RS014-200	Hat Packing - Nitrile	2				
MLR-051-RS014-250	Hat Packing - Nitrile	2-1/2				
MLR-051-RS014-300	Hat Packing - Nitrile	3				
MLR-051-RS014-350	Hat Packing - Nitrile	3-1/2				
MLR-051-RS014-400	Hat Packing - Nitrile	4				
MLR-051-RS014-450	Hat Packing - Nitrile	4-1/2				
MLR-051-RS014-500	Hat Packing - Nitrile	5				
MLR-051-RS014-550	Hat Packing - Nitrile	5-1/2				
MLR-051-WP001-063	U' Style Wiper - PTFE	5/8				
MLR-051-WP001-100	U' Style Wiper - PTFE	1				
MLR-051-WP001-1000	U' Style Wiper - PTFE	10				
MLR-051-WP001-138	U' Style Wiper - PTFE	1-3/8				
MLR-051-WP001-175	U' Style Wiper - PTFE	1-3/4				
MLR-051-WP001-200	U' Style Wiper - PTFE	2				
MLR-051-WP001-250	U' Style Wiper - PTFE	2-1/2				



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-051-WP001-300	U' Style Wiper - PTFE	3				
MLR-051-WP001-350	U' Style Wiper - PTFE	3-1/2				
MLR-051-WP001-400	U' Style Wiper - PTFE	4				
MLR-051-WP001-450	U' Style Wiper - PTFE	4-1/2				
MLR-051-WP001-500	U' Style Wiper - PTFE	5				
MLR-051-WP001-550	U' Style Wiper - PTFE	5-1/2				
MLR-051-WP001-700	U' Style Wiper - PTFE	7				
MLR-051-WP001-800	U' Style Wiper - PTFE	8				
MLR-051-WP001-900	U' Style Wiper - PTFE	9				
MLR-051-WS003-200	Wave Spring	2				
MLR-051-WS003-250	Wave Spring	2-1/2				
MLR-051-WS003-300	Wave Spring	3				
MLR-051-WS004-063	Wave Spring	5/8				
MLR-051-WS004-100	Wave Spring	1				
MLR-051-WS004-138	Wave Spring	1-3/8				
MLR-051-WS004-175	Wave Spring	1-3/4				
MLR-052-FS001-100	Follower Seal			1	0.142	0.142
MLR-052-FS001-125	Follower Seal			1-1/4	0.142	0.142
MLR-052-FS001-150	Follower Seal			1-1/2	0.142	0.142
MLR-052-FS001-188	Follower Seal			1-7/8	0.142	0.142
MLR-052-FS001-250	Follower Seal			2-1/2	0.142	0.142
MLR-052-FS001-44	Follower Seal			7/16	0.070	0.070
MLR-052-FS001-75	Follower Seal			3/4	0.070	0.070
MLR-052-PS001-1000	Piston Cup - Nitrile		10			
MLR-052-PS001-1200	Piston Cup - Nitrile		12			
MLR-052-PS001-1400	Piston Cup - Nitrile		14			
MLR-052-PS001-150	Piston Cup - Nitrile		1-1/2			
MLR-052-PS001-200	Piston Cup - Nitrile		2			
MLR-052-PS001-250	Piston Cup - Nitrile		2-1/2			
MLR-052-PS001-325	Piston Cup - Nitrile		3-1/4			
MLR-052-PS001-400	Piston Cup - Nitrile		4			
MLR-052-PS001-500	Piston Cup - Nitrile		5			
MLR-052-PS001-600	Piston Cup - Nitrile		6			
MLR-052-PS001-800	Piston Cup - Nitrile		8			
MLR-052-PS003-150	Piston Cup - Leather		1-1/2			
MLR-052-PS003-200	Piston Cup - Leather		2			
MLR-052-PS003-250	Piston Cup - Leather		2-1/2			
MLR-052-PS003-325	Piston Cup - Leather		3-1/4			
MLR-052-PS003-400	Piston Cup - Leather		4			
MLR-052-PS003-500	Piston Cup - Leather		5			
MLR-052-PS003-600	Piston Cup - Leather		6			
MLR-052-PS006-1000	Piston Cup - PTFE		10			
MLR-052-PS006-1200	Piston Cup - PTFE		12			
MLR-052-PS006-150	Piston Cup - PTFE		1-1/2			
MLR-052-PS006-200	Piston Cup - PTFE		2			
MLR-052-PS006-250	Piston Cup - PTFE		2-1/2			
MLR-052-PS006-325	Piston Cup - PTFE		3-1/4			
MLR-052-PS006-400	Piston Cup - PTFE		4			
MLR-052-PS006-500	Piston Cup - PTFE		5			
MLR-052-PS006-600	Piston Cup - PTFE		6			



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-052-PS006-700	Piston Cup - PTFE		7			
MLR-052-PS006-800	Piston Cup - PTFE		8			
MLR-052-PS016-1200	Piston U-seal - Nitrile		12			
MLR-052-PS016-800	Piston U-seal - Nitrile		8			
MLR-052-PS017-1000	Piston U-seal - PTFE		10			
MLR-052-PS017-1200	Piston U-seal - PTFE		12			
MLR-052-PS017-1400	Piston U-seal - PTFE		14			
MLR-052-PS017-150	Piston U-seal - PTFE		1-1/2			
MLR-052-PS017-1600	Piston U-seal - PTFE		16			
MLR-052-PS017-1800	Piston U-seal - PTFE		18			
MLR-052-PS017-200	Piston U-seal - PTFE		2			
MLR-052-PS017-2000	Piston U-seal - PTFE		20			
MLR-052-PS017-250	Piston U-seal - PTFE		2-1/2			
MLR-052-PS017-325	Piston U-seal - PTFE		3-1/4			
MLR-052-PS017-400	Piston U-seal - PTFE		4			
MLR-052-PS017-500	Piston U-seal - PTFE		5			
MLR-052-PS017-600	Piston U-seal - PTFE		6			
MLR-052-PS017-700	Piston U-seal - PTFE		7			
MLR-052-PS017-800	Piston U-seal - PTFE		8			
MLR-052-PS025-1000	Piston U-seal - Nitrile		10			
MLR-052-PS025-1400	Piston U-seal - Nitrile		14			
MLR-052-PS025-150	Piston U-seal - Nitrile		1-1/2			
MLR-052-PS025-1600	Piston U-seal - Nitrile		16			
MLR-052-PS025-200	Piston U-seal - Nitrile		2			
MLR-052-PS025-250	Piston U-seal - Nitrile		2-1/2			
MLR-052-PS025-325	Piston U-seal - Nitrile		3-1/4			
MLR-052-PS025-400	Piston U-seal - Nitrile		4			
MLR-052-PS025-500	Piston U-seal - Nitrile		5			
MLR-052-PS025-600	Piston U-seal - Nitrile		6			
MLR-052-PS025-700	Piston U-seal - Nitrile		7			
MLR-052-WR005-1000-38	Wear Ring - PTFE		10			
MLR-052-WR005-1200-38	Wear Ring - PTFE		12			
MLR-052-WR005-150-25	Wear Ring - PTFE		1-1/2			
MLR-052-WR005-1600-50	Wear Ring - PTFE		16			
MLR-052-WR005-1800-50	Wear Ring - PTFE		18			
MLR-052-WR005-2000-50	Wear Ring - PTFE		20			
MLR-052-WR005-200-25	Wear Ring - PTFE		2			
MLR-052-WR005-250-25	Wear Ring - PTFE		2-1/2			
MLR-052-WR005-325-25	Wear Ring - PTFE		3-1/4			
MLR-052-WR005-400-25	Wear Ring - PTFE		4			
MLR-052-WR005-500-25	Wear Ring - PTFE		5			
MLR-052-WR005-600-25	Wear Ring - PTFE		6			
MLR-052-WR005-700-38	Wear Ring - PTFE		7			
MLR-052-WR005-800-38	Wear Ring - PTFE		8			
MLR-052-WR008-1000-125	Wear Ring - Bronze		10			
MLR-052-WR008-1200-125	Wear Ring - Bronze		12			
MLR-052-WR008-700-75	Wear Ring - Bronze		7			
MLR-052-WR008-800-125	Wear Ring - Bronze		8			
MLR-052-WR009-150-25	Wear Ring - Acetal		1-1/2			
MLR-052-WR009-200-25	Wear Ring - Acetal		2			



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-052-WR009-200-31	Wear Ring - Acetal		2			
MLR-052-WR009-250-25	Wear Ring - Acetal		2-1/2			
MLR-052-WR009-250-38	Wear Ring - Acetal		2-1/2			
MLR-052-WR009-325-25	Wear Ring - Acetal		3-1/4			
MLR-052-WR009-325-50	Wear Ring - Acetal		3-1/4			
MLR-052-WR009-400-25	Wear Ring - Acetal		4			
MLR-052-WR009-400-63	Wear Ring - Acetal		4			
MLR-052-WR009-500-75	Wear Ring - Acetal		5			
MLR-052-WR009-600-75	Wear Ring - Acetal		6			
MLR-090-ES006-1000	Tube End Seal		10			
MLR-090-ES006-1200	Tube End Seal		12			
MLR-090-ES006-1400	Tube End Seal		14			
MLR-090-ES006-150	Tube End Seal		1-1/2			
MLR-090-ES006-200	Tube End Seal		2			
MLR-090-ES006-250	Tube End Seal		2-1/2			
MLR-090-ES006-325	Tube End Seal		3-1/4			
MLR-090-ES006-400	Tube End Seal		4			
MLR-090-ES006-500	Tube End Seal		5			
MLR-090-ES006-600	Tube End Seal		6			
MLR-090-ES006-700	Tube End Seal		7			
MLR-090-ES006-800	Tube End Seal		8			
MLR-090-ES009-1000	Tube End Seal		10			
MLR-090-ES009-1200	Tube End Seal		12			
MLR-090-ES009-1400	Tube End Seal		14			
MLR-090-ES009-150	Tube End Seal		1-1/2			
MLR-090-ES009-200	Tube End Seal		2			
MLR-090-ES009-250	Tube End Seal		2-1/2			
MLR-090-ES009-325	Tube End Seal		3-1/4			
MLR-090-ES009-400	Tube End Seal		4			
MLR-090-ES009-500	Tube End Seal		5			
MLR-090-ES009-600	Tube End Seal		6			
MLR-090-ES009-700	Tube End Seal		7			
MLR-090-ES009-800	Tube End Seal		8			
MLR-090-KB001-1000	Piston Kit		10			
MLR-090-KB001-1200	Piston Kit		12			
MLR-090-KB001-150	Piston Kit		1-1/2			
MLR-090-KB001-200	Piston Kit		2			
MLR-090-KB001-250	Piston Kit		2-1/2			
MLR-090-KB001-325	Piston Kit		3-1/4			
MLR-090-KB001-400	Piston Kit		4			
MLR-090-KB001-500	Piston Kit		5			
MLR-090-KB001-600	Piston Kit		6			
MLR-090-KB001-700	Piston Kit		7			
MLR-090-KB001-800	Piston Kit		8			
MLR-091-KB001-1000	Piston Kit		10			
MLR-091-KB001-1200	Piston Kit		12			
MLR-091-KB001-150	Piston Kit		1-1/2			
MLR-091-KB001-200	Piston Kit		2			
MLR-091-KB001-250	Piston Kit		2-1/2			
MLR-091-KB001-325	Piston Kit		3-1/4			



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-091-KB001-400	Piston Kit		4			
MLR-091-KB001-500	Piston Kit		5			
MLR-091-KB001-600	Piston Kit		6			
MLR-091-KB001-700	Piston Kit		7			
MLR-091-KB001-800	Piston Kit		8			
MLR-150-KB001-325	Piston Kit		3-1/4			
MLR-150-KB001-500	Piston Kit		5			
MLR-170-ES006-1000	Tube End Seal		10			
MLR-170-ES006-1200	Tube End Seal		12			
MLR-170-ES006-1400	Tube End Seal		14			
MLR-170-ES006-150	Tube End Seal		1-1/2			
MLR-170-ES006-1800	Tube End Seal		18			
MLR-170-ES006-200	Tube End Seal		2			
MLR-170-ES006-250	Tube End Seal		2-1/2			
MLR-170-ES006-325	Tube End Seal		3-1/4			
MLR-170-ES006-400	Tube End Seal		4			
MLR-170-ES006-500	Tube End Seal		5			
MLR-170-ES006-600	Tube End Seal		6			
MLR-170-ES006-700	Tube End Seal		7			
MLR-170-ES006-800	Tube End Seal		8			
MLR-170-ES010-1000	Tube End Seal		10			
MLR-170-ES010-1200	Tube End Seal		12			
MLR-170-ES010-150	Tube End Seal		1-1/2			
MLR-170-ES010-200	Tube End Seal		2			
MLR-170-ES010-250	Tube End Seal		2-1/2			
MLR-170-ES010-325	Tube End Seal		3-1/4			
MLR-170-ES010-400	Tube End Seal		4			
MLR-170-ES010-500	Tube End Seal		5			
MLR-170-ES010-600	Tube End Seal		6			
MLR-170-ES010-700	Tube End Seal		7			
MLR-170-ES010-800	Tube End Seal		8			
MLR-171-KB001-1000	Piston Kit		10			
MLR-171-KB001-1200	Piston Kit		12			
MLR-171-KB001-150	Piston Kit		1-1/2			
MLR-171-KB001-200	Piston Kit		2			
MLR-171-KB001-250	Piston Kit		2-1/2			
MLR-171-KB001-325	Piston Kit		3-1/4			
MLR-171-KB001-400	Piston Kit		4			
MLR-171-KB001-500	Piston Kit		5			
MLR-171-KB001-600	Piston Kit		6			
MLR-171-KB001-700	Piston Kit		7			
MLR-171-KB001-800	Piston Kit		8			
MLR-181-KB001-150	Piston Kit		1-1/2			
MLR-181-KB001-200	Piston Kit		2			
MLR-181-KB001-250	Piston Kit		2-1/2			
MLR-181-KB001-325	Piston Kit		3-1/4			
MLR-181-KB001-400	Piston Kit		4			
MLR-181-KB001-500	Piston Kit		5			
MLR-181-KB001-600	Piston Kit		6			
MLR-181-KB001-700	Piston Kit		7			



