

FLUID POWER SEALING SOLUTIONS

SPEEDSEAL[®] PROFILE AND DESCRIPTION

POLYMER SEALS

Wipers

The function of a wiper is to effectively clean and dislodge foreign matter from a reciprocating rod/ram to prevent contaminants from entering the system.

5K/21K STANDARD WIPER

Positive rake wiper designed to effectively clean and dislodge foreign matter from retracting rod/ram to prevent scoring and system contamination.

Profile	Description
W5K	Molded wiper with flange design
W21KF	Machined wiper with flange design
W21KT5	Machined wiper to accommodate taller grooves heights while providing added stability
W21K	Machined wiper with static bump flange design to eliminate migration of contaminants
W21KC	Machined combination wiper and rod seal, pneumatic use only
W21KC1	Machined combination wiper and rod seal with static stabilizing bump, pneumatic use only
W21KCS	Machined combination wiper and rod seal designed with stepped flange, pneumatic only
W21KH	Machined wiper with flange design, for replacement as a hat seal
W21KM	Machined wiper designed with snap-in fit for specific equipment types
W21KR	Machined wiper with static flange bump and stabilizing heel
W21KS	Machined wiper profile for with stepped flange
WCCS	Machined wiper using an O-ring loader for use with PTFE compounds



5K/21K CANNED WIPERS

Positive rake canned wiper designed to effectively clean and dislodge foreign matter from retracting rod/ram to prevent scoring and system contamination. A canned wiper is a press-fit design for use in an open housing groove and does require an additional retaining device due to the interference fit.

Profile	Description
CW21K	Machined dual component, full canned stepped flange canned wiper design
CW21K1	Machined dual component, partial stepped flange canned wiper design
CW21K2	Machined dual component with taller static lip canned wiper design
CW21K3	Machined dual component, full canned wiper design



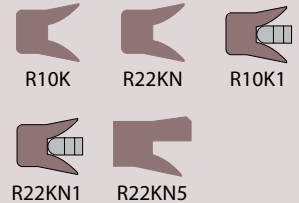
Rod Seals – U-cups

The function of a rod seal is to prevent fluid bypass along the dynamic (e.g., rod /ram) and static (stuffing box bore) surface under various operating conditions. A U-cup design refers to a continuous seal ring with a profile similar to the letter u.

10K / 22KN U-CUPS

A continuous, single-acting, rod or piston seal U-cup design that wipes contaminants away from the mating surface while in operation. The positive rake, lip profile provides an optimal amount of radial sealing load with minimal frictional resistance. Designed for use in hydraulic or pneumatic applications.

Profile	Description
R10K	Molded rod seal design for use in hydraulic or pneumatic cylinders and presses
R22KN	Machined rod seal design for use in hydraulic or pneumatic cylinders and presses
R10K1	Molded rod seal design with a standoff ring for vacuuming situations
R22KN1	Machined rod seal design with a standoff ring for vacuuming situations
R22KN5	Machined rod seal design with taller static lip for added stability and to resist vacuuming



6K U-CUPS

Continuous, single-acting, U-cup design with a positive rake profile that wipes contaminants away for the mating surface while in operation. The rugged, rubber-based construction is ideal for older, worn hydraulic cylinders and presses since it conforms to surface irregularities to effectively control leakage.

Profile	Description
R6K	Molded rod seal design for use in older, worn equipment



22K U-CUPS

A continuous, single-acting, rod or piston hydraulic seal design with a special lip geometry that increases lip pre-load and provides zero leakage throughout the entire operating range. The sturdy, static lip stabilizes the seal to prevent rolling while the negative rake lip profile eases installation.

Profile	Description
R22K	Machined rod seal for hydraulic cylinders and presses
R22KAER	Machined rod seal that includes a partial, rectangular anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes
R22KAER1	Machined rod seal that includes a custom anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes



22KE U-CUPS

A continuous, single-acting, rod or piston design incorporates the use of an O-ring to increase pre-load capabilities to improve low pressure sealing capabilities and high shock load loads capabilities in hydraulic applications. The O-ring energizes the seal which increases the pre-load capabilities of the seal in the absence of system pressure.

Profile	Description
R22KE	Machined rod seal for hydraulic cylinders and presses
R22KEAER	Machined rod seal that includes a partial, rectangular anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes
R22KEAER1	Machined rod seal that includes a partial, anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes



23K U-CUPS

A continuous, single-acting, rod or piston design that incorporates a unique, dynamic lip geometry that provides the optimal sealing force required for pneumatic applications.

