JE PRO SEAL PROFESSIONAL RACE SERIES

For the professional racer JE Pro Seal now offers ring combinations with reduced axial heights and radial widths. The combination of reduced radial and axial heights enable these rings better cylinder wall conformability. These steel rings utilize advanced materials and coatings, which help reduce friction and provide better ring seal. These ring sets include, Ultra Finish Rings (UFR), Critical Finish Rings (CFR), and Critical Tolerance Rings (CTR).

ULTRA FINISH RINGS

JE Pro Seal Ultra Finish Rings (UFR) are held to the most exacting tolerances in the industry. Specifically designed to compliment our Ultra Groove® custom piston options, these rings are finished to within +/-.000050" axial height to deliver unprecedented bore conformity and sealing properties. The lapped Ultra Finish process also yields extremely flat, smooth ring sides that result in a surface finish of less than 4µinRa (4 microinches).

CRITICAL FINISH RINGS

JE Pro Seal Critical Finish Rings (CFR) present an alternative to Ultra Finish Rings with the same surface finish (< 4µinRa) and a lapped axial height held within +/-.00015".

CRITICAL TOLERANCE RINGS

JE Pro Seal Critical Tolerance Rings (CTR) are held to +/-.00015 axial height and an industry standard (<40µinRa) lapped surface finish. An alternative to our Critical Finish rings, JE Pro Seal CTR's are available in many popular ring types. Call your JE Pro Seal sales representative for availability.

PRO *STEEL* RING SETS

All new from JE Pro Seal, steel ring sets utilizing a high strength alloy steel top ring providing superior bore conformity, complimented by the outstanding seal and wear characteristics of a high velocity plasma moly inlay coating. Top ring weights under 10 grams achievable as a result of reduced ring radials and short axial heights helping to minimize cylinder wall drag. Optional 2nd ring Napier hook profile design help to improve oil control and efficiency.

PRO SEAL® RINGS

"HNS" HARDENED NITROUS SERIES RING SETS

Specially designed for use with turbo and nitrous applications these HNS top rings have 20% more tensile strength than conventional ductile iron top rings. They are available in 1/16" and .043" axial heights in both standard and reduced radial widths. D017 Dykes are in stock with custom Dykes or backcut sizes available.

JE PRO SEAL PREMIUM SPORTSMAN SERIES

Our Premium Sportsman Series rings feature the highest quality ductile iron top rings available, combined with the latest technology plasma-moly inlay. Taper faced reverse torsional second rings. Combined with either 3/16 or 3mm, standard or low tension oil rings. These rings are also available with JE Full Seal® or Gapless® second rings.

JE PRO SEAL SPORTSMAN SERIES

JE Pro Seal Sportsman ring packages are manufactured in our most popular bore sizes designed with the sportsman racer in mind. Featuring a ductile iron plasma-moly top, premium iron taper faced second and standard tension oil rings, these rings are only available in sets with 1/16, 1/16, 3/16 axial heights.

JE PRO SEAL HIGH PERFORMANCE SMALL BORE SERIES

JE Pro Seal small bore rings sets are available with a choice of ductile iron plasma-moly top ring, alloy steel chrome faced top ring or steel gas nitrided top rings, and include premium iron taper faced second rings. These ring sets are available with both standard and low tension oil rings.

JE PRO SEAL MOTORCYCLE SERIES

4-stroke motorcycle pistons available in a wide variety of axial height and bore diameters. These ring sets offer the following top ring combinations; chrome faced, ferrox coated alloy steel; soft nitrided, nodular cast iron; cast iron, plasma moly; and gas nitrided alloy steel. The ring sets come with either a cast iron or alloy steel second ring. Depending on the bore size and application, these ring sets are available with both standard and low tension oil rings.

For more than 55 years JE Pistons has been the industry leader in the design, development and manufacture of high performance forged pistons. Now, the benefit of that experience, along with the technology and data gathered over the course of those years, has enabled JE to create a new product line to compliment our world-class piston designs; JE Pro Seal Piston Rings.

Our close relationships with every major ring manufacturer in the world coupled with our own in house processing capabilities and continuous development agreements with top racing teams in every major racing series in North America has enabled JE Pro Seal to develop and implement innovative, high quality, cost effective solutions for today's demanding high performance piston ring requirements. These valuable relationships, combined with JE Pro Seal's manufacturing capabilities allow us to offer our customers the most technically advanced choices of any ring supplier on the market.

CUSTOM DESIGN AND MANUFACTURING

Continuously working to improve piston ring technology available to the aftermarket consumer, JE Pro Seal now uses Ricardo's Ring Modeling software, RingPak® Pisdyn® to optimize new piston and ring designs. This software package allows JE Pro Seal to predict the effect of design changes while still in the development stage. After computer, dynamometer, and on-track testing we can then validate the proposed changes. This time saving procedure, when combined with our custom manufacturing capabilities, allows JE Pro Seal to deliver custom ring solutions with virtually infinite variability, faster than ever before. Call your JE Pro Seal representative today to see which ring package is right for your application.

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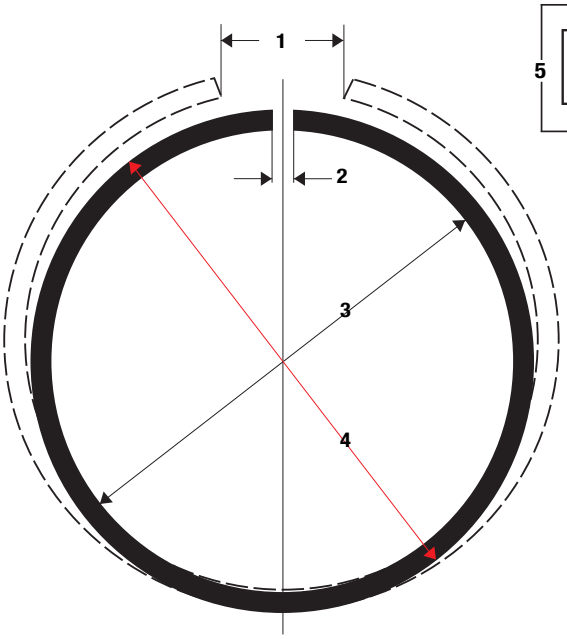
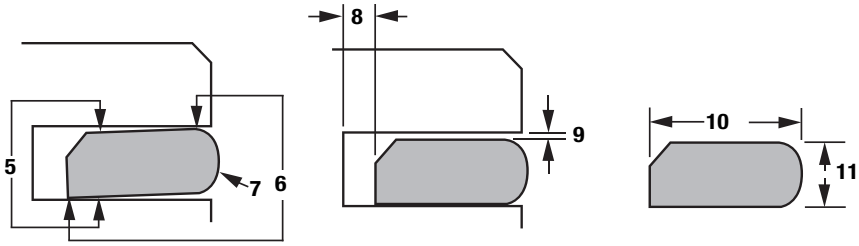
RING DIMENSIONS AND TERMINOLOGY

RING DIMENSIONS

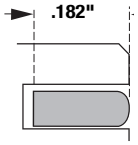




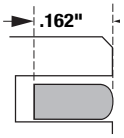
1. ***Free Gap:*** *The end gap clearance when the ring is not compressed*
2. ***End Gap:*** *The end gap clearance when the ring is compressed to the bore diameter*
3. ***Inside Diameter:*** *The inside diameter of the ring at bore diameter*
4. ***Outside Diameter:*** *The outside diameter of the ring at bore diameter*
5. ***Ring Axial Sides:*** *The top and bottom surfaces of the ring*
6. ***Torsional Twist:*** *The installed position of the ring due to a chamfered area on either ring side that helps the ring cross-seal*
7. ***Ring Face:*** *The section of the ring that contacts the cylinder wall*
8. ***Back Clearance:*** *Distance between the inside diameter of the ring and the back of the ring groove when the ring is flush with the ring land*
9. ***Axial Clearance:*** *The distance between the ring axial height and the piston ring groove width*
10. ***Radial Width:*** *The width of the ring in the radial direction*
11. ***Axial Height:*** *The height or the thickness of the ring in the axial direction*

RING TERMINOLOGY

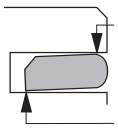
D-wall: *A specification established by the Society of Automotive Engineers (S.A.E.) that dictates the radial width of a standard automotive piston ring by the use of the following formula; Bore diameter ÷ 22 = radial thickness. (4.000" ÷ 22=.182")*



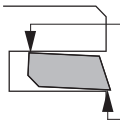
Back-cut: *Used to describe a compression ring that has less than S.A.E. standard D-Wall radial thickness. Back-cutting is used to reduce natural radial ring tension. In applications with tight top ring land to piston intake valve pocket clearance problems, back cut rings allow the rings to be moved up toward the top of the piston which improves combustion efficency and provides more power.*



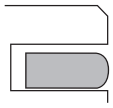
Positive Twist: *An asymmetric change in the ring cross section that causes it to twist in an upward direction (towards the piston crown) aiding ring sealing of the top and bottom of the ring groove. Positive twist is used only on top compression rings.*



Reverse Twist: *An asymmetric change in the ring cross section causing the ring to twist downward (towards the piston skirt) that enhances the second compression ring's oil scraping properties.*

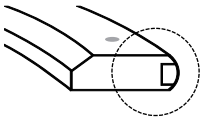


Neutral: *A term used to describe a piston ring that has no torsional bias or twist.*

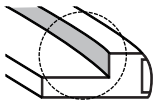


RING FACE SHAPES

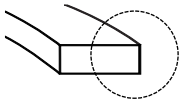
Barrel Face: *Term used to describe the curved section of the ring that is in contact with the cylinder wall. Used only on top compression rings.*



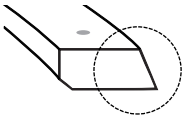
Dykes: *A step cut into a top compression ring that helps to direct gas pressure to the shaded area on the back side of the ring, improving ring to cylinder wall seal.*



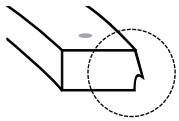
Flat Face: *Simple flat rectanglular shape*

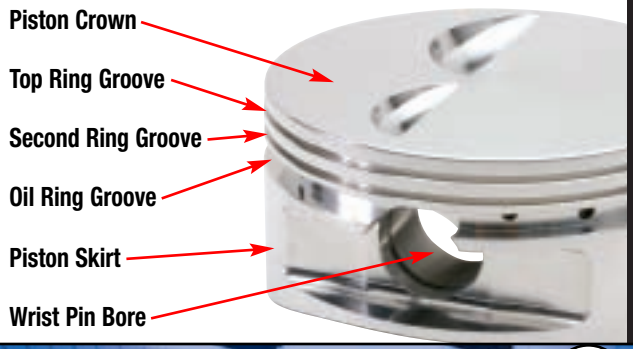


Taper Face: *Describes the angled face of the second compression ring that scrapes excess oil from the cylinder wall surface. Used only on second rings.*



Napier: *A special hooked shape found on the underside of some second compression rings used to more efficiently remove excess oil from the cylinder walls.*





RING FUNCTIONS

Piston rings serve three basic functions in an automotive engine, gas sealing, heat transfer, and oil control. The primary duty of the top compression ring is to provide a seal that prevents combustion gas or pressure from bypassing the piston. This is achieved by maintaining contact with the cylinder wall at all times. The second compression ring also assists the top ring in its sealing function, although its main purpose is to provide a secondary form of oil control for oil that has bypassed the oil ring (fig. 1). Secondly, both compression rings and the oil control ring transfer the heat of combustion from the piston to the cylinder wall where it is then transferred to the cooling system (fig. 2). Lastly, the second compression and oil ring also serve as an oil control system regulating the film of oil on the cylinder wall. As the piston moves downward, the sharp edges of the second ring and the two rails scrape the top layer of oil off the cylinder wall, leaving only a very thin layer behind. The excess oil is discharged by three methods. Most simply gets scraped by the lower oil ring rail back down into the oil pan. Some excess gets forced into "drain back" holes in the oil ring groove, to the interior of the piston and then back to the oil pan. If the piston has "pressurized pin oilers", the remainder gets forced into holes in the oil ring groove through the pin bosses into the wrist pin reservoir, then directly onto the wrist pin.

FIGURE 1 GAS SEALING

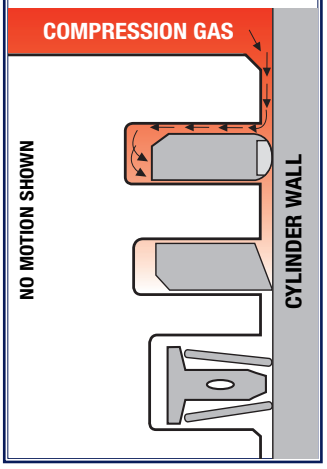
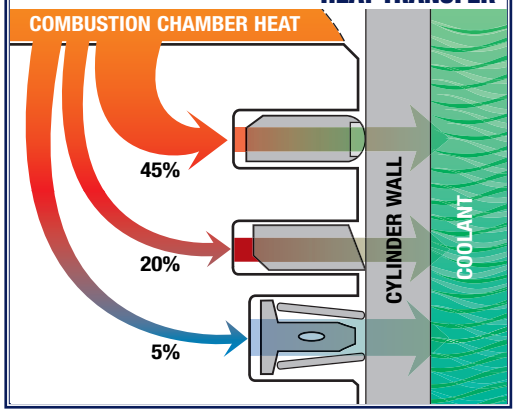
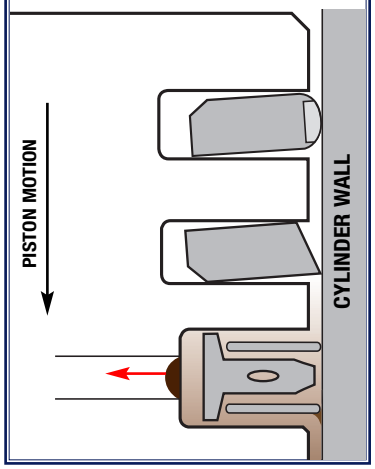


FIGURE 2 HEAT TRANSFER



RINGS TRANSFER 70% OF COMBUSTION CHAMBER HEAT INTO THE CYLINDER WALL
(All figures shown are close approximations)

FIGURE 3 OIL CONTROL



TOP RINGS

The top compression ring is responsible for creating a seal with the cylinder wall to maintain combustion chamber pressure. The top ring also transfers up to 45% of the heat generated by the combustion process to the cylinder wall en route to the engine cooling system. JE Pro Seal top compression rings are available in a variety of shapes (see illustrations below), sizes and material types that allow you to choose the most efficient and economical ring to suit your application.

Most JE Pro Seal top compression rings have a barrel face with a positive torsional twist. This twisted configuration takes up the axial clearance in the groove, providing a better cross sealing.

During most of the intake stroke, the piston ring twists upward because of the chamfer while the barrel face utilizes its lower half to maintain contact with the cylinder wall (fig. 4).

On the compression and exhaust strokes, the ring may sit fllat on the groove surface (fig. 6) or be twisted upwards (fig. 4) or downwards (fig. 5), depending on the size of the chamfer, inertia forces at top and bottom of stroke and combustion chamber pressures (most notable when piston is near top dead center.

A third position is achieved during the power/combustion stroke. Although inertial forces direct the ring upward, combustion pressure forces the ring to the bottom of the ring groove and forward against the cylinder wall.

FIGURE 4

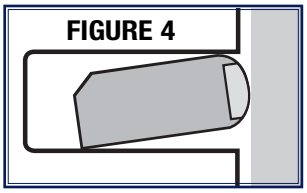


FIGURE 5

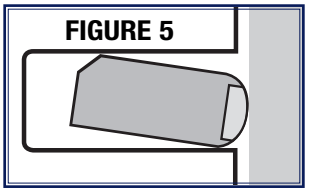
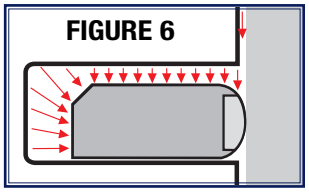


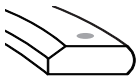
FIGURE 6



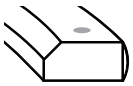
Illustrations are exagerated for demonstration purposes

TOP RING SHAPES AND TYPES

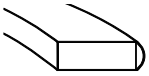
Barrel Face Torsional Plasma Moly Inlay



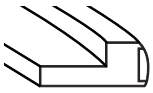
Barrel Face Torsional HNS and Tool Steel



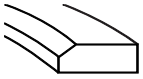
Barrel Face Torsional Chrome



Barrel Face Chrome Nitride or Moly



Dykes

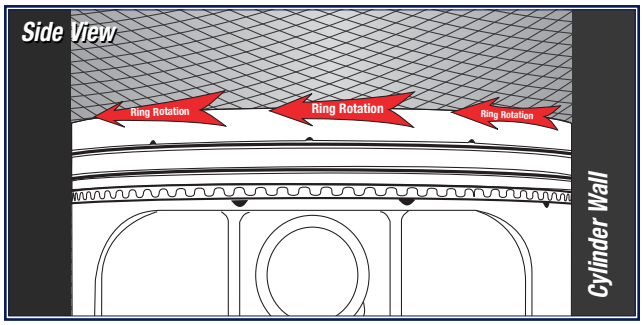


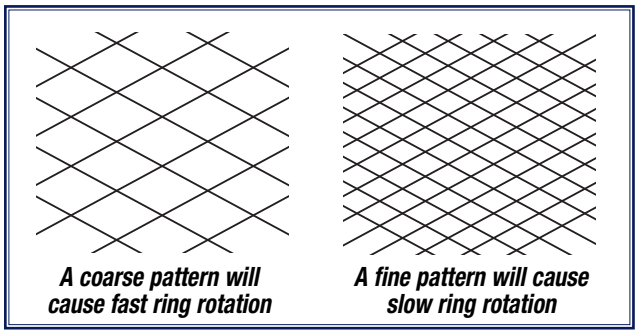
Flat Face Torsional

TOP RINGS CONTINUED...

RING ROTATION

Ring rotation is critical for the distribution of heat to lower temperature sections of the piston and the cylinder wall. If the rings were stationary in the ring groove, the piston and cylinder wall would experience excessive heat in localized areas. This condition can cause scuffing of the cylinder wall, premature wear, piston to ring microwelding and possibly ring butting. The rate at which the ring rotates is determined by the piston rods, friction between the ring sides, bore finish, and cross hatch angle.





GAS PORTING

Combustion pressure can be directed behind the top ring with the addition of vertical or lateral gas ports on the piston. Vertical gas ports are small holes drilled into the top (or deck side) of the piston that lead to the back of the top ring groove. These holes allow combustion pressure to enter the top ring groove directly behind the ring on the combustion stroke forcing the ring face against the cylinder wall for maximum seal (fig. 7). Lateral gas ports perform the same function by providing a pathway for the combustion pressure to enter the ring groove with less interference (fig. 8). Gas ports are extremely beneficial when using reduced radial width and low tension top rings. They aid in ring seal on the combustion stroke while reducing friction and drag on the remaining strokes that can rob the engine of horsepower. As a general rule, vertical gas ports are mainly used in drag race applications while lateral gas ports are used for circle track and endurance racing (vertical gas ports tend to plug with carbon more than lateral gas ports and are usually application specific).

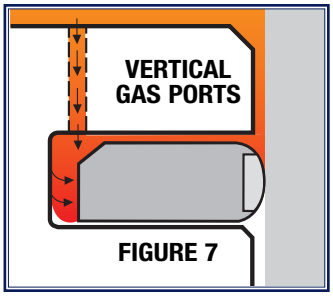


FIGURE 7

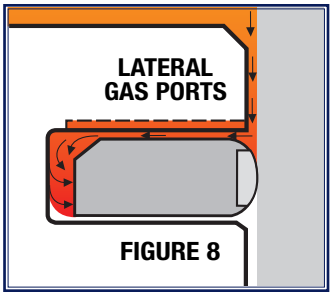
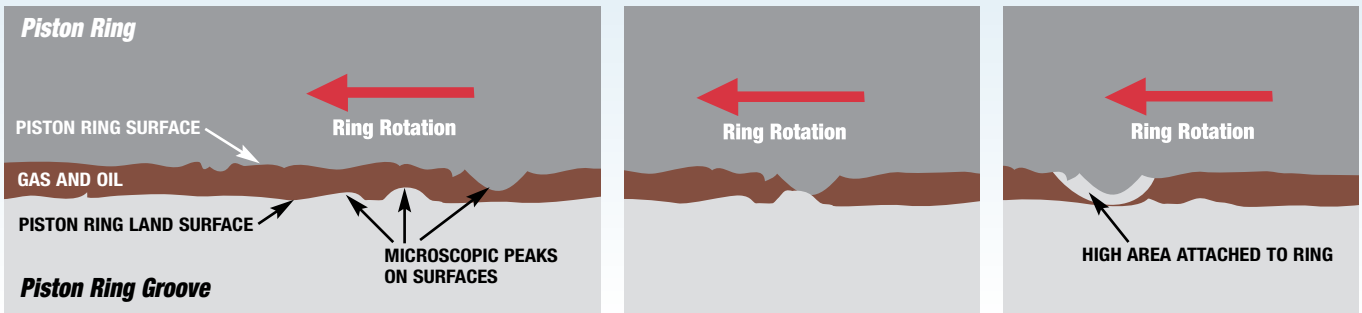


FIGURE 8

WHAT IS MICROWELDING?

Micro-welding occurs when piston material from the ring groove transfers onto the axial side surface of the ring itself. As a result, ring rotation begins to deteriorate followed by increased blow-by due to the ring losing bore conformity and torsional twist. As material transfer continues, axial clearance disappears and the ring will eventually become lodged in place, having welded itself to the groove. Micro-welding is typically seen only on top rings and is most common where the axial clearance between the ring and its groove become too tight for the conditions or application. In order to help alleviate this problem, JE offers our exclusive Ultra Groove machining process to vastly reduce the microscopic waves and bumps left by conventional machining methods. To further improve ring groove quality, JE offers hard anodizing of the piston top ring groove, which creates a very hard, durable contact surface. When combined with our UFR or CFR rings, axial clearances can be greatly reduced while also significantly reducing the possibility of micro-welding.



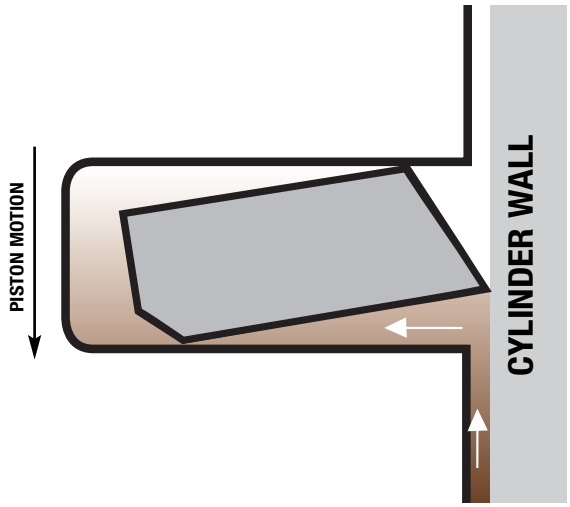
SCALE OF HIGH AREA ON SURFACE IS MICRO INCHES

SECOND RINGS

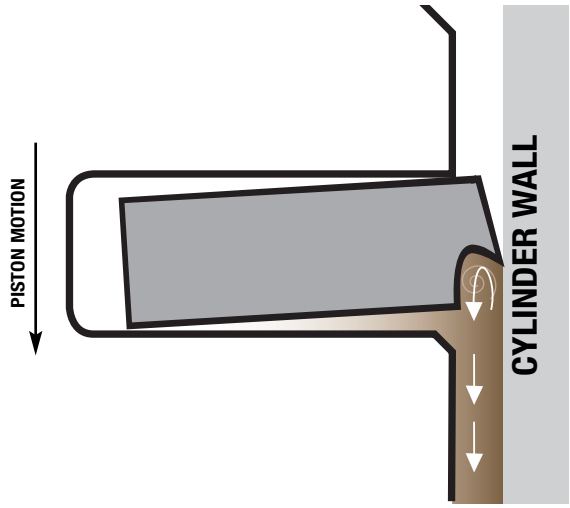
The most conventional second ring shape is a taper faced reverse-torsional twist. The tapered face of the ring acts as a wiper that scrapes excess oil from the cylinder wall (fig. 1). It is important to prevent oil from entering the combustion process as this can lead to detonation which in turn increases carbon build up and raises both piston and oil temperatures. The chamfer machined in the back, under-side of the ring produces a twist in the ring, which enhances its cross-sealing properties.

Second rings are also available from JE Pro Seal in the Napier or "hook" style ring face. This design is considered superior to a tapered face design as the hook shape actually channels oil flow back down the cylinder wall and away from the underside of the ring (fig. 2).

TAPER FACE RING FIGURE 1



NAPIER FACE RING FIGURE 2



OIL RINGS

The function of an oil ring is to remove oil from the cylinder wall. In most cases, an oil ring is actually three pieces, consisting of two rails with an expander in between them. As an engine's rotating assembly continuously slings oil and creates a heavy oil mist within the crank case, oil accumulates on the cylinder walls, crank, rods, and piston skirts. However, the oil film will tend to remain in contact with the cylinder wall as the piston slides across it, so a method of scraping and scavenging this oil is necessary to keep it out of the combustion chamber. While both the oil ring rails and the 2nd ring perform this scraping function, only the oil ring has a method for scavenging this oil. A three-piece mechanism all its own, the oil ring uses piston motion to create a "pumping" action which redirects accumulated oil to drain back holes or wrist pin oiling holes drilled in the piston.

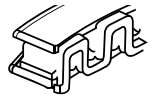
JE Pro Seal oil rings are offered in either high, standard or low tension versions. High and standard tension rings are most commonly used in street/strip wet sump style engines and engines using forced induction or bolt-on power adders. JE Pro Seal is the first to offer standard tension oil rings with a 3mm axial height.

Low tension oil rings are most commonly used in dry sump applications. The advantage of a low tension oil ring is less friction along the cylinder wall, which generally leads to more power. Because the scavenging section of the dry sump system remove so much oil from the crank case and cylinder walls, low tension rings are sufficient to provide proper oil control.

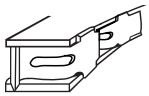
Most JE Pro Seal oil rings are equipped with chrome plated rails (non-chrome plated rails are also available). Titanium Nitride coating (TiN) of oil ring rails is also available as a custom option for any JE Pro Seal Oil ring. This coating provides additional wear resistance for extreme applications, has a very low coefficient of friction, and is compatible with Nikasil bores.

JE Pro Seal Oil Rings are available with two different types of expanders. The "F Type" style expander (fig. 4) is most commonly used in low tension oil rings and features a wave shaped pattern that alternates between the top and bottom oil ring rails. The "S Type" style expander is more common in standard tension oil rings and uses holes in the humps (fig. 4) to provide an oil passageway to the back side of the ring and ultimately out through the oil drain back holes.

FIGURE 4
REAR ISOMETRIC VIEW



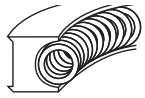
F TYPE
OIL RING



S TYPE
OIL RING

In some instances, specifically in horizontally opposed cylinder orientation, a 2-piece oil ring is preferred. Two-piece oil rings are the original equipment ring for Porsche® and are usually compatible with Nikasil bores. They consist of a cast iron "M-shaped" outer ring with spiral spring spacer inside (fig. 5). JE offers OE replacement ring sets with 2-piece oil rings in popular bore sizes for Porsche and other engines. Please call your JE sales representative for further information.

FIGURE 5
REAR ISOMETRIC VIEW

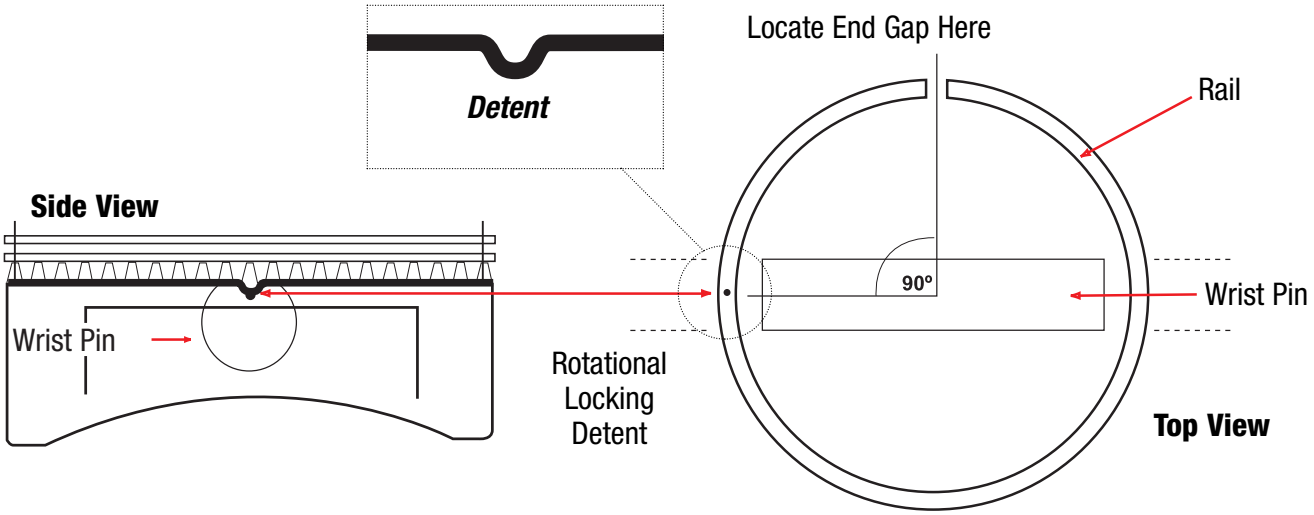


2-PIECE
OIL RING

OIL RAIL SUPPORTS

OIL RING RAIL SUPPORTS

Oil support rails are used when the wrist pin bore of the piston intersects or is machined into the piston oil ring groove. This occurs when a longer rod or stroke creates the necessity for a short compression height piston. The rail supports, when installed, rest on the bottom of the piston oil ring groove. These rails are specifically designed with radial widths that prevent contact with the cylinder wall. Their sole function is to support the oil ring and to prevent oil from escaping through the gap in the lower oil ring land created by the pin bore. This function can be compromised when the oil rail support rotates in the ring groove and allows the rail support gap to align itself with the wrist pin bore opening. In order to prevent this condition, all JE Pro Seal oil rail supports are manufactured with a locking detent that holds the rail support gap 90º from the wrist pin opening (see illustration below). All JE Pro Seal oil rail supports are sold pre-gapped to the bore size listed in the charts below.



To convert Bore Range to metric, multiply bore size by 25.4

Part #	Bore Range	Radial	Part #	Bore Range	Radial	Part #	Bore Range	Radial
3000-122	2.999-3.039	.122	3562-162	3.560-3.622	.162	4125-183	4.120-4.154	.183
3040-122	3.040-3.070	.122	3625-162	3.622-3.680	.162	4155-183	4.155-4.184	.183
3071-122	3.071-3.101	.122	3681-173	3.681-3.711	.173	4185-183	4.185-4.247	.183
3102-122	3.102-3.132	.122	3712-173	3.712-3.747	.173	4250-193	4.248-4.279	.193
3133-122	3.133-3.163	.122	3750-162	3.748-3.809	.162	4280-193	4.280-4.309	.193
3164-122	3.164-3.184	.122	3812-173	3.810-3.874	.173	4310-193	4.310-4.349	.193
3187-132	3.185-3.249	.132	3875-173	3.875-3.904	.173	4350-193	4.350-4.374	.193
3267-122	3.266-3.307	.122	3905-173	3.905-3.934	.173	4375-193	4.375-4.437	.193
3308-122	3.308-3.344	.122	3935-173	3.935-3.959	.173	4440-203	4.438-4.499	.203
3346-122	3.345-3.386	.122	3960-173	3.960-3.998	.173	4500-203	4.500-4.559	.203
3390-122	3.387-3.410	.122	4000-183	3.999-4.029	.183	4562-203	4.560-4.599	.203
3425-122	3.424-3.465	.122	4030-183	4.030-4.059	.183	4600-203	4.600-4.635	.203
3466-122	3.466-3.497	.122	4060-183	4.060-4.079	.183	4675-203	4.675-4.700	.203
3500-142	3.498-3.559	.142	4080-183	4.080-4.119	.183	4800-203	4.800-4.830	.203

REDUCED RADIAL OIL RAIL SUPPORTS FOR METRIC OIL RINGS WITH REDUCED RADIALS NEW!