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Sales Part Number	Description	Rod Size	Bore Size	ID	Radial Wall	Width
MLR-181-KB001-800	Piston Kit		8			
MLR-008-SH001-30	0.03cs x 0.07w PTFE strip (30' Spool)					
MLR-SH1-STRIP	0.03cs x 0.07w PTFE strip (sold by the foot)					

ORTMAN

Various Kits

Kit #	Code	Rod x Bore
ORT-RS003540010	1-U-1	5/8 Rod Kit
ORT-RS003540020	1-U-1	1 Rod Kit
ORT-RS003540040	1-U-1	1-3/4 Rod Kit
ORT-RS003540060	1-U-1	2-1/2 Rod Kit
ORT-RS003540090	1-U-1	4" Rod Kit
ORT-TS563511000	N-N-5	3-1/4 Piston Kit
ORT-TS583511000	N-N-5	4 Piston Kit
ORT-TS603511000	N-N-5	6 Piston Kit
ORT-TS777512000	N-N-5	1-1/2 Piston Kit

Kit Composition Varies

Consult your representative.

MILLER / ORTMAN



PARKER

Kit Type		Page
Rod Gland Kits	A, 2A, H, 2H, VH, L, 2L, 3L, MA & 2MA Air Cylinders	72 - 76
Rod Kits	A, 2A, H, 2H, 3H, VH, L, 2L, 3L, HMI, 2MA Air & 2ML Cylinders	77 - 81
Bronze Rod Glands	A, 2A, H, 2H, VH, L, 2L, 3L, MA, HMI, 2MA Air & Hydraulic Cylinders	82 - 83
Gland Wrenches	For Parker Glands	83
Rod & Piston Seal Kits	MA Air Cylinders	84
Piston Kits	HL, 2HL, L, LL, 2LL, & 3LL Hydraulic Cylinders, 1A & 2A Air Cylinders, 2MA & 2ML Cylinders, L, 2L, 3L, H, 2H, HD, VH & HMI Cylinders	85 - 91
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PARKER



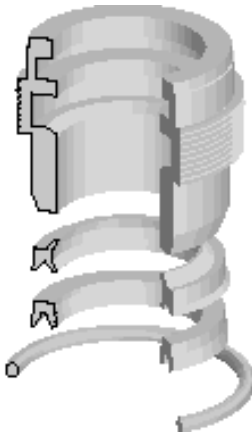
PARKER

Rod Gland Kits

A, 2A, H, 2H, VH, L, 2L, & 3L Cylinders

Nitrile

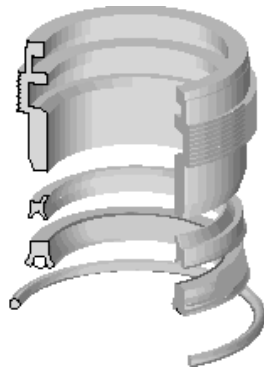
Fluorocarbon



1/2" - 3"

Kit Includes:

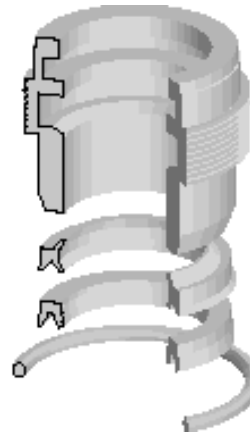
- 1 Bronze Gland
- 1 XNBR Wiper
- 1 URE Back-up Ring
- 1 NBR U-seal
- 1 NBR O-ring



3-1/2" - 5-1/2"

Kit Includes:

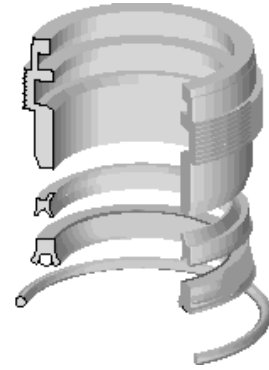
- 1 Bronze Gland
- 1 XNBR Wiper
- 1 NBR Loaded U-seal
- 1 NBR O-ring



1/2" - 3"

Kit Includes:

- 1 Bronze Gland
- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC U-seal
- 1 FC O-ring



3-1/2" - 5-1/2"

Kit Includes:

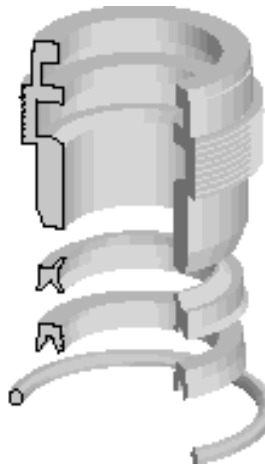
- 1 Bronze Gland
- 1 FC Wiper
- 1 FC Loaded U-seal
- 1 FC O-ring

Rod Dia.	Kit #	Kit #
1/2"	PKH-RG2AHL0051	PKH-RG2AHL0055
5/8"	PKH-RG2AHL0061	PKH-RG2AHL0065
1"	PKH-RG2AHL0101	PKH-RG2AHL0105
1-3/8"	PKH-RG2AHL0131	PKH-RG2AHL0135
1-3/4"	PKH-RG2AHL0171	PKH-RG2AHL0175
2"	PKH-RG2AHL0201	PKH-RG2AHL0205
2-1/2"	PKH-RG2AHL0251	PKH-RG2AHL0255
3"	PKH-RG2AHL0301	PKH-RG2AHL0305
3-1/2"	PKH-RG2AHL0351	PKH-RG2AHL0355
4"	PKH-RG2AHL0401	PKH-RG2AHL0405
4-1/2"	PKH-RG2AHL0451	PKH-RG2AHL0455
5"	PKH-RG2AHL0501	PKH-RG2AHL0505
5-1/2"	PKH-RG2AHL0551	PKH-RG2AHL0555

PARKER

Rod Gland Kits

H*, 2H*, 3H (7" & 8" Bore), VH, L, 2L, and 3L Cylinders
Urethane



1/2" - 5-1/2"

Kit Includes:

- 1 Bronze Gland
- 1 XNBR Wiper
- 1 Multi-lip Urethane U-seal
- 1 NBR O-ring

Rod Dia.	Kit #
1/2"	PKH-RG2HLTS051
5/8"	PKH-RG2HLTS061
1"	PKH-RG2HLTS101
1-3/8"	PKH-RG2HLTS131
1-3/4"	PKH-RG2HLTS171
2"	PKH-RG2HLTS201
2-1/2"	PKH-RG2HLTS251
3"	PKH-RG2HLTS301
3-1/2"	PKH-RG2HLTS351
4"	PKH-RG2HLTS401
4-1/2"	PKH-RG2HLTS451
5"	PKH-RG2HLTS501
5-1/2"	PKH-RG2HLTS551

* Excludes 10" and 12" Bore for Series H and 2H.

PARKER



PARKER

Rod Gland Kits

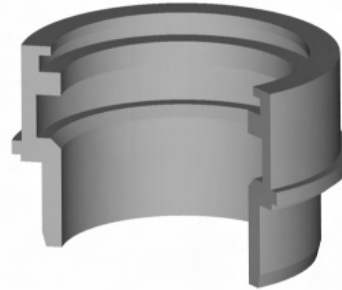
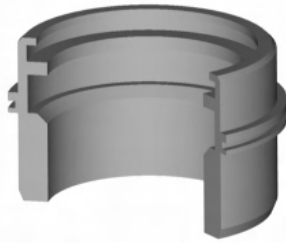
MA Air Cylinders

Nitrile

Fluorocarbon

5/8" Rod Gland profile

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



- Kit Includes:**
- 1 Bronze Gland
 - 1 URE Wiper
 - 1 PTFE Back-up Ring
 - 1 NBR Multi-lip U-seal
 - 1 NBR O-ring

- Kit Includes:**
- 1 Bronze Gland
 - 1 FC Wiper
 - 1 PTFE Back-up Ring
 - 1 FC Multi-lip U-seal
 - 1 FC O-ring

Rod Dia.	Kit #	Kit #
5/8"	PKH-RGL6948MA1	PKH-RGL6948MA5
1"	PKH-RGL6949MA1	PKH-RGL6949MA5
1-3/8"	PKH-RGL6950MA1	PKH-RGL6950MA5

PARKER

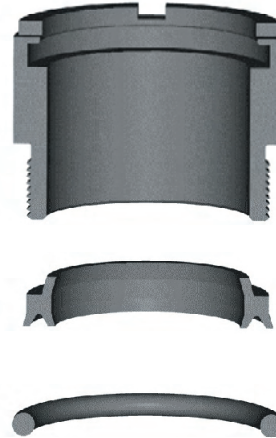
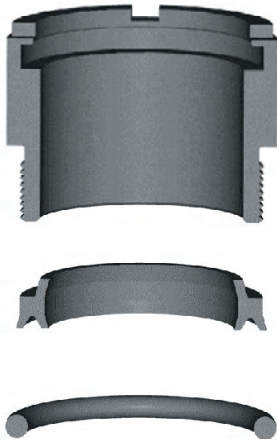
PARKER

Rod Gland Kits

2MA Air Cylinders

Nitrile

Fluorocarbon



1/2" - 1-3/4"

Kit Includes:

- 1 Bronze Gland
- 1 XNBR Wiper/Seal
- 1 NBR O-ring
- 1 Tube Seal Lubricant

1/2" - 1-3/4"

Kit Includes:

- 1 Bronze Gland
- 1 FC Wiper/Seal
- 1 FC O-ring
- 1 Tube Seal Lubricant

Rod Dia.	Kit #	Kit #
1/2"	PKH-RG02MA0051	PKH-RG02MA0055
5/8"	PKH-RG02MA0061	PKH-RG02MA0065
1"	PKH-RG02MA0101	PKH-RG02MA0105
1-3/8"	PKH-RG02MA0131	PKH-RG02MA0135
1-3/4"	PKH-RG02MA0171	PKH-RG02MA0175

PARKER

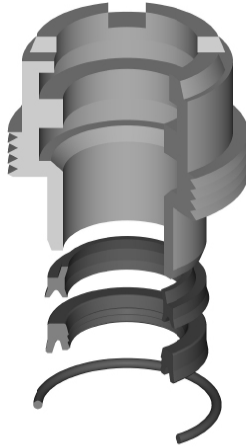


PARKER

Rod Gland Kits

HMI Cylinders

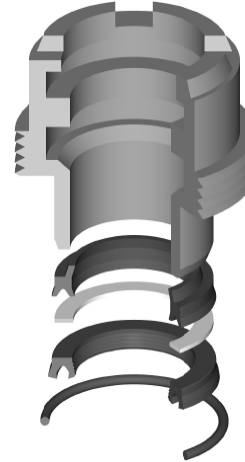
Urethane



Kit Includes:

- 1 Bronze Gland
- 1 URE Wiper
- 1 URE Multi-lip U-seal
- 1 NBR O-ring

Fluorocarbon



Kit Includes:

- 1 Bronze Gland
- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC Multi-lip U-seal
- 1 FC O-ring

Rod Dia.	Kit #	Kit #
12 mm	PKH-RG2HM0121	PKH-RG2HM0125
14 mm	PKH-RG2HM0141	PKH-RG2HM0145
18 mm	PKH-RG2HM0181	PKH-RG2HM0185
22 mm	PKH-RG2HM0221	PKH-RG2HM0225
28 mm	PKH-RG2HM0281	PKH-RG2HM0285
36 mm	PKH-RG2HM0361	PKH-RG2HM0365
45 mm	PKH-RG2HM0451	PKH-RG2HM0455
56 mm	PKH-RG2HM0561	PKH-RG2HM0565
70 mm	PKH-RG2HM0701	PKH-RG2HM0705