Profile	Description
R23K	Machined continuous rod seal design



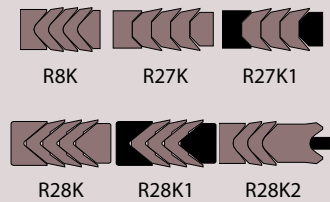
Rod Seals – Stacked Sets

Stacked V-ring seal designs are most commonly used to ensure ease of installation due to the split design although in some cases continuous designs are preferred. These V-ring sets incorporate sealer rings that are nested inside a female/top and a male/bottom adapter. The number of sealer rings used in a set is predicated upon system pressure. The male adapter is used to ensure alignment of the sealer rings while also helping to energize the set under system pressure. The female adapter is designed to ensure alignment and support of the set while helping to compensate for extrusion into large equipment clearances.

8K/27K STACKED SETS

The pressure activated rod and piston V-ring sets are designed for use in hydraulic applications. The single acting, positive rake profile contacts through the center of the set to ensure even loading, longer sealing life using minimal gland pressure. Most sets are available split or solid.

Profile	Description
R8K	Molded single acting symmetrical seal set, available split or solid
R27K	Machined single acting symmetrical seal set, available split or solid
R27K1	Machined single acting symmetrical seal set with custom adapters for large clearances
R28K	Machined single acting symmetrical seal set for replacement of typical industry sets
R28K1	Machined single acting symmetrical seal set with adapters made from engineered plastics for added support and extrusion resistance
R28K2	Custom machined single acting symmetrical seal set with male adapters made from engineered plastics for added support and extrusion resistance



11K STACKED SETS

The single acting, two-piece stacked rod seal set employs a negative rake design to optimize operating performance while easing installation into the stuffing box cavity. The bottom ring is the primary sealer while the top ring works as an anti-extrusion ring, provides secondary sealing, and provides added support to the sealer ring. The set is available in various material combinations as well as split or solid designs.

Profile	Description
R11K	Molded or machined, symmetrical seal for hydraulic applications
R11KSPCR	Molded or machined, custom spacer used with seal set to help compensate for vacuuming, side loading conditions or shock loading conditions
R11KWSPCR	Molded or machined, single-acting two-piece stacked set with a custom designed spacer to help compensate for vacuuming conditions



600 STACKED SETS

Single acting, conventional compression stacked V-ring set that enables increased seal loading against sealing surfaces with increased gland pressure. While the rubber based material conforms to surface imperfections to control leakage. Set includes sealer rings and bottom adapter.

Profile	Description
R600	Molded single acting, conventional stacked design for older worn equipment, available split or solid



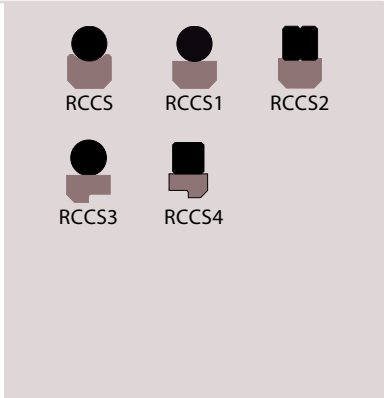
Rod Seals – Compression/Static

Compression type seals are typically designed with a higher initial pre-load which helps to control leakage at low pressure. These profiles are typically designed for use in a single cavity groove but are able to seal pressure in both directions.

RCCS ROD/COMPRESSION SEALS

Continuous, two-piece, bi-directional sealing system that uses an elastomer cap with an O-ring to create a very effective seal for single groove cavities in hydraulic applications. The cap is used as the dynamic sealing element while the O-ring energizes the cap and creates a static seal.