To convert Bore Range to metric, multiply bore size by 25.4

Part #	Bore Range	Radial	Part #	Bore Range	Radial	Part #	Bore Range	Radial
4000-142	3.999-4.029	.142	4185-142	4.185-4.247	.142	4440-142	4.438-4.499	.142
4030-142	4.030-4.059	.142	4250-142	4.248-4.279	.142	4500-142	4.500-4.559	.142
4060-142	4.060-4.079	.142	4280-142	4.280-4.309	.142	4562-142	4.560-4.599	.142
4080-142	4.080-4.119	.142	4310-142	4.310-4.349	.142	4600-142	4.600-4.635	.142
4125-142	4.120-4.154	.142	4350-142	4.350-4.374	.142	4675-142	4.675-4.700	.142
4155-142	4.155-4.184	.142	4375-142	4.375-4.437	.142	4800-142	4.800-4.830	.142

RING FINISHES AND OPTIONS

ULTRA FINISH RINGS (UFR)

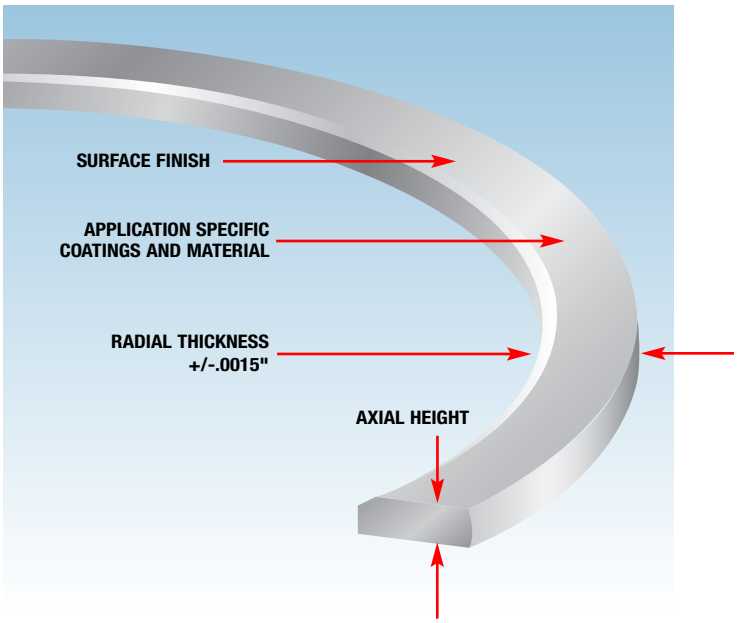
JE Pro Seal Ultra Finish Rings (UFR) are machined to the most exacting tolerances in the industry. All Ultra Finish rings are lapped to within +/-.000050" axial height and precision turned to +/- .0015" radial width. Designed to compliment our Ultra Groove® ring groove process available on JE custom pistons, these rings are used for the most demanding high performance applications that require extremely tight clearances for maximum sealing capabilities. Featuring unprecedented flatness and axial surface finishes less than 4µinRa, the Ultra Finish process is available for all JE Pro Seal rings.

CRITICAL FINISH RINGS (CFR)

JE ProSeal Critical Finish Rings (CFR) present an alternative to Ultra Finish Rings with the same surface finish (< 4µinRa) on lapped top and bottom ring sides as the UFR held to within +/-.00015" axial thickness.

CRITICAL TOLERANCE RINGS (CTR)

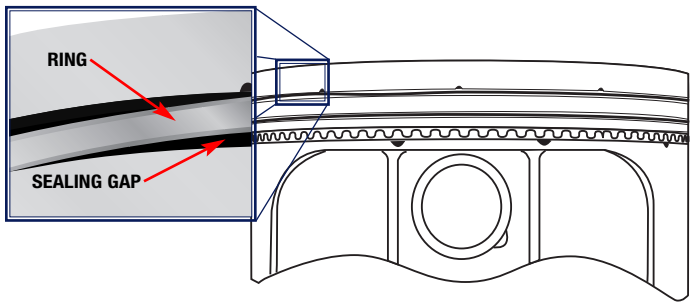
JE Pro Seal Critical Tolerance Rings (CTR) are held to +/-.00015" axial height and an industry standard base metal surface finish (<25µinRa). An alternative to our Critical Finish rings, JE Pro Seal CTR's are available in many of our most popular ring types. Call your JE Pro Seal sales representative for availability.



Ring Process	Axial Height	Surface Finish
UFR	+/-0.000050"	<4µinRa
CFR	+/-0.00015"	<4µinRa
CTR	+/-0.00015"	Standard

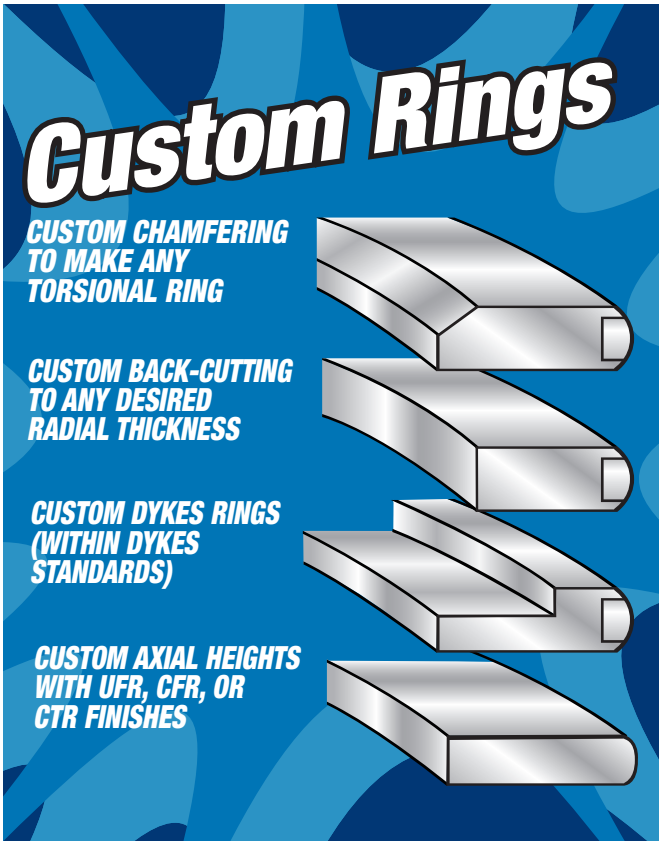
WHY RING FLATNESS IS IMPORTANT

Uniform ring flatness allows tighter ring to groove clearance, thus promoting better sealing properties. An uneven ring axial height allows combustion gases to enter the gaps between the ring and ring groove, increasing the chances of higher blowby and oil consumption.



CUSTOM RING OPTIONS

JE Pro Seal's ring manufacturing capabilities can provide custom ring solutions to your specific high performance needs. Our Custom Ring Department is armed with the latest equipment for design, manufacturing and analysis. JE Pro Seal offers custom back-cutting to any desired radial thickness, custom chamfering to convert any neutral ring into a torsional ring. JE Pro Seal can also manufacture custom Dykes rings, and machine special axial heights on any ring. If you can't find the ring you're looking for, give your JE sales representative a call.



RING FINISHES AND OPTIONS

RING FACE COATINGS

JE offers a variety of ring face coatings specifically designed for individual operating requirements. The main types are Plasma Moly, CrN (Chromium Nitride), TiN (Titanium Nitride), and base ring material gas nitriding. These face coatings provide a wear and scuff resistant face against the cylinder wall while also providing a very low coefficient of friction. These coatings are applied using PVD and PACVD (Plasma Assisted Chemical Vapor Deposition) processes and are the premier ring coatings available today. Contact your JE Pro Seal sales representative for more details.

CrN (Chromium Nitride) *– A thin film applied to the ring face which provides a moderate level of surface hardness with an extremely low coefficient of friction.*

Gas Nitrided *– A process used to harden the perimeter of a ring where nitrogen atoms penetrate the base material and form an extremely hard outer layer that provides excellent wear and scuff resistance.*

TiN (Titanium Nitride) *– Similar to CrN coating; TiN is generally harder than CrN but w/ similar wear resistance.*

Plasma-Moly *– Is a face coating which provides a hard, wear resistant surface on a barrel shaped ring face that is able to maintain a very low coefficient of friction. The process involves spraying an alloyed powder that contains various chemistries of Molybdenum, Nickel, Chromium and small amounts of other trace elements, into a small channel on the face of the ring by forcing the powder through an electrical arc in the presence of compressed Argon or other gases. Under extreme heat, this powder turns into molten droplets and is carried to the ring on a stream of shielding gas, filling the inlay groove, bonding to the face of the ring.*

RING AXIAL SIDE COATINGS

All non-stainless steel JE Pro Seal rings have a corrosive resistant coating that is specifically designed to enhance oil retention and to help prevent scuffing during early engine operation or "break in". Plasma Moly filled ductile iron rings are coated with a manganese phosphate while steel rings are coated with an iron oxide compound known as Ferrox. Both of these coatings prevent rust from accumulating while the rings are in the package and provide a porous outer layer that retains oil upon installation, to insure proper lubrication at engine start up.

RING MATERIALS

Most U.S. domestic original equipment engines use cast iron top and second compression rings. This material is fine for low rpm applications with a relatively low compression ratio.

JE Pro Seal rings are constructed from either ductile iron, steel, or stainless steel for greater strength and elasticity. Ductile iron is a very versatile material that is good for most high performance applications. These rings are available with either a plasma moly inlay face or hardened for nitrous, turbo and blown applications.

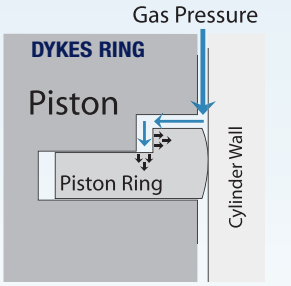
Steel and stainless steel rings are better suited for extremely high rpm applications. The higher tensile strength of steel also helps it to withstand the added abuse of high power output engines. Both steel and stainless steel are commonly used in applications where extremely thin and narrow rings are required.

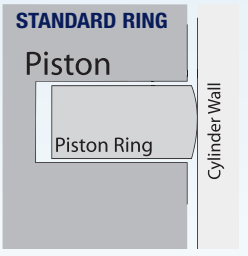
Use the performance matrix on page 16 to help determine which ring material and style suits your racing engine or call your JE Pro Seal sales representative.

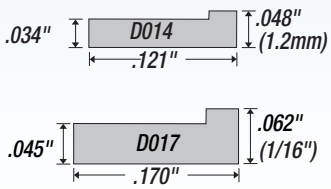
ABOUT DYKES RINGS

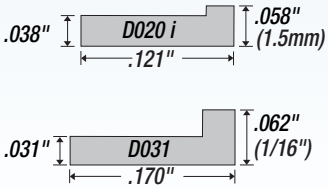
If you want maximum ring seal for your drag racing application, talk to your JE salesman about Dykes Rings. On the power and compression strokes of your engine, the gas pressure loads the ring against the cylinder wall and the bottom of the ring groove to create a better seal for increased horsepower. On the remaining two strokes, the ring relaxes giving you the reduced pressure created by the ring's natural radial tension thus reducing frictional drag.

The four most common types of Dyke cut top rings are the D017, the D031, the D014 and the D020 i. All D017 and D031 rings have an axial height of 1/16". The D014 and the D020i are metric rings and have axial heights of 1.2mm and 1.5mm respectively. Both the D017 and the D014 are for use on forced induction and nitrous applications. Although the D020 i can be used on forced induction engines as well, it is generally used on naturally aspirated engines. The D031 ring is for use only on naturally aspirated engines..





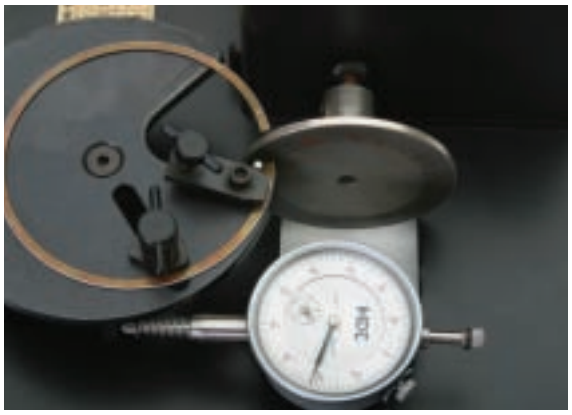




RING INSTALLATION

RING GAP FILING PROCEDURES

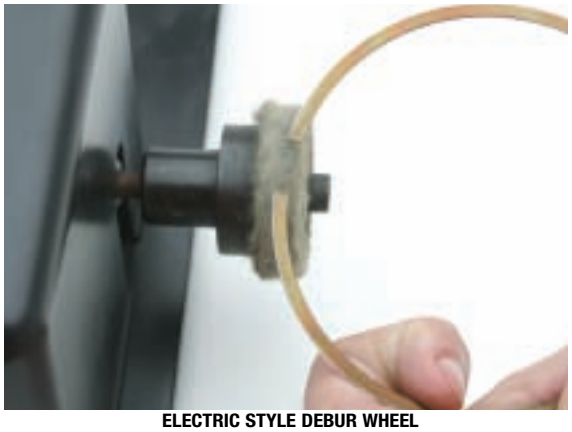
- *Check the ring gap chart (below) to determine the appropriate end gap for your bore size and application*
- *The prefered method of ring grinding is to use a quality electric ring grinding machine. Where costs are a consideration the use of a manual hand crank style grinder works*
- *Always file from the ring face towards the inside diameter of the ring to avoid chipping and/or marring the face coating*
- *File only one end of the ring, using the unfiled end as a reference point*
- *Debur all gap edges with a sort stone or Cratex type product*



ELECTRIC RING GRINDER

RING GAP CHART	Minimum Gap Per Inch of Bore		
	Top Ring	2nd Ring	Oil Ring Rail
Application	***Bore x***	***Bore x***	***Min. Gap***
High-Perf. Street/Strip	*.0045"*	*.0050"*	*.015"*
Street Moderate Turbo/Nitrous	*.0050"*	*.0055"*	*.015"*
Late Model Stock	*.0050"*	*.0053"*	*.015"*
Circle Track/Drag Race	*.0055"*	*.0057"*	*.015"*
Nitrous Race Only	*.0070"*	*.0073"*	*.015"*
Blown Race Only	*.0060"*	*.0063"*	*.015"*

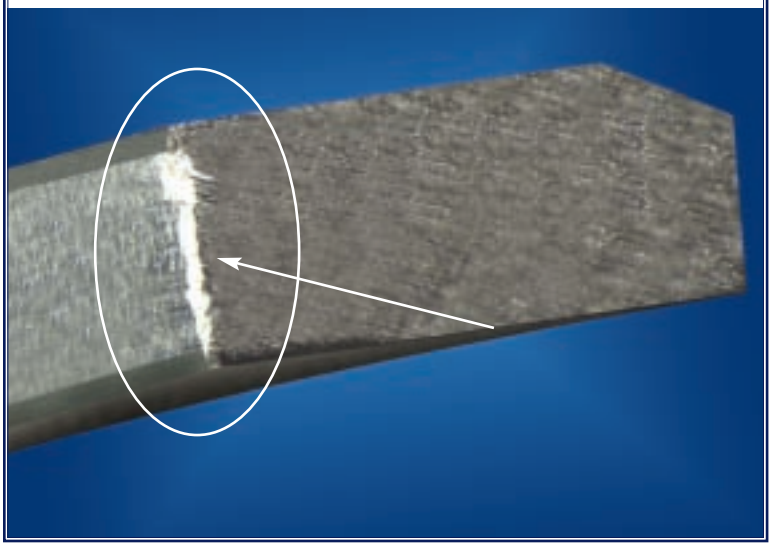
Note: *The chart above is a general end gaps guideline. Each ring should be fitted to the particular cylinder in which they are to be installed. A difference in bore diameter of .001" should increase the ring gap by a factor of pi (3.1416, example: .001 x 3.1416 = .00031). The gap on the second ring should always be larger than the top ring end gap, this will help to reduce top ring flutter.*

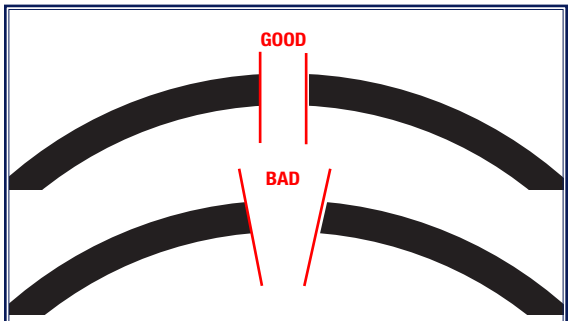


ELECTRIC STYLE DEBUR WHEEL

MANUAL STYLE RING GRINDER

Magnified photo of incorrectly ground ring end gap. Please use extreme caution when hand grinding, it is possible to chip/flake the plasma moly out of the inlay groove.



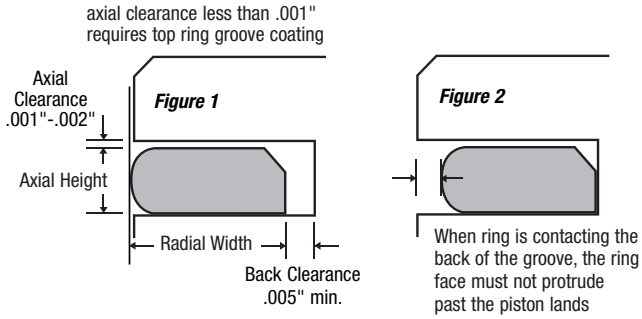


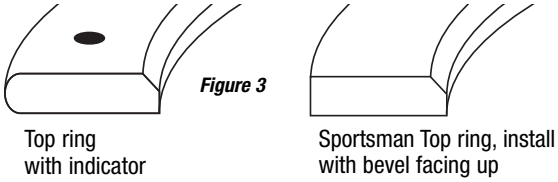
USE EXTREME CAUTION WHEN GRINDING RING END GAPS, TOO COARSE OF A STONE OR CUTTER CAN REMOVE MATERIAL TOO QUICKLY. BE SURE TO KEEP RING END GAPS SQUARE.

RING INSTALLATION

RING INSTALLATION

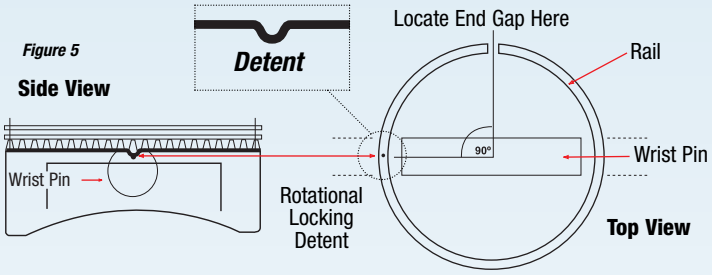
- ***Check each ring in its corresponding piston groove to ensure proper axial and radial clearance (fig. 1 & 2)***
- ***Always install Pro Seal rings with indicator marks facing up (Sportsman rings without indicator should be installed as shown in fig. 3)***
- ***Always use a ring expander when installing rings (see photos)***
- ***Spiraling rings into ring grooves can damage both the ring and piston ring groove***
- ***Lubricate new rings with light assembly oil or motor oil before installation***
- ***Stagger end gaps on each compression ring, oil rails and expanders (fig. 4)***





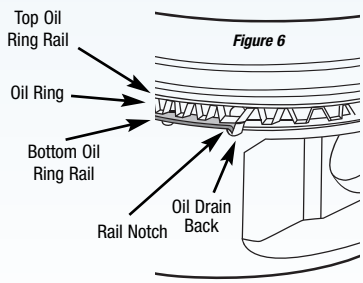
RAIL SUPPORTS

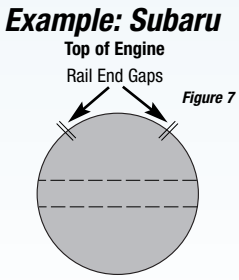
JE Pro Seal rail supports feature a special locking detent to prevent rotation of the oil rail. This detent should be positioned directly in line with the wrist pin (fig. 5). Keep the rail support gap 90º from the wrist pin bore opening.

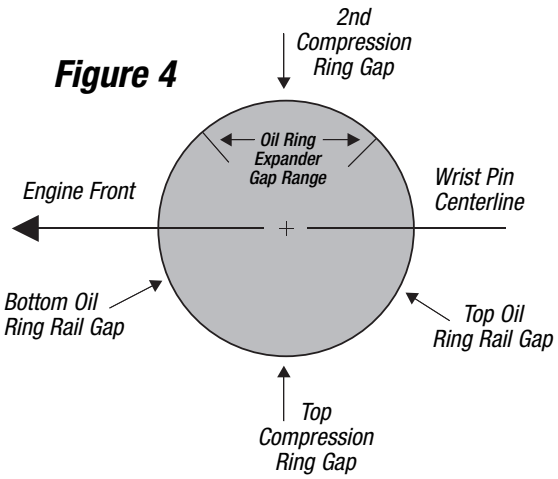


RING SETS CONTAINING OIL RAILS WITH A TAB

When installed in a horizontally opposed engine, rail gaps should be installed as shown below (fig. 7). The rail tab must be installed below the oil ring expander with the tab facing toward the bottom of the ring groove extending into the split oil drain back hole (fig. 6). Use caution to not install the rail tab into the wrist pin oil hole.







BORING & HONING INSTRUCTIONS

Adherence to proper boring and honing procedure is essential to overall ring performance. To ensure that the bore finish will retain an oil film, it is vital that the guidelines listed below are followed for cast iron bores.

- ***Install and torque main bearing caps***
- ***Use torque plates. This simulates the distortion that occurs when the cylinder head is mounted to the block. (hint: After boring and honing leave the torque plates in place and fit/gap the piston rings to their respective cylinders)***
- ***Allow for a minimum of .003" excess material for use as honing stock***
- ***Intermediate hone to within .0005" of finished size with #220-#280 grit stones. (With diamond stones use #280-#400 grit)***
- ***Finish hone with #400 grit stone or higher. (Use #600 grit diamond stone. If using hand operated equipment, set drill speed between 200-450 rpm)***
- ***Finish with an appropriate stone or tool to achieve desired plateau finish (see below)***

SURFACE FINISH

SUNNEN® CK® AND CV®	STONE GRIT SIZE	APPROX. µ RA
EHU-412	150	47-52
EHN-512	220	40-48
JHU-525	220	30-36
JHU-623	280	20-25
JHU-818	400	7-14
C30-C03-81	600	3-5

SAE SPECIFICATIONS

CAST IRON/ CHROME 220-GRIT	MOLLY-FILLED 280 GRIT	MOLLY-FILLED 400-GRIT
70-Grit to -.003"	70 Grit to -.003"	70 Grit to -.003"
220-Grit to Size	220-Grit to -.001"	220-Grit to -.0015"
	280-Grit to Size	280-Grit to -.0005"
		400-Grit to Size

WHY A PLATEAU FINISH?

*Plateau honing is the popular name for the process that replicates the cylinder bore surface finish normally produced by the rings after they have worn down the surface peaks during "break in". This technique produces flat areas or plateaus (**Rk**) on the cylinder wall after finish honing by using a very fine grit stone or a PHT type brush tool to remove the peaks (**Rpk**) from the surface. This lowers the overall roughness average (**Ra**) while maintaining valley depth (**Rvk**) in the cross-hatch pattern of the cylinder wall. A high Rvk value is very desirable for its oil retention qualities and will substantially reduce "break in" time and increase ring life.*

Ra (Roughness average) = *Used to describe surface roughness as an average between the peaks and valleys that exist in a finish over a specified area, usually microinches*

Rpk (Peaks) = *Average peak height*

Rvk (Valleys) = *Average valley depth*

Cross Hatch = *The pattern of intersecting parallel lines left after finish honing operations are completed. The smaller the intersecting angle, the larger the area (Rk) between the hone marks*

EXAMPLE OF PLATEAU FINISHING

		SURFACE FINISH µRA
ORIGINAL BORE SIZE:	4.000"	
OVERSIZE:	0.030"	
FINISH SIZE:	4.030"	
ROUGH-TO-SIZE:	4.0250"	75-98
FIRST FINISH:	4.0290"	30-36
SECOND FINISH:	4.0295"	20-25
THIRD FINISH:	4.0300"	7-14

SURFACE FINISH AFTER DIAMOND HONING FOLLOWED BY PLATEAU HONING WITH PLATEAU HONING TOOL

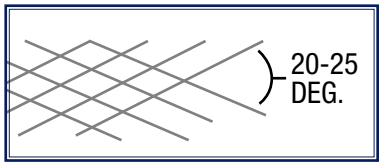
SURFACE FINISH AFTER DIAMOND HONING WITH 220 GRIT STONES

Photos courtesy of Sunnen Products Co.

CROSS HATCH PATTERN

Maintaining the proper cross hatch angle is important for two reasons; 1. Oil retention on the cylinder wall and 2. The rate of ring rotation. Excessively shallow cross hatch angles can hinder or slow down the necessary ring rotation that allows dissipation of heat. It can also leave too much oil on the cylinder wall allowing the rings to skate over the surface leading to excess oil consumption. Too steep of a cross hatch angle may not provide adequate oil retention and can result in dry starts and premature ring wear. A steep pattern angle can also create excessive ring rotation that will accelerate ring and piston ring groove wear.

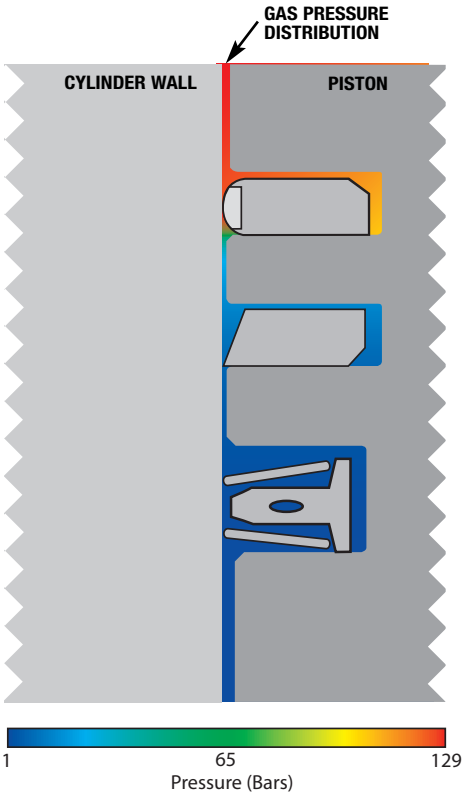
EXAMPLE: HOW TO MEASURE CROSS HATCH ANGLE



DESIGN AND ANALYSIS

RING PROPERTY & PISTON DESIGN ANALYSIS

Determining how well a ring will function on a particular piston design is crucial to optimizing the horsepower output of your engine. JE uses Ricardo RingPak, the most advanced ring analysis and simulation software available, to simulate ring, piston, and cylinder wall interaction as a system. The software creates models of friction, wear, lubrication, blowby, and oil consumption within this system and allows JE to analyze in great detail both individual ring performance and overall piston design. Once the piston ring and land information is entered, animated results of such phenomena as gas pressure distribution and lubrication conditions are displayed. The careful analysis of these results can be used to properly select your rings to reduce excessive oil consumption (which may lead to detonation), blowby, and horsepower robbing friction. JE utilizes this new technology to achieve optimal ring performance and to further enhance our piston designs by using specially developed ring characteristics.



RESULTS ANIMATION OF THE INSTANTANEOUS GAS PRESSURE DISTRIBUTION

HOW TO USE THIS CATALOG

This JE Pro Seal Ring catalog has been divided into three different sections for ease of reference and convenience. The three sections are separated in the following manner:

Rings Listed by Series (pages 19-31) – *a legend has been provided on page 18 along with an accompanying performance matrix grid to assist you in determining the appropriate ring for your application. This section also features a complete breakdown of the ring set numbers into individual top, second and oil ring part numbers (except sport compact and motorcycle rings which are sold in sets only).*

Rings Listed by Axial Height (pages 33-37) – *In this section all JE Pro Seal ring sets are sorted by axial height then by application type. Domestic automotive rings are listed first, Import automotive second followed lastly by motorcycle ring sets. This listing is for ring sets only.*

Rings Listed by Bore Size (pages 41-45) – *This section contains all JE Pro Seal ring sets including single, four, six and eight cylinder packages in order of bore size. Once again a separate grid has been provided for large and small bore motorcycle ring packages. This listing is also for ring set only.*

TENSION MATRIX

Ring tension is tangential and measured in pounds. The tension matrix is a chart that can show you how oil ring tensions are classified at JE Pistons. To use the matrix, first find the bore size for your application in the left most column, next line up your bore size with the correct axial height. Based on the tension ranges provided you can determine which ring set you need to order.

	Axial 1.5mm - 2.0mm				Axial 2.5mm - 2.8mm - 3.0mm				Axial 1/8" - 4.0mm - 3/16"			
Bore Inches	Ultra Low	Low	Std	High	Ultra Low	Low	Std	High	Ultra Low	Low	Std	High
2.000~	≤ 1.0	1.0-4.0	3.0-7.0	6.0 ≤	≤ 4.0	3.0-7.0	6.0-12.0	11.0 ≤	≤ 8.0	7.0-11.0	10.0-15.0	14.0 ≤
2.250~	≤ 1.5	1.5-4.5	3.5-7.5	6.5 ≤	≤ 4.4	3.4-8.0	6.4-12.4	11.4 ≤	≤ 8.6	7.6-11.6	10.9-16.1	15.1 ≤
2.500~	≤ 2.0	1.9-5.0	4.0-8.2	7.2 ≤	≤ 5.0	4.0-8.6	7.0-13.0	12.0 ≤	≤ 9.0	8.0-12.4	11.7-17.0	16.0 ≤
2.750~	≤ 2.5	2.3-5.5	4.5-8.9	7.9 ≤	≤ 5.6	4.6-9.2	7.6-13.6	12.6 ≤	≤ 9.4	8.4-13.2	12.5-17.9	16.9 ≤
3.000~	≤ 3.0	2.7-6.0	5.0-9.6	8.6 ≤	≤ 6.2	5.2-9.8	8.2-14.2	13.2 ≤	≤ 9.8	8.8-14.0	13.3-18.8	17.8 ≤
3.250~	≤ 3.5	3.1-6.5	5.5-10.3	9.3 ≤	≤ 6.8	5.8-10.4	8.8-14.8	13.8 ≤	≤ 10.2	9.2-14.8	14.1-19.7	18.7 ≤
3.500~	≤ 4.0	3.6-7.0	6.0-11.0	10.0 ≤	≤ 7.4	6.4-11.0	9.4-15.4	14.4 ≤	≤ 10.6	9.6-15.6	14.8-20.6	19.6 ≤
3.750~	≤ 4.5	4.0-7.5	6.5-11.7	10.7 ≤	≤ 8.0	7.0-11.6	10.0-16.0	15.0 ≤	≤ 11.0	10.0-16.4	15.5-21.5	20.5 ≤
4.000~	≤ 5.0	4.4-8.0	7.0-12.3	11.3 ≤	≤ 8.6	7.6-12.2	10.6-16.6	15.6 ≤	≤ 11.4	10.4-17.2	16.2-22.4	21.4 ≤
4.250~	≤ 5.5	4.8-8.5	7.5-13.0	12.0 ≤	≤ 9.2	8.2-12.8	11.2-17.2	16.2 ≤	≤ 11.8	10.8-18.0	16.9-23.3	22.3 ≤
4.500~	≤ 6.0	5.2-9.0	8.0-13.6	12.6 ≤	≤ 9.8	8.8-13.2	11.8-17.8	16.8 ≤	≤ 12.2	11.2-18.8	17.6-24.2	23.2 ≤
4.750~	≤ 6.5	5.6-9.5	8.5-14.3	13.3 ≤	≤ 10.4	9.4-13.6	12.4-18.4	17.4 ≤	≤ 12.6	11.6-19.4	18.3-25.1	24.1 ≤
5.000~	≤ 7.0	6.0-10.0	9.0-15.0	14.0 ≤	≤ 11.0	10.0-14.0	13.0-19.0	18.0 ≤	≤ 13.0	12.0-20.0	19.0-26.0	25.0 ≤

PERFORMANCE MATRIX

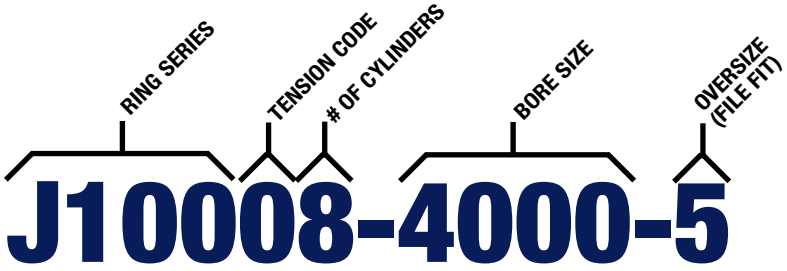
Use the performance/application matrix below to assist in selecting the ring type appropriate for your application. The installation/application column lists a variety of racing series and/or types with the corresponding ring type highlighted to the right. Color-coding has been used to indicate the proper application for each ring type listed for that series or usage/engine type. Blue indicates heavy use; red indicates moderate use, and gray, infrequent use. If there is no color block associated with the ring type then it is usually not recommended for that application.