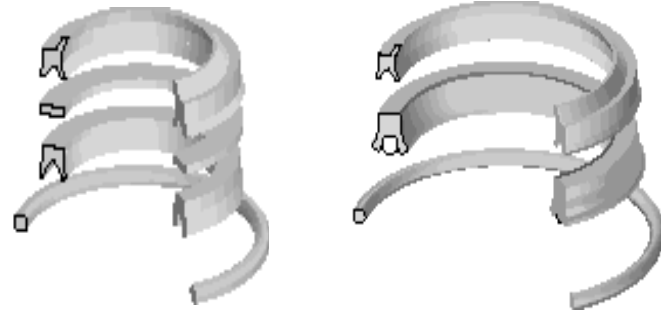
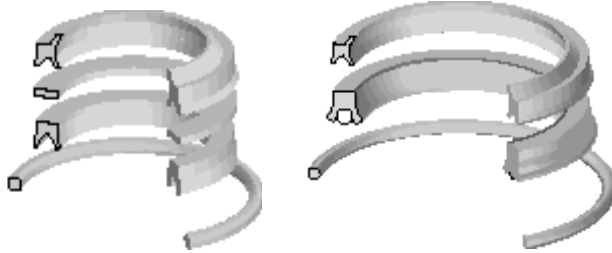
PARKER

Rod Kits

A, 2A, H, 2H, VH, L, 2L, & 3L Cylinders

Nitrile

Fluorocarbon



1/2" - 3"

Kit Includes:

- 1 XNBR Wiper
- 1 URE Back-up Ring
- 1 NBR U-seal
- 1 NBR O-ring

3-1/2" - 5-1/2"

Kit Includes:

- 1 XNBR Wiper
- 1 NBR Loaded U-seal
- 1 NBR O-ring

1/2" - 3"

Kit Includes:

- 1 FC Wiper
- 1 PTFE Back-up Ring
- 1 FC U-seal
- 1 FC O-ring

3-1/2" - 5-1/2"

Kit Includes:

- 1 FC Wiper
- 1 FC Loaded U-seal
- 1 FC O-ring

Rod Dia.	Kit #	Kit #
1/2"	PKH-RK2AHL0051	PKH-RK2AHL0055
5/8"	PKH-RK2AHL0061	PKH-RK2AHL0065
1"	PKH-RK2AHL0101	PKH-RK2AHL0105
1-3/8"	PKH-RK2AHL0131	PKH-RK2AHL0135
1-3/4"	PKH-RK2AHL0171	PKH-RK2AHL0175
2"	PKH-RK2AHL0201	PKH-RK2AHL0205
2-1/2"	PKH-RK2AHL0251	PKH-RK2AHL0255
3"	PKH-RK2AHL0301	PKH-RK2AHL0305
3-1/2"	PKH-RK2AHL0351	PKH-RK2AHL0355
4"	PKH-RK2AHL0401	PKH-RK2AHL0405
4-1/2"	PKH-RK2AHL0451	PKH-RK2AHL0455
5"	PKH-RK2AHL0501	PKH-RK2AHL0505
5-1/2"	PKH-RK2AHL0551	PKH-RK2AHL0555

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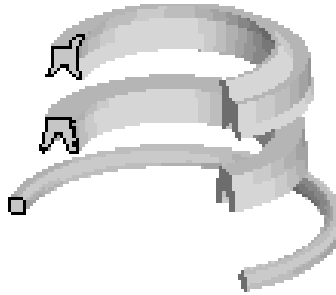


PARKER

Rod Kits

H*, 2H*, 3H (7" & 8" Bore), VH, L, 2L, and 3L Cylinders Urethane

Standard seals for Series 2H*, VH, 3L, and 3H (7" and 8" Bore) manufactured after September 30, 1990.
Interchangeable seals for Series H*, 2H*, VH, L, 2L, and 3L manufactured before September 30, 1990.



1/2" - 5-1/2"

Kit Includes:

- 1 XNBR Wiper
- 1 Multi-lip Urethane U-seal
- 1 NBR O-ring

Rod Dia.	Kit #
1/2"	PKH-RK2HLTS051
5/8"	PKH-RK2HLTS061
1"	PKH-RK2HLTS101
1-3/8"	PKH-RK2HLTS131
1-3/4"	PKH-RK2HLTS171
2"	PKH-RK2HLTS201
2-1/2"	PKH-RK2HLTS251
3"	PKH-RK2HLTS301
3-1/2"	PKH-RK2HLTS351
4"	PKH-RK2HLTS401
4-1/2"	PKH-RK2HLTS451
5"	PKH-RK2HLTS501
5-1/2"	PKH-RK2HLTS551

* Excludes 10" and 12" Bore for Series H and 2H.

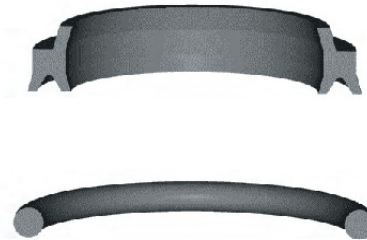
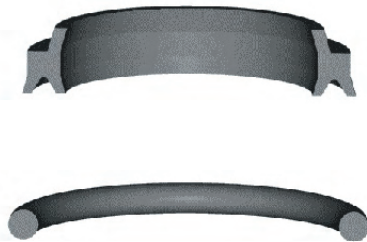
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Rod Kits

2MA Air Cylinders

Nitrile

Fluorocarbon



1/2" - 1-3/4"
Kit Includes:
 1 XNBR Wiper/Seal
 1 NBR O-ring
 1 Tube Seal Lubricant

1/2" - 1-3/4"
Kit Includes:
 1 FC Wiper/Seal
 1 FC O-ring
 1 Tube Seal Lubricant

Rod Dia.	Kit #	Kit #
1/2"	PKH-RK02MA0051	PKH-RK02MA0055
5/8"	PKH-RK02MA0061	PKH-RK02MA0065
1"	PKH-RK02MA0101	PKH-RK02MA0105
1-3/8"	PKH-RK02MA0131	PKH-RK02MA0135
1-3/4"	PKH-RK02MA0171	PKH-RK02MA0175

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Rod Kits

2ML Hydraulic Cylinders Urethane



Rod Dia.	Kit #
5/8"	PKH-RK02ML0061
1"	PKH-RK02ML0101
1-3/8"	PKH-RK02ML0131
1-3/4"	PKH-RK02ML0171

1/2" - 5-1/2"

Kit Includes:

- 1 XNBR Wiper / Seal
- 1 Multi-lip Urethane U-seal
- 1 NBR O-ring

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Rod Kits

HMI Cylinders

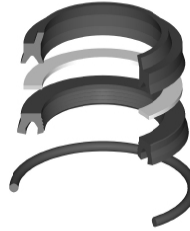
Urethane



Kit Includes:
 1 URE Wiper
 1 URE Multi-lip U-seal
 1 NBR O-ring

Fluorocarbon

12 - 70mm



90 - 140mm



Kit Includes:
 1 FC Wiper
 1 PTFE Back-up Ring*
 1 FC Multi-lip U-seal*
 1 FC O-ring

Rod Dia.	Kit #	Kit #
12 mm	PKH-RK2HM0121	PKH-RK2HM0125
14 mm	PKH-RK2HM0141	PKH-RK2HM0145
18 mm	PKH-RK2HM0181	PKH-RK2HM0185
22 mm	PKH-RK2HM0221	PKH-RK2HM0225
28 mm	PKH-RK2HM0281	PKH-RK2HM0285
36 mm	PKH-RK2HM0361	PKH-RK2HM0365
45 mm	PKH-RK2HM0451	PKH-RK2HM0455
56 mm	PKH-RK2HM0561	PKH-RK2HM0565
70 mm	PKH-RK2HM0701	PKH-RK2HM0705
90 mm	PKH-RK2HM0901	PKH-RK2HM0905
110 mm	PKH-RK2HM1101	PKH-RK2HM1105
140 mm	PKH-RK2HM1401	PKH-RK2HM1405

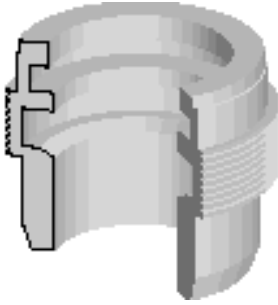
* 90, 110, & 140mm Fluorocarbon kits use (1) FC Single Lip Rod U-seal w/ a Bronze/PTFE ID back-up ring



PARKER

Bronze Rod Glands

A, 2A, H, 2H, VH, L, 2L, & 3L Air and Hydraulic Cylinders

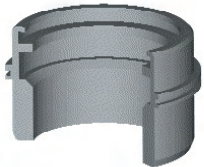


Rod Dia.	Part #
1/2"	PKH-RG-05
5/8"	PKH-RG-06
1"	PKH-RG-10
1-3/8"	PKH-RG-13
1-3/4"	PKH-RG-17
2"	PKH-RG-20
2-1/2"	PKH-RG-25
3"	PKH-RG-30
3-1/2"	PKH-RG-35
4"	PKH-RG-40
4-1/2"	PKH-RG-45
5"	PKH-RG-50
5-1/2"	PKH-RG-55

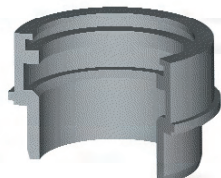
PARKER

MA Air Cylinders

5/8" Rod Gland profile



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



Rod Dia.	Part #
5/8"	PKH-RGMA-06
1"	PKH-RGMA-10
1-3/8"	PKH-RGMA-13

2MA Air Cylinders

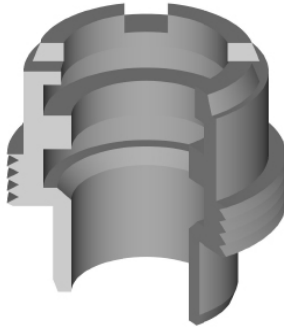


Rod Dia.	Part #
1/2"	PKH-RG02MA-05
5/8"	PKH-RG02MA-06
1"	PKH-RG02MA-10
1-3/8"	PKH-RG02MA-13
1-3/4"	PKH-RG02MA-17

PARKER

Bronze Rod Glands

HMI Hydraulic Cylinders

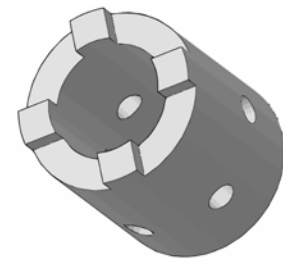
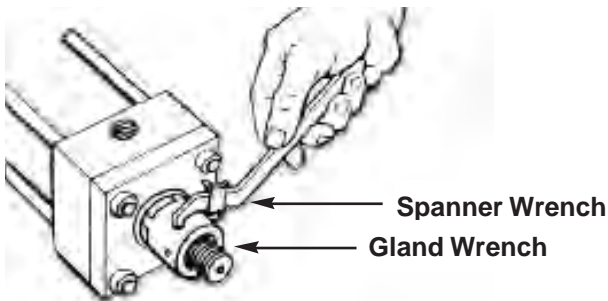


Rod Dia.	Part #
12 mm	PKH-RGHM-012
14 mm	PKH-RGHM-014
18 mm	PKH-RGHM-018
22 mm	PKH-RGHM-022
28 mm	PKH-RGHM-028
36 mm	PKH-RGHM-036
45 mm	PKH-RGHM-045
56 mm	PKH-RGHM-056
70 mm	PKH-RGHM-070

PARKER

Gland Wrenches

Parker Gland Wrenches



Rod Dia.	Kit #	ID X OD X HT
1/2", 5/8", 12mm & 14mm	PKH-069590	11/16" X 1-1/8" X 1-3/8"
18mm	PKH-084765	13/16" X 1-1/4" X 1-7/16"
1" & 22mm	PKH-069591	1-1/16" X 1-5/8" X 1-1/2"
28mm	PKH-084766	1-1/4" X 1-11/16" X 9/16"
1-3/8" & 36mm	PKH-069592	1-7/16" X 1-7/8" X 1-5/8"
1-3/4" & 45mm	PKH-069593	1-13/16" X 2-1/4" X 1-5/8"
2"	PKH-069594	2-1/16" X 2-1/2" X 2"
2-1/2" & 56mm	PKH-069595	2-9/16" X 3" X 2-1/8"
70mm	PKH-069596	2-15/16" X 3-1/2" X 2-3/8"