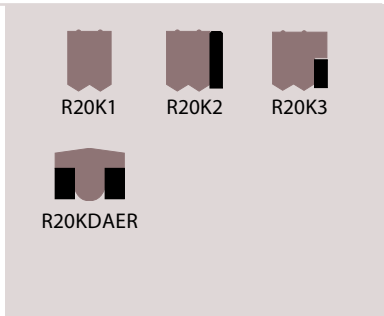
Profile	Description
RCCS	Machined two-piece, rod seal with an elliptical cap profile for more efficient loading in hydraulic applications
RCCS1	Machined two-piece, rod seal with a standard profile for use in hydraulic applications
RCCS2	Machined two-piece, rod seal with a rectangular loader for use in highly dynamic hydraulic applications
RCCS3	Machined two-piece, rod seal with a stepped cap profile for use in hydraulic applications
RCCS4	Machined two-piece, piston seal with a rectangular loader and a stepped cap profile for use in highly dynamic hydraulic applications



20K COMPRESSION

Continuous, bi-directional compression seal designed with dual independent sealing points. The heavy, durable dual lip design was specifically designed for single groove cavities in heavy duty, high pressure hydraulic applications. The seal design has the ability to withstand pressure spikes while helping to compensate for equipment side loading and maintain high unit loading.

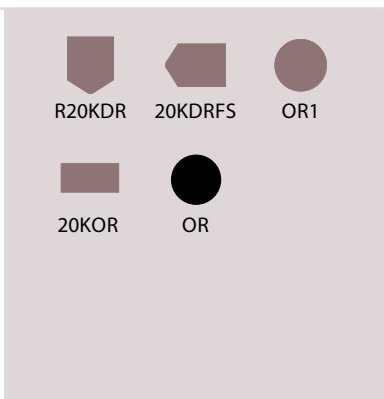
Profile	Description
R20K1	Machined heavy duty rod seal for use in hydraulic applications
R20K2	Machined heavy duty rod seal with full anti-extrusion ring
R20K3	Machined heavy duty rod seal with partial anti-extrusion ring
R20KDAER	Machined heavy duty rod seal with two partial anti-extrusion rings



20KD STATIC/FACE

A continuous, high performance compression seal that is most commonly designed for use in static applications and is often applied as an upgrade from conventional O-rings. Designs are available for internal face sealing as well as external face sealing commonly found in single- or double-acting applications.

Profile	Description
R20KDR	Machined seal with a D profile with dynamic seal profile located on the inner diameter
20KDRFS	Machined profile for face sealing with the dynamic seal profile located on either the top or bottom
OR1	Machined seal for replacement of an O-ring
20KOR	Machined rectangular seal for sealing static connecting ports of standard hydraulic valves and control units
OR	Machined seal for replacement of a conventional O-ring



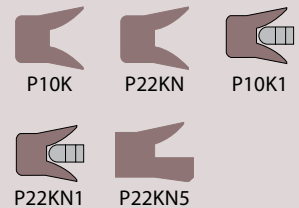
Piston Seals – U-cups

The function of a piston seal is to prevent fluid bypass between the piston head and cylinder bore under various operating conditions.

10K/22KN U-CUPS

A continuous, single-acting, rod or piston seal, U-cup design that wipes contaminants away for the mating surface while in operation. The positive rake, lip profile provides an optimal amount of radial sealing load with minimal frictional load designed for use in hydraulic or pneumatic applications.

Profile	Description
P10K	Molded piston seal design for use in hydraulic or pneumatic cylinders and presses
P22KN	Machined piston seal design for use in hydraulic or pneumatic cylinders and presses
P10K1	Molded piston seal design with a standoff ring for vacuuming situations
P22KN1	Machined piston seal design with a standoff ring for vacuuming situations
P22KN5	Machined piston seal design with taller static lip for added stability and to resist vacuuming



22K U-CUPS

A continuous, single-acting, rod or piston hydraulic seal design with a special lip geometry that provides zero leakage throughout the entire operating range. The sturdy, static lip stabilizes the seal to prevent rolling while the negative rake lip profile eases installation.

Profile	Description
P22K	Machined piston seal for hydraulic cylinders and presses
P22KAER	Machined piston seal that includes a partial, rectangular anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes
P22KAER1	Machined piston seal that includes a custom anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes



22KE U-CUPS

A continuous, single-acting, rod or piston design incorporates the use of an O-ring to increase pre-load capabilities for extreme low pressure sealing capabilities in hydraulic applications. The O-ring energizes the seal which increases the pre-load capabilities of the seal in the absence of system pressure.

Profile	Description
P22K	Machined piston seal for hydraulic cylinders and presses
P22KAER	Machined piston seal that includes a partial, rectangular anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes
P22KAER1	Machined piston seal that includes a custom anti-extrusion ring for equipment exposed to excessive clearances and pressure spikes



23K U-CUPS

A continuous, single-acting, rod or piston design that incorporates a unique, dynamic lip geometry that provides the optimal sealing force required for pneumatic applications.