APPLICATION / RING TYPE	ULTRA FINISH	CRITCAL TOLERANCE	CUSTOM BACKCUT	STEEL PLASMA MOLY	HARDENED DUCTILE IRON DYKES CUT	HARDENED DUCTILE IRON	STEEL GAS NITRIDED	STEEL CHROME FACE	PLASMA MOLY BACKCUT	PLASMA MOLY	PLASMA MOLY SPORTSMAN
NASCAR CUP/BUSCH/IRL											
ARCA, ASA, WOO SPRINT CARS											
DIRT LATE MODEL											
LIMITED SPRINT, OVAL DIRT TRACK											
NHRA PRO STOCK											
NHRA COMP ELIMINATOR											
IMPORT DRAG, NMRA, NMCA											
12/24 HR ENDURANCE											
NHRA SUPER STOCK											
HIGH PERFORMANCE MARINE											
HEAVY DUTY OFF ROAD											
HIGH PERFORMANCE STREET/STRIP											
MID PERFORMANCE STREET/STRIP											
SPORTSMAN ENTHUSIAST											
O.E.M./DAILY USE											
	ULTRA/CRITICAL FINISH	CRITCAL TOLERANCE	CUSTOM BACKCUT	SERIES 750	SERIES 880H	SERIES 800-870	SERIES JG	SERIES JC, JXC	SERIES 600-690, 700-770, 900-960	SERIES 100-500	SERIES S100S

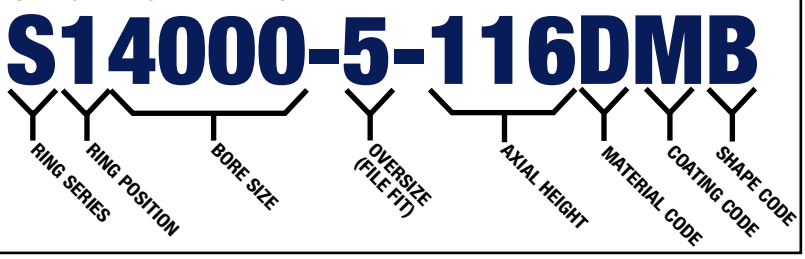
- Widely used in this category
- Good for some applications
- Infrequently used in this category
- Cost/performance prohibitive for this category

PART NUMBER LEGEND

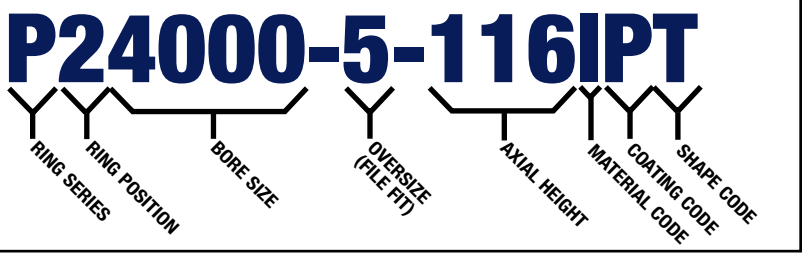
RING SERIES PART NUMBER BREAKDOWN



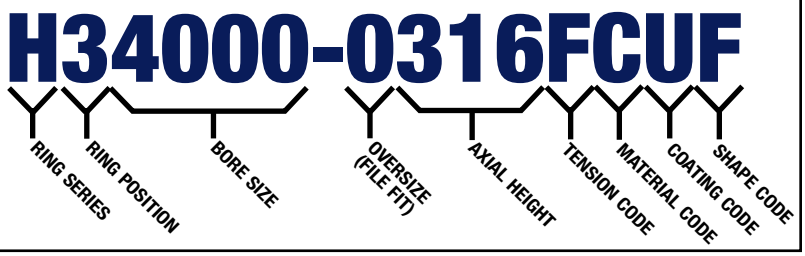
TOP RING PART NUMBER BREAKDOWN



SECOND RING PART NUMBER BREAKDOWN



OIL RING PART NUMBER BREAKDOWN



OIL RING TENSION CODE LEGEND

Code	Oil Tension in Pounds	Code	Oil Tension in Pounds
A	1-2	J	17-18
B	3-4	K	19-20
C	5-6	L	21-22
D	7-8	M	23-24
E	9-10	N	25-26
F	11-12	P	27-28
G	13-14	Q	29-30
H	15-16		

SHAPE CODES (OIL RINGS)

F	Flexvent
P	2 Piece
S	SS50U Style
U	U-flex

RING SET TENSION CODES

U	Ultra Low Tension
O	Low Tension
L	Low Tension
F	Standard Tension
S	Standard Tension
H	High Tension

MATERIAL CODES

C	Carbon Steel
D	Ductile Iron
H	Hard Ductile Iron
I	Iron
S	Stainless Steel

COATING CODES

D	Composite Nitride
E	Moly Fill
F	Ferroxide
G	Titan Nitride
M	Plasma Moly
N	Nitride
P	Phosphate
U	Chrome

SHAPE CODES (TOP AND 2ND RINGS)

A	Taper Face, Back Cut, Nuetral
B	Barrel Face, D-wall, Torsional
C	Taper Face, Back Cut, Reverse Torsional
D	Dykes
E	Napier, Back Cut, Nuetral
F	Full Seal
G	Gapless®
H	Barrel Face, D-wall, Nuetral
J	Taper Face, D-wall, Nuetral
K	Flat Face, Torsional
R	Barrel Face, Back Cut, Torsional
S	Barrel Face, Back Cut, Nuetral
T	Taper Face, D-wall, Reverse Torsional

PART NUMBER LEGEND

PRO *STEEL* PLASMA MOLY

J680	1.5mm	CMR	1.5mm	IPT	3mm	CUF
J750	1.2mm	CMR	1.5mm	IPE	3mm	CUF

"HNS" HARDENED NITROUS SERIES

J820	1/16	HPB	1/16	IPT	3/16	CUF/S
J840	.043	HPB	1/16	IPT	3/16	CUF/S
J860	.043	HPR	1/16	IPT	3/16	CUF/S
J870	.043	HPR	.043	DPC	3/16	CUS
J890	D017	HPD	1/16	IPT	3/16	CUF/S

PREMIUM SPORTSMAN SERIES PLASMA MOLY

J100	1/16	DMB	1/16	IPT	3/16	CUF/L/S
J200	.043	DMB	1/16	IPT	3/16	CUF/S
J300	1/16	DMB	1/16	IPT	3mm	CUF
J400	.043	DMB	1/16	IPT	3mm	CUF
J500	1/16	DMB	1/16	IPG	3/16	CUF
J600	1.5mm	DMR	1.5mm	IPC	3mm	CUF
J601	1.5mm	DMR	.043	IPC	3mm	CUF
J610	1.5mm	DMB	1.5mm	IPT	3mm	CUF
J620	1.5mm	DMK	1.5mm	IPT	3mm	CUF
J630	1.5mm	DMK	1.5mm	IPT	4mm	CUF
J640	1.5mm	DMB	1.5mm	IPT	4mm	CUF
J670	1.5mm	CMS	1.5mm	IPT	3mm	CUS
J690	1.5mm	DMR	1.5mm	IPC	3/16	CUF
J700	.043	DMR	.043	IPC	3mm	CUF
J70T	.043	DMR	1.5mm	IPC	3mm	CUF
J711	.043	DMR	1/16	IPT	3/16	CUS
J720	.043	DMR	.043	IPC	3/16	CUF
J730	.043	DMR	.043	IPT	3/16	CUF
J760	.043	DMR	1/16	IPT	3mm	CUF
J770	.043	DMR	.043	IPT	3mm	CUF
J830	2mm	DMK	1.5mm	IPT	4mm	CUF
J850	2mm	DMK	5/64	IPT	3/16	CUF
J880	017	DMD	1/16	IPT	3/16	CUF
J900	1.2mm	SGR	1.5mm	IPC	2.8mm	SNF
J90D	1.2mm	SGR	1.5mm	IPC	2.8mm	SNF
J910	1.2mm	DMR	1.5mm	IPC	3mm	CUF
J911	1.2mm	DMR	.043	IPC	3mm	CUF
J912	1.2mm	CUS	1.5mm	IPC	3mm	CUF
J913	1.2mm	CUS	1.2mm	DPA	3mm	CUF
J920	1.2mm	SDR	1.2mm	DPA	3mm	CUF
J930	1.2mm	DMR	1.2mm	DPA	3mm	CUF
J940	1.2mm	SGR	1.5mm	IPC	3mm	CUF
J950	1.2mm	SGR	1/16	IPT	3m	CUF
J960	1.2mm	DMR	1.5mm	IPC	3/16	CUF

SMALL BORE & SPORT COMPACT RINGS SETS

JXC0	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC00	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC10	1.2, 1.2 ,3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC11	1.5, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC12	1.2, 1.2, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC13	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC14	1.2, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC15	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC16	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC17	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC18	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC19	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd

SMALL BORE & SPORT COMPACT RINGS SETS

JC20	1.5, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC21	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC22	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC23	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC24	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC25	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC26	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC27	1.2, 1.2, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC28	1.2, 1.2, 2.5mm, Steel Chrome Face Top, Premium Iron 2nd
JC29	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC30	1.2, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC40	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC50	1.5, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC60	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC70	1.2, 1.2, 2.5mm, Steel Chrome Face Top, Premium Iron 2nd
JC80	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC90	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JG00	1.2, 1.2, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG10	1.0, 1.2, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG20	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG21	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG22	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG23	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG24	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG25	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG26	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG27	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG28	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG29	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG30	1.2, 1.5, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG60	1.5, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG90	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J640	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J614	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J615	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J616	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J670	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd

SPORTSMAN PLASMA MOLY RING SETS

S100S	1/16, 1/16, 3/16 Ductile Iron, Plasma Moly Top

JE PRO SEAL MOTORCYCLE RINGS

J100K	1/16, 1/16, 4mm Ductile Iron Plasma Moly Top
J100F	1/16, 1/16, 3/16, Std Tension
XA	0.8, 0.8, 1.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
XC	1.0, 1.2, 2.8mm Alloy Steel, Ferrox Coated, Chrome Face Top
XD	1.0, 1.2, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XE	1.0, 1.2, 2.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
XG	1.0, 1.0, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XH	1.2, 1.5, 4mm Alloy Steel, Ferrox Coated, Chrome Face Top
XR	1.0, 1.2, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XS	1.2, 1.5, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XU	0.9, 0.8, 1.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
EK	0.7, 1.2, 2mm Alloy Steel, Flat Face Top
ZV	1.0, 2mm Alloy Steel, Gas Nitrided Flat Face Top (2 ring set)
XJ	1.2, 1.5, 4mm Soft Nitrided, Ductile Iron Top
XK	1.5, 1.5, 2.5mm Ductile Iron Plasma Moly Top
XQ	1.5, 1.5, 3mm Cast Iron Plasma Moly Top

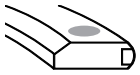
RING SETS BY SERIES

RING SERIES

JE PRO STEEL SERIES

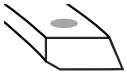
JE PRO STEEL SERIES

TOP RING



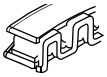
- *Barrel Face Torsional*
- *Plasma Moly*
- *Alloy Steel*

SECOND RING



- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**

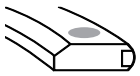


- *Vertical corrugation similar to CP20 and Flexvent*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**Std. Tension**	*Top Ring #*	*Max Radial*	*Second Ring #*	*Max Radial*	*Low Tension Oil Ring #*	*Max Radial*		
1.5, 1.5, 3mm								**SERIES J680**		
3.550	J68008-3550-5		S13550-5-1.5CMR	0.147	S23550-5-1.5IPT	0.162	H33550-03.0ECUF	0.150		
3.570	J68008-3570-5		S13570-5-1.5CMR	0.155	S23570-5-1.5IPT	0.167	H33570-03.0ECUF	0.150		
3.900	J68008-3900-3		S13903-0-1.5CMR	0.145	S23903-0-1.5IPT	0.165	H33905-03.0FCUF	0.150		
3.910	J68008-3910-3		S13913-0-1.5CMR	0.151	S23913-0-1.5IPT	0.168	H33908-03.0ECUF	0.155		

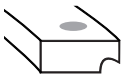
JE PRO STEEL SERIES

TOP RING



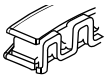
- *Barrel Face Torsional*
- *Plasma Moly*
- *Alloy Steel*

SECOND RING



- *Napier*
- *Phosphate Coated*

***F* TYPE OIL RING**



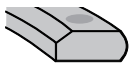
- *Vertical corrugation similar to CP20 and Flexvent*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**Std. Tension**	*Top Ring #*	*Max Radial*	*Second Ring #*	*Max Radial*	*Low Tension Oil Ring #*	*Max Radial*	*Std. Tension Oil Ring #*	*Max Radial*
1.2, 1.5, 3mm								**SERIES J750**		
4.030	J75008-4030-5	J750F8-4030-5	S14030-5-1.2CMR	0.145	S24030-5-1.5IPE	0.170	H34035-03.0ECUF	0.152	J34030-03.0HCUF	.140
4.060	J75008-4060-5	J750F8-4060-5	S14060-5-1.2CMR	0.145	S24060-5-1.5IPE	0.170	H34065-03.0ECUF	0.152	J34060-03.0HCUF	.140
4.125	J75008-4125-5	J750F8-4125-5	S14125-5-1.2CMR	0.145	S24125-5-1.5IPE	0.170	H34125-03.0ECUF	0.150	J34125-03.0HCUF	.155
4.130	J75008-4130-5		S14130-5-1.2CMR	0.145	S24130-5-1.5IPE	0.170	H34130-03.0ECUF	0.152		
4.135	J75008-4135-5	J750F8-4135-5	S14135-5-1.2CMR	0.145	S24135-5-1.5IPE	0.170	H34140-03.0ECUF	0.152	J34135-03.0HCUF	.155
4.145	J75008-4145-5	J750F8-4145-5	S14145-5-1.2CMR	0.145	S24145-5-1.5IPE	0.170	H34150-03.0ECUF	0.152	J34145-03.0HCUF	.155
4.155	J75008-4155-5	J750F8-4155-5	S14155-5-1.2CMR	0.145	S24155-5-1.5IPE	0.170	H34160-03.0ECUF	0.152	J34155-03.0HCUF	.155
4.165	J75008-4165-5	J750F8-4165-5	S14165-5-1.2CMR	0.145	S24165-5-1.5IPE	0.170	H34170-03.0ECUF	0.152	J34165-03.0HCUF	.155
4.170	J75008-4170-5		S14170-5-1.2CMR	0.145	S24175-5-1.5IPE	0.170	H34180-03.0ECUF	0.152		
4.185	J75008-4185-5		S14185-5-1.2CMR	0.145	S24185-5-1.5IPE	0.170	H34187-03.0ECUF	0.152		

HNS - HARDENED NITROUS SERIES

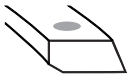
HNS - HARDENED NITROUS SERIES

TOP RING



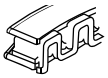
- Barrel Face Torsional
- Hardened Ductile Iron
- Manganese Coated

SECOND RING



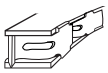
- Taper Face
- Phosphate Coated

***F* TYPE OIL RING**



- Vertical corrugation similar to CP20 and Flexvent

***S* TYPE OIL RING**



- Horizontal corrugation similar to SS50U

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1/16, 1/16, 3/16			**HARDENED DUCTILE IRON**						**SERIES J820**	
4.000	J82008-4000-5	J820F8-4000-5	S14000-5-116HPB	0.187	P24000-5-116IPT	0.187	H34000-0316FCUF	0.150	S34000-0316KCUS	0.190
4.030	J82008-4030-5	J820F8-4030-5	S14030-5-116HPB	0.187	P24030-5-116IPT	0.187	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.040	J82008-4040-5	J820F8-4040-5	S14040-5-116HPB	0.187	P24040-5-116IPT	0.187	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.060	J82008-4060-5	J820F8-4060-5	S14060-5-116HPB	0.187	P24060-5-116IPT	0.187	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.125	J82008-4125-5	J820F8-4125-5	S14125-5-116HPB	0.192	P24125-5-116IPT	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.155	J82008-4155-5	J820F8-4155-5	S14155-5-116HPB	0.192	P24155-5-116IPT	0.193	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.165	J82008-4165-5	J820F8-4165-5	S14165-5-116HPB	0.192	P24165-5-116IPT	0.194	H34165-0316FCUF	0.150	S34165-0316LCUS	0.190
4.185		J820F8-4185-5	S14185-5-116HPB	0.192	S24188-0-116IPT	0.194			S34185-0316KCUS	0.190
4.280	J82008-4280-5	J820F8-4280-5	S14280-5-116HPB	0.198	P24280-5-116IPT	0.198	H34280-0316FCUF	0.150	S34280-0316LCUS	0.190
4.310	J82008-4310-5	J820F8-4310-5	S14310-5-116HPB	0.198	P24310-5-116IPT	0.198	H34310-0316FCUF	0.150	S34310-0316LCUS	0.190
4.500	J82008-4500-5	J820F8-4500-5	S14500-5-116HPB	0.210	P24500-5-116IPT	0.210	H34500-0316FCUF	0.155	S34500-0316LCUS	0.190
4.530	J82008-4530-5	J820F8-4530-5	S14530-5-116HPB	0.210	S24530-5-116IPT	0.210	H34530-0316FCUF	0.150	S34530-0316MCUS	0.190
4.600	J82008-4600-5		S14600-5-116HPB	0.210	P24600-5-116IPT	0.212	S34600-0316HCUS	0.190		
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.560		J820H8-4560-5	S14560-5-116HPB	0.210	P24560-5-116IPT	0.210			S34560-0316MCUS	0.190

.043, 1/16, 3/16			**HARDENED DUCTILE IRON**						**SERIES J840**	
4.030	J84008-4000-5	J840F8-4030-5	S14030-5-043HPB	0.187	P24030-5-116IPT	0.187	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.060	J84008-4060-5	J840F8-4060-5	S14060-5-043HPB	0.187	P24060-5-116IPT	0.187	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.125	J84008-4125-5	J840F8-4125-5	S14125-5-043HPB	0.192	P24125-5-116IPT	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.155	J84008-4155-5	J840F8-4155-5	S14155-5-043HPB	0.192	P24155-5-116IPT	0.193	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.165	J84008-4165-5	J840F8-4165-5	S14165-5-043HPB	0.192	P24165-5-116IPT	0.194	H34165-0316FCUF	0.150	S34165-0316LCUS	0.190
4.185		J840F8-4185-5	S14185-5-043HPB	0.192	S24188-0-116IPT	0.194			S34185-0316KCUS	0.190
4.500	J84008-4500-5	J840F8-4500-5	S14500-5-043HPB	0.210	P24500-5-116IPT	0.210	H34500-0316FCUF	0.155	S34500-0316LCUS	0.190
4.600	J840L8-4600-5		S14600-5-043HPB	0.210	P24600-5-116IPT	0.212	S34600-0316HCUS	0.190		
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.560		J840H8-4560-5	S14560-5-043HPB	0.210	P24560-5-116IPT	0.210			S34560-0316MCUS	0.190
4.600	J840U8-4600-5		S14600-5-043HPB	0.210	P24600-5-116IPT	0.212	H34600-0316FCUF	0.150		

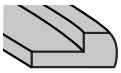
.043, 1/16, 3/16 BACKCUT TOP			**HARDENED DUCTILE IRON**						**SERIES J860**	
4.500	J86008-4500-5	J860F8-4500-5	S14500-5-043HPR	0.175	P24500-5-116IPT	0.210	H34500-0316FCUF	0.155	S34500-0316LCUS	0.190
4.530	J86008-4530-5	J860F8-4530-5	S14530-5-043HPR	0.175	S24530-5-116IPT	0.210	H34530-0316FCUF	0.150	S34530-0316MCUS	0.190
4.560	J86008-4560-5		S14560-5-043HPR	0.175	P24560-5-116IPT	0.210	H34560-0316GCUF	0.150	L	
4.580		J860F8-4580-5	S14580-5-043HPR	0.175	S24580-5-116IPT	0.212			S34580-0316LCUS	0.190
4.600	J860L8-4600-5		S14600-5-043HPR	0.175	P24600-5-116IPT	0.212	S34600-0316HCUS	0.190	L	
4.625		J860F8-4625-5	S14625-5-043HPR	0.175	S24625-5-116IPT	0.215			S34625-0316KCUS	0.190
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.560		J860H8-4560-5	S14560-5-043HPR	0.175	P24560-5-116IPT	0.210			S34560-0316MCUS	0.190
4.600	J860U8-4600-5		S14600-5-043HPR	0.175	P24600-5-116IPT	0.212	H34600-0316FCUF	0.150		
4.610		J860H8-4610-5	S14610-5-043HPR	0.175	S24610-5-116IPT	0.212			S34610-0316NCUS	0.190

.043, .043, 3/16 BACKCUT TOP AND 2ND			**HARDENED DUCTILE IRON**						**SERIES J870**	
4.600	J87008-4600-5		S14600-5-043HPR	0.175	S24600-5-043DPC	0.175	S34600-0316HCUS	0.190		

HNS - HARDENED NITROUS SERIES

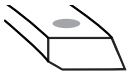
JE PRO SEAL HNS DYKES RINGS

TOP RING



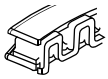
- D017 Dykes
- Plasma Moly

SECOND RING



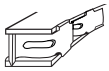
- Taper Face
- Phosphate Coated

F TYPE OIL RING



- Vertical corrugation similar to CP20 and Flexvent

S TYPE OIL RING



- Horizontal corrugation similar to SS50U

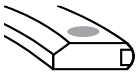
D017 DYKES, 1/16, 3/16 — HARDENED DUCTILE IRON — SERIES J890

Bore	Standard Tension	High Tension	Top Ring #	Max Radial	Second Ring #	Max Radial	Ultra Low Tension Oil Ring #	Max Radial	High Tension Oil Ring #	Max Radial
4.185	J890F8-4185-5	J890H8-4185-5	J14185-5-017HPD	0.173	S24188-0-116IPT	0.194	S34185-0316KCUS	0.190	J34190-0316NCUF	0.197
4.250	J890F8-4250-5	J890H8-4250-5	J14250-5-017HPD	0.173	S24250-5-116IPT	0.198	S34250-0316LCUS	0.190	J34250-0316NCUF	
4.375	J890F8-4375-5	J890H8-4375-5	J14375-5-017HPD	0.173	S24375-5-116IPT	0.204	S34375-0316KCUS	0.190	J34375-0316NCUF	0.197

PREMIUM SPORTSMAN SERIES

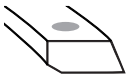
PREMIUM SPORTSMAN SERIES

TOP RING



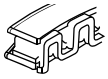
- Barrel Face Torsional
- Plasma Moly

SECOND RING



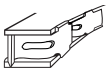
- Taper Face
- Phosphate Coated
- Reverse Torsional

F TYPE OIL RING



- Vertical corrugation similar to CP20 and Flexvent

S TYPE OIL RING



- Horizontal corrugation similar to SS50U

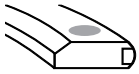
1/16, 1/16, 3/16 — PLASMA MOLY — SERIES J100

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
3.810	J10002-3810-5	J100F2-3810-5	S13810-5-116DMB	0.178	S23810-5-116IPT	0.178	S33810-0316HCUS	0.190	S33810-0316KCUS	0.190
3.810	J10004-3810-5	J100F4-3810-5	S13810-5-116DMB	0.178	S23810-5-116IPT	0.178	S33810-0316HCUS	0.190	S33810-0316KCUS	0.190
3.810	J10006-3810-5	J100F6-3810-5	S13810-5-116DMB	0.178	S23810-5-116IPT	0.178	S33810-0316HCUS	0.190	S33810-0316KCUS	0.190
3.820	J10002-3820-5	J100F2-3820-5	S13820-5-116DMB	0.178	S23820-5-116IPT	0.178	S33820-0316HCUL	0.185	H33820-0316KCUF	0.182
3.820	J10004-3820-5	J100F4-3820-5	S13820-5-116DMB	0.178	S23820-5-116IPT	0.178	S33820-0316HCUL	0.185	H33820-0316KCUF	0.182
3.820	J10006-3820-5	J100F6-3820-5	S13820-5-116DMB	0.178	S23820-5-116IPT	0.178	S33820-0316HCUL	0.185	S33820-0316KCUS	0.190
3.830		J100F2-3830-5	S13830-5-116DMB	0.178	S23830-5-116IPT	0.178			S33830-0316JCUS	0.190
3.830		J100F6-3830-5	S13830-5-116DMB	0.178	S23830-5-116IPT	0.178			S33830-0316JCUS	0.190
4.000	J10008-4000-5	J100F8-4000-5	S14000-5-116DMB	0.187	P24000-5-116IPT	0.187	H34000-0316FCUF	0.150	S34000-0316KCUS	0.190
4.010	J10008-4010-0	J100F8-4010-0	S14010-0-116DMB	0.187	S24010-0-116IPT	0.187	H34010-0316FCUF	0.155	S34000-0316KCUS	0.190
4.020	J10008-4020-5	J100F8-4020-5	S14020-5-116DMB	0.187	P24020-5-116IPT	0.187	H34020-0316FCUF	0.150	S34020-0316KCUS	0.190
4.030	J10008-4030-5	J100F8-4030-5	S14030-5-116DMB	0.187	P24030-5-116IPT	0.187	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.030		J100S8-4030-5	S14030-5-116DMB	0.187	P24030-5-116IPT	0.187			H34030-0316LCUF	0.187
4.040	J10008-4040-5	J100F8-4040-5	S14040-5-116DMB	0.187	P24040-5-116IPT	0.187	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.060	J10008-4060-5	J100F8-4060-5	S14060-5-116DMB	0.187	P24060-5-116IPT	0.187	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.070		J100F8-4070-5	S14070-5-116DMB	0.189	S24070-5-116IPT	0.189			S34070-0316LCUS	0.190
4.080	J10008-4080-5	J100F8-4080-5	S14080-5-116DMB	0.189	S24080-5-116IPT	0.189	H34080-0316FCUF	0.150	S34080-0316KCUS	
4.095	J10008-4095-5		S14095-5-116DMB	0.191	S24095-5-116IPT	0.191	S34095-0316HCUS	0.190		
4.120	J10008-4120-5	J100F8-4120-5	S14120-5-116DMB	0.192	P24125-5-116IPT	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.125	J10008-4125-5	J100F8-4125-5	S14125-5-116DMB	0.192	P24125-5-116IPT	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.130	J10008-4130-5	J100F8-4130-5	S14130-5-116DMB	0.193	P24135-5-116IPT	0.193	H34130-0316FCUF	0.150	S34130-0316LCUS	0.190
4.135	J10008-4135-5	J100F8-4135-5	P14135-5-116DMB	0.193	P24135-5-116IPT	0.193	H34135-0316FCUF	0.150	S34130-0316LCUS	0.190
4.145	J10008-4145-5	J100F8-4145-5	S14145-5-116DMB	0.192	P24145-5-116IPT	0.193	H34145-0316FCUF	0.150	S34145-0316LCUS	0.190
4.155	J10008-4155-5	J100F8-4155-5	S14155-5-116DMB	0.192	P24155-5-116IPT	0.193	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.165	J10008-4165-5	J100F8-4165-5	S14165-5-116DMB	0.194	P24165-5-116IPT	0.194	H34165-0316FCUF	0.150	S34165-0316LCUS	0.190
4.185		J100F8-4185-5	S14185-5-116DMB	0.192	S24188-0-116IPT	0.194			S34185-0316KCUS	0.190
4.210		J100F8-4210-5	S14210-5-116DMB	0.194	S24210-5-116IPT	0.194			H34210-0316LCUF	0.192
4.250	J10008-4250-5	J100F8-4250-5	S14250-5-116DMB	0.198	S24250-5-116IPT	0.198	H34250-0316FCUF	0.150	S34250-0316LCUS	0.190
4.280	J10008-4280-5	J100F8-4280-5	S14280-5-116DMB	0.198	P24280-5-116IPT	0.198	H34280-0316FCUF	0.150	S34280-0316LCUS	0.190
4.310	J10008-4310-5	J100F8-4310-5	S14310-5-116DMB	0.198	P24310-5-116IPT	0.198	H34310-0316FCUF	0.150	S34310-0316LCUS	0.190
4.320	J10008-4320-5	J100F8-4320-5	S14320-5-116DMB	0.201	S24320-5-116IPT	0.201	H34320-0316FCUF	0.150	S34320-0316LCUS	0.190
4.350	J10008-4350-5	J100F8-4350-5	S14350-5-116DMB	0.201	P24350-5-116IPT	0.201	H34350-0316FCUF	0.150	S34350-0316LCUS	0.190
4.360	J10008-4360-5	J100F8-4360-5	S14360-5-116DMB	0.203	S24360-5-116IPT	0.203	H34360-0316GCUF	0.155	S34360-0316LCUS	0.190
4.375	J10008-4375-5	J100F8-4375-5	S14375-5-116DMB	0.204	S24375-5-116IPT	0.204	H34375-0316FCUF	0.150	S34375-0316KCUS	0.190
4.390	J10008-4390-5	J100F8-4390-5	S14390-5-116DMB	0.203	P24390-5-116IPT	0.203	H34390-0316GCUF	0.150	S34390-0316LCUS	0.190

PREMIUM SPORTSMAN SERIES

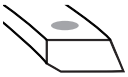
PREMIUM SPORTSMAN SERIES

TOP RING



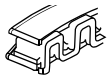
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



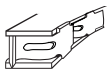
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



- *Horizontal corrugation similar to SS50U*

1/16, 1/16, 3/16 PLASMA MOLY SERIES J100 CONT.