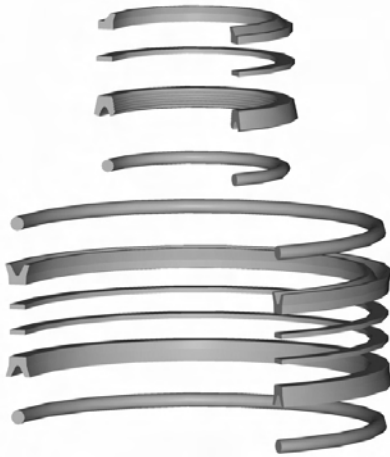


PARKER

Rod & Piston Seal Kits

MA Air Cylinders

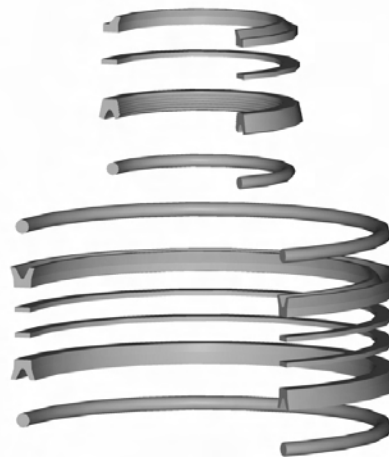
Nitrile



Kit Includes:

- 1 URE Wiper
- 1 PTFE Back-up Ring
- 1 NBR Multi-lip U-seal
- 2 NBR U-seals
- 2 URE Back-up Rings
- 3 NBR O-rings

Fluorocarbon



Kit Includes:

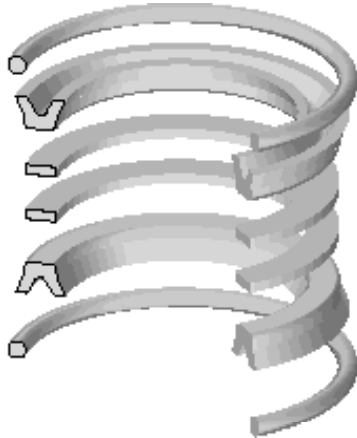
- 1 FC Wiper
- 1 FC Multi-lip U-seal
- 2 FC U-seals
- 3 PTFE Back-up Ring
- 3 FC O-rings

Rod Dia.	Bore Dia.	(NBR) Kit #	(FC) Kit #
5/8"	1-1/2"	PKH-SKL7000MA1	PKH-SKL7000MA5
5/8"	2"	PKH-SKL7001MA1	PKH-SKL7001MA5
1"	2"	PKH-SKL7002MA1	PKH-SKL7002MA5
5/8"	2-1/2"	PKH-SKL7003MA1	PKH-SKL7003MA5
1"	2-1/2"	PKH-SKL7004MA1	PKH-SKL7004MA5
1"	3-1/4"	PKH-SKL7005MA1	PKH-SKL7005MA5
1-3/8"	3-1/4"	PKH-SKL7006MA1	PKH-SKL7006MA5
1"	4"	PKH-SKL7007MA1	PKH-SKL7007MA5
1-3/8"	4"	PKH-SKL7008MA1	PKH-SKL7008MA5
1"	5"	PKH-SKL7009MA1	PKH-SKL7009MA5
1-3/8"	5"	PKH-SKL7010MA1	PKH-SKL7010MA5
1-3/8"	6"	PKH-SKL7098MA1	PKH-SKL7098MA5

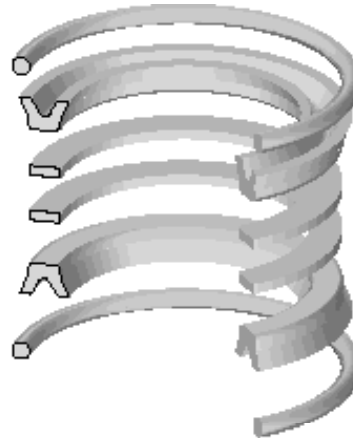
PARKER

Piston Kits

HL, 2HL, L, LL, 2LL, & 3LL Hydraulic Cylinders	HL, 2HL, L, LL, 2LL, & 3LL Hydraulic Cylinders
Nitrile	Fluorocarbon



Kit Includes:
 2 NBR U-seals
 2 NBR O-ring Head Seals
 2 URE Back-up Rings



Kit Includes:
 2 FC U-seals
 2 FC O-ring Head Seals
 2 PTFE Back-up Rings

Bore Dia.	(NBR) Kit #	(FC) Kit #
1"	PKH-PK102HLL01	PKH-PK102HLL05
1-1/2"	PKH-PK152HLL01	PKH-PK152HLL05
2"	PKH-PK152HLL01	PKH-PK202HLL05
2-1/2"	PKH-PK252HLL01	PKH-PK252HLL05
3-1/4"	PKH-PK322HLL01	PKH-PK322HLL05
4"	PKH-PK402HLL01	PKH-PK402HLL05
5"	PKH-PK502HLL01	PKH-PK502HLL05
6"	PKH-PK602HLL01	PKH-PK602HLL05
7"	PKH-PK702HLL01	PKH-PK702HLL05
8"	PKH-PK802HLL01	PKH-PK802HLL05
10"	PKH-PK902HLL01	PKH-PK902HLL05
12"	PKH-PK922HLL01	PKH-PK922HLL05



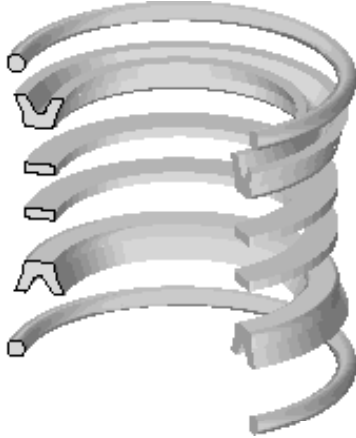


PARKER

Piston Kits

1A & 2A Air Cylinders

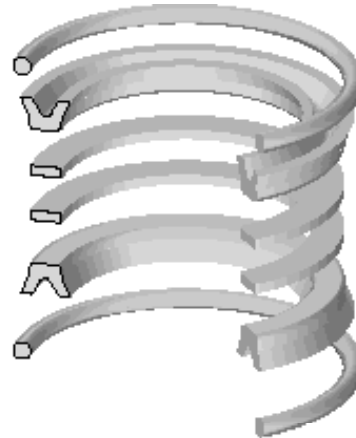
Nitrile



Kit Includes:

2 NBR O-ring Head Seals
2 NBR U-seals
2 URE Back-up Rings

Fluorocarbon



Kit Includes:

2 FC O-ring Head Seals
2 FC U-seals
2 PTFE Back-up Rings

Bore Dia.	(NBR) Kit #	(FC) Kit #
1"	PKH-PK1002A001	PKH-PK1002A005
1-1/2"	PKH-PK1502A001	PKH-PK1502A005
2"	PKH-PK2002A001	PKH-PK2002A005
2-1/2"	PKH-PK2502A001	PKH-PK2502A005
3-1/4"	PKH-PK3202A001	PKH-PK3202A005
4"	PKH-PK4002A001	PKH-PK4002A005
5"	PKH-PK5002A001	PKH-PK5002A005
6"	PKH-PK6002A001	PKH-PK6002A005
7"	PKH-PK7002A001	PKH-PK7002A005
8"	PKH-PK8002A001	PKH-PK8002A005
10"	PKH-PK9002A001	PKH-PK9002A005
12"	PKH-PK9202A001	PKH-PK9202A005
14"	PKH-PK9402A001	PKH-PK9402A005

PARKER

Piston Kits

2MA Cylinders

Nitrile



- Kit Includes:**
 2 NBR O-ring Head Seals
 2 NBR U-seals
 2 URE Back-up Rings
 1 Nylon Wear Ring
 1 Tube Seal Lubricant

Fluorocarbon



- Kit Includes:**
 2 FC O-ring Head Seals
 2 FC U-seals
 2 PTFE Back-up Rings
 1 Nylon Wear Ring
 1 Tube Seal Lubricant

Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	PKH-PK1502MA01	PKH-PK1502MA05
2"	PKH-PK2002MA01	PKH-PK2002MA05
2-1/2"	PKH-PK2502MA01	PKH-PK2502MA05
3-1/4"	PKH-PK3202MA01	PKH-PK3202MA05
4"	PKH-PK4002MA01	PKH-PK4002MA05
5"	PKH-PK5002MA01	PKH-PK5002MA05
6"	PKH-PK6002MA01	PKH-PK6002MA05
8"	PKH-PK8002MA01	PKH-PK8002MA05

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Piston Kits

2ML Cylinders
Nitrile



Kit Includes:

- 2 NBR O-ring Head Seals
- 2 NBR U-seals
- 2 URE Back-up Rings
- 1 Nylon Wear Ring

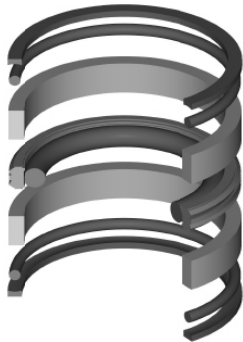
Rod Dia.	Kit #
1-1/2"	PKH-PK1502ML01
2"	PKH-PK2002ML01
2-1/2"	PKH-PK2502ML01
3-1/4"	PKH-PK3202ML01
4"	PKH-PK4002ML01
5"	PKH-PK5002ML01
6"	PKH-PK6002ML01
8"	PKH-PK8002ML01

PARKER

Piston Kits

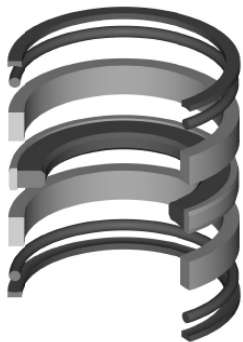
HMI Cylinders

Nitrile



- Kit Includes:**
 2 NBR Back-up Rings*
 2 NBR O-ring Head Seals
 2 Polyacetal Wear Rings
 1 URE Piston Ring
 w/ 1 NBR Expander

Fluorocarbon



- Kit Includes:**
 2 FC Back-up Rings*
 2 FC O-ring Head Seals
 2 Phenolic Wear Rings
 1 Step-cut Nylon Piston Ring
 w/ 1 FC Expander

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Bore Dia.	(NBR) Kit #	(FC) Kit #
25 mm	PKH-PN025HM001	—
32 mm	PKH-PN032HM001	PKH-PN032HM005
40 mm	PKH-PN040HM001	PKH-PN040HM005
50 mm	PKH-PN050HM001	PKH-PN050HM005
63 mm	PKH-PN063HM001	PKH-PN063HM005
80 mm	PKH-PN080HM001	PKH-PN080HM005
100 mm	PKH-PN100HM001	PKH-PN100HM005
125 mm	PKH-PN125HM001	PKH-PN125HM005
160 mm	PKH-PN160HM001	PKH-PN160HM005
200 mm	PKH-PN200HM001	PKH-PN200HM005

* Back-up Rings used only in 63mm and larger Piston Kits.



PARKER

Piston Kits

Poly Pack kits for L, 2L, 3L, H, 2H, HD, & VH Cylinders

Urethane

Fluorocarbon



Kit Includes:

- 2 NBR O-ring Head Seals
- 2 NBR Loaded Urethane U-seals
- 2 PTFE Head Seals (1" Bore Only)



Kit Includes:

- 2 FC O-ring Head Seals
- 2 FC Loaded U-seals

Bore Dia.	(NBR) Kit #	(FC) Kit #
1"	PKH-PK102HLLP1	—
1-1/2"	PKH-PK152HLLP1	PKH-PK152HLLP5
2"	PKH-PK202HLLP1	PKH-PK202HLLP5
2-1/2"	PKH-PK252HLLP1	PKH-PK252HLLP5
3-1/4"	PKH-PK322HLLP1	PKH-PK322HLLP5
4"	PKH-PK402HLLP1	PKH-PK402HLLP5
5"	PKH-PK502HLLP1	PKH-PK502HLLP5
6" *	PKH-PK602HLLP1	PKH-PK602HLLP5
6" **	PKH-PK602HLLP1-OLD	PKH-PK602HLLP5-OLD
8"	PKH-PK802HLLP1	PKH-PK802HLLP5

Note: These kits are used in the lipseal type piston for the models shown above.

* These 6" kits are for the current standard piston, Jan. 1992-current. U-seal cross section of .28".