Profile	Description
P23K	Machined continuous piston seal design



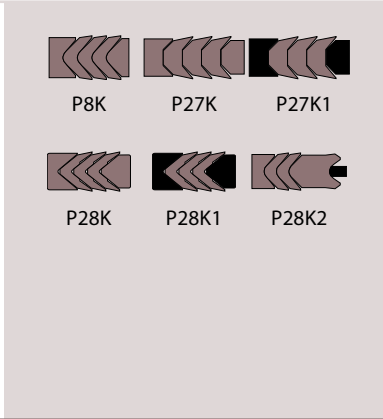
Piston Seals – Stacked Sets

Stacked V-ring seal designs are most commonly used to ensure ease of installation due to the split design. The sealer rings are nested inside a female/top and a male/bottom adapter. The male adapter centers the sealer rings while also energizing the set under system pressure. The female adapter is designed to support the set and help compensate for extrusion into large equipment clearances.

8K/27K STACKED SETS

The pressure activated rod and piston V-ring sets are designed for use in hydraulic applications. The single acting, positive rake profile contacts through the center of the set to ensure even loading, longer sealing life using minimal gland pressure. Most sets are available split or solid.

Profile	Description
P8K	Molded single acting symmetrical seal set, available split or solid
P27K	Machined single acting symmetrical seal set, available split or solid
P27K1	Machined single acting symmetrical seal set with custom adapters for large clearances
P28K	Machined single acting symmetrical seal set for replacement of typical industry sets
P28K1	Machined single acting symmetrical seal set with adapters made from engineered plastics for added support and extrusion resistance
P28K2	Custom machined single acting symmetrical seal set with male adapters made from engineered plastics for added support and extrusion resistance

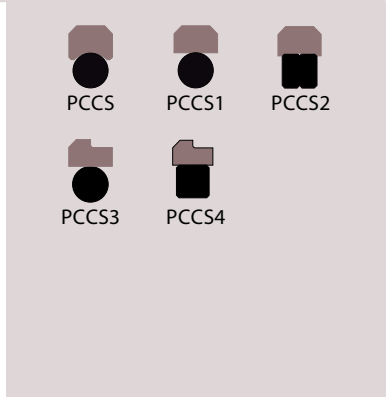


Piston Seals – Compression

CCS COMPRESSION

Continuous, two-piece, bi-directional sealing system that uses an elastomer cap with an O-ring to create a very effective seal for single groove cavities in hydraulic applications. The cap is used as the dynamic sealing element while the O-ring energizes the cap and creates a static seal.

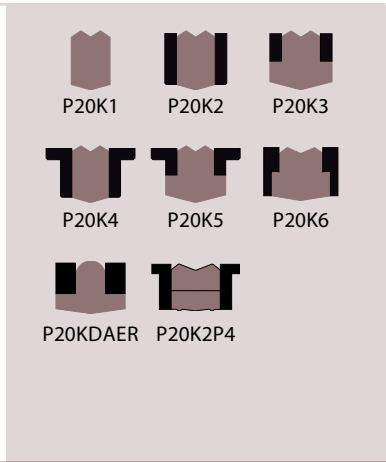
Profile	Description
PCCS	Machined two-piece piston seal with an elliptical cap profile for more efficient loading in hydraulic applications
PCCS1	Machined two-piece piston seal with a standard profile for use in hydraulic applications
PCCS2	Machined two-piece piston seal with a rectangular loader for use in highly dynamic hydraulic applications
PCCS3	Machined two-piece piston seal with a stepped cap profile for use in hydraulic applications
PCCS4	Machined two-piece piston seal with a rectangular loader and a stepped cap profile for use in highly dynamic hydraulic applications



20K COMPRESSION

Continuous, bi-directional compression seal designed with dual independent sealing points. The heavy, durable, dual lip design was specifically designed for single groove cavities in heavy duty, high pressure, hydraulic applications. The seal design has the ability to withstand pressure spikes while helping to compensate for equipment side loading.

