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EUROPEAN HISTORIC RACING

2018 CATALOGUE

Pistons and accessories



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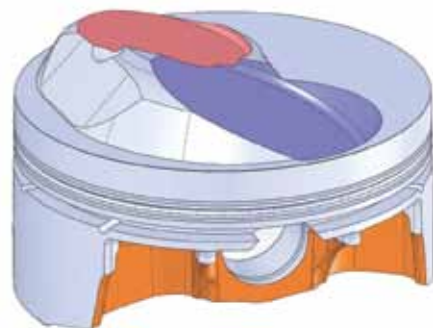
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CUSTOM PISTONS

For decades, JE Pistons has manufactured custom pistons for thousands of applications. JE Piston's in-house engineering and manufacturing centers can produce a custom piston for almost any 4-stroke engine. To order custom pistons, please use the Custom Piston Order Form located in the back of this catalog, or download one from our website at www.jepistons.com. Custom pistons do not include pins, locks or rings. Please see the components section of this catalog to select the proper components for your custom order. In a rush? Ask about our industry leading expedite services that can complete your pistons in as little as five days.



APPLICATIONS INCLUDE:

Alfa Romeo	Chevrolet	Davidson	Lotus	Peugeot	Toyota
AMC	Chrysler	Holden	Maserati	Plymouth	Triumph
Aston Martin	Citroen	Honda	Mazda	Pontiac	Vauxhall
Audi	Cosworth	Husqvarna	Mercedes Benz	Porsche	Volvo
Austin Healey	Datsun	Indian	Hyundai	Radical	VW
Bentley	Dodge	Isuzu	MG	Renault	Yamaha
BMW	Ducati	Jaguar	Mitsubishi	Rolls Royce	and more...
BSA	Ferrari	Jeep	Moto Guzzi	Saab	
Buick	Fiat	Kawasaki	Noble	Skoda	
Cadillac	Ford	KTM	Oldsmobile	Smart	
Caterham	Harley	Lamborghini	Opel	Subaru	

PISTON COATINGS

THERMAL BARRIER CROWN COATING

Applied to the top of the piston and is designed to reflect heat into the combustion chamber, thereby increasing exhaust gas velocity and greatly improving scavenging potential. The .0015" thick coating can also assist in extending piston life by decreasing the rate of thermal transfer.

TUFF SKIRT® COATING

JE Pistons' trademark coating that is a lubricating, anti-friction/anti-wear coating applied to the piston skirt only. Unlike our standard Skirt Coating, Tuff Skirt will not wear and is designed to withstand many different types of endurance applications, similar to those commonly found in NASCAR. Buildup is .0005" per surface and finished diameter of skirt should include the coating buildup.

ANODIZED RING GROOVE COATING

Reduces wear and material transfer between the ring and groove. Shown to be very durable in maximum effort, high endurance applications. Appropriate manufacturing allowances apply.

KOOLKOTE

Is an aerospace quality hard anodize applied to all surfaces of the piston with a buildup of .001. This coating is designed for use in nitro-methane engines such as Top Fuel Drag Racing to endure the corrosive effects of this type of fuel. It will withstand greater temperatures and will not flake, chip or peel. This coating does alter the heat transfer and expansion characteristics of the piston. Consult the JE Pistons technical department for specific applications. Manufacturing allowances are required on all surfaces.

PERFECT SKIRT™

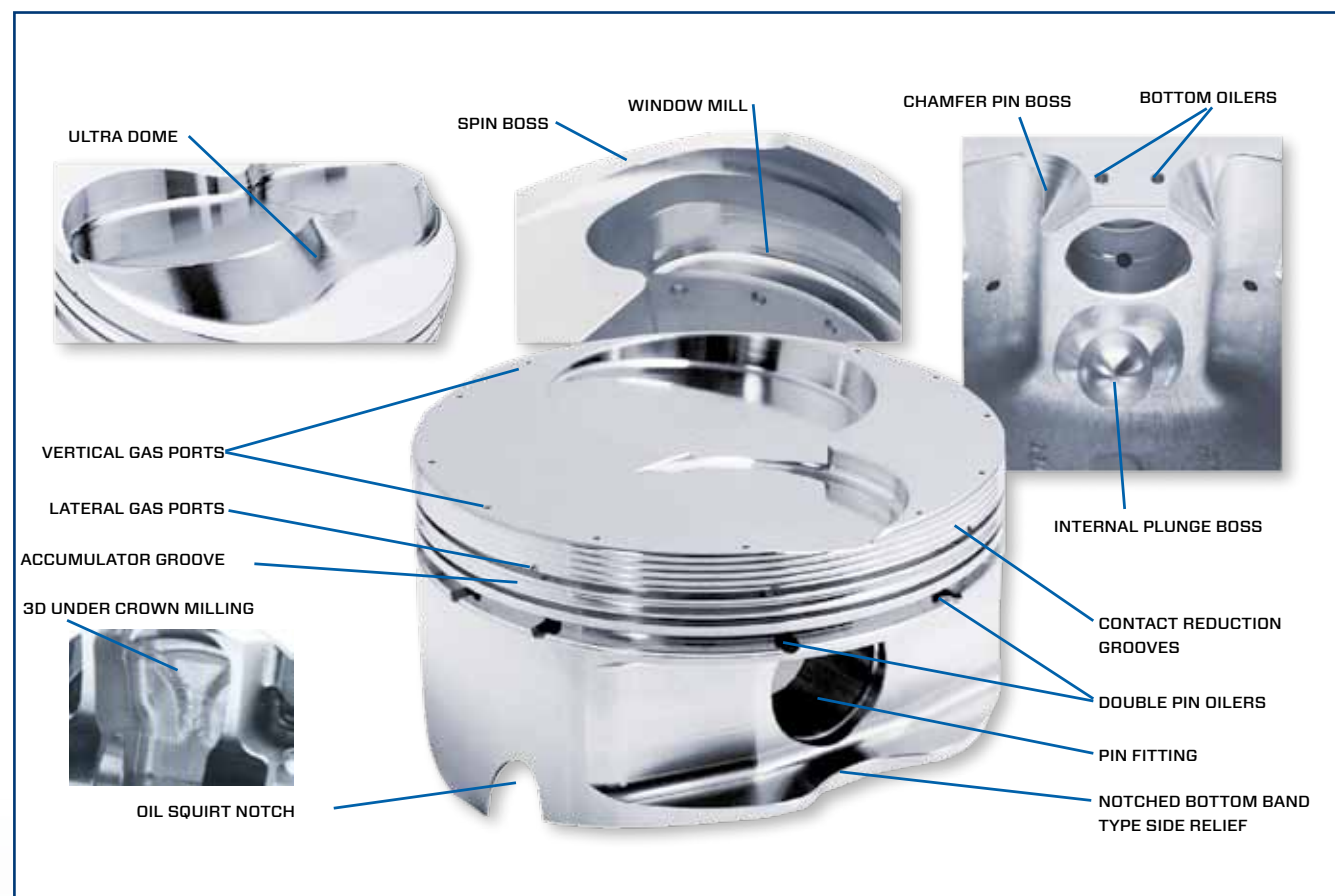
Perfect Skirt is a proprietary and patented skirt coating only offered by JE Pistons. Perfect Skirt is three-times thicker than traditional skirt coatings to allow racing pistons to have tighter piston-to-wall clearances similar to OEM applications. This decreases piston noise on startup and reduces cylinder bore wear. Additionally, this is beneficial for late-model engines, reducing the possibility of false knock sensor readings. Perfect Skirt will continuously conform to the shape of your cylinder's bore.

EN PLATING

Help reduce pitting and piston ring micro welding caused by detonation with JE's Electroless Nickel plating. Unlike other metal plating that loses hardness and softens when exposed to heat, Electroless Nickel gets harder as it runs. The plating is applied to the piston domes, ring grooves, and wrist pin bore to provide a lower coefficient of friction, reduce ring blow-by, and increase detonation protection. In addition, Electroless Nickel reflects heat and allows domes to run up to 68 degrees cooler..

STANDARD CUSTOM PISTON FEATURES

- Fully CNC Machined Piston
- Precision Machined CNC Ring Grooves
- 2618 Low-Silicon or optional 4032 High Silicon material available on some applications
- Diamond Turned Skirts
- Radiused Valve Reliefs
- Single Forced Pin Oilers
- Pick Lock Grooves (for use with wire locks)
- Machined Side Reliefs on full round forgings
- Lock Grooves Machined for Carbon Steel Spiro Locks (other options available)
- Engineered for your application!



ULTRA CROWN DOME ULTRA CROWN INVERTED DOME:

The Ultra Crown machining process allows incredibly precise dome to cylinder head tolerances. By mapping the exact shape of a piston or cylinder head, optimum compression and quench characteristics can be achieved.

3D UNDER CROWN MILLING:

The Under Crown machining process allows for uniform deck thickness, therefore creating a lighter and more durable piston.

VERTICAL GAS PORTS:

Vertical holes in the deck of the piston, allows combustion pressure to directly enter behind the top ring on the power stroke, thus pressurizing the area behind the top ring for greater ring to cylinder wall seal. During the rest of the cycle, the ring has normal tension for reduced friction. (Most commonly used for drag race applications).

LATERAL GAS PORTS:

This process mills slots into the top of the top ring groove and provides a pathway for combustion pressure to get behind the top ring. This process helps to increase ring seal and is most common in circle track applications.

ULTRA GROOVE:

Ultra Groove is a special ring groove machining process that provides near perfect groove flatness and surface finish. Tolerances are held to millionths of an inch.

PIN BOSS & WINDOW MILLING:

In certain applications window milling will remove a significant amount of weight from the skirt of the piston while maintaining its strength and integrity. Spin Boss refers to machining on the bottom of the pin boss, which removes weight where it is not needed for strength.

PLUNGE BOSS & CHAMFER PIN BOSS:

Machining process that removes additional material for added weight savings.

CONTACT REDUCTION GROOVES:

The purpose of machining these grooves is to reduce the amount of contact area against the cylinder wall when the piston "rocks over". Contact reduction also serves to disrupt the flame travel into the crevice area thus helping to reduce detonation.

ACCUMULATOR GROOVES:

An accumulator groove is machined into the land between the top and second ring. It provides additional volume where residual combustion gases that have "blown by" the top ring can collect. This additional volume helps to reduce pressure between the top & second ring, thus aiding in top ring seal and minimizing ring flutter.

DOUBLE PIN OILERS:

Double Pin Oilers deliver twice the amount of oil to the wrist pin as compared to the standard single pin oiler.

PIN FITTING:

The pin bore is precision honed to attain an exact pin clearance. Clearances typically range from .0003 to .0010 between the wrist pin and pin bore.

OIL SQUIRT NOTCH:

Notching can be done on pistons for motors with oil squirters, or to avoid contact between pistons and/or pistons and crankshaft.

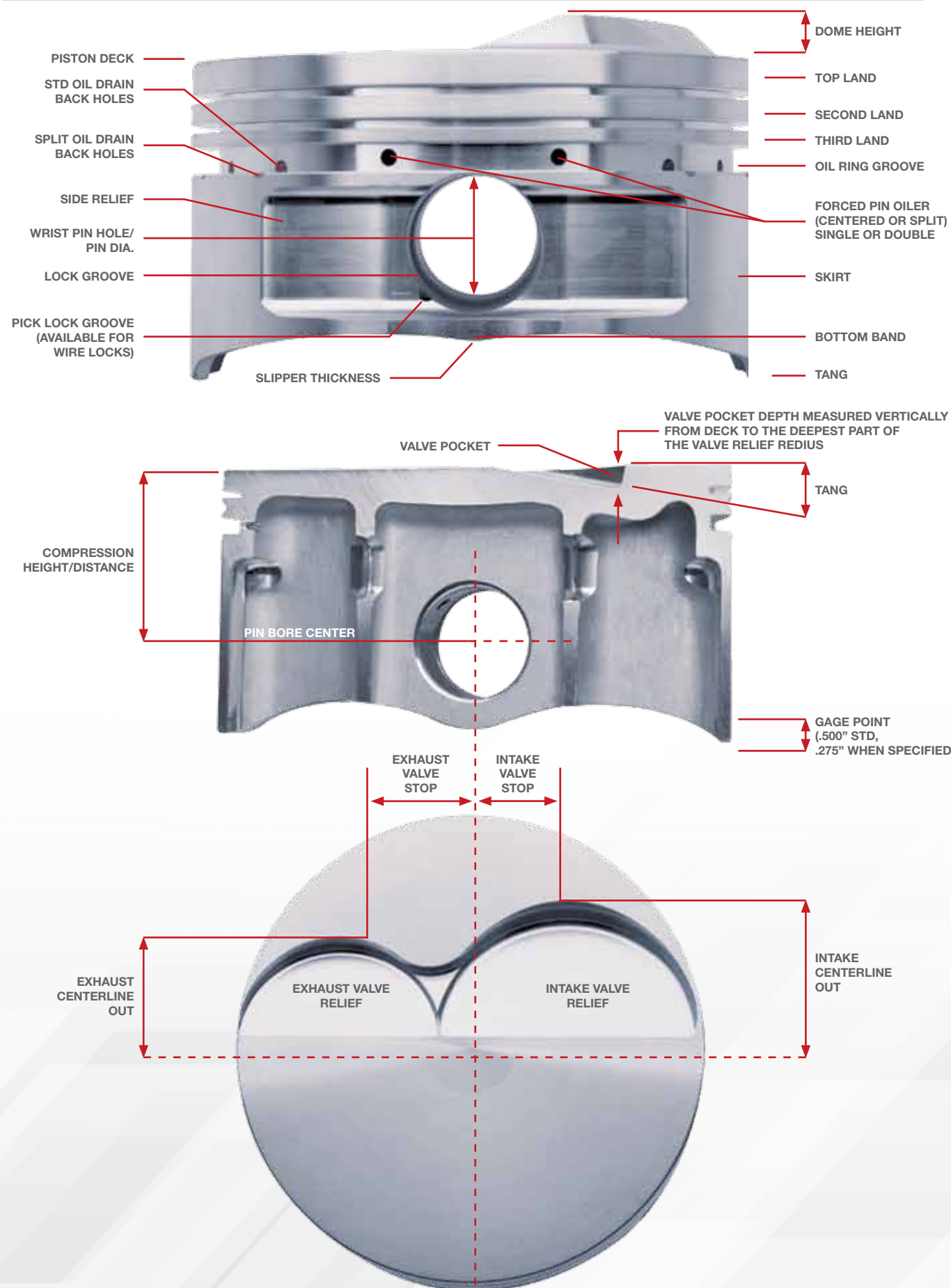
BOTTOM OILERS:

This process machines one or two holes into the bottom of the pin boss to assist in splash pin lubrication.

TULIP VALVE POCKETS:

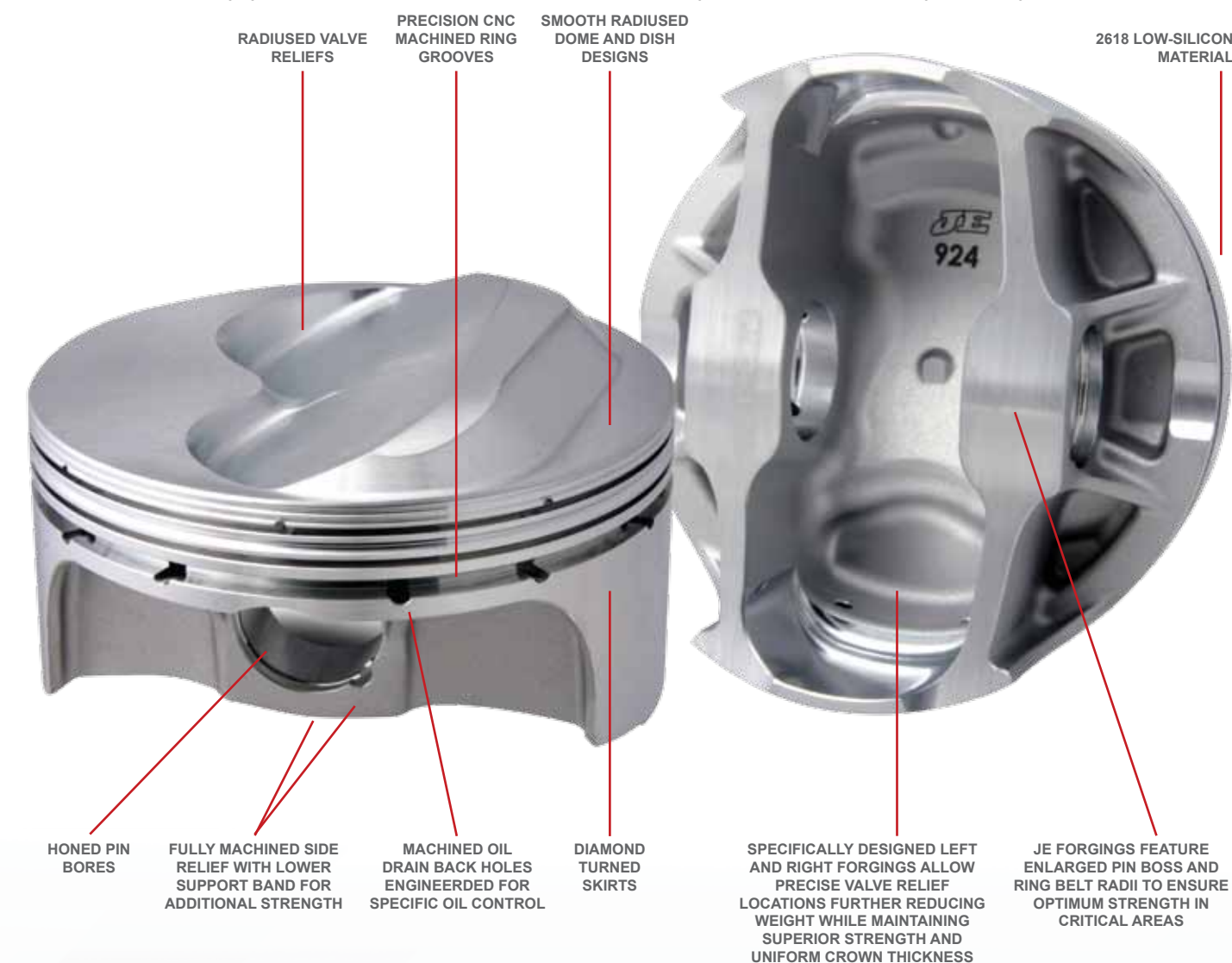
Most commonly used on Hemi and motorcycle engines, this process leaves a raised area on plunged valve pockets to achieve maximum compression.

PISTON TERMINOLOGY



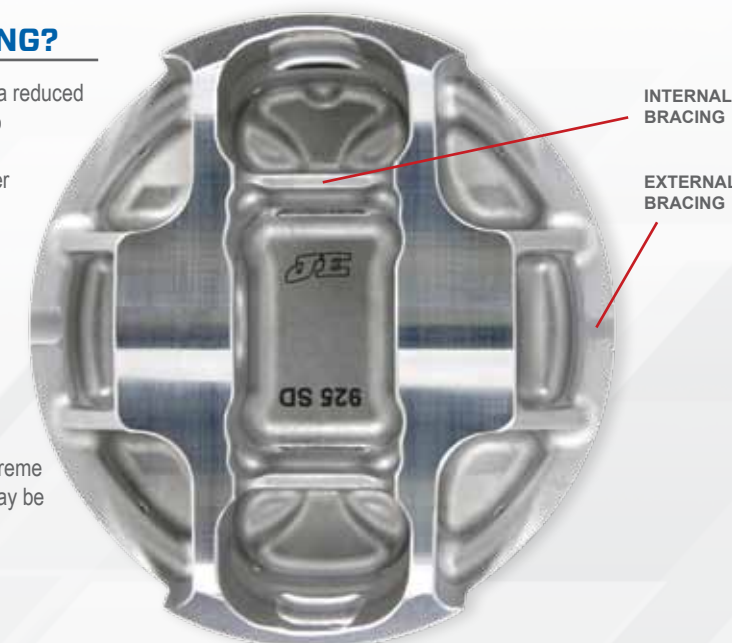
PISTON TERMINOLOGY

With over 300 individual forgings to choose from, JE is able to achieve specific piston design requirements while reducing overall weight.



WHAT IS AN FSR FORGING?

FSR (Forged Side Relief) forging designs feature a reduced skirt width and shorter wrist pin when compared to traditional "full round" style forgings. The narrow skirt helps minimize piston contact with the cylinder wall that can cause friction and power loss while the shortened wrist pins reduces the overall weight. Some FSR forgings feature internal and external bracing to provide a more rigid construction while minimizing overall weight. With thousands of race miles logged in the most demanding applications like NASCAR, NHRA Pro Stock and IRL, these pistons provide the ultimate combination of low-friction, lightweight design with increased stability and strength. (Tech note: In extreme horsepower applications the use of oil squirters may be required).





A. The Thermal Barrier Crown Coating is applied to the top of the piston and is designed to reflect heat into the combustion chamber, thereby increasing exhaust gas velocity and greatly improving scavenging potential. The .0015" thick coating can also assist in extending piston life by decreasing the rate of thermal transfer.

B. Skirt Coating. JE now offers a skirt coating that is applied using a new process that does not require spray application. This coating offers many of the same benefits of our Tuff Skirt, at a much lower cost. All SRP Professional pistons now include this new skirt coating process.

C. Tuff Skirt is a JE Pistons' trademark coating that is a lubricating, anti-friction/ anti-wear coating applied to the piston skirt only. Unlike our standard Skirt Coating, Tuff Skirt will not wear and is designed to withstand many different types of endurance applications, similar to those commonly found in NASCAR. Buildup is .0005" per surface and finished diameter of skirt should include the coating buildup.

D. Anodized Ring Groove Coating. Reduces wear and material transfer between the ring and groove. Shown to be very durable in maximum effort, high endurance applications. Appropriate manufacturing allowances apply.

E. KoolKote is an aerospace quality hard anodize applied to all surfaces of the piston with a buildup of .001". This coating is designed for use in nitro-methane engines such as Top Fuel Drag Racing to endure the corrosive effects of this fuel type. It will withstand greater temperatures and will not flake, chip or peel. This coating does alter the heat transfer and expansion characteristics of the piston. Consult the JE Pistons technical department for specific applications. Manufacturing allowances are required on all surfaces.

APPLICATION LISTING





 ALFA ROMEO
33 1.7ltr 16V (OEM repl.)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-33-001	87.00	AR3055	1712	16	72.20	130.00	201.70	35.00		10.0:1	-11.00	21.00	387	1,M,R	Std.	8700XX					
ALF-33-002	87.25	AR3055	1712	16	72.20	130.00	201.70	35.00		10.0:1	-11.00	21.00	389	1,M,R	Std.	8725XX					
ALF-33-003	87.50	AR3055	1712	16	72.20	130.00	201.70	35.00		10.0:1	-11.00	21.00	392	1,M,R	Std.	8750XX					
ALF-33-004	88.00	AR3055	1712	16	72.20	130.00	201.70	35.00		10.0:1	-11.00	21.00	398	1,M,R	Std.	8800XX					

2.0 ltr Nord 8V

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-20-001	84.00	105	1962	8	88.50	157.00	235.7	33.25	76.90	10.5:1	42.40	22.00	409	1,D,M	Std.	8400XX	001EG17157				
ALF-20-002	84.25	105	1962	8	88.50	157.00	235.7	33.25	76.90	10.5:1	42.40	22.00	411	1,D,M	Std.	8425XX	001EG17157				
ALF-20-003	84.50	105	1962	8	88.50	157.00	235.7	33.25	76.90	10.5:1	42.40	22.00	414	1,D,M	Std.	8450XX	001EG17157				

Alfa 1600

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-16-001	78.00	105.28	1568	8	82.00	148.00		34.00				22.00	328			GV08-3245					

Alfa 1900

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-19-001	85.00	tipo 1306	1884	8	85.75	165.20		44.00		12:1		24.00	N/A			2M6899-STD					
ALF-19-002	86.00	tipo 1306	1884	8	85.75	165.20		44.00		12:1		24.00	515			2M4601-020					

Alfa 6C 2500 SS

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-6C-001	73.50	6C 2500 SS	2443	12	100.00			39.50				19.00	283			JP25-7203320					

Alfa 2.0ltr GTV

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-GTV-001	86.00	062.12	1962	8	88.50	157.00		33.25			40,00	22.00	390		+2.00	J614F4-3386					
ALF-GTV-002	84.00	062.12	1962	8	88.50	157.00		33.40			54.00	22.00	397		std	J640F4-3307					

Alfa 1300 F1

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALF-13F1-001	79.90			8				33.00				20.00	342			JC1704					

 ALVIS
Alvis speed 20SC

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ALV-001	93.00							51.80			0.00	22.00	514			JC1806-3661					

 ASTON MARTIN
DB7 - 3.2 SC

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
AST-DB7-001	91.50	DB7						37.70				23.55	420			JC2206-3606					



AUSTIN

Healey 100/4

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
AUS-HEA-002	87.31				111.10	197.56		50.75			-18.9	22.23	464		std	RA242-3438					
AUS-HEA-001	88.50			8	111.10	197.56		50.77		8.5:1	-19.00	22.23	529		+1.20	JG2201-3484					

100/6

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
AUS-HEA-003	81.00	C-Series	2639	12	88.90	165.00		47.65				22.23	400		+1.62	JG9001-3189					KIT-19

BMW

2002, 2002Tii

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
BMW-2002-002	89.00	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.44	58.00	10.0:1	10.40	22.00	456	1,M	Std.	8900XX					
BMW-2002-003	89.50	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.44	58.00	10.0:1	10.40	22.00	463	1,M	0.50	8950XX					
BMW-2002-004	90.00	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.44	58.00	10.0:1	10.40	22.00	-	1,M	1.00	9000XX					
BMW-2002-005	90.25	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.44	58.00	10.0:1	10.40	22.00	482	1,M	1.25	9025XX					
BMW-2002-006	89.00	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.11	58.00	9.5:1	14.00	22.00	-	1,M	Std.	8900XX					
BMW-2002-007	89.50	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.11	58.00	9.5:1	14.00	22.00	-	1,M	0.50	8950XX					
BMW-2002-008	90.00	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.11	58.00	9.5:1	14.00	22.00	455	1,M	1.00	9000XX					
BMW-2002-009	90.25	M10B20(121 head)	1991	8	80.00	135.00	217.5	42.11	58.00	9.5:1	14.00	22.00	-	1,M	1.25	9025XX					
BMW-2002-001	89.50	M10B20	1991	8	80.00	135.00	217.5	42.40	58,00	10:1		20.00	473		0.50	JG2004-3524					

B7 Alpina (745i)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
BMW-B7-001	92.25	M30B34(34 6TA)	3450		86.00			38.50				22.00	425		+0.25	RA144-3632					

FERRARI

250 V12

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-250-001	73.25	250	2963	24	58.80	112.00		28.95				17.00	224		+0.25	S3364-10(3)					

275 GTB/4

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-275-001	77.00	275	3967	24	71.00	112.00		27.81		10.5:1	13.00	17.00	278	M	Std.	7700XX	FE-25-S-54409S-12	HG-FER-007			
FER-275-002	77.50	275	3967	24	71.00	112.00		27.81		10.5:1	13.00	17.00	278	M	0.50	7750XX	FE-25-S-54409S-12	HG-FER-007			
FER-275-003	78.00	275	3967	24	71.00	112.00		27.81		10.5:1	13.00	17.00	278	M	1.00	7800XX	FE-25-S-54409S-12	HG-FER-007			

308 GTB/GTS QV

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-308-003	81.50	F105AB QV	2926	32	71.00	137.00	204.50	30.38	18.50	9.0:1	-11.00	18.50	-	M	1.00	3208XC	FE-328-S-65394S-08				
FER-308-004	82.00	F105AB QV	2926	32	71.00	137.00	204.50	30.38	18.50	9.0:1	-11.00	18.50	-	M	1.00	3228XC	FE-328-S-65394S-08				
FER-308-001	82.00	F105AB QV	2927	33	71.00	137.00	137.00	31.85	18.51	11.5:1		18.50	308			RA154-3228					
FER-308-002	82.00	F105AB QV	2926	32	71.00	137.00	204.50	30.73	18.50	8.6:1	-12.70	18.50	299	F,M	1.00	JG1001-3228	FE-328-S-65394S-08				

330 America/GTC

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-330-002	78.00	330	3967	24	71.00	137.00		29.90		-	21.20	18.50	-	M	1.00	3071XC	FE-328-S-65394S-12				
FER-330-001	77.50	Tipo 209	3967	24	71.00	137.00		29.50		10.8:1		18.50	287			2C6154+ .020					

365 GTB-4 Daytona

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-365-002	82.00	F251	4390	24	71.00	137.00		30.76		10.5:1	17.00	18.50	-	M	1.00	3228XC	FE-328-S-65394S-12				
FER-365-001	81.50	F251	4390	24	71.00	137.00		31.24		9.8:1	7.30	18.50	282	M	0.50	JG1001-3208	FE-328-S-65394S-12				



FERRARI

512 Testarossa BB/M/TR

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-512-002	82.00	F113 A000	4942	48	78.00	136.91		30.38		-	-11.00		18.50	-	M	Std.	3208XC					
FER-512-001	82.00	F113 A000	4942	48	58.50	136.91		31.75			9.2:1		18.50	313								

712 CanAm

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-712-001	92.25	712	6861	16	86.00			30.00		11.4:1			21.00	399		+0.25	RA144-3632					

Dino 206

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-206-001	86.50	206	1984	12	57.00			31.50		10.4:1			20.00	366		+0.50	JC11F6-3405					
FER-206-002	87.00	206	1984	12	57.00			31.50		10.4:1			20.00	377		+1.00	J615F4-3425					

Dino 246

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-246-001	93.00	246	2419	12	60.00	118.00		30.00					20.00	383		+0.50	JC1806-3661					

Dino 308

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FER-308-001	81.25	308	2927	16	71.00	137		30.75			7.4		18.50	273		+0.25	JG9004-3199					

FIAT

500 Abarth

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FIA-500-002	72.00	n/a	1368	16	84.00	129.00		26.77		9.8:1	-19.50		18.00	198	M,R	Std.	XC7200		338434R			
FIA-500-003	72.50	n/a	1368	16	84.00	129.00		26.77		9.8:1	-19.50		18.00	202	M,R	0.50	JC4704-2855		338434R			
FIA-500-F3-004	84.25							25.65		13.0:1	3.3		20.00	285			XC8425					
FIA-1500-001	77.75				77.00			36.60		13.7:1			22.00	281		+0.75	RA054-3061					

FORD

Kent/Cortina 8v Twin Cam

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
KEN-COR-008	83.00	116E	1558	8	72.75	121.92	197.61	37.85	36.70	11.2:1	8.25		20.63	-	M,R	0.45	JG1001-3268	F-105-S-64826H-04	C4133-040	KIT-01		
KEN-COR-009	83.50	116E	1558	8	72.75	121.92	197.61	37.85	36.70	11.3:1	8.25		20.63	-	M,R	0.95	JG1001-3287	F-105-S-64826H-04	C4133-040	KIT-01		
KEN-COR-007	84.00	116E	1558	8	72.75	121.92	197.61	37.85	36.70	11.4:1	8.25		20.63	362	M,R	1.45	JXC0F4-3307-2	F-105-S-64826H-04	C4133-040	KIT-01		
KEN-COR-010	85.00	116E	1558	8	72.75	121.92	197.61	37.85	36.70	11.6:1	8.25		20.63	-	M,N,R	2.45	JG1001-3346	F-105-S-64826H-04	C4133-040	KIT-01		

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
KEN-COR-004	83.00	116E	1558	8	72.75	121.92	197.61	39.10	36.70	11.7:1	13.50		20.63	-	M,R	0.45	JG1001-3268		C4133-040			KIT-01
KEN-COR-005	83.50	116E	1558	8	72.75	121.92	197.61	39.10	36.70	12.0:1	13.50		20.63	-	M,R	0.95	JG1001-3287		C4133-040			KIT-01
KEN-COR-003	84.00	116E	1558	8	72.75	121.92	197.61	39.10	36.70	12.2:1	13.50		20.63	369	M,R	1.45	JG1001-3307		C4133-040			KIT-01
KEN-COR-006	85.00	116E	1558	8	72.75	121.92	197.61	39.10	36.70	12.4:1	13.50		20.63	-	M,N,R	2.45	JG1001-3346		C4133-040			KIT-01
KEN-COR-001	83.75	CVH	1597	8	72.75	121.92		28.50		9.9:1			19.05	271		+0.75						KIT-01
KEN-COSRS-002	91.50	YBB	1993	8	76.95	128.55		40.80					24.00	449		+0.68	JG2201-3606					KIT-01

Pinto 2000

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
PIN-2300-004	91.00	(S)OHC	1992	8	76.90	144.78	207.5	40.51	49.00	11.5:1	10.90		24.00	414	M	0.20	JG1001-353	FH5000AJABB4-A	C4350-040			
PIN-2300-003	92.00	(S)OHC	1992	8	76.90	144.78	207.5	40.51	49.00	11.5:1	10.90		24.00	412	M	1.20	JG1001-3622	FH5000AJABB4-A	C4350-040			