** These 6" kits are for the pre-1992 reworked piston. U-seal cross section of 5/16".

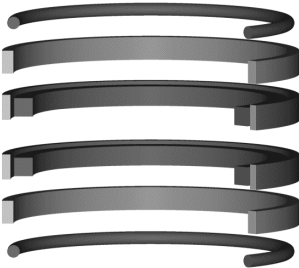
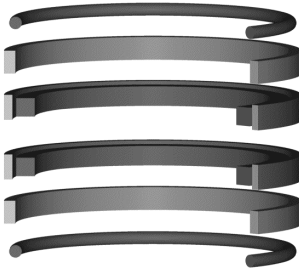
PARKER

Piston Kits

High Load Kits for 2H, VH & HD

Nitrile

Fluorocarbon



Kit Includes:
 2 NBR O-ring Head Seals
 2 Nylon Wear Rings
 2 Bronze filled PTFE Piston Rings
 w/ 2 NBR Expanders

Kit Includes:
 2 FC O-ring Head Seals
 2 Nylon Wear Rings
 2 Bronze filled PTFE Piston Rings
 w/ 2 FC Expanders

Bore Dia.	Kit #	Kit #
1-1/2"	PKH-PK152HK001	PKH-PK152HK005
2"	PKH-PK202HK001	PKH-PK202HK005
2-1/2"	PKH-PK252HK001	PKH-PK252HK005
3-1/4"	PKH-PK322HK001	PKH-PK322HK005
4"	PKH-PK402HK001	PKH-PK402HK005
5"	PKH-PK502HK001	PKH-PK502HK005
6"	PKH-PK602HK001	PKH-PK602HK005
7"	PKH-PK702HK001	PKH-PK702HK005
8"	PKH-PK802HK001	PKH-PK802HK005
10"	PKH-PK902HK001	PKH-PK902HK005
12"	PKH-PK922HK001	PKH-PK922HK005

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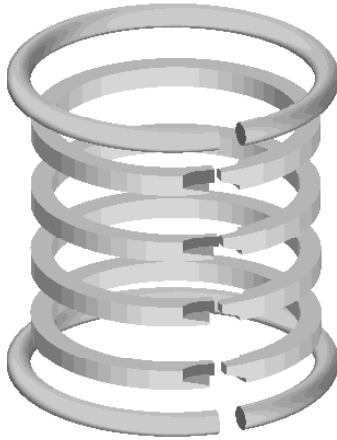
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Piston Ring Kits

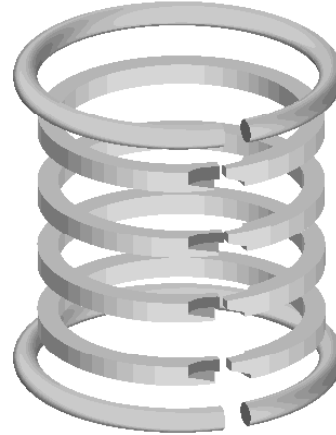
H, 2H, L, 2L, & 3L Hydraulic Cylinders

Nitrile

Fluorocarbon



Kit Includes:
 2 NBR O-ring Head Seals
 4 Cast Iron Piston Rings
 2 PTFE Head Seals (1" Bore Only)



Kit Includes:
 2 FC O-ring Head Seals
 4 Cast Iron Piston Rings
 2 PTFE Head Seals (1" Bore Only)

Bore Dia.	(NBR) Kit #	(FC) Kit #
1"	PKH-PR102H0001	PKH-PR102H0005
1-1/2"	PKH-PR152H0001	PKH-PR152H0005
2"	PKH-PR202H0001	PKH-PR202H0005
2-1/2"	PKH-PR252H0001	PKH-PR252H0005
3-1/4"	PKH-PR322H0001	PKH-PR322H0005
4"	PKH-PR402H0001	PKH-PR402H0005
5"	PKH-PR502H0001	PKH-PR502H0005
6"	PKH-PR602H0001	PKH-PR602H0005
7"	PKH-PR702H0001	PKH-PR702H0005
8"	PKH-PR802H0001	PKH-PR802H0005
10"	PKH-PR902H0001	PKH-PR902H0005
12"	PKH-PR922H0001	PKH-PR922H0005

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Piston Head Seal Kits

Nitrile	Fluorocarbon
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Kit Includes:
2 NBR O-ring Head Seals



Kit Includes:
2 FC O-ring Head Seals

2A, 2H, 3L, & VH Cylinders

Bore Dia.	(NBR) Kit #	(FC) Kit #
1"	PKH-CB102HL001	PKH-CB102HL005
1-1/2"	PKH-CB152HL001	PKH-CB152HL005
2"	PKH-CB202HL001	PKH-CB202HL005
2-1/2"	PKH-CB252HL001	PKH-CB252HL005
3-1/4"	PKH-CB322HL001	PKH-CB322HL005
4"	PKH-CB402HL001	PKH-CB402HL005
5"	PKH-CB502HL001	PKH-CB502HL005
6"	PKH-CB602HL001	PKH-CB602HL005
7"	PKH-CB702HL001	PKH-CB702HL005
8"	PKH-CB802HL001	PKH-CB802HL005
10"	PKH-CB902HL001	PKH-CB902HL005

2MA & ML Cylinders	2MA Cylinders Only
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Bore Dia.	(NBR) Kit #	(FC) Kit #
1-1/2"	PKH-CB1502MA01	PKH-CB1502MA05
2"	PKH-CB2002MA01	PKH-CB2002MA05
2-1/2"	PKH-CB2502MA01	PKH-CB2502MA05
3-1/4"	PKH-CB3202MA01	PKH-CB3202MA05
4"	PKH-CB4002MA01	PKH-CB4002MA05
5"	PKH-CB5002MA01	PKH-CB5002MA05
6"	PKH-CB6002MA01	PKH-CB6002MA05
8"	PKH-CB8002MA01	PKH-CB8002MA05

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Piston Head Seal Kits

HMI Hydraulic Cylinders

Nitrile



Kit Includes:
2 NBR Back-up Rings*
2 NBR O-ring Head Seals

Fluorocarbon



Kit Includes:
2 FC Back-up Rings*
2 FC O-ring Head Seals

Bore Dia.	(NBR) Kit #	(FC) Kit #
25 mm	PKH-CB025HM001	PKH-CB025HM005
32 mm	PKH-CB032HM001	PKH-CB032HM005
40 mm	PKH-CB040HM001	PKH-CB040HM005
50 mm	PKH-CB050HM001	PKH-CB050HM005
63 mm	PKH-CB063HM001	PKH-CB063HM005
80 mm	PKH-CB080HM001	PKH-CB080HM005
100 mm	PKH-CB100HM001	PKH-CB100HM005
125 mm	PKH-CB125HM001	PKH-CB125HM005
160 mm	PKH-CB160HM001	PKH-CB160HM005
200 mm	PKH-CB200HM001	PKH-CB200HM005

* Back-up rings used only in 63mm and larger piston kits.

Various Kits

Kit #	Series	Code	Rod x Bore
PKH-KT060VP101	VP	I-N-2	1" X 6"
PKH-KT070VP101	VP	I-N-2	1" X 7"
PKH-KT080VP101	VP	I-N-2	1" X 8"
PKH-KT100VP101	VP	I-N-2	1" X 10"

Kit Includes:
1 XNBR H Style Wiper
2 NBR O-rings
1 NBR Quad Ring



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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-069590	Gland Wrench	1/2, 5/8, 12mm, 14mm		11/16 x 1-1/8 x 1-3/8
PKH-069591	Gland Wrench	1, 22mm		1-1/16 x 1-5/8 x 1-1/2
PKH-069592	Gland Wrench	1-3/8, 36mm		1-7/16 x 1-7/8 x 1-5/8
PKH-069593	Gland Wrench	1-3/4, 45mm		1-13/16 x 2-1/4 x 1-5/8
PKH-069594	Gland Wrench	2		2-1/16 x 2-1/2 x 2
PKH-069595	Gland Wrench	2-1/2, 56mm		2-9/16 x 3 x 2-1/8
PKH-069596	Gland Wrench	70mm		2-15/16 x 3-1/2 x 2-3/8
PKH-084765	Gland Wrench	18mm		13/16 x 1-1/4 x 1-7/16
PKH-084766	Gland Wrench	28mm		1-1/4 x 1-11/16 x 9/16
PKH-CB025HM001	Piston Head Seal Kit		25 mm	
PKH-CB025HM005	Piston Head Seal Kit		25 mm	
PKH-CB032HM001	Piston Head Seal Kit		32 mm	
PKH-CB032HM005	Piston Head Seal Kit		32 mm	
PKH-CB040HM001	Piston Head Seal Kit		40 mm	
PKH-CB040HM005	Piston Head Seal Kit		40 mm	
PKH-CB050HM001	Piston Head Seal Kit		50 mm	
PKH-CB050HM005	Piston Head Seal Kit		50 mm	
PKH-CB063HM001	Piston Head Seal Kit		63 mm	
PKH-CB063HM005	Piston Head Seal Kit		63 mm	
PKH-CB080HM001	Piston Head Seal Kit		80 mm	
PKH-CB080HM005	Piston Head Seal Kit		80 mm	
PKH-CB100HM001	Piston Head Seal Kit		100 mm	
PKH-CB100HM005	Piston Head Seal Kit		100 mm	
PKH-CB102HL001	Piston Head Seal Kit		1	
PKH-CB102HL005	Piston Head Seal Kit		1	
PKH-CB125HM001	Piston Head Seal Kit		125 mm	
PKH-CB125HM005	Piston Head Seal Kit		125 mm	
PKH-CB1502MA01	Piston Head Seal Kit		1-1/2	
PKH-CB1502MA05	Piston Head Seal Kit		1-1/2	
PKH-CB152HL001	Piston Head Seal Kit		1-1/2	
PKH-CB152HL005	Piston Head Seal Kit		1-1/2	
PKH-CB160HM001	Piston Head Seal Kit		160 mm	
PKH-CB160HM005	Piston Head Seal Kit		160 mm	
PKH-CB2002MA01	Piston Head Seal Kit		2	
PKH-CB2002MA05	Piston Head Seal Kit		2	
PKH-CB200HM001	Piston Head Seal Kit		200 mm	
PKH-CB200HM005	Piston Head Seal Kit		200 mm	
PKH-CB202HL001	Piston Head Seal Kit		2	
PKH-CB202HL005	Piston Head Seal Kit		2	
PKH-CB2502MA01	Piston Head Seal Kit		2-1/2	
PKH-CB2502MA05	Piston Head Seal Kit		2-1/2	
PKH-CB252HL001	Piston Head Seal Kit		2-1/2	
PKH-CB252HL005	Piston Head Seal Kit		2-1/2	
PKH-CB3202MA01	Piston Head Seal Kit		3-1/4	
PKH-CB3202MA05	Piston Head Seal Kit		3-1/4	
PKH-CB322HL001	Piston Head Seal Kit		3-1/4	
PKH-CB322HL005	Piston Head Seal Kit		3-1/4	
PKH-CB4002MA01	Piston Head Seal Kit		4	
PKH-CB4002MA05	Piston Head Seal Kit		4	
PKH-CB402HL001	Piston Head Seal Kit		4	



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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-CB402HL005	Piston Head Seal Kit		4	
PKH-CB5002MA01	Piston Head Seal Kit		5	
PKH-CB5002MA05	Piston Head Seal Kit		5	
PKH-CB502HL001	Piston Head Seal Kit		5	
PKH-CB502HL005	Piston Head Seal Kit		5	
PKH-CB6002MA01	Piston Head Seal Kit		6	
PKH-CB6002MA05	Piston Head Seal Kit		6	
PKH-CB602HL001	Piston Head Seal Kit		6	
PKH-CB602HL005	Piston Head Seal Kit		6	
PKH-CB702HL001	Piston Head Seal Kit		7	
PKH-CB702HL005	Piston Head Seal Kit		7	
PKH-CB8002MA01	Piston Head Seal Kit		8	
PKH-CB8002MA05	Piston Head Seal Kit		8	
PKH-CB802HL001	Piston Head Seal Kit		8	
PKH-CB802HL005	Piston Head Seal Kit		8	
PKH-CB902HL001	Piston Head Seal Kit		9	
PKH-CB902HL005	Piston Head Seal Kit		9	
PKH-KT060VP101	Rod & Piston Seal Kit	1	6	
PKH-KT070VP101	Rod & Piston Seal Kit	1	7	
PKH-KT080VP101	Rod & Piston Seal Kit	1	8	
PKH-KT100VP101	Rod & Piston Seal Kit	1	10	
PKH-PK1002A001	Piston Kit		1	
PKH-PK1002A005	Piston Kit		1	
PKH-PK102HLL01	Piston Kit		1	
PKH-PK102HLL05	Piston Kit		1	
PKH-PK102HLLP1	Piston Kit		1	
PKH-PK1502A001	Piston Kit		1-1/2	
PKH-PK1502A005	Piston Kit		1-1/2	
PKH-PK1502MA01	Piston Kit		1-1/2	
PKH-PK1502MA05	Piston Kit		1-1/2	
PKH-PK1502ML01	Piston Kit		1-1/2	
PKH-PK152HK001	Piston Kit		1-1/2	
PKH-PK152HK005	Piston Kit		1-1/2	
PKH-PK152HLL01	Piston Kit		1-1/2	
PKH-PK152HLL05	Piston Kit		1-1/2	
PKH-PK152HLLP1	Piston Kit		1-1/2	
PKH-PK152HLLP5	Piston Kit		1-1/2	
PKH-PK2002A001	Piston Kit		2	
PKH-PK2002A005	Piston Kit		2	
PKH-PK2002MA01	Piston Kit		2	
PKH-PK2002MA05	Piston Kit		2	
PKH-PK2002ML01	Piston Kit		2	
PKH-PK202HK001	Piston Kit		2	
PKH-PK202HK005	Piston Kit		2	
PKH-PK202HLL01	Piston Kit		2	
PKH-PK202HLL05	Piston Kit		2	
PKH-PK202HLLP1	Piston Kit		2	
PKH-PK202HLLP5	Piston Kit		2	
PKH-PK2502A001	Piston Kit		2-1/2	
PKH-PK2502A005	Piston Kit		2-1/2	