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.440	J10008-4440-5	J100F8-4440-5	S14440-5-116DMB	0.207	S24440-5-116IPT	0.207	H34440-0316FCUF	0.155	S34440-0316LCUS	0.190
4.470		J100S8-4470-5	S14470-5-116DMB	0.207	H24470-5-116IPT	0.208			H34467-0316MCUF	0.205
4.500	J10008-4500-5	J100F8-4500-5	S14500-5-116DMB	0.210	P24500-5-116IPT	0.210	H34500-0316FCUF	0.155	S34500-0316LCUS	0.190
4.530	J10008-4530-5	J100F8-4530-5	S14530-5-116DMB	0.210	S24530-5-116IPT	0.210	H34530-0316FCUF	0.150	S34530-0316MCUS	0.190
4.560	J10008-4560-5	J100F8-4580-5	S14560-5-116DMB	0.212	P24560-5-116IPT	0.210	H34560-0316GCUF	0.150	S34580-0316LCUS	0.190
4.600	J100L8-4600-5		S14600-5-116DMB	0.212	P24600-5-116IPT	0.212	S34600-0316HCUS	0.190		
4.625		J100F8-4625-5	S14625-5-116DMB	0.215	S24625-5-116IPT	0.215			S34625-0316KCUS	0.190
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.560		J100H8-4560-5	S14560-5-116DMB	0.212	P24560-5-116IPT	0.210			S34560-0316MCUS	0.190
4.600	J100U8-4600-5		S14600-5-116DMB	0.212	P24600-5-116IPT	0.212	H34600-0316FCUF	0.150		
4.610		J100H8-4610-5	S14610-5-116DMB	0.212	S24610-5-116IPT	0.212			S34610-0316NCUS	0.190

.043, 1/16, 3/16 PLASMA MOLY SERIES J200

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.000	J20008-4000-5	J200F8-4000-5	S14000-5-043DMB	0.187	P24000-5-116IPT	0.187	H34000-0316FCUF	0.150	S34000-0316KCUS	0.190
4.020	J20008-4020-5	J200F8-4020-5	P14020-5-043DMB	0.187	P24020-5-116IPT	0.187	H34020-0316FCUF	0.150	S34020-0316KCUS	0.190
4.030	J20008-4030-5	J200F8-4030-5	S14030-5-043DMB	0.187	P24030-5-116IPT	0.187	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.040	J20008-4040-5	J200F8-4040-5	P14040-5-043DMB	0.187	P24040-5-116IPT	0.187	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.060	J20008-4060-5	J200F8-4060-5	S14060-5-043DMB	0.187	P24060-5-116IPT	0.187	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.080	J20008-4080-5	J200F8-4080-5	S14080-5-043DMB	0.189	S24080-5-116IPT	0.189	H34080-0316FCUF	0.150	S34080-0316KCUS	0.190
4.125	J20008-4125-5	J200F8-4125-5	S14130-5-043DMB	0.193	P24125-5-116IPT	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.130	J20008-4130-5	J200F8-4130-5	S14130-5-043DMB	0.193	P24135-5-116IPT	0.193	H34130-0316FCUF	0.150	S34130-0316LCUS	0.190
4.145	J20008-4145-5	J200F8-4145-5	S14145-5-043DMB	0.193	P24145-5-116IPT	0.193	H34145-0316FCUF	0.150	S34145-0316LCUS	0.190
4.155	J20008-4155-5	J200F8-4155-5	S14155-5-043DMB	0.193	P24155-5-116IPT	0.193	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.280	J20008-4280-5	J200F8-4280-5	S14280-5-043DMB	0.198	P24280-5-116IPT	0.198	H34280-0316FCUF	0.150	S34280-0316LCUS	0.190
4.310	J20008-4310-5	J200F8-4310-5	S14310-5-043DMB	0.200	P24310-5-116IPT	0.198	H34310-0316FCUF	0.150	S34310-0316LCUS	0.190
4.375	J20008-4375-5	J200F8-4375-5	S14375-5-043DMB	0.198	S24375-5-116IPT	0.204	H34375-0316FCUF	0.150	S34375-0316KCUS	0.190
4.440	J20008-4440-5	J200F8-4440-5	S14440-5-043DMB	0.207	S24440-5-116IPT	0.207	H34440-0316FCUF	0.155	S34440-0316LCUS	0.190
4.500	J20008-4500-5	J200F8-4500-5	S14500-5-043DMB	0.210	P24500-5-116IPT	0.210	H34500-0316FCUF	0.155	S34500-0316LCUS	0.190
4.530	J20008-4530-5	J200F8-4530-5	S14530-5-043DMB	0.210	S24530-5-116IPT	0.210	H34530-0316FCUF	0.150	S34530-0316MCUS	0.190
4.560	J20008-4560-5		S14560-5-043DMB	0.212	P24560-5-116IPT	0.210	H34560-0316GCUF	0.150		
4.600	J200L8-4600-5		P14600-5-043DMB	0.212	P24600-5-116IPT	0.212	S34600-0316HCUS	0.190		
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.560		J200H8-4560-5	S14560-5-043DMB	0.212	P24560-5-116IPT	0.210			S34560-0316MCUS	0.190
4.600	J200U8-4600-5		P14600-5-043DMB	0.212	P24600-5-116IPT	0.212	H34600-0316FCUF	0.150		

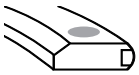
1/16, 1/16, 3mm PLASMA MOLY SERIES J300

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
3.810		J300F4-3810-5	S13810-5-116DMB	0.178	S23810-5-116IPT	0.178	H33815-03.0HCUF	0.135		
3.810		J300F6-3810-5	S13810-5-116DMB	0.178	S23810-5-116IPT	0.178	H33815-03.0HCUF	0.135		
4.000	J30008-4000-5		S14000-5-116DMB	0.187	P24000-5-116IPT	0.187	H34005-03.0ECUF	0.152		
4.010	J30008-4010-0		S14010-0-116DMB	0.187	S24010-0-116IPT	0.187	H34015-03.0ECUF	0.152		
4.020	J30008-4020-5		S14020-5-116DMB	0.187	P24020-5-116IPT	0.187	H34025-03.0ECUF	0.152		
4.030	J30008-4030-5	J300F8-4030-5	S14030-5-116DMB	0.187	P24030-5-116IPT	0.187	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J30008-4040-5	J300F8-4040-5	S14040-5-116DMB	0.187	P24040-5-116IPT	0.187	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140

PREMIUM SPORTSMAN SERIES

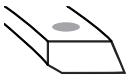
PREMIUM SPORTSMAN SERIES

TOP RING



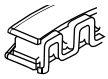
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



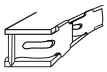
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



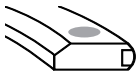
- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	*Top Ring #*	*Radial*	*Second Ring #*	*Radial*	*Low Tension Oil Ring #*	*Radial*	*STD Tension Oil Ring #*	*Radial*
1/16, 1/16, 3mm			*PLASMA MOLY*				**SERIES J300 CONT.**			
4.060	J30008-4060-5	J300F8-4060-5	S14060-5-116DMB	0.187	P24060-5-116IPT	0.187	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.070	J30008-4070-5		S14070-5-116DMB	0.189	S24070-5-116IPT	0.189	C34070-03.0ECUF	0.152		
4.080	J30008-4080-5		S14080-5-116DMB	0.189	S24080-5-116IPT	0.189	H34085-03.0ECUF	0.152		
4.095	J30008-4095-5		S14095-5-116DMB	0.191	S24095-5-116IPT	0.191	H34100-03.0ECUF	0.152		
4.120	J30008-4120-5		S14120-5-116DMB	0.192	P24125-5-116IPT	0.193	H34125-03.0ECUF	0.150		
4.125	J30008-4125-5	J300F8-4125-5	S14125-5-116DMB	0.192	P24125-5-116IPT	0.193	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.130	J30008-4130-5		S14130-5-116DMB	0.193	P24135-5-116IPT	0.193	H34130-03.0ECUF	0.152		
4.135	J30008-4135-5	J300F8-4135-5	P14135-5-116DMB	0.193	P24135-5-116IPT	0.193	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J30008-4145-5	J300F8-4145-5	S14145-5-116DMB	0.192	P24145-5-116IPT	0.193	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.155	J30008-4155-5	J300F8-4155-5	S14155-5-116DMB	0.192	P24155-5-116IPT	0.193	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J30008-4165-5	J300F8-4165-5	S14165-5-116DMB	0.194	P24165-5-116IPT	0.194	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
4.185	J30008-4185-5		S14185-5-116DMB	0.192	S24188-0-116IPT	0.194	H34187-03.0ECUF	0.152		
4.500	J30008-4500-5		S14500-5-116DMB	0.210	P24500-5-116IPT	0.210	H34500-03.0ECUF	0.152		
4.600		J300F8-4600-5	S14600-5-116DMB	0.212	P24600-5-116IPT	0.212			J34600-03.0HCUF	0.149
Bore	**Ultra Low Tension**	**High Tension**	*Top Ring #*	*Max Radial*	*Second Ring #*	*Max Radial*	*Ultra Low Tension Oil Ring #*	*Max Radial*	*High Tension Oil Ring #*	*Max Radial*
4.600	J300U8-4600-5		S14600-5-116DMB	0.212	P24600-5-116IPT	0.212	H34600-03.0DCUF	0.152		

.043, 1/16, 3mm			*PLASMA MOLY*				**SERIES J400**			
4.000	J40008-4000-5		S14000-5-043DMB	0.187	P24000-5-116IPT	0.187	H34005-03.0ECUF	0.152		
4.020	J40008-4020-5		P14020-5-043DMB	0.187	P24020-5-116IPT	0.187	H34025-03.0ECUF	0.152		
4.030	J40008-4030-5	J400F8-4030-5	S14030-5-043DMB	0.187	P24030-5-116IPT	0.187	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J40008-4040-5	J400F8-4040-5	P14040-5-043DMB	0.187	P24040-5-116IPT	0.187	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.060	J40008-4060-5	J400F8-4060-5	S14060-5-043DMB	0.187	P24060-5-116IPT	0.187	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.125	J40008-4125-5	J400F8-4125-5	S14130-5-043DMB	0.193	P24125-5-116IPT	0.193	H34130-03.0ECUF	0.152	J34125-03.0HCUF	0.155
4.155	J40008-4155-5	J400F8-4155-5	S14155-5-043DMB	0.193	P24155-5-116IPT	0.193	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
Bore	**Ultra Low Tension**	**STD Tension**	*Top Ring #*	*Max Radial*	*Second Ring #*	*Max Radial*	*Ultra Low Tension Oil Ring #*	*Max Radial*	*High Tension Oil Ring #*	*Max Radial*
4.600	J400U8-4600-5	J400F8-4600-5	P14600-5-043DMB	0.212	P24600-5-116IPT	0.212	H34600-03.0DCUF	0.152	J34600-03.0HCUF	0.140

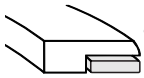
PREMIUM SPORTSMAN SERIES

TOP RING



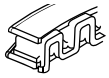
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



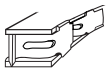
- *Gapless ®*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	*Top Ring #*	*Radial*	*Second Ring #*	*Radial*	*Low Tension Oil Ring #*	*Radial*	*STD Tension Oil Ring #*	*Radial*
1/16, 1/16, 3/16 *GAPLESS® 2ND*			*PLASMA MOLY*				**SERIES J500**			
4.000	J50008-4000-5	J500F8-4000-5	S14000-5-116DMB	0.187	T24000-5-116IPG	0.187	H34000-0316FCUF	0.150	S34000-0316KCUS	0.190
4.020	J50008-4020-5	J500F8-4020-5	S14020-5-116DMB	0.187	T24020-5-116IPG	0.187	H34020-0316FCUF	0.150	S34020-0316KCUS	0.190
4.030	J50008-4030-5	J500F8-4030-5	S14030-5-116DMB	0.187	T24030-5-116IPG	0.187	H34030-0316FCUF	0.150	H34030-0316LCUF	0.187
4.040	J50008-4040-5	J500F8-4040-5	S14040-5-116DMB	0.187	T24040-5-116IPG	0.187	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.060	J50008-4060-5	J500F8-4060-5	S14060-5-116DMB	0.187	T24060-5-116IPG	0.187	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.080	J50008-4080-5	J500F8-4080-5	S14080-5-116DMB	0.189	T24080-5-116IPG	0.189	H34080-0316FCUF	0.150	S34080-0316KCUS	0.190
4.120	J50008-4120-5	J500F8-4120-5	S14120-5-116DMB	0.192	T24125-5-116IPG	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.125	J50008-4125-5	J500F8-4125-5	S14125-5-116DMB	0.192	T24125-5-116IPG	0.193	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.130	J50008-4130-5	J500F8-4130-5	S14130-5-116DMB	0.193	T24135-5-116IPG	0.193	H34130-0316FCUF	0.150	S34130-0316LCUS	0.190
4.135	J50008-4135-5	J500F8-4135-5	P14135-5-116DMB	0.193	T24135-5-116IPG	0.193	H34135-0316FCUF	0.150	S34130-0316LCUS	0.190
4.145	J50008-4145-5	J500F8-4145-5	S14145-5-116DMB	0.192	T24145-5-116IPG	0.193	H34145-0316FCUF	0.150	S34145-0316LCUS	0.190
4.155	J50008-4155-5	J500F8-4155-5	S14155-5-116DMB	0.192	T24155-5-116IPG	0.193	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.165	J50008-4165-5	J500F8-4165-5	S14165-5-116DMB	0.194	T24165-5-116IPG	0.194	H34165-0316FCUF	0.150	S34165-0316LCUS	0.190

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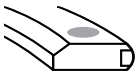
PREMIUM SPORTSMAN SERIES

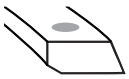
PREMIUM SPORTSMAN SERIES

TOP RING



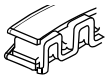
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**

- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.5, 1.5, 3mm BACKCUT TOP AND 2ND			PLASMA MOLY						**SERIES J600**	
4.000	J60008-4000-5		S14000-5-1.5DMR	0.160	J24000-3-1.5IPC	0.163	H34005-03.0ECUF	0.152		
4.020	J60008-4020-5		S14020-5-1.5DMR	0.160	J24020-3-1.5IPC	0.163	H34025-03.0ECUF	0.152		
4.030	J60008-4030-0		S14030-0-1.5DMR	0.160	J24030-3-1.5IPC	0.163	H34035-03.0ECUF	0.152		
4.030	J60008-4030-5	J600F8-4030-5	S14030-5-1.5DMR	0.160	J24030-3-1.5IPC	0.163	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.035	J60008-4035-5		S14040-0-1.5DMR	0.160	J24040-3-1.5IPC	0.163	H34035-03.0ECUF	0.152		
4.040	J60008-4040-5	J600F8-4040-5	S14040-5-1.5DMR	0.160	J24040-3-1.5IPC	0.163	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.060	J60008-4060-5	J600F8-4060-5	S14060-5-1.5DMR	0.160	J24060-3-1.5IPC	0.163	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J60008-4080-5		S14080-5-1.5DMR	0.160	J24080-3-1.5IPC	0.163	H34085-03.0ECUF	0.152		
4.125	J60008-4125-0		S14125-5-1.5DMR	0.160	J24120-3-1.5IPC	0.167	H34120-03.0ECUF	0.152		
4.125	J60008-4125-5	J600F8-4125-5	S14125-5-1.5DMR	0.160	J24125-3-1.5IPC	0.167	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.130	J60008-4130-0		S14125-5-1.5DMR	0.160	J24125-3-1.5IPC	0.167	H34130-03.0ECUF	0.152		
4.135	J60008-4135-5	J600F8-4135-5	S14135-5-1.5DMR	0.160	J24135-3-1.5IPC	0.167	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J60008-4145-5	J600F8-4145-5	S14145-5-1.5DMR	0.160	J24145-3-1.5IPC	0.167	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.155	J60008-4155-0	J600F8-4155-5	S14155-0-1.5DMR	0.160	J24155-3-1.5IPC	0.167	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.155	J60008-4155-5	J600F8-4155-5	S14155-5-1.5DMR	0.160	J24155-3-1.5IPC	0.167	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J60008-4165-5	J600F8-4165-5	S14165-5-1.5DMR	0.160	J24165-3-1.5IPC	0.167	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
4.185	J60008-4185-5		S14185-5-1.5DMR	0.160	J24187-0-1.5IPC	0.160	H34187-03.0ECUF	0.152		
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.030	J600U8-4030-5		S14030-5-1.5DMR	0.160	J24030-3-1.5IPC	0.163	S34030-03.0DCUS	0.130		

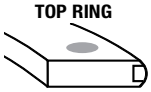
RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.5, .043, 3mm BACKCUT TOP AND 2ND			PLASMA MOLY						**SERIES J601**	
4.030	J60108-4030-5	J601F8-4030-5	S14030-5-1.5DMR	0.160	S24030-5-043IPC	0.165	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J60108-4040-0	J601F8-4040-0	S14040-0-1.5DMR	0.160	S24040-5-043IPC	0.165	H34035-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.040	J60108-4040-5	J601F8-4040-5	S14040-5-1.5DMR	0.160	S24040-5-043IPC	0.165	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.5, 1.5, 3mm			PLASMA MOLY						**SERIES J610**	
3.504	J61004-3504		S13504-0-1.5DMB	0.160	S23504-0-1.5IPT	0.165	H33504-03.0ECUF	0.150		
1.5, 1.5, 3mm			PLASMA MOLY - Flat Face Top						**SERIES J620**	
3.700	J62004-3700		H13700-0-1.5DMK	0.162	H23700-0-1.5IPT	0.162	H33700-03.0ECUF	0.152		
3.740	J62004-3740		H13740-0-1.5DMK	0.164	H23740-0-1.5IPT	0.164	H33740-03.0ECUF	0.150		
3.780	J62004-3780		H13780-0-1.5DMK	0.165	H23780-0-1.5IPT	0.165	H33780-03.0ECUF	0.150		
1.5, 1.5, 4mm			PLASMA MOLY - Flat Face Top						**SERIES J630**	
3.700		J630F4-3700	H13700-0-1.5DMK	0.162	H23700-0-1.5IPT	0.162			H33700-04.0KCUF	0.162
3.780		J630F4-3780	H13780-0-1.5DMK	0.165	H23780-0-1.5IPT	0.165			H33780-04.0KCUF	0.140

PREMIUM SPORTSMAN SERIES

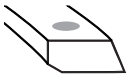
PREMIUM SPORTSMAN SERIES

TOP RING



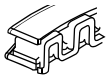
- Barrel Face
- Plasma Moly

SECOND RING



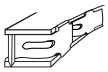
- Taper Face
- Phosphate Coated
- Reverse Torsional

***F* TYPE OIL RING**



- Vertical corrugation similar to CP20 and Flexvent

***S* TYPE OIL RING**



- Horizontal corrugation similar to SS50U

1.5, 1.5, 4mm — PLASMA MOLY — SERIES J640

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
3.504	J64004-3504		S13504-0-1.5DMB	0.160	S23504-0-1.5IPT	0.165	H33504-04.0GCUF	0.150		
3.543		J640F4-3543	S13543-0-1.5DMB	0.164	S23543-0-1.5IPT	0.165			H33543-04.0JCUF	0.150

1.5, 1.5, 4mm — PLASMA MOLY — SERIES J670

3.366		J670F4-3366	H13366-0-1.5DMH	0.153	H23366-0-1.5IPT	0.152			H33366-04.0JCUF	0.145

1.5, 1.5, 3/16 BACKCUT TOP AND 2ND — PLASMA MOLY — SERIES J690

4.030	J69008-4030-5	J690F8-4030-5	S14030-5-1.5DMR	0.160	J24030-3-1.5IPC	0.163	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.040	J69008-4040-5	J690F8-4040-5	S14040-5-1.5DMR	0.160	J24040-3-1.5IPC	0.163	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.125	J69008-4125-5	J690F8-4125-5	S14125-5-1.5DMR	0.160	J24125-3-1.5IPC	0.167	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.130	J69008-4130-0	J690F8-4130-5	S14125-5-1.5DMR	0.160	J24125-3-1.5IPC	0.167	H34130-0316FCUF	0.150	S34130-0316LCUS	0.190
4.135	J69008-4135-5		S14135-5-1.5DMR	0.160	J24135-3-1.5IPC	0.167	H34135-0316FCUF	0.150		
4.155	J69008-4155-0	J690F8-4155-5	S14155-0-1.5DMR	0.160	J24155-3-1.5IPC	0.167	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
Bore	**Ultra Low Tension**	**High Tension**	**Top Ring #**	**Max Radial**	**Second Ring #**	**Max Radial**	**Ultra Low Tension Oil Ring #**	**Max Radial**	**High Tension Oil Ring #**	**Max Radial**
4.000	J690U8-4000-5		S14000-5-1.5DMR	0.160	J24000-3-1.5IPC	0.163	S34000-0316DCUS	0.133		
4.135	J690U8-4135-5		S14135-5-1.5DMR	0.160	J24135-3-1.5IPC	0.167	S34140-0316DCUS	0.130		

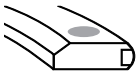
.043, .043, 3mm BACKCUT TOP AND 2ND — PLASMA MOLY — SERIES J700

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.060	J70004-4060-5		S14060-5-043DMR	0.160	S24060-5-043IPC	0.165	H34065-03.0ECUF	0.152		
4.185	J70004-4185-5		S14185-5-043DMR	0.160	S24185-5-043IPC	0.170	H34187-03.0ECUF	0.152		
4.000	J70008-4000-5		S14000-5-043DMR	0.160	S24000-5-043IPC	0.165	H34005-03.0ECUF	0.152		
4.020	J70008-4020-5		S14020-5-043DMR	0.160	S24020-5-043IPC	0.165	H34025-03.0ECUF	0.152		
4.030	J70008-4030-0		S14030-0-043DMR	0.160	S24030-5-043IPC	0.165	H34035-03.0ECUF	0.152		
4.030	J70008-4030-5	J700F8-4030-5	S14030-5-043DMR	0.160	S24030-5-043IPC	0.165	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J70008-4040-0		S14040-0-043DMR	0.160	S24040-5-043IPC	0.165	H34045-03.0ECUF	0.152		
4.040	J70008-4040-5	J700F8-4040-5	S14040-5-043DMR	0.160	S24040-5-043IPC	0.165	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.060	J70008-4060-5	J700F8-4060-5	S14060-5-043DMR	0.160	S24060-5-043IPC	0.165	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J70008-4080-5		S14080-5-043DMR	0.160	S24080-5-043IPC	0.165	H34085-03.0ECUF	0.152		
4.120	J70008-4120-5		S14120-5-043DMR	0.160	S24120-5-043IPC	0.170	H34125-03.0ECUF	0.150		
4.125	J70008-4125-5	J700F8-4125-5	S14125-5-043DMR	0.160	S24130-5-043IPC	0.170	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.130	J70008-4130-5		S14130-5-043DMR	0.160	S24130-5-043IPC	0.170	H34130-03.0ECUF	0.152		
4.135	J70008-4135-5	J700F8-4135-5	S14135-5-043DMR	0.160	S24135-5-043IPC	0.160	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J70008-4145-5	J700F8-4145-5	S14145-5-043DMR	0.160	S24145-5-043IPC	0.160	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.150	J70008-4150-0		S14150-5-043DMR	0.160	S24145-5-043IPC	0.160	H34150-03.0ECUF	0.152		
4.155	J70008-4155-5	J700F8-4155-5	S14155-5-043DMR	0.160	S24155-5-043IPC	0.170	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J70008-4165-5	J700F8-4165-5	S14165-5-043DMR	0.160	S24165-5-043IPC	0.170	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
4.175	J70008-4175-5		S14175-5-043DMR	0.160	S24175-5-043IPC	0.160	H34180-03.0ECUF	0.152		
4.185	J70008-4185-5		S14185-5-043DMR	0.160	S24185-5-043IPC	0.170	H34187-03.0ECUF	0.152		
4.190	J70008-4190-5		S14190-5-043DMR	0.163	S24190-5-043IPC	0.163	H34195-03.0ECUF	0.152		
4.195	J70008-4195-5		S14195-5-043DMR	0.163	S24195-5-043IPC	0.163	H34200-03.0ECUF	0.152		
4.205	J70008-4205-5		S14205-5-043DMR	0.163	S24205-5-043IPC	0.163	H34210-03.0ECUF	0.152		
4.215	J70008-4215-5		S14215-5-043DMR	0.163	S24215-5-043IPC	0.163	H34220-03.0ECUF	0.152		

PREMIUM SPORTSMAN SERIES

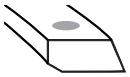
PREMIUM SPORTSMAN SERIES

TOP RING



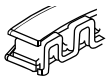
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



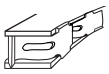
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



- *Horizontal corrugation similar to SS50U*

.043, 1.5, 3mm BACKCUT TOP AND 2ND PLASMA MOLY — SERIES J70T

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.000	J70T08-4000-5		S14000-5-043DMR	0.160	J24000-3-1.5IPC	0.163	H34005-03.0ECUF	0.152		
4.020	J70T08-4020-5		S14020-5-043DMR	0.160	J24020-3-1.5IPC	0.163	H34025-03.0ECUF	0.152		
4.030	J70T08-4030-5	J70TF8-4030-5	S14030-5-043DMR	0.160	J24030-3-1.5IPC	0.163	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J70T08-4040-0	J70TF8-4040-0	S14040-0-043DMR	0.160	J24040-3-1.5IPC	0.163	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.040	J70T08-4040-5	J70TF8-4040-5	S14040-5-043DMR	0.160	J24040-3-1.5IPC	0.163	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.060	J70T08-4060-5	J70TF8-4060-5	S14060-5-043DMR	0.160	J24060-3-1.5IPC	0.163	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J70T08-4080-5		S14080-5-043DMR	0.160	J24080-3-1.5IPC	0.163	H34085-03.0ECUF	0.152		
4.120	J70T08-4120-5	J70TF8-4120-5	S14120-5-043DMR	0.160	J24120-3-1.5IPC	0.167	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.125	J70T08-4125-5	J70TF8-4125-5	S14125-5-043DMR	0.160	J24125-3-1.5IPC	0.167	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.130	J70T08-4130-5		S14130-5-043DMR	0.160	J24135-3-1.5IPC	0.167	H34130-03.0ECUF	0.152		
4.135	J70T08-4135-5	J70TF8-4135-5	S14135-5-043DMR	0.160	J24135-3-1.5IPC	0.167	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J70T08-4145-5	J70TF8-4145-5	S14145-5-043DMR	0.160	J24145-3-1.5IPC	0.167	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.150	J70T08-4150-5	J70TF8-4150-5	S14150-5-043DMR	0.160	J24155-3-1.5IPC	0.167	H34157-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.155	J70T08-4155-5	J70TF8-4155-5	S14155-5-043DMR	0.160	J24155-3-1.5IPC	0.167	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J70T08-4165-5	J70TF8-4165-5	S14165-5-043DMR	0.160	J24165-3-1.5IPC	0.167	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155

.043, 1./16, 3/16 BACKCUT TOP PLASMA MOLY — SERIES J711

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Ultra Low Tension	Low Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.600	J711U8-4600-5	J711L8-4600-5	S14600-5-043DMR	0.175	P24600-5-116IPT	0.212	H34600-0316FCUF	0.150	S34600-0316HCUS	0.190

.043, .043, 3/16 BACKCUT TOP AND 2ND PLASMA MOLY — SERIES J720

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.000	J72008-4000-5	J720F8-4000-5	S14000-5-043DMR	0.160	S24000-5-043IPC	0.165	H34000-0316FCUF	0.150	S34000-0316KCUS	0.190
4.030	J72008-4030-5	J720F8-4030-5	S14030-5-043DMR	0.160	S24030-5-043IPC	0.165	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.040	J72008-4040-5	J720F8-4040-5	S14040-5-043DMR	0.160	S24040-5-043IPC	0.165	H34040-0316FCUF	0.150	S34040-0316KCUS	0.190
4.060	J72008-4060-5	J720F8-4060-5	S14060-5-043DMR	0.160	S24060-5-043IPC	0.165	H34060-0316FCUF	0.150	S34060-0316KCUS	0.190
4.125	J72008-4125-5	J720F8-4125-5	S14125-5-043DMR	0.160	S24130-5-043IPC	0.170	H34125-0316FCUF	0.150	S34125-0316KCUS	0.190
4.130	J72008-4130-5	J720F8-4130-5	S14130-5-043DMR	0.160	S24130-5-043IPC	0.170	H34130-0316FCUF	0.150	S34130-0316LCUS	0.190
4.155	J72008-4155-5	J720F8-4155-5	S14155-5-043DMR	0.160	S24155-5-043IPC	0.170	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190
4.165	J72008-4165-5	J720F8-4165-5	S14165-5-043DMR	0.160	S24165-5-043IPC	0.170	H34165-0316FCUF	0.150	S34165-0316LCUS	0.190

.043, .043, 3/16 BACKCUT TOP PLASMA MOLY — SERIES J730

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Ultra Low Tension	Low Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.600	J730U8-4600-5	J73008-4600-5	S14600-5-043DMR	0.175	S24600-5-043IPT	0.212	H34600-0316FCUF	0.150	S34600-0316HCUS	0.190

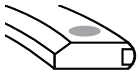
.043, .043, 3MM BACKCUT TOP AND 2ND PLASMA MOLY — SERIES J760

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
4.030	J76008-4030-5	J760F8-4030-5	S14030-5-043DMR	0.160	P24030-5-116IPT	0.187	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.060	J76008-4060-5	J760F8-4060-5	S14060-5-043DMR	0.160	P24060-5-116IPT	0.187	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J76008-4080-5		S14080-5-043DMR	0.160	S24080-5-116IPT	0.189	H34085-03.0ECUF	0.152		
4.125	J76008-4125-5	J760F8-4125-5	S14125-5-043DMR	0.160	P24125-5-116IPT	0.193	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.130	J76008-4130-5		S14130-5-043DMR	0.160	P24135-5-116IPT	0.193	H34130-03.0ECUF	0.152		

PREMIUM SPORTSMAN SERIES

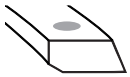
PREMIUM SPORTSMAN SERIES

TOP RING



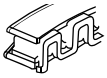
- Barrel Face Torsional
- Plasma Moly

SECOND RING



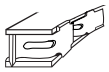
- Taper Face
- Phosphate Coated
- Reverse Torsional

***F* TYPE OIL RING**



- Vertical corrugation similar to CP20 and Flexvent

***S* TYPE OIL RING**

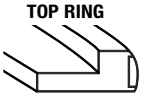


- Horizontal corrugation similar to SS50U

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
.043, .043, 3mm BACKCUT TOP			PLASMA MOLY						**SERIES J770**	
4.600	J770U8-4600-5		S14600-5-043DMR	0.175	S24600-5-043IPT	0.212	H34600-03.0DCUF	0.152		
4.625		J77008-4625-5	S14625-5-043DMR	0.175	S24625-5-043IPT	0.212			H34625-03.0FCUF	0.152
4.675		J77008-4675-5	S14675-5-043DMR	0.175	S24675-5-043IPT	0.212			H34675-03.0FCUF	0.152
2.0, 1.5, 4MM			PLASMA MOLY - Flat Face Top						**SERIES J830**	
4.468	J83008-4468		H14468-0-2.0DMK	0.208	H24468-0-1.5IPT	0.208	H34468-04.0FCUF	0.140		
2.0, 5/64, 3/16			PLASMA MOLY - Flat Face Top						**SERIES J850**	
4.468	J85008-4468		H14468-0-2.0DMK	0.208	H24472-0-564IPT	0.208	H34468-0316HCUF	0.150		

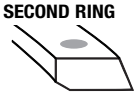
JE PRO SEAL PREMIUM SPORTSMAN DYKES RINGS

TOP RING



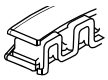
- D017 Dykes
- Plasma Moly

SECOND RING



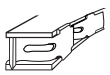
- Taper Face
- Phosphate Coated

***F* TYPE OIL RING**



- Vertical corrugation similar to CP20 and Flexvent

***S* TYPE OIL RING**

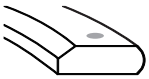


- Horizontal corrugation similar to SS50U

Bore	Standard Tension	High Tension	Top Ring #	Max Radial	Second Ring #	Max Radial	Ultra Low Tension Oil Ring #	Max Radial	High Tension Oil Ring #	Max Radial
D017 DYKES, 1/16, 3/16			PLASMA MOLY						**SERIES J880**	
4.185	J880F8-4185-5	J880H8-4185-5	J14185-5-017DMD	0.173	S24188-0-116IPT	0.194	S34185-0316KCUS	0.190	J34190-0316NCUF	0.197
4.250	J880F8-4250-5	J880H8-4250-5	J14250-5-017DMD	0.173	S24250-5-116IPT	0.198	S34250-0316LCUS	0.190	J34250-0316NCUF	
4.310	J880F8-4310-5	J880H8-4310-5	J14310-5-017DMD	0.173	P24310-5-116IPT	0.198	S34310-0316LCUS	0.190	J34310-0316NCUF	0.197
4.375	J880F8-4375-5	J880H8-4375-5	J14375-5-017DMD	0.173	S24375-5-116IPT	0.204	S34375-0316KCUS	0.190	J34375-0316NCUF	0.197

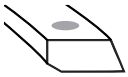
PREMIUM SPORTSMAN SERIES

TOP RING



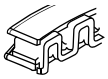
- Barrel Face Torsional
- Stainless Steel

SECOND RING



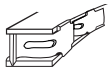
- Taper Face
- Phosphate Coated
- Reverse Torsional

***F* TYPE OIL RING**



- Vertical corrugation similar to CP20 and Flexvent

***S* TYPE OIL RING**



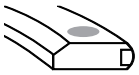
- Horizontal corrugation similar to SS50U

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
STAINLESS STEEL COMPOSITE NITRIDE TOP RING										
1.2, 1.5, 2.8mm BACKCUT TOP AND 2ND									**SERIES J900**	
4.000	J90008-4000-3		J14000-3-1.2SGR	0.152	J24000-3-1.5IPC	0.163	J34000-02.8DSNF	0.122		
4.020	J90008-4020-3		J14020-3-1.2SGR	0.152	J24020-3-1.5IPC	0.163	J34020-02.8DSNF	0.122		
4.030	J90008-4030-3		J14030-3-1.2SGR	0.152	J24030-3-1.5IPC	0.163	J34030-02.8DSNF	0.122		
4.040	J90008-4040-3		J14040-3-1.2SGR	0.152	J24040-3-1.5IPC	0.163	J34040-02.8DSNF	0.122		
4.135	J90008-4135-3		J14135-3-1.2SGR	0.160	J24135-3-1.5IPC	0.167	J34135-02.8DSNF	0.122		
4.165	J90008-4165-3		J14165-3-1.2SGR	0.160	J24165-3-1.5IPC	0.167	J34165-02.8DSNF	0.122		
STAINLESS STEEL COMPOSITE NITRIDE TOP RING										
1.2, 1.5, 2.8mm BACKCUT TOP AND 2ND									**SERIES J90D**	
4.030	J90D08-4030-3		J14030-3-1.2SGR	0.152	S24030-5-1.5IPC	0.165	J34030-02.8DSNF	0.122		
4.040	J90D08-4040-3		J14040-3-1.2SGR	0.152	S24040-5-1.5IPC	0.165	J34040-02.8DSNF	0.122		

PREMIUM SPORTSMAN SERIES

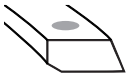
PREMIUM SPORTSMAN SERIES

TOP RING



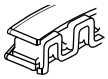
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