RS2000 DOHC

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
FOR-RS2-002	86.00	N7A	1998	16	86.00	149.30	225	32.36	38.50	10.6:1	-2.20		20.00	316	L,M,S	Std.	JG1001-3386	011EF14149				
FOR-RS2-001	86.50	N7A	1998	16	86.00	149.30	225	32.36	38.50	10.6:1	-2.70		20.00	320	L,M,S	0.50	JG1001-3405	011EF14149				
FOR-RS2-003	87.00	N7A	1998	16	86.00	149.30	225	32.36	38.50	10.6:1	-3.25		20.00	324	L,M,S	1.00	JG1001-3425	011EF14149				
FOR-RS2-004	86.50	N7A	1998	16	86.00	149.30	225	31.85	38.50	12.0:1	9.70		20.63	323	M	0.50	JG1001-3405	011EF14149				



APPLICATION LISTING

APPLICATION LISTING



Cosworth Escort/Sierra

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
COS-SIE-001	90.82	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	376	A,F,M,T	Std.	JG1004-353	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-002	91.00	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	378	F,M,T	0.18	JG1004-353	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-003	91.50	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	384	F,M,T	0.68	JG1004-3602	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-004	92.00	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-21.40	24.00	387	F,M,T	1.18	JG1004-3622	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-005	92.50	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	390	F,M,T	1.68	JG1004-3642	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-006	93.00	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	393	F,M,T	2.18	JG1004-3661	011BP29129	FD1007-039	251-6301	251-4701	151-5401
COS-SIE-007	93.50	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	396	F,M,T	2.68	JG1004-3681	011BP29129	FD1008-045	251-6301	251-4701	151-5401
COS-SIE-008	94.00	YB/N5	1993	16	76.95	128.52	207.50	40.75	45.00	8.0:1	-20.00	24.00	400	F,M,T	3.18	JG1004-3701	011BP29129	338040R	251-6301	251-4701	151-5401
COS-SIE-009	92.00	YB/N5	1993	16	76.95	128.52	207.50	40.74	45.00	12.0:1	6.20	24.00	424	M,R	1.18	JG1001-3622	011BP29129	FD1007-039	251-6301	251-4701	151-5401

Pinto 2300

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
PIN-2300-001	96.77	LL23	2302	8	79.50	144.78	n/a	27.69	52.00	9.0:1	-2.00	23.55	341	M	0.77	J1004-3810-5		C5369-040	251-6402	151-4702	151-5402
PIN-2300-002	97.03	LL23	2302	8	79.50	144.78	n/a	27.69	52.00	9.0:1	-2.00	23.55	349	M	1.03	J100F4-3820-5		C5369-040	251-6402	151-4702	151-5402



E-type (3800)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
JAG-XK38-001	87.00	Series 1/2	3781	12	106.00	196.85	225.00	41.70			7.0	22.23	388		std	JG1006-3425					
JAG-XK38-002	87.50	Series 1/2	3781	12	106.00	196.85	225.00	41.85				22.00	454		+0.50	J615F4-3445					

XK 3400

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
JAG-XK34-002	83.00	Series 1/2	3442	12	106.00	196.85	225.00	43.00				22.23	376		std	JG2901-3268					
JAG-XK34-001	84.50	Series 1/2	3442	12	106.00	196.85	225.00	41.90		10.4:1		22.23	414		+1.50	N64004-3327					

XK 3800

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
JAG-XK38-003	88.50	Series 1/2	3781	12	106.00	196.85	225.00	41.90		9.7:1		22.23	450		+1.50	2M4689+.040					
JAG-XK38-004	87.50	Series 1/2	3781	12	106.00	196.85	225.00	41.85				22.23	454		+0.50	J615F1-3445					
JAG-XK38-005	87.50	Series 1/2	3781	12	106.00	196.85	225.00	42.40				22.23	421		+0.50	J615F1-3445					

XK 4200

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
JAG-XK42-001	92.08	Series 1/2	4235	12	106.00	196.85	225.00	41.50				22.23	408			JG2404-3626					
JAG-XK42-002	92.50	Series 1/2	4235	12	106.00	196.85	225.00	41.60				22.23	445			JG2506-3642					



5.0L Gallardo ‘03-08

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAM-GAL-001	82.50	L510/07L1	4961	40	92.80	154.38		27.60	46.00	9.0:1	-11.20	20.00	268	I,M,Q,S,T	Std.	XC8250	LM-V10-1-T-8M6078S-10				
LAM-GAL-002	82.50	L510/07L1	4961	40	92.80	154.38		27.00	46.00	11.0:1	1.20	20.00	269	I,M,Q,S,T	Std.	JG1001-3250	LM-V10-1-T-8M6078S-10				
LAM-GAL-004	83.00	L510/07L1	4961	40	92.80	154.38		27.00	46.00	11.0:1	1.20	20.00	265	M,Q,S,T	0.50	XC8300	LM-V10-1-T-8M6078S-10				
LAM-GAL-003	83.00	L510/07L1	4961	40	92.80	154.38		27.00	46.00	11.0:1	1.20	20.00	280	I,M,Q,S,T	0.50	XX8300-coated	LM-V10-1-T-8M6078S-10				

5.2L Gallardo ‘09-12

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAM-GAL-005	84.50	BUJ	5204	40	92.80	154.00		27.60	46.00	9.0:1	-14.00	20.00	284	I,M,Q,S,T	Std.	XC8450	LM-5.2V10-T-8M6063S-10				

400 GT Jarama

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAM-400-001	82.30		3929	24	62.00			29.30		10:1		19.00	336		+0.30	JG2604-3240					

Countach

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAM-COU-001	82.00		3929		62.00	119.00		29.00		10.5:1		19.00	365		std	JXC0F6-3228-2					



Appia

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-APP-001	70.00	C10	1089	8	75.00			38.35				19.00	267		+2.00	XC7000					

Lancia Delta HF Integrale 8V

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-8V-001	84,00	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00		1, M	std	8400XX	010ED17145	C4124-070/338458R	275-6001	275-4L8V	
LAN-8V-002	84,25	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00		1, M	+0,25	8425XX	010ED17145	C4124-070/338458R	275-6001	275-4L8V	
LAN-8V-003	84,50	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00		1, M	+0,50	8450XX	010ED17145	C4124-070/338458R	275-6001	275-4L8V	
LAN-8V-004	85,00	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00	402	1, M	+1,00	8500XX	010ED17145	C4124-070/338458R	275-6001	275-4L8V	
LAN-8V-005	85,25	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00	409	1, M	+1,25	8525XX	010ED17145	FT1005-063/338458R	275-6001	275-4L8V	
LAN-8V-006	85,50	HF Int 8V	1995	8	90,00	145	229	38,95		7.5:1	-11	22,00		1, M	+1.50	8550XX	010ED17145	FT1005-063/338397R	275-6001	275-4L8V	

Lancia Delta HF Integrale 16V

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-DEL-003	84.00	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	338	M,S,T	Std.	JG1004-3307	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-004	84.20	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	339	A,M,S,T	0.20	JG1004-3327	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-005	84.40	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	341	A,M,S,T	0.40	JG1004-3327	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-006	84.60	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	343	A,M,S,T	0.60	JG1004-3346	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-007	84.80	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	344	A,M,S,T	0.80	JG1004-3346	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-013	85.00	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	8.0:1	-25.30	22.00	347	M,S,T	1.00	JG1004-3346	010ED17145	FT1003-063	275-6001	275-4701	175-5401
LAN-DEL-009	84.00	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-13.50	22.00	353	M,S,T	Std.	JG1004-3307	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-010	84.20	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-13.80	22.00	355	A,M,S,T	0.20	JG1004-3327	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-011	84.40	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-14.00	22.00	357	A,M,S,T	0.40	JG1004-3327	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-008	84.60	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-14.30	22.00	359	A,M,S,T	0.60	JG1004-3346	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-012	84.80	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-14.60	22.00	361	A,M,S,T	0.80	JG1004-3346	010ED17145	C4124-070/338458R	275-6001	275-4701	175-5401
LAN-DEL-014	85.00	HF Int 16V	1995	16	90.00	145.00	229	39.65	42.70	9.0:1	-14.60	22.00	363	M,S,T	1.00	JG1004-3346	010ED17145	FT1003-063	275-6001	275-4701	175-5401

Lancia Delta HF Int Turbo

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-DEL-001	84.50		1995	16	90.00			39.50		8:1		22.00	380		+0.50	J640F4-3327					
LAN-DEL-002	85.00		1995	16	90.00			39.50				22.00	386		+1.00	J640F4-3347					

Flaminia 2500

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-FLAM-002	80.50	813/823/824/826	2458	12	82.00			44.75				22.00	351		+0.50	RA154-3170		HG-LAN-020			
LAN-FLAM-001	80.50	813/823/824/826	2458	12	82.00			44.75				22.00	351		+0.50						

Flaminia 2800

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-FLAM-003	85.50	tipo 813/823/24/26	2775	12	82.00			44.50				24.00	398		+0.50			HG-LAN-021			
LAN-FLAM-005	88.50	tipo 813/823/24/26	2775	12	82.00			44.50		9.5:1		24.00	414		+3.50	JG2201-3484		HG-LAN-022			
LAN-FLAM-004	86.50	tipo 813/823/24/26	2775	12	82.00			44.50				24.00	397		+1.00	J614F4-3406		HG-LAN-022			

Flavia 1800

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-FLAV-002	88.50	tipo 815/819/820	1991	8	74.00			44.00		9.5:1	9	24.00				JG2201-3484		HG-LAN-011			
LAN-FLAV-001	88.50	tipo 815/819/820	1991	8	74.00			44.30	51	11:1		24.00	433			JG2201-3484		HG-LAN-011			

Fulvia 1300

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-FUL-002	80,00	tipo 818		8	69.70	153.00		30,40			8,00	22,00	367			XC8000				KIT-18	KIT-16
LAN-FUL-001	80,00	tipo 818		8	69.70	153.00		30,25				22,00	365			XC8000				KIT-18	KIT-16

Fulvia 1600

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-FUL-003	82.60	tipo 818	1584	8	75.00	153.00		45.60	38,00	7.8:1		22.00	373			JXC0F4-3248-2				H2687043(83.00)	
LAN-FUL-004	82.70	tipo 818	1584	8	75.00	153.00		45.60	38,00	7.8:1		22.00	371			JXC0F4-3248-2				H2687SP1043F(83.50)	
LAN-FUL-006	83.00	tipo 818	1584	8	75.00	153.00		45.60	38,00	7.8:1		22.00	370			JG1004-3268				H2687SP1043F(83.50)	
LAN-FUL-005	83.00	tipo 818	1584	8	75.00	153.00		45.60	38,00	7.8:1		22.00	373			JG1004-3268				H2687SP1043F(83.50)	



LANCIA

Lambda																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-LAM-001	83.20	tipo 67	2120	8	120.00			40.00					22.00	385								

Monte Carlo

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
LAN-MON-001	84.50	tipo 137	1995	8	90.00			38.40					22.00	353		+0.50	J640F4-3327					

LOTUS

1.6L 8V Twin Cam as in Elan 26

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
KEN-COR-008	83.00	L-block	1558	8	72.75	121.92	197.61	37.85	36.70	11.2:1	8.25		20.63	-	M,R	0.45	JG1001-3268	F-105-S-64826H-04	C4133-040			
LOT-16TC-003	83.50	L-block	1558	8	72.75	121.92	197.61	38.90	36.70				20.63	388			JXC0F4-3287-2	F-105-S-64826H-04	C4133-040			
LOT-16TC-001	83.50	L-block	1558	8	72.75	121.92	197.61	39.00	36.70				20.63	388			JXC0F4-3287-2	F-105-S-64826H-04	C4133-040			
KEN-COR-009	83.50	L-block	1558	8	72.75	121.92	197.61	37.85	36.70	11.3:1	8.25		20.63	-	M,R	0.95	JG1001-3287	F-105-S-64826H-04	C4133-040			
LOT-16TC-002	84.00	L-block	1558	8	72.80	121.92	197.61	39.10	36.70				20.63	369			JG1001-3307	F-105-S-64826H-04	C4133-040			
KEN-COR-007	84.00	L-block	1558	8	72.75	121.92	197.61	37.85	36.70	11.4:1	8.25		20.63	362	M,R	1.45	JXC0F4-3307-2	F-105-S-64826H-04	C4133-040			
KEN-COR-010	85.00	L-block	1558	8	72.75	121.92	197.61	37.85	36.70	11.6:1	8.25		20.63	-	M,N,R	2.45	JG1001-3346	F-105-S-64826H-04	C4133-040			
KEN-COR-004	83.00	L-block	1558	8	72.75	121.92	197.61	39.10	36.70	11.7:1	13.50		20.63	-	M,R	0.45	JG1001-3268		C4133-040			
KEN-COR-005	83.50	L-block	1558	8	72.75	121.92	197.61	39.10	36.70	12.0:1	13.50		20.63	-	M,R	0.95	JG1001-3287		C4133-040			
KEN-COR-003	84.00	L-block	1558	8	72.75	121.92	197.61	39.10	36.70	12.2:1	13.50		20.63	369	M,R	1.45	JG1001-3307		C4133-040			
KEN-COR-006	85.00	L-block	1558	8	72.75	121.92	197.61	39.10	36.70	12.4:1	13.50		20.63	-	M,N,R	2.45	JG1001-3346		C4133-040			

MASERATI

Quattroporte 4.9 liter V8

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MAS-QP-001	95.00		4930	32	89.00			33.00	82.10	9.5:1			25.00	436		+1.00	RA154-3740		HG-LAM-003 (L) HG-LAM-004 (R)			

Merak

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MAS-MER2.6-001	87.00	tipo C114			75			34.60					24.00	346		std	XC8700					
MAS-MER2.6-002	87.50	tipo C114	2670		75			34.60					24.00	342		+0.50	XC8750					
MAS-MER3.0-003	92.00		2965	12	75.00			34.70					24.00	405		+0.40	J614F4-3622					

MAZDA

2.3ltr V6 Miller engine

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MAZ-23V6-001	81.00	KJ	2254	24	74.20	137.90		30.00			0.00		21.00	269		+0.70	JG9004-3189					



 MERCEDES
190E 2.3ltr 16V Cosworth

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MER-190-001	96.00	M102.983	2298	8	80.25	145.00		43.15		10.3:1		22.00	493		+0.50	XH9600					

EVO 1 M102E23

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MER-M10-003	96.00	M10E23.93	2299	16	80.25	145.00		38.90	57.00	11.3:1	12.00	22.00	466	B,G,M,P	0.50	XH9600	MBH5866BAGB4-A	HG-MER-001		151-4702	
MER-M10-002	96.50	M10E23.93	2299	16	80.25	145.00		38.90	57.00	11.3:1	12.00	22.00	467	B,G,M,P	1.00	9650XX	MBH5866BAGB4-A	HG-MER-001		151-4702	
MER-M10-001	97.00	M10E23.93	2299	16	80.25	145.00		38.90	57.00	11.3:1	12.00	22.00	477	B,G,M,P	1.50	XH9700	MBH5866BAGB4-A	HG-MER-001		151-4702	

EVO 2 M102E25

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MER-M10-007	96.00	M102E125	2499	16	87.20	149.00		34.09	57.00	9.0:1	-10.00	22.00	444	B,I,M,P,S	0.50	9600XX	MBH5866BAGB4-A	HG-MER-001		151-4702	
MER-M10-004	96.00	M102E125	2499	16	87.20	149.00		34.09	57.00	12.2:1	12.00	22.00	440	B,M,P,R	0.50	XH9600	MBH5866BAGB4-A	HG-MER-001		151-4702	
MER-M10-006	96.50	M102E125	2499	16	87.20	149.00		34.09	57.00	12.2:1	12.00	22.00	441	B,M,P,R	1.00	XX9650	MBH5866BAGB4-A	HG-MER-001		151-4702	
MER-M10-005	97.00	M102E125	2499	16	87.20	149.00		34.09	57.00	12.2:1	12.00	22.00	451	B,M,P,R	1.50	XH9700	MBH5866BAGB4-A	HG-MER-001		151-4702	

 MG
K3 Magnette

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MG-K3-001	59.00		1087	12				27.00				15.00	164			2C6898					

TC Midget

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MG-TC-001	79.25	XPAG	1250	8				28.00				20.00	323								

TD Midget

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MG-TD-001	67.55	XPAG	1250	8	90.00			45.00				18.00	258		+1.05	2658XC					

MGA

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MGA-001	76.70	1588	1489	8	88.90			42.10				19.05	302		+1.31	RA084-3022		HG-MGA-001			

MG 1600 Twin Cam

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MG-16TC-001	80.50	16GA	1588		88.90			30.00	40.20	12.3:1	52.00	19.05	376			RA154-3170		HG-MGA-001			

MGB

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MGB-002	81.25	18G/V	1798	8	88.90	165.20		42.10				20.62	345		+1.00	XC8125		HG-MGB-002			
MGB-001	83.50	18G/V	1798	8	88.90	165.20		42.10				20.62	356		+3.25	JG1004-3287		HG-MGB-002			
MGB-003	83.50	18G/V	1798	8	88.90	170.60		36.50				20.62	317		+3.25			HG-MGB-002			

MGC 3000

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
MGC-004	83.50	C-Series	2639	12	89.00	165.00		47.60				22.23	430		+0.17	RB156-3288		HG-MGC-002			
MGC-002	84.50	C-Series	2639	12	89.00	165.00		47.65				22.23	415		+1.17	J640F1-3327		HG-MGC-002			
MGC-003	85.00	C-Series	2639	12	89.00	165.00		47.65				22.23	423		+1.67	E474K.50MM		HG-MGC-002			
MGC-001	86.00	C-Series	2639	12	89.00	165.00		47.65				22.23	424		+2.67			HG-MGC-002			
																		HG-MGC-001			



 OPEL / VAUXHALL

1.9L/2.8L CIH (Manta/Ascona/Senator)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
OPVA-CIH-001	92.50	C19N/C28E/C28S	1897/2784	8	69.80			45.00		9.8:1/9.0:1	-4.9 FT	23.00	418	M	0.50	JG1001-3642		C4512-051(for 1,9Ltr)			
OPVA-CIH-002	93.50	C19N/C28E/C28S	1897/2784	8	69.80			45.00		9.8:1/9.0:1	-4.9 FT	23.00	420	M	1.50	JG1001-3681		C4512-051(for 1,9Ltr)			

2.0L/3.0L CIH (Manta/Ascona/Rekord)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
OPVA-CIH-003	95.50	C20/C30	1979/2969	8	69.80	128.00	208	45.00		9.2:1	-4.9 FT	23.00	441	M	0.50	JC2801-3760		C4512-051(for 2.0 L)			

2.2L CIH (Monza/Rekord/Senator)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
OPVA-CIH-005	95.50	CIH/C22E	2197	8	77.50	141.50	221.40	41.15	53.00	9.4:1	-4.9 FT	23.00	421	M	0.50	JG1001-3760		C4512-051			
OPVA-CIH-004	96.00	CIH/C22E	2197	8	77.50	141.50	221.40	41.15	53.00	9.4:1	-4.9 FT	23.00	432	M	1.00	J62001-3780		C4512-051			
OPVA-CIH-006	97.00	CIH/C22E	2197	8	77.50	141.50	221.40	41.15	53.00	9.4:1	-4.9 FT	23.00	440	M	2.00	XH9700		C4512-051			

2.4L CIH (Rekord/Omega/Frontera)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
OPVA-CIH-008	95.50	CIH/C24NE	2459	8	85.00	134.00	208.00	31.50		12.0:1	4.60	22.00	401	M	0.50	JC2801-3760	012E17134	W6624/C4512-051/338239R			
OPVA-CIH-009	96.00	CIH/C24NE	2459	8	85.00	134.00	208.00	31.50		12.0:1	4.60	22.00	403	M	1.00	JC2801-3780	012E17134	W6624/C4512-051/338239R			
OPVA-CIH-007	97.00	CIH/C24NE	2459	8	85.00	134.00	208.00	31.50		12.0:1	4.60	22.00	412	M	2.00	XS9700	012E17134	W6624/C4512-051/338239R			

2400

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
OPVA-CIH-010	95.75			8				30.25				22.00	365			2M4999+.030					

 PANHARD

1965-67

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
PAN-001	85.25			8				41.50				20.00	504			RA154-3356					

 PORSCHE

2.0L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91120-001	80.00	901	1991	12	66.00	130.00		33.90	68.00	9.5:1	34.10	22.00	-	I,M,R,Y	Std.	JG1006-3150	PR-2.0-S-65120S-06			204-4206	
POR-91120-002	81.00	901	1991	12	66.00	130.00		33.90	68.00	9.5:1	33.20	22.00	-	I,M,R,Y	1.00	JG1006-3189	PR-2.0-S-65120S-06			204-4206	
POR-91120-004	80.00	901	1991	12	66.00	130.00		33.90	68.00	10.5:1	38.20	22.00	-	I,M,R,Y	Std.	JG1006-3150	PR-2.0-S-65120S-06			204-4206	
POR-91120-003	81.00	901	1991	12	66.00	130.00		33.90	68.00	10.5:1	37.40	22.00	-	I,M,R,Y	1.00	JG1006-3189	PR-2.0-S-65120S-06			204-4206	

2.2L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91120-005	84.00	911	2194	12	66.00	130.00		33.90	68.00	9.5:1	30.60	22.00	-	I,M,R,Y	Std.	JG1006-3307	PR-2.0-S-65120S-06				
POR-91120-007	85.00	911	2194	12	66.00	130.00		33.90	68.00	9.5:1	29.70	22.00	-	I,M,R,Y	1.00	JG1006-3346	PR-2.0-S-65120S-06				
POR-91120-009	87.50	911	2194	12	66.00	130.00		33.90	68.00	9.5:1	27.40	22.00	-	I,M,R,Y	3.50	JG1006-3445	PR-2.0-S-65120S-06				
POR-91120-006	84.00	911	2194	12	66.00	130.00		33.90	68.00	10.5:1	35.10	22.00	-	I,M,R,Y	Std.	JG1006-3307	PR-2.0-S-65120S-06				
POR-91120-008	85.00	911	2194	12	66.00	130.00		33.90	68.00	10.5:1	34.30	22.00	-	I,M,R,Y	1.00	JG1006-3346	PR-2.0-S-65120S-06				
POR-91120-010	87.50	911	2194	12	66.00	130.00		33.90	68.00	10.5:1	32.30	22.00	-	I,M,R,Y	3.50	JG1006-3445	PR-2.0-S-65120S-06				
POR-91120-011	89.00	911	2194	12	66.00	130.00		33.90	68.00	10.5:1	31.10	22.00	-	I,M,R,Y	5.00	JG1006-3504	PR-2.0-S-65120S-06				

2.3L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91123-001	84.00	911	2341	12	70.40	127.75		33.90	68.00	9.5:1	27.70	22.00	-	I,M,R,Y	Std.	JG1006-3307					
POR-91123-003	85.00	911	2341	12	70.40	127.75		33.90	68.00	9.5:1	26.80	22.00	-	I,M,R,Y	1.00	JG1006-3346					
POR-91123-005	87.50	911	2341	12	70.40	127.75		33.90	68.00	9.5:1	24.30	22.00	-	I,M,R,Y	3.50	JG1006-3445					
POR-91123-002	84.00	911	2341	12	70.40	127.75		33.90	68.00	10.5:1	32.50	22.00	-	I,M,R,Y	Std.	JG1006-3307					
POR-91123-004	85.00	911	2341	12	70.40	127.75		33.90	68.00	10.5:1	31.70	22.00	-	I,M,R,Y	1.00	JG1006-3346					
POR-91123-006	87.50	911	2341	12	70.40	127.75		33.90	68.00	10.5:1	29.50	22.00	-	I,M,R,Y	3.50	JG1006-3445					



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2.5L 944 (Water Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91125-002	100.00	M44.50/51	2479	8	78.90	150	230.30	40.80	57	8:1	-25.70	24.00		F,I,M,N	std	10000XX	PR-944-S-65906S-04	C4272-040	204-6002	204-4211	
POR-91125-001	100.00	M44.50/51	2479	8	78.90	150.00	230.30	40.75	57.00	7.5:1	-28.40	24.00	477	I,M,N	Std.	XS10400	PR-944-S-65906S-04	C4272-040	204-6002	204-4211	
POR-91125-003	100.50	M44.50/51	2479	8	78.90	150.00	230.30	40.75	57.00	7.5:1	-28.40	24.00	485	I,M,N	0.50	RA074-3957	PR-944-S-65906S-04	C4272-040	204-6002	204-4211	

2.7L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91127-001	90.00	911	2687	12	70.40	127.75		34.00	68.00	9.5:1	21.80	21.00	404	R	Std.	JG1006-3543	PR-247-S-65030S-06			204-4206	
POR-91127-005	90.00	911	2687	12	70.40	127.75		33.90	68.00	9.5:1	21.80	21.00	-	I,R,Y	Std.	JG1006-3543	PR-247-S-65030S-06			204-4206	
POR-91127-003	92.00	911	2687	12	70.40	127.75		34.00	68.00	9.5:1	19.70	21.00	419	M,R	2.00	JG1006-3622	PR-247-S-65030S-06			204-4206	
POR-91127-007	92.00	911	2687	12	70.40	127.75		33.90	68.00	9.5:1	19.70	21.00	-	I,R,Y	2.00	JG1006-3622	PR-247-S-65030S-06			204-4206	
POR-91127-009	93.00	911	2687	12	70.40	127.75		33.90	68.00	9.5:1	18.60	21.00	-	I,M,R,Y	3.00	JG1006-3661	PR-247-S-65030S-06			204-4206	
POR-91127-002	90.00	911	2687	12	70.40	127.75		34.00	68.00	10.5:1	27.30	21.00	403	R	Std.	JG1006-3543	PR-247-S-65030S-06			204-4206	
POR-91127-006	90.00	911	2687	12	70.40	127.75		33.90	68.00	10.5:1	27.30	21.00	-	I,R,Y	Std.	JG1006-3543	PR-247-S-65030S-06			204-4206	
POR-91127-004	92.00	911	2687	12	70.40	127.75		34.00	68.00	10.5:1	25.50	21.00	418	R	2.00	JG1006-3622	PR-247-S-65030S-06			204-4206	
POR-91127-008	92.00	911	2687	12	70.40	127.75		33.90	68.00	10.5:1	25.50	21.00	-	I,R,Y	2.00	JG1006-3622	PR-247-S-65030S-06			204-4206	
POR-91127-010	93.00	911	2687	12	70.40	127.75		33.90	68.00	10.5:1	24.50	21.00	-	I,M,R,Y	3.00	JG1006-3661	PR-247-S-65030S-06			204-4206	
POR-91127-011	90.00	911	2687	12	70.40	127.75		34.00	68.00	13.0:1	37.30	21.00	430	M,R	Std.	JG1006-3543	PR-247-S-65030S-06			204-4206	

3.0L 944S2/968 (Water Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-944-002	104.00	M44.40/50/51	2479	8	78.90	150.00		40.75	61.00		-23.1	24.00	581		+4.00			HG-POR-002 HG-POR-001			
POR-944-001	104.50	M44.41/43/44	2990	16	88.00	150.00		36.09	n/a	10.9:1	-25.00	24.00	459	I,M,R	0.50	J91201-4120-3	PR-944-S-65906S-04	330043R	204-6002		

3.0L 911 Turbo (Air Cooled) w/1.00mm head gasket

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91130-016	95.00	930.50/51/52	2993	12	70.40	127.75		33.90	90.00	6.5:1	6.50	22.00	-	I,M,R,T,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-018	98.00	930.50/51/52	2993	12	70.40	127.75		33.90	90.00	7.0:1	9.10	22.00	-	I,M,R,T,Y	3.00	JG1006-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-017	95.00	930.50/51/52	2993	12	70.40	127.75		33.90	90.00	7.0:1	14.00	22.00	-	I,M,R,T,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-019	98.00	930.50/51/52	2993	12	70.40	127.75		33.90	90.00	7.5:1	15.90	22.00	-	I,M,R,T,Y	3.00	JG1006-3858	PR-3.0-S-65030S-06			204-4206	

3.0L 911 Turbo (Air Cooled) w/1.00mm head gasket

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91130-016	95.00	930.50/51/52	2993	12	70.40	127.75		33.90	90.00	6.5:1	6.50	22.00	-	I,M,R,T,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	

3.0L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91130-001	95.00	930	2993	12	70.40	127.75		34.00	90.00	9.5:1	38.50	22.00	450	R	Std.	J650U6-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-005	95.00	930	2993	12	70.40	127.75		33.90	90.00	9.5:1	38.50	22.00	-	I,R,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-004	98.00	930	2993	12	70.40	127.75		34.00	90.00	9.5:1	35.20	22.00	477	R	3.00	J650U6-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-008	98.00	930	2993	12	70.40	127.75		33.90	90.00	9.5:1	35.20	22.00	-	I,R,Y	3.00	JG1006-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-011	100.00	930	2993	12	70.40	127.75		33.90	90.00	9.5:1	32.90	22.00	-	I,M,R,Y	5.00	JG1006-3937	PR-3.0-S-65030S-06			204-4206	
POR-91130-002	95.00	930	2993	12	70.40	127.75		34.00	90.00	10.5:1	44.70	22.00	472	R	Std.	J650U6-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-006	95.00	930	2993	12	70.40	127.75		33.90	90.00	10.5:1	44.70	22.00	-	I,R,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-003	98.00	930	2993	12	70.40	127.75		34.00	90.00	10.5:1	41.80	22.00	482	R	3.00	J650U6-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-009	98.00	930	2993	12	70.40	127.75		33.90	90.00	10.5:1	41.70	22.00	-	I,R,Y	3.00	JG1006-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-012	100.00	930	2993	12	70.40	127.75		33.90	90.00	10.5:1	39.80	22.00	-	I,M,R,Y	5.00	JG1006-3937	PR-3.0-S-65030S-06			204-4206	
POR-91130-014	102.00	930	2993	12	70.40	127.75		33.90	90.00	10.5:1	37.70	22.00	-	I,M,R,Y	7.00	JG3106-4020-2	PR-3.0-S-65030S-06			204-4206	
POR-91130-007	95.00	930	2993	12	70.40	127.75		33.90	90.00	11.5:1	49.70	22.00	-	I,R,Y	Std.	JG1006-3740	PR-3.0-S-65030S-06			204-4206	
POR-91130-010	98.00	930	2993	12	70.40	127.75		33.90	90.00	11.5:1	47.10	22.00	-	I,R,Y	3.00	JG1006-3858	PR-3.0-S-65030S-06			204-4206	
POR-91130-013	100.00	930	2993	12	70.40	127.75		33.90	90.00	11.5:1	45.30	22.00	-	I,M,R,Y	5.00	JG1006-3937	PR-3.0-S-65030S-06			204-4206	
POR-91130-015	102.00	930	2993	12	70.40	127.75		33.90	90.00	11.5:1	43.50	22.00	-	I,M,R,Y	7.00	JG3106-4020-2	PR-3.0-S-65030S-06			204-4206	



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PORSCHE
3.2L 911 (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91132-002	95.00	930	3164	12	74.40	127.00		32.80	90.00	9.5:1	35.10	23.00	445	M,R	Std.	J650U6-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-009	95.00	930	3164	12	74.40	127.00		32.80	90.00	9.5:1	35.10	23.00	-	I,R,Y	Std.	JG1006-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-003	98.00	930	3164	12	74.40	127.00		32.80	90.00	9.5:1	31.60	23.00	470	R	3.00	J612U6-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-012	98.00	930	3164	12	74.40	127.00		32.80	90.00	9.5:1	31.60	23.00	-	I,R,Y	3.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-015	100.00	930	3164	12	74.40	127.00		32.80	90.00	9.5:1	29.20	23.00	-	I,R,Y	5.00	JG1006-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-001	95.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	41.70	23.00	450	R	Std.	J650U6-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-010	95.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	41.70	23.00	-	I,R,Y	Std.	JG1006-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-006	98.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	38.60	23.00	466	R	3.00	J612U6-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-013	98.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	38.60	23.00	-	I,R,Y	3.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-004	100.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	36.50	23.00	491	M,R	5.00	J660U6-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-016	100.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	36.50	23.00	-	I,R,Y	5.00	JG1006-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-018	102.00	930	3164	12	74.40	127.00		32.80	90.00	10.5:1	34.30	23.00	-	I,M,R,Y	7.00	JG3106-4020-2	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-005	95.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	47.00	23.00	464	R	Std.	J650U6-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-011	95.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	47.00	23.00	-	I,R,Y	Std.	JG1006-3740	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-007	98.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	44.20	23.00	477	M,R	3.00	J612U6-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-014	98.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	44.20	23.00	-	I,R,Y	3.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-008	100.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	42.30	23.00	496	M,R	5.00	J660U6-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-017	100.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	42.30	23.00	-	I,R,Y	5.00	JG1006-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91132-019	102.00	930	3164	12	74.40	127.00		32.80	90.00	11.5:1	40.40	23.00	-	I,M,R,Y	7.00	JG3106-4020-2	PR-33-S-23-65000S-06		204-6005	204-4206	