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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-PK2502MA01	Piston Kit		2-1/2	
PKH-PK2502MA05	Piston Kit		2-1/2	
PKH-PK2502ML01	Piston Kit		2-1/2	
PKH-PK252HK001	Piston Kit		2-1/2	
PKH-PK252HK005	Piston Kit		2-1/2	
PKH-PK252HLL01	Piston Kit		2-1/2	
PKH-PK252HLL05	Piston Kit		2-1/2	
PKH-PK252HLLP1	Piston Kit		2-1/2	
PKH-PK252HLLP5	Piston Kit		2-1/2	
PKH-PK3202A001	Piston Kit		3-1/4	
PKH-PK3202A005	Piston Kit		3-1/4	
PKH-PK3202MA01	Piston Kit		3-1/4	
PKH-PK3202MA05	Piston Kit		3-1/4	
PKH-PK3202ML01	Piston Kit		3-1/4	
PKH-PK322HK001	Piston Kit		3-1/4	
PKH-PK322HK005	Piston Kit		3-1/4	
PKH-PK322HLL01	Piston Kit		3-1/4	
PKH-PK322HLL05	Piston Kit		3-1/4	
PKH-PK322HLLP1	Piston Kit		3-1/4	
PKH-PK322HLLP5	Piston Kit		3-1/4	
PKH-PK4002A001	Piston Kit		4	
PKH-PK4002A005	Piston Kit		4	
PKH-PK4002MA01	Piston Kit		4	
PKH-PK4002MA05	Piston Kit		4	
PKH-PK4002ML01	Piston Kit		4	
PKH-PK402HK001	Piston Kit		4	
PKH-PK402HK005	Piston Kit		4	
PKH-PK402HLL01	Piston Kit		4	
PKH-PK402HLL05	Piston Kit		4	
PKH-PK402HLLP1	Piston Kit		4	
PKH-PK402HLLP5	Piston Kit		4	
PKH-PK5002A001	Piston Kit		5	
PKH-PK5002A005	Piston Kit		5	
PKH-PK5002MA01	Piston Kit		5	
PKH-PK5002MA05	Piston Kit		5	
PKH-PK5002ML01	Piston Kit		5	
PKH-PK502HK001	Piston Kit		5	
PKH-PK502HK005	Piston Kit		5	
PKH-PK502HLL01	Piston Kit		5	
PKH-PK502HLL05	Piston Kit		5	
PKH-PK502HLLP1	Piston Kit		5	
PKH-PK502HLLP5	Piston Kit		5	
PKH-PK6002A001	Piston Kit		6	
PKH-PK6002A005	Piston Kit		6	
PKH-PK6002MA01	Piston Kit		6	
PKH-PK6002MA05	Piston Kit		6	
PKH-PK6002ML01	Piston Kit		6	
PKH-PK602HK001	Piston Kit		6	
PKH-PK602HK005	Piston Kit		6	
PKH-PK602HLL01	Piston Kit		6	



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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-PK602HLL05	Piston Kit		6	
PKH-PK602HLLP1	Piston Kit		6	
PKH-PK602HLLP1-OLD	Piston Kit		6	
PKH-PK602HLLP5	Piston Kit		6	
PKH-PK602HLLP5-OLD	Piston Kit		6	
PKH-PK7002A001	Piston Kit		7	
PKH-PK7002A005	Piston Kit		7	
PKH-PK702HK001	Piston Kit		7	
PKH-PK702HK005	Piston Kit		7	
PKH-PK702HLL01	Piston Kit		7	
PKH-PK702HLL05	Piston Kit		7	
PKH-PK8002A001	Piston Kit		8	
PKH-PK8002A005	Piston Kit		8	
PKH-PK8002MA01	Piston Kit		8	
PKH-PK8002MA05	Piston Kit		8	
PKH-PK8002ML01	Piston Kit		8	
PKH-PK802HK001	Piston Kit		8	
PKH-PK802HK005	Piston Kit		8	
PKH-PK802HLL01	Piston Kit		8	
PKH-PK802HLL05	Piston Kit		8	
PKH-PK802HLLP1	Piston Kit		8	
PKH-PK802HLLP5	Piston Kit		8	
PKH-PK9002A001	Piston Kit		10	
PKH-PK9002A005	Piston Kit		10	
PKH-PK902HK001	Piston Kit		10	
PKH-PK902HK005	Piston Kit		10	
PKH-PK902HLL01	Piston Kit		10	
PKH-PK902HLL05	Piston Kit		10	
PKH-PK9202A001	Piston Kit		12	
PKH-PK9202A005	Piston Kit		12	
PKH-PK922HK001	Piston Kit		12	
PKH-PK922HK005	Piston Kit		12	
PKH-PK922HLL01	Piston Kit		12	
PKH-PK922HLL05	Piston Kit		12	
PKH-PK9402A001	Piston Kit		14	
PKH-PK9402A005	Piston Kit		14	
PKH-PN025HM001	Piston Kit		25 mm	
PKH-PN025HM005	Piston Kit		25 mm	
PKH-PN032HM001	Piston Kit		32 mm	
PKH-PN032HM005	Piston Kit		32 mm	
PKH-PN040HM001	Piston Kit		40 mm	
PKH-PN040HM005	Piston Kit		40 mm	
PKH-PN050HM001	Piston Kit		50 mm	
PKH-PN050HM005	Piston Kit		50 mm	
PKH-PN063HM001	Piston Kit		63 mm	
PKH-PN063HM005	Piston Kit		63 mm	
PKH-PN080HM001	Piston Kit		80 mm	
PKH-PN080HM005	Piston Kit		80 mm	
PKH-PN100HM001	Piston Kit		100 mm	
PKH-PN100HM005	Piston Kit		100 mm	



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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-PN125HM001	Piston Kit		125 mm	
PKH-PN125HM005	Piston Kit		125 mm	
PKH-PN160HM001	Piston Kit		160 mm	
PKH-PN160HM005	Piston Kit		160 mm	
PKH-PN200HM001	Piston Kit		200 mm	
PKH-PN200HM005	Piston Kit		200 mm	
PKH-PR102H0001	Piston Ring Kit		1	
PKH-PR102H0005	Piston Ring Kit		1	
PKH-PR152H0001	Piston Ring Kit		1-1/2	
PKH-PR152H0005	Piston Ring Kit		1-1/2	
PKH-PR202H0001	Piston Ring Kit		2	
PKH-PR202H0005	Piston Ring Kit		2	
PKH-PR252H0001	Piston Ring Kit		2-1/2	
PKH-PR252H0005	Piston Ring Kit		2-1/2	
PKH-PR322H0001	Piston Ring Kit		3-1/4	
PKH-PR322H0005	Piston Ring Kit		3-1/4	
PKH-PR402H0001	Piston Ring Kit		4	
PKH-PR402H0005	Piston Ring Kit		4	
PKH-PR502H0001	Piston Ring Kit		5	
PKH-PR502H0005	Piston Ring Kit		5	
PKH-PR602H0001	Piston Ring Kit		6	
PKH-PR602H0005	Piston Ring Kit		6	
PKH-PR702H0001	Piston Ring Kit		7	
PKH-PR702H0005	Piston Ring Kit		7	
PKH-PR802H0001	Piston Ring Kit		8	
PKH-PR802H0005	Piston Ring Kit		8	
PKH-PR902H0001	Piston Ring Kit		10	
PKH-PR902H0005	Piston Ring Kit		10	
PKH-PR922H0001	Piston Ring Kit		12	
PKH-PR922H0005	Piston Ring Kit		12	
PKH-RG02MA0051	Rod Gland Kit	1/2		
PKH-RG02MA0055	Rod Gland Kit	1/2		
PKH-RG02MA0061	Rod Gland Kit	5/8		
PKH-RG02MA0065	Rod Gland Kit	5/8		
PKH-RG02MA0101	Rod Gland Kit	1		
PKH-RG02MA0105	Rod Gland Kit	1		
PKH-RG02MA0131	Rod Gland Kit	1-3/8		
PKH-RG02MA0135	Rod Gland Kit	1-3/8		
PKH-RG02MA0171	Rod Gland Kit	1-3/4		
PKH-RG02MA0175	Rod Gland Kit	1-3/4		
PKH-RG02MA-05	Rod Gland	1/2		
PKH-RG02MA-06	Rod Gland	5/8		
PKH-RG02MA-10	Rod Gland	1		
PKH-RG02MA-13	Rod Gland	1-3/8		
PKH-RG02MA-17	Rod Gland	1-3/4		
PKH-RG-05	Rod Gland	1/2		
PKH-RG-06	Rod Gland	5/8		
PKH-RG-10	Rod Gland	1		
PKH-RG-13	Rod Gland	1-3/8		
PKH-RG-17	Rod Gland	1-3/4		



PARKER

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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-RG-20	Rod Gland	2		
PKH-RG-25	Rod Gland	2-1/2		
PKH-RG2AHL0051	Rod Gland Kit	1/2		
PKH-RG2AHL0055	Rod Gland Kit	1/2		
PKH-RG2AHL0061	Rod Gland Kit	5/8		
PKH-RG2AHL0065	Rod Gland Kit	5/8		
PKH-RG2AHL0101	Rod Gland Kit	1		
PKH-RG2AHL0105	Rod Gland Kit	1		
PKH-RG2AHL0131	Rod Gland Kit	1-3/8		
PKH-RG2AHL0135	Rod Gland Kit	1-3/8		
PKH-RG2AHL0171	Rod Gland Kit	1-3/4		
PKH-RG2AHL0175	Rod Gland Kit	1-3/4		
PKH-RG2AHL0201	Rod Gland Kit	2		
PKH-RG2AHL0205	Rod Gland Kit	2		
PKH-RG2AHL0251	Rod Gland Kit	2-1/2		
PKH-RG2AHL0255	Rod Gland Kit	2-1/2		
PKH-RG2AHL0301	Rod Gland Kit	3		
PKH-RG2AHL0305	Rod Gland Kit	3		
PKH-RG2AHL0351	Rod Gland Kit	3-1/2		
PKH-RG2AHL0355	Rod Gland Kit	3-1/2		
PKH-RG2AHL0401	Rod Gland Kit	4		
PKH-RG2AHL0405	Rod Gland Kit	4		
PKH-RG2AHL0451	Rod Gland Kit	4-1/2		
PKH-RG2AHL0455	Rod Gland Kit	4-1/2		
PKH-RG2AHL0501	Rod Gland Kit	5		
PKH-RG2AHL0505	Rod Gland Kit	5		
PKH-RG2AHL0551	Rod Gland Kit	5-1/2		
PKH-RG2AHL0555	Rod Gland Kit	5-1/2		
PKH-RG2HLTS051	Rod Gland Kit	1/2		
PKH-RG2HLTS061	Rod Gland Kit	5/8		
PKH-RG2HLTS101	Rod Gland Kit	1		
PKH-RG2HLTS131	Rod Gland Kit	1-3/8		
PKH-RG2HLTS171	Rod Gland Kit	1-3/4		
PKH-RG2HLTS201	Rod Gland Kit	2		
PKH-RG2HLTS251	Rod Gland Kit	2-1/2		
PKH-RG2HLTS301	Rod Gland Kit	3		
PKH-RG2HLTS351	Rod Gland Kit	3-1/2		
PKH-RG2HLTS401	Rod Gland Kit	4		
PKH-RG2HLTS451	Rod Gland Kit	4-1/2		
PKH-RG2HLTS501	Rod Gland Kit	5		
PKH-RG2HLTS551	Rod Gland Kit	5-1/2		
PKH-RG2HM0121	Rod Gland Kit	12 mm		
PKH-RG2HM0125	Rod Gland Kit	12 mm		
PKH-RG2HM0141	Rod Gland Kit	14 mm		
PKH-RG2HM0145	Rod Gland Kit	14 mm		
PKH-RG2HM0181	Rod Gland Kit	18 mm		
PKH-RG2HM0185	Rod Gland Kit	18 mm		
PKH-RG2HM0221	Rod Gland Kit	22 mm		
PKH-RG2HM0225	Rod Gland Kit	22 mm		
PKH-RG2HM0281	Rod Gland Kit	28 mm		