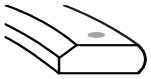
***S* TYPE OIL RING**

- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.2, 1.5, 3mm BACKCUT TOP AND 2ND					PLASMA MOLY				**SERIES J910**	
4.000	J91008-4000-5		S14000-5-1.2DMR	0.160	J24000-3-1.5IPC	0.163	H34005-03.0ECUF	0.152		
4.010	J91008-4010-5		S14010-5-1.2DMR	0.160	J24010-3-1.5IPC	0.163	H34015-03.0ECUF	0.152		
4.020	J91008-4020-5		S14020-5-1.2DMR	0.160	J24020-3-1.5IPC	0.163	H34025-03.0ECUF	0.152		
4.030	J91008-4030-5	J910F8-4030-5	S14030-5-1.2DMR	0.160	J24030-3-1.5IPC	0.163	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J91008-4040-5	J910F8-4040-5	S14040-5-1.2DMR	0.160	J24040-3-1.5IPC	0.163	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.050	J91008-4050-5		S14050-5-1.2DMR	0.160	J24060-3-1.5IPC	0.163	H34055-03.0ECUF	0.152		
4.060	J91008-4060-5	J910F8-4060-5	S14060-5-1.2DMR	0.160	J24060-3-1.5IPC	0.163	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J91008-4080-5		S14080-5-1.2DMR	0.160	J24080-3-1.5IPC	0.163	H34085-03.0ECUF	0.152		
4.100	J91008-4100-5		S14100-5-1.2DMR	0.160	J24100-3-1.5IPC	0.167	H34100-03.0ECUF	0.152		
4.120	J91008-4120-5		S14120-5-1.2DMR	0.160	J24120-3-1.5IPC	0.167	H34125-03.0ECUF	0.150		
4.125	J91008-4125-5	J910F8-4125-5	S14125-5-1.2DMR	0.160	J24125-3-1.5IPC	0.167	H34130-03.0ECUF	0.152	J34125-03.0HCUF	0.155
4.130	J91008-4130-5		S14130-5-1.2DMR	0.160	J24135-3-1.5IPC	0.167	H34132-03.0ECUF	0.152		
4.135	J91008-4135-5	J910F8-4135-5	S14135-5-1.2DMR	0.160	J24135-3-1.5IPC	0.167	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.140	J91008-4140-5		S14140-5-1.2DMR	0.160	J24145-3-1.5IPC	0.167	H34150-03.0ECUF	0.152		
4.145	J91008-4145-5	J910F8-4145-5	S14145-5-1.2DMR	0.160	J24145-3-1.5IPC	0.167	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.150	J91008-4150-5	J910F8-4150-5	S14150-5-1.2DMR	0.160	J24155-3-1.5IPC	0.167	H34157-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.155	J91008-4155-5	J910F8-4155-5	S14155-5-1.2DMR	0.160	J24155-3-1.5IPC	0.167	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J91008-4165-5	J910F8-4165-5	S14165-5-1.2DMR	0.160	J24165-3-1.5IPC	0.167	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
1.2, .043, 3mm BACKCUT TOP AND 2ND					PLASMA MOLY				**SERIES J911**	
4.000	J91108-4000-5		S14000-5-1.2DMR	0.160	S24000-5-043IPC	0.165	H34005-03.0ECUF	0.152		
4.020	J91108-4020-5		S14020-5-1.2DMR	0.160	S24020-5-043IPC	0.165	H34025-03.0ECUF	0.152		
4.030	J91108-4030-5	J911F8-4030-5	S14030-5-1.2DMR	0.160	S24030-5-043IPC	0.165	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J91108-4040-5	J911F8-4040-5	S14040-5-1.2DMR	0.160	S24040-5-043IPC	0.165	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.060	J91108-4060-5	J911F8-4060-5	S14060-5-1.2DMR	0.160	S24060-5-043IPC	0.165	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.080	J91108-4080-5		S14080-5-1.2DMR	0.160	S24080-5-043IPC	0.165	H34085-03.0ECUF	0.152		
4.120	J91108-4120-5	J911F8-4120-5	S14120-5-1.2DMR	0.160	S24120-5-043IPC	0.170	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.125	J91108-4125-5	J911F8-4125-5	S14125-5-1.2DMR	0.160	S24130-5-043IPC	0.170	H34130-03.0ECUF	0.152	J34125-03.0HCUF	0.155
4.130	J91108-4130-5		S14130-5-1.2DMR	0.160	S24130-5-043IPC	0.170	H34130-03.0ECUF	0.152		
4.155	J91108-4155-5	J911F8-4155-5	S14155-5-1.2DMR	0.160	S24155-5-043IPC	0.170	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
4.165	J91108-4165-5	J911F8-4165-5	S14165-5-1.2DMR	0.160	S24165-5-043IPC	0.170	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
4.185	J91108-4185-5		S14185-5-1.2DMR	0.160	S24185-5-043IPC	0.170	H34187-03.0ECUF	0.152		
4.190	J91108-4190-5		S14190-5-1.2DMR	0.160	S24190-5-043IPC	0.163	H34187-03.0ECUF	0.152		

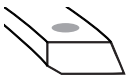
PREMIUM SPORTSMAN SERIES

TOP RING



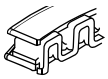
- *Barrel Face Torsional*
- *Carbon Steel*
- *Chrome Face*

SECOND RING



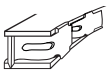
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



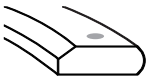
- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.2, 1.5, 3mm BACKCUT TOP AND 2ND					CARBON STEEL				**SERIES J912**	
4.120	J91208-4120-3	J912F8-4120-3	J14120-3-1.2CUS	0.154	J24120-3-1.5IPC	0.167	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.125	J91208-4125-3	J912F8-4125-3	J14125-3-1.2CUS	0.154	J24125-3-1.5IPC	0.167	H34130-03.0ECUF	0.152	J34125-03.0HCUF	0.155
4.135	J91208-4135-3	J912F8-4135-3	J14135-3-1.2CUS	0.154	J24135-3-1.5IPC	0.167	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J91208-4145-3	J912F8-4145-3	J14145-3-1.2CUS	0.162	J24145-3-1.5IPC	0.167	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.155	J91208-4155-3	J912F8-4155-3	J14155-3-1.2CUS	0.162	J24155-3-1.5IPC	0.167	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155
1.2, 1.2, 3mm BACKCUT TOP					CARBON STEEL				**SERIES J913**	
4.125	J91308-4125-3	J913F8-4125-3	J14125-3-1.2CUS	0.154	J24125-2-1.2DPA	0.155	H34130-03.0ECUF	0.152	J34125-03.0HCUF	0.155

PREMIUM SPORTSMAN SERIES

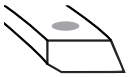
PREMIUM SPORTSMAN SERIES

TOP RING



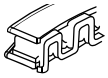
- *Barrel Face Torsional*
- *Stainless Steel*

SECOND RING



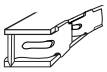
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**

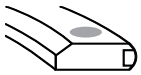


- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
STAINLESS STEEL COMPOSITE NITRIDE TOP RING										
1.2, 1.2, 3mm *BACKCUT TOP AND 2ND*								**SERIES J920**		
4.000	J92008-4000-3		J14000-3-1.2SDR	0.152	J24005-2-1.2DPA	0.155	H34005-03.0ECUF	0.152		
4.010	J92008-4010-3		J14010-3-1.2SDR	0.152	J24010-4-1.2DPA	0.155	H34015-03.0ECUF	0.152		
4.020	J92008-4020-3		J14020-3-1.2SDR	0.152	J24020-2-1.2DPA	0.155	H34025-03.0ECUF	0.152		
4.030	J92008-4030-3	J920F8-4030-3	J14030-3-1.2SDR	0.152	J24030-2-1.2DPA	0.155	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.035	J92008-4035-3	J920F8-4030-3	J14040-3-1.2SDR	0.152	J24040-2-1.2DPA	0.155	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J92008-4040-3	J920F8-4040-3	J14040-3-1.2SDR	0.152	J24040-2-1.2DPA	0.155	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.080	J92008-4080-3		J14080-3-1.2SDR	0.152	J24080-0-1.2DPA	0.155	H34085-03.0ECUF	0.152		
4.155	J92008-4155-3	J920F8-4155-3	J14155-3-1.2SDR	0.160	J24155-3-1.2DPA	0.155	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155

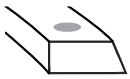
PREMIUM SPORTSMAN SERIES

TOP RING



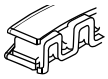
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



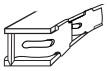
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**

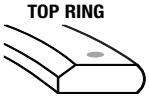


- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.2, 1.2, 3mm *BACKCUT TOP*					*PLASMA MOLY*			**SERIES J930**		
4.000	J93008-4000-5		S14000-5-1.2DMR	0.160	J24005-2-1.2DPA	0.155	H34005-03.0ECUF	0.152		
4.010	J93008-4010-5		S14010-5-1.2DMR	0.160	J24010-4-1.2DPA	0.155	H34015-03.0ECUF	0.152		
4.020	J93008-4020-5		S14020-5-1.2DMR	0.160	J24020-2-1.2DPA	0.155	H34025-03.0ECUF	0.152		
4.030	J93008-4030-5	J930F8-4030-5	S14030-5-1.2DMR	0.160	J24030-2-1.2DPA	0.155	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J93008-4040-5	J930F8-4040-5	S14040-5-1.2DMR	0.160	J24040-2-1.2DPA	0.155	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.050	J93008-4050-5		S14050-5-1.2DMR	0.160	J24050-2-1.2DPA	0.155	H34055-03.0ECUF	0.152		
4.060	J93008-4060-5	J930F8-4060-5	S14060-5-1.2DMR	0.160	J24060-0-1.2DPA	0.155	H34065-03.0ECUF	0.152	J34060-03.0HCUF	0.140
4.070	J93008-4070-5		S14070-5-1.2DMR	0.160	J24070-0-1.2DPA	0.155	C34070-03.0ECUF	0.152		
4.080	J93008-4080-5		S14080-5-1.2DMR	0.160	J24080-0-1.2DPA	0.155	H34085-03.0ECUF	0.152		
4.125	J93008-4125-5	J930F8-4125-5	S14125-5-1.2DMR	0.160	J24125-2-1.2DPA	0.155	H34125-03.0ECUF	0.150	J34125-03.0HCUF	0.155
4.135	J93008-4135-5	J930F8-4135-5	S14135-5-1.2DMR	0.160	J24135-2-1.2DPA	0.155	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.145	J93008-4145-5	J930F8-4145-5	S14145-5-1.2DMR	0.160	J24145-2-1.2DPA	0.155	H34150-03.0ECUF	0.152	J34145-03.0HCUF	0.155
4.155	J93008-4155-5	J930F8-4155-5	S14155-5-1.2DMR	0.160	J24155-3-1.2DPA	0.155	H34160-03.0ECUF	0.152	J34155-03.0HCUF	0.155

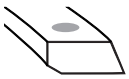
PREMIUM SPORTSMAN SERIES

TOP RING



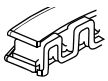
- *Barrel Face Torsional*
- *Stainless Steel*

SECOND RING



- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**

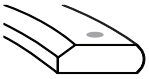
- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	Low Tension	STD Tension	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
STAINLESS STEEL COMPOSITE NITRIDE TOP RING										
1.2, 1.5, 3mm *BACKCUT TOP AND 2ND*								**SERIES J940**		
4.010	J94008-4010-3		J14010-3-1.2SGR	0.152	J24010-3-1.5IPC	0.163	H34015-03.0ECUF	0.152		
4.020	J94008-4020-3		J14020-3-1.2SGR	0.152	J24020-3-1.5IPC	0.163	H34025-03.0ECUF	0.152		
4.030	J94008-4030-3	J940F8-4030-3	J14030-3-1.2SGR	0.152	J24030-3-1.5IPC	0.163	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.040	J94008-4040-3	J940F8-4040-3	J14040-3-1.2SGR	0.152	J24040-3-1.5IPC	0.163	H34045-03.0ECUF	0.152	J34040-03.0HCUF	0.140
4.080	J94008-4080-3		J14080-3-1.2SGR	0.152	J24080-3-1.5IPC	0.163	H34085-03.0ECUF	0.152		
4.100	J94008-4100-3		J14100-3-1.2SGR	0.152	J24100-3-1.5IPC	0.167	H34100-03.0ECUF	0.152		
4.135	J94008-4135-3	J940F8-4135-3	J14135-3-1.2SGR	0.160	J24135-3-1.5IPC	0.167	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.165	J94008-4165-3	J940F8-4165-3	J14165-3-1.2SGR	0.160	J24165-3-1.5IPC	0.167	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155

PREMIUM SPORTSMAN SERIES

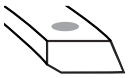
PREMIUM SPORTSMAN SERIES

TOP RING



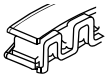
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



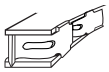
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**

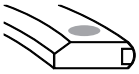


- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
STAINLESS STEEL COMPOSITE NITRIDE TOP RING										
1.2, 1/16, 3mm *BACKCUT TOP AND 2ND*									**SERIES J950**	
4.000	J95008-4000-3		J14000-3-1.2SGR	0.152	P24000-5-116IPT	0.187	H34005-03.0ECUF	0.152		
4.010	J95008-4010-3		J14010-3-1.2SGR	0.152	S24010-0-116IPT	0.187	H34015-03.0ECUF	0.152		
4.020	J95008-4020-3		J14020-3-1.2SGR	0.152	P24020-5-116IPT	0.187	H34025-03.0ECUF	0.152		
4.030	J95008-4030-3	J950F8-4030-3	J14030-3-1.2SGR	0.152	P24030-5-116IPT	0.187	H34035-03.0ECUF	0.152	J34030-03.0HCUF	0.140
4.135	J95008-4135-3	J950F8-4135-3	J14135-3-1.2SGR	0.160	P24135-5-116IPT	0.193	H34140-03.0ECUF	0.152	J34135-03.0HCUF	0.155
4.165	J95008-4165-3	J950F8-4165-3	J14165-3-1.2SGR	0.160	P24165-5-116IPT	0.194	H34170-03.0ECUF	0.152	J34165-03.0HCUF	0.155
4.625	J95008-4625-3		J14625-3-1.2SGR	0.176	S24625-5-116IPT	0.215	H34625-03.0FCUF	0.152		

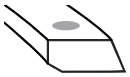
PREMIUM SPORTSMAN SERIES

TOP RING



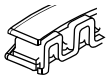
- *Barrel Face Torsional*
- *Plasma Moly*

SECOND RING



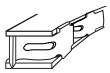
- *Taper Face*
- *Phosphate Coated*
- *Reverse Torsional*

***F* TYPE OIL RING**



- *Vertical corrugation similar to CP20 and Flexvent*

***S* TYPE OIL RING**



- *Horizontal corrugation similar to SS50U*

RING SET PART NUMBERS			INDIVIDUAL RING PART NUMBERS							
Bore	**Low Tension**	**STD Tension**	Top Ring #	Radial	Second Ring #	Radial	Low Tension Oil Ring #	Radial	STD Tension Oil Ring #	Radial
1.2, 1.5, 3/16 *BACKCUT TOP AND 2ND*					*PLASMA MOLY*				**SERIES J960**	
4.020	J96008-4020-5	J960F8-4020-5	S14020-5-1.2DMR	0.160	J24020-3-1.5IPC	0.163	H34020-0316FCUF	0.150	S34020-0316KCUS	0.190
4.030	J96008-4030-5	J960F8-4030-5	S14030-5-1.2DMR	0.160	J24030-3-1.5IPC	0.163	H34030-0316FCUF	0.150	S34030-0316KCUS	0.190
4.135	J96008-4135-5	J960F8-4135-5	S14135-5-1.2DMR	0.160	J24135-3-1.5IPC	0.167	H34135-0316FCUF	0.150	S34130-0316LCUS	0.190
4.145	J96008-4145-5	J960F8-4145-5	S14145-5-1.2DMR	0.160	J24145-3-1.5IPC	0.167	H34145-0316FCUF	0.150	S34145-0316LCUS	0.190
4.155	J96008-4155-5	J960F8-4155-5	S14155-5-1.2DMR	0.160	J24155-3-1.5IPC	0.167	H34155-0316FCUF	0.150	S34155-0316JCUS	0.190

Specially developed for use with either Nikasil and/or factory iron blocks and liners. Added tensile strength helps maintain bore conformity to improve ring to cylinder wall seal.

Includes:

Steel Gas Nitrided Top, Premium Iron 2nd, Low Tension Oil Ring

AXIAL HEIGHT	BASE #	BORE SIZES
1.2mm • 1.2mm • 2.8mm	JG0004	*3031, 3051, 3071*
1.0mm • 1.2mm • 2.8mm	JG1004	*2874, 2953, 2972, 2992, 3110, 3189, 3209, 3228, 3250, 3268, 3287, 3307, 3327, 3346, 3366, 3386, 3405, 3425, 3445, 3465, 3484, 3504, 3543, 3583, 3622, 3642, 3661, 3701*
1.5mm • 1.5mm • 4.0mm	JG2004	*3445, 3504, 3514, 3524, 3534*
1.5mm • 1.5mm • 4.0mm	JG2104	*3425*
1.5mm • 1.5mm • 4.0mm	JG2204	*3445*
1.5mm • 1.5mm • 4.0mm	JG2304	*3455, 3465*
1.5mm • 1.5mm • 4.0mm	JG2404	*3587, 3626*
1.5mm • 1.5mm • 4.0mm	JG2504	*3642, 3652*
1.2mm • 1.5mm • 3.0mm	JG2604	*3240*
1.2mm • 1.5mm • 3.0mm	JG2704	*3347, 3366, 3376*
1.2mm • 1.5mm • 3.0mm	JG2804	*3386, 3760*
1.2mm • 1.5mm • 3.0mm	JG2904	*3268*
1.2mm • 1.5mm • 2.8mm	JG3004	*2953*
1.5mm • 1.5mm • 3.0mm	JG6004	*3386*
1.2mm • 1.5mm • 3.0mm	JG9004	*3189, 3199, 3209,*
6 CYLINDER SETS		
1.5mm • 1.5mm • 4.0mm	JG2206	*3484*

Includes:

Ductile Iron/Moly top ring, Cast Iron 2nd ring, low tension oil ring

Ductile Iron/Moly top ring, Cast Iron 2nd ring, low tension oil ring		
1.5mm • 1.5mm • 4.0mm	J64004	*3504, 3740, 3810, 3820*
1.5mm • 1.5mm • 4.0mm	J640F4	*3307, 3317, 3327, 3347*
1.5mm • 1.5mm • 4.0mm	J640H4	*3366, 3543, 3700, 3780*
1.5mm • 1.5mm • 4.0mm	J614F4	*3386, 3406, 3622, 3642*
1.5mm • 1.5mm • 4.0mm	J615F4	*3425, 3445*
1.5mm • 1.5mm • 4.0mm	J616F4	*3830*
1.5mm • 1.5mm • 4.0mm	J670F4	*3366*

PREMIUM SPORTSMAN SERIES

Our standard high performance ring set in a wide variety of axial heights and bore sizes.

Includes:

Steel Chrome Face Top, Premium Iron 2nd, Low Tension Oil Ring

AXIAL HEIGHT	BASE #	BORE SIZES
1.0mm • 1.2mm • 2.8mm	JXC0F4	2953-2, 2963-0, 2972-2, 3189-3, 3199-0, 3209-2, 3228-0, 3248-2, 3268-2, 3287-0, 3307-2, 3327-0, 3346-0, 3425-2, 3445-0, 3504-0, 3543-0
1.2mm • 1.2mm • 2.8mm	JC0004	3386, 3425
1.2mm • 1.2mm • 3.0mm	JC1004	3110
1.5mm • 1.5mm • 4.0mm	JC11F4	3405
1.2mm • 1.2mm • 3.0mm	JC1204	3465
1.2mm • 1.2mm • 2.8mm	JC1304	3543
1.2mm • 1.5mm • 2.8mm	JC14F4	3917
1.2mm • 1.5mm • 4.0mm	JC15F4	3405
1.2mm • 1.5mm • 4.0mm	JC1604	3031, 3051
1.2mm • 1.5mm • 4.0mm	JC1704	3150
1.5mm • 1.5mm • 3.0mm	JC1804	3661
1.2mm • 1.5mm • 3.0mm	JC1904	3366, 3386
1.2mm • 1.5mm • 3.0mm	JC2104	3406, 3425
1.2mm • 1.5mm • 3.0mm	JC2204	3587
1.2mm • 1.5mm • 3.0mm	JC2304	2972
1.2mm • 1.5mm • 3.0mm	JC2404	3642
1.0mm • 1.2mm • 2.8mm	JC2504	2854
1.0mm • 1.2mm • 2.8mm	JC2604	3209
1.2mm • 1.2mm • 3.0mm	JC2704	3386
1.5mm • 1.5mm • 3.0mm	JC2904	3386
1.2mm • 1.5mm • 2.8mm	JC3004	3071, 3091
1.2mm • 1.5mm • 4.0mm	JC4004	3622, 3642
1.5mm • 1.5mm • 3.0mm	JC6004	3287
1.2mm • 1.2mm • 2.5mm	JC7004	3504, 3524
1.2mm • 1.2mm • 2.8mm	JC8004	3445
1.2mm • 1.5mm • 3.0mm	JC9004	3622
6 CYLINDER SETS		
1.0mm • 1.2mm • 2.8mm	JXC0F6	3228-0, 3268-0, 3287-0, 3307-2
1.5mm • 1.5mm • 4.0mm	JC20H6	3405
1.2mm • 1.5mm • 3.0mm	JC2106	3406, 3425
1.2mm • 1.5mm • 3.0mm	JC2206	3606
1.2mm • 1.2mm • 2.5mm	JC2806	3760
1.5mm • 1.5mm • 2.8mm	JC50F6	3445

SPORTSMAN SERIES RING SETS

Introducing JE Pro Seal "Sportsman Series" rings. With a 1/16" ductile iron plasma moly faced top ring, a 1/16" premium iron taper faced second ring and a 3/16" chrome plated carbon steel oil ring, these ring packages offer track tested combinations in popular bore sizes at economical prices. Sportsman rings are sold only in complete V8 sets.

- **Top Ring –** Material: Ductile Iron – Coating: Plasma Moly
- **Second Ring –** Material: Cast Iron – Coating: Phosphate – Shape: Taper Face
- **Oil Ring** – Material: Carbon Steel – Coating: Chrome Plated

1/16, 1/16, 3/16		SPORTSMAN SERIES				SERIES 100S	
Ring Set #	Bore Size	Ring Set #	Bore Size	Ring Set #	Bore Size	Ring Set #	Bore Size
S100S8-4020-5	4.020	S100S8-4125-5	4.125	S100S8-4280-5	4.280	S100S8-4500-5	4.500
S100S8-4030-5	4.030	S100S8-4145-5	4.145	S100S8-4310-5	4.310	S100S8-4530-5	4.530
S100S8-4040-5	4.040	S100S8-4155-5	4.155	S100S8-4350-5	4.350	S100S8-4560-5	4.560
S100S8-4060-5	4.060	S100S8-4165-5	4.165	S100S8-4390-5	4.390	S100S8-4600-5	4.600

PORSCHE RINGS

Bore (mm)	Bore (inches)	Ring	Axial Height	Ring Type	Radial Width	Ring Part #
95mm	3.7402	Top	1.5	Tapered, Inside Bevel (Top Side), Special Cast Iron Phosphate	.160	J65006-3740
		Second	1.75	Tapered Single Hooked Scraper, Special Cast Iron Phosphate	.160	
		Oil	3.5	Double-beveled with Coil Spring, Cast Iron Phosphate	.155	
98mm	3.8583	Top	1.5	Tapered, Inside Bevel (Top Side), Special Cast Iron Phosphate	.160	J61006-3858
		Second	1.5	Tapered, Inside Bevel (Top Side), Special Cast Iron Phosphate	.160	
		Oil	3.0	Double-beveled with Coil Spring, Cast Iron Phosphate	.150	
100mm	3.9370	Top	1.5	Tapered, Special Cast Iron Phosphate	.165	J66006-3937
		Second	1.75	Tapered Single Hooked Scraper, Special Cast Iron Phosphate	.165	
		Oil	3.0	Double-beveled with Coil Spring, Cast Iron Phosphate	.150	
102mm	4.0157	Top	1.5	Tapered, Special Cast Iron Phosphate	.165	J66006-4016
		Second	1.75	Tapered Single Hooked Scraper, Special Cast Iron Phosphate	.165	
		Oil	3.0	Double-beveled with Coil Spring, Cast Iron Phosphate	.150	

MOTORCYCLE RING SETS

4-STROKE MOTORCYCLE PISTON RINGS

All JE's rings can be used in cast iron, nickel ceramic platings (Nikasil), boron composite, and Electrofusion bores. CAUTION: With the exception of the XJ rings, JE's 4-stroke rings can NOT be used in chrome plated bores. Engine damage will occur. *XJ rings are designed to be used in chrome bores. All motorcycle rings are only listed on this page of the catalog.

TYPE	PRICE	BORE RANGE	TOP RING	SECOND RING	OIL RING
XA	$27.95 (D7761)	59 - 74.5mm (2.323-2.933")	0.8mm (.031") Alloy steel, ferrox coated, chrome faced	0.8mm (.031") Cast iron, phosphate coated, taper faced	1.5mm (.059") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
XC	$24.95 (D7941)	64-94mm (2.520-3.701")	1mm (.039") Alloy steel, ferrox coated, chrome faced	1.2mm (.047") Cast iron, phosphate coated, taper faced	2.8mm (.110") 3 piece oil assembly: Stainless steel spacer, chrome faced rails
XD	$24.95 (D7941)	66-68mm (2.598-2.677")	1mm (.039") Alloy steel, ferrox coated, chrome faced	1.2mm (.047") Cast iron, phosphate coated, taper faced	2mm (.079") 3 piece oil assembly: Stainless steel spacer, chrome faced rails
XE	$24.95 (D7941)	48-55mm (1.890-2.165")	1mm (.039") Alloy steel, ferrox coated, chrome faced	1.2mm (.047") Cast iron, phosphate coated, taper faced	2.5mm (.098") 3 piece oil assembly: Stainless steel spacer, chrome faced rails
XG	$24.95 (D7941)	75-83mm (2.953-3.268")	1mm (.039") Alloy steel, ferrox coated, chrome faced	1mm (.039") Cast iron, phosphate coated, taper faced	2mm (.079") 3 piece oil assembly: Stainless steel spacer, chrome faced rails
XH	$24.95 (D7941)	95-101mm (3.740-3.977")	1.2mm (.047") Alloy steel, ferrox coated, chrome faced	1.5mm (.057") Cast iron, phosphate coated, taper faced	4mm (.158") 3 piece oil assembly: Stainless steel spacer, chrome faced rails
***XJ**	$24.95 (D7941)	95mm (3.740")	1.2mm (.047") Soft nitrided, nodular cast iron	1.5mm (.057") Cast iron, phosphate coated, taper faced	4mm (.158") 3 piece oil assembly: Stainless steel spacer, soft nitrided rails
XK	$24.95 (D7941)	98.42 - 99.19mm (3.875 - 3.905")	1.5mm (.057") Cast iron, plasma moly faced	1.5mm (.057") Cast iron, reverse torsion	2.5mm (.098") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
XQ	$24.95 (D7941)	95.25 - 96.84mm (3.750 - 3.8125")	1.5mm (.057") Cast iron, moly faced	1.5mm (.057") Cast iron, reverse torsion	3mm (.118") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
XR	$24.95 (D7941)	90 - 94mm (3.543 - 3.701")	1mm (.039") Alloy steel, ferrox coated, chrome faced	1.2mm (.047") Cast iron, phosphate coated, taper faced	2mm (.079") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
XS	$24.95 (D7941)	95 - 103.1mm (3.740 - 4.059")	1.2mm (.047") Alloy steel, ferrox coated, chrome faced	1.5mm (.057") Cast iron, phosphate coated, taper faced	2mm (.079") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
XU	$41.70 (D2052)	77.00mm (3.031")	0.9mm (.035") Alloy steel, ferrox coated, chrome faced	0.8mm (.031") Alloy steel, ferrox coated, taper faced	1.5mm (.059") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
ZV	TBA	96mm (3.780)	1mm (.039") Alloy steel, gas nitrided flat faced	No Second Ring	2mm (.079") 3 piece oil assembly: Stainless steel flex-vent spacer, chrome faced rails
EK	$46.22 (D7903)	96 - 98mm (3.780 - 3.858")	0.7mm (.028") Alloy steel, flat faced	1.2mm (.047") Cast iron, phosphate coated, taper faced	2mm (.079") 2 piece cast iron oil assembly, phosphate coated

RING SETS BY AXIAL HEIGHT

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
.043-.043-3/16	4.000	L	J72008-4000-5
.043-.043-3/16	4.030	L	J72008-4030-5
.043-.043-3/16	4.040	L	J72008-4040-5
.043-.043-3/16	4.060	L	J72008-4060-5
.043-.043-3/16	4.125	L	J72008-4125-5
.043-.043-3/16	4.130	L	J72008-4130-5
.043-.043-3/16	4.155	L	J72008-4155-5
.043-.043-3/16	4.165	L	J72008-4165-5
.043-.043-3/16	4.000	S	J720F8-4000-5
.043-.043-3/16	4.030	S	J720F8-4030-5
.043-.043-3/16	4.040	S	J720F8-4040-5
.043-.043-3/16	4.060	S	J720F8-4060-5
.043-.043-3/16	4.125	S	J720F8-4125-5
.043-.043-3/16	4.130	S	J720F8-4130-5
.043-.043-3/16	4.155	S	J720F8-4155-5
.043-.043-3/16	4.165	S	J720F8-4165-5
.043-.043-3/16	4.600	L	J73008-4600-5
.043-.043-3/16	4.600	U	J730U8-4600-5
.043-.043-3/16	4.600	L	J87008-4600-5
.043-.043-3mm	4.060	L	J70008-4060-5
.043-.043-3mm	4.060	S	J700F8-4060-5
.043-.043-3mm	4.060	L	J70004-4060-5
.043-.043-3mm	4.185	L	J70004-4185-5
.043-.043-3mm	4.000	L	J70008-4000-5
.043-.043-3mm	4.020	L	J70008-4020-5
.043-.043-3mm	4.030	L	J70008-4030-0
.043-.043-3mm	4.030	L	J70008-4030-5
.043-.043-3mm	4.040	L	J70008-4040-0
.043-.043-3mm	4.040	L	J70008-4040-5
.043-.043-3mm	4.080	L	J70008-4080-5
.043-.043-3mm	4.120	L	J70008-4120-5
.043-.043-3mm	4.125	L	J70008-4125-5
.043-.043-3mm	4.130	L	J70008-4130-5
.043-.043-3mm	4.135	L	J70008-4135-5
.043-.043-3mm	4.145	L	J70008-4145-5
.043-.043-3mm	4.150	L	J70008-4150-0
.043-.043-3mm	4.155	L	J70008-4155-5
.043-.043-3mm	4.165	L	J70008-4165-5
.043-.043-3mm	4.175	L	J70008-4175-5
.043-.043-3mm	4.185	L	J70008-4185-5
.043-.043-3mm	4.190	L	J70008-4190-5
.043-.043-3mm	4.195	L	J70008-4195-5
.043-.043-3mm	4.205	L	J70008-4205-5
.043-.043-3mm	4.215	L	J70008-4215-5
.043-.043-3mm	4.030	S	J700F8-4030-5
.043-.043-3mm	4.040	S	J700F8-4040-5
.043-.043-3mm	4.125	S	J700F8-4125-5
.043-.043-3mm	4.135	S	J700F8-4135-5
.043-.043-3mm	4.145	S	J700F8-4145-5
.043-.043-3mm	4.155	S	J700F8-4155-5
.043-.043-3mm	4.165	S	J700F8-4165-5
.043-.043-3mm	4.625	L	J77008-4625-5
.043-.043-3mm	4.675	L	J77008-4675-5

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
.043-.043-3mm	4.600	U	J770U8-4600-5
.043-1.5-3mm	4.000	L	J70T08-4000-5
.043-1.5-3mm	4.020	L	J70T08-4020-5
.043-1.5-3mm	4.030	L	J70T08-4030-5
.043-1.5-3mm	4.040	L	J70T08-4040-0
.043-1.5-3mm	4.040	L	J70T08-4040-5
.043-1.5-3mm	4.060	L	J70T08-4060-5
.043-1.5-3mm	4.080	L	J70T08-4080-5
.043-1.5-3mm	4.120	L	J70T08-4120-5
.043-1.5-3mm	4.125	L	J70T08-4125-5
.043-1.5-3mm	4.130	L	J70T08-4130-5
.043-1.5-3mm	4.135	L	J70T08-4135-5
.043-1.5-3mm	4.145	L	J70T08-4145-5
.043-1.5-3mm	4.150	L	J70T08-4150-5
.043-1.5-3mm	4.155	L	J70T08-4155-5
.043-1.5-3mm	4.165	L	J70T08-4165-5
.043-1.5-3mm	4.030	S	J70TF8-4030-5
.043-1.5-3mm	4.040	S	J70TF8-4040-0
.043-1.5-3mm	4.040	S	J70TF8-4040-5
.043-1.5-3mm	4.060	S	J70TF8-4060-5
.043-1.5-3mm	4.120	S	J70TF8-4120-5
.043-1.5-3mm	4.125	S	J70TF8-4125-5
.043-1.5-3mm	4.135	S	J70TF8-4135-5
.043-1.5-3mm	4.145	S	J70TF8-4145-5
.043-1.5-3mm	4.150	S	J70TF8-4150-5
.043-1.5-3mm	4.155	S	J70TF8-4155-5
.043-1.5-3mm	4.165	S	J70TF8-4165-5
.043-1/16-3/16	4.000	L	J20008-4000-5
.043-1/16-3/16	4.020	L	J20008-4020-5
.043-1/16-3/16	4.030	L	J20008-4030-5
.043-1/16-3/16	4.040	L	J20008-4040-5
.043-1/16-3/16	4.060	L	J20008-4060-5
.043-1/16-3/16	4.080	L	J20008-4080-5
.043-1/16-3/16	4.125	L	J20008-4125-5
.043-1/16-3/16	4.130	L	J20008-4130-5
.043-1/16-3/16	4.145	L	J20008-4145-5
.043-1/16-3/16	4.155	L	J20008-4155-5
.043-1/16-3/16	4.280	L	J20008-4280-5
.043-1/16-3/16	4.310	L	J20008-4310-5
.043-1/16-3/16	4.375	L	J20008-4375-5
.043-1/16-3/16	4.440	L	J20008-4440-5
.043-1/16-3/16	4.500	L	J20008-4500-5
.043-1/16-3/16	4.530	L	J20008-4530-5
.043-1/16-3/16	4.560	L	J20008-4560-5
.043-1/16-3/16	4.375	S	J200F8-4.375-5
.043-1/16-3/16	4.000	S	J200F8-4000-5
.043-1/16-3/16	4.020	S	J200F8-4020-5
.043-1/16-3/16	4.030	S	J200F8-4030-5
.043-1/16-3/16	4.040	S	J200F8-4040-5
.043-1/16-3/16	4.060	S	J200F8-4060-5
.043-1/16-3/16	4.080	S	J200F8-4080-5
.043-1/16-3/16	4.125	S	J200F8-4125-5
.043-1/16-3/16	4.130	S	J200F8-4130-5