3.3L 911(996) (Water Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91134-005	97.00	M30.69	3299	12	74.40	127.00		32.80	90.00	7.0:1	5.80	23.00	-	I,R,T,Y	Std.	JG1006-3819	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-006	97.00	M30.69	3299	12	74.40	127.00		32.80	90.00	7.5:1	12.90	23.00	-	I,R,T,Y	Std.	JG1006-3819	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-008	98.00	M30.69	3299	12	74.40	127.00		32.80	90.00	7.5:1	11.30	23.00	-	I,R,T,Y	1.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-011	100.00	M30.69	3299	12	74.40	127.00		32.80	90.00	7.5:1	8.10	23.00	-	I,R,T,Y	3.00	JG1006-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-003	97.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.0:1	17.50	23.00	-	R,T	Std.	JG1006-3819	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-007	97.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.0:1	18.90	23.00	-	I,R,T,Y	Std.	JG1006-3819	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-001	98.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.0:1	17.50	23.00	439	R,T	1.00	J612U6-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-009	98.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.0:1	17.50	23.00	-	I,R,T,Y	1.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-012	100.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.0:1	14.50	23.00	-	I,R,T,Y	3.00	JG1006-3937	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-004	97.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.5:1	22.80	23.00	-	R,T	Std.	JG1006-3819	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-002	98.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.5:1	22.80	23.00	441	R,T	1.00	J612U6-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-010	98.00	M30.69	3299	12	74.40	127.00		32.80	90.00	8.5:1	22.80	23.00	-	I,R,T,Y	1.00	JG1006-3858	PR-33-S-23-65000S-06		204-6005	204-4206	
POR-91134-013	96.00	M96.01/02/04	3387	24	78.00	145.00		32.28	n/a	11.3:1	-16.00	22.00	371	F,I,M	Std.	JG5001-3780	PR-33-S-23-65000S-06		204-6005	204-4206	

3.6L 911(964) (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91136-017	100.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	40.80	23.00	482	R	Std.	J660U6-3937	PR-33-S-23-65000S-06			204-4206	
POR-91136-018	100.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	40.80	23.00	-	I,R,Y	Std.	JG1006-3937	PR-33-S-23-65000S-06			204-4206	
POR-91136-015	102.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	38.80	23.00	494	R	2.00	J660U6-4016	PR-33-S-23-65000S-06			204-4206	
POR-91136-020	102.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	38.80	23.00	-	I,R,Y	2.00	JG3106-4020-2	PR-33-S-23-65000S-06			204-4206	
POR-91136-022	103.15	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	37.70	23.00	-	I,M,R,Y	3.15	JG31F6-4060-0	PR-33-S-23-65000S-06			204-4206	
POR-91136-024	105.03	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	35.70	23.00	-	I,M,R,Y	5.03	JG7706-4135-5	PR-33-S-23-65000S-06			204-4206	
POR-91136-016	100.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	45.80	23.00	494	R	Std.	J660U6-3937	PR-33-S-23-65000S-06			204-4206	
POR-91136-019	100.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	45.80	23.00	-	I,R,Y	Std.	JG1006-3937	PR-33-S-23-65000S-06			204-4206	
POR-91136-014	102.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	44.00	23.00	506	R	2.00	J660U6-4016	PR-33-S-23-65000S-06			204-4206	
POR-91136-021	102.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	44.00	23.00	-	I,R,Y	2.00	JG3106-4020-2	PR-33-S-23-65000S-06			204-4206	
POR-91136-023	103.15	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	43.00	23.00	-	I,M,R,Y	3.15	JG31F6-4060-0	PR-33-S-23-65000S-06			204-4206	
POR-91136-025	105.03	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	12.5:1	41.20	23.00	-	I,M,R,Y	5.03	JG7706-4135-5	PR-33-S-23-65000S-06			204-4206	
POR-91136-026	96.50	M96.03	3596	24	82.80	127.00		32.87		11.3:1	-13.00	22.00	375	F,I,M	0.50	XX9650-coated	PR-33-S-23-65000S-06			204-4206	

3.6L 911(964) (Air Cooled)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-91136-017	100.00	M64.01/02/03	3600	12	76.40	127.00		31.80	90.00	11.5:1	40.80	23.00	482	R	Std.	J660U6-3937	PR-33-S-23-65000S-06			204-4206	

356 (Speedster)

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-356-001	83.00	616.16/36	1582	8	74.00	136.00	200.00	27.00	62.00			22.00	329		+0.50	JC2904-3268					



PORSCHE

914

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-914-001	90.50	VW411	1697	8	66.00	131.00		42.00	58.00	7.3:1		24.00	420		+0.50						

924

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
POR-924-001	87.00	M31.01/03/50	1984	8	84.40	144.00		45.10				22.00	479		+0.50	JG2104-3425					

RENAULT

R5

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
REN-R5-001	76.00	840-30(C2J/C3J)	1397	8	77.00	128.00		35.60		7.0:1	6.00	20.00	282	M,R,T	Std.	XC7600		RN1004-071	216-6302		
REN-R5-002	77.00	840-30(C2J/C3J)	1397	8	77.00	128.00		35.60		7.0:1	6.00	20.00	289	M,R,T	1.00	XC7700		RN1004-071	216-6303		
REN-R5-003	78.00	840-30(C2J/C3J)	1397	8	77.00	128.00		35.60		7.0:1	6.00	20.00	299	M,R,T	2.00	XC7800		RN1006-071	216-6304		
REN-ALP-002	78.00	840-30(C2J/C3J)	1397	8	77.00	128.00		36.80		11.6:1		20.00	312		+1.00	XC7800		RN1006-071	216-6304		

Alpine

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
REN-ALP-001	91.05	Z7U-702/Z6W-700	2458	12	63.00			38.00				22.40	419		=0.05	JG2404-3587					

F7P as in Clio Williams

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
REN-F7P-001	82.00	F7P-720/722	1764	16	3.50	144.00	220.75	35.50	45.00	8.3:1	-11.00	21.00	307	M,S,T	Std.	JG1004-3228	037DZ16144	RN1002-051	216-6301		
REN-F7P-002	82.50	F7P-720/722	1764	16	3.50	144.00	220.75	35.50	45.00	8.3:1	-11.50	21.00	312	M,S,T	0.50	JG1004-3250	037DZ16144	RN1002-051	216-6301		
REN-F7P-003	83.00	F7P-720/722	1764	16	3.50	144.00	220.75	35.50	45.00	8.3:1	-12.00	21.00	314	M,S,T	1.00	JG1004-3268	037DZ16144	RN1002-051	216-6301		
REN-F7P-005	83.00	F7P-720/722	1764	16	3.50	144.00	220.75	35.50	45.00	9.5:1	-4.00	21.00	328	M,S,T	0.50	JG1001-3250	037DZ16144	RN1002-051	216-6301		
REN-F7P-004	82.50	F7P-720/722	1764	16	3.50	144.00	220.75	35.50	45.00	10.0:1	0.00	21.00	326	M,S,T	0.50	JG1001-3250	037DZ16144	RN1002-051	216-6301		

F7R as in Clio Williams

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
REN-F7R-001	82.70	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	8.5:1	-15.00	21.00	290	A,M,S,T	Std.	JG1004-3268	037DZ16144	C4539-051/338247R	216-6301		
REN-F7R-002	83.00	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	8.5:1	-15.00	21.00	292	M,S,T	0.30	JG1004-3268	037DZ16144	C4539-051/338247R	216-6301		
REN-F7R-003	84.00	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	8.5:1	-15.00	21.00	302	M,S,T	1.30	JG1004-3307	037DZ16144	C4540-051/338248R	216-6301		
REN-F7R-004	82.70	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	12.5:1	4.50	21.00	313	A,M,S	Std.	JG1004-3268	037DZ16144	C4539-051/338247R	216-6301		
REN-F7R-005	83.00	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	12.5:1	4.50	21.00	316	M,S	0.30	JG1004-3268	037DZ16144	C4539-051/338247R	216-6301		
REN-F7R-006	84.00	F7R	1998	16	93.00	144.00	220.75	30.70	45.00	12.5:1	4.50	21.00	323	M,S	1.30	JG1004-3307	037DZ16144	C4540-051/338248R	216-6301		

ROLLS ROYCE / BENTLEY

Silver Shadow

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
RRB-SS-004	104.78	L410 (UE38010BR)	6230	16	91.40			48.30		9:1	-8.8	25.40	730		+0.68	S100S8-4125-5					

Silver Cloud II, III

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
RRB-SC-002	104.78	L410 (UE8270BR)	6230	16	91.40			52.10			-12.9	22.23	753		+0.68	S100S8-4125-5					
RRB-SC-001	104.78	L410 (UE32936BR)	6230	16	91.40			52.10				25.40	751		+0.68	S100S8-4125-5					

Silver Cloud III, Bentley S3

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
RRB-SC-003	104.14	L410	6230	16	91.40			52.50				25.40									



ROVER

V8																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
ROV-35-001	90.00	30/31A	3528	16	71.12	143.76	227.58	47.40					22.23	419		+0.10	J640F4-3543					
ROV-35-002	92.00	30/31A	3528	16	71.12	143.76	227.58	32.00					22.00	354		+1.10	JG2404-3626					

SAAB

900																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
SAB-900-001	90.50	B200L	1985	8	78.00	134.00?		40.30					24.00	448		+0.50	RA084-3563					

TRIUMPH

TR3 SPRINT																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
TRI-TR3-001	92.00	PE124/4V	1998	8	78.00			32.00		10:1			22.00	349		std						
ROV-35-002	92.05	PE124/4V	1998	8	78.00			32.00					22.00	354		+0.05						

TR4																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
TRI-TR4-001	88.00	C	2138	8	92.00	158.75		49.80					22.23	466		+2.00	JG2304-3465				KIT-42	

TR6																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
TRI-TR6-001	74.95	2-1BC	1998	12	95.00	146.05		28.95					20.62	238		+0.25	2C4248					

TVR

Speed 6 as in Tuscan																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
TVR-TUS-001	96.25	AJP-6	3996	24	92.00	143.00	220.70	31.70	n/a	11.0:1	-9.50		21.00	369	M	0.25	JC2801-3789	TVR_BAJ6_OHS_5630B6H	C4527-060			
TVR-TUS-002	96.50	AJP-6	3996	24	92.00	143.00	220.70	31.70	n/a	11.0:1	-9.50		21.00	373	M	0.50	JC2801-3799	TVR_BAJ6_OHS_5630B6H	C4527-060			

AJP-8 as in Cerbera																						
Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc		Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
TVR-AJP8-001	88.50	AJP-8	4185	16	86.00	136.75	212.00	33.00	51.00	10.0:1	6.50		21.00	339	I,M,S	0.50	JG1001-3484		HG-TRV-002 (R) HG-TRV-001 (L)			
TVR-AJP8-003	88.50	AJP-8	4185	16	86.00	136.75	212.00	33.00	51.00	10.0:1	6.50		21.00	339	I,M,S	0.50	JG1001-3484		HG-TRV-002 (R) HG-TRV-001 (L)			
TVR-AJP8-002	89.00	AJP-8	4185	16	86.00	136.75	212.00	33.00	51.00	10.0:1	6.50		21.00	344	I,M,S	1.00	JG1001-3504		HG-TRV-002 (R) HG-TRV-001 (L)			
TVR-AJP8-004	89.00	AJP-8	4185	16	86.00	136.75	212.00	33.00	51.00	10.0:1	6.50		21.00	344	I,M,S	1.00	JG1001-3504		HG-TRV-002 (R) HG-TRV-001 (L)			



VOLKSWAGEN

Beetle Type 1,2 & 3 1967-up

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
	94.00		1500	8	69.00			35.00			0	22.00	397	2	+11.00	3701E					
	94.00		1500	8	69.00			35.00			0	22.00	410		+11.00	9400XX					

1.6L 8V as in Golf MK I

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
VOL-16-001	80.00	EG/YS	1588	8	80.00	136.00	220.00	40.70	2.50	10.0:1	-16.00	22.00	321	I,M	0.50	JG1001-3150	043DT17136				

1.8L 16V KR/PL

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
VOL-18-001	81.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	8.5:1	-7.60	20.00	280	Q,S,T	Std.	JG1004-3189	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-004	81.50	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	8.5:1	-8.30	20.00	288	Q,S,T	0.50	JG1004-3209	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-007	82.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	8.5:1	-9.00	20.00	286	Q,S,T	1.00	JG1004-3228	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-002	81.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	10.5:1	4.80	20.00	295	Q,S,V	Std.	JG1004-3189	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-005	81.50	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	10.5:1	4.30	20.00	298	Q,S,V	0.50	JG1004-3209	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-008	82.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	10.5:1	3.80	20.00	301	Q,S,V	1.00	JG1004-3228	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-003	81.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	11.5:1	9.30	20.00	307	Q,S,V	Std.	JG1004-3189	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-006	81.50	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	11.5:1	8.80	20.00	311	M,Q,S,V	0.50	JG1004-3209	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-009	82.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	11.5:1	8.40	20.00	313	Q,S,V	1.00	JG1004-3228	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-010	3.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	12.0:1	9.30	20.00	324	M,Q,S	2.00	JG1001-3268	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-012	3.50	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	12.0:1	9.30	20.00	329	M,Q,S	2.50	JG1001-3287	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402
VOL-18-011	84.00	KR/PL	1781	16	86.40	144.00	220.00	32.80	46.00	12.0:1	9.30	20.00	334	M,Q,S	3.00	JG1001-3307	043DQ14144/VW5669-787	C4247-040	104-6004	204-4702	204-5402

VOLVO

B20

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
VOL-B20-001	90.25	B20	1986	8	80.00	145.00	231.00	46.00				22.00	445		+1.35	RA514-3556		HG-VOL-003 HG-VOL-004		KIT-41	

B23/230

Piston Kit Part #	Bore (mm)	Eng. Code	Vol. (cc)	# Valves	Stroke	Rod Length	Block Height	Comp. Dist.	Head cc	CR	cc	Pin Ø	Weight	Foot Notes	Over size	Ring #	Connecting rods	Head Gasket	Head stud kit	Main stud kit	Rocker bolt kit
VOL-B23-001	96.50	B23	2316	8	80.00	145.00	231.50	46.50				24.00			+0.50	RB154-3800		HG-VOL-006			





JE PRO SEAL® PISTON RINGS



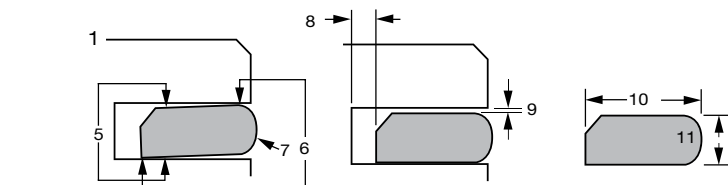
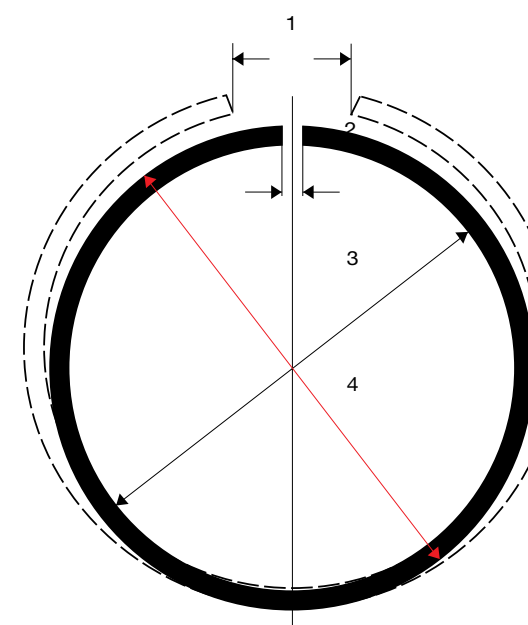
For over 70 years, JE Pistons has been the industry leader in the design, development and manufacture of forged racing pistons. The benefit of our experience, along with the technology and data gathered over the course of those years, has enabled JE to create the perfect product to compliment our high quality pistons. JE Pro Seal® Rings are the perfect ring package for your high performance engine.



TRY OUR RING SEARCH TOOL!

Visit www.jeproaseal.com to find rings quickly and easily with our ring search tool.

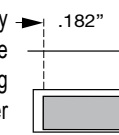
RING DIMENSIONS



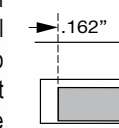
- 1. FREE GAP:** The end gap clearance when the ring is not compressed
- 2. END GAP:** The end gap clearance when the ring is compressed to the bore diameter
- 3. INSIDE DIAMETER:** The inside diameter of the ring at bore diameter
- 4. OUTSIDE DIAMETER:** The outside diameter of the ring at bore diameter
- 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

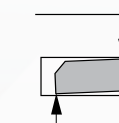
D-wall: A specification established by the Society of Automotive Engineers (S.A.E.) that dictates the radial width of a standard automotive piston ring by the use of the following formula; Bore diameter ÷ 22 = radial thickness. (4.000" ÷ 22 = .182")



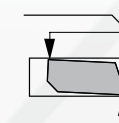
Back-cut: Used to describe a compression ring that has less than S.A.E. standard D-Wall radial thickness. Back-cutting is used to reduce natural radial ring tension. In applications with tight top ring land to piston intake valve pocket clearance problems, back cut rings allow the rings to be moved up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



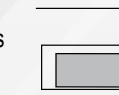
Positive Twist: An asymmetric change in the ring cross section that causes it to twist in an upward direction (towards the piston crown aiding ring sealing of the top and bottom of the ring groove. Positive twist is used only on top compression rings.



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.

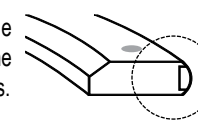


Neutral: A term used to describe a piston ring that has no torsional bias or twist.

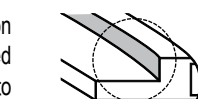


RINGFACE SHAPES

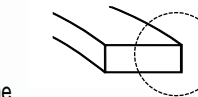
Barrel Face: Term used to describe the curved section of the ring that is in contact with the cylinder wall. Used only on top compression rings.



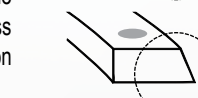
Dykes: A step cut into a top compression ring that helps to direct gas pressure to the shaded area on the back side of the ring, improving ring to cylinder wall seal.



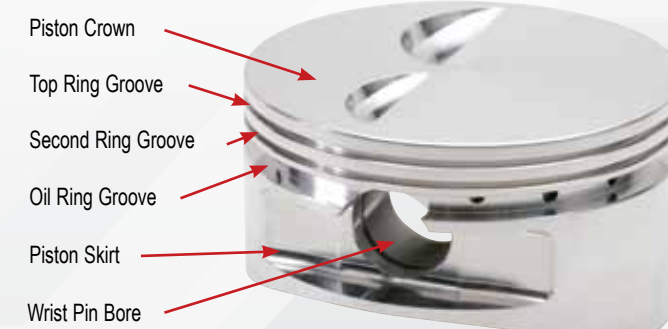
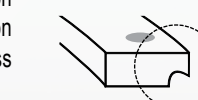
Flat Face: Simple flat rectangular shape



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.

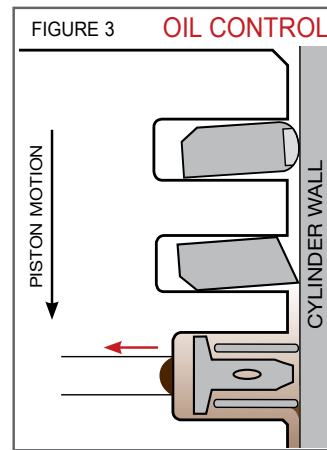
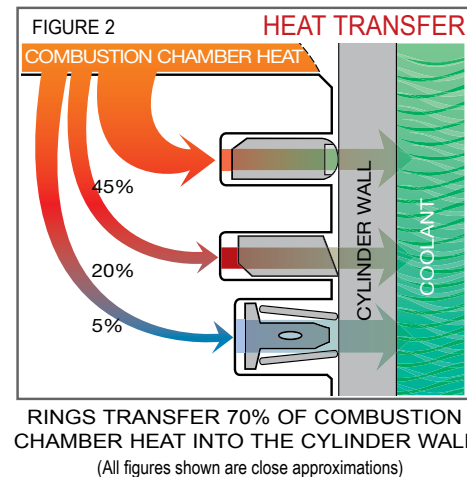
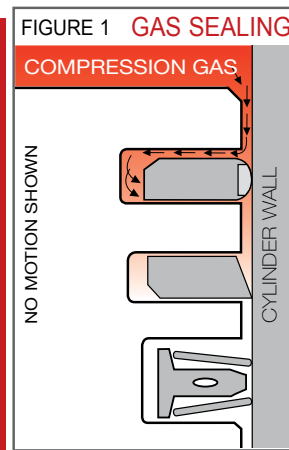


Napier: A special hooked shape found on the underside of some second compression rings used to more efficiently remove excess oil from the cylinder walls.



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



TOP RINGS

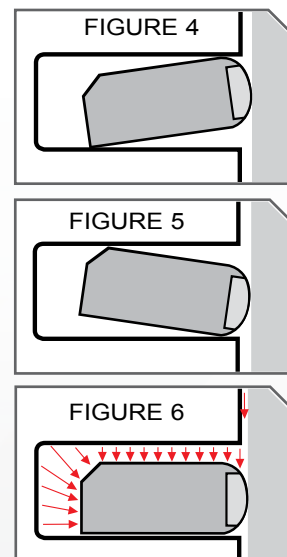
The top compression ring is responsible for creating a seal with the cylinder wall to maintain combustion chamber pressure. The top ring also transfers up to 45% of the heat generated by the combustion process to the cylinder wall en route to the engine cooling system. Top compression rings are available 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 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).

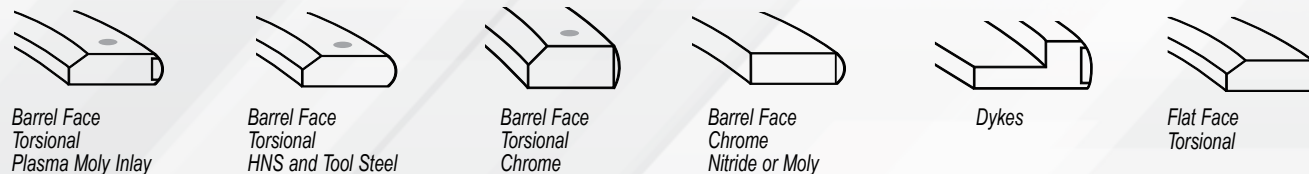
On the compression and exhaust strokes, the ring may sit flat on the groove surface (fig. 6) or be twisted upwards (fig. 4) or downwards (fig. 5), depending on the size of the chamfer, inertia forces at top and bottom of stroke and combustion chamber pressures (most notable when piston is near top dead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



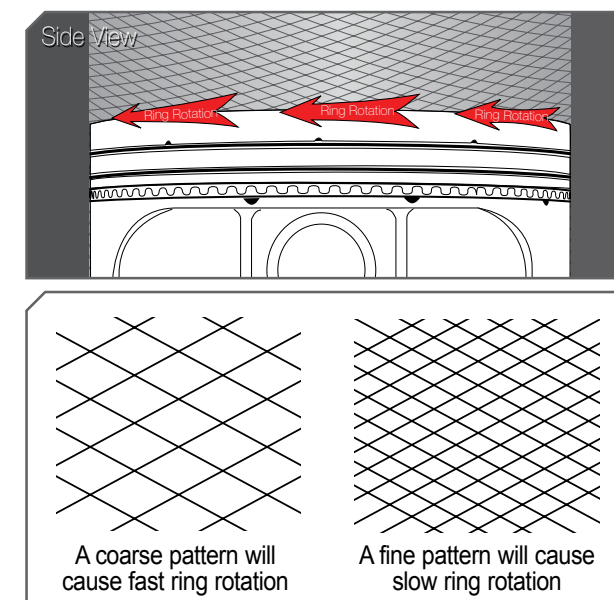
Illustrations are exaggerated for demonstration purposes

TOP RING SHAPES AND TYPES



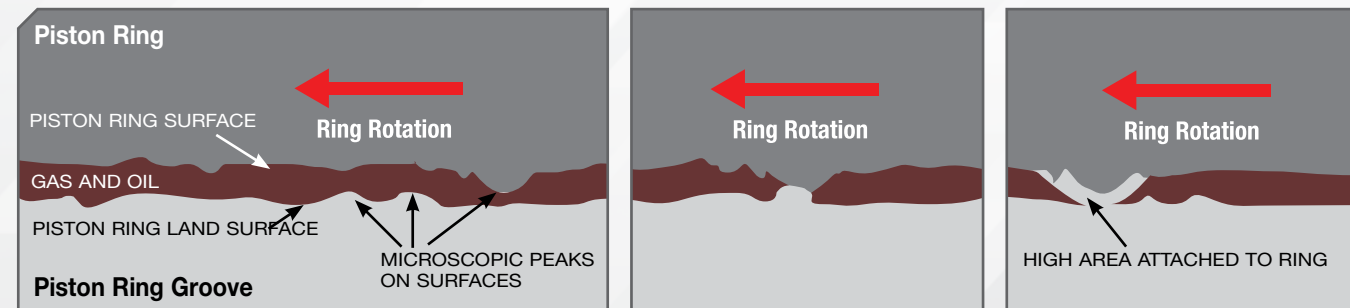
RING ROTATION

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.



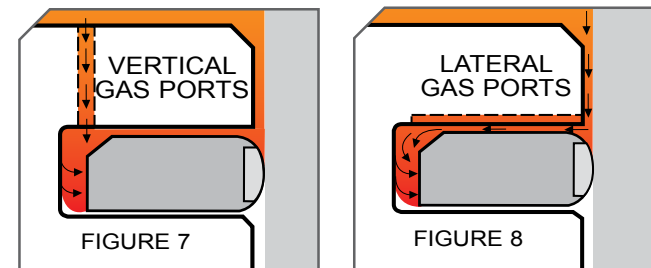
WHAT IS MICROWELDING?

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.



GAS PORTING

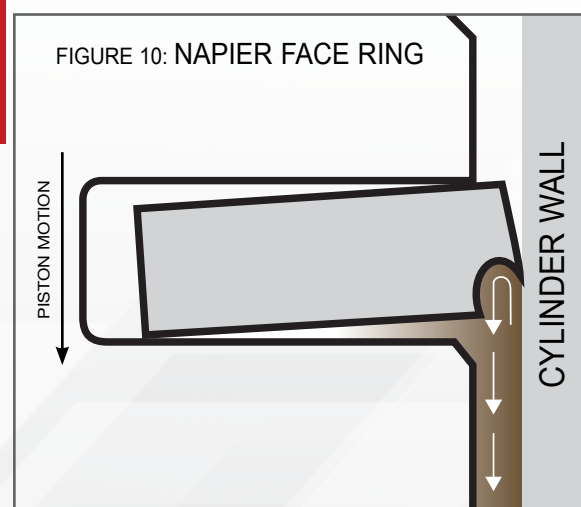
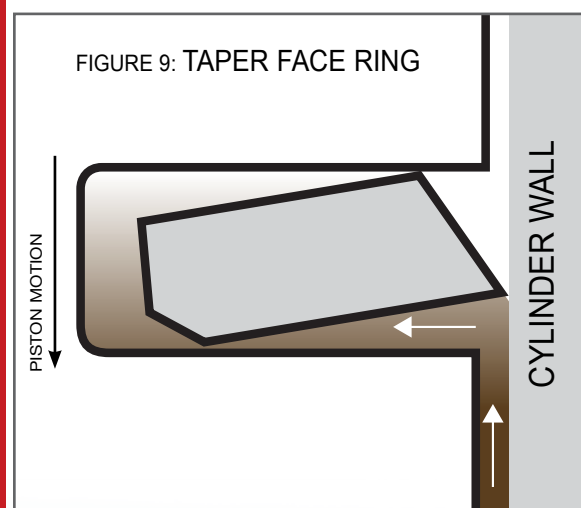
Combustion pressure can be directed behind the top ring with the addition of vertical or lateral gas ports on the piston. Vertical gas ports are small holes drilled into the top (or deck side) of the piston that lead to the back of the top ring groove. These holes allow combustion pressure to enter the 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).



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. 9). 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 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. 10).



OIL RINGS

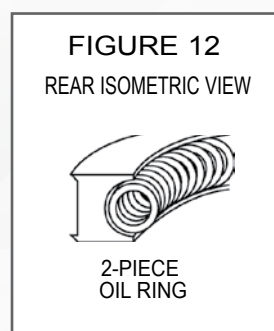
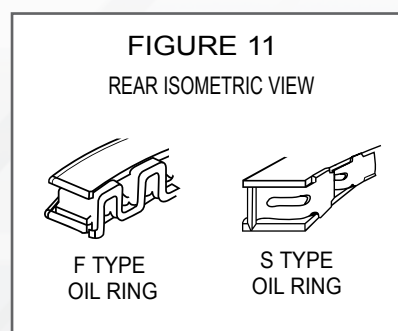
The function of an oil ring is to remove oil from the cylinder wall. In most cases, an oil ring is actually three pieces, consisting of two rails with an expander in between them. As an engine's rotating assembly continuously slings oil and creates a heavy oil mist within the crank case, oil accumulates 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.

Oil rings are offered in either high, standard or low tension versions. High and standard tension rings are most commonly used in street/street 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 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 Oil ring. This coating provides additional wear resistance for extreme applications, has a very low coefficient of friction, and is compatible with Nikasil bores.

Oil Rings are available with two different types of expanders. The "F Type" style expander (fig. 11) 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. 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 spiralspring spacer inside (fig. 12). We offer OE replacement ring sets with 2-piece oil rings in popular bore sizes for Porsche and other engines.



RING FACE COATINGS

We offer 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 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 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.

Our 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.

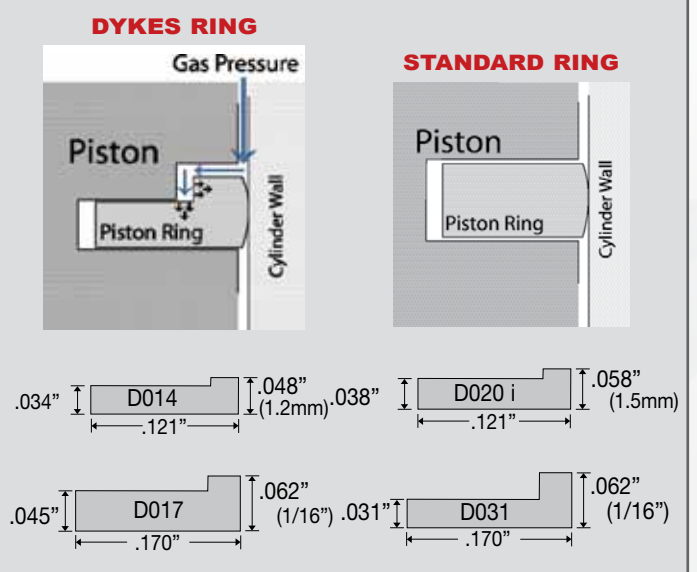
Steel and stainless steel rings are better suited for extremely high rpm applications. The higher tensile strength of steel also helps it to withstand the added abuse of high power output engines. Both steel and stainless steel are commonly used in applications where extremely thin and narrow rings are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

Use the performance matrix to help determine which ring material and style suits your racing engine or call your sales representative.

ABOUT DYKES RINGS

If you want maximum ring seal for your drag racing application, talk to your 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 GAP FILING PROCEDURES

- Check the ring gap chart (below) to determine the appropriate end gap for your bore size and application.
- The preferred 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.
- Deburr all gap edges with a soft stone or Cratex type product.



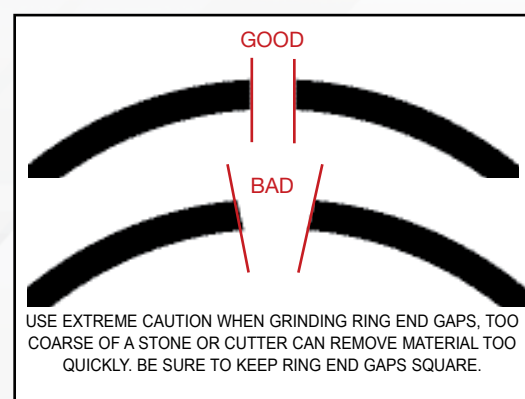
ELECTRIC RING GRINDER



ELECTRIC STYLE DEBURR WHEEL



MANUAL STYLE RING GRINDER



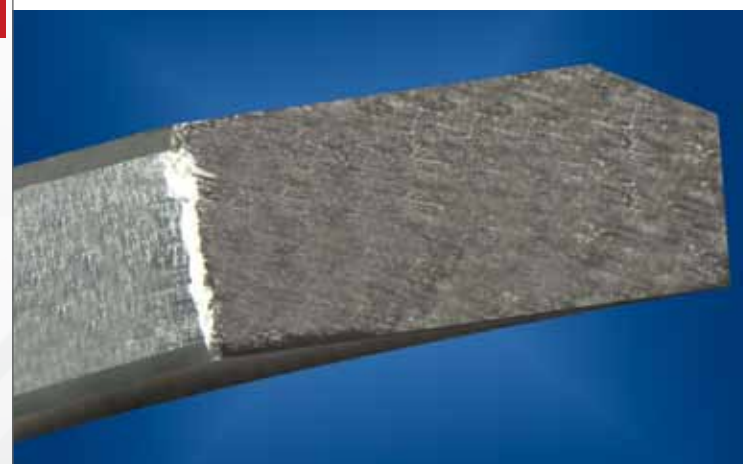
RING GAP CHART

Minimum Gap Per Inch of Bore

Application	Top Ring Bore x	2nd Ring Bore x	Oil Ring Rail 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"

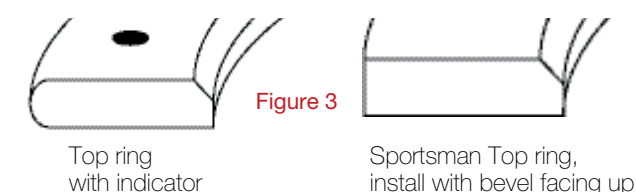
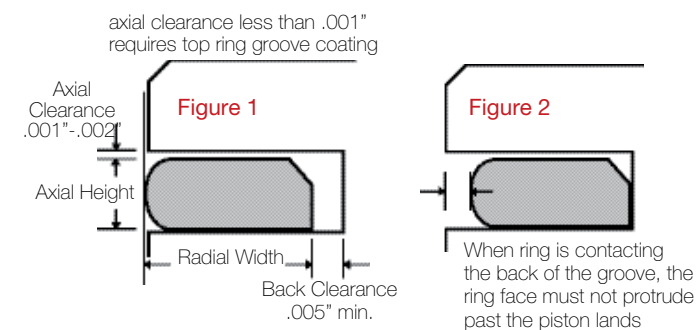
NOTE: The chart above is a general end gaps guideline. Each ring should be fitted to the particular cylinder in which they are to be installed. A difference in bore diameter of .001" should increase the ring gap by a factor of pi (3.1416, example: .001 x 3.1416 = .0031). The gap on the second ring should always be larger than the top ring end gap, this will help to reduce top ring flutter.