PARKER

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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-RG2HM0285	Rod Gland Kit	28 mm		
PKH-RG2HM0361	Rod Gland Kit	36 mm		
PKH-RG2HM0365	Rod Gland Kit	36 mm		
PKH-RG2HM0451	Rod Gland Kit	45 mm		
PKH-RG2HM0455	Rod Gland Kit	45 mm		
PKH-RG2HM0561	Rod Gland Kit	56 mm		
PKH-RG2HM0565	Rod Gland Kit	56 mm		
PKH-RG2HM0701	Rod Gland Kit	70 mm		
PKH-RG2HM0705	Rod Gland Kit	70 mm		
PKH-RG-30	Rod Gland	3		
PKH-RG-35	Rod Gland	3-1/2		
PKH-RG-40	Rod Gland	4		
PKH-RG-45	Rod Gland	4-1/2		
PKH-RG-50	Rod Gland	5		
PKH-RG-55	Rod Gland	5-1/2		
PKH-RGHM-012	Rod Gland	12 mm		
PKH-RGHM-014	Rod Gland	14 mm		
PKH-RGHM-018	Rod Gland	18 mm		
PKH-RGHM-022	Rod Gland	22 mm		
PKH-RGHM-028	Rod Gland	28 mm		
PKH-RGHM-036	Rod Gland	36 mm		
PKH-RGHM-045	Rod Gland	45 mm		
PKH-RGHM-056	Rod Gland	56 mm		
PKH-RGHM-070	Rod Gland	70 mm		
PKH-RGL6948MA1	Rod Gland Kit	5/8		
PKH-RGL6948MA5	Rod Gland Kit	5/8		
PKH-RGL6949MA1	Rod Gland Kit	1		
PKH-RGL6949MA5	Rod Gland Kit	1		
PKH-RGL6950MA1	Rod Gland Kit	1-3/8		
PKH-RGL6950MA5	Rod Gland Kit	1-3/8		
PKH-RGMA-06	Rod Gland	5/8		
PKH-RGMA-10	Rod Gland	1		
PKH-RGMA-13	Rod Gland	1-3/8		
PKH-RK02MA0051	Rod Kit	1/2		
PKH-RK02MA0055	Rod Kit	1/2		
PKH-RK02MA0061	Rod Kit	5/8		
PKH-RK02MA0065	Rod Kit	5/8		
PKH-RK02MA0101	Rod Kit	1		
PKH-RK02MA0105	Rod Kit	1		
PKH-RK02MA0131	Rod Kit	1-3/8		
PKH-RK02MA0135	Rod Kit	1-3/8		
PKH-RK02MA0171	Rod Kit	1-3/4		
PKH-RK02MA0175	Rod Kit	1-3/4		
PKH-RK02ML0061	Rod Kit	5/8		
PKH-RK02ML0101	Rod Kit	1		
PKH-RK02ML0131	Rod Kit	1-3/8		
PKH-RK02ML0171	Rod Kit	1-3/4		
PKH-RK2AHL0051	Rod Kit	1/2		
PKH-RK2AHL0055	Rod Kit	1/2		
PKH-RK2AHL0061	Rod Kit	5/8		



PARKER

PARKER

Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-RK2AHL0065	Rod Kit	5/8		
PKH-RK2AHL0101	Rod Kit	1		
PKH-RK2AHL0105	Rod Kit	1		
PKH-RK2AHL0131	Rod Kit	1-3/8		
PKH-RK2AHL0135	Rod Kit	1-3/8		
PKH-RK2AHL0171	Rod Kit	1-3/4		
PKH-RK2AHL0175	Rod Kit	1-3/4		
PKH-RK2AHL0201	Rod Kit	2		
PKH-RK2AHL0205	Rod Kit	2		
PKH-RK2AHL0251	Rod Kit	2-1/2		
PKH-RK2AHL0255	Rod Kit	2-1/2		
PKH-RK2AHL0301	Rod Kit	3		
PKH-RK2AHL0305	Rod Kit	3		
PKH-RK2AHL0351	Rod Kit	3-1/2		
PKH-RK2AHL0355	Rod Kit	3-1/2		
PKH-RK2AHL0401	Rod Kit	4		
PKH-RK2AHL0405	Rod Kit	4		
PKH-RK2AHL0451	Rod Kit	4-1/2		
PKH-RK2AHL0455	Rod Kit	4-1/2		
PKH-RK2AHL0501	Rod Kit	5		
PKH-RK2AHL0505	Rod Kit	5		
PKH-RK2AHL0551	Rod Kit	5-1/2		
PKH-RK2AHL0555	Rod Kit	5-1/2		
PKH-RK2HLTS051	Rod Kit	1/2		
PKH-RK2HLTS061	Rod Kit	5/8		
PKH-RK2HLTS101	Rod Kit	1		
PKH-RK2HLTS131	Rod Kit	1-3/8		
PKH-RK2HLTS171	Rod Kit	1-3/4		
PKH-RK2HLTS201	Rod Kit	2		
PKH-RK2HLTS251	Rod Kit	2-1/2		
PKH-RK2HLTS301	Rod Kit	3		
PKH-RK2HLTS351	Rod Kit	3-1/2		
PKH-RK2HLTS401	Rod Kit	4		
PKH-RK2HLTS451	Rod Kit	4-1/2		
PKH-RK2HLTS501	Rod Kit	5		
PKH-RK2HLTS551	Rod Kit	5-1/2		
PKH-RK2HM0121	Rod Kit	12 mm		
PKH-RK2HM0125	Rod Kit	12 mm		
PKH-RK2HM0141	Rod Kit	14 mm		
PKH-RK2HM0145	Rod Kit	14 mm		
PKH-RK2HM0181	Rod Kit	18 mm		
PKH-RK2HM0185	Rod Kit	18 mm		
PKH-RK2HM0221	Rod Kit	22 mm		
PKH-RK2HM0225	Rod Kit	22 mm		
PKH-RK2HM0281	Rod Kit	28 mm		
PKH-RK2HM0285	Rod Kit	28 mm		
PKH-RK2HM0361	Rod Kit	36 mm		
PKH-RK2HM0365	Rod Kit	36 mm		
PKH-RK2HM0451	Rod Kit	45 mm		
PKH-RK2HM0455	Rod Kit	45 mm		



PARKER

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Sales Part Number	Description	Rod Size	Bore Size	ID x OD x W
PKH-RK2HM0561	Rod Kit	56 mm		
PKH-RK2HM0565	Rod Kit	56 mm		
PKH-RK2HM0701	Rod Kit	70 mm		
PKH-RK2HM0705	Rod Kit	70 mm		
PKH-RK2HM0901	Rod Kit	90 mm		
PKH-RK2HM0905	Rod Kit	90 mm		
PKH-RK2HM1101	Rod Kit	110 mm		
PKH-RK2HM1105	Rod Kit	110 mm		
PKH-RK2HM1401	Rod Kit	140 mm		
PKH-RK2HM1405	Rod Kit	140 mm		
PKH-SKL7000MA1	Rod & Piston Seal Kit	5/8	1-1/2	
PKH-SKL7000MA5	Rod & Piston Seal Kit	5/8	1-1/2	
PKH-SKL7001MA1	Rod & Piston Seal Kit	5/8	2	
PKH-SKL7001MA5	Rod & Piston Seal Kit	5/8	2	
PKH-SKL7002MA1	Rod & Piston Seal Kit	1	2	
PKH-SKL7002MA5	Rod & Piston Seal Kit	1	2	
PKH-SKL7003MA1	Rod & Piston Seal Kit	5/8	2-1/2	
PKH-SKL7003MA5	Rod & Piston Seal Kit	5/8	2-1/2	
PKH-SKL7004MA1	Rod & Piston Seal Kit	1	2-1/2	
PKH-SKL7004MA5	Rod & Piston Seal Kit	1	2-1/2	
PKH-SKL7005MA1	Rod & Piston Seal Kit	1	3-1/4	
PKH-SKL7005MA5	Rod & Piston Seal Kit	1	3-1/4	
PKH-SKL7006MA1	Rod & Piston Seal Kit	1-3/8	3-1/4	
PKH-SKL7006MA5	Rod & Piston Seal Kit	1-3/8	3-1/4	
PKH-SKL7007MA1	Rod & Piston Seal Kit	1	4	
PKH-SKL7007MA5	Rod & Piston Seal Kit	1	4	
PKH-SKL7008MA1	Rod & Piston Seal Kit	1-3/8	4	
PKH-SKL7008MA5	Rod & Piston Seal Kit	1-3/8	4	
PKH-SKL7009MA1	Rod & Piston Seal Kit	1	5	
PKH-SKL7009MA5	Rod & Piston Seal Kit	1	5	
PKH-SKL7010MA1	Rod & Piston Seal Kit	1-3/8	5	
PKH-SKL7010MA5	Rod & Piston Seal Kit	1-3/8	5	
PKH-SKL7098MA1	Rod & Piston Seal Kit	1-3/8	6	
PKH-SKL7098MA5	Rod & Piston Seal Kit	1-3/8	6	



ROYAL

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ROYAL

A Series Pneumatic Kits

A Cylinders

Kit Composition Varies
Consult your representative.

Kit #	Code	Rod x Bore
RYL-KA207	N-U-5	3/4" X 2"
RYL-KA210	N-U-5	1" X 2"
RYL-KA310	I-U-5	1" X 3"
RYL-KA312	I-U-5	1-1/4" X 3"
RYL-KA412	I-U-5	1-1/4" X 4"
RYL-KA415	I-U-5	1-1/2" X 4"
RYL-KA512	I-U-5	1-1/4" X 5"
RYL-KA515	I-U-5	1-1/2" X 5"
RYL-KA615	I-U-5	1-1/2" X 6"
RYL-KA617	I-U-5	1-3/4" X 6"
RYL-KA620	I-U-5	2" X 6"
RYL-KA820	I-U-5	2" X 8"
RYL-KA1030	I-U-5	3" X 10"
RYL-KA1230	I-U-5	3" X 12"
RYL-KA1235	I-U-5	3-1/2" X 12"
RYL-KA1506	N-U-5	5/8" X 1-1/2"

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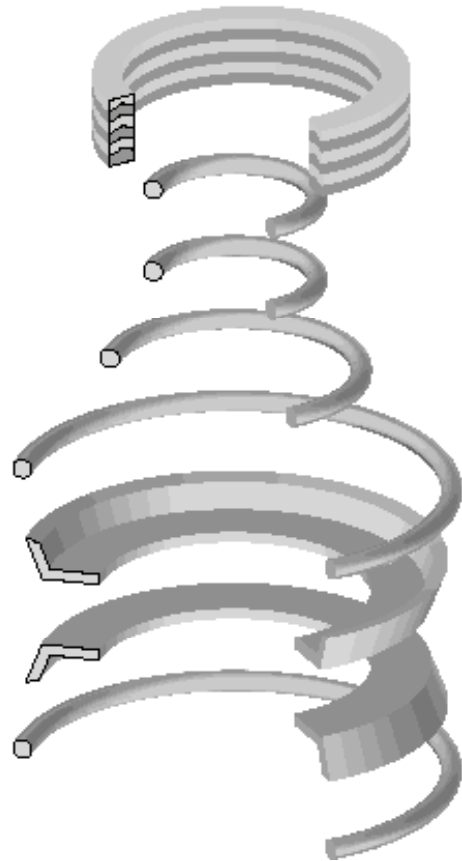
M Series Pneumatic Kits

M Cylinders

Kit #	Code	Rod x Bore
RYL-KM415	N-V-7	1-1/2" X 4"
RYL-KM620	N-V-7	2" X 6"
RYL-KM820	N-V-7	2" X 8"
RYL-KM825	N-V-7	2-1/2" X 8"
RYL-KM1025	N-V-7	2-1/2" X 10"
RYL-KM1030	N-V-7	3" X 10"
RYL-KM1235	N-V-7	3-1/2" X 12"

Kit Includes:

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



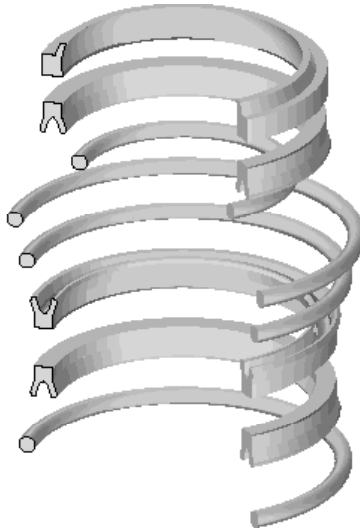
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H Series Hydraulic Kits

H Cylinders



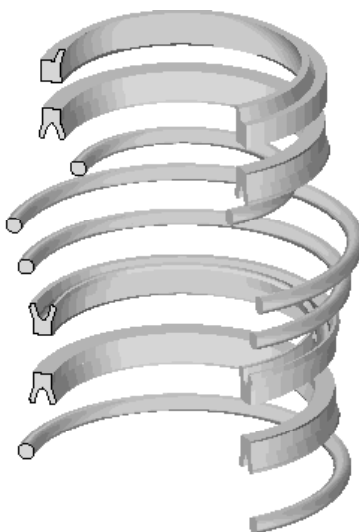
Kit #	Code	Rod x Bore
RYL-KH1510	I-U-5	1" X 1-1/2"
RYL-KH2510	I-U-5	1" X 2-1/2"
RYL-KH2517	I-U-5	1-3/4" X 2-1/2"
RYL-KH3217	I-U-5	1-3/4" X 3-1/4"
RYL-KH3220	I-U-5	2" X 3-1/4"
RYL-KH4017	I-U-5	1-3/4" X 4"
RYL-KH4025	I-U-5	2-1/2" X 4"
RYL-KH5020	I-U-5	2" X 5"
RYL-KH6025	I-U-5	2-1/2" X 6"