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
.043-1/16-3/16	4.145	S	J200F8-4145-5
.043-1/16-3/16	4.155	S	J200F8-4155-5
.043-1/16-3/16	4.310	S	J200F8-4310-5
.043-1/16-3/16	4.440	S	J200F8-4440-5
.043-1/16-3/16	4.500	S	J200F8-4500-5
.043-1/16-3/16	4.530	S	J200F8-4530-5
.043-1/16-3/16	4.560	H	J200H8-4560-5
.043-1/16-3/16	4.600	L	J200L8-4600-5
.043-1/16-3/16	4.600	U	J200U8-4600-5
.043-1/16-3/16	4.600	L	J711L8-4600-5
.043-1/16-3/16	4.600	U	J711U8-4600-5
.043-1/16-3/16	4.030	L	J84008-4030-5
.043-1/16-3/16	4.060	L	J84008-4060-5
.043-1/16-3/16	4.125	L	J84008-4125-5
.043-1/16-3/16	4.155	L	J84008-4155-5
.043-1/16-3/16	4.165	L	J84008-4165-5
.043-1/16-3/16	4.500	L	J84008-4500-5
.043-1/16-3/16	4.030	S	J840F8-4030-5
.043-1/16-3/16	4.060	S	J840F8-4060-5
.043-1/16-3/16	4.125	S	J840F8-4125-5
.043-1/16-3/16	4.155	S	J840F8-4155-5
.043-1/16-3/16	4.165	S	J840F8-4165-5
.043-1/16-3/16	4.185	S	J840F8-4185-5
.043-1/16-3/16	4.500	S	J840F8-4500-5
.043-1/16-3/16	4.560	H	J840H8-4560-5
.043-1/16-3/16	4.600	L	J840L8-4600-5
.043-1/16-3/16	4.600	U	J840U8-4600-5
.043-1/16-3/16	4.500	L	J86008-4500-5
.043-1/16-3/16	4.530	L	J86008-4530-5
.043-1/16-3/16	4.560	L	J86008-4560-5
.043-1/16-3/16	4.500	S	J860F8-4500-5
.043-1/16-3/16	4.530	S	J860F8-4530-5
.043-1/16-3/16	4.580	S	J860F8-4580-5
.043-1/16-3/16	4.625	S	J860F8-4625-5
.043-1/16-3/16	4.560	H	J860H8-4560-5
.043-1/16-3/16	4.610	H	J860H8-4610-5
.043-1/16-3/16	4.600	L	J860L8-4600-5
.043-1/16-3/16	4.600	U	J860U8-4600-5
.043-1/16-3mm	4.000	L	J40008-4000-5
.043-1/16-3mm	4.020	L	J40008-4020-5
.043-1/16-3mm	4.030	L	J40008-4030-5
.043-1/16-3mm	4.040	L	J40008-4040-5
.043-1/16-3mm	4.060	L	J40008-4060-5
.043-1/16-3mm	4.125	L	J40008-4125-5
.043-1/16-3mm	4.155	L	J40008-4155-5
.043-1/16-3mm	4.030	S	J400F8-4030-5
.043-1/16-3mm	4.040	S	J400F8-4040-5
.043-1/16-3mm	4.060	S	J400F8-4060-5
.043-1/16-3mm	4.125	S	J400F8-4125-5
.043-1/16-3mm	4.155	S	J400F8-4155-5
.043-1/16-3mm	4.600	S	J400F8-4600-5
.043-1/16-3mm	4.600	U	J400U8-4600-5
.043-1/16-3mm	4.030	L	J76008-4030-5

RING SETS BY AXIAL HEIGHT

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
.043-1/16-3mm	4.060	L	J76008-4060-5
.043-1/16-3mm	4.080	L	J76008-4080-5
.043-1/16-3mm	4.125	L	J76008-4125-5
.043-1/16-3mm	4.130	L	J76008-4130-5
.043-1/16-3mm	4.030	S	J760F8-4030-5
.043-1/16-3mm	4.060	S	J760F8-4060-5
.043-1/16-3mm	4.125	S	J760F8-4125-5
017-1/16-3/16	4.185	S	J880F8-4185-5
017-1/16-3/16	4.310	S	J880F8-4310-5
017-1/16-3/16	4.375	S	J880F8-4375-5
017-1/16-3/16	4.185	H	J880H8-4185-5
017-1/16-3/16	4.250	H	J880H8-4250-5
017-1/16-3/16	4.310	H	J880H8-4310-5
017-1/16-3/16	4.375	H	J880H8-4375-5
017-1/16-3/16	4.185	S	J890F8-4185-5
017-1/16-3/16	4.250	S	J890F8-4250-5
017-1/16-3/16	4.375	S	J890F8-4375-5
017-1/16-3/16	4.185	H	J890H8-4185-5
017-1/16-3/16	4.250	H	J890H8-4250-5
017-1/16-3/16	4.375	H	J890H8-4375-5
017-1/16-3/17	4.250	S	J880F8-4250-5
1.0-1.2-2.5mm	3.661	L	JG4008-3661
1.0-1.2-2.5mm	3.661	L	JG4108-3661
1.0-1.2-2.8mm	2.854	L	JC2504-2854
1.0-1.2-2.8mm	3.209	L	JC2604-3209
1.0-1.2-2.8mm	2.874	L	JG1004-2874
1.0-1.2-2.8mm	2.953	L	JG1004-2953
1.0-1.2-2.8mm	2.972	L	JG1004-2972
1.0-1.2-2.8mm	2.992	L	JG1004-2992
1.0-1.2-2.8mm	3.110	L	JG1004-3110
1.0-1.2-2.8mm	3.189	L	JG1004-3189
1.0-1.2-2.8mm	3.209	L	JG1004-3209
1.0-1.2-2.8mm	3.228	L	JG1004-3228
1.0-1.2-2.8mm	3.250	L	JG1004-3250
1.0-1.2-2.8mm	3.268	L	JG1004-3268
1.0-1.2-2.8mm	3.287	L	JG1004-3287
1.0-1.2-2.8mm	3.307	L	JG1004-3307
1.0-1.2-2.8mm	3.327	L	JG1004-3327
1.0-1.2-2.8mm	3.346	L	JG1004-3346
1.0-1.2-2.8mm	3.366	L	JG1004-3366
1.0-1.2-2.8mm	3.386	L	JG1004-3386
1.0-1.2-2.8mm	3.405	L	JG1004-3405
1.0-1.2-2.8mm	3.425	L	JG1004-3425
1.0-1.2-2.8mm	3.445	L	JG1004-3445
1.0-1.2-2.8mm	3.465	L	JG1004-3465
1.0-1.2-2.8mm	3.484	L	JG1004-3484
1.0-1.2-2.8mm	3.504	L	JG1004-3504
1.0-1.2-2.8mm	3.543	L	JG1004-3543
1.0-1.2-2.8mm	3.583	L	JG1004-3583
1.0-1.2-2.8mm	3.622	L	JG1004-3622
1.0-1.2-2.8mm	3.642	L	JG1004-3642
1.0-1.2-2.8mm	3.661	L	JG1004-3661
1.0-1.2-2.8mm	3.701	L	JG1004-3701

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.0-1.2-2.8mm	3.228	L	JG1006-3228
1.0-1.2-2.8mm	3.268	L	JG1006-3268
1.0-1.2-2.8mm	3.287	L	JG1006-3287
1.0-1.2-2.8mm	3.307	L	JG1006-3307
1.0-1.2-2.8mm	2.953	S	JXC0F4-2953-2
1.0-1.2-2.8mm	2.963	S	JXC0F4-2963-0
1.0-1.2-2.8mm	2.972	S	JXC0F4-2972-2
1.0-1.2-2.8mm	3.189	S	JXC0F4-3189-3
1.0-1.2-2.8mm	3.199	S	JXC0F4-3199-0
1.0-1.2-2.8mm	3.209	S	JXC0F4-3209-0
1.0-1.2-2.8mm	3.209	S	JXC0F4-3209-2
1.0-1.2-2.8mm	3.228	S	JXC0F4-3228-0
1.0-1.2-2.8mm	3.228	S	JXC0F4-3228-2
1.0-1.2-2.8mm	3.248	S	JXC0F4-3248-2
1.0-1.2-2.8mm	3.268	S	JXC0F4-3268-0
1.0-1.2-2.8mm	3.268	S	JXC0F4-3268-2
1.0-1.2-2.8mm	3.287	S	JXC0F4-3287-0
1.0-1.2-2.8mm	3.287	S	JXC0F4-3287-2
1.0-1.2-2.8mm	3.307	S	JXC0F4-3307-0
1.0-1.2-2.8mm	3.307	S	JXC0F4-3307-2
1.0-1.2-2.8mm	3.327	S	JXC0F4-3327-0
1.0-1.2-2.8mm	3.346	S	JXC0F4-3346-0
1.0-1.2-2.8mm	3.346	S	JXC0F4-3346-2
1.0-1.2-2.8mm	3.425	S	JXC0F4-3425-0
1.0-1.2-2.8mm	3.425	S	JXC0F4-3425-2
1.0-1.2-2.8mm	3.445	S	JXC0F4-3445-0
1.0-1.2-2.8mm	3.504	S	JXC0F4-3504-0
1.0-1.2-2.8mm	3.543	S	JXC0F4-3543-0
1.0-1.2-2.8mm	3.228	S	JXC0F6-3228-0
1.0-1.2-2.8mm	3.228	S	JXC0F6-3228-2
1.0-1.2-2.8mm	3.268	S	JXC0F6-3268-0
1.0-1.2-2.8mm	3.268	S	JXC0F6-3268-2
1.0-1.2-2.8mm	3.287	S	JXC0F6-3287-0
1.0-1.2-2.8mm	3.287	S	JXC0F6-3287-2
1.0-1.2-2.8mm	3.307	S	JXC0F6-3307-0
1.0-1.2-2.8mm	3.307	S	JXC0F6-3307-2
1.2-.043-3mm	4.000	L	J91108-4000-5
1.2-.043-3mm	4.020	L	J91108-4020-5
1.2-.043-3mm	4.030	L	J91108-4030-5
1.2-.043-3mm	4.040	L	J91108-4040-5
1.2-.043-3mm	4.060	L	J91108-4060-5
1.2-.043-3mm	4.080	L	J91108-4080-5
1.2-.043-3mm	4.120	L	J91108-4120-5
1.2-.043-3mm	4.125	L	J91108-4125-5
1.2-.043-3mm	4.130	L	J91108-4130-5
1.2-.043-3mm	4.155	L	J91108-4155-5
1.2-.043-3mm	4.165	L	J91108-4165-5
1.2-.043-3mm	4.185	L	J91108-4185-5
1.2-.043-3mm	4.190	L	J91108-4190-5
1.2-.043-3mm	4.195	L	J91108-4195-5
1.2-.043-3mm	4.030	S	J911F8-4030-5
1.2-.043-3mm	4.040	S	J911F8-4040-5
1.2-.043-3mm	4.060	S	J911F8-4060-5

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.2-.043-3mm	4.120	S	J911F8-4120-5
1.2-.043-3mm	4.125	S	J911F8-4125-5
1.2-.043-3mm	4.155	S	J911F8-4155-5
1.2-.043-3mm	4.165	S	J911F8-4165-5
1.2-1.2-2.5mm	3.760	L	JC2806-3760
1.2-1.2-2.5mm	3.504	L	JC7004-3504
1.2-1.2-2.5mm	3.524	L	JC7004-3524
1.2-1.2-2.8mm	3.386	L	JC0004-3386
1.2-1.2-2.8mm	3.425	L	JC0004-3425
1.2-1.2-2.8mm	3.543	L	JC1304-3543
1.2-1.2-2.8mm	3.445	L	JC8004-3445
1.2-1.2-2.8mm	3.031	L	JG0004-3031
1.2-1.2-2.8mm	3.051	L	JG0004-3051
1.2-1.2-2.8mm	3.071	L	JG0004-3071
1.2-1.2-3mm	4.125	L	J91308-4125-3
1.2-1.2-3mm	4.135	L	J91308-4135-3
1.2-1.2-3mm	4.125	S	J913F8-4125-3
1.2-1.2-3mm	4.000	L	J92008-4000-3
1.2-1.2-3mm	4.010	L	J92008-4010-3
1.2-1.2-3mm	4.020	L	J92008-4020-3
1.2-1.2-3mm	4.030	L	J92008-4030-3
1.2-1.2-3mm	4.035	L	J92008-4035-3
1.2-1.2-3mm	4.040	L	J92008-4040-3
1.2-1.2-3mm	4.060	L	J92008-4060-3
1.2-1.2-3mm	4.080	L	J92008-4080-3
1.2-1.2-3mm	4.155	L	J92008-4155-3
1.2-1.2-3mm	4.030	S	J920F8-4030-3
1.2-1.2-3mm	4.035	S	J920F8-4035-3
1.2-1.2-3mm	4.040	S	J920F8-4040-3
1.2-1.2-3mm	4.155	S	J920F8-4155-3
1.2-1.2-3mm	4.000	L	J93008-4000-5
1.2-1.2-3mm	4.010	L	J93008-4010-5
1.2-1.2-3mm	4.020	L	J93008-4020-5
1.2-1.2-3mm	4.030	L	J93008-4030-5
1.2-1.2-3mm	4.040	L	J93008-4040-5
1.2-1.2-3mm	4.050	L	J93008-4050-5
1.2-1.2-3mm	4.060	L	J93008-4060-5
1.2-1.2-3mm	4.070	L	J93008-4070-5
1.2-1.2-3mm	4.080	L	J93008-4080-5
1.2-1.2-3mm	4.125	L	J93008-4125-5
1.2-1.2-3mm	4.135	L	J93008-4135-5
1.2-1.2-3mm	4.145	L	J93008-4145-5
1.2-1.2-3mm	4.155	L	J93008-4155-5
1.2-1.2-3mm	4.030	S	J930F8-4030-5
1.2-1.2-3mm	4.040	S	J930F8-4040-5
1.2-1.2-3mm	4.060	S	J930F8-4060-5
1.2-1.2-3mm	4.125	S	J930F8-4125-5
1.2-1.2-3mm	4.135	S	J930F8-4135-5
1.2-1.2-3mm	4.145	S	J930F8-4145-5
1.2-1.2-3mm	4.155	S	J930F8-4155-5
1.2-1.2-3mm	3.110	L	JC1004-3110
1.2-1.2-3mm	3.465	L	JC1204-3465
1.2-1.2-3mm	3.386	L	JC2704-3386

RING SETS BY AXIAL HEIGHT

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.2-1.5-2.8mm	3.917	S	JC14F4-3917
1.2-1.5-2.8mm	3.071	L	JC3004-3071
1.2-1.5-2.8mm	3.091	L	JC3004-3091
1.2-1.5-2.8mm	2.953	L	JG3004-2953
1.2-1.5-2.8mm	2.963	L	JX0004-2963
1.2-1.5-2.8mm	4.000	L	J90008-4000-3
1.2-1.5-2.8mm	4.020	L	J90008-4020-3
1.2-1.5-2.8mm	4.030	L	J90008-4030-3
1.2-1.5-2.8mm	4.040	L	J90008-4040-3
1.2-1.5-2.8mm	4.060	L	J90008-4060-3
1.2-1.5-2.8mm	4.120	L	J90008-4120-3
1.2-1.5-2.8mm	4.125	L	J90008-4125-3
1.2-1.5-2.8mm	4.135	L	J90008-4135-3
1.2-1.5-2.8mm	4.145	L	J90008-4145-3
1.2-1.5-2.8mm	4.155	L	J90008-4155-3
1.2-1.5-2.8mm	4.165	L	J90008-4165-3
1.2-1.5-2.8mm	4.030	L	J90D08-4030-3
1.2-1.5-2.8mm	4.040	L	J90D08-4040-3
1.2-1.5-2.8mm	4.060	L	J90D08-4060-3
1.2-1.5-2.8mm	4.125	L	J90D08-4125-3
1.2-1.5-3/16	4.020	L	J96008-4020-5
1.2-1.5-3/16	4.030	L	J96008-4030-5
1.2-1.5-3/16	4.135	L	J96008-4135-5
1.2-1.5-3/16	4.145	L	J96008-4145-5
1.2-1.5-3/16	4.155	L	J96008-4155-5
1.2-1.5-3/16	4.020	S	J960F8-4020-5
1.2-1.5-3/16	4.030	S	J960F8-4030-5
1.2-1.5-3/16	4.135	S	J960F8-4135-5
1.2-1.5-3/16	4.145	S	J960F8-4145-5
1.2-1.5-3/16	4.155	S	J960F8-4155-5
1.2-1.5-3mm	4.030	L	J75008-4030-5
1.2-1.5-3mm	4.060	L	J75008-4060-5
1.2-1.5-3mm	4.125	L	J75008-4125-5
1.2-1.5-3mm	4.130	L	J75008-4130-5
1.2-1.5-3mm	4.135	L	J75008-4135-5
1.2-1.5-3mm	4.145	L	J75008-4145-5
1.2-1.5-3mm	4.155	L	J75008-4155-5
1.2-1.5-3mm	4.165	L	J75008-4165-5
1.2-1.5-3mm	4.170	L	J75008-4170-5
1.2-1.5-3mm	4.185	L	J75008-4185-5
1.2-1.5-3mm	4.030	S	J750F8-4030-5
1.2-1.5-3mm	4.060	S	J750F8-4060-5
1.2-1.5-3mm	4.125	S	J750F8-4125-5
1.2-1.5-3mm	4.135	S	J750F8-4135-5
1.2-1.5-3mm	4.145	S	J750F8-4145-5
1.2-1.5-3mm	4.165	S	J750F8-4165-5
1.2-1.5-3mm	4.000	L	J91008-4000-5
1.2-1.5-3mm	4.010	L	J91008-4010-5
1.2-1.5-3mm	4.020	L	J91008-4020-5
1.2-1.5-3mm	4.030	L	J91008-4030-5
1.2-1.5-3mm	4.040	L	J91008-4040-5
1.2-1.5-3mm	4.050	L	J91008-4050-5
1.2-1.5-3mm	4.060	L	J91008-4060-5

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.2-1.5-3mm	4.080	L	J91008-4080-5
1.2-1.5-3mm	4.090	L	J91008-4090-5
1.2-1.5-3mm	4.100	L	J91008-4100-5
1.2-1.5-3mm	4.120	L	J91008-4120-5
1.2-1.5-3mm	4.125	L	J91008-4125-5
1.2-1.5-3mm	4.130	L	J91008-4130-5
1.2-1.5-3mm	4.135	L	J91008-4135-5
1.2-1.5-3mm	4.140	L	J91008-4140-5
1.2-1.5-3mm	4.145	L	J91008-4145-5
1.2-1.5-3mm	4.150	L	J91008-4150-5
1.2-1.5-3mm	4.155	L	J91008-4155-5
1.2-1.5-3mm	4.165	L	J91008-4165-5
1.2-1.5-3mm	4.030	S	J910F8-4030-5
1.2-1.5-3mm	4.040	S	J910F8-4040-5
1.2-1.5-3mm	4.060	S	J910F8-4060-5
1.2-1.5-3mm	4.125	S	J910F8-4125-5
1.2-1.5-3mm	4.135	S	J910F8-4135-5
1.2-1.5-3mm	4.145	S	J910F8-4145-5
1.2-1.5-3mm	4.150	S	J910F8-4150-5
1.2-1.5-3mm	4.155	S	J910F8-4155-5
1.2-1.5-3mm	4.165	S	J910F8-4165-5
1.2-1.5-3mm	3.642	L	J91204-3642
1.2-1.5-3mm	4.120	L	J91208-4120-3
1.2-1.5-3mm	4.125	L	J91208-4125-3
1.2-1.5-3mm	4.135	L	J91208-4135-3
1.2-1.5-3mm	4.145	L	J91208-4145-3
1.2-1.5-3mm	4.155	L	J91208-4155-3
1.2-1.5-3mm	4.120	S	J912F8-4120-3
1.2-1.5-3mm	4.125	S	J912F8-4125-3
1.2-1.5-3mm	4.135	S	J912F8-4135-3
1.2-1.5-3mm	4.145	S	J912F8-4145-3
1.2-1.5-3mm	4.155	S	J912F8-4155-3
1.2-1.5-3mm	4.010	L	J94008-4010-3
1.2-1.5-3mm	4.020	L	J94008-4020-3
1.2-1.5-3mm	4.030	L	J94008-4030-3
1.2-1.5-3mm	4.040	L	J94008-4040-3
1.2-1.5-3mm	4.060	L	J94008-4060-3
1.2-1.5-3mm	4.080	L	J94008-4080-3
1.2-1.5-3mm	4.090	L	J94008-4090-3
1.2-1.5-3mm	4.100	L	J94008-4100-3
1.2-1.5-3mm	4.135	L	J94008-4135-3
1.2-1.5-3mm	4.165	L	J94008-4165-3
1.2-1.5-3mm	4.030	S	J940F8-4030-3
1.2-1.5-3mm	4.040	S	J940F8-4040-3
1.2-1.5-3mm	4.135	S	J940F8-4135-3
1.2-1.5-3mm	4.165	S	J940F8-4165-3
1.2-1.5-3mm	3.366	L	JC1904-3366
1.2-1.5-3mm	3.386	L	JC1904-3386
1.2-1.5-3mm	3.406	L	JC2104-3406
1.2-1.5-3mm	3.425	L	JC2104-3425
1.2-1.5-3mm	3.406	L	JC2106-3406
1.2-1.5-3mm	3.425	L	JC2106-3425
1.2-1.5-3mm	3.587	L	JC2204-3587

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.2-1.5-3mm	3.606	L	JC2206-3606
1.2-1.5-3mm	2.972	L	JC2304-2972
1.2-1.5-3mm	3.642	L	JC2404-3642
1.2-1.5-3mm	3.622	L	JC9004-3622
1.2-1.5-3mm	3.240	L	JG2604-3240
1.2-1.5-3mm	3.347	L	JG2704-3347
1.2-1.5-3mm	3.366	L	JG2704-3366
1.2-1.5-3mm	3.376	L	JG2704-3376
1.2-1.5-3mm	3.386	L	JG2804-3386
1.2-1.5-3mm	3.268	L	JG2904-3268
1.2-1.5-3mm	3.189	L	JG9004-3189
1.2-1.5-3mm	3.199	L	JG9004-3199
1.2-1.5-3mm	3.209	L	JG9004-3209
1.2-1.5-4mm	3.405	S	JC15F4-3405
1.2-1.5-4mm	3.031	L	JC1604-3031
1.2-1.5-4mm	3.051	L	JC1604-3051
1.2-1.5-4mm	3.150	L	JC1704-3150
1.2-1.5-4mm	3.622	L	JC4004-3622
1.2-1.5-4mm	3.642	L	JC4004-3642
1.2-1/16-3mm	4.000	L	J95008-4000-3
1.2-1/16-3mm	4.010	L	J95008-4010-3
1.2-1/16-3mm	4.020	L	J95008-4020-3
1.2-1/16-3mm	4.030	L	J95008-4030-3
1.2-1/16-3mm	4.060	L	J95008-4060-3
1.2-1/16-3mm	4.120	L	J95008-4120-3
1.2-1/16-3mm	4.125	L	J95008-4125-3
1.2-1/16-3mm	4.135	L	J95008-4135-3
1.2-1/16-3mm	4.145	L	J95008-4145-3
1.2-1/16-3mm	4.155	L	J95008-4155-3
1.2-1/16-3mm	4.165	L	J95008-4165-3
1.2-1/16-3mm	4.625	L	J95008-4625-3
1.2-1/16-3mm	4.030	S	J950F8-4030-3
1.2-1/16-3mm	4.135	S	J950F8-4135-3
1.2-1/16-3mm	4.165	S	J950F8-4165-3
1.5-.043-3mm	4.030	L	J60108-4030-5
1.5-.043-3mm	4.040	L	J60108-4040-0
1.5-.043-3mm	4.040	L	J60108-4040-5
1.5-.043-3mm	4.030	S	J601F8-4.030-5
1.5-.043-3mm	4.040	S	J601F8-4.040-0
1.5-.043-3mm	4.040	S	J601F8-4.040-5
1.5-1.5-2.8mm	3.445	S	JC50F6-3445
1.5-1.5-3/16	4.030	L	J69008-4030-5
1.5-1.5-3/16	4.040	L	J69008-4040-5
1.5-1.5-3/16	4.125	L	J69008-4125-5
1.5-1.5-3/16	4.130	L	J69008-4130-0
1.5-1.5-3/16	4.135	L	J69008-4135-5
1.5-1.5-3/16	4.155	L	J69008-4155-0
1.5-1.5-3/16	4.030	S	J690F8-4030-5
1.5-1.5-3/16	4.040	S	J690F8-4040-5
1.5-1.5-3/16	4.125	S	J690F8-4125-5
1.5-1.5-3/16	4.130	S	J690F8-4130-0
1.5-1.5-3/16	4.155	S	J690F8-4155-0
1.5-1.5-3/16	4.000	U	J690U8-4000-5

RING SETS BY AXIAL HEIGHT

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.5-1.5-3/16	4.135	U	J690U8-4135-5
1.5-1.5-3mm	3.552	L	J60008-3552-5
1.5-1.5-3mm	3.571	L	J60008-3571-5
1.5-1.5-3mm	3.900	L	J60008-3900-5
1.5-1.5-3mm	3.550	L	J68008-3550-5
1.5-1.5-3mm	3.570	L	J68008-3570-5
1.5-1.5-3mm	3.900	L	J68008-3900-3
1.5-1.5-3mm	3.910	L	J68008-3910-3
1.5-1.5-3mm	3.661	L	JC1804-3661
1.5-1.5-3mm	3.386	L	JC2904-3386
1.5-1.5-3mm	3.287	L	JC6004-3287
1.5-1.5-3mm	4.000	L	J60008-4000-5
1.5-1.5-3mm	4.020	L	J60008-4020-5
1.5-1.5-3mm	4.030	L	J60008-4030-0
1.5-1.5-3mm	4.030	L	J60008-4030-5
1.5-1.5-3mm	4.035	L	J60008-4035-5
1.5-1.5-3mm	4.040	L	J60008-4040-5
1.5-1.5-3mm	4.060	L	J60008-4060-5
1.5-1.5-3mm	4.080	L	J60008-4080-5
1.5-1.5-3mm	4.125	L	J60008-4125-0
1.5-1.5-3mm	4.125	L	J60008-4125-5
1.5-1.5-3mm	4.130	L	J60008-4130-0
1.5-1.5-3mm	4.135	L	J60008-4135-5
1.5-1.5-3mm	4.145	L	J60008-4145-5
1.5-1.5-3mm	4.155	L	J60008-4155-0
1.5-1.5-3mm	4.155	L	J60008-4155-5
1.5-1.5-3mm	4.165	L	J60008-4165-5
1.5-1.5-3mm	4.175	L	J60008-4175-5
1.5-1.5-3mm	4.185	L	J60008-4185-5
1.5-1.5-3mm	4.030	S	J600F8-4030-5
1.5-1.5-3mm	4.060	S	J600F8-4060-5
1.5-1.5-3mm	4.125	S	J600F8-4125-5
1.5-1.5-3mm	4.135	S	J600F8-4135-5
1.5-1.5-3mm	4.145	S	J600F8-4145-5
1.5-1.5-3mm	4.155	S	J600F8-4155-5
1.5-1.5-3mm	4.165	S	J600F8-4165-5
1.5-1.5-3mm	4.030	U	J600U8-4030-5
1.5-1.5-3mm	3.504	L	J61004-3504
1.5-1.5-3mm	3.543	H	J610H4-3543
1.5-1.5-3mm	3.700	L	J62004-3700
1.5-1.5-3mm	3.740	L	J62004-3740
1.5-1.5-3mm	3.780	L	J62004-3780
1.5-1.5-3mm	3.622	S	J610F4-3622
1.5-1.5-4mm	3.810	L	J64004-3810
1.5-1.5-4mm	3.820	L	J64004-3820
1.5-1.5-4mm	3.700	S	J630F4-3700
1.5-1.5-4mm	3.780	S	J630F4-3780
1.5-1.5-4mm	3.504	L	J64004-3504
1.5-1.5-4mm	3.740	L	J64004-3740
1.5-1.5-4mm	3.307	S	J640F4-3307
1.5-1.5-4mm	3.317	S	J640F4-3317
1.5-1.5-4mm	3.327	S	J640F4-3327
1.5-1.5-4mm	3.347	S	J640F4-3347

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1.5-1.5-4mm	3.543	S	J640F4-3543
1.5-1.5-4mm	3.820	S	J640F4-3820
1.5-1.5-4mm	3.366	S	J670F4-3366
1.5-1.5-4mm	3.405	S	JC11F4-3405
1.5-1.5-4mm	3.405	S	JC11F6-3405
1.5-1.5-4mm	3.504	L	JG2004-3504
1.5-1.5-4mm	3.514	L	JG2004-3514
1.5-1.5-4mm	3.524	L	JG2004-3524
1.5-1.5-4mm	3.534	L	JG2004-3534
1.5-1.5-4mm	3.425	L	JG2104-3425
1.5-1.5-4mm	3.445	L	JG2204-3445
1.5-1.5-4mm	3.484	L	JG2206-3484
1.5-1.5-4mm	3.455	L	JG2304-3455
1.5-1.5-4mm	3.465	L	JG2304-3465
1.5-1.5-4mm	3.587	L	JG2404-3587
1.5-1.5-4mm	3.626	L	JG2404-3626
1.5-1.5-4mm	3.642	L	JG2504-3642
1.5-1.5-4mm	3.652	L	JG2504-3652
1/16-1/16-3/16	3.820	L	J10002-3820-5
1/16-1/16-3/16	3.820	L	J10004-3820-5
1/16-1/16-3/16	3.820	L	J10006-3820-5
1/16-1/16-3/16	4.040	S	J820F8-4040-5
1/16-1/16-3/16	3.810	L	J10002-3810-5
1/16-1/16-3/16	3.810	L	J10004-3810-5
1/16-1/16-3/16	3.800	L	J10006-3800-5
1/16-1/16-3/16	3.810	L	J10006-3810-5
1/16-1/16-3/16	3.750	L	J10008-3750-5
1/16-1/16-3/16	3.796	L	J10008-3796-5
1/16-1/16-3/16	3.935	L	J10008-3935-5
1/16-1/16-3/16	4.000	L	J10008-4000-5
1/16-1/16-3/16	4.010	L	J10008-4010-0
1/16-1/16-3/16	4.020	L	J10008-4020-5
1/16-1/16-3/16	4.030	L	J10008-4030-5
1/16-1/16-3/16	4.040	L	J10008-4040-5
1/16-1/16-3/16	4.060	L	J10008-4060-5
1/16-1/16-3/16	4.080	L	J10008-4080-5
1/16-1/16-3/16	4.095	L	J10008-4095-5
1/16-1/16-3/16	4.120	L	J10008-4120-5
1/16-1/16-3/16	4.125	L	J10008-4125-5
1/16-1/16-3/16	4.130	L	J10008-4130-5
1/16-1/16-3/16	4.135	L	J10008-4135-5
1/16-1/16-3/16	4.145	L	J10008-4145-5
1/16-1/16-3/16	4.155	L	J10008-4155-5
1/16-1/16-3/16	4.165	L	J10008-4165-5
1/16-1/16-3/16	4.250	L	J10008-4250-5
1/16-1/16-3/16	4.280	L	J10008-4280-5
1/16-1/16-3/16	4.310	L	J10008-4310-5
1/16-1/16-3/16	4.320	L	J10008-4320-5
1/16-1/16-3/16	4.350	L	J10008-4350-5
1/16-1/16-3/16	4.360	L	J10008-4360-5
1/16-1/16-3/16	4.375	L	J10008-4375-5
1/16-1/16-3/16	4.390	L	J10008-4390-5
1/16-1/16-3/16	4.440	L	J10008-4440-5