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.

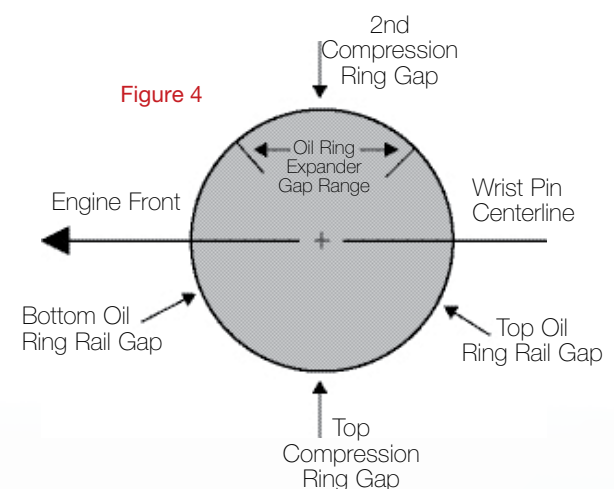


RING INSTALLATION

- 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)

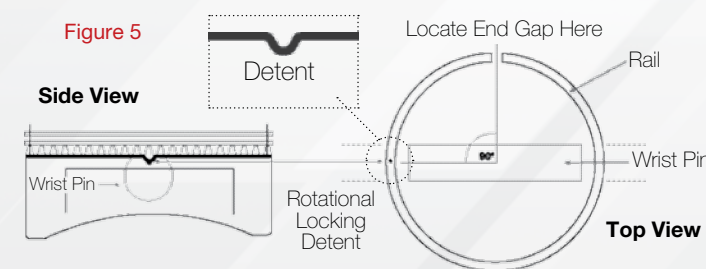


RING EXPANDER



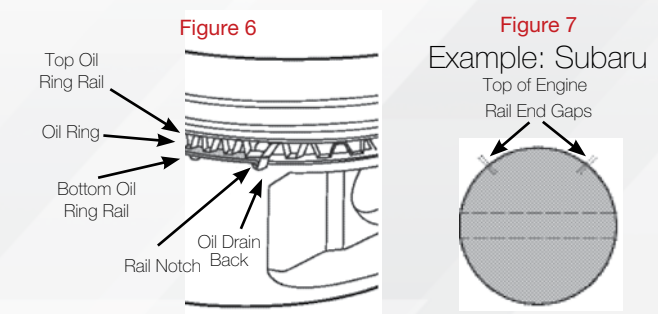
RAIL SUPPORTS

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 90° 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.





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 yellow, 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	CRITICAL TOLERANCE	CUSTOM BACKCUT	STEEL PLASMA MOLY	HARDENED DUCTILE IRON DYKES CUT	HARDENED DUCTILE IRON	STEEL GAS INTREATED	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												
	ULTRACRITICAL FINISH	CRITICAL TOLERANCE	CUSTOM BACKCUT	SERIES 750	SERIES 880H	SERIES 800-870	SERIES JG	SERIES JC, JYC	SERIES 600-690, 700-770, 900-960	SERIES 100-300	SERIES S100S	

Widely used in this category

Good for some applications

Infrequently used in this category

Cost/performance prohibitive for this category



JE Pro Seal Rings are available in a wide variety of bore sizes and material types. From street/strip applications to the ultimate in high end performance, the JE Pro Seal line is the most complete ring program in the industry. For more technical information please ask for a JE Pro Seal catalog!

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 ring groove fit and sealing properties. The lapped Ultra Finish process also yields extremely flat, smooth ring sides that result in a surface finish of less than 4µRa (4 microinches).

CRITICAL FINISH RINGS

JE ProSeal Critical Finish Rings (CFR) present an alternative to Ultra Finish Rings with the same surface finish (< 4µRa) and a lapped axial height held within +/- .00015" at a more economical price.

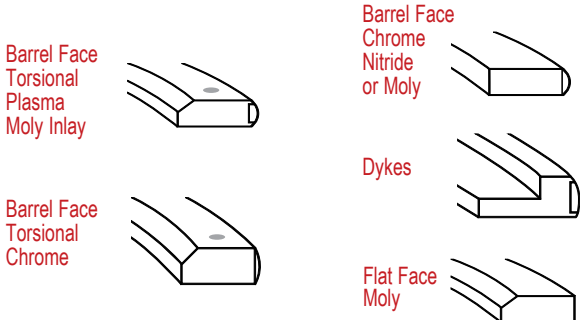
CRITICAL TOLERANCE RINGS

JE Pro Seal Critical Tolerance Rings (CTR) are held to +/- .00015 axial height and an industry standard (<40µRa) surface finish. An economical 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.

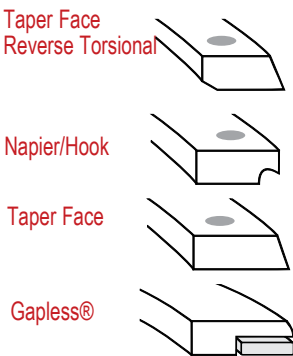
PRO STEEL RING SETS - J750, J680

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 are 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.

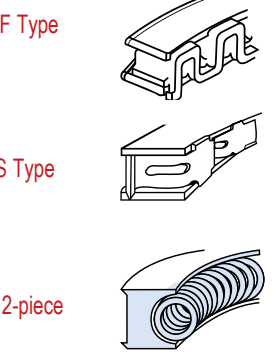
TOP RING STYLES



SECOND RINGS



OIL RINGS



"HNS" HARDENED NITROUS SERIES

J820

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" axial heights in both standard and reduced radial widths. D017 Dykes are in stock with custom Dykes or backcut sizes available.

PREMIUM RACE SERIES

J100, J200, J300, J400, J500, J600, J614, J615, J616, J640, J670, J690, J714, J880, J912, JG Series, JC Series

JE Premium Race Series rings feature the highest quality ductile iron top ring with the latest technology plasma-moly inlay. Taper faced reverse torsional second rings or Gapless® seconds are combined with either standard or low tension oil control rings.

SPORTSMAN SERIES - S100S

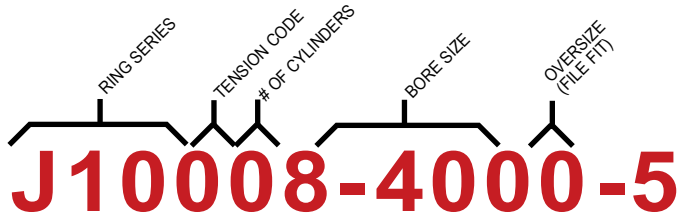
JE Pro Seal Sportsman ring packages are manufactured in our most popular bore sizes, designed with the sportsman racer in mind. Featuring a ductile iron plasma-moly inlay top, premium iron taper faced second and standard tension oil rings, these rings are only available in sets with 1/16, 1/16, 3/16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

CUSTOM RING OPTIONS

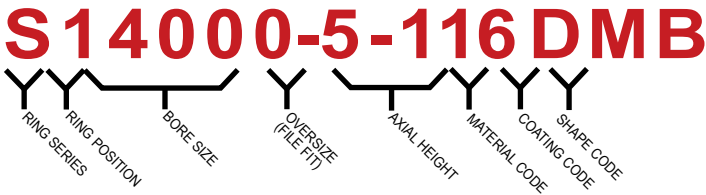
JE Pro Seal's ring manufacturing capabilities can provide custom ring solutions to your specific high performance needs. Our Custom Ring Department is armed with the latest equipment for ring design, manufacture and analysis. JE Pro Seal offers custom back-cutting to any desired radial thickness, custom 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 in the catalog, give your JE sales representative a call, chances are we can make it.



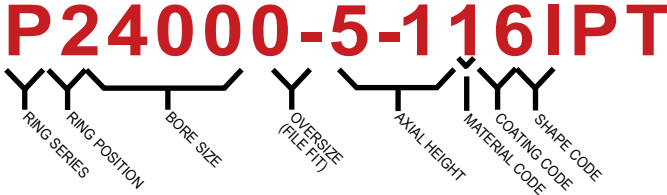
RING SERIES PART NUMBER BREAKDOWN



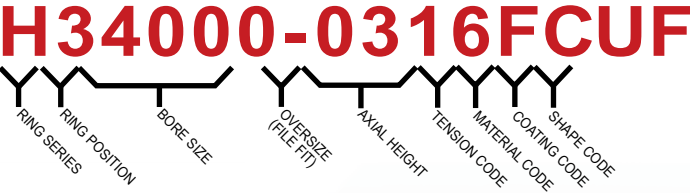
TOP RING PART NUMBER BREAKDOWN



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

OIL RING TYPES

CODE DESCRIPTION (MATERIAL, COATING, SHAPE)

CNF	Carbon Steel, Nitride, Flex Vent
CNS	Carbon Steel, Nitride, SS50U Style
CUF	Carbon Steel, Chrome, Full Seal, Flex Vent
CUS	Carbon Steel, Chrome, SS50U Style
IPD	Iron, Phosphate, 2pc W/Inner Spring Dbl Bevel
SCF	Stainless Steel, IP (CrN-Hard), Flex Vent
SNF	Stainless Steel, Nitride, Flex Vent

JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
2.283	57.99	1.0mm	0.093	CUS	1.2mm	0.106	IPA	2.5mm	0.103	CUS	1	JC3601-2283
2.362	59.99	.8mm	0.101	CUS	.8mm	0.101	DPA	1.5mm	0.095	CUF	1	XA6000
2.441	62.00	.8mm	0.101	CUS	.8mm	0.101	DPA	1.5mm	0.095	CUF	1	XA6200
2.520	64.01	.8mm	0.101	CUS	.8mm	0.101	DPA	1.5mm	0.095	CUF	1	XA6400
2.559	65.00	.8mm	0.101	CUS	.8mm	0.101	DPA	1.5mm	0.095	CUF	1	XA6500
2.559	65.00	1.0mm	0.107	CUS	1.2mm	0.115	IPA	2.8mm	0.119	CUS	1	XC6500
2.579	65.51	1.0mm	0.107	CUS	1.2mm	0.115	IPA	2.8mm	0.117	CUS	1	XC6550
2.598	65.99	.8mm	0.109	CUR	2 Ring			1.5mm	0.095	CUF	1	JC3801-2598
2.598	65.99	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6600
2.598	65.99	1.0mm	0.107	CUS	1.2mm	0.115	IPA	2.8mm	0.117	CUS	1	XC6600
2.618	66.50	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6650
2.637	66.98	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6700
2.638	67.01	1.0mm	0.107	CUS	1.2mm	0.115	IPA	2.8mm	0.117	CUS	1	XC6700
2.657	67.49	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6750
2.677	68.00	.8mm	0.109	CUR	2 Ring			1.5mm	0.095	CUF	1	JC3801-2677
2.677	68.00	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6800
2.677	68.00	1.0mm	0.107	CUS	1.2mm	0.115	IPA	2.8mm	0.117	CUS	1	XC6800
2.688	68.28	.8mm	0.109	CUR	2 Ring			1.5mm	0.095	CUF	1	JC3801-2688
2.716	68.99	.8mm	0.109	CUS	.8mm	0.109	DPA	1.5mm	0.095	CUF	1	XA6900
2.756	70.00	.8mm	0.109	CUR	2 Ring			1.5mm	0.095	CUF	1	JC3801-2756
2.756	70.00	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7000
2.756	70.00	1.0mm	0.107	CUS	1.2mm	0.123	IPA	2.8mm	0.117	CUS	1	XC7000
2.795	70.99	1.0mm	0.107	CUS	1.2mm	0.123	IPA	2.8mm	0.117	CUS	1	XC7100
2.834	71.98	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7200
2.834	71.98	1.0mm	0.107	CUS	1.2mm	0.130	IPA	2.8mm	0.117	CUS	1	XC7200
2.855	72.52	1.0mm	0.115	CUS	1.2mm	0.115	IPC	2.8mm	0.125	CUF	4	JC4704-2855
2.874	73.00	1.0mm	0.110	CNS	1.2mm	0.122	DPE	2.8mm	0.116	CNF	4	JG1004-2874
2.874	73.00	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7300
2.874	73.00	1.0mm	0.107	CUS	1.2mm	0.130	IPA	2.8mm	0.117	CUS	1	XC7300
2.894	73.51	1.0mm	0.110	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-2894
2.894	73.51	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7350
2.913	73.99	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7400
2.914	74.02	1.0mm	0.107	CUS	1.2mm	0.130	IPA	2.8mm	0.117	CUS	1	XC7400
2.933	74.50	.8mm	0.109	CUS	.8mm	0.117	DPA	1.5mm	0.095	CUF	1	XA7450
2.953	75.01	1.0mm	0.118	CUS	1.2mm	0.130	IPA	2.8mm	0.130	CUF	4	JXC0F4-2953-2
2.953	75.01	1.0mm	0.110	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-2953
2.953	75.01	1.0mm	0.107	CUS	1.2mm	0.130	IPA	2.8mm	0.117	CUS	1	XC7500
2.953	75.01	1.0mm	0.109	CUS	1.0mm	0.123	DPA	2.0mm	0.132	CUS	1	XG7500
2.953	75.01	1.0mm	0.111	CNR	1.0mm	0.123	DPA	2.0mm	0.099	CNF	1	XGN7500
2.963	75.26	1.0mm	0.114	CUS	1.2mm	0.118	IPA	2.8mm	0.125	CUF	4	JXC0F4-2963-0
2.963	75.26	1.0mm	0.109	CUS	1.2mm	0.123	IPA	2.8mm	0.105	CUS	1	XC7525
2.972	75.49	1.0mm	0.118	CUS	1.2mm	0.130	IPA	2.8mm	0.130	CUF	4	JXC0F4-2972-2
2.972	75.49	1.2mm	0.119	CUS	1.5mm	0.135	IFM	3.0mm	0.115	CUS	4	JC2304-2972
2.972	75.49	1.0mm	0.110	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-2972
2.972	75.49	1.0mm	0.107	CUS	1.2mm	0.130	IPA	2.8mm	0.119	CUS	1	XC7550
2.992	76.00	1.2mm	0.116	CUS	2 Ring			2.0mm	0.132	CUF	1	JC3401-2992
2.992	76.00	1.0mm	0.110	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-2992
2.992	76.00	1.0mm	0.117	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC7600
2.992	76.00	1.0mm	0.116	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XC7600
3.012	76.50	1.0mm	0.117	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC7650
3.012	76.50	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG7650
3.031	76.99	1.2mm	0.135	CUS	1.5mm	0.131	IUQ	4.0mm	0.131	CUS	4	JC1604-3031
3.031	76.99	.9mm	0.108	CUR	2 Ring			1.5mm	0.094	CUF	1	JC3301-3031
3.031	76.99	.8mm	0.113	CUR	2 Ring			1.5mm	0.106	CUF	1	JC3501-3031
3.031	76.99	1.0mm	0.117	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC7700
3.031	76.99	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG7700
3.031	76.99	.9mm	0.108	CUR	.8mm	0.110	CUA	1.5mm	0.094	CUF	1	XU7700
3.051	77.50	1.2mm	0.135	CUS	1.5mm	0.131	IUQ	4.0mm	0.131	CUS	4	JC1604-3051
3.051	77.50	1.2mm	0.119	CNS	1.2mm	0.143	IUL	2.8mm	0.127	CNS	4	JG0004-3051



JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
3.071	78.00	1.2mm	0.124	CUS	2 Ring			2.0mm	0.132	CUF	1	JC3401-3071
3.071	78.00	1.2mm	0.123	CUS	1.2mm	0.126	IPC	2.8mm	0.130	CUF	4	JC42F4-3071
3.071	78.00	1.2mm	0.119	CNS	1.2mm	0.143	IUL	2.8mm	0.127	CNS	4	JG0004-3071
3.071	78.00	1.0mm	0.110	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-3071
3.071	78.00	.9mm	0.115	SNS	2 Ring			1.5mm	0.106	SNF	1	JG7001-3071
3.071	78.00	1.0mm	0.122	CUS	1.2mm	0.138	IPA	2.8mm	0.128	CUS	1	XC7800
3.071	78.00	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG7800
3.091	78.51	1.2mm	0.123	CUS	1.5mm	0.135	IUA	2.8mm	0.115	CUS	4	JC3004-3091
3.091	78.51	1.2mm	0.123	CUS	1.5mm	0.135	IUA	2.8mm	..115	CUS	6	JC3006-3091
3.091	78.51	1.0mm	0.118	CNS	1.2mm	0.130	DPE	2.8mm	0.128	CNF	4	JG1004-3091
3.110	78.99	1.2mm	0.109	CUS	1.2mm	0.131	IPQ	3.0mm	0.105	CUS	4	JC1004-3110
3.110	78.99	1.2mm	0.124	CUS	2 Ring			2.0mm	0.132	CUF	1	JC3401-3110
3.110	78.99	1.0mm	0.118	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3110
3.110	78.99	1.0mm	0.123	CUS	1.2mm	0.138	IPA	2.8mm	0.128	CUS	1	XC7900
3.110	78.99	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG7900
3.130	79.50	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG7950
3.150	80.01	1.2mm	0.143	CUS	1.5mm	0.147	IFQ	4.0mm	0.133	CUS	4	JC1704-3150
3.150	80.01	1.2mm	0.124	CUS	2 Ring			2.0mm	0.132	CUF	1	JC3401-3150
3.150	80.01	.9mm	0.115	SNS	2 Ring			1.5mm	0.106	SNF	1	JG7001-3150
3.150	80.01	1.0mm	0.130	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC8000
3.150	80.01	1.0mm	0.124	CUS	1.0mm	0.124	DPA	2.0mm	0.132	CUS	1	XG8000
3.169	80.49	1.0mm	0.130	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC8050
3.188	80.98	1/16"	0.141	IMB	1/16"	0.151	IPT	4.0mm	0.150	CUF	2	J180F2-3188
3.189	81.00	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3189
3.189	81.00	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	5	JG1005-3189
3.189	81.00	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	6	JG1006-3189
3.189	81.00	1.2mm	0.119	CNS	1.5mm	0.139	IFM	3.0mm	0.117	CNS	4	JG9004-3189
3.189	81.00	1.0mm	0.130	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC8100
3.189	81.00	1.0mm	0.124	CUS	1.0mm	0.132	DPA	2.0mm	0.132	CUS	1	XG8100
3.189	81.00	1.0mm	0.118	SNR	1.0mm	0.130	DPA	2.0mm	0.128	CUS	1	XGNC8100
3.198	81.23	1/16"	0.135	IMB	1/16"	0.135	IPT	4.0mm	0.150	CUF	2	J180F2-3198
3.199	81.25	1.0mm	0.127	CUS	1.2mm	0.135	IPT	2.8mm	0.130	CUF	4	JXC0F4-3199-0
3.199	81.25	1.2mm	0.119	CNS	1.5mm	0.139	IFM	3.0mm	0.117	CNS	4	JG9004-3199
3.199	81.25	1.0mm	0.127	CUS	1.2mm	0.135	IPA	2.8mm	0.111	CUS	1	XC8125
3.203	81.36	.8mm	0.110	SNR	2 Ring			1.5mm	0.104	SAF	1	JG4801-3023
3.208	81.48	1/16"	0.147	IMB	1/16"	0.147	IPT	4.0mm	0.150	CUF	2	J180F2-3208
3.209	81.51	1.0mm	0.126	CUS	1.2mm	0.138	IPT	2.8mm	0.130	CUF	4	JXC0F4-3209-2
3.209	81.51	1.0mm	0.127	CUR	1.2mm	0.135	IPU	2.8mm	0.111	CUS	4	JC2604-3209
3.209	81.51	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3209
3.209	81.51	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	5	JG1005-3209
3.209	81.51	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	6	JG1006-3209
3.209	81.51	1.2mm	0.119	CNS	1.5mm	0.139	IFM	3.0mm	0.117	CNS	4	JG9004-3209
3.209	81.51	1.0mm	0.130	CUS	1.2mm	0.138	IPA	2.8mm	0.130	CUS	1	XC8150
3.218	81.74	1/16"	0.147	IMB	1/16"	0.147	IPT	4.0mm	0.150	CUF	2	J180F2-3218
3.228	81.99	1.0mm	0.130	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	4	JXC0F4-3228-0
3.228	81.99	1.0mm	0.130	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	6	JXC0F6-3228-0
3.228	81.99	1/16"	0.152	IMB	1/16"	0.152	IPT	4.0mm	0.155	CUF	2	J180F2-3228
3.228	81.99	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3228
3.228	81.99	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	5	JG1005-3228
3.228	81.99	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	6	JG1006-3228
3.228	81.99	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.130	CUS	1	XC8200
3.228	81.99	1.0mm	0.124	CUS	1.0mm	0.132	DPA	2.0mm	0.132	CUS	1	XG8200
3.240	82.30	1.2mm	0.127	CNS	1.5mm	0.155	IUM	3.0mm	0.117	CNS	4	JG2604-3240
3.248	82.50	1.0mm	0.130	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	4	JXC0F4-3248-2
3.250	82.55	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3250
3.250	82.55	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	5	JG1005-3250
3.250	82.55	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.130	CUS	1	XC8255
3.268	83.01	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	4	JG1004-3268
3.268	83.01	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	5	JG1005-3268
3.268	83.01	1.0mm	0.126	CNS	1.2mm	0.138	DPE	2.8mm	0.128	CNF	6	JG1006-3268
3.268	83.01	1.2mm	0.126	CNR	1.5mm	0.146	IPQ	3.0mm	0.130	CNS	4	JG2904-3268

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
3.268	83.01	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.128	CUS	1	XC8300
3.268	83.01	1.0mm	0.124	CUS	1.0mm	0.132	DPA	2.0mm	0.132	CUS	1	XG8300
3.287	83.49	1.5mm	0.135	CUR	1.5mm	0.147	IFM	3.0mm	0.115	CNS	4	JC6004-3287
3.287	83.49	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3287
3.287	83.49	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	5	JG1005-3287
3.287	83.49	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3287
3.287	83.49	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.128	CUS	1	XC8350
3.307	84.00	1.0mm	0.126	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	4	JXC0F4-3307-2
3.307	84.00	1.0mm	0.126	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	6	JXC0F6-3307-2
3.307	84.00	1.5mm	0.141	DMB	1.5mm	0.157	IPT	4.0mm	0.135	CUF	4	J640F4-3307
3.307	84.00	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3307
3.307	84.00	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	5	JG1005-3307
3.307	84.00	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3307
3.307	84.00	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.128	CUS	1	XC8400
3.317	84.25	1.5mm	0.141	DMB	1.5mm	0.157	IPT	4.0mm	0.140	CUF	4	J640F4-3317
3.327	84.51	1.5mm	0.141	DMB	1.5mm	0.150	IPT	4.0mm	0.135	CUF	4	J640F4-3327
3.327	84.51	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3327
3.327	84.51	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3327
3.327	84.51	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.128	CUS	1	XC8450
3.346	84.99	1.0mm	0.126	CUS	1.2mm	0.142	IPT	2.8mm	0.130	CUF	4	JXC0F4-3346-2
3.346	84.99	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3346
3.346	84.99	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3346
3.346	84.99	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.130	CUS	1	XC8500
3.347	85.01	1.5mm	0.141	DMB	1.5mm	0.150	IPT	4.0mm	0.135	CUF	4	J640F4-3347
3.347	85.01	1.2mm	0.127	CNS	1.5mm	0.155	IUU	3.0mm	0.117	CNS	4	JG2704-3347
3.347	85.01	1.0mm	0.130	CNS	1.2mm	0.142	IPC	2.0mm	0.118	CUF	1	XR8500
3.366	85.50	1.5mm	0.153	DMH	1.5mm	0.152	IPT	4.0mm	0.135	CUF	4	J670F4-3366
3.366	85.50	1.2mm	0.130	CUS	1.5mm	0.152	IPT	3.0mm	0.105	CUF	4	JC1904-3366
3.366	85.50	1.2mm	0.131	CUS	1.2mm	0.150	IPT	2.8mm	0.135	CUF	1	JC80F1-3366
3.366	85.50	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3366
3.366	85.50	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3366
3.366	85.50	1.2mm	0.127	CNS	1.5mm	0.155	IUU	3.0mm	0.117	CNS	4	JG2704-3366
3.376	85.75	1.2mm	0.130	CUS	1.5mm	0.152	IPT	3.0mm	0.105	CUF	4	JC1904-3376
3.376	85.75	1.2mm	0.127	CNS	1.5mm	0.155	IUU	3.0mm	0.117	CNS	4	JG2704-3376
3.386	86.00	1.5mm	0.152	DMB	1.5mm	0.159	IPQ	4.0mm	0.145	CUF	4	J614F4-3386
3.386	86.00	1.2mm	0.119	CUS	1.2mm	0.139	IPA	2.8mm	0.117	CUS	4	JC0004-3386
3.386	86.00	1.2mm	0.133	CUS	1.5mm	0.154	IPT	3.0mm	0.105	CUF	4	JC1904-3386
3.386	86.00	1.2mm	0.133	CUS	1.5mm	0.154	IPT	3.0mm	0.105	CUF	6	JC1906-3386
3.386	86.00	1.5mm	0.127	CUR	1.5mm	0.149	IUM	3.0mm	0.123	CUS	4	JC2904-3386
3.386	86.00	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	4	JG1004-3386
3.386	86.00	1.0mm	0.126	CNS	1.2mm	0.142	DPE	2.8mm	0.128	CNF	6	JG1006-3386
3.386	86.00	1.2mm	0.127	CNR	1.5mm	0.155	IUQ	3.0mm	0.105	CNS	4	JG2804-3386
3.386	86.00	1.2mm	0.127	CNR	1.5mm	0.155	IUQ	3.0mm	0.105	CNS	6	JG2806-3386
3.386	86.00	1.0mm	0.130	CUS	1.2mm	0.142	IPA	2.8mm	0.130	CUS	1	XC8600
3.386	86.00	1.0mm	0.130	CNS	1.2mm	0.142	IPC	2.0mm	0.118	CUF	1	XR8600
3.405	86.49	1.5mm	0.153	DUH	1.5mm	0.161	IPX	4.0mm	0.145	CUF	4	JC11F4-3405
3.405	86.49	1.5mm	0.153	DUH	1.5mm	0.161	IPX	4.0mm	0.145	CUF	6	JC11F6-3405
3.405	86.49	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	4	JG1004-3405
3.405	86.49	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	6	JG1006-3405
3.406	86.51	1.5mm	0.153	DMB	1.5mm	0.161	IPQ	4.0mm	0.145	CUF	4	J614F4-3406
3.406	86.51	1.2mm	0.127	CUR	1.5mm	0.155	IPQ	3.0mm	0.105	CUS	4	JC2104-3406
3.406	86.51	1.2mm	0.127	CUR	1.5mm	0.155	IPQ	3.0mm	0.105	CUS	6	JC2106-3406
3.425	87.00	1.2mm	0.131	CUS	1.2mm	0.144	IPT	2.8mm	0.105	CUF	4	JC0004-3425
3.425	87.00	1.5mm	0.142	DMB	1.5mm	0.142	IPK	4.0mm	0.135	CUF	4	J615F4-3425
3.425	87.00	1.2mm	0.127	CUR	1.5mm	0.155	IPQ	3.0mm	0.105	CUS	4	JC2104-3425
3.425	87.00	1.2mm	0.127	CUR	1.5mm	0.155	IPQ	3.0mm	0.105	CUS	6	JC2106-3425
3.425	87.00	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	4	JG1004-3425
3.425	87.00	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	6	JG1006-3425
3.425	87.00	1.5mm	0.135	CNS	1.5mm	0.155	IPQ	4.0mm	0.125	CNS	4	JG2104-3425
3.425	87.00	1.0mm	0.130	CUS	1.2mm	0.150	IPA	2.8mm	0.130	CUS	1	XC8700
3.445	87.50	1.5mm	0.142	DMB	1.5mm	0.142	IPK	4.0mm	0.135	CUF	4	J615F4-3445



JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
3.445	87.50	1.2mm	0.139	CUS	1.2mm	0.144	IPT	2.8mm	0.105	CUF	4	JC8004-3445
3.445	87.50	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	4	JG1004-3445
3.445	87.50	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	6	JG1006-3445
3.445	87.50	1.5mm	0.135	CNS	1.5mm	0.151	IFU	4.0mm	0.117	CUS	4	JG2204-3445
3.445	87.50	1.0mm	0.130	CUS	1.2mm	0.150	IPA	2.8mm	0.130	CUS	1	XC8750
3.465	88.01	1.2mm	0.139	CUS	1.2mm	0.144	IPT	3.0mm	0.155	CUF	4	JC1204-3465
3.465	88.01	1.2mm	0.143	CMB	1.2mm	0.144	IPT	3.0mm	0.155	CUF	4	JM1004-3465
3.465	88.01	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	4	JG1004-3465
3.465	88.01	1.0mm	0.130	CUS	1.2mm	0.150	IPA	2.8mm	0.130	CUS	1	XC8800
3.484	88.49	1.0mm	0.134	CNS	1.2mm	0.146	DPE	2.8mm	0.128	CNF	4	JG1004-3484
3.484	88.49	1.5mm	0.135	CNS	1.5mm	0.151	IFU	4.0mm	0.117	CUS	6	JG2206-3484
3.484	88.49	1.0mm	0.130	CUS	1.2mm	0.150	IPA	2.8mm	0.130	CUS	1	XC8850
3.498	88.85	1/16"	0.156	IMH	1/16"	0.156	IPT	5/32"	0.182	CUF	2	J140F2-3498
3.498	88.85	1/16"	0.162	IMB	1/16"	0.156	IPT	3/16"	0.182	CUF	2	J120F2-3498
3.503	88.98	1/16"	0.153	IMH	1/16"	0.156	IPT	5/32"	0.182	CUF	2	J140F2-3503
3.504	89.00	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3504
3.504	89.00	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	6	JG1006-3504
3.504	89.00	1.5mm	0.135	CNS	1.5mm	0.161	IUM	4.0mm	0.133	CUS	4	JG2004-3504
3.504	89.00	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC8900
3.508	89.10	1/16"	0.156	IMH	1/16"	0.156	IPT	5/32"	0.187	CUF	2	J140F2-3508
3.514	89.26	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC8925
3.518	89.36	1/16"	0.157	IMH	1/16"	0.157	IPT	5/32"	0.192	CUF	2	J140F2-3518
3.518	89.36	1/16"	0.162	IMB	1/16"	0.156	IPT	3/16"	0.192	CUF	2	J120F2-3518
3.524	89.51	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3524
3.524	89.51	1.5mm	0.135	CNS	1.5mm	0.161	IUM	4.0mm	0.133	CUS	4	JG2004-3524
3.524	89.51	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC8950
3.528	89.61	1/16"	0.157	IMH	1/16"	0.157	IPT	5/32"	0.187	CUF	2	J140F2-3528
3.528	89.61	1/16"	0.162	IMB	1/16"	0.156	IPT	3/16"	0.192	CUF	2	J120F2-3528
3.534	89.76	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC8975
3.538	89.87	1/16"	0.162	IMB	1/16"	0.156	IPT	3/16"	0.192	CUF	2	J120F2-3538
3.543	89.99	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3543
3.543	89.99	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	6	JG1006-3543
3.543	89.99	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC9000
3.550	90.17	1.5mm	0.155	CMR	1.5mm	0.162	IPT	3.0mm	0.150	CUF	8	J68008-3550-5
3.551	90.20	1.5mm	0.156	IES	1.5mm	0.161	IPT	3.0mm	0.129	CUS	8	J613F8-3551
3.551	90.20	1.2mm	0.135	CNS	1.5mm	0.159	IFC	3.0mm	0.127	CUF	1	JG3201-3551-0
3.551	90.20	1.2mm	0.135	CNS	1.5mm	0.159	IFC	3.0mm	0.127	CUF	8	JG3208-3551-0
3.563	90.50	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3563
3.563	90.50	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	8	JG1008-3563
3.563	90.50	1.0mm	0.130	CUS	1.2mm	0.154	IPA	2.8mm	0.130	CUS	1	XC9050
3.570	90.68	1.5mm	0.155	CMR	1.5mm	0.167	IPT	3.0mm	0.150	CUF	8	J68008-3570-5
3.571	90.70	1.5mm	0.143	CMS	1.5mm	0.166	IPT	3.0mm	0.145	CUS	8	J101F8-3571
3.571	90.70	1.2mm	0.135	CNS	1.5mm	0.159	IFC	3.0mm	0.127	CUF	1	JG3201-3571-0
3.571	90.70	1.2mm	0.135	CNS	1.5mm	0.159	IFC	3.0mm	0.127	CUF	8	JG3208-3571-0
3.582	90.98	1.5mm	0.155	DMH	1.5mm	0.166	IPT	3.0mm	0.145	CUS	8	J617F8-3582-5
3.583	91.01	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3583
3.583	91.01	1.0mm	0.140	CUS	1.2mm	0.158	IPA	2.8mm	0.130	CUS	1	XC9100
3.587	91.11	1.2mm	0.135	CUS	1.5mm	0.155	IUM	3.0mm	0.119	CUS	4	JC2204-3587
3.587	91.11	1.5mm	0.135	CNS	1.5mm	0.155	IUA	4.0mm	0.133	CNS	4	JG2404-3587
3.602	91.50	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	4	JG1004-3602
3.602	91.50	1.0mm	0.134	CNS	1.2mm	0.150	DPE	2.8mm	0.128	CNF	6	JG1006-3602
3.606	91.59	1.2mm	0.135	CUS	1.5mm	0.155	IUM	3.0mm	0.119	CUS	6	JC2206-3606
3.622	92.00	1.2mm	0.135	CUS	1.5mm	0.151	IFA	3.0mm	0.155	CUF	4	JC9004-3622
3.622	92.00	1.5mm	0.136	DMB	1.5mm	0.151	IPT	3.0mm	0.125	CUF	4	J610F4-3622
3.622	92.00	1.5mm	0.137	DMB	1.5mm	0.162	IPQ	4.0mm	0.135	CUF	4	J614F4-3622
3.622	92.00	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	4	JG1004-3622
3.622	92.00	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	6	JG1006-3622
3.622	92.00	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	8	JG1008-3622
3.622	92.00	1.0mm	0.138	CUS	1.2mm	0.162	IPA	2.8mm	0.130	CUS	1	XC9200
3.625	92.08	1/16"	0.170	IMH	1/16"	0.170	IPT	5/32"	0.182	CUF	2	J140F2-3625
3.625	92.08	1/16"	0.170	IMH	1/16"	0.170	IPT	3/16"	0.182	CUF	2	J150F2-3625