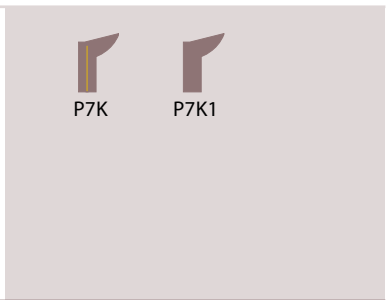
Profile	Description
P20K1	Machined heavy duty piston seal for use in hydraulic applications
P20K2	Machined heavy duty bi-directional piston seal with two full anti-extrusion rings
P20K3	Machined heavy duty piston seal with two partial anti-extrusion rings
P20K4	Machined heavy duty piston seal with two full L-shaped anti-extrusion rings
P20K5	Machined heavy duty, piston seal with two partial L-shaped anti-extrusion rings
P20K6	Machined heavy duty, piston seal with two partial L-shaped anti-extrusion rings
P20KDAER	Machined heavy duty piston seal with two sturdy rectangular anti-extrusion rings
P20K2P4	Machined heavy duty 4 piece, piston seal with two full L-shaped anti-extrusion rings



7K PISTON CUP

Single acting piston cup has a positive, flared lip design to optimize sealing forces. The molded design is supplied with a supporting metallic brass disc, molded into the base of the seal to prevent over-compression of the flange and improve seal performance. The resulting rigid base provides a stable, non-distorting, anti-extrusion resistant seal. These can also be used back-to-back for double-acting applications.

Profile	Description
P7K	Molded piston cup seal design with built-in supporting metallic brass disc in base to improve stability and anti-extrusion resistance
P7K1	Machined piston cup seal design (does not include a built-in brass disc)



20KD PISTON MOUNTED – STATIC FACE

A continuous, high performance compression seal that is most commonly designed for use in static applications and is often applied as an upgrade from conventional O-rings. Designs are available for internal face sealing as well as external face sealing commonly found in single- or double-acting applications.

Profile	Description
P20KDR	Machined seal profile with dynamic side located on the inner diameter
20KOR	Machined rectangular seal for sealing static connecting ports of standard hydraulic valves and control units

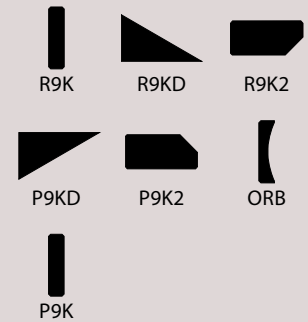


Ancillary Devices – Anti-extrusion Rings (AER)

9K ANTI-EXTRUSION RINGS (AER)

Anti-extrusion rings, sometimes referred to as back-up rings, are designed to prevent seals from extruding into equipment clearances while under pressure. Used in conjunction with a seal or O-ring, they are available in various extrusion-resistant materials and are located on the back-side or low pressure side of the sealing element they are supporting.

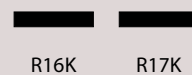
Profile	Description
R9K	Machined, rectangular profile, rod design
R9KD	Machined, triangular profile used with rod seal
R9K2	Machined, custom profile designed for distinct rod seal design
P9KD	Machined, triangular profile used with distinct piston seal design
P9K2	Machined, custom profile used with distinct piston seal design
ORB	Machined, custom profile used in combination with an O-ring
P9K	Machined, rectangular profile, piston design



16K/17K BEARING ELEMENTS

Bearing Band Strips are the economical solution to costly cylinder re-machining and repairs suitable for use on rams or pistons in reciprocating applications. These split, replaceable bearings prevent metal-to-metal contact of moving parts and help prolong equipment life.

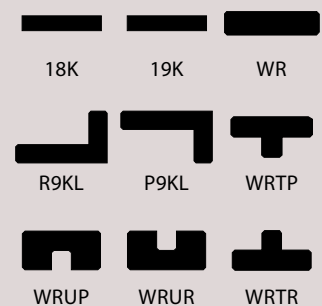
Profile	Description
16K	Molded continuous coil form for metric sizes used for rod and piston applications
17K	Molded continuous coil form for inch sizes used for rod and piston applications



18K, 19K BEARING ELEMENTS AND CUSTOM WEAR RINGS

Bearing Bands and wear rings are the solution to costly cylinder re-machining and repairs for hydraulic or pneumatic equipment. These split, replaceable bearings prevent metal-to-metal contact of moving parts and help prolong equipment and seal life. These bearings reduce radial movement, therefore extending seal, life reducing the risk of reoccurring damage.