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
RYL-K2K212	I-U-5	1-1/4" X 2"
RYL-K2K2510	I-U-5	1" X 2-1/2"
RYL-K2K2512	I-U-5	1-1/4" X 2-1/2"
RYL-K2K312	I-U-5	1-1/4" X 3"

Kit Includes:

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



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ROYAL

Kit Number	Code	Rod x Bore
RYL-K2K212	I-U-5	1-1/4 X 2
RYL-K2K2510	I-U-5	1 X 2-1/2
RYL-K2K2512	I-U-5	1-1/4 X 2-1/2
RYL-K2K312	I-U-5	1-1/4 X 3
RYL-KA1030	I-U-5	3 X 10
RYL-KA1230	I-U-5	3 X 12
RYL-KA1235	I-U-5	3-1/2 X 12
RYL-KA1506	N-U-5	5/8 X 1-1/2
RYL-KA207	N-U-5	3/4 X 2
RYL-KA210	N-U-5	1 X 2
RYL-KA310	I-U-5	1 X 3
RYL-KA312	I-U-5	1-1/4 X 3
RYL-KA412	I-U-5	1-1/4 X 4
RYL-KA415	I-U-5	1-1/2 X 4
RYL-KA512	I-U-5	1-1/4 X 5
RYL-KA515	I-U-5	1-1/2 X 5
RYL-KA615	I-U-5	1-1/2 X 6
RYL-KA617	I-U-5	1-3/4 X 6
RYL-KA620	I-U-5	2 X 6
RYL-KA820	I-U-5	2 X 8
RYL-KH1510	I-U-5	1 X 1-1/2
RYL-KH2510	I-U-5	1 X 2-1/2
RYL-KH2517	I-U-5	1-3/4 X 2-1/2
RYL-KH3217	I-U-5	1-3/4 X 3-1/4
RYL-KH3220	I-U-5	2 X 3-1/4
RYL-KH4017	I-U-5	1-3/4 X 4
RYL-KH4025	I-U-5	2-1/2 X 4
RYL-KH5020	I-U-5	2 X 5
RYL-KH6025	I-U-5	2-1/2 X 6
RYL-KM1025	N-V-7	2-1/2 X 10
RYL-KM1030	N-V-7	3 X 10
RYL-KM1235	N-V-7	3-1/2 X 12
RYL-KM415	N-V-7	1-1/2 X 4
RYL-KM620	N-V-7	2 X 6
RYL-KM820	N-V-7	2 X 8
RYL-KM825	N-V-7	2-1/2 X 8



SHEFFER

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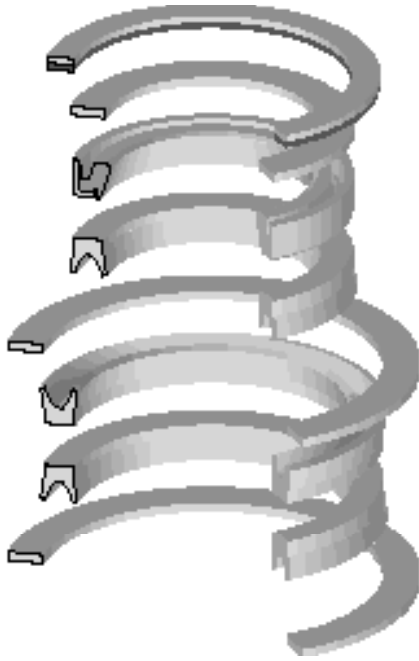
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SHEFFER

C20 SERIES

Pneumatic Kits



Kit #	Code	Rod x Bore
SHF-720-00150	P-U-5	1/2" X 1-1/2"
SHF-720-00200	P-U-5	1/2" X 2"
SHF-720-00250	P-U-5	5/8" X 2-1/2"
SHF-720-00300	P-U-5	3/4" X 3"
SHF-720-00350	P-U-5	3/4" X 3-1/2"
SHF-720-00400	P-U-5	1" X 4"
SHF-720-00500	P-U-5	1" X 5"
SHF-720-00600	P-U-5	1" X 6"
SHF-720-00700	P-U-5	1-3/8" X 7"
SHF-720-00800	P-U-5	1-3/8" X 8"

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
SHF-720-01-0300	P-U-5	3/4" X 3"
SHF-720-01-0400	P-U-5	1" X 4"
SHF-720-01-0500	P-U-5	1" X 5"
SHF-720-01-0800	P-U-5	1-3/8" X 8"
SHF-726-0267-1000-0175	I-U-5	1-3/4" X 10"
SHF-760-01-0200-0137	I-U-10	1-3/8" X 2"
SHF-760-01-0250-0175	I-U-10	1-3/4" X 2-1/2"
SHF-761-01-0200-0137	I-U-10	1-3/8" x 2"
SHF-761-01-0250-0175	I-U-10	1-3/4" X 2-1/2"

Kit Composition Varies

Consult your
representative.

SHEFFER

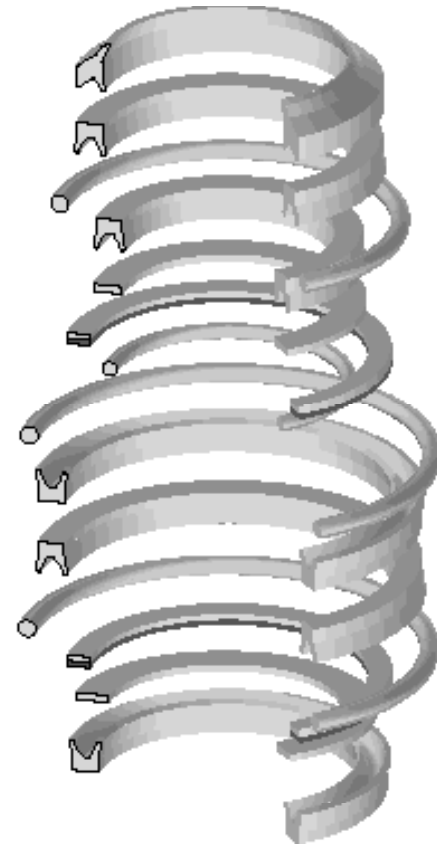
A SERIES

Pneumatic Kits

Kit #	Code	Rod x Bore
SHF-726-0167-0200-0062	I-U-5	5/8" X 2"
SHF-726-0167-0250-0062	I-U-5	5/8" X 2-1/2"
SHF-726-0167-0250-0100	I-U-5	1" X 2-1/2"
SHF-726-0167-0250-0137	I-U-5	1-3/8" X 2-1/2"
SHF-726-0167-0325-0100	I-U-5	1" X 3-1/4"
SHF-726-0167-0325-0137	I-U-5	1-3/8" X 3-1/4"
SHF-726-0167-0325-0175	I-U-5	1-3/4" X 3-1/4"
SHF-726-0167-0400-0100	I-U-5	1 X 4"
SHF-726-0167-0400-0137	I-U-5	1-3/8" X 4"
SHF-726-0167-0400-0175	I-U-5	1-3/4" X 4"
SHF-726-0167-0500-0100	I-U-5	1 X 5"
SHF-726-0167-0500-0137	I-U-5	1-3/8" X 5"
SHF-726-0167-0500-0175	I-U-5	1-3/4" X 5"
SHF-726-0167-0600-0137	I-U-5	1-3/8" X 6"
SHF-726-0167-0600-0175	I-U-5	1-3/4" X 6"
SHF-726-0167-0700-0137	I-U-5	1-3/8" X 7"
SHF-726-0167-0800-0137	I-U-5	1-3/8" X 8"
SHF-726-0167-0800-0175	I-U-5	1-3/4" X 8"
SHF-726-0167-1000-0175	I-U-5	1-3/4" X 10"

Kit Includes:

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



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Various Kits

Kit #	Code	Rod x Bore
SHF-720-01-0600	P-U-4	1" X 6"
SHF-726-0107-0200-0100	I-U-5	1" X 2"
SHF-729-0200-K019	P-U-5	1-1/4" X 2"
SHF-729-0500-K003	P-U-5	2" X 5" Double Rod
SHF-757-01-0325-0137	I-U-10	1-3/8" X 3-1/4"
SHF-759-0100-0325-0137	I-U-5	1-3/8" X 3-1/4"
SHF-760-0100-0400-0175	I-U-10	1-3/4" X 4"
SHF-760-22-0600-0250	I-U-1	2-1/2" x 6"
SHF-761-01-0800-0350	I-U-10	3-1/2" X 8
SHF-795-S003	I-U-10	1-1/4 X 2-3/4

Kit Composition Varies

Consult your representative.



SHEFFER

Kit Number	Code	Rod x Bore
SHF-720-00150	P-U-5	1/2 X 1-1/2
SHF-720-00200	P-U-5	1/2 X 2
SHF-720-00250	P-U-5	5/8 X 2-1/2
SHF-720-00300	P-U-5	3/4 X 3
SHF-720-00350	P-U-5	3/4 X 3-1/2
SHF-720-00400	P-U-5	1 X 4
SHF-720-00500	P-U-5	1 X 5
SHF-720-00600	P-U-5	1 X 6
SHF-720-00700	P-U-5	1-3/8 X 7
SHF-720-00800	P-U-5	1-3/8 X 8
SHF-720-01-0300	P-U-5	3/4 X 3
SHF-720-01-0350	P-U-5	3/4 X 3-1/2
SHF-720-01-0400	P-U-5	1 X 4
SHF-720-01-0500	P-U-5	1 X 5
SHF-720-01-0600	P-U-4	1 X 6
SHF-720-01-0800	P-U-5	1-3/8 X 8
SHF-726-0107-0200-0100	I-U-5	1 X 2
SHF-726-0167-0200-0062	I-U-5	5/8 X 2
SHF-726-0167-0250-0062	I-U-5	5/8 X 2-1/2
SHF-726-0167-0250-0100	I-U-5	1 X 2-1/2
SHF-726-0167-0250-0137	I-U-5	1-3/8 X 2-1/2
SHF-726-0167-0325-0100	I-U-5	1 X 3-1/4
SHF-726-0167-0325-0137	I-U-5	1-3/8 X 3-1/4
SHF-726-0167-0325-0175	I-U-5	1-3/4 X 3-1/4
SHF-726-0167-0400-0100	I-U-5	1 X 4
SHF-726-0167-0400-0137	I-U-5	1-3/8 X 4
SHF-726-0167-0400-0175	I-U-5	1-3/4 X 4
SHF-726-0167-0500-0100	I-U-5	1 X 5
SHF-726-0167-0500-0137	I-U-5	1-3/8 X 5
SHF-726-0167-0500-0175	I-U-5	1-3/4 X 5
SHF-726-0167-0600-0137	I-U-5	1-3/8 X 6
SHF-726-0167-0600-0175	I-U-5	1-3/4 X 6
SHF-726-0167-0700-0137	I-U-5	1-3/8 X 7
SHF-726-0167-0800-0137	I-U-5	1-3/8 X 8
SHF-726-0167-0800-0175	I-U-5	1-3/4 X 8
SHF-726-0167-1000-0175	I-U-5	1-3/4 X 10
SHF-726-0267-1000-0175	I-U-5	1-3/4 X 10
SHF-729-0200-K019	P-U-5	1-1/4 X 2
SHF-729-0500-K003	P-U-5	2 X 5 Double Rod
SHF-757-01-0325-0137	I-U-10	1-3/8 X 3-1/4
SHF-759-0100-0325-0137	I-U-5	1-3/8 X 3-1/4
SHF-760-0100-0400-0175	I-U-10	1-3/4 X 4
SHF-760-01-0200-0137	I-U-10	1-3/8 X 2
SHF-760-01-0250-0175	I-U-10	1-3/4 X 2-1/2
SHF-760-22-0600-0250	I-U-1	2-1/2 x 6
SHF-761-01-0200-0137	I-U-10	1-3/8 X 2
SHF-761-01-0250-0175	I-U-10	1-3/4 X 2-1/2
SHF-761-01-0700-0400	I-U-10	4 X 7
SHF-761-01-0800-0350	I-U-10	3-1/2 X 8
SHF-795-S003	I-U-10	1-1/4 X 2-3/4



TOMPKINS-JOHNSON / TJ

Various Kits

Kit #	Code	Rod x Bore
TJ-28136862	N-TR-11	1 X 5
TJ-6331U-027	N-U-10	1-1/4 X 4
TJ-6332U-014	N-U-5	1 X 2-1/2
TJ-6332U-026	N-U-5	1 X 4
TJ-6332U-028	N-V-5	1-3/8 X 4
TJ-6332U-030	N-U-5	1-3/4 X 4
TJ-6332U-035	N-U-5	1 X 5
TJ-6332U-048	N-V-5	1-3/4 X 6
TJ-6332U-069	N-V-5	1-3/8 X 8
TJ-6332U-070	N-V-5	1-3/4 X 8

Kit Composition Varies

Consult your
representative.