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
3.625	92.08	1/16"	0.170	IMH	1/16"	0.170	IPT	3/16"	0.182	CUF	4	J150F4-3625
3.626	92.10	1.5mm	0.135	CNS	1.5mm	0.155	IUA	4.0mm	0.133	CNS	4	JG2404-3626
3.642	92.51	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	8	JG1008-3632
3.635	92.33	1/16"	0.170	DMK	1/16"	0.170	IPT	3/16"	0.187	CUF	1	J160F1-3635
3.635	92.33	1/16"	0.170	DMK	1/16"	0.170	IPT	5/32"	0.177	CUF	2	J170F2-3635
3.642	92.51	1.5mm	0.137	DMB	1.5mm	0.162	IPQ	4.0mm	0.140	CUF	4	J614F4-3642
3.642	92.51	1.2mm	0.135	CUS	1.5mm	0.151	IPC	3.0mm	0.135	CUF	4	J91204-3642
3.642	92.51	1.2mm	0.135	CUR	1.5mm	0.151	IPA	3.0mm	0.127	CUS	4	JC2404-3642
3.642	92.51	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	4	JG1004-3642
3.642	92.51	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	6	JG1006-3642
3.642	92.51	1.0mm	0.142	CNS	1.2mm	0.154	DPE	2.8mm	0.128	CNF	8	JG1008-3642
3.642	92.51	1.5mm	0.135	CNS	1.5mm	0.162	IUM	4.0mm	0.133	CNS	4	JG2504-3642
3.642	92.51	1.5mm	0.135	CNS	1.5mm	0.162	IUM	4.0mm	0.133	CNS	6	JG2506-3642
3.645	92.58	1/16"	0.171	IMB	1/16"	0.171	IPT	3/16"	0.182	CUF	1	J120F1-3645
3.652	92.76	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	6	JG1006-3652
3.652	92.76	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	8	JG1008-3652
3.652	92.76	1.5mm	0.135	CNS	1.5mm	0.162	IUM	4.0mm	0.133	CNS	4	JG2504-3652
3.655	92.84	1/16"	0.171	IMB	1/16"	0.171	IPT	3/16"	0.182	CUF	1	J120F1-3655
3.661	92.99	1.0mm	0.126	SNS	1.2mm	0.150	IUS	2.5mm	0.130	SNF	4	JG4004-3661
3.661	92.99	1.0mm	0.126	SNS	1.2mm	0.150	IUS	2.5mm	0.130	SNF	8	JG4008-3661
3.661	92.99	1.0mm	0.126	SAS	1.2mm	0.146	SNA	2.5mm	0.130	SCF	8	JG4108-3661
3.661	92.99	1.5mm	0.143	CUR	1.5mm	0.161	IPU	3.0mm	0.117	CUS	6	JC1806-3661
3.661	92.99	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	4	JG1004-3661
3.661	92.99	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	6	JG1006-3661
3.661	92.99	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	8	JG1008-3661
3.661	92.99	1.0mm	0.138	CUS	1.2mm	0.166	IPA	2.8mm	0.130	CUS	1	XC9300
3.661	92.99	1.0mm	0.126	SNS	1.2mm	0.150	IUS	2.5mm	0.130	SNF	4	JG4004-3661
3.661	92.99	1.0mm	0.126	SNS	1.2mm	0.150	IUS	2.5mm	0.130	SNF	8	JG4008-3661
3.661	92.99	1.0mm	0.126	SAS	1.2mm	0.146	SNA	2.5mm	0.130	SCF	8	JG4108-3661
3.665	93.09	1/16"	0.171	IMB	1/16"	0.171	IPT	3/16"	0.182	CUF	1	J120F1-3665
3.665	93.09	1/16"	0.171	IMB	1/16"	0.171	IPT	3/16"	0.182	CUF	6	J120F6-3665
3.681	93.50	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	4	JG1004-3681
3.700	93.98	1.5mm	0.162	DMK	1.5mm	0.162	IPT	4.0mm	0.162	CUF	4	J630F4-3700
3.701	94.01	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	4	JG1004-3701
3.701	94.01	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	6	JG1006-3701
3.701	94.01	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	8	JG1008-3701
3.701	94.01	1.0mm	0.138	CUS	1.2mm	0.162	IPA	2.8mm	0.130	CUS	1	XC9400
3.711	94.25	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	CNF	4	JG1004-3711
3.740	95.00	1.5mm	0.164	DMK	1.5mm	0.164	IPT	3.0mm	0.150	CUF	4	J62004-3740
3.740	95.00	1.5mm	0.160	IPL	1.75mm	0.160	IPE	3.5mm	0.160	IPD	6	J650U6-3740
3.740	95.00	1.2mm	0.147	CUS	1.5mm	0.167	IPA	4.0mm	0.136	CUS	1	XH9500
3.740	95.00	1.2mm	0.155	DNS	1.5mm	0.167	IPA	4.0mm	0.134	CNS	1	XJ9500
3.740	95.00	1.2mm	0.147	CUS	1.5mm	0.167	IPA	2.0mm	0.113	CUF	1	XS9500
3.740	95.00	1.2mm	0.147	CUS	2 Ring			2.0mm	0.113	CUF	1	ZS9500
3.750	95.25	1/16"	0.164	IMB	1/16"	0.164	IPT	4.0mm	0.135	CUF	1	J180F1-3750
3.750	95.25	1.5mm	0.176	DMH	1.5mm	0.176	IPT	2.5mm	0.150	CUF	1	XK3750
3.755	95.38	1.5mm	0.176	DMH	1.5mm	0.176	IPT	2.5mm	0.150	CUF	1	XK3755
3.760	95.50	1/16"	0.164	IMB	1/16"	0.164	IPT	4.0mm	0.140	CUF	1	J180F1-3760
3.760	95.50	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	6	JC2806-3760
3.760	95.50	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	8	JC2808-3760
3.760	95.50	1.2mm	0.141	CUS	2 Ring			2.5mm	0.115	CUS	1	JC3201-3760
3.760	95.50	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	DPE	6	JG1006-3760
3.760	95.50	.95mm	0.127	CNN	1.2mm	0.170	IPT	2.0mm	0.106	CUF	1	JG3701-3760
3.760	95.50	1.5mm	0.176	DMH	1.5mm	0.176	IPT	2.5mm	0.155	CUF	1	XK3760
3.760	95.50	.95mm	0.127	CNN	2 Ring			2.0mm	0.106	CUF	1	ZV9550
3.766	95.66	1/16"	0.172	DMB	1/16"	0.172	IPT	3/16"	0.190	CUS	8	J100F8-3766-5
3.770	95.76	1/16"	0.164	IMB	1/16"	0.164	IPT	4.0mm	0.145	CUF	1	J180F1-3770
3.770	95.76	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	6	JC2806-3770
3.770	95.76	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	8	JC2808-3770
3.779	95.99	1.2mm	0.147	CUS	1.5mm	0.167	IPA	4.0mm	0.136	CUS	1	XH9600
3.779	95.99	1.2mm	0.147	CUS	1.5mm	0.167	IPA	2.0mm	0.108	CUF	1	XS9600



JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
3.779	95.99	.95mm	0.127	CNN	2 Ring			2.0mm	0.106	CUF	1	ZV9600
3.780	96.01	1.5mm	0.165	DMK	1.5mm	0.165	IPT	3.0mm	0.150	CUF	4	J62004-3780
3.780	96.01	1.5mm	0.165	DMK	1.5mm	0.165	IPT	4.0mm	0.140	CUF	4	J630F4-3780
3.780	96.01	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	6	JC2806-3780
3.780	96.01	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	8	JC2808-3780
3.780	96.01	1.0mm	0.142	CNS	1.2mm	0.158	DPE	2.8mm	0.128	DPE	6	JG1006-3780
3.780	96.01	.95mm	0.127	CNN	1.5mm	0.165	IPT	2.0mm	0.106	CUF	1	JG5001-3780
3.789	96.24	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	6	JC2806-3789
3.789	96.24	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	8	JC2808-3789
3.796	96.42	1/16"	0.176	DMK	1/16"	0.176	IPT	3/16"	0.192	CUF	8	J160F8-3796
3.799	96.49	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	6	JC2806-3799
3.799	96.49	1.2mm	0.141	CUS	1.2mm	0.166	IFM	2.5mm	0.113	CUS	8	JC2808-3799
3.800	96.52	1/16"	0.173	DMB	1/16"	0.173	IPT	3/16"	0.190	CUS	6	J100L6-3800-5
3.810	96.77	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.190	CUS	4	J100S4-3810-5
3.810	96.77	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.190	CUS	4	J10004-3810-5
3.810	96.77	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.190	CUS	6	J10006-3810-5
3.810	96.77	1.5mm	0.179	DMB	1.5mm	0.165	IPT	4.0mm	0.125	CUF	4	J64004-3810
3.818	96.98	1/16"	0.179	IMH	1/16"	0.179	IPT	5/32"	0.182	CUF	1	J190F1-3818
3.819	97.00	1.0mm	0.143	CNS	1.2mm	0.159	DPE	2.8mm	0.126	CNF	4	JG1004-3819
3.819	97.00	1.0mm	0.143	CNS	1.2mm	0.159	DPE	2.8mm	0.126	CNF	6	JG1006-3819
3.819	97.00	1.2mm	0.147	CUS	1.5mm	0.171	IPA	4.0mm	0.138	CUS	1	XH9700
3.819	97.00	1.2mm	0.147	CUS	1.5mm	0.171	IPA	2.0mm	0.128	CUF	1	XS9700
3.819	97.00	1.2mm	0.147	CUS	2 Ring			2.0mm	0.128	CUF	1	ZS9700
3.820	97.03	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.192	CUS	4	J100F4-3820-5
3.820	97.03	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.192	CUS	6	J100F6-3820-5
3.820	97.03	1/16"	0.179	DMB	1/16"	0.179	IPT	3/16"	0.182	CUF	8	S100S8-3820-5
3.823	97.10	1/16"	0.179	IMH	1/16"	0.179	IPT	5/32"	0.187	CUF	1	J190F1-3823
3.823	97.10	1/16"	0.179	IMH	1/16"	0.179	IPT	5/32"	0.187	CUF	1	J190F1-3823
3.830	97.28	1/16"	0.178	DMB	1/16"	0.178	IPT	3/16"	0.192	CUS	6	J100F6-3830-5
3.830	97.28	1.5mm	0.167	DMH	1.5mm	0.171	IPT	4.0mm	0.131	CUS	4	J616F4-3830
3.830	97.28	1/16"	0.179	DMB	1/16"	0.179	IPT	3/16"	0.187	CUF	8	S100S8-3830-5
3.833	97.36	1/16"	0.180	IMH	1/16"	0.180	IPT	5/32"	0.192	CUF	1	J190F1-3833
3.833	97.36	1/16"	0.180	IMH	1/16"	0.180	IPT	5/32"	0.192	CUF	1	J190F1-3833
3.833	97.36	1.2mm	0.147	CUS	1.5mm	0.171	IPA	4.0mm	0.159	CUS	1	XH9735
3.838	97.49	1.2mm	0.147	CUS	1.5mm	0.171	IPA	4.0mm	0.138	CUS	1	XH9750
3.843	97.61	1/16"	0.180	IMH	1/16"	0.180	IPT	5/32"	0.187	CUF	1	J190F1-3843
3.843	97.61	1/16"	0.180	IMH	1/16"	0.180	IPT	5/32"	0.187	CUF	1	J190F1-3843
3.843	97.61	1.2mm	0.147	CUS	1.5mm	0.171	IPA	4.0mm	0.159	CUS	1	XH9761
3.858	97.99	1.5mm	0.167	IPL	1.5mm	0.167	IPL	3.0mm	0.156	IPD	6	J612U6-3858
3.858	97.99	1.2mm	0.147	CUS	1.5mm	0.171	IPA	4.0mm	0.138	CUS	1	XH9800
3.858	97.99	1.2mm	0.147	CUS	1.5mm	0.171	IPA	2.0mm	0.128	CUF	1	XS9800
3.858	97.99	.95mm	0.127	CNN	2 Ring			2.0mm	0.106	CUF	1	ZV9800
3.875	98.43	1/16"	0.183	IMH	1/16"	0.183	IPT	3/16"	0.192	CUF	6	J150F6-3875-5
3.875	98.43	1.5mm	0.181	DMH	1.5mm	0.181	IPT	2.5mm	0.150	CUF	1	XK3875
3.880	98.55	1.5mm	0.181	DMH	1.5mm	0.181	IPT	2.5mm	0.150	CUF	1	XK3880
3.898	99.01	.95mm	0.127	CNN	1.5mm	0.165	IPT	2.0mm	0.106	CUF	1	JG5001-3898
3.898	99.01	.95mm	0.127	CNN	2 Ring			2.0mm	0.106	CUF	1	ZV9900
3.900	99.06	1.5mm	0.145	CMR	1.5mm	0.165	IPT	3.0mm	0.150	CUF	8	J68008-3900-3
3.905	99.19	1.5mm	0.142	CNR	1.5mm	0.158	IPQ	3.0mm	0.150	CUF	8	JG6008-3905
3.910	99.31	1.5mm	0.151	CMR	1.5mm	0.168	IPT	3.0mm	0.155	CUF	8	J68008-3910-3
3.917	99.49	1.2mm	0.147	CUS	1.5mm	0.166	IPT	2.8mm	0.140	CUF	4	JC14F4-3917
3.917	99.49	1.2mm	0.141	CUR	1.2mm	0.162	IFQ	2.5mm	0.115	CUS	4	JC3104-3917
3.917	99.50	1.0mm	0.150	CNS	1.2mm	0.165	DPE	2.8mm	0.128	CNF	6	JG1006-3917
3.928	99.77	1.2mm	0.146	CUS	1.2mm	0.171	IPT	2.5mm	0.115	CUS	4	JC4404-3928
3.928	99.77	1.2mm	0.146	CUS	1.2mm	0.171	IPT	2.5mm	0.115	CUS	6	JC4406-3928
3.937	100.00	1.5mm	0.165	IPA	1.75mm	0.165	IPE	3.0mm	0.150	IPD	6	J660U6-3937
3.937	100.00	1.0mm	0.150	CNS	1.2mm	0.165	DPE	2.8mm	0.128	CNF	6	JG1006-3937
3.937	100.00	.95mm	0.127	CNN	1.2mm	0.170	IPT	2.0mm	0.106	CUF	1	JG3701-3937
3.940	100.08	1/16"	0.179	DMB	1/16"	0.175	IPT	3/16"	0.195	CUF	8	J100F8-3935-5
3.937	100.00	1.2mm	0.155	CUS	1.5mm	0.175	IPA	4.0mm	0.160	CUS	1	XH10000
3.937	100.00	1.2mm	0.155	CUS	1.5mm	0.175	IPA	2.0mm	0.128	CUF	1	XS10000

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
3.937	100.00	.95mm	0.127	CNN	2 Ring			2.0mm	0.106	CUF	1	ZV10000
3.938	100.03	1.2mm	0.147	CUS	1.2mm	0.170	IPT	2.5mm	0.120	CUS	4	JC4404-3938
3.938	100.03	1.2mm	0.147	CUS	1.2mm	0.170	IPT	2.5mm	0.120	CUS	6	JC4406-3938
3.950	100.33	1/16"	0.179	DMB	1/16"	0.175	IPT	3/16"	0.195	CUF	8	J100F8-3945-5
3.957	100.50	1.0mm	0.150	CNS	1.2mm	0.165	DPE	2.8mm	0.128	CNF	4	JG1004-3957
3.957	100.50	1.0mm	0.150	CNS	1.2mm	0.165	DPE	2.8mm	0.128	CNF	6	JG1006-3956
3.976	100.99	1.0mm	0.150	CNS	1.2mm	0.163	DPE	2.8mm	0.128	CNF	6	JG1006-3976
3.976	100.99	1.2mm	0.155	CUS	1.5mm	0.175	IPA	4.0mm	0.160	CUS	1	XH10100
3.976	100.99	1.2mm	0.154	CUS	1.5mm	0.174	IPA	2.0mm	0.128	CUF	1	XS10100
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.172	DPE	3/16"	0.150	CUF	8	J10308-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.172	DPE	3/16"	0.190	CUS	8	J103F8-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPT	1/8"	0.184	CUS	8	J130F8-4000-5
4.000	101.60	.043"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J20008-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.150	CUF	8	J50008-4000-5
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.190	CUS	8	J500F8-4000-5
4.000	101.60	1.5mm	0.160	DMR	1.5mm	0.163	IPC	3.0mm	0.152	CUF	8	J60008-4000-5
4.000	101.60	1.5mm	0.160	DMR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	J60D08-4000-5
4.000	101.60	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4000-5
4.000	101.60	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4000-5
4.000	101.60	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4000-5
4.000	101.60	1.2mm	0.145	CMR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	J75108-4000-5
4.000	101.60	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J82008-4000-5
4.000	101.60	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J820F8-4000-5
4.000	101.60	1.2mm	0.145	CMR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92608-4000-5
4.000	101.60	1.2mm	0.152	SGR	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J95008-4000-3
4.000	101.60	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	6	JG3106-4000-7
4.000	101.60	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG3108-4000-7
4.000	101.60	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J10008-4000-5
4.000	101.60	1.2mm	0.150	CNR	1.5mm	0.163	IPC	3.0mm	0.152	CUF	6	JG3406-4000-7
4.000	101.60	1.2mm	0.150	CNR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	JG3408-4000-7
4.000	101.60	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4000-5
4.000	101.60	1/16"	0.190	DMB	1/16"	0.190	IPT	3/16"	0.192	CUF	8	S100S8-4000-5
4.010	101.85	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4010-0
4.010	101.85	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4010-0
4.010	101.85	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.155	CUF	8	J10008-4010-0
4.010	101.85	1.2mm	0.151	CNR	1.5mm	0.170	IPC	3.0mm	0.152	CUF	8	JG3108-4010-4
4.010	101.85	1.2mm	0.151	CNR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	JG3308-4010-4
4.016	102.01	1.5mm	0.165	IPA	1.75mm	0.165	IPE	3.0mm	0.150	IPD	6	J660U6-4016
4.016	102.01	1.2mm	0.154	CUS	2 Ring			2.0mm	0.128	CUF	1	JC3401-4016
4.016	102.01	1.0mm	0.150	CNS	1.2mm	0.177	DPE	2.8mm	0.128	CNF	4	JG1004-4016
4.016	102.01	1.2mm	0.155	CUS	1.5mm	0.175	IPA	4.0mm	0.160	CUS	1	XH10200
4.016	102.01	1.2mm	0.155	CUS	1.5mm	0.175	IPA	2.0mm	0.128	CUF	1	XS10200
4.020	102.11	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4020-5
4.020	102.11	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4020-5
4.020	102.11	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.150	CUF	8	J50008-4020-5
4.020	102.11	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.190	CUS	8	J500F8-4020-5
4.020	102.11	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4020-5
4.020	102.11	.043"	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J70008-4020-5
4.020	102.11	.043"	0.160	DMR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	J70T08-4020-5
4.020	102.11	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4020-5
4.020	102.11	1.2mm	0.146	CMR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	J92608-4020-5
4.020	102.11	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J10008-4020-5
4.020	102.11	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.192	CUF	8	S100S8-4020-5
4.020	102.11	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4020-5
4.020	102.11	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG3108-4020-2
4.020	102.11	.043"	0.171	CNR	.043"	0.172	DPE	3.0mm	0.152	CUF	8	JG7708-4020-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.150	CUF	8	J10308-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.190	CUS	8	J103F8-4030-5



JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	1/8"	0.192	CUF	8	J13008-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	1/8"	0.190	CUS	8	J130F8-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.146	CUF	8	J300F8-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.150	CUF	8	J50008-4030-5
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.190	CUS	8	J500F8-4030-5
4.030	102.36	1.5mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J60108-4030-5
4.030	102.36	1.5mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.146	CUF	8	J601F8-4030-5
4.030	102.36	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4030-5
4.030	102.36	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4030-5
4.030	102.36	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4030-5
4.030	102.36	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4030-5
4.030	102.36	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	8	J750F8-4030-5
4.030	102.36	1.2mm	0.145	CMR	1.5mm	0.163	IPC	3.0mm	0.152	CUF	8	J75108-4030-5
4.030	102.36	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J82008-4030-5
4.030	102.36	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J820F8-4030-5
4.030	102.36	.043"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J84008-4030-5
4.030	102.36	.043"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J840F8-4030-5
4.030	102.36	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J91108-4030-5
4.030	102.36	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.146	CUF	8	J911F8-4030-5
4.030	102.36	1.2mm	0.146	CMR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	J92608-4030-5
4.030	102.36	1.2mm	0.145	CMR	1.2mm	0.155	DPE	3.0mm	0.146	CUF	8	J926F8-4030-5
4.030	102.36	1.2mm	0.152	SGR	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J95008-4030-3
4.030	102.36	1.2mm	0.152	SGR	1/16"	0.187	IPT	3.0mm	0.146	CUF	8	J950F8-4030-3
4.030	102.36	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	6	JG31F6-4030-2
4.030	102.36	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	8	JG31F8-4030-2
4.030	102.36	1.2mm	0.150	CNR	1.5mm	0.155	IPE	3.0mm	0.152	CUF	8	JG3308-4030-2
4.030	102.36	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J10008-4030-5
4.030	102.36	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.192	CUF	8	S100S8-4030-5
4.030	102.36	.043"	0.171	CNR	1/16"	0.187	IPT	3.0mm	0.146	HCUF	8	JG76F8-4030-5
4.030	102.36	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4030-5
4.030	102.36	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.146	CUF	8	JG77F8-4030-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.150	CUF	8	J10308-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.190	CUS	8	J103F8-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.146	CUF	8	J300F8-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.150	CUF	8	J50008-4040-5
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.190	CUS	8	J500F8-4040-5
4.040	102.62	1.5mm	0.160	DMR	1.5mm	0.165	IPC	3.0mm	0.155	CUF	8	J600F8-4040-5
4.040	102.62	1.5mm	0.165	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J60108-4040-5
4.040	102.62	1.5mm	0.165	DMR	.043"	0.165	IPC	3.0mm	0.146	CUF	8	J601F8-4040-5
4.040	102.62	1.5mm	0.160	DMR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	J60D08-4040-5
4.040	102.62	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4040-5
4.040	102.62	1.5mm	0.160	DMR	1.5mm	0.163	IPC	3/16"	0.150	CUF	8	J69008-4040-5
4.040	102.62	1.5mm	0.160	DMR	1.5mm	0.163	IPC	3/16"	0.190	CUS	8	J690F8-4040-5
4.040	102.62	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4040-5
4.040	102.62	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4040-5
4.040	102.62	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4040-5
4.040	102.62	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	J750F8-4040-5
4.040	102.62	1.2mm	0.145	CMR	1.5mm	0.163	IPC	3.0mm	0.152	CUF	8	J75108-4040-5
4.040	102.62	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J82008-4040-5
4.040	102.62	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J820F8-4040-5
4.040	102.62	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J91108-4040-5
4.040	102.62	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.146	CUF	8	J911F8-4040-5
4.040	102.62	1.2mm	0.146	CMR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92608-4040-5
4.040	102.62	1.2mm	0.145	CMR	1.2mm	0.146	DPE	3.0mm	0.155	CUF	8	J926F8-4040-5
4.040	102.62	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	6	JG31F6-4040-2
4.040	102.62	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	8	JG31F8-4040-2
4.040	102.62	1.2mm	0.150	CNR	1.5mm	0.156	DPE	3.0mm	0.146	CUF	8	JG33F8-4040-2
4.040	102.62	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J10008-4040-5

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
4.040	102.62	1/16"	0.190	DMB	1/16"	0.191	IPT	3/16"	0.187	CUF	8	S100S8-4040-5
4.040	102.62	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4040-5
4.040	102.62	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.146	HCUF	8	JG77F8-4040-5
4.050	102.87	1.2mm	0.146	CMR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92608-4050-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J100F8-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.150	CUF	8	J10308-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.174	DPE	3/16"	0.190	CUS	8	J103F8-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.152	CUF	8	J30008-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPT	3.0mm	0.146	CUF	8	J300F8-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.150	CUF	8	J50008-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPG	3/16"	0.190	CUS	8	J500F8-4060-5
4.060	103.12	.043"	0.160	DMR	1.5mm	0.165	IPC	3.0mm	0.152	CUF	8	J70D08-4060-5
4.060	103.12	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4060-5
4.060	103.12	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4060-5
4.060	103.12	.043"	0.160	DMR	.043"	0.165	IPC	3/16"	0.190	CUS	8	J720F8-4060-5
4.060	103.12	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4060-5
4.060	103.12	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	8	J750F8-4060-5
4.060	103.12	.043"	0.160	DMR	1/16"	0.187	IPT	3/16"	0.152	CUF	8	J76008-4060-5
4.060	103.12	.043"	0.160	DMR	1/16"	0.187	IPT	3/16"	0.146	CUF	8	J760F8-4060-5
4.060	103.12	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J82008-4060-5
4.060	103.12	1/16"	0.187	HPB	1/16"	0.187	IPT	3/16"	0.190	CUS	8	J820F8-4060-5
4.060	103.12	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J91108-4060-5
4.060	103.12	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.146	CUF	8	J911F8-4060-5
4.060	103.12	1.2mm	0.146	CMR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	J92608-4060-5
4.060	103.12	1/16"	0.187	DMB	1/16"	0.187	IPT	3/16"	0.150	CUF	8	J10008-4060-5
4.060	103.12	1/16"	0.190	DMB	1/16"	0.191	IPT	3/16"	0.187	CUF	8	S100S8-4060-5
4.060	103.12	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG3108-4060-0
4.060	103.12	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.146	CUF	8	JG31F8-4060-0
4.060	103.12	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4060-5
4.060	103.12	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.146	HCUF	8	JG77F8-4060-5
4.070	103.38	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.190	CUS	8	J100F8-4070-5
4.070	103.38	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.155	CUF	8	J100L8-4070-5
4.070	103.38	1/16"	0.189	DMB	1/16"	0.189	IPT	3.0mm	0.152	CUF	8	J30008-4070-5
4.070	103.38	1.2mm	0.145	CMR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	J92608-4070-5
4.070	103.38	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG31F8-4070-0
4.075	103.51	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG3108-4075-5
4.075	103.51	1.2mm	0.150	CNR	1.5mm	0.175	IPE	3.0mm	0.152	CUF	8	JG31F8-4075-5
4.080	103.63	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.190	CUS	8	J100F8-4080-5
4.080	103.63	1/16"	0.189	DMB	1/16"	0.189	IPT	3.0mm	0.152	CUF	8	J30008-4080-5
4.080	103.63	1/16"	0.189	DMB	1/16"	0.189	IPG	3/16"	0.150	CUF	8	J50008-4080-5
4.080	103.63	1/16"	0.189	DMB	1/16"	0.189	IPG	3/16"	0.190	CUS	8	J500F8-4080-5
4.080	103.63	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4080-5
4.080	103.63	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4080-5
4.080	103.63	1.2mm	0.160	DMR	.043"	0.165	IPC	3.0mm	0.152	CUF	8	J91108-4080-5
4.080	103.63	1/16"	0.189	DMB	1/16"	0.189	IPT	3/16"	0.150	CUF	8	J10008-4080-5
4.095	104.01	1/16"	0.191	DMB	1/16"	0.191	IPT	3.0mm	0.152	CUF	8	J30008-4095-5
4.110	104.39	1/16"	0.196	DMB	1/16"	0.196	IPT	3/16"	0.200	CUF	8	S100S8-4110-5
4.120	104.65	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4120-5
4.120	104.65	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.150	CUF	8	J30008-4120-5
4.120	104.65	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4120-5
4.120	104.65	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4120-5
4.120	104.65	.043"	0.160	DMR	.043"	0.170	IPC	3.0mm	0.150	CUF	8	J70008-4120-5
4.120	104.65	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.150	CUF	8	J70D08-4120-5
4.120	104.65	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.150	CUF	8	J70T08-4120-5
4.120	104.65	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J70TF8-4120-5
4.120	104.65	1.2mm	0.154	CUS	1.5mm	0.167	IPC	3.0mm	0.150	CUF	8	J91208-4120-3
4.120	104.65	1.2mm	0.154	CUS	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J912F8-4120-3
4.120	104.65	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4120-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IMT	3/16"	0.150	CUF	8	J10208-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.176	DPE	3/16"	0.150	CUF	8	J10308-4125-5



JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
4.125	104.78	1/16"	0.192	DMB	1/16"	0.176	DPE	3/16"	0.190	CUS	8	J103F8-4125-5
4.125	104.78	.043"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J20008-4125-5
4.125	104.78	.043"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J200F8-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.150	CUF	8	J30008-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.155	CUF	8	J300F8-4125-5
4.125	104.78	.043"	0.193	DMB	1/16"	0.193	IPT	3.0mm	0.152	CUF	8	J40008-4125-5
4.125	104.78	.043"	0.193	DMB	1/16"	0.193	IPT	3.0mm	0.155	CUF	8	J400F8-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4125-5
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4125-5
4.125	104.78	1.5mm	0.160	DMR	1.5mm	0.170	IPC	3.0mm	0.152	CUF	8	J60D08-4125-5
4.125	104.78	1.5mm	0.160	DMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J61908-4125-5
4.125	104.78	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3/16"	0.150	CUF	8	J69008-4125-5
4.125	104.78	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3/16"	0.190	CUS	8	J690F8-4125-5
4.125	104.78	.043"	0.160	DMR	1.5mm	0.170	IPC	3.0mm	0.150	CUF	8	J70D08-4125-5
4.125	104.78	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.150	CUF	8	J70T08-4125-5
4.125	104.78	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4125-5
4.125	104.78	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4125-5
4.125	104.78	.043"	0.160	DMR	.043"	0.170	IPC	3/16"	0.150	CUF	8	J72008-4125-5
4.125	104.78	.043"	0.160	DMR	.043"	0.170	IPC	3/16"	0.190	CUS	8	J720F8-4125-5
4.125	104.78	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.150	CUF	8	J75008-4125-5
4.125	104.78	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	J750F8-4125-5
4.125	104.78	1.2mm	0.145	CMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J75108-4125-5
4.125	104.78	1.2mm	0.145	CMR	1.5mm	0.170	IPC	3.0mm	0.155	CUF	8	J751F8-4125-5
4.125	104.78	.043"	0.160	DMR	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J76008-4125-5
4.125	104.78	.043"	0.160	DMR	1/16"	0.193	IPT	3/16"	0.155	CUF	8	J760F8-4125-5
4.125	104.78	1/16"	0.192	HPB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J82008-4125-5
4.125	104.78	1/16"	0.192	HPB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J820F8-4125-5
4.125	104.78	1.2mm	0.150	CNR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92308-4125-2
4.125	104.78	1.2mm	0.150	CNR	1.5mm	0.167	IPC	3.0mm	0.150	CUF	8	J925F8-4125-3
4.125	104.78	1.2mm	0.146	CMR	1.2mm	0.156	DPE	3.0mm	0.150	CUF	8	J92608-4125-5
4.125	104.78	1.2mm	0.145	CMR	1.2mm	0.156	DPE	3.0mm	0.155	CUF	8	J926F8-4125-5
4.125	104.78	1.2mm	0.145	CMR	.043"	0.170	IPC	3.0mm	0.155	CUF	8	J941F8-4125-5
4.125	104.78	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	JG31F8-4125-2
4.125	104.78	1.2mm	0.150	CNR	1.5mm	0.156	IPE	3.0mm	0.152	CUF	8	JG3308-4125-2
4.125	104.78	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4125-5
4.125	104.78	1/16"	0.193	DMB	1/16"	0.194	IPT	3/16"	0.187	CUF	8	S100S8-4125-5
4.125	104.78	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.150	CUF	8	JG7708-4125-5
4.125	104.78	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.155	CUF	8	JG77F8-4125-5
4.130	104.90	1/16"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4130-5
4.130	104.90	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.152	CUF	8	J30008-4130-5
4.130	104.90	1/16"	0.193	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4130-5
4.130	104.90	1/16"	0.193	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4130-5
4.130	104.90	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3/16"	0.150	CUF	8	J69008-4130-0
4.130	104.90	.043"	0.160	DMR	.043"	0.170	IPC	3.0mm	0.152	CUF	8	J70008-4130-5
4.130	104.90	.043"	0.160	DMR	1.5mm	0.170	IPC	3.0mm	0.152	CUF	8	J70D08-4130-5
4.130	104.90	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.152	CUS	8	J70T08-4130-5
4.130	104.90	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4130-5
4.130	104.90	.043"	0.160	DMR	.043"	0.170	IPC	3/16"	0.150	CUF	8	J72008-4130-5
4.130	104.90	.043"	0.160	DMR	.043"	0.170	IPC	3/16"	0.190	CUS	8	J720F8-4130-5
4.130	104.90	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4130-5
4.130	104.90	.043"	0.160	DMR	1/16"	0.193	IPT	3/16"	0.152	CUF	8	J76008-4130-5
4.130	104.90	1/16"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4130-5
4.130	104.90	.043"	0.171	CNR	.043"	0.177	DPE	3.0mm	0.152	CUF	8	JG7708-4130-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4135-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPT	1/8"	0.185	CUF	8	J13008-4135-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPT	3.0mm	0.152	CUF	8	J30008-4135-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPT	3.0mm	0.154	CUF	8	J300F8-4135-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4135-5
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4135-5
4.135	105.03	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J70T08-4135-5
4.135	105.03	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.154	CUF	8	J70TF8-4135-5