Profile	Description
18K	Molded imperial sized bearing band for use in medium and heavy duty rod and piston applications made from glass fiber reinforced heat stabilized nylon
19K	Precision machined metric sized bearing band for use in medium and heavy duty rod and piston applications made from glass fiber reinforced heat stabilized nylon
WR	Machined custom sized wear ring for use in light to medium duty rod and piston applications available in various engineered plastics
R9KL	Machined L shaped wear ring for use in light to medium duty rod applications, available in various engineered plastics
P9KL	Machined L shaped wear ring for use in light to medium duty piston applications, available in various engineered plastics
WRTP	Machined T shaped wear ring for use in light to medium duty piston applications, available in various engineered plastics
WRUP	Machined custom designed contoured wear ring for use in light to medium duty piston applications, available in various engineered plastics
WRUR	Machined custom designed wear ring for use in light to medium duty rod applications, available in various engineered plastics
WRTR	Machined T shaped wear ring for use in light to medium duty rod applications, available in various engineered plastics



Rotary Seals

14K RESTRICTION BUSHING

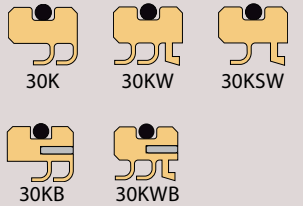
Restriction bushings designed for use in rotary equipment to form a barrier between the sealing device in the stuffing box or pump impeller housing and the pump medium. The bushing helps to prevent suspended abrasive particles from entering the stuffing box area and reduces flush requirements. Individually manufactured from various materials, these restriction bushings provide excellent performance in pumps, agitators, mixers, refiners, and other equipment.



Profile	Description
R14K	Machined polymer, restrictor bushing for use in rotary applications
R14K2P	Machined 2-piece restrictor bushing for large cross sections
R14KRBS	Machined spacer designed for use in deep stuffing boxes
R14KPF	Machined virgin PTFE, restrictor bushing for use in rotary applications, for use with aggressive fluids

30K BEARING AND GEARBOX PROTECTION

High performance continuous seals that improve on performance of conventional rotary lip seals in bearing and gear box applications. These designs are available in various filled PTFE materials which offer higher speeds, wider temperature range, greater chemical compatibility and longer life.



Profile	Description
30K	Machined continuous dual lip replacement seal for high or low speed rotary applications
30KW	Machined continuous dual lip replacement seal with built-in wiper design for high or low speed rotary applications
30KSW	Machined continuous single lip replacement seal with built-in wiper design with limited space for high or low speed rotary applications
30KB	Machined continuous dual lip replacement seal, with metallic stabilizing band, for high or low speed rotary applications
30KWB	Machined continuous dual lip replacement seal, with built-in wiper and metallic stabilizing band, for high or low speed rotary applications

33K BEARING AND GEARBOX PROTECTION

High performance split lip seals improve on performance of conventional rotary lip seals in bearing and gear box applications. The split design eliminates the need for equipment disassembly and installation time can be reduced from hours to minutes. Seal available in various PTFE filled materials with polymer adapters.



Profile	Description
33K	Machined split seal for use in high or low speed rotary applications

30KC POWDERS AND VISCOUS FLUIDS

High performance polymer cartridge seal for use in dynamic rotary seal applications. This cartridge design uses high performance, filled PTFE materials proven to withstand the high shear rates, frictional heat and abrasives common when pumping high viscosity products and powders.



Profile	Description
30KC	Machined cartridge design for sealing powders and viscous fluids

Spring Energized Seals

100 SERIES CANTILEVER DESIGN

Cantilever spring energized seals are primarily used in highly dynamic applications for rotary and reciprocating equipment because the spring design allows for high deflection with minimal loading. This is the most popular series for spring energized seal designs due to its unique attributes, which help to maximize seal and hardware life.

Profile	Description
100	Machined symmetrical U-cup seal for rod and piston applications
101	Machined U-cup rod seal with a positive rake profile on the dynamic lip
103	Machined symmetrical U-cup face seal
105	Machined symmetrical flanged U-cup rod seal for reciprocating and rotary, flange eliminates seal rotation
107	Machined U-cup piston seal specifically designed for large cross sections
109	Machined U-cup rod seal specifically designed for large cross sections
115	Machined U-cup rod and piston seal for low pressure reciprocating and rotary
119	Machined U-cup piston seal for low pressure reciprocating and rotary
130	Machined U-cup rod and piston seal with support ring for added stability of seal
139	Machined U-cup rod and piston seal designed to isolate media from spring



200 SERIES ELLIPTICAL DESIGN

Elliptical coil spring energized seals are commonly used in rotary, reciprocating, and static applications where hardware tolerances are relatively large or where a miniature seal is required. Elliptical coil spring designs allows for minimal deflection while applying intermediate loads.