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1/16-1/16-3/16	4.500	L	J10008-4500-5
1/16-1/16-3/16	4.530	L	J10008-4530-5
1/16-1/16-3/16	4.560	L	J10008-4560-5
1/16-1/16-3/16	3.810	L	J100F2-3810-5
1/16-1/16-3/16	3.820	S	J100F2-3820-5
1/16-1/16-3/16	3.830	S	J100F2-3830-5
1/16-1/16-3/16	3.810	L	J100F4-3810-5
1/16-1/16-3/16	3.820	S	J100F4-3820-5
1/16-1/16-3/16	3.810	L	J100F6-3810-5
1/16-1/16-3/16	3.820	S	J100F6-3820-5
1/16-1/16-3/16	3.830	S	J100F6-3830-5
1/16-1/16-3/16	3.756	S	J100F8-3756-5
1/16-1/16-3/16	3.766	S	J100F8-3766-5
1/16-1/16-3/16	4.000	S	J100F8-4000-5
1/16-1/16-3/16	4.010	S	J100F8-4010-0
1/16-1/16-3/16	4.020	S	J100F8-4020-5
1/16-1/16-3/16	4.030	S	J100F8-4030-5
1/16-1/16-3/16	4.040	S	J100F8-4040-5
1/16-1/16-3/16	4.060	S	J100F8-4060-5
1/16-1/16-3/16	4.070	S	J100F8-4070-5
1/16-1/16-3/16	4.080	S	J100F8-4080-5
1/16-1/16-3/16	4.120	S	J100F8-4120-5
1/16-1/16-3/16	4.125	S	J100F8-4125-5
1/16-1/16-3/16	4.130	S	J100F8-4130-5
1/16-1/16-3/16	4.135	S	J100F8-4135-5
1/16-1/16-3/16	4.145	S	J100F8-4145-5
1/16-1/16-3/16	4.155	S	J100F8-4155-5
1/16-1/16-3/16	4.165	S	J100F8-4165-5
1/16-1/16-3/16	4.185	S	J100F8-4185-5
1/16-1/16-3/16	4.210	S	J100F8-4210-5
1/16-1/16-3/16	4.250	S	J100F8-4250-5
1/16-1/16-3/16	4.280	S	J100F8-4280-5
1/16-1/16-3/16	4.310	S	J100F8-4310-5
1/16-1/16-3/16	4.320	S	J100F8-4320-5
1/16-1/16-3/16	4.350	S	J100F8-4350-5
1/16-1/16-3/16	4.360	S	J100F8-4360-5
1/16-1/16-3/16	4.375	S	J100F8-4375-5
1/16-1/16-3/16	4.390	S	J100F8-4390-5
1/16-1/16-3/16	4.440	S	J100F8-4440-5
1/16-1/16-3/16	4.500	S	J100F8-4500-5
1/16-1/16-3/16	4.530	S	J100F8-4530-5
1/16-1/16-3/16	4.580	S	J100F8-4580-5
1/16-1/16-3/16	4.625	S	J100F8-4625-5
1/16-1/16-3/16	4.560	H	J100H8-4560-5
1/16-1/16-3/16	4.610	H	J100H8-4610-5
1/16-1/16-3/16	4.070	L	J100L8-4070-5
1/16-1/16-3/16	4.600	L	J100L8-4600-5
1/16-1/16-3/16	4.030	S	J100S8-4030-5
1/16-1/16-3/16	4.470	S	J100S8-4470-5
1/16-1/16-3/16	4.600	U	J100U8-4600-5
1/16-1/16-3/16	4.000	L	J50008-4000-5
1/16-1/16-3/16	4.020	L	J50008-4020-5
1/16-1/16-3/16	4.030	L	J50008-4030-5

RING SETS BY AXIAL HEIGHT

AXIAL HEIGHT	BORE	TENSION	RING SET PART NUMBER
1/16-1/16-3/16	4.040	L	J50008-4040-5
1/16-1/16-3/16	4.060	L	J50008-4060-5
1/16-1/16-3/16	4.080	L	J50008-4080-5
1/16-1/16-3/16	4.120	L	J50008-4120-5
1/16-1/16-3/16	4.125	L	J50008-4125-5
1/16-1/16-3/16	4.130	L	J50008-4130-5
1/16-1/16-3/16	4.135	L	J50008-4135-5
1/16-1/16-3/16	4.145	L	J50008-4145-5
1/16-1/16-3/16	4.155	L	J50008-4155-5
1/16-1/16-3/16	4.165	L	J50008-4165-5
1/16-1/16-3/16	4.000	S	J500F8-4000-5
1/16-1/16-3/16	4.020	S	J500F8-4020-5
1/16-1/16-3/16	4.030	S	J500F8-4030-5
1/16-1/16-3/16	4.040	S	J500F8-4040-5
1/16-1/16-3/16	4.060	S	J500F8-4060-5
1/16-1/16-3/16	4.080	S	J500F8-4080-5
1/16-1/16-3/16	4.120	S	J500F8-4120-5
1/16-1/16-3/16	4.125	S	J500F8-4125-5
1/16-1/16-3/16	4.130	S	J500F8-4130-5
1/16-1/16-3/16	4.135	S	J500F8-4135-5
1/16-1/16-3/16	4.145	S	J500F8-4145-5
1/16-1/16-3/16	4.155	S	J500F8-4155-5
1/16-1/16-3/16	4.165	S	J500F8-4165-5
1/16-1/16-3/16	4.000	L	J82008-4000-5
1/16-1/16-3/16	4.030	L	J82008-4030-5
1/16-1/16-3/16	4.040	L	J82008-4040-5
1/16-1/16-3/16	4.060	L	J82008-4060-5
1/16-1/16-3/16	4.125	L	J82008-4125-5
1/16-1/16-3/16	4.155	L	J82008-4155-5
1/16-1/16-3/16	4.165	L	J82008-4165-5
1/16-1/16-3/16	4.280	L	J82008-4280-5
1/16-1/16-3/16	4.310	L	J82008-4310-5
1/16-1/16-3/16	4.500	L	J82008-4500-5
1/16-1/16-3/16	4.530	L	J82008-4530-5
1/16-1/16-3/16	4.600	L	J82008-4600-5
1/16-1/16-3/16	4.000	S	J820F8-4000-5
1/16-1/16-3/16	4.030	S	J820F8-4030-5
1/16-1/16-3/16	4.060	S	J820F8-4060-5
1/16-1/16-3/16	4.125	S	J820F8-4125-5
1/16-1/16-3/16	4.155	S	J820F8-4155-5
1/16-1/16-3/16	4.165	S	J820F8-4165-5
1/16-1/16-3/16	4.185	S	J820F8-4185-5
1/16-1/16-3/16	4.280	S	J820F8-4280-5
1/16-1/16-3/16	4.310	S	J820F8-4310-5
1/16-1/16-3/16	4.500	S	J820F8-4500-5
1/16-1/16-3/16	4.530	S	J820F8-4530-5
1/16-1/16-3/16	4.560	H	J820H8-4560-5
1/16-1/16-3/16	4.020	S	S100S8-4020-5
1/16-1/16-3/16	4.030	S	S100S8-4030-5
1/16-1/16-3/16	4.040	S	S100S8-4040-5
1/16-1/16-3/16	4.060	S	S100S8-4060-5
1/16-1/16-3/16	4.125	S	S100S8-4125-5
1/16-1/16-3/16	4.145	S	S100S8-4145-5
1/16-1/16-3/16	4.155	S	S100S8-4155-5
1/16-1/16-3/16	4.165	S	S100S8-4165-5
1/16-1/16-3/16	4.280	S	S100S8-4280-5
1/16-1/16-3/16	4.310	S	S100S8-4310-5
1/16-1/16-3/16	4.350	S	S100S8-4350-5
1/16-1/16-3/16	4.390	S	S100S8-4390-5
1/16-1/16-3/16	4.500	S	S100S8-4500-5
1/16-1/16-3/16	4.530	S	S100S8-4530-5
1/16-1/16-3/16	4.560	S	S100S8-4560-5
1/16-1/16-3/16	4.600	S	S100S8-4600-5
1/16-1/16-3mm	3.810	S	J300F4-3810-5
1/16-1/16-3mm	3.810	S	J300F6-3810-5
1/16-1/16-3mm	4.000	L	J30008-4000-5
1/16-1/16-3mm	4.010	L	J30008-4010-0
1/16-1/16-3mm	4.020	L	J30008-4020-5
1/16-1/16-3mm	4.030	L	J30008-4030-5
1/16-1/16-3mm	4.040	L	J30008-4040-5
1/16-1/16-3mm	4.060	L	J30008-4060-5
1/16-1/16-3mm	4.070	L	J30008-4070-5
1/16-1/16-3mm	4.080	L	J30008-4080-5
1/16-1/16-3mm	4.095	L	J30008-4095-5
1/16-1/16-3mm	4.120	L	J30008-4120-5
1/16-1/16-3mm	4.125	L	J30008-4125-5
1/16-1/16-3mm	4.130	L	J30008-4130-5
1/16-1/16-3mm	4.135	L	J30008-4135-5
1/16-1/16-3mm	4.145	L	J30008-4145-5
1/16-1/16-3mm	4.155	L	J30008-4155-5
1/16-1/16-3mm	4.165	L	J30008-4165-5
1/16-1/16-3mm	4.185	L	J30008-4185-5
1/16-1/16-3mm	4.500	L	J30008-4500-5
1/16-1/16-3mm	4.030	S	J300F8-4030-5
1/16-1/16-3mm	4.040	S	J300F8-4040-5
1/16-1/16-3mm	4.060	S	J300F8-4060-5
1/16-1/16-3mm	4.125	S	J300F8-4125-5
1/16-1/16-3mm	4.135	S	J300F8-4135-5
1/16-1/16-3mm	4.145	S	J300F8-4145-5
1/16-1/16-3mm	4.155	S	J300F8-4155-5
1/16-1/16-3mm	4.165	S	J300F8-4165-5
1/16-1/16-3mm	4.600	S	J300F8-4600-5
1/16-1/16-3mm	4.600	U	J300U8-4600-5
2.0-1.5-4mm	4.468	L	J83008-4468
2.0-5/64-3/16	4.468	L	J85008-4468

PART NUMBER LEGEND

PRO *STEEL* PLASMA MOLY

J680	1.5mm	CMR	1.5mm	IPT	3mm	CUF
J750	1.2mm	CMR	1.5mm	IPE	3mm	CUF

"HNS" HARDENED NITROUS SERIES

J820	1/16	HPB	1/16	IPT	3/16	CUF/S
J840	.043	HPB	1/16	IPT	3/16	CUF/S
J860	.043	HPR	1/16	IPT	3/16	CUF/S
J870	.043	HPR	.043	DPC	3/16	CUS
J890	D017	HPD	1/16	IPT	3/16	CUF/S

PREMIUM SPORTSMAN SERIES PLASMA MOLY

J100	1/16	DMB	1/16	IPT	3/16	CUF/L/S
J200	.043	DMB	1/16	IPT	3/16	CUF/S
J300	1/16	DMB	1/16	IPT	3mm	CUF
J400	.043	DMB	1/16	IPT	3mm	CUF
J500	1/16	DMB	1/16	IPG	3/16	CUF
J600	1.5mm	DMR	1.5mm	IPC	3mm	CUF
J601	1.5mm	DMR	.043	IPC	3mm	CUF
J610	1.5mm	DMB	1.5mm	IPT	3mm	CUF
J620	1.5mm	DMK	1.5mm	IPT	3mm	CUF
J630	1.5mm	DMK	1.5mm	IPT	4mm	CUF
J640	1.5mm	DMB	1.5mm	IPT	4mm	CUF
J670	1.5mm	CMS	1.5mm	IPT	3mm	CUS
J690	1.5mm	DMR	1.5mm	IPC	3/16	CUF
J700	.043	DMR	.043	IPC	3mm	CUF
J70T	.043	DMR	1.5mm	IPC	3mm	CUF
J711	.043	DMR	1/16	IPT	3/16	CUS
J720	.043	DMR	.043	IPC	3/16	CUF
J730	.043	DMR	.043	IPT	3/16	CUF
J760	.043	DMR	1/16	IPT	3mm	CUF
J770	.043	DMR	.043	IPT	3mm	CUF
J830	2mm	DMK	1.5mm	IPT	4mm	CUF
J850	2mm	DMK	5/64	IPT	3/16	CUF
J880	017	DMD	1/16	IPT	3/16	CUF
J900	1.2mm	SGR	1.5mm	IPC	2.8mm	SNF
J90D	1.2mm	SGR	1.5mm	IPC	2.8mm	SNF
J910	1.2mm	DMR	1.5mm	IPC	3mm	CUF
J911	1.2mm	DMR	.043	IPC	3mm	CUF
J912	1.2mm	CUS	1.5mm	IPC	3mm	CUF
J913	1.2mm	CUS	1.2mm	DPA	3mm	CUF
J920	1.2mm	SDR	1.2mm	DPA	3mm	CUF
J930	1.2mm	DMR	1.2mm	DPA	3mm	CUF
J940	1.2mm	SGR	1.5mm	IPC	3mm	CUF
J950	1.2mm	SGR	1/16	IPT	3m	CUF
J960	1.2mm	DMR	1.5mm	IPC	3/16	CUF

SMALL BORE & SPORT COMPACT RINGS SETS

JXC0	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC00	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC10	1.2, 1.2 ,3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC11	1.5, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC12	1.2, 1.2, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC13	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC14	1.2, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC15	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC16	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC17	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC18	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC19	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd

SMALL BORE & SPORT COMPACT RINGS SETS

JC20	1.5, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC21	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC22	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC23	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC24	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC25	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC26	1.0, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC27	1.2, 1.2, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC28	1.2, 1.2, 2.5mm, Steel Chrome Face Top, Premium Iron 2nd
JC29	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC30	1.2, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC40	1.2, 1.5, 4.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC50	1.5, 1.5, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC60	1.5, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JC70	1.2, 1.2, 2.5mm, Steel Chrome Face Top, Premium Iron 2nd
JC80	1.2, 1.2, 2.8mm, Steel Chrome Face Top, Premium Iron 2nd
JC90	1.2, 1.5, 3.0mm, Steel Chrome Face Top, Premium Iron 2nd
JG00	1.2, 1.2, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG10	1.0, 1.2, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG20	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG21	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG22	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG23	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG24	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG25	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG26	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG27	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG28	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG29	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG30	1.2, 1.5, 2.8mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG60	1.5, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
JG90	1.2, 1.5, 3.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J640	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J614	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J615	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J616	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd
J670	1.5, 1.5, 4.0mm, Steel Gas Nitrided Top, Premium Iron 2nd

SPORTSMAN PLASMA MOLY RING SETS

S100S	1/16, 1/16, 3/16 Ductile Iron, Plasma Moly Top

JE PRO SEAL MOTORCYCLE RINGS

J100K	1/16, 1/16, 4mm Ductile Iron Plasma Moly Top
J100F	1/16, 1/16, 3/16, Std Tension
XA	0.8, 0.8, 1.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
XC	1.0, 1.2, 2.8mm Alloy Steel, Ferrox Coated, Chrome Face Top
XD	1.0, 1.2, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XE	1.0, 1.2, 2.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
XG	1.0, 1.0, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XH	1.2, 1.5, 4mm Alloy Steel, Ferrox Coated, Chrome Face Top
XR	1.0, 1.2, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XS	1.2, 1.5, 2mm Alloy Steel, Ferrox Coated, Chrome Face Top
XU	0.9, 0.8, 1.5mm Alloy Steel, Ferrox Coated, Chrome Face Top
EK	0.7, 1.2, 2mm Alloy Steel, Flat Face Top
ZV	1.0, 2mm Alloy Steel, Gas Nitrided Flat Face Top (2 ring set)
XJ	1.2, 1.5, 4mm Soft Nitrided, Ductile Iron Top
XK	1.5, 1.5, 2.5mm Ductile Iron Plasma Moly Top
XQ	1.5, 1.5, 3mm Cast Iron Plasma Moly Top

RING SETS BY BORE SIZE

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
2.854	1.0-1.2-2.8mm	L	JC2504-2854
2.874	1.0-1.2-2.8mm	L	JG1004-2874
2.953	1.0-1.2-2.8mm	L	JG1004-2953
2.953	1.2-1.5-2.8mm	L	JG3004-2953
2.953	1.0-1.2-2.8mm	S	JXC0F4-2953-2
2.963	1.2-1.5-2.8mm	L	JX0004-2963
2.963	1.0-1.2-2.8mm	S	JXC0F4-2963-0
2.972	1.2-1.5-3mm	L	JC2304-2972
2.972	1.0-1.2-2.8mm	L	JG1004-2972
2.972	1.0-1.2-2.8mm	S	JXC0F4-2972-2
2.992	1.0-1.2-2.8mm	L	JG1004-2992
3.031	1.2-1.5-4mm	L	JC1604-3031
3.031	1.2-1.2-2.8mm	L	JG0004-3031
3.051	1.2-1.5-4mm	L	JC1604-3051
3.051	1.2-1.2-2.8mm	L	JG0004-3051
3.071	1.2-1.5-2.8mm	L	JC3004-3071
3.071	1.2-1.2-2.8mm	L	JG0004-3071
3.091	1.2-1.5-2.8mm	L	JC3004-3091
3.110	1.2-1.2-3mm	L	JC1004-3110
3.110	1.0-1.2-2.8mm	L	JG1004-3110
3.150	1.2-1.5-4mm	L	JC1704-3150
3.189	1.0-1.2-2.8mm	L	JG1004-3189
3.189	1.2-1.5-3mm	L	JG9004-3189
3.189	1.0-1.2-2.8mm	S	JXC0F4-3189-3
3.199	1.2-1.5-3mm	L	JG9004-3199
3.199	1.0-1.2-2.8mm	S	JXC0F4-3199-0
3.209	1.0-1.2-2.8mm	L	JC2604-3209
3.209	1.0-1.2-2.8mm	L	JG1004-3209
3.209	1.2-1.5-3mm	L	JG9004-3209
3.209	1.0-1.2-2.8mm	S	JXC0F4-3209-0
3.209	1.0-1.2-2.8mm	S	JXC0F4-3209-2
3.228	1.0-1.2-2.8mm	L	JG1004-3228
3.228	1.0-1.2-2.8mm	L	JG1006-3228
3.228	1.0-1.2-2.8mm	S	JXC0F4-3228-0
3.228	1.0-1.2-2.8mm	S	JXC0F4-3228-2
3.228	1.0-1.2-2.8mm	S	JXC0F6-3228-0
3.228	1.0-1.2-2.8mm	S	JXC0F6-3228-2
3.240	1.2-1.5-3mm	L	JG2604-3240
3.248	1.0-1.2-2.8mm	S	JXC0F4-3248-2
3.250	1.0-1.2-2.8mm	L	JG1004-3250
3.268	1.0-1.2-2.8mm	L	JG1004-3268
3.268	1.0-1.2-2.8mm	L	JG1006-3268
3.268	1.2-1.5-3mm	L	JG2904-3268
3.268	1.0-1.2-2.8mm	S	JXC0F4-3268-0
3.268	1.0-1.2-2.8mm	S	JXC0F4-3268-2
3.268	1.0-1.2-2.8mm	S	JXC0F6-3268-0
3.268	1.0-1.2-2.8mm	S	JXC0F6-3268-2
3.287	1.5-1.5-3mm	L	JC6004-3287
3.287	1.0-1.2-2.8mm	L	JG1004-3287
3.287	1.0-1.2-2.8mm	L	JG1006-3287
3.287	1.0-1.2-2.8mm	S	JXC0F4-3287-0
3.287	1.0-1.2-2.8mm	S	JXC0F4-3287-2
3.287	1.0-1.2-2.8mm	S	JXC0F6-3287-0

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
3.287	1.0-1.2-2.8mm	S	JXC0F6-3287-2
3.307	1.5-1.5-4mm	S	J640F4-3307
3.307	1.0-1.2-2.8mm	L	JG1004-3307
3.307	1.0-1.2-2.8mm	L	JG1006-3307
3.307	1.0-1.2-2.8mm	S	JXC0F4-3307-0
3.307	1.0-1.2-2.8mm	S	JXC0F4-3307-2
3.307	1.0-1.2-2.8mm	S	JXC0F6-3307-0
3.307	1.0-1.2-2.8mm	S	JXC0F6-3307-2
3.317	1.5-1.5-4mm	S	J640F4-3317
3.327	1.5-1.5-4mm	S	J640F4-3327
3.327	1.0-1.2-2.8mm	L	JG1004-3327
3.327	1.0-1.2-2.8mm	S	JXC0F4-3327-0
3.346	1.0-1.2-2.8mm	L	JG1004-3346
3.346	1.0-1.2-2.8mm	S	JXC0F4-3346-0
3.346	1.0-1.2-2.8mm	S	JXC0F4-3346-2
3.347	1.5-1.5-4mm	S	J640F4-3347
3.347	1.2-1.5-3mm	L	JG2704-3347
3.366	1.5-1.5-4mm	S	J670F4-3366
3.366	1.2-1.5-3mm	L	JC1904-3366
3.366	1.0-1.2-2.8mm	L	JG1004-3366
3.366	1.2-1.5-3mm	L	JG2704-3366
3.376	1.2-1.5-3mm	L	JG2704-3376
3.386	1.2-1.2-2.8mm	L	JC0004-3386
3.386	1.2-1.5-3mm	L	JC1904-3386
3.386	1.2-1.2-3mm	L	JC2704-3386
3.386	1.5-1.5-3mm	L	JC2904-3386
3.386	1.0-1.2-2.8mm	L	JG1004-3386
3.386	1.2-1.5-3mm	L	JG2804-3386
3.405	1.5-1.5-4mm	S	JC11F4-3405
3.405	1.5-1.5-4mm	S	JC11F6-3405
3.405	1.2-1.5-4mm	S	JC15F4-3405
3.405	1.0-1.2-2.8mm	L	JG1004-3405
3.406	1.2-1.5-3mm	L	JC2104-3406
3.406	1.2-1.5-3mm	L	JC2106-3406
3.425	1.2-1.2-2.8mm	L	JC0004-3425
3.425	1.2-1.5-3mm	L	JC2104-3425
3.425	1.2-1.5-3mm	L	JC2106-3425
3.425	1.0-1.2-2.8mm	L	JG1004-3425
3.425	1.5-1.5-4mm	L	JG2104-3425
3.425	1.0-1.2-2.8mm	S	JXC0F4-3425-0
3.425	1.0-1.2-2.8mm	S	JXC0F4-3425-2
3.445	1.5-1.5-2.8mm	S	JC50F6-3445
3.445	1.2-1.2-2.8mm	L	JC8004-3445
3.445	1.0-1.2-2.8mm	L	JG1004-3445
3.445	1.5-1.5-4mm	L	JG2204-3445
3.445	1.0-1.2-2.8mm	S	JXC0F4-3445-0
3.455	1.5-1.5-4mm	L	JG2304-3455
3.465	1.2-1.2-3mm	L	JC1204-3465
3.465	1.0-1.2-2.8mm	L	JG1004-3465
3.465	1.5-1.5-4mm	L	JG2304-3465
3.484	1.0-1.2-2.8mm	L	JG1004-3484
3.484	1.5-1.5-4mm	L	JG2206-3484
3.504	1.5-1.5-3mm	L	J61004-3504

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
3.504	1.5-1.5-4mm	L	J64004-3504
3.504	1.2-1.2-2.5mm	L	JC7004-3504
3.504	1.0-1.2-2.8mm	L	JG1004-3504
3.504	1.5-1.5-4mm	L	JG2004-3504
3.504	1.0-1.2-2.8mm	S	JXC0F4-3504-0
3.514	1.5-1.5-4mm	L	JG2004-3514
3.524	1.2-1.2-2.5mm	L	JC7004-3524
3.524	1.5-1.5-4mm	L	JG2004-3524
3.534	1.5-1.5-4mm	L	JG2004-3534
3.543	1.5-1.5-3mm	H	J610H4-3543
3.543	1.5-1.5-4mm	S	J640F4-3543
3.543	1.2-1.2-2.8mm	L	JC1304-3543
3.543	1.0-1.2-2.8mm	L	JG1004-3543
3.543	1.0-1.2-2.8mm	S	JXC0F4-3543-0
3.550	1.5-1.5-3mm	L	J68008-3550-5
3.552	1.5-1.5-3mm	L	J60008-3552-5
3.570	1.5-1.5-3mm	L	J68008-3570-5
3.571	1.5-1.5-3mm	L	J60008-3571-5
3.583	1.0-1.2-2.8mm	L	JG1004-3583
3.587	1.2-1.5-3mm	L	JC2204-3587
3.587	1.5-1.5-4mm	L	JG2404-3587
3.606	1.2-1.5-3mm	L	JC2206-3606
3.622	1.5-1.5-3mm	S	J610F4-3622
3.622	1.2-1.5-4mm	L	JC4004-3622
3.622	1.2-1.5-3mm	L	JC9004-3622
3.622	1.0-1.2-2.8mm	L	JG1004-3622
3.626	1.5-1.5-4mm	L	JG2404-3626
3.642	1.2-1.5-3mm	L	J91204-3642
3.642	1.2-1.5-3mm	L	JC2404-3642
3.642	1.2-1.5-4mm	L	JC4004-3642
3.642	1.0-1.2-2.8mm	L	JG1004-3642
3.642	1.5-1.5-4mm	L	JG2504-3642
3.652	1.5-1.5-4mm	L	JG2504-3652
3.661	1.5-1.5-3mm	L	JC1804-3661
3.661	1.0-1.2-2.8mm	L	JG1004-3661
3.661	1.0-1.2-2.5mm	L	JG4008-3661
3.661	1.0-1.2-2.5mm	L	JG4108-3661
3.700	1.5-1.5-3mm	L	J62004-3700
3.700	1.5-1.5-4mm	S	J630F4-3700
3.701	1.0-1.2-2.8mm	L	JG1004-3701
3.740	1.5-1.5-3mm	L	J62004-3740
3.740	1.5-1.5-4mm	L	J64004-3740
3.750	1/16-1/16-3/16	L	J10008-3750-5
3.756	1/16-1/16-3/16	S	J100F8-3756-5
3.760	1.2-1.2-2.5mm	L	JC2806-3760
3.766	1/16-1/16-3/16	S	J100F8-3766-5
3.780	1.5-1.5-3mm	L	J62004-3780
3.780	1.5-1.5-4mm	S	J630F4-3780
3.796	1/16-1/16-3/16	L	J10008-3796-5
3.800	1/16-1/16-3/16	L	J10006-3800-5
3.810	1/16-1/16-3/16	L	J10002-3810-5
3.810	1/16-1/16-3/16	L	J10004-3810-5
3.810	1/16-1/16-3/16	L	J10006-3810-5

RING SETS BY BORE SIZE

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
3.810	1/16-1/16-3/16	L	J100F2-3810-5
3.810	1/16-1/16-3/16	L	J100F4-3810-5
3.810	1/16-1/16-3/16	L	J100F6-3810-5
3.810	1/16-1/16-3mm	S	J300F4-3810-5
3.810	1/16-1/16-3mm	S	J300F6-3810-5
3.810	1.5-1.5-4mm	L	J64004-3810
3.820	1/16-1/16-3/16	L	J10002-3820-5
3.820	1/16-1/16-3/16	L	J10004-3820-5
3.820	1/16-1/16-3/16	L	J10006-3820-5
3.820	1/16-1/16-3/16	S	J100F2-3820-5
3.820	1/16-1/16-3/16	S	J100F4-3820-5
3.820	1/16-1/16-3/16	S	J100F6-3820-5
3.820	1.5-1.5-4mm	L	J64004-3820
3.820	1.5-1.5-4mm	S	J640F4-3820
3.830	1/16-1/16-3/16	S	J100F2-3830-5
3.830	1/16-1/16-3/16	S	J100F6-3830-5
3.900	1.5-1.5-3mm	L	J60008-3900-5
3.900	1.5-1.5-3mm	L	J68008-3900-3
3.910	1.5-1.5-3mm	L	J68008-3910-3
3.917	1.2-1.5-2.8mm	S	JC14F4-3917
3.935	1/16-1/16-3/16	L	J10008-3935-5
4.000	1/16-1/16-3/16	L	J10008-4000-5
4.000	1/16-1/16-3/16	S	J100F8-4000-5
4.000	.043-1/16-3/16	L	J20008-4000-5
4.000	.043-1/16-3/16	S	J200F8-4000-5
4.000	1/16-1/16-3mm	L	J30008-4000-5
4.000	.043-1/16-3mm	L	J40008-4000-5
4.000	1/16-1/16-3/16	L	J50008-4000-5
4.000	1/16-1/16-3/16	S	J500F8-4000-5
4.000	1.5-1.5-3mm	L	J60008-4000-5
4.000	1.5-1.5-3/16	U	J690U8-4000-5
4.000	.043-.043-3mm	L	J70008-4000-5
4.000	.043-1.5-3mm	L	J70T08-4000-5
4.000	.043-.043-3/16	L	J72008-4000-5
4.000	.043-.043-3/16	S	J720F8-4000-5
4.000	1/16-1/16-3/16	L	J82008-4000-5
4.000	1/16-1/16-3/16	S	J820F8-4000-5
4.000	1.2-1.5-2.8mm	L	J90008-4000-3
4.000	1.2-1.5-3mm	L	J91008-4000-5
4.000	1.2-.043-3mm	L	J91108-4000-5
4.000	1.2-1.2-3mm	L	J92008-4000-3
4.000	1.2-1.2-3mm	L	J93008-4000-5
4.000	1.2-1/16-3mm	L	J95008-4000-3
4.010	1/16-1/16-3/16	L	J10008-4010-0
4.010	1/16-1/16-3/16	S	J100F8-4010-0
4.010	1/16-1/16-3mm	L	J30008-4010-0
4.010	1.2-1.5-3mm	L	J91008-4010-5
4.010	1.2-1.2-3mm	L	J92008-4010-3
4.010	1.2-1.2-3mm	L	J93008-4010-5
4.010	1.2-1.5-3mm	L	J94008-4010-3
4.010	1.2-1/16-3mm	L	J95008-4010-3
4.020	1/16-1/16-3/16	L	J10008-4020-5
4.020	1/16-1/16-3/16	S	J100F8-4020-5
4.020	.043-1/16-3/16	L	J20008-4020-5
4.020	.043-1/16-3/16	S	J200F8-4020-5
4.020	1/16-1/16-3mm	L	J30008-4020-5
4.020	.043-1/16-3mm	L	J40008-4020-5
4.020	1/16-1/16-3/16	L	J50008-4020-5
4.020	1/16-1/16-3/16	S	J500F8-4020-5
4.020	1.5-1.5-3mm	L	J60008-4020-5
4.020	.043-.043-3mm	L	J70008-4020-5
4.020	.043-1.5-3mm	L	J70T08-4020-5
4.020	1.2-1.5-2.8mm	L	J90008-4020-3
4.020	1.2-1.5-3mm	L	J91008-4020-5
4.020	1.2-.043-3mm	L	J91108-4020-5
4.020	1.2-1.2-3mm	L	J92008-4020-3
4.020	1.2-1.2-3mm	L	J93008-4020-5
4.020	1.2-1.5-3mm	L	J94008-4020-3
4.020	1.2-1/16-3mm	L	J95008-4020-3
4.020	1.2-1.5-3/16	L	J96008-4020-5
4.020	1.2-1.5-3/16	S	J960F8-4020-5
4.020	1/16-1/16-3/16	S	S100S8-4020-5
4.030	1/16-1/16-3/16	L	J10008-4030-5
4.030	1/16-1/16-3/16	S	J100F8-4030-5
4.030	1/16-1/16-3/16	S	J100S8-4030-5
4.030	.043-1/16-3/16	L	J20008-4030-5
4.030	.043-1/16-3/16	S	J200F8-4030-5
4.030	1/16-1/16-3mm	L	J30008-4030-5
4.030	1/16-1/16-3mm	S	J300F8-4030-5
4.030	.043-1/16-3mm	L	J40008-4030-5
4.030	.043-1/16-3mm	S	J400F8-4030-5
4.030	1/16-1/16-3/16	L	J50008-4030-5
4.030	1/16-1/16-3/16	S	J500F8-4030-5
4.030	1.5-1.5-3mm	L	J60008-4030-0
4.030	1.5-1.5-3mm	L	J60008-4030-5
4.030	1.5-1.5-3mm	S	J600F8-4030-5
4.030	1.5-1.5-3mm	U	J600U8-4030-5
4.030	1.5-.043-3mm	L	J60108-4030-5
4.030	1.5-.043-3mm	S	J601F8-4.030-5
4.030	1.5-1.5-3/16	L	J69008-4030-5
4.030	1.5-1.5-3/16	S	J690F8-4030-5
4.030	.043-.043-3mm	L	J70008-4030-0
4.030	.043-.043-3mm	L	J70008-4030-5
4.030	.043-.043-3mm	S	J700F8-4030-5
4.030	.043-1.5-3mm	L	J70T08-4030-5
4.030	.043-1.5-3mm	S	J70TF8-4030-5
4.030	.043-.043-3/16	L	J72008-4030-5
4.030	.043-.043-3/16	S	J720F8-4030-5
4.030	1.2-1.5-3mm	L	J75008-4030-5
4.030	1.2-1.5-3mm	S	J750F8-4030-5
4.030	.043-1/16-3mm	L	J76008-4030-5
4.030	.043-1/16-3mm	S	J760F8-4030-5
4.030	1/16-1/16-3/16	L	J82008-4030-5
4.030	1/16-1/16-3/16	S	J820F8-4030-5
4.030	.043-1/16-3/16	L	J84008-4030-5
4.030	.043-1/16-3/16	S	J840F8-4030-5
4.030	1.2-1.5-2.8mm	L	J90008-4030-3
4.030	1.2-1.5-2.8mm	L	J90D08-4030-3
4.030	1.2-1.5-3mm	L	J91008-4030-5
4.030	1.2-1.5-3mm	S	J910F8-4030-5
4.030	1.2-.043-3mm	L	J91108-4030-5
4.030	1.2-.043-3mm	S	J911F8-4030-5
4.030	1.2-1.2-3mm	L	J92008-4030-3
4.030	1.2-1.2-3mm	S	J920F8-4030-3
4.030	1.2-1.2-3mm	L	J93008-4030-5
4.030	1.2-1.2-3mm	S	J930F8-4030-5
4.030	1.2-1.5-3mm	L	J94008-4030-3
4.030	1.2-1.5-3mm	S	J940F8-4030-3
4.030	1.2-1/16-3mm	L	J95008-4030-3
4.030	1.2-1/16-3mm	S	J950F8-4030-3
4.030	1.2-1.5-3/16	L	J96008-4030-5
4.030	1.2-1.5-3/16	S	J960F8-4030-5
4.030	1/16-1/16-3/16	S	S100S8-4030-5
4.035	1.5-1.5-3mm	L	J60008-4035-5
4.035	1.2-1.2-3mm	L	J92008-4035-3
4.035	1.2-1.2-3mm	S	J920F8-4035-3
4.040	1/16-1/16-3/16	L	J10008-4040-5
4.040	1/16-1/16-3/16	S	J100F8-4040-5
4.040	.043-1/16-3/16	L	J20008-4040-5
4.040	.043-1/16-3/16	S	J200F8-4040-5
4.040	1/16-1/16-3mm	L	J30008-4040-5
4.040	1/16-1/16-3mm	S	J300F8-4040-5
4.040	.043-1/16-3mm	L	J40008-4040-5
4.040	.043-1/16-3mm	S	J400F8-4040-5
4.040	1/16-1/16-3/16	L	J50008-4040-5
4.040	1/16-1/16-3/16	S	J500F8-4040-5
4.040	1.5-1.5-3mm	L	J60008-4040-5
4.040	1.5-.043-3mm	L	J60108-4040-0
4.040	1.5-.043-3mm	L	J60108-4040-5
4.040	1.5-.043-3mm	S	J601F8-4.040-0
4.040	1.5-.043-3mm	S	J601F8-4.040-5
4.040	1.5-1.5-3/16	L	J69008-4040-5
4.040	1.5-1.5-3/16	S	J690F8-4040-5
4.040	.043-.043-3mm	L	J70008-4040-0
4.040	.043-.043-3mm	L	J70008-4040-5
4.040	.043-.043-3mm	S	J700F8-4040-5
4.040	.043-1.5-3mm	L	J70T08-4040-0
4.040	.043-1.5-3mm	L	J70T08-4040-5
4.040	.043-1.5-3mm	S	J70TF8-4040-0
4.040	.043-1.5-3mm	S	J70TF8-4040-5
4.040	.043-.043-3/16	L	J72008-4040-5
4.040	.043-.043-3/16	S	J720F8-4040-5
4.040	1/16-1/16-3/16	L	J82008-4040-5
4.040	1/16-1/16-3/16	S	J820F8-4040-5
4.040	1.2-1.5-2.8mm	L	J90008-4040-3
4.040	1.2-1.5-2.8mm	L	J90D08-4040-3
4.040	1.2-1.5-3mm	L	J91008-4040-5
4.040	1.2-1.5-3mm	S	J910F8-4040-5
4.040	1.2-.043-3mm	L	J91108-4040-5