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
4.135	105.03	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4135-5
4.135	105.03	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.154	CUF	8	J750F8-4135-5
4.135	105.03	.043"	0.160	DMR	1/16"	0.193	IPT	3/16"	0.152	CUF	8	J76008-4135-5
4.135	105.03	1.2mm	0.154	CUS	1.5mm	0.167	IPC	3.0mm	0.154	CUF	8	J912F8-4135-3
4.135	105.03	1.2mm	0.150	CNR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92308-4135-2
4.135	105.03	1.2mm	0.150	CNR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J92508-4135-2
4.135	105.03	1.2mm	0.145	CMR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92608-4135-5
4.135	105.03	1.2mm	0.145	CMR	1.5mm	0.167	IPC	3/16"	0.150	CUF	8	J96108-4135-5
4.135	105.03	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.154	CUF	8	JG31F8-4135-2
4.135	105.03	1/16"	0.193	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4135-5
4.135	105.03	1.5mm	0.142	CNR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	JG6008-4135-5
4.135	105.03	1.5mm	0.142	CNR	1.5mm	0.170	IPE	3.0mm	0.154	CUF	8	JG60F8-4135-5
4.135	105.03	.043"	0.171	CNR	.043"	0.177	DPE	3.0mm	0.152	CUF	8	JG7708-4135-5
4.135	105.03	.043"	0.171	CNR	.043"	0.177	DPE	3.0mm	0.154	CUF	8	JG77F8-4135-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4145-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.152	CUF	8	J30008-4145-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.155	CUF	8	J300F8-4145-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4145-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4145-5
4.145	105.28	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J70T08-4145-5
4.145	105.28	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J70TF8-4145-5
4.145	105.28	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4145-5
4.145	105.28	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4145-5
4.145	105.28	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4145-5
4.145	105.28	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	J750F8-4145-5
4.145	105.28	1.2mm	0.145	CMR	1.5mm	0.170	IPC	3.0mm	0.152	CUF	8	J75108-4145-5
4.145	105.28	1.2mm	0.145	CMR	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J751F8-4145-5
4.145	105.28	1.2mm	0.162	CUS	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J91208-4145-3
4.145	105.28	1.2mm	0.162	CUS	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J912F8-4145-3
4.145	105.28	1.2mm	0.145	CMR	1.2mm	0.155	DPE	3.0mm	0.152	CUF	8	J92608-4145-5
4.145	105.28	1.2mm	0.145	CMR	1.2mm	0.155	DPE	3.0mm	0.155	CUF	8	J926F8-4145-5
4.145	105.28	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4145-5
4.145	105.28	1/16"	0.195	DMB	1/16"	0.195	IPT	3/16"	0.187	CUF	8	S100S8-4145-5
4.145	105.28	.043"	0.171	CNR	.043"	0.177	DPE	3.0mm	0.152	CUF	8	JG7708-4145-5
4.145	105.28	.043"	0.171	CNR	.043"	0.177	DPE	3.0mm	0.150	CUF	8	JG77F8-4145-5
4.150	105.41	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J70T08-4150-5
4.150	105.41	.043"	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J70TF8-4150-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J100F8-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.178	DPE	3/16"	0.150	CUF	8	J10308-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.178	DPE	3/16"	0.190	CUS	8	J103F8-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.152	CUF	8	J30008-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPT	3.0mm	0.155	CUF	8	J300F8-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.150	CUF	8	J50008-4155-5
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPG	3/16"	0.190	CUS	8	J500F8-4155-5
4.155	105.54	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J60008-4155-0
4.155	105.54	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J600F8-4155-0
4.155	105.54	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3/16"	0.150	CUF	8	J69008-4155-0
4.155	105.54	1.5mm	0.160	DMR	1.5mm	0.167	IPC	3/16"	0.190	CUS	8	J690F8-4155-0
4.155	105.54	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4155-5
4.155	105.54	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J714F8-4155-5
4.155	105.54	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4155-5
4.155	105.54	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	J750F8-4155-5
4.155	105.54	1.2mm	0.145	CMR	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J75108-4155-5
4.155	105.54	1/16"	0.192	HPB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J82008-4155-5
4.155	105.54	1/16"	0.192	HPB	1/16"	0.193	IPT	3/16"	0.190	CUS	8	J820F8-4155-5
4.155	105.54	1.2mm	0.162	CUS	1.5mm	0.167	IPC	3.0mm	0.152	CUF	8	J91208-4155-3
4.155	105.54	1.2mm	0.162	CUS	1.5mm	0.167	IPC	3.0mm	0.155	CUF	8	J912F8-4155-3
4.155	105.54	1.2mm	0.145	CMR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	J92608-4155-5
4.155	105.54	1.2mm	0.145	CMR	1.2mm	0.156	DPE	3.0mm	0.155	CUF	8	J926F8-4155-5
4.155	105.54	1.2mm	0.145	CMR	1.5mm	0.167	IPC	3/16"	0.190	CUF	8	J961F8-4155-5
4.155	105.54	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	JG31F8-4155-3



JE PRO SEAL DIAMETRIC RING CHART

Bore	Bore in mm	TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
		Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
4.155	105.54	1/16"	0.192	DMB	1/16"	0.193	IPT	3/16"	0.150	CUF	8	J10008-4155-5
4.155	105.54	1/16"	0.195	DMB	1/16"	0.195	IPT	3/16"	0.187	CUF	8	S100S8-4155-5
4.155	105.54	1.2mm	0.150	CNR	1.2mm	0.156	DPE	3.0mm	0.152	CUF	8	JG3308-4155-3
4.155	105.54	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4155-5
4.155	105.54	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.155	CUF	8	JG77F8-4155-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J100F8-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.178	DPE	3/16"	0.150	CUF	8	J10308-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.178	DPE	3/16"	0.190	CUS	8	J103F8-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPT	3.0mm	0.152	CUF	8	J30008-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPT	3.0mm	0.155	CUF	8	J300F8-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPG	3/16"	0.150	CUF	8	J50008-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPG	3/16"	0.190	CUS	8	J500F8-4165-5
4.165	105.79	.043"	0.161	CMK	.043"	0.170	DPE	3.0mm	0.152	CUF	8	J71408-4165-5
4.165	105.79	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.152	CUF	8	J75008-4165-5
4.165	105.79	1.2mm	0.145	CMR	1.5mm	0.170	IPE	3.0mm	0.155	CUF	8	J750F8-4165-5
4.165	105.79	1/16"	0.192	HPB	1/16"	0.194	IPT	3/16"	0.150	CUF	8	J82008-4165-5
4.165	105.79	1/16"	0.192	HPB	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J820F8-4165-5
4.165	105.79	1.2mm	0.145	CMR	.043"	0.170	IPC	3.0mm	0.152	CUF	8	J94108-4165-5
4.165	105.79	1/16"	0.194	DMB	1/16"	0.194	IPT	3/16"	0.150	CUF	8	J10008-4165-5
4.165	105.79	1/16"	0.195	DMB	1/16"	0.195	IPT	3/16"	0.192	CUF	8	S100S8-4165-5
4.165	105.79	.043"	0.171	CNR	.043"	0.140	IPE	3.0mm	0.152	ECUF	8	JG7018-4165-5
4.165	105.79	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4165-5
4.165	105.79	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.151	CUF	8	JG77F8-4165-5
4.185	106.30	1/16"	0.192	DMB	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J100F8-4185-5
4.185	106.30	1/16"	0.192	DMB	1/16"	0.178	DPE	3/16"	0.190	CUS	8	J103F8-4185-5
4.185	106.30	1/16"	0.192	DMB	1/16"	0.194	IPT	3.0mm	0.152	CUF	8	J30008-4185-5
4.185	106.30	1/16"	0.192	HPB	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J820F8-4185-5
4.185	106.30	.043"	0.192	HPB	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J840F8-4185-5
4.185	106.30	D017	0.173	DMD	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J880F8-4185-5
4.185	106.30	D017	0.173	DMD	1/16"	0.194	IPT	3/16"	0.197	CUF	8	J880H8-4185-5
4.185	106.30	D017	0.173	DMD	1/16"	0.194	IPT	3/16"	0.190	CUS	8	J890F8-4185-5
4.185	106.30	D017	0.173	DMD	1/16"	0.194	IPT	3/16"	0.197	CUF	8	J890H8-4185-5
4.185	106.30	1.2mm	0.150	CNR	1.5mm	0.170	IPE	3.0mm	0.152	ECUF	8	JG3108-4185-3
4.185	106.30	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4185-5
4.190	106.43	.043"	0.163	DMR	.043"	0.163	IPC	3.0mm	0.152	CUF	8	J70008-4190-5
4.195	106.55	1/16"	0.197	DMB	1/16"	0.196	IPT	3/16"	0.197	CUF	8	S100S8-4195-5
4.210	106.93	1/16"	0.194	DMB	1/16"	0.194	IPT	3/16"	0.190	CUF	8	J100F8-4210-5
4.210	106.93	1/16"	0.199	DMB	1/16"	0.199	IPT	3/16"	0.192	CUF	8	S100S8-4210-5
4.250	107.95	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J100F8-4250-5
4.250	107.95	D017	0.173	DMD	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J880F8-4250-5
4.250	107.95	D017	0.173	DMD	1/16"	0.198	IPT	3/16"	0.201	CUF	8	J880H8-4250-5
4.250	107.95	D017	0.173	DMD	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J890F8-4250-5
4.250	107.95	D017	0.173	DMD	1/16"	0.198	IPT	3/16"	0.201	CUF	8	J890H8-4250-5
4.250	107.95	5/64"	0.198	DMB	5/64"	0.198	IPT	3/16"	0.190	CUS	8	JP00F8-4250-5
4.250	107.95	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J10008-4250-5
4.250	107.95	.043"	0.171	CNR	1/16"	0.215	IPT	3/16"	0.197	CUF	8	JG86L8-4625-5
4.265	108.33	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.182	CUF	8	S100S8-4265-5
4.270	108.46	5/64"	0.198	IEB	5/64"	0.198	IPT	3/16"	0.190	CUF	8	JE00F8-4270-0
4.275	108.59	1/16"	0.202	DMB	1/16"	0.202	IPT	3/16"	0.192	CUF	8	S100S8-4275-5
4.280	108.71	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J100F8-4280-5
4.280	108.71	1/16"	0.198	HPB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J82008-4280-5
4.280	108.71	1/16"	0.198	HPB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J820F8-4280-5
4.280	108.71	5/64"	0.198	IEB	5/64"	0.198	IPT	3/16"	0.190	CUF	8	JE00F8-4280-0
4.280	108.71	5/64"	0.198	DMB	5/64"	0.198	IPT	3/16"	0.150	CUF	8	JP0008-4280-5
4.280	108.71	5/64"	0.198	DMB	5/64"	0.198	IPT	3/16"	0.190	CUS	8	JP00F8-4280-5
4.280	108.71	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J10008-4280-5
4.280	108.71	1/16"	0.200	DMB	1/16"	0.200	IPT	3/16"	0.200	CUS	8	S100S8-4280-5
4.285	108.84	1/16"	0.202	DMB	1/16"	0.202	IPT	3/16"	0.197	CUF	8	S100S8-4285-5
4.290	108.97	1/16"	0.202	DMB	1/16"	0.202	IPT	3/16"	0.197	CUF	8	S100S8-4290-5
4.310	109.47	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J100F8-4310-5
4.310	109.47	.043"	0.200	DMB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J20008-4310-5

JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING				
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	# in Set	Ring Set Part #
4.310	109.47	.043"	0.200	DMB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J200F8-4310-5
4.310	109.47	1/16"	0.198	HPB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J82008-4310-5
4.310	109.47	1/16"	0.198	HPB	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J820F8-4310-5
4.310	109.47	D017	0.173	DMD	1/16"	0.198	IPT	3/16"	0.190	CUS	8	J890F8-4310-5
4.310	109.47	5/64"	0.198	IEB	5/64"	0.198	IPT	3/16"	0.150	CUF	8	JE0008-4310-0
4.310	109.47	5/64"	0.198	IEB	5/64"	0.198	IPT	3/16"	0.190	CUF	8	JE00F8-4310-0
4.310	109.47	1/16"	0.198	DMB	1/16"	0.198	IPT	3/16"	0.150	CUF	8	J10008-4310-5
4.310	109.47	1/16"	0.202	DMB	1/16"	0.202	IPT	3/16"	0.205	CUF	8	S100S8-4310-5
4.320	109.73	1/16"	0.201	DMB	1/16"	0.201	IPT	3/16"	0.190	CUS	8	J100F8-4320-5
4.320	109.73	5/64"	0.201	IEB	5/64"	0.198	IPT	3/16"	0.190	CUF	8	JE00F8-4320-0
4.320	109.73	1/16"	0.201	DMB	1/16"	0.201	IPT	3/16"	0.150	CUF	8	J10008-4320-5
4.320	109.73	1/16"	0.205	DMB	1/16"	0.205	IPT	3/16"	0.187	CUF	8	S100S8-4320-5
4.350	110.49	1/16"	0.201	DMB	1/16"	0.201	IPT	3/16"	0.190	CUS	8	J100F8-4350-5
4.350	110.49	1/16"	0.201	DMB	1/16"	0.201	IPT	3/16"	0.150	CUF	8	J10008-4350-5
4.350	110.49	1/16"	0.205	DMB	1/16"	0.205	IPT	3/16"	0.192	CUF	8	S100S8-4350-5
4.360	110.74	1/16"	0.203	DMB	1/16"	0.203	IPT	3/16"	0.190	CUS	8	J100F8-4360-5
4.360	110.74	1/16"	0.203	DMB	1/16"	0.203	IPT	3/16"	0.150	CUF	8	J10008-4360-5
4.360	110.74	1/16"	0.206	DMB	1/16"	0.206	IPT	3/16"	0.192	CUF	8	S100S8-4360-5
4.375	111.13	1/16"	0.204	DMB	1/16"	0.204	IPT	3/16"	0.190	CUS	8	J100F8-4375-5
4.375	111.13	.043"	0.198	DMB	1/16"	0.204	IPT	3/16"	0.150	CUF	8	J20008-4375-5
4.375	111.13	.043"	0.198	DMB	1/16"	0.204	IPT	3/16"	0.190	CUS	8	J200F8-4375-5
4.375	111.13	D017	0.173	DMD	1/16"	0.204	IPT	3/16"	0.190	CUS	8	J880F8-4375-5
4.375	111.13	D017	0.173	DMD	1/16"	0.204	IPT	3/16"	0.197	CUF	8	J880H8-4375-5
4.375	111.13	D017	0.173	DMD	1/16"	0.204	IPT	3/16"	0.190	CUS	8	J890F8-4375-5
4.375	111.13	D017	0.173	DMD	1/16"	0.204	IPT	3/16"	0.197	CUF	8	J890H8-4375-5
4.375	111.13	1/16"	0.204	DMB	1/16"	0.204	IPT	3/16"	0.150	CUF	8	J10008-4375-5
4.375	111.13	1/16"	0.206	DMB	1/16"	0.207	IPT	3/16"	0.200	CUF	8	S100S8-4375-5
4.390	111.51	1/16"	0.203	DMB	1/16"	0.203	IPT	3/16"	0.190	CUS	8	J100F8-4390-5
4.390	111.51	1/16"	0.203	DMB	1/16"	0.203	IPT	3/16"	0.150	CUF	8	J10008-4390-5
4.390	111.51	1/16"	0.205	DMB	1/16"	0.206	IPT	3/16"	0.197	CUF	8	S100S8-4390-5
4.440	112.78	1/16"	0.207	DMB	1/16"	0.207	IPT	3/16"	0.190	CUS	8	J100F8-4440-5
4.440	112.78	.043"	0.207	DMB	1/16"	0.207	IPT	3/16"	0.155	CUF	8	J20008-4440-5
4.440	112.78	.043"	0.207	DMB	1/16"	0.207	IPT	3/16"	0.190	CUS	8	J200F8-4440-5
4.440	112.78	1/16"	0.207	DMB	1/16"	0.207	IPT	3/16"	0.155	CUF	8	J10008-4440-5
4.468	113.49	2.0mm	0.200	DMK	1.5mm	0.200	IPT	4.0mm	0.130	CUF	8	J83008-4468
4.468	113.49	2.0mm	0.200	DMK	5/64"	0.200	IPT	3/16"	0.150	CUF	8	J85008-4468
4.470	113.54	1/16"	0.207	DMB	1/16"	0.208	IPT	3/16"	0.205	CUF	8	J100S8-4470-5
4.470	113.54	1/16"	0.208	DMB	1/16"	0.208	IPT	3/16"	0.205	CUF	8	S100S8-4470-5
4.500	114.30	1/16"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J100F8-4500-5
4.500	114.30	.043"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.155	CUF	8	J20008-4500-5
4.500	114.30	.043"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J200F8-4500-5
4.500	114.30	1/16"	0.210	DMB	1/16"	0.210	IPT	3.0mm	0.152	CUF	8	J30008-4500-5
4.500	114.30	1/16"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.155	CUF	8	J82008-4500-5
4.500	114.30	1/16"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J820F8-4500-5
4.500	114.30	.043"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.155	CUF	8	J84008-4500-5
4.500	114.30	.043"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J840F8-4500-5
4.500	114.30	D017	0.173	DMD	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J890F8-4500-5
4.500	114.30	1/16"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.155	CUF	8	J10008-4500-5
4.500	114.30	1/16"	0.206	DMB	1/16"	0.206	IPT	3/16"	0.200	CUF	8	S100S8-4500-5
4.500	114.30	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4500-5
4.500	114.30	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.155	CUF	8	JG8608-4500-5
4.500	114.30	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.190	CUS	8	JG86F8-4500-5
4.530	115.06	1/16"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.182	CUF	8	J100F8-4530-5
4.530	115.06	.043"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.150	CUF	8	J20008-4530-5
4.530	115.06	.043"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.182	CUS	8	J200F8-4530-5
4.530	115.06	1/16"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.150	CUF	8	J82008-4530-5
4.530	115.06	1/16"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.182	CUF	8	J820F8-4530-5
4.530	115.06	D017	0.173	DMD	1/16"	0.210	IPT	3/16"	0.182	CUS	8	J890F8-4530-5
4.530	115.06	1/16"	0.210	DMB	1/16"	0.210	IPT	3/16"	0.150	CUF	8	J10008-4530-5
4.530	115.06	1/16"	0.206	DMB	1/16"	0.206	IPT	3/16"	0.182	CUF	8	S100S8-4530-5
4.530	115.06	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.150	CUF	8	JG7708-4530-5

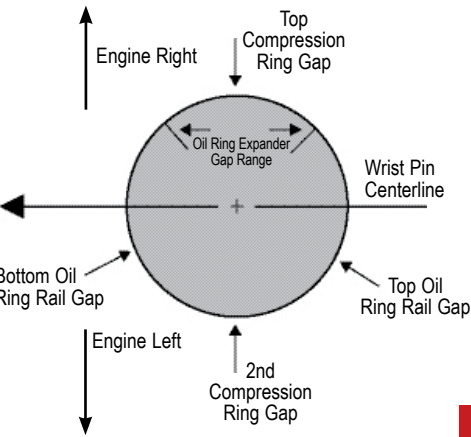
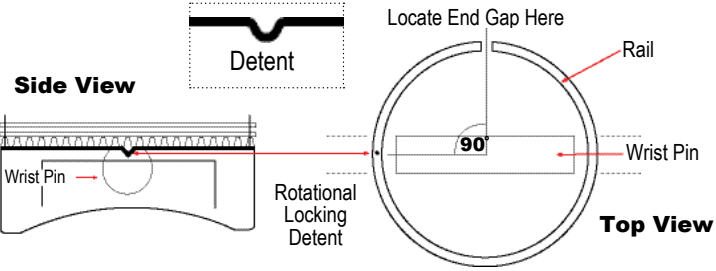


JE PRO SEAL DIAMETRIC RING CHART

		TOP RING			SECOND RING			OIL RING			# in Set	Ring Set Part #
Bore	Bore in mm	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type	Axial Height	Radial Width	Type		
4.530	115.06	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.150	CUF	8	JG8608-4530-5
4.530	115.06	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.182	CUF	8	JG86F8-4530-5
4.560	115.82	1/16"	0.212	DMB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J100H8-4560-5
4.560	115.82	1/16"	0.212	DMB	1/16"	0.210	IPT	3/16"	0.201	CUF	8	J100S8-4560-5
4.560	115.82	.043"	0.212	DMB	1/16"	0.210	IPT	3/16"	0.150	CUF	8	J20008-4560-5
4.560	115.82	1/16"	0.210	HPB	1/16"	0.210	IPT	3/16"	0.190	CUS	8	J820H8-4560-5
4.560	115.82	1/16"	0.212	DMB	1/16"	0.210	IPT	3/16"	0.150	CUF	8	J10008-4560-5
4.560	115.82	1/16"	0.212	DMB	1/16"	0.206	IPT	3/16"	0.200	CUF	8	S100S8-4560-5
4.560	115.82	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.150	CUF	8	JG7708-4560-5
4.560	115.82	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.150	CUF	8	JG8608-4560-5
4.560	115.82	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.197	LCUF	8	JG86F8-4560-5
4.560	115.82	.043"	0.171	CNR	1/16"	0.210	IPT	3/16"	0.190	CUS	8	JG86H8-4560-5
4.580	116.33	1/16"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.190	CUS	8	J100F8-4580-5
4.580	116.33	.043"	0.171	CNR	1/16"	0.216	IPT	3/16"	0.190	CUS	8	JG86F8-4580-5
4.600	116.84	1/16"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.190	CUS	8	J100L8-4600-5
4.600	116.84	1/16"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.201	CUF	8	J100S8-4600-5
4.600	116.84	1/16"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.150	CUF	8	J100U8-4600-5
4.600	116.84	.043"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.150	CUF	8	J200U8-4600-5
4.600	116.84	1/16"	0.212	DMB	1/16"	0.218	IPT	3.0mm	0.149	CUF	8	J300F8-4600-5
4.600	116.84	.043"	0.212	DMB	1/16"	0.212	IPT	3.0mm	0.149	CUF	8	J400F8-4600-5
4.600	116.84	1/16"	0.210	HPB	1/16"	0.212	IPT	3/16"	0.190	CUF	8	J82008-4600-5
4.600	116.84	1/16"	0.210	HPB	1/16"	0.212	IPT	3/16"	0.201	CUF	8	J820S8-4600-5
4.600	116.84	1/16"	0.197	DMB	1/16"	0.206	IPT	3/16"	0.187	CUF	8	S100S8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.190	CUS	8	JG71L8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.150	CUF	8	JG71U8-4600-5
4.600	116.84	.043"	0.171	CNR	.043"	0.170	DPE	3/16"	0.190	CUS	8	JG7308-4600-5
4.600	116.84	.043"	0.171	CNR	.043"	0.170	DPE	3/16"	0.150	CUF	8	JG73U8-4600-5
4.600	116.84	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.150	CUF	8	JG7708-4600-5
4.600	116.84	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.150	CUF	8	JG77F8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.150	CUF	8	JG8608-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.197	LCUF	8	JG86F8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.190	CUS	8	JG86L8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.205	CUF	8	JG86S8-4600-5
4.600	116.84	.043"	0.171	CNR	1/16"	0.218	IPT	3/16"	0.150	CUF	8	JG86U8-4600-5
4.610	117.09	1/16"	0.212	DMB	1/16"	0.212	IPT	3/16"	0.190	CUS	8	J100H8-4610-5
4.610	117.09	.043"	0.171	CNR	.043"	0.210	DPE	3/16"	0.197	CUF	8	JG7308-4610-5
4.610	117.09	.043"	0.171	CNR	.043"	0.210	IPT	3.0mm	0.153	CUF	8	JG7708-4610-5
4.610	117.09	.043"	0.171	CNR	.043"	0.210	IPT	3/16"	0.197	CUF	8	JG8108-4610-5
4.610	117.09	.043"	0.171	CNR	1/16"	0.195	DPE	3/16"	0.190	CUS	8	JG86H8-4610-5
4.610	117.09	.043"	0.171	CNR	1/16"	0.195	DPE	3/16"	0.197	CUF	8	JG86L8-4610-5
4.625	117.48	1/16"	0.215	DMB	1/16"	0.215	IPT	3/16"	0.190	CUS	8	J100F8-4625-5
4.625	117.48	1/16"	0.215	DMB	1/16"	0.215	IPT	3/16"	0.210	CUF	8	J10008-4625-5
4.625	117.48	.043"	0.171	CNR	.043"	0.170	DPE	3/16"	0.197	CUF	8	JG7308-4625-5
4.625	117.48	.043"	0.171	CNR	.043"	0.170	DPE	3/16"	0.190	CUS	8	JG73F8-4625-5
4.625	117.48	.043"	0.171	CNR	.043"	0.170	DPE	3.0mm	0.152	CUF	8	JG7708-4625-5
4.625	117.48	.043"	0.171	CNR	1/16"	0.215	IPT	3/16"	0.190	CUS	8	JG86F8-4625-5

RAIL SUPPORTS AND RING PLACEMENT

JE Rail Supports feature a special locking detent to prevent rotation of the oil rail and keep the rail support gap 90° from the pin bore opening on the piston. This JE exclusive feature prevents the rail from rotating in the oil ring groove. Oil rail supports prevent the oil ring rails from spiraling off of pistons with short compression distances.

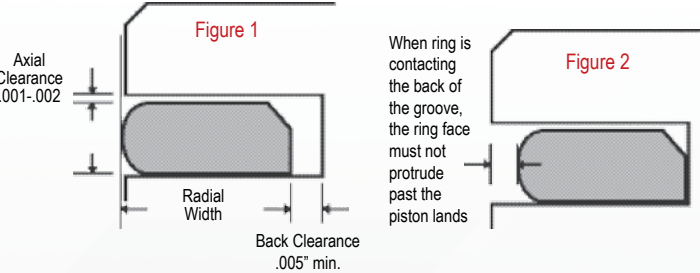


BORE RANGE	GRAMS	PART NO	BORE RANGE	GRAMS	PART NO	BORE RANGE	GRAMS	PART NO
2.999-3.039	4	3000-122	3.655-3.699	6	3655-162	4.215-4.247	8	4215-183
3.040-3.069	4	3040-122	3.700-3.747	6	3700-162	4.248-4.279	9	4250-193
3.070-3.114	4	3070-122	3.748-3.774	7	3750-162	4.280-4.309	9	4280-193
3.115-3.169	4	3115-122	3.775-3.809	7	3775-162	4.310-4.349	9	4310-193
3.170-3.229	4	3170-132	3.810-3.839	7	3812-173	4.350-4.374	9	4350-193
3.230-3.285	4	3230-122	3.840-3.874	7	3840-173	4.375-4.404	9	4375-193
3.266-3.307	4	3267-122	3.875-3.904	7	3875-173	4.405-4.437	9	4405-193
3.286-3.344	4	3285-122	3.905-3.934	7	3905-173	4.438-4.469	9	4440-203
3.345-3.384	4	3346-122	3.935-3.959	7	3935-173	4.470-4.499	9	4470-203
3.385-3.423	4	3385-122	3.960-3.998	7	3960-173	4.500-4.529	10	4500-203
3.424-3.464	4	3425-122	3.999-4.029	8	4000-183	4.530-4.559	10	4530-203
3.465-3.509	5	3465-142	4.030-4.059	8	4030-183	4.560-4.599	10	4562-203
3.498-3.559	5	3500-142	4.060-4.079	8	4060-183	4.600-4.635	10	4600-203
3.510-3.559	5	3510-142	4.080-4.119	8	4080-183	4.636-4.674	10	4636-203
3.560-3.604	6	3560-142	4.120-4.154	8	4125-183	4.675-4.700	10	4675-203
3.560-3.622	6	3562-162	4.155-4.184	8	4155-183			
3.605-3.654	6	3605-162	4.185-4.214	8	4185-183			

RING INSTALLATION GUIDELINES

IMPORTANT: BEFORE FILING RINGS – Check each individual ring in its corresponding piston ring groove to ensure proper ring groove depth (radial back clearance) and axial clearance (height) (fig.1 & 2). Proper cylinder finish (honing), ring end-gap, and lubrication are critical to achieving optimum ring seal.

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"



END GAP

End gap is the clearance between the two ends of a piston ring as it is installed in a cylinder. Most high performance and racing engine builders purchase piston rings slightly oversized in order to file fit them to very precise end gaps. Testing has shown measurable increases in horsepower and decreases in blow-by as a result of properly fitting the ring end gap to the operating conditions. Factors such as supercharging,

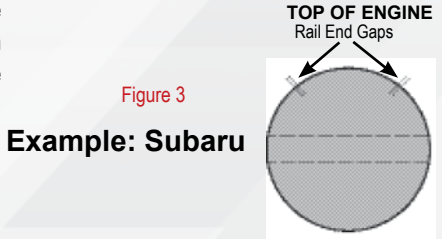
turbocharging, nitrous oxide, endurance racing and different fuels determine proper ring end gap. Proper ring end gap can be more than double from one engine to the next depending upon the above factors.

At operating temperature, the top ring end gap should be as small as possible, but never touch. Precise machining of the cylinder bores is critical, and is the reason why rings should be fitted to the cylinder in which they are to be installed. A diameter variance

from one cylinder to the next changes the end gap of the rings in that cylinder by a factor of pi (3.1416). For example, a cylinder .001" larger in diameter will increase the ring end gap by .001 x 3.1416 = .003", rounding off, which could increase cylinder leakage in that cylinder and decrease performance.

RING SETS CONTAINING OIL RAILS WITH A TAB

When installed in a horizontally opposed engine, rail gaps should be installed as shown (fig. 3). The tab rail must be installed below oil ring expander with the tab facing toward the bottom of the ring groove extending into the split oil drain back holes.



Example: Subaru

 LOCKS

Most JE shelf pistons include double spiro locks as standard equipment. These locks are installed by spreading the lock between 1/8" and 1/4" and rotating the lock into the groove in the piston pin boss. Wire locks are installed in much the same manner but require chamfered wrist pins. Wire locks tend to spread side loads over more of the piston pin boss area and are considered to be a stronger method of holding the pin in place. Hook wire locks have a built in hook at the end gap. The purpose for this style of wire lock is to prevent rotation within the lock groove itself. Tru arc locks fall between these two and can be used with the stock sharp edge wrist pins. The advantage of tru-arc locks is ease of installation and they can be re-used unlike spiro locks, however they are not recommended for medium to high horsepower applications.