Profile	Description
200	Machined symmetrical U-cup seal with a standard lip profile
204	Machined symmetrical face seal with a standard lip profile, designed to seal on the inside diameter
205	Machined symmetrical flanged U-cup rod seal for reciprocating and rotary, flange eliminates seal rotation



Spring Energized Seals

300 SERIES HELICAL DESIGN

Helical Wound spring energized seals are primarily used in static applications, slow speeds, extremely low temperatures, and/or infrequent dynamic conditions when friction and wear are secondary concerns. The spring design has excellent loading capabilities with minimal deflection.



Profile	Description
300	Machined symmetrical U-cup seal with a standard lip profile
304	Machined symmetrical face seal with a standard lip profile, designed to seal on the inside diameter
305	Machined symmetrical flanged U-cup rod seal for reciprocating and rotary, flange eliminates seal rotation

400 SERIES ROTARY

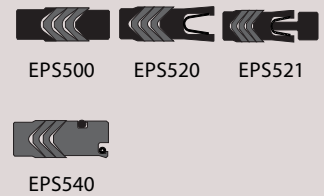
High performance, multi-purpose rotary seals are designed for use in dynamic applications. The unique seal lip design is mechanically formed to provide optimal sealing force. The materials are coupled with an exceptional seal design to provide excellent fluid compatibility and outstanding performance.



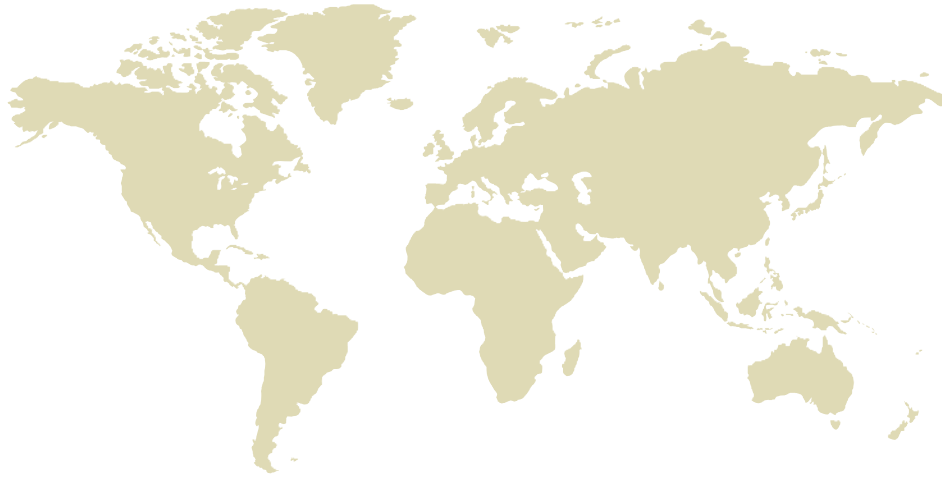
Profile	Description
411	Machined lip seal for rod applications to combat equipment with excess eccentricity
414	Machined lip seal for rod applications with spring energized static seal and dimensional stabilizer ring

500 SERIES STACKED SETS

High performance, multi-purpose stacked V-ring sets specifically designed to accommodate hardware with deep stuffing boxes. These stacked sets are used in both rotary and reciprocating applications and are available in solid and split designs, depending upon your application requirements.



Profile	Description
500	Machined symmetrical V-ring set, split or solid, designed for deep stuffing boxes
520	Machined symmetrical solid V-ring set, with spring loaded primary seal ring, designed for deep stuffing boxes
521	Machined symmetrical solid V-ring set, with spring loaded primary seal ring and stabilizer ring, designed for deep stuffing boxes
540	Machined symmetrical solid V-ring set, with spring loaded primary seal ring, designed for deep stuffing boxes



GLOBAL SOLUTIONS, LOCAL SERVICE

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Chesterton's global capabilities include:

- Servicing plants in over 100 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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