RING SETS BY BORE SIZE

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.040	1.2-.043-3mm	S	J911F8-4040-5
4.040	1.2-1.2-3mm	L	J92008-4040-3
4.040	1.2-1.2-3mm	S	J920F8-4040-3
4.040	1.2-1.2-3mm	L	J93008-4040-5
4.040	1.2-1.2-3mm	S	J930F8-4040-5
4.040	1.2-1.5-3mm	L	J94008-4040-3
4.040	1.2-1.5-3mm	S	J940F8-4040-3
4.040	1/16-1/16-3/16	S	S100S8-4040-5
4.050	1.2-1.5-3mm	L	J91008-4050-5
4.050	1.2-1.2-3mm	L	J93008-4050-5
4.060	1/16-1/16-3/16	L	J10008-4060-5
4.060	1/16-1/16-3/16	S	J100F8-4060-5
4.060	.043-1/16-3/16	L	J20008-4060-5
4.060	.043-1/16-3/16	S	J200F8-4060-5
4.060	1/16-1/16-3mm	L	J30008-4060-5
4.060	1/16-1/16-3mm	S	J300F8-4060-5
4.060	.043-1/16-3mm	L	J40008-4060-5
4.060	.043-1/16-3mm	S	J400F8-4060-5
4.060	1/16-1/16-3/16	L	J50008-4060-5
4.060	1/16-1/16-3/16	S	J500F8-4060-5
4.060	1.5-1.5-3mm	L	J60008-4060-5
4.060	1.5-1.5-3mm	S	J600F8-4060-5
4.060	.043-.043-3mm	L	J70004-4060-5
4.060	.043-.043-3mm	L	J70008-4060-5
4.060	.043-.043-3mm	S	J700F8-4060-5
4.060	.043-1.5-3mm	L	J70T08-4060-5
4.060	.043-1.5-3mm	S	J70TF8-4060-5
4.060	.043-.043-3/16	L	J72008-4060-5
4.060	.043-.043-3/16	S	J720F8-4060-5
4.060	1.2-1.5-3mm	L	J75008-4060-5
4.060	1.2-1.5-3mm	S	J750F8-4060-5
4.060	.043-1/16-3mm	L	J76008-4060-5
4.060	.043-1/16-3mm	S	J760F8-4060-5
4.060	1/16-1/16-3/16	L	J82008-4060-5
4.060	1/16-1/16-3/16	S	J820F8-4060-5
4.060	.043-1/16-3/16	L	J84008-4060-5
4.060	.043-1/16-3/16	S	J840F8-4060-5
4.060	1.2-1.5-2.8mm	L	J90008-4060-3
4.060	1.2-1.5-2.8mm	L	J90D08-4060-3
4.060	1.2-1.5-3mm	L	J91008-4060-5
4.060	1.2-1.5-3mm	S	J910F8-4060-5
4.060	1.2-.043-3mm	L	J91108-4060-5
4.060	1.2-.043-3mm	S	J911F8-4060-5
4.060	1.2-1.2-3mm	L	J92008-4060-3
4.060	1.2-1.2-3mm	L	J93008-4060-5
4.060	1.2-1.2-3mm	S	J930F8-4060-5
4.060	1.2-1.5-3mm	L	J94008-4060-3
4.060	1.2-1/16-3mm	L	J95008-4060-3
4.060	1/16-1/16-3/16	S	S100S8-4060-5
4.070	1/16-1/16-3/16	S	J100F8-4070-5
4.070	1/16-1/16-3/16	L	J100L8-4070-5
4.070	1/16-1/16-3mm	L	J30008-4070-5
4.070	1.2-1.2-3mm	L	J93008-4070-5

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.080	1/16-1/16-3/16	L	J10008-4080-5
4.080	1/16-1/16-3/16	S	J100F8-4080-5
4.080	.043-1/16-3/16	L	J20008-4080-5
4.080	.043-1/16-3/16	S	J200F8-4080-5
4.080	1/16-1/16-3mm	L	J30008-4080-5
4.080	1/16-1/16-3/16	L	J50008-4080-5
4.080	1/16-1/16-3/16	S	J500F8-4080-5
4.080	1.5-1.5-3mm	L	J60008-4080-5
4.080	.043-.043-3mm	L	J70008-4080-5
4.080	.043-1.5-3mm	L	J70T08-4080-5
4.080	.043-1/16-3mm	L	J76008-4080-5
4.080	1.2-1.5-3mm	L	J91008-4080-5
4.080	1.2-.043-3mm	L	J91108-4080-5
4.080	1.2-1.2-3mm	L	J92008-4080-3
4.080	1.2-1.2-3mm	L	J93008-4080-5
4.080	1.2-1.5-3mm	L	J94008-4080-3
4.090	1.2-1.5-3mm	L	J91008-4090-5
4.090	1.2-1.5-3mm	L	J94008-4090-3
4.095	1/16-1/16-3/16	L	J10008-4095-5
4.095	1/16-1/16-3mm	L	J30008-4095-5
4.100	1.2-1.5-3mm	L	J91008-4100-5
4.100	1.2-1.5-3mm	L	J94008-4100-3
4.120	1/16-1/16-3/16	L	J10008-4120-5
4.120	1/16-1/16-3/16	S	J100F8-4120-5
4.120	1/16-1/16-3mm	L	J30008-4120-5
4.120	1/16-1/16-3/16	L	J50008-4120-5
4.120	1/16-1/16-3/16	S	J500F8-4120-5
4.120	.043-.043-3mm	L	J70008-4120-5
4.120	.043-1.5-3mm	L	J70T08-4120-5
4.120	.043-1.5-3mm	S	J70TF8-4120-5
4.120	1.2-1.5-2.8mm	L	J90008-4120-3
4.120	1.2-1.5-3mm	L	J91008-4120-5
4.120	1.2-.043-3mm	L	J91108-4120-5
4.120	1.2-.043-3mm	S	J911F8-4120-5
4.120	1.2-1.5-3mm	L	J91208-4120-3
4.120	1.2-1.5-3mm	S	J912F8-4120-3
4.120	1.2-1/16-3mm	L	J95008-4120-3
4.125	1/16-1/16-3/16	L	J10008-4125-5
4.125	1/16-1/16-3/16	S	J100F8-4125-5
4.125	.043-1/16-3/16	L	J20008-4125-5
4.125	.043-1/16-3/16	S	J200F8-4125-5
4.125	1/16-1/16-3mm	L	J30008-4125-5
4.125	1/16-1/16-3mm	S	J300F8-4125-5
4.125	.043-1/16-3mm	L	J40008-4125-5
4.125	.043-1/16-3mm	S	J400F8-4125-5
4.125	1/16-1/16-3/16	L	J50008-4125-5
4.125	1/16-1/16-3/16	S	J500F8-4125-5
4.125	1.5-1.5-3mm	L	J60008-4125-0
4.125	1.5-1.5-3mm	L	J60008-4125-5
4.125	1.5-1.5-3mm	S	J600F8-4125-5
4.125	1.5-1.5-3/16	L	J69008-4125-5
4.125	1.5-1.5-3/16	S	J690F8-4125-5
4.125	.043-.043-3mm	L	J70008-4125-5

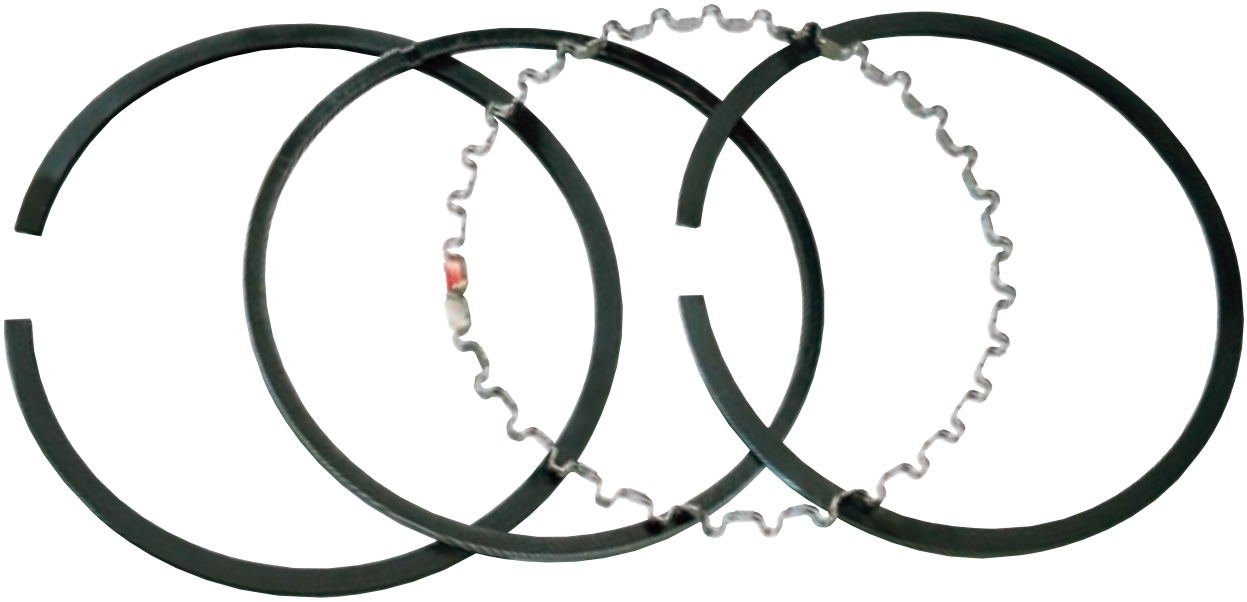
BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.125	.043-.043-3mm	S	J700F8-4125-5
4.125	.043-1.5-3mm	L	J70T08-4125-5
4.125	.043-1.5-3mm	S	J70TF8-4125-5
4.125	.043-.043-3/16	L	J72008-4125-5
4.125	.043-.043-3/16	S	J720F8-4125-5
4.125	1.2-1.5-3mm	L	J75008-4125-5
4.125	1.2-1.5-3mm	S	J750F8-4125-5
4.125	.043-1/16-3mm	L	J76008-4125-5
4.125	.043-1/16-3mm	S	J760F8-4125-5
4.125	1/16-1/16-3/16	L	J82008-4125-5
4.125	1/16-1/16-3/16	S	J820F8-4125-5
4.125	.043-1/16-3/16	L	J84008-4125-5
4.125	.043-1/16-3/16	S	J840F8-4125-5
4.125	1.2-1.5-2.8mm	L	J90008-4125-3
4.125	1.2-1.5-2.8mm	L	J90D08-4125-3
4.125	1.2-1.5-3mm	L	J91008-4125-5
4.125	1.2-1.5-3mm	S	J910F8-4125-5
4.125	1.2-.043-3mm	L	J91108-4125-5
4.125	1.2-.043-3mm	S	J911F8-4125-5
4.125	1.2-1.5-3mm	L	J91208-4125-3
4.125	1.2-1.5-3mm	S	J912F8-4125-3
4.125	1.2-1.2-3mm	L	J91308-4125-3
4.125	1.2-1.2-3mm	S	J913F8-4125-3
4.125	1.2-1.2-3mm	L	J93008-4125-5
4.125	1.2-1.2-3mm	S	J930F8-4125-5
4.125	1.2-1/16-3mm	L	J95008-4125-3
4.125	1/16-1/16-3/16	S	S100S8-4125-5
4.130	1/16-1/16-3/16	L	J10008-4130-5
4.130	1/16-1/16-3/16	S	J100F8-4130-5
4.130	.043-1/16-3/16	L	J20008-4130-5
4.130	.043-1/16-3/16	S	J200F8-4130-5
4.130	1/16-1/16-3mm	L	J30008-4130-5
4.130	1/16-1/16-3/16	L	J50008-4130-5
4.130	1/16-1/16-3/16	S	J500F8-4130-5
4.130	1.5-1.5-3mm	L	J60008-4130-0
4.130	1.5-1.5-3/16	L	J69008-4130-0
4.130	1.5-1.5-3/16	S	J690F8-4130-0
4.130	.043-.043-3mm	L	J70008-4130-5
4.130	.043-1.5-3mm	L	J70T08-4130-5
4.130	.043-.043-3/16	L	J72008-4130-5
4.130	.043-.043-3/16	S	J720F8-4130-5
4.130	1.2-1.5-3mm	L	J75008-4130-5
4.130	.043-1/16-3mm	L	J76008-4130-5
4.130	1.2-1.5-3mm	L	J91008-4130-5
4.130	1.2-.043-3mm	L	J91108-4130-5
4.135	1/16-1/16-3/16	L	J10008-4135-5
4.135	1/16-1/16-3/16	S	J100F8-4135-5
4.135	1/16-1/16-3mm	L	J30008-4135-5
4.135	1/16-1/16-3mm	S	J300F8-4135-5
4.135	1/16-1/16-3/16	L	J50008-4135-5
4.135	1/16-1/16-3/16	S	J500F8-4135-5
4.135	1.5-1.5-3mm	L	J60008-4135-5
4.135	1.5-1.5-3mm	S	J600F8-4135-5

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.135	1.5-1.5-3/16	L	J69008-4135-5
4.135	1.5-1.5-3/16	U	J690U8-4135-5
4.135	.043-.043-3mm	L	J70008-4135-5
4.135	.043-.043-3mm	S	J700F8-4135-5
4.135	.043-1.5-3mm	L	J70T08-4135-5
4.135	.043-1.5-3mm	S	J70TF8-4135-5
4.135	1.2-1.5-3mm	L	J75008-4135-5
4.135	1.2-1.5-3mm	S	J750F8-4135-5
4.135	1.2-1.5-2.8mm	L	J90008-4135-3
4.135	1.2-1.5-3mm	L	J91008-4135-5
4.135	1.2-1.5-3mm	S	J910F8-4135-5
4.135	1.2-1.5-3mm	L	J91208-4135-3
4.135	1.2-1.5-3mm	S	J912F8-4135-3
4.135	1.2-1.2-3mm	L	J91308-4135-3
4.135	1.2-1.2-3mm	L	J93008-4135-5
4.135	1.2-1.2-3mm	S	J930F8-4135-5
4.135	1.2-1.5-3mm	L	J94008-4135-3
4.135	1.2-1.5-3mm	S	J940F8-4135-3
4.135	1.2-1/16-3mm	L	J95008-4135-3
4.135	1.2-1/16-3mm	S	J950F8-4135-3
4.135	1.2-1.5-3/16	L	J96008-4135-5
4.135	1.2-1.5-3/16	S	J960F8-4135-5
4.140	1.2-1.5-3mm	L	J91008-4140-5
4.145	1/16-1/16-3/16	L	J10008-4145-5
4.145	1/16-1/16-3/16	S	J100F8-4145-5
4.145	.043-1/16-3/16	L	J20008-4145-5
4.145	.043-1/16-3/16	S	J200F8-4145-5
4.145	1/16-1/16-3mm	L	J30008-4145-5
4.145	1/16-1/16-3mm	S	J300F8-4145-5
4.145	1/16-1/16-3/16	L	J50008-4145-5
4.145	1/16-1/16-3/16	S	J500F8-4145-5
4.145	1.5-1.5-3mm	L	J60008-4145-5
4.145	1.5-1.5-3mm	S	J600F8-4145-5
4.145	.043-.043-3mm	L	J70008-4145-5
4.145	.043-.043-3mm	S	J700F8-4145-5
4.145	.043-1.5-3mm	L	J70T08-4145-5
4.145	.043-1.5-3mm	S	J70TF8-4145-5
4.145	1.2-1.5-3mm	L	J75008-4145-5
4.145	1.2-1.5-3mm	S	J750F8-4145-5
4.145	1.2-1.5-2.8mm	L	J90008-4145-3
4.145	1.2-1.5-3mm	L	J91008-4145-5
4.145	1.2-1.5-3mm	S	J910F8-4145-5
4.145	1.2-1.5-3mm	L	J91208-4145-3
4.145	1.2-1.5-3mm	S	J912F8-4145-3
4.145	1.2-1.2-3mm	L	J93008-4145-5
4.145	1.2-1.2-3mm	S	J930F8-4145-5
4.145	1.2-1/16-3mm	L	J95008-4145-3
4.145	1.2-1.5-3/16	L	J96008-4145-5
4.145	1.2-1.5-3/16	S	J960F8-4145-5
4.145	1/16-1/16-3/16	S	S100S8-4145-5
4.150	.043-.043-3mm	L	J70008-4150-0
4.150	.043-1.5-3mm	L	J70T08-4150-5
4.150	.043-1.5-3mm	S	J70TF8-4150-5

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.150	1.2-1.5-3mm	L	J91008-4150-5
4.150	1.2-1.5-3mm	S	J910F8-4150-5
4.155	1/16-1/16-3/16	L	J10008-4155-5
4.155	1/16-1/16-3/16	S	J100F8-4155-5
4.155	.043-1/16-3/16	L	J20008-4155-5
4.155	.043-1/16-3/16	S	J200F8-4155-5
4.155	1/16-1/16-3mm	L	J30008-4155-5
4.155	1/16-1/16-3mm	S	J300F8-4155-5
4.155	.043-1/16-3mm	L	J40008-4155-5
4.155	.043-1/16-3mm	S	J400F8-4155-5
4.155	1/16-1/16-3/16	L	J50008-4155-5
4.155	1/16-1/16-3/16	S	J500F8-4155-5
4.155	1.5-1.5-3mm	L	J60008-4155-0
4.155	1.5-1.5-3mm	L	J60008-4155-5
4.155	1.5-1.5-3mm	S	J600F8-4155-5
4.155	1.5-1.5-3/16	L	J69008-4155-0
4.155	1.5-1.5-3/16	S	J690F8-4155-0
4.155	.043-.043-3mm	L	J70008-4155-5
4.155	.043-.043-3mm	S	J700F8-4155-5
4.155	.043-1.5-3mm	L	J70T08-4155-5
4.155	.043-1.5-3mm	S	J70TF8-4155-5
4.155	.043-.043-3/16	L	J72008-4155-5
4.155	.043-.043-3/16	S	J720F8-4155-5
4.155	1.2-1.5-3mm	L	J75008-4155-5
4.155	1/16-1/16-3/16	L	J82008-4155-5
4.155	1/16-1/16-3/16	S	J820F8-4155-5
4.155	.043-1/16-3/16	L	J84008-4155-5
4.155	.043-1/16-3/16	S	J840F8-4155-5
4.155	1.2-1.5-2.8mm	L	J90008-4155-3
4.155	1.2-1.5-3mm	L	J91008-4155-5
4.155	1.2-1.5-3mm	S	J910F8-4155-5
4.155	1.2-.043-3mm	L	J91108-4155-5
4.155	1.2-.043-3mm	S	J911F8-4155-5
4.155	1.2-1.5-3mm	L	J91208-4155-3
4.155	1.2-1.5-3mm	S	J912F8-4155-3
4.155	1.2-1.2-3mm	L	J92008-4155-3
4.155	1.2-1.2-3mm	S	J920F8-4155-3
4.155	1.2-1.2-3mm	L	J93008-4155-5
4.155	1.2-1.2-3mm	S	J930F8-4155-5
4.155	1.2-1/16-3mm	L	J95008-4155-3
4.155	1.2-1.5-3/16	L	J96008-4155-5
4.155	1.2-1.5-3/16	S	J960F8-4155-5
4.155	1/16-1/16-3/16	S	S100S8-4155-5
4.165	1/16-1/16-3/16	L	J10008-4165-5
4.165	1/16-1/16-3/16	S	J100F8-4165-5
4.165	1/16-1/16-3mm	L	J30008-4165-5
4.165	1/16-1/16-3mm	S	J300F8-4165-5
4.165	1/16-1/16-3/16	L	J50008-4165-5
4.165	1/16-1/16-3/16	S	J500F8-4165-5
4.165	1.5-1.5-3mm	L	J60008-4165-5
4.165	1.5-1.5-3mm	S	J600F8-4165-5
4.165	.043-.043-3mm	L	J70008-4165-5
4.165	.043-.043-3mm	S	J700F8-4165-5

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.165	.043-1.5-3mm	L	J70T08-4165-5
4.165	.043-1.5-3mm	S	J70TF8-4165-5
4.165	.043-.043-3/16	L	J72008-4165-5
4.165	.043-.043-3/16	S	J720F8-4165-5
4.165	1.2-1.5-3mm	L	J75008-4165-5
4.165	1.2-1.5-3mm	S	J750F8-4165-5
4.165	1/16-1/16-3/16	L	J82008-4165-5
4.165	1/16-1/16-3/16	S	J820F8-4165-5
4.165	.043-1/16-3/16	L	J84008-4165-5
4.165	.043-1/16-3/16	S	J840F8-4165-5
4.165	1.2-1.5-2.8mm	L	J90008-4165-3
4.165	1.2-1.5-3mm	L	J91008-4165-5
4.165	1.2-1.5-3mm	S	J910F8-4165-5
4.165	1.2-.043-3mm	L	J91108-4165-5
4.165	1.2-.043-3mm	S	J911F8-4165-5
4.165	1.2-1.5-3mm	L	J94008-4165-3
4.165	1.2-1.5-3mm	S	J940F8-4165-3
4.165	1.2-1/16-3mm	L	J95008-4165-3
4.165	1.2-1/16-3mm	S	J950F8-4165-3
4.165	1/16-1/16-3/16	S	S100S8-4165-5
4.170	1.2-1.5-3mm	L	J75008-4170-5
4.175	1.5-1.5-3mm	L	J60008-4175-5
4.175	.043-.043-3mm	L	J70008-4175-5
4.185	1/16-1/16-3/16	S	J100F8-4185-5
4.185	1/16-1/16-3mm	L	J30008-4185-5
4.185	1.5-1.5-3mm	L	J60008-4185-5
4.185	.043-.043-3mm	L	J70004-4185-5
4.185	.043-.043-3mm	L	J70008-4185-5
4.185	1.2-1.5-3mm	L	J75008-4185-5
4.185	1/16-1/16-3/16	S	J820F8-4185-5
4.185	.043-1/16-3/16	S	J840F8-4185-5
4.185	017-1/16-3/16	S	J880F8-4185-5
4.185	017-1/16-3/16	H	J880H8-4185-5
4.185	017-1/16-3/16	S	J890F8-4185-5
4.185	017-1/16-3/16	H	J890H8-4185-5
4.185	1.2-.043-3mm	L	J91108-4185-5
4.190	.043-.043-3mm	L	J70008-4190-5
4.190	1.2-.043-3mm	L	J91108-4190-5
4.195	.043-.043-3mm	L	J70008-4195-5
4.195	1.2-.043-3mm	L	J91108-4195-5
4.205	.043-.043-3mm	L	J70008-4205-5
4.210	1/16-1/16-3/16	S	J100F8-4210-5
4.215	.043-.043-3mm	L	J70008-4215-5
4.250	1/16-1/16-3/16	L	J10008-4250-5
4.250	1/16-1/16-3/16	S	J100F8-4250-5
4.250	017-1/16-3/17	S	J880F8-4250-5
4.250	017-1/16-3/16	H	J880H8-4250-5
4.250	017-1/16-3/16	S	J890F8-4250-5
4.250	017-1/16-3/16	H	J890H8-4250-5
4.280	1/16-1/16-3/16	L	J10008-4280-5
4.280	1/16-1/16-3/16	S	J100F8-4280-5
4.280	.043-1/16-3/16	L	J20008-4280-5
4.280	1/16-1/16-3/16	L	J82008-4280-5

BORE	AXIAL HEIGHT	TENSION	RING SET PART NUMBER
4.280	1/16-1/16-3/16	S	J820F8-4280-5
4.280	1/16-1/16-3/16	S	S100S8-4280-5
4.310	1/16-1/16-3/16	L	J10008-4310-5
4.310	1/16-1/16-3/16	S	J100F8-4310-5
4.310	.043-1/16-3/16	L	J20008-4310-5
4.310	.043-1/16-3/16	S	J200F8-4310-5
4.310	1/16-1/16-3/16	L	J82008-4310-5
4.310	1/16-1/16-3/16	S	J820F8-4310-5
4.310	017-1/16-3/16	S	J880F8-4310-5
4.310	017-1/16-3/16	H	J880H8-4310-5
4.310	1/16-1/16-3/16	S	S100S8-4310-5
4.320	1/16-1/16-3/16	L	J10008-4320-5
4.320	1/16-1/16-3/16	S	J100F8-4320-5
4.350	1/16-1/16-3/16	L	J10008-4350-5
4.350	1/16-1/16-3/16	S	J100F8-4350-5
4.350	1/16-1/16-3/16	S	S100S8-4350-5
4.360	1/16-1/16-3/16	L	J10008-4360-5
4.360	1/16-1/16-3/16	S	J100F8-4360-5
4.375	1/16-1/16-3/16	L	J10008-4375-5
4.375	1/16-1/16-3/16	S	J100F8-4375-5
4.375	.043-1/16-3/16	L	J20008-4375-5
4.375	.043-1/16-3/16	S	J200F8-4.375-5
4.375	017-1/16-3/16	S	J880F8-4375-5
4.375	017-1/16-3/16	H	J880H8-4375-5
4.375	017-1/16-3/16	S	J890F8-4375-5
4.375	017-1/16-3/16	H	J890H8-4375-5
4.390	1/16-1/16-3/16	L	J10008-4390-5
4.390	1/16-1/16-3/16	S	J100F8-4390-5
4.390	1/16-1/16-3/16	S	S100S8-4390-5
4.440	1/16-1/16-3/16	L	J10008-4440-5
4.440	1/16-1/16-3/16	S	J100F8-4440-5
4.440	.043-1/16-3/16	L	J20008-4440-5
4.440	.043-1/16-3/16	S	J200F8-4440-5
4.468	2.0-1.5-4mm	L	J83008-4468
4.468	2.0-5/64-3/16	L	J85008-4468
4.470	1/16-1/16-3/16	S	J100S8-4470-5
4.500	1/16-1/16-3/16	L	J10008-4500-5
4.500	1/16-1/16-3/16	S	J100F8-4500-5
4.500	.043-1/16-3/16	L	J20008-4500-5
4.500	.043-1/16-3/16	S	J200F8-4500-5
4.500	1/16-1/16-3mm	L	J30008-4500-5
4.500	1/16-1/16-3/16	L	J82008-4500-5
4.500	1/16-1/16-3/16	S	J820F8-4500-5
4.500	.043-1/16-3/16	L	J84008-4500-5
4.500	.043-1/16-3/16	S	J840F8-4500-5
4.500	.043-1/16-3/16	L	J86008-4500-5
4.500	.043-1/16-3/16	S	J860F8-4500-5
4.500	1/16-1/16-3/16	S	S100S8-4500-5
4.530	1/16-1/16-3/16	L	J10008-4530-5
4.530	1/16-1/16-3/16	S	J100F8-4530-5
4.530	.043-1/16-3/16	L	J20008-4530-5
4.530	.043-1/16-3/16	S	J200F8-4530-5
4.530	1/16-1/16-3/16	L	J82008-4530-5
4.530	1/16-1/16-3/16	S	J820F8-4530-5
4.530	.043-1/16-3/16	L	J86008-4530-5
4.530	.043-1/16-3/16	S	J860F8-4530-5
4.530	1/16-1/16-3/16	S	S100S8-4530-5
4.560	1/16-1/16-3/16	L	J10008-4560-5
4.560	1/16-1/16-3/16	H	J100H8-4560-5
4.560	.043-1/16-3/16	L	J20008-4560-5
4.560	.043-1/16-3/16	H	J200H8-4560-5
4.560	1/16-1/16-3/16	H	J820H8-4560-5
4.560	.043-1/16-3/16	H	J840H8-4560-5
4.560	.043-1/16-3/16	L	J86008-4560-5
4.560	.043-1/16-3/16	H	J860H8-4560-5
4.560	1/16-1/16-3/16	S	S100S8-4560-5
4.580	1/16-1/16-3/16	S	J100F8-4580-5
4.580	.043-1/16-3/16	S	J860F8-4580-5
4.600	1/16-1/16-3/16	L	J100L8-4600-5
4.600	1/16-1/16-3/16	U	J100U8-4600-5
4.600	.043-1/16-3/16	L	J200L8-4600-5
4.600	.043-1/16-3/16	U	J200U8-4600-5
4.600	1/16-1/16-3mm	S	J300F8-4600-5
4.600	1/16-1/16-3mm	U	J300U8-4600-5
4.600	.043-1/16-3mm	S	J400F8-4600-5
4.600	.043-1/16-3mm	U	J400U8-4600-5
4.600	.043-1/16-3/16	L	J711L8-4600-5
4.600	.043-1/16-3/16	U	J711U8-4600-5
4.600	.043-.043-3/16	L	J73008-4600-5
4.600	.043-.043-3/16	U	J730U8-4600-5
4.600	.043-.043-3mm	U	J770U8-4600-5
4.600	1/16-1/16-3/16	L	J82008-4600-5
4.600	.043-1/16-3/16	L	J840L8-4600-5
4.600	.043-1/16-3/16	U	J840U8-4600-5
4.600	.043-1/16-3/16	L	J860L8-4600-5
4.600	.043-1/16-3/16	U	J860U8-4600-5
4.600	.043-.043-3/16	L	J87008-4600-5
4.600	1/16-1/16-3/16	S	S100S8-4600-5
4.610	1/16-1/16-3/16	H	J100H8-4610-5
4.610	.043-1/16-3/16	H	J860H8-4610-5
4.625	1/16-1/16-3/16	S	J100F8-4625-5
4.625	.043-.043-3mm	L	J77008-4625-5
4.625	.043-1/16-3/16	S	J860F8-4625-5
4.625	1.2-1/16-3mm	L	J95008-4625-3
4.675	.043-.043-3mm	L	J77008-4675-5



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Volume One