Spiro Locks • Spiro Locks • Tru Arc Locks • Wire Locks • Hook Locks



Alloy Steel



Carbon Steel



Carbon Steel



Chrome Silicon



Chrome Silicon

LOCK LETTER CODES

CS = Carbon Steel, Spiro Lock
AS = Alloy Steel, Spiro Lock

CT = Carbon Steel, Tru Arc Lock
MW = Chrome Silicon Wire Lock

SS = Stainless Steel, Spiro Lock
MH = Chrome Silicon Hook Wire Lock

HOOKED WIRE LOCK

PART #	DIAMETER	THICKNESS	MATERIAL
708-063-MH	.708"	.063"	CHROME SILICON
748-063-MH	.748"	.063"	CHROME SILICON
787-063-MH	.787"	.063"	CHROME SILICON
866-063-MH	.866"	.063"	CHROME SILICON
866-073-MH	.866"	.073"	CHROME SILICON
927-073-MH	.927"	.073"	CHROME SILICON

SPIRO LOCK

PART #	DIAMETER	THICKNESS	MATERIAL
490-035-CS	.490"	.035"	CARBON STEEL
728-035-CS	.748"	.035"	CARBON STEEL
748-042-CS	.748"	.042"	CARBON STEEL
812-042-CS	.812"	.042"	CARBON STEEL
866-042-CS	.866"	.042"	CARBON STEEL
866-073-CS	.866"	.073"	CARBON STEEL
927-042-AS	.927"	.042"	ALLOY
927-042-CS	.927"	.042"	CARBON STEEL
927-073-AS	.927"	.073"	ALLOY
927-042-SS	.927"	.042"	STAINLESS STEEL
990-042-CS	.990"	.042"	CARBON STEEL
990-073-CS	.990"	.073"	CARBON STEEL
990-042-SS	.990"	.042"	STAINLESS STEEL
031-037-CS	1.031"	.037"	CARBON STEEL
031-042-CS	1.031"	.042"	CARBON STEEL
062-050-CS	1.062"	.050"	CARBON STEEL
094-037-CS	1.094"	.037"	CARBON STEEL
094-050-CS	1.094"	.050"	CARBON STEEL
094-037-SS	1.094"	.037"	STAINLESS STEEL

 LOCKS

TRU ARC LOCK

PART #	DIAMETER	THICKNESS	MATERIAL
490-035-CT	.490"	.035"	CARBON STEEL
748-035-CT	.748"	.035"	CARBON STEEL
812-042-CT	.812"	.042"	CARBON STEEL
866-042-CT	.866"	.042"	CARBON STEEL
905-042-CT	.905"	.042"	CARBON STEEL
927-042-CT	.927"	.042"	CARBON STEEL
990-042-CT	.990"	.042"	CARBON STEEL
031-042-CT	1.031"	.042"	CARBON STEEL
094-050-CT	1.094"	.050"	CARBON STEEL

WIRE LOCK

PART #	DIAMETER	THICKNESS	MATERIAL
512-040-AW	.512"	.040"	ALLOY
551-040-MW	.551"	.040"	CHROME SILICON
591-040-MW	.591"	.040"	CHROME SILICON
630-050-MW	.630"	.050"	CHROME SILICON
669-050-MW	.669"	.050"	CHROME SILICON
708-050-MW	.708"	.050"	CHROME SILICON
708-063-MW	.708"	.063"	CHROME SILICON
728-050-MW	.728"	.050"	CHROME SILICON
748-050-MW	.748"	.050"	CHROME SILICON
748-063-MW	.748"	.063"	CHROME SILICON
767-050-MW	.767"	.050"	CHROME SILICON
787-050-MW	.787"	.050"	CHROME SILICON
787-063-MW	.787"	.063"	CHROME SILICON
827-050-MW	.827"	.050"	CHROME SILICON
827-063-MW	.827"	.063"	CHROME SILICON
866-063-MW	.866"	.063"	CHROME SILICON
866-073-MW	.866"	.073"	CHROME SILICON
905-073-MW	.905"	.073"	CHROME SILICON
927-073-MW	.927"	.073"	CHROME SILICON
945-073-MW	.945"	.073"	CHROME SILICON
990-073-MW	.990"	.073"	CHROME SILICON
031-073-MW	1.031"	.073"	CHROME SILICON
094-073-MW	1.094"	.073"	CHROME SILICON

 OIL RAIL SUPPORTS

Part #	Description	Part #	Description	Part #	Description
3000-122	OIL RAIL SUPPORT	3700-162	OIL RAIL SUPPORT	4155-183	OIL RAIL SUPPORT
3040-122	OIL RAIL SUPPORT	3750-162	OIL RAIL SUPPORT	4185-162	OIL RAIL SUPPORT
3115-122	OIL RAIL SUPPORT	3775-162	OIL RAIL SUPPORT	4185-183	OIL RAIL SUPPORT
3170-122	OIL RAIL SUPPORT	3812-173	OIL RAIL SUPPORT	4215-183	OIL RAIL SUPPORT
3170-132	OIL RAIL SUPPORT	3840-173	OIL RAIL SUPPORT	4250-193	OIL RAIL SUPPORT
3230-122	OIL RAIL SUPPORT	3875-173	OIL RAIL SUPPORT	4280-193	OIL RAIL SUPPORT
3267-122	OIL RAIL SUPPORT	3905-173	OIL RAIL SUPPORT	4310-193	OIL RAIL SUPPORT
3285-122	OIL RAIL SUPPORT	3935-173	OIL RAIL SUPPORT	4350-193	OIL RAIL SUPPORT
3346-122	OIL RAIL SUPPORT	3960-173	OIL RAIL SUPPORT	4375-193	OIL RAIL SUPPORT
3385-122	OIL RAIL SUPPORT	4000-162	OIL RAIL SUPPORT	4405-193	OIL RAIL SUPPORT
3425-122	OIL RAIL SUPPORT	4000-183	OIL RAIL SUPPORT	4440-203	OIL RAIL SUPPORT
3465-142	OIL RAIL SUPPORT	4030-162	OIL RAIL SUPPORT	4470-203	OIL RAIL SUPPORT
3500-142	OIL RAIL SUPPORT	4030-183	OIL RAIL SUPPORT	4500-203	OIL RAIL SUPPORT
3510-142	OIL RAIL SUPPORT	4060-162	OIL RAIL SUPPORT	4530-203	OIL RAIL SUPPORT
3560-142	OIL RAIL SUPPORT	4060-183	OIL RAIL SUPPORT	4562-203	OIL RAIL SUPPORT
3562-162	OIL RAIL SUPPORT	4080-183	OIL RAIL SUPPORT	4600-162	OIL RAIL SUPPORT
3605-162	OIL RAIL SUPPORT	4125-162	OIL RAIL SUPPORT	4600-203	OIL RAIL SUPPORT
3625-162	OIL RAIL SUPPORT	4125-183	OIL RAIL SUPPORT	4636-203	OIL RAIL SUPPORT
3655-162	OIL RAIL SUPPORT	4155-162	OIL RAIL SUPPORT	4675-203	OIL RAIL SUPPORT



TREND PERFORMANCE PINS

JE Pistons is now a distributor of Trend Performance wrist pins!

These Trend wrist pins are made in the USA from premium H-13 steel, making them the perfect upgrade for your high rpm, forced induction, or nitrous motor!

PART #	DIAMETER	LENGTH	WALL THICKNESS	GRAM	
H6692050125C	0.669	2.050	0.125	Chamfer	H-13
H8662000175CD	0.866	2.000	0.175	Chamfer	H-13 DLC Coated
H8662250185C	0.866	2.250	0.185	Chamfer	H-13
H8662250200C	0.866	2.250	0.200	Chamfer	H-13
H8662250225C	0.866	2.250	0.225	Chamfer	H-13
H8662250250C	0.866	2.250	0.250	Chamfer	H-13
H8662500200C	0.866	2.500	0.200	Chamfer	H-13
H9052250205C	0.905	2.250	0.205	Chamfer	H-13
H9052500200C	0.905	2.500	0.200	Chamfer	H-13
H9272250165CD	0.927	2.250	0.165	Chamfer	H-13 DLC Coated
H9272250185C	0.927	2.250	0.185	Chamfer	H-13
H9272250185CD	0.927	2.250	0.185	Chamfer	H-13 DLC Coated
H9272250225C	0.927	2.250	0.225	Chamfer	H-13
H9272500185C	0.927	2.500	0.185	Chamfer	H-13
H9272500225C	0.927	2.500	0.225	Chamfer	H-13
H9272750155C	0.927	2.750	0.155	Chamfer	H-13
H9272750165C	0.927	2.750	0.165	Chamfer	H-13
H9272750185C	0.927	2.750	0.185	Chamfer	H-13
H9272750185CD	0.927	2.750	0.185	Chamfer	H-13 DLC Coated
H9272950185C	0.927	2.950	0.185	Chamfer	H-13
H9902500185C	0.990	2.500	0.185	Chamfer	H-13
H9902930185C	0.990	2.930	0.185	Chamfer	H-13
H9902930250C	0.990	2.930	0.250	Chamfer	H-13
H8662250200D	0.866	2.250	0.200	Straight	H-13 DLC Coated
H8662500155	0.866	2.500	0.155	Straight	H-13
H8662500185	0.866	2.500	0.185	Straight	H-13
H8662500200	0.866	2.500	0.200	Straight	H-13
H8662500220	0.866	2.500	0.220	Straight	H-13
H9052500240	0.905	2.500	0.240	Straight	H-13
H9272500165	0.927	2.500	0.165	Straight	H-13
H9272500185	0.927	2.500	0.185	Straight	H-13
H9272500185T	0.927	2.500	0.185	Straight	H-13 Tapered Wall
H9272500185D	0.927	2.500	0.185	Straight	H-13 DLC Coated
H9272500205	0.927	2.500	0.205	Straight	H-13
H9272500225	0.927	2.500	0.225	Straight	H-13
H9272750155	0.927	2.750	0.155	Straight	H-13
H9272750165	0.927	2.750	0.165	Straight	H-13
H9272750185	0.927	2.750	0.185	Straight	H-13
H9272750205	0.927	2.750	0.205	Straight	H-13
H9272750225	0.927	2.750	0.225	Straight	H-13
H9272950185	0.927	2.950	0.185	Straight	H-13
H9272950205	0.927	2.950	0.205	Straight	H-13
H9272950225	0.927	2.950	0.225	Straight	H-13
H9272950250	0.927	2.950	0.250	Straight	H-13
H9902750185	0.990	2.750	0.185	Straight	H-13
H9902750205	0.990	2.750	0.205	Straight	H-13
H9902915175	0.990	2.915	0.175	Straight	H-13
H9902930155	0.990	2.930	0.155	Straight	H-13
H9902930165	0.990	2.930	0.165	Straight	H-13
H9902930175	0.990	2.930	0.175	Straight	H-13
H9902930185	0.990	2.930	0.185	Straight	H-13
H9902930185D	0.990	2.930	0.185	Straight	H-13 DLC Coated
H9902930200	0.990	2.930	0.200	Straight	H-13
H9902930205	0.990	2.930	0.205	Straight	H-13
H9902930220	0.990	2.930	0.220	Straight	H-13
H9902930225	0.990	2.930	0.225	Straight	H-13
H9902930250	0.990	2.930	0.250	Straight	H-13
H9903100250	0.990	3.100	0.250	Straight	H-13
H10943400250T	1.094	3.400	0.250	Straight	H-13 Tapered Wall
H10943400250	1.094	3.400	0.250	Straight	H-13

JE PINS DIAMETRIC CHART

SERIES LEGEND

51 SERIES – 5115 LOW CARBON STEEL, CASE HARDENED, STRAIGHT WALL

52 SERIES – 52100 HIGH CARBON STEEL, THROUGH HARDENED, STRAIGHT WALL

93 SERIES – 9310 NICKEL CARBON STEEL ALLOY, STRAIGHT WALL

95 SERIES – 9310 NICKEL CARBON STEEL ALLOY, TAPERED WALL

CT SERIES – S7 THROUGH HARDENED TAPERED WALL

PS SERIES – 9310 NICKEL CARBON STEEL ALLOY PRECISION STRAIGHT WALL

PT SERIES – 9310 NICKEL CARBON STEEL ALLOY PRECISION TAPERED WALL

P6 SERIES – 9310 NICKEL CARBON STEEL ALLOY PRECISION TAPERED WALL DLC COATED

34 SERIES – DLC CASIDIAM COATED STRAIGHT WALL

38 SERIES – C350 CASIDIAM COATED STRAIGHT WALL

46 SERIES – TITANIUM DLC COATED STRAIGHT WALL

64 SERIES – GKHW DLC COATED STRAIGHT WALL

66 SERIES – GKHW DLC COATED TAPERED WALL

72 SERIES – 300M STRAIGHT WALL

94 SERIES – 9310 NICKEL CARBON STEEL ALLOY WITH DLC COATING

98 SERIES – 9310 NICKEL CARBON STEEL ALLOY WITH CASIDIAM COATING

JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
490-1908-06-51S	,490"	12,4	1,908"	48,5	,060"	1,5	22
490-2075-09-55S	,490"	12,4	2,750"	69,9	,090"	2,3	Call
512-1535-10-5XC	,512"	13,0	1,535"	39,0	,100"	2,5	Call
551-1650-12-93C	,551"	14,0	1,650"	41,9	,120"	3,0	34
591-1500-14-PTC	,591"	15,0	1,500"	38,1	,140"	3,6	Call
591-1650-14-PCC	,591"	15,0	1,650"	41,9	,140"	3,6	Call
591-1650-14-PTC	,591"	15,0	1,650"	41,9	,140"	3,6	40
591-1750-10-93C	,591"	15,0	1,750"	44,5	,100"	2,5	35
591-2050-10-52C	,591"	15,0	2,050"	52,1	,100"	2,5	42
591-2050-11-51C	,591"	15,0	2,050"	52,1	,110"	2,8	43
630-1500-14-93C	,630"	16,0	1,500"	38,1	,140"	3,6	42
630-1500-14-9BC	,630"	16,0	1,500"	38,1	,140"	3,6	Call
630-1500-14-PCC	,630"	16,0	1,500"	38,1	,140"	3,6	Call
630-1500-14-PTC	,630"	16,0	1,500"	38,1	,140"	3,6	Call
630-1650-12-93C	,630"	16,0	1,650"	41,9	,120"	3,0	40
630-1650-14-PCC	,630"	16,0	1,650"	41,9	,140"	3,6	Call
630-1650-14-PTC	,630"	16,0	1,650"	41,9	,140"	3,6	42
630-1750-12-93C	,630"	16,0	1,750"	44,5	,120"	3,0	43
630-1750-14-PTC	,630"	16,0	1,750"	44,5	,140"	3,6	45
630-2050-14-95C	,630"	16,0	2,050"	52,1	,140"	3,6	53
630-2050-17-PSC	,630"	16,0	2,500"	63,5	,170"	4,3	Call
669-1650-14-PTC	,669"	17,0	1,650"	41,9	,140"	3,6	46



JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
669-2050-11-52C	,669"	17,0	2,050"	52,1	,110"	2,8	51
669-2050-12-51C	,669"	17,0	2,050"	52,1	,120"	3,0	53
669-2050-14-52C	,669"	17,0	2,050"	52,1	,140"	3,6	60
669-2250-11-52C	,669"	17,0	2,250"	57,2	,110"	2,8	57
669-2250-12-51C	,669"	17,0	2,250"	57,2	,120"	3,0	59
669-2250-14-52C	,669"	17,0	2,250"	57,2	,140"	3,6	67
687-2250-12-PSC	,687"	17,4	2,250"	57,2	,120"	3,0	61
708-1650-14-PTC	,708"	18,0	1,650"	41,9	,140"	3,6	50
708-1750-14-PTC	,708"	18,0	1,750"	44,5	,140"	3,6	52
708-1925-16-93C	,708"	18,0	1,925"	48,9	,160"	4,1	Call
708-1925-16-9BC	,708"	18,0	1,925"	48,9	,160"	4,1	Call
708-2000-17-38C	,708"	18,0	2,000"	50,8	,170"	4,3	75
708-2050-10-93C	,708"	18,0	2,050"	52,1	,100"	2,5	50
708-2050-12-51C	,708"	18,0	2,050"	52,1	,120"	3,0	58
708-2050-12-93C	,708"	18,0	2,050"	52,1	,120"	3,0	57
708-2050-14-51C	,708"	18,0	2,050"	52,1	,140"	3,6	64
708-2050-14-93C	,708"	18,0	2,050"	52,1	,140"	3,6	65
708-2050-16-93C	,708"	18,0	2,050"	52,1	,160"	4,1	71
708-2050-16-9BC	,708"	18,0	2,500"	63,5	,160"	4,1	Call
708-2250-10-52C	,708"	18,0	2,250"	57,2	,100"	2,5	55
708-2250-12-51C	,708"	18,0	2,250"	57,2	,120"	3,0	64
708-2250-12-52C	,708"	18,0	2,250"	57,2	,120"	3,0	63
708-2250-14-93C	,708"	18,0	2,250"	57,2	,140"	3,6	71
708-2250-14-9BC	,708"	18,0	2,250"	57,2	,140"	3,6	70
708-2250-18-PTC	,708"	18,0	2,250"	57,2	,180"	4,6	79
708-2350-18-PTC	,708"	18,0	2,350"	59,7	,180"	4,6	83
728-2250-12-52C	,728"	18,5	2,250"	57,2	,120"	3,0	64
748-1750-16-93C	,748"	19,0	1,750"	44,5	,160"	4,1	65
748-2050-12-52C	,748"	19,0	2,050"	52,1	,120"	3,0	61
748-2050-14-93C	,748"	19,0	2,050"	52,1	,140"	3,6	70
748-2050-16-93C	,748"	19,0	2,050"	52,1	,160"	4,1	77
748-2050-16-9BC	,748"	19,0	2,500"	63,5	,160"	4,1	Call
748-2250-12-51C	,748"	19,0	2,250"	57,2	,120"	3,0	70
748-2250-12-51S	,748"	19,0	2,250"	57,2	,120"	3,0	70
748-2250-12-52C	,748"	19,0	2,250"	57,2	,120"	3,0	68
748-2250-14-51C	,748"	19,0	2,250"	57,2	,140"	3,6	76
748-2250-14-95C	,748"	19,0	2,250"	57,2	,140"	3,6	72
748-2500-12-51C	,748"	19,0	2,500"	63,5	,120"	3,0	78
748-2500-12-52C	,748"	19,0	2,500"	63,5	,120"	3,0	75
748-2500-14-PTC	,748"	19,0	2,500"	63,5	,140"	3,6	79
750-1800-13-52C	,750"	19,1	1,800"	45,7	,130"	3,3	Call
750-2250-13-52C	,750"	19,1	2,250"	57,2	,130"	3,3	72
750-2500-14-51C	,750"	19,1	2,500"	63,5	,140"	3,6	86
750-2500-14-51S	,750"	19,1	2,500"	63,5	,140"	3,6	86
767-2250-13-52C	,767"	19,5	2,250"	57,2	,130"	3,3	74
787-1800-18-38C	,787"	20,0	1,800"	45,7	,180"	4,6	81
787-2050-10-93C	,787"	20,0	2,050"	52,1	0,1	2,5	57
787-2050-14-93C	,787"	20,0	2,050"	52,1	,140"	3,6	74
787-2050-16-93C	,787"	20,0	2,050"	52,1	,160"	4,1	82

JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
787-2050-16-9BC	,787"	20,0	2,500"	63,5	,160"	4,1	Call
787-2050-18-PTC	,787"	20,0	2,050"	52,1	,180"	4,6	81
787-2050-21-93C	,787"	20,0	2,500"	63,5	,210"	5,3	Call
787-2250-11-93C	,787"	20,0	2,250"	57,2	,110"	2,8	69
787-2250-12-51C	,787"	20,0	2,250"	57,2	,120"	3,0	69
787-2250-14-93C	,787"	20,0	2,250"	57,2	,140"	3,6	83
787-2250-18-51C	,787"	20,0	2,250"	57,2	,180"	4,6	97
787-2250-18-PTC	,787"	20,0	2,250"	57,2	,180"	4,6	90
787-2250-21-93C	,787"	20,0	2,250"	57,2	,210"	5,3	110
787-2350-10-93C	,787"	20,0	2,350"	59,7	,100"	2,5	66
787-2350-14-51C	,787"	20,0	2,350"	59,7	,140"	3,6	87
787-2350-14-93C	,787"	20,0	2,350"	59,7	,140"	3,6	87
787-2350-18-PTC	,787"	20,0	2,350"	59,7	,180"	4,6	94
787-2500-12-51C	,787"	20,0	2,500"	63,5	,120"	3,0	77
787-2500-14-51C	,787"	20,0	2,500"	63,5	,140"	3,6	93
787-2500-14-51S	,787"	20,0	2,500"	63,5	,140"	3,6	93
787-2500-17-98C	,787"	20,0	2,500"	63,5	,170"	4,3	Call
787-2850-14-51S	,787"	20,0	2,850"	72,4	,140"	3,6	Call
791-2250-11-52C	,791"	20,1	2,250"	57,2	,110"	2,8	Call
791-2500-14-51C	,791"	20,1	2,500"	63,5	,140"	3,6	95
791-2500-14-51S	,791"	20,1	2,500"	63,5	,140"	3,6	95
791-2795-14-51C	,791"	20,1	2,795"	71,0	,140"	3,6	105
791-2795-14-51S	,791"	20,1	2,795"	71,0	,140"	3,6	105
792-2500-14-51C	,792"	20,1	2,500"	63,5	,140"	3,6	87
792-2500-14-51S	,792"	20,1	2,500"	63,5	,140"	3,6	87
792-2795-14-51C	,792"	20,1	2,795"	71,0	,140"	3,6	97
792-2795-14-51S	,792"	20,1	2,795"	71,0	,140"	3,6	97
812-2050-13-PTC	,812"	20,6	2,050"	52,1	,130"	3,3	68
812-2250-12-52C	,812"	20,6	2,250"	57,2	,120"	3,0	74
812-2250-13-PSS	,812"	20,6	2,250"	57,2	,130"	3,3	Call
812-2250-14-51C	,812"	20,6	2,250"	57,2	,140"	3,6	86
812-2250-14-51S	,812"	20,6	2,250"	57,2	,140"	3,6	86
812-2250-14-95C	,812"	20,6	2,250"	57,2	,140"	3,6	79
812-2250-15-98C	,812"	20,6	2,250"	57,2	,150"	3,8	Call
812-2485-15-PSC	,812"	20,6	2,485"	63,1	,150"	3,8	Call
812-2500-12-52C	,812"	20,6	2,500"	63,5	,120"	3,0	84
812-2500-12-52S	,812"	20,6	2,500"	63,5	,120"	3,0	83
812-2500-14-51C	,812"	20,6	2,050"	52,1	,140"	3,6	95
812-2500-15-PSC	,812"	20,6	2,500"	63,5	,150"	3,8	99
827-2050-12-51C	,827"	21,0	2,050"	52,1	,120"	3,0	73
827-2050-12-93C	,827"	21,0	2,050"	52,1	,120"	3,0	71
827-2050-15-93C	,827"	21,0	2,050"	52,1	,150"	3,8	81
827-2050-15-94C	,827"	21,0	2,050"	52,1	,150"	3,8	81
827-2050-18-51C	,827"	21,0	2,050"	52,1	,180"	4,6	95
827-2050-21-93C	,827"	21,0	2,050"	52,1	,210"	5,3	106
827-2250-13-93C	,827"	21,0	2,250"	57,2	,130"	3,3	82
827-2250-15-51C	,827"	21,0	2,250"	57,2	,150"	3,8	91
827-2250-15-51S	,827"	21,0	2,250"	57,2	,150"	3,8	91
827-2250-15-93C	,827"	21,0	2,250"	57,2	,150"	3,8	90



JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
827-2250-21-93C	.827"	21,0	2,250"	57,2	.210"	5,3	116
827-2350-15-51C	.827"	21,0	2,350"	59,7	.150"	3,8	95
827-2500-15-51C	.827"	21,0	2,500"	63,5	.150"	3,8	101
827-2500-17-93C	.827"	21,0	2,500"	63,5	.170"	4,3	113
827-2500-17-93S	.827"	21,0	2,500"	63,5	.170"	4,3	113
827-2500-21-93C	.827"	21,0	2,500"	63,5	.210"	5,3	Call
827-2850-13-PTS	.827"	21,0	2,850"	72,4	.130"	3,3	98
866-1850-15-52C	.866"	22,0	1,850"	47,0	.150"	3,8	Call
866-2000-17-72S	.866"	22,0	2,000"	50,8	.170"	4,3	Call
866-2000-17-74C	.866"	22,0	2,000"	50,8	.170"	4,3	95
866-2000-17-94C	.866"	22,0	2,000"	50,8	.170"	4,3	95
866-2000-17-98C	.866"	22,0	2,000"	50,8	.170"	4,3	Call
866-2000-18-34C	.866"	22,0	2,000"	50,8	.180"	4,6	102
866-2050-12-51C	.866"	22,0	2,050"	52,1	.120"	3,0	74
866-2050-12-52C	.866"	22,0	2,050"	52,1	.120"	3,0	74
866-2050-15-51C	.866"	22,0	2,050"	52,1	.150"	3,8	89
866-2050-15-52C	.866"	22,0	2,050"	52,1	.150"	3,8	89
866-2050-15-93C	.866"	22,0	2,050"	52,1	.150"	3,8	89
866-2050-15-PSC	.866"	22,0	2,500"	63,5	.150"	3,8	Call
866-2050-18-51C	.866"	22,0	2,050"	52,1	.180"	4,6	103
866-2250-12-52C	.866"	22,0	2,250"	57,2	.120"	3,0	81
866-2250-15-51C	.866"	22,0	2,250"	57,2	.150"	3,8	98
866-2250-15-93C	.866"	22,0	2,250"	57,2	.150"	3,8	97
866-2250-15-94C	.866"	22,0	2,250"	57,2	.150"	3,8	96
866-2250-15-98C	.866"	22,0	2,250"	57,2	.150"	3,8	97
866-2250-17-52C	.866"	22,0	2,250"	57,2	.170"	4,3	106
866-2250-17-94C	.866"	22,0	2,250"	57,2	.170"	4,3	106
866-2250-23-93C	.866"	22,0	2,250"	57,2	.230"	5,8	132
866-2350-15-51C	.866"	22,0	2,350"	59,7	.150"	3,8	103
866-2350-17-93C	.866"	22,0	2,350"	59,7	.170"	4,3	112
866-2500-10-52C	.866"	22,0	2,500"	63,5	.100"	2,5	77
866-2500-12-52C	.866"	22,0	2,500"	63,5	.120"	3,0	90
866-2500-12-52S	.866"	22,0	2,500"	63,5	.120"	3,0	90
866-2500-15-51C	.866"	22,0	2,500"	63,5	.150"	3,8	109
866-2500-15-51S	.866"	22,0	2,500"	63,5	.150"	3,8	109
866-2500-15-93C	.866"	22,0	2,500"	63,5	.150"	3,8	108
866-2500-15-93S	.866"	22,0	2,500"	63,5	.150"	3,8	110
866-2500-15-95C	.866"	22,0	2,500"	63,5	.150"	3,8	100
866-2500-17-93C	.866"	22,0	2,500"	63,5	.170"	4,3	119
866-2500-17-93S	.866"	22,0	2,500"	63,5	.170"	4,3	119
866-2500-18-51C	.866"	22,0	2,500"	63,5	.180"	4,6	125
866-2500-21-93C	.866"	22,0	2,500"	63,5	.210"	5,3	138
866-2750-15-51C	.866"	22,0	2,750"	69,9	.150"	3,8	121
866-2750-15-51S	.866"	22,0	2,750"	69,9	.150"	3,8	121
866-2850-15-51C	.866"	22,0	2,850"	72,4	.150"	3,8	125
867-2500-18-98C	.867"	22,0	2,500"	63,5	.180"	4,6	Call
868-2250-15-PSC	.868"	22,0	2,250"	57,2	.150"	3,8	99
875-2500-12-52C	.875"	22,2	2,500"	63,5	.120"	3,0	90
875-2500-12-52S	.875"	22,2	2,500"	63,5	.120"	3,0	90

JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
875-2500-15-51S	.875"	22,2	2,500"	63,5	.150"	3,8	113
875-2500-16-PTC	.875"	22,2	2,500"	63,5	.160"	4,1	109
875-2850-15-51S	.875"	22,2	2,850"	72,4	.150"	3,8	129
886-2250-18-51C	.886"	22,5	2,250"	57,2	.180"	4,6	Call
886-2250-22-93C	.886"	22,5	2,250"	57,2	.220"	5,6	Call
905-2050-15-51C	.905"	23,0	2,050"	52,1	.150"	3,8	97
905-2050-15-52C	.905"	23,0	2,050"	52,1	.150"	3,8	91
905-2050-18-51C	.905"	23,0	2,050"	52,1	.180"	4,6	106
905-2050-21-93C	.905"	23,0	2,050"	52,1	.210"	5,3	120
905-2250-15-51C	.905"	23,0	2,250"	57,2	.150"	3,8	106
905-2250-15-52C	.905"	23,0	2,250"	57,2	.150"	3,8	99
905-2250-18-51C	.905"	23,0	2,250"	57,2	.180"	4,6	117
905-2250-18-51S	.905"	23,0	2,250"	57,2	.180"	4,6	117
905-2250-18-93C	.905"	23,0	2,250"	57,2	.180"	4,6	118
905-2250-18-93S	.905"	23,0	2,250"	57,2	.180"	4,6	118
905-2250-21-93C	.905"	23,0	2,250"	57,2	.210"	5,3	132
905-2250-21-93S	.905"	23,0	2,250"	57,2	.210"	5,3	132
905-2250-21-94S	.905"	23,0	2,250"	57,2	.210"	5,3	Call
905-2350-15-51C	.905"	23,0	2,350"	59,7	.150"	3,8	111
905-2500-15-51C	.905"	23,0	2,500"	63,5	.150"	3,8	118
905-2500-15-51S	.905"	23,0	2,500"	63,5	.150"	3,8	118
905-2500-15-52C	.905"	23,0	2,500"	63,5	.150"	3,8	112
905-2500-18-93C	.905"	23,0	2,500"	63,5	.180"	4,6	130
905-2500-18-93S	.905"	23,0	2,500"	63,5	.180"	4,6	130
905-2500-21-93C	.905"	23,0	2,500"	63,5	.210"	5,3	147
912-2250-14-51C	.912"	23,2	2,250"	57,2	.140"	3,6	99
912-2500-12-52S	.912"	23,2	2,500"	63,5	.120"	3,0	97
912-2500-14-51S	.912"	23,2	2,500"	63,5	.140"	3,6	111
912-2500-14-PTS	.912"	23,2	2,500"	63,5	.140"	3,6	98
912-2750-12-52S	.912"	23,2	2,750"	69,9	.120"	3,0	108
912-2750-14-51S	.912"	23,2	2,750"	69,9	.140"	3,6	123
912-2750-15-52S	.912"	23,2	2,750"	69,9	.150"	3,8	127
922-2250-15-51S	.922"	23,4	2,250"	57,2	.150"	3,8	Call
922-2750-15-51S	.922"	23,4	2,750"	69,9	.150"	3,8	Call
927-2000-13-51C	.927"	23,5	2,000"	50,8	.130"	3,3	82
927-2000-15-93C	.927"	23,5	2,000"	50,8	.150"	3,8	90
927-2000-18-94C	.927"	23,5	2,000"	50,8	.180"	4,6	107
927-2250-15-51C	.927"	23,5	2,250"	57,2	.150"	3,8	106
927-2250-15-93C	.927"	23,5	2,250"	57,2	.150"	3,8	102
927-2250-15-94C	.927"	23,5	2,250"	57,2	.150"	3,8	104
927-2250-15-98C	.927"	23,5	2,250"	57,2	.150"	3,8	105
927-2250-17-51C	.927"	23,5	2,250"	57,2	.170"	4,3	116
927-2250-17-52C	.927"	23,5	2,250"	57,2	.170"	4,3	113
927-2250-17-94C	.927"	23,5	2,250"	57,2	.170"	4,3	116
927-2250-18-93C	.927"	23,5	2,250"	57,2	.180"	4,6	123
927-2250-20-93C	.927"	23,5	2,250"	57,2	.200"	5,1	131
927-2350-13-93C	.927"	23,5	2,350"	59,7	.130"	3,3	100
927-2350-15-51C	.927"	23,5	2,350"	59,7	.150"	3,8	111
927-2400-13-51C	.927"	23,5	2,400"	61,0	.130"	3,3	103



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Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
927-2500-12-95S	,927"	23,5	2,500"	63,5	,120"	3,0	92
927-2500-13-51S	,927"	23,5	2,500"	63,5	,130"	3,3	108
927-2500-13-93S	,927"	23,5	2,500"	63,5	,130"	3,3	106
927-2500-15-51C	,927"	23,5	2,500"	63,5	,150"	3,8	118
927-2500-15-51S	,927"	23,5	2,500"	63,5	,150"	3,8	118
927-2500-15-52C	,927"	23,5	2,500"	63,5	,150"	3,8	116
927-2500-15-93C	,927"	23,5	2,500"	63,5	,150"	3,8	113
927-2500-15-93S	,927"	23,5	2,500"	63,5	,150"	3,8	114
927-2500-15-94C	,927"	23,5	2,500"	63,5	,150"	3,8	117
927-2500-15-95C	,927"	23,5	2,500"	63,5	,150"	3,8	110
927-2500-15-95S	,927"	23,5	2,500"	63,5	,150"	3,8	110
927-2500-15-98C	,927"	23,5	2,500"	63,5	,150"	3,8	Call
927-2500-17-93C	,927"	23,5	2,500"	63,5	,170"	4,3	126
927-2750-13-93C	,927"	23,5	2,750"	69,9	,130"	3,3	115
927-2750-13-93S	,927"	23,5	2,750"	69,9	,130"	3,3	117
927-2750-15-51C	,927"	23,5	2,750"	69,9	,150"	3,8	130
927-2750-15-51S	,927"	23,5	2,750"	69,9	,150"	3,8	130
927-2750-15-52C	,927"	23,5	2,750"	69,9	,150"	3,8	128
927-2750-15-52S	,927"	23,5	2,750"	69,9	,150"	3,8	128
927-2750-15-93C	,927"	23,5	2,750"	69,9	,150"	3,8	125
927-2750-15-93S	,927"	23,5	2,750"	69,9	,150"	3,8	126
927-2750-15-94C	,927"	23,5	2,750"	69,9	,150"	3,8	127
927-2750-15-98C	,927"	23,5	2,750"	69,9	,150"	3,8	Call
927-2750-17-93C	,927"	23,5	2,750"	69,9	,170"	4,3	139
927-2750-17-93S	,927"	23,5	2,750"	69,9	,170"	4,3	139
927-2750-17-94C	,927"	23,5	2,750"	69,9	,170"	4,3	141
927-2750-18-52C	,927"	23,5	2,750"	69,9	,180"	4,6	150
927-2750-18-52S	,927"	23,5	2,750"	69,9	,180"	4,6	150
927-2750-18-95C	,927"	23,5	2,750"	69,9	,180"	4,6	140
927-2750-18-95S	,927"	23,5	2,750"	69,9	,180"	4,6	139
927-2850-15-51S	,927"	23,5	2,850"	72,4	,150"	3,8	134
927-2950-15-51C	,927"	23,5	2,950"	74,9	,150"	3,8	140
927-2950-15-51S	,927"	23,5	2,950"	74,9	,150"	3,8	139
927-2950-15-52C	,927"	23,5	2,950"	74,9	,150"	3,8	136
927-2950-15-72C	,927"	23,5	2,950"	74,9	,150"	3,8	Call
927-2950-15-93C	,927"	23,5	2,950"	74,9	,150"	3,8	134
927-2950-15-93S	,927"	23,5	2,950"	74,9	,150"	3,8	135
927-2950-17-93C	,927"	23,5	2,950"	74,9	,170"	4,3	148
927-2950-17-93S	,927"	23,5	2,950"	74,9	,170"	4,3	150
927-2950-18-93S	,927"	23,5	2,950"	74,9	,180"	4,6	162
927-2950-18-95S	,927"	23,5	2,950"	74,9	,180"	4,6	151
927-2950-20-93C	,927"	23,5	2,950"	74,9	,200"	5,1	172
927-2950-20-93S	,927"	23,5	2,950"	74,9	,200"	5,1	172
928-2350-15-51C	,928"	23,6	2,350"	59,7	,150"	3,8	112
928-2500-13-52S	,928"	23,6	2,500"	63,5	,130"	3,3	106
928-2500-15-51C	,928"	23,6	2,500"	63,5	,150"	3,8	118
928-2500-15-51S	,928"	23,6	2,500"	63,5	,150"	3,8	118
928-2500-15-52C	,928"	23,6	2,500"	63,5	,150"	3,8	117
928-2500-15-52S	,928"	23,6	2,500"	63,5	,150"	3,8	118

JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
928-2750-13-52S	,928"	23,6	2,500"	63,5	,130"	3,3	115
928-2750-15-51S	,928"	23,6	2,750"	69,9	,150"	3,8	131
928-2750-15-93C	,928"	23,6	2,750"	69,9	,150"	3,8	125
928-2750-15-93S	,928"	23,6	2,750"	69,9	,150"	3,8	125
928-2750-15-94C	,928"	23,6	2,750"	69,9	,150"	3,8	129
928-2750-15-98C	,928"	23,6	2,750"	69,9	,150"	3,8	Call
928-2750-17-93S	,928"	23,6	2,750"	69,9	,170"	4,3	Call
928-2950-13-72C	,928"	23,6	2,950"	74,9	,130"	3,3	123
928-2950-13-72S	,928"	23,6	2,950"	74,9	,130"	3,3	123
928-2950-15-51C	,928"	23,6	2,950"	74,9	,150"	3,8	140
928-2950-15-51S	,928"	23,6	2,950"	74,9	,150"	3,8	140
928-2950-15-93C	,928"	23,6	2,950"	74,9	,150"	3,8	136
928-2950-17-93C	,928"	23,6	2,950"	74,9	,170"	4,3	154
929-2500-11-52S	,929"	23,6	2,500"	63,5	,110"	2,8	95
929-2500-13-52S	,929"	23,6	2,500"	63,5	,130"	3,3	107
929-2500-15-93S	,929"	23,6	2,500"	63,5	,150"	3,8	114
929-2750-13-52S	,929"	23,6	2,750"	69,9	,130"	3,3	116
929-2750-17-93C	,929"	23,6	2,750"	69,9	,170"	4,3	Call
929-2950-15-93C	,929"	23,6	2,950"	74,9	,150"	3,8	139
929-2950-15-93S	,929"	23,6	2,950"	74,9	,150"	3,8	135
929-2950-17-93S	,929"	23,6	2,950"	74,9	,170"	4,3	Call
930-2500-13-52S	,930"	23,6	2,500"	63,5	,130"	3,3	106
930-2500-15-52C	,930"	23,6	2,500"	63,5	,150"	3,8	Call
930-2500-15-93S	,930"	23,6	2,500"	63,5	,150"	3,8	Call
930-2750-15-51S	,930"	23,6	2,750"	69,9	,150"	3,8	132
930-2950-15-52S	,930"	23,6	2,950"	74,9	,150"	3,8	139
930-2950-15-93C	,930"	23,6	2,950"	74,9	,150"	3,8	136
930-2950-17-93C	,930"	23,6	2,950"	74,9	,170"	4,3	155
931-2950-17-93C	,931"	23,6	2,950"	74,9	,170"	4,3	Call
940-2500-16-51S	,940"	23,9	2,500"	63,5	,160"	4,1	125
940-2750-16-51S	,940"	23,9	2,750"	69,9	,160"	4,1	137
945-2250-15-51C	,945"	24,0	2,250"	57,2	,150"	3,8	105
945-2250-15-5AC	,945"	24,0	2,250"	57,2	,150"	3,8	Call
945-2500-14-51C	,945"	24,0	2,500"	63,5	,140"	3,6	116
945-2500-14-51S	,945"	24,0	2,500"	63,5	,140"	3,6	117
945-2500-14-52C	,945"	24,0	2,500"	63,5	,140"	3,6	116
945-2500-18-52C	,945"	24,0	2,500"	63,5	,180"	4,6	138
945-2750-14-51S	,945"	24,0	2,750"	69,9	,140"	3,6	128
945-2850-14-51C	,945"	24,0	2,850"	72,4	,140"	3,6	132
975-2750-16-51S	,975"	24,8	2,750"	69,9	,160"	4,1	144
975-2930-16-51S	,975"	24,8	2,930"	74,4	,160"	4,1	154
980-2750-15-51S	,980"	24,9	2,750"	69,9	,150"	3,8	135
980-2930-16-51S	,980"	24,9	2,930"	74,4	,160"	4,1	156
984-2500-15-51C	,984"	25,0	2,500"	63,5	,150"	3,8	125
984-2750-15-51S	,984"	25,0	2,750"	69,9	,150"	3,8	138
984-2930-16-51S	,984"	25,0	2,930"	74,4	,160"	4,1	158
990-2500-15-52C	,990"	25,1	2,500"	63,5	,150"	3,8	123
990-2500-18-51C	,990"	25,1	2,500"	63,5	,180"	4,6	Call
990-2500-23-93C	,990"	25,1	2,500"	63,5	,230"	5,8	Call

JE PINS DIAMETRIC CHART

Part #	Diameter (inch)	Diameter (mm)	Length (inch)	Length (mm)	Wall (inch)	Wall (mm)	Gram
990-2750-13-52S	,990"	25,1	2,750"	69,9	,130"	3,3	125
990-2750-15-51S	,990"	25,1	2,750"	69,9	,150"	3,8	141
990-2750-18-51S	,990"	25,1	2,750"	69,9	,180"	4,6	164
990-2800-20-93C	,990"	25,1	2,800"	71,1	,200"	5,1	Call
990-2930-13-52S	,990"	25,1	2,930"	74,4	,130"	3,3	133
990-2930-15-51C	,990"	25,1	2,930"	74,4	,150"	3,8	150
990-2930-15-51S	,990"	25,1	2,930"	74,4	,150"	3,8	152
990-2930-15-52C	,990"	25,1	2,930"	74,4	,150"	3,8	146
990-2930-15-52S	,990"	25,1	2,930"	74,4	,150"	3,8	144
990-2930-15-95S	,990"	25,1	2,930"	74,4	,150"	3,8	139
990-2930-18-51S	,990"	25,1	2,930"	74,4	,180"	4,6	174
990-2930-18-52C	,990"	25,1	2,930"	74,4	,180"	4,6	172
990-2930-18-52S	,990"	25,1	2,930"	74,4	,180"	4,6	172
990-2930-18-93C	,990"	25,1	2,930"	74,4	,180"	4,6	173
990-2930-18-93S	,990"	25,1	2,930"	74,4	,180"	4,6	173
990-2930-18-95C	,990"	25,1	2,930"	74,4	,180"	4,6	161
990-2930-18-95S	,990"	25,1	2,930"	74,4	,180"	4,6	164
990-2930-18-PTC	,990"	25,1	2,930"	74,4	,180"	4,6	Call
990-2930-20-52C	,990"	25,1	2,930"	74,4	,200"	5,1	186
990-2930-20-52S	,990"	25,1	2,930"	74,4	,200"	5,1	186
990-2930-20-93C	,990"	25,1	2,930"	74,4	,200"	5,1	Call
990-2930-20-93S	,990"	25,1	2,930"	74,4	,200"	5,1	190
990-2930-20-94C	,990"	25,1	2,930"	74,4	,200"	5,1	Call
990-2930-24-93S	,990"	25,1	2,930"	74,4	,240"	6,1	215
991-2930-15-52S	,991"	25,2	2,930"	74,4	,130"	3,3	144
991-2930-18-52S	,991"	25,2	2,930"	74,4	,180"	4,6	172
991-2930-20-52S	,991"	25,2	2,930"	74,4	,200"	5,1	184
992-2930-15-51S	,992"	25,2	2,930"	74,4	,150"	3,8	151
992-2930-15-52S	,992"	25,2	2,930"	74,4	,150"	3,8	146
992-2930-18-51S	,992"	25,2	2,930"	74,4	,180"	4,6	175
992-2930-18-52S	,992"	25,2	2,930"	74,4	,180"	4,6	173
993-2930-18-51S	,993"	25,2	2,930"	74,4	,180"	4,6	176
993-2930-18-52S	,993"	25,2	2,930"	74,4	,180"	4,6	174
000-2750-16-51C	1,000"	25,4	2,750"	69,9	,160"	4,1	Call
000-2750-16-51S	1,000"	25,4	2,750"	69,9	,160"	4,1	146
000-2930-16-51S	1,000"	25,4	2,930"	74,4	,160"	4,1	156
024-2250-14-51S	1,024"	26,0	2,250"	57,2	,140"	3,6	113
024-2500-20-51S	1,024"	26,0	2,500"	63,5	,200"	5,1	Call
024-2950-18-TSS	1,024"	26,0	2,950"	74,9	,180"	4,6	Call
031-2750-15-51S	1,031"	26,2	2,750"	69,9	,150"	3,8	151
031-2925-20-TSS	1,031"	26,2	2,925"	74,3	,200"	5,1	Call
031-2930-17-51S	1,031"	26,2	2,930"	74,4	,170"	4,3	175
040-2930-18-51S	1,040"	26,4	2,930"	74,4	,180"	4,6	180
094-2930-13-52S	1,094"	27,8	2,930"	74,4	,130"	3,3	147
094-2930-15-51S	1,094"	27,8	2,930"	74,4	,150"	3,8	170
094-2930-15-52S	1,094"	27,8	2,930"	74,4	,150"	3,8	166
094-2930-19-51S	1,094"	27,8	2,930"	74,4	,190"	4,8	201
094-2930-22-52S	1,094"	27,8	2,930"	74,4	,220"	5,6	Call
094-3000-22-52S	1,094"	27,8	3,000"	76,2	,220"	5,6	230
094-3125-19-51S	1,094"	27,8	3,125"	79,4	,190"	4,8	214
094-3250-29-CTS	1,094"	27,8	3,250"	82,6	,290"	7,4	294

HEAD GASKETS

Racing engines need racing gaskets! Are you still running a regular, off-the-shelf, OE replacement gasket made for high volume production engines? Our gaskets are made by industry leaders of sealing technology for decades. Our high performance products are featured in professional race engines in NASCAR, NHRA, American Le Mans Series, Grand Am, World of Outlaws and other top level racing organizations everyday! Trust the same engineering and experience to seal your engine with our Multi Layer Steel head gaskets. Our product line is full of exclusive features you won't find on any other gasket, anywhere. Don't put a standard gasket in your engine, step up your program with our gaskets!

EXCLUSIVE FEATURES:

- Premium Raw Materials
- Proprietary Coating Technologies
- Optimized Embossing Formation
- Stress Stabilization & Relaxation





HEAD GASKETS

Alfa Romeo

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Alfa 2.0L Twin Spark	HG-ALF-001	Copper	0,063	1,60	3,346	85,00
Alfa 2.0L Twin Spark	HG-ALF-002	Copper	0,080	2,03	3,346	85,00
Alfa 2.5L V6	HG-ALF-003	CFM-20	0,059	1,50	3,898	99,00
Alfa GTA Nord (1 Required)	HG-ALF-004	Copper	0,027	0,69	3,346	85,00
Alfa GTA Nord (2 Required)	HG-ALF-005	Copper	0,043	1,09	3,346	85,00
Alfa Romeo 2.5L V6 Left	HG-ALF-006	CFM-20	0,059	1,50	3,858	98,00
Alfa Romeo 2.5L V6 Left	HG-ALF-007	CFM-20	0,059	1,50	3,976	101,00
Alfa Romeo 2.5L V6 Left	HG-ALF-008	CFM-20	0,059	1,50	3,898	99,00
Alfa Romeo 2.5L V6 Right	HG-ALF-009	CFM-20	0,059	1,50	3,858	98,00
Alfa Romeo 2.5L V6 Right	HG-ALF-010	CFM-20	0,059	1,50	3,976	101,00
Alfa GTA 2.0L	HG-ALF-011	CFM-20	0,043	1,09		

Amilcar

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Amilcar 1925 Side Valve	HG-AMI-001	Siamese copper	0,043	1,09		
Amilcar 1925 Side Valve	HG-AMI-002	Copper	0,063	1,60	2,441	62,00

Austin Mini

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Austin Mini 1300Cc Dry-Rs Piper	HG-AUS-001	MLS	0,030	0,76	2,894	73,50
Austin Mini 1300Cc Dry-Rs Piper	HG-AUS-002	MLS	0,030	0,76	2,835	72,00
Austin Mini 1300Cc Round Bore	HG-AUS-003	MLS	0,030	0,76	2,835	72,00
Austin Mini 1300Cc Wet-Rs Piper	HG-AUS-004	MLS	0,030	0,76	2,894	73,50

BMW

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
BMW M10 1766/1990 '72-88	HG-BMW-001	MLS			3,681	93,50

Bombadier

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Bombardier DS650	HG-BOM-001	MLS			3,976	101,00

Citroën

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Citroën CS2400 2.3L 1973	HG-CIT-001	CFM-20	0,043	1,09	3,819	97,00

Datsun

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Datsun 2.0L 8V U20 '67-70	HG-DAT-001	Copper	0,063	1,60		
Datsun 240/260/280Z Non Turbo L28	HG-DAT-002		0,040	1,02	3,543	90,00
Datsun A12/A15	HG-DAT-002	Copper	0,063	1,60	3,110	79,00

Talbot

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Dodge-Brazil(Talbot Sunbeam) GT100	HG-DOD-001	CFM-21	0,059	1,50	3,504	89,00

Ferrari/Fiat

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Ferrari Dino Left	HG-FER-001	CFM-20	0,043	1,09	3,504	89,00
Ferrari Dino Right	HG-FER-002	CFM-20	0,043	1,09	3,504	89,00
Ferrari/Fiat Dino 2.0L	HG-FER-003	CFM-20	0,043	1,09	3,504	89,00
Ferrari/Fiat Dino 2.0L	HG-FER-004	CFM-20	0,043	1,09	3,465	88,00
Ferrari/Fiat Dino 2.0L	HG-FER-005	CFM-20	0,043	1,09	3,504	89,00
Ferrari/Fiat Dino 2.0L Left	HG-FER-006	CFM-20	0,043	1,09	3,504	89,00

Ford

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Ford Cosworth YB	HG-FOR-001	CFM-20	0,040	1,02	3,681	93,50
Ford Cosworth YB	HG-FOR-002	MLS	0,040	1,02	3,701	94,00
Ford Cosworth YB	HG-FOR-003	MLS	0,051	1,30	3,701	94,00
Ford Cosworth YB	HG-FOR-004	MLS	0,080	2,03	0,176	94,00
Ford Cosworth YB	HG-FOR-006	MLS	0,051	1,30	3,720	94,50
Ford Cosworth YB	HG-FOR-008	MLS	0,051	1,30	3,819	97,00
Ford Cosworth YB	HG-FOR-010	MLS	0,030	0,76	3,543	90,00
Ford Essex V6 4L	HG-FOR-005	CFM-20	0,059	1,50	3,760	95,50
Ford Essex V6 4L	HG-FOR-007	CFM-20	0,059	1,50	3,760	95,50
Ford Essex V6 4L	HG-FOR-009	CFM-20	0,043	1,09	3,819	97,00
Ford Essex V6 4L	HG-FOR-011	CFM-20	0,059	1,50	3,819	97,00
Ford Essex V6 4L	HG-FOR-012	CFM-20	0,059	1,50	3,898	99,00
Ford Pinto (Based On C4350-040)	HG-FOR-013	MLS	0,040	1,02	3,976	101,00
Ford Pinto SOHC 2.0L	HG-FOR-014	MLS	0,120	3,05	3,720	94,50
Ford Pinto SOHC 2.0L	HG-FOR-015	MLS	0,051	1,30	3,701	94,00
Ford Pinto SOHC 2.0L w/Wills Rings	HG-FOR-016	MLS	0,045	1,14	3,681	93,50
Ford Pinto SOHC 2.0L	HG-FOR-017	MLS	0,040	1,02	3,976	93,50
Ford Pinto SOHC 2.0L	HG-FOR-018	MLS	0,040	1,02	3,976	94,50
Ford Pinto SOHC 2.0L	HG-FOR-019	MLS	0,040	1,02	3,976	96,00

Gilera

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Gilera Piuma/Saturno	HG-GIL-001	MLS	0,040	1,02	4,016	102,00
Gilera Piuma/Saturno	HG-GIL-002	MLS	0,040	1,02	0,000	

Lamborghini

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Lamborghini 5.2L Countach QV Left	HG-LAM-001	CFM-20	0,059	1,50	3,307	84,00
Lamborghini 5.2L Countach QV Right	HG-LAM-002	CFM-20	0,059	1,50	3,189	81,00

Lancia

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Lancia Aurelia 2500 V6	HG-LAN-001	CFM-20	0,043	1,09	3,189	81,00
Lancia Aurelia B20	HG-LAN-002	CFM-20	0,043	1,09	3,346	85,00
Lancia Delta	HG-LAN-003	MLS	0,040	1,02	3,307	84,00
Lancia Delta 8V + 16V	HG-LAN-004	MLS			3,307	84,00
Lancia Flaminia	HG-LAN-005	CFM-20	0,043	1,09	3,189	81,00
Lancia Flaminia 2500	HG-LAN-006	CFM-20	0,043	1,09	3,189	81,00
Lancia Flaminia 2500	HG-LAN-007	CFM-20	0,059	1,50	3,465	88,00
Lancia Flaminia 2800	HG-FER-005	CFM-20	0,043	1,09	3,386	86,00
Lancia Flaminia 2800	HG-LAN-009	CFM-20	0,043	1,09	3,543	90,00
Lancia Flavia 2000 (2 required)	HG-LAN-010	CFM-20	0,043	1,09	3,543	90,00
Lancia Flavia 2000 (2 required)	HG-LAN-011	CFM-20	0,059	1,50	3,543	90,00
Lancia Flavia 1500 (2 required)	HG-LAN-011	CFM-20	0,059	1,50	3,268	83,00
Lancia Fulvia	HG-LAN-013	CFM-20	0,040	1,02	3,110	79,00
Lancia Fulvia 1400?	HG-LAN-014	CFM-20	0,043	1,09	3,287	83,50
Lancia Fulvia 1600	HG-LAN-015	CFM-20	0,043	1,09	3,189	81,00
Lancia Fulvia 1600	HG-LAN-016	CFM-20	0,043	1,09	3,268	83,00
Lancia Fulvia Stroker 2Nd Design	HG-LAN-017	CFM-20	0,043	1,09	3,386	86,00
Lancia/Fiat 8/16V 12mm Stud	HG-LAN-018	MLS			3,386	86,00
Lancia/Fiat Delta/T	HG-LAN-019	MLS	0,040	1,02	3,386	86,00

Lotus

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Lotus 4Cyl	HG-LOT-001	MLS	0,040	1,02	3,898	99,00
Lotus 4Cyl (Twin Cam not em-bossed)	HG-LOT-002	MLS	0,040	1,02	3,898	84,00



HEAD GASKETS

Maserati

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Maserati 1967 V8 Left Bank	HG-MAS-001	CFM-20	0,043	1,09	3,780	96,00
Maserati 1967 V8 Right Bank	HG-MAS-002	CFM-20	0,043	1,09	3,366	85,50
Maserati 3500 Dohc	HG-MAS-003	CFM siamese power ring H/G	0,043	1,09	3,780	96,00

MG

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
MGA Twin Cam	HG-MGA-001	CFM-20	0,043	1,09	3,228	82,00
MGB 4 Cyl 1975-80	HG-MGB-001	CFM-20	0,040	1,02	3,287	83,50
MGB 4 Cyl 1975-80	HG-MGB-002	MLS	0,030	0,76	3,287	83,50
MGB 4 Cyl 1975-80	HG-MGB-003	MLS	0,040	1,02	3,366	85,50
MGC Inline 6 (3 Required)	HG-MGC-001	Copper	0,063	1,60	3,366	85,50
MGC Inline 6 (Use W/ H1468SP3063C)	HG-MGC-002	CFM-20	0,059	1,50	3,665	93,10

Opel/Vauxhall

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Opel CIH	HG-OPE-001	MLS	0,075	1,91	3,839	97,50
Opel CIH	HG-OPE-002	MLS	0,066	1,68	3,780	96,00
Opel CIH	HG-OPE-003	MLS	0,060	1,52	3,839	97,50
Opel CIH	HG-OPE-004	MLS	0,066	1,68	3,839	97,50
Opel CIH	HG-OPE-005	MLS	0,070	1,78	3,839	97,50
Opel CIH	HG-OPE-006	MLS	0,040	1,02	3,839	97,50
Opel CIH	HG-OPE-007	MLS	0,051	1,30	3,858	98,00
Opel CIH	HG-OPE-008	MLS	0,030	0,76	3,858	98,00
Opel CIH	HG-OPE-009	MLS	0,036	0,91	3,858	98,00
Opel CIH	HG-OPE-010	MLS	0,040	1,02	3,858	98,00
Opel CIH	HG-OPE-011	MLS	0,045	1,14	3,858	98,00
Opel CIH	HG-OPE-012	MLS	0,051	1,30	3,858	98,00
Opel CIH	HG-OPE-013	MLS	0,060	1,52	3,858	98,00
Opel CIH	HG-OPE-014	MLS	0,070	1,78	3,858	98,00
Opel CIH	HG-OPE-015	MLS	0,080	2,03	3,465	88,00
Opel/Vauxh. 1.6L 16V	HG-OPE-016	MLS	0,051	1,30	3,110	79,00
Opel/Vauxh. 1.6L 16V	HG-OPE-017	MLS	0,051	1,30	3,150	80,00
Vauxhall 16 Valve 2L	HG-OPE-018	MLS	0,120	3,05	3,406	86,50
Vauxhall/Opel 1.6L 8V	HG-OPE-019	MLS	0,070	1,78	3,150	80,00

Packard

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Packard Twin Six 1916	HG-PAC-001	CFM-20 / Siamesed copper	0,059	1,50	4,016	102,00

Porsche

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Porsche 944 2.7/3.0Liter	HG-POR-001	MLS	0,040	1,02	3,976	101,00
Porsche 944 2.7/3.0Liter	HG-POR-002	MLS	0,040	1,02	4,094	104,00

Rover

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Rover K 1.9L 94-02 K-series	HG-ROV-001	MLS	0,036	0,91	3,228	82,00
A Series	HG-ROV-002	MLS	0,030	1,02	2,854	72,50
A Series	HG-ROV-003	MLS	0,040	1,02	2,854	72,50
A Series	HG-ROV-004	MLS	0,040	1,02	2,894	73,50
B Series	HG-ROV-005	MLS	0,040	1,02	3,307	84,00

HEAD GASKETS

TVR

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
TVR Speed Eight AJP-8 Left	HG-TRV-001				3,583	91,00
TTVR Speed Eight AJP-8 Right	HG-TRV-002				3,583	91,00
TVR Speed Six, AJP-6	HG-TRV-003	MLS	0,060	1,52	3,878	98,50
TVR Speed Eight AJP-8 Left	HG-TRV-004				3,465	88,00
TVR Speed Eight AJP-8 Left	HG-TRV-005				3,465	88,00
TVR Speed Eight AJP-8 Left	HG-TRV-006				3,583	91,00
TVR Speed Eight AJP-8 Right	HG-TRV-007				3,465	88,00
TVR Speed Eight AJP-8 Right	HG-TRV-008				3,465	88,00
TVR Speed Eight AJP-8 Right	HG-TRV-009				3,583	91,00

Volvo

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Volvo B19. B200 B21 240.740.94	HG-VOL-001	MLS	0,051	1,30	3,642	92,50
Volvo B19. B200. B21. 240.740.94	HG-VOL-002	MLS	0,051	1,30	3,661	93,00
Volvo B20A/E/F	HG-VOL-003	CFM-20	0,059	1,50	3,701	94,00
Volvo B20A/E/F '68	HG-VOL-004	MLS	0,075	1,91	3,720	94,00
Volvo B21	HG-VOL-005	MLS	0,051	1,30	3,937	100,00
Volvo B23 '78-98	HG-VOL-006	MLS	0,045	1,14	3,583	100,00
Volvo B30 Inline 6	HG-VOL-007	CFM-20	0,043	1,09	4,843	123,00

Wolsely

Application	Part#	Material	Thickness (inch)	Thickness (mm)	Gasket bore (inch)	Gasket bore (mm)
Wolsely 48/12 1938	HG-WOL-001	Copper	0,063	1,60		
Wolsely 48/12 Exhaust Flange	HG-WOL-002	Exhaust material	0,064	1,63		
Wolsely 48/12 Intake/Exhaust	HG-WOL-003	Exhaust material	0,059	1,50	4,016	102,00





CALCULATING COMPRESSION RATIO

$$CR = \frac{\text{SWEPT VOL.} + \text{TDC VOL.}}{\text{TDC VOL.}}$$

Swept Volume = $3.1416 \times \text{Bore} \times \text{Bore} \times \text{Stroke} \div 4$

TDC Volume = Cylinder Head Volume + Gasket Volume + Deck Volume + Piston Dish (-Dome) Volume

Gasket Volume = $3.1416 \times \text{Gasket Bore} \times \text{Gasket Bore} \times \text{Compressed Gasket Thickness} \div 4$

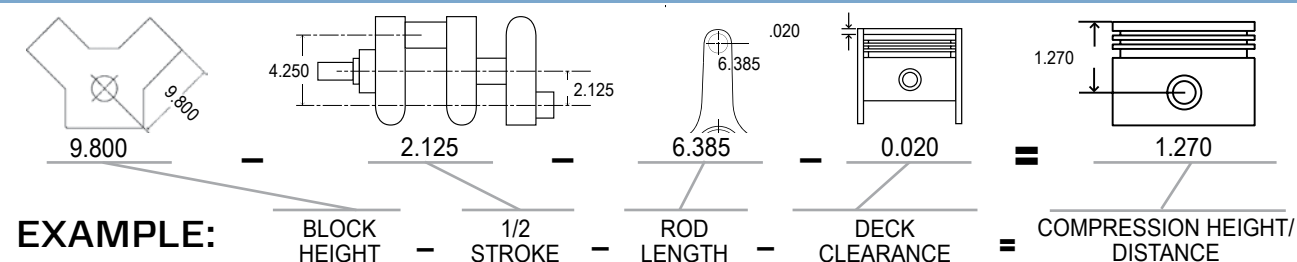
Deck Volume = $3.1416 \times \text{Bore} \times \text{Bore} \times \text{Deck Clearance} \div 4$

Piston volume = as published in JE catalog x -.061

Head volume = as published in cc's x .061

Always use cc's or ci's, do not mix the two. To convert cc's to ci's multiply cc's by .061

CALCULATING COMPRESSION HEIGHT/DISTANCE



PISTON/DOME TO HEAD AND SPARK PLUG CLEARANCE

Always check piston/dome to head and spark plug clearance to assure proper clearance (See fig.1). Minimum clearance for steel rod = .040", aluminum = .060". Check using clay with piston installed on rod at TDC, be sure to rock the piston back and forth in the bore to get total minimum running clearance.

CRANK COUNTERWEIGHT TO PISTON CLEARANCE

Always check crank counterweight to piston clearance at BDC. Recommended minimum is .060".

CONNECTING ROD TO PISTON CLEARANCE

Due to the large variation in rod widths and material thickness above pin, always check for proper piston to rod clearance on OEM, aftermarket steel rods and aluminum rods. Recommended clearance is .050" min per side and .050" min from top of rod to piston. With the piston installed on the rod, rock the piston side to side and rotate forward and backward to ensure proper clearance. See figure 2.

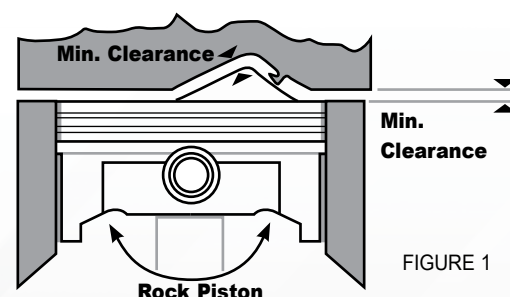


FIGURE 1

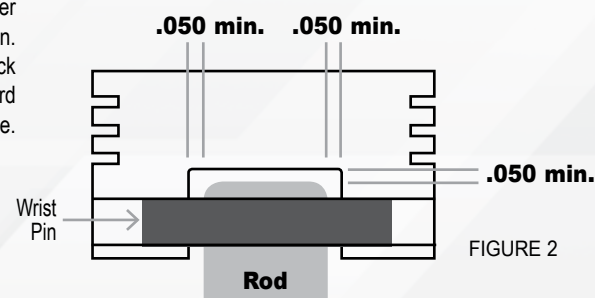


FIGURE 2

PISTON TO VALVE CLEARANCE

Piston to valve clearance is determined by cam lift, lobe separation, duration, valve margin, head design, and aftermarket milling of cylinder head. Minimum recommended clearance for intake & exhaust valve is .100" in depth and .050" radially. Check by using clay or follow cam manufacturers recommendations for checking clearance, making sure the cam is degreed exactly as it will be during operation.



HOW TO

Convert from Cubic Centimeters to Cubic Inches

Multiply **by .0610237**

Example **1835cc x .0610237= 111.98**

Convert from Cubic Inches to Cubic Centimeters

Multiply **by 16.387064**

Example **350ci x 16.387064= 5735.47**

Convert from Inches to Millimeters

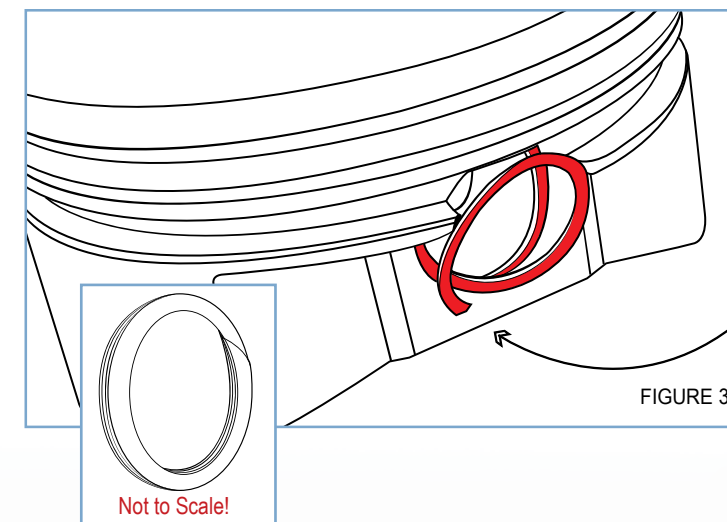
Multiply **by 25.4**

Example **3.189 x 25.4= 81.00mm**

Convert from Millimeters to Inches

Multiply **by .0393701**

Example **81mm x .0393701= 3.1889**



INSTALLING ROUND WIRE LOCKS

Using the 4 o'clock position of the pick lock groove as a reference, install one end of the lock at 1 o'clock. (The end gap of the lock should span from 1 o'clock to 3 o'clock) Position the rest of the lock as close to the wrist pin hole as possible. Insert a pick lock tool or small screwdriver into the pick lock groove and leverage the lock into place. Once the first lock is in place, install the wrist pin. Seat the lock by placing a brass or aluminum drift against the pin and strike the drift firmly with a hammer. Perform this function on a cloth towel or soft rubber pad to prevent damage to the piston. Remove the pin and re-install with the connecting rod attached. Install and seat the second lock using the same procedure, then re-seat each lock a second time.

INSTALLING SPYRO LOCKS

Begin with the leading tip of the lock in the 12 o'clock position. Insert your thumb through the center of the lock and hook it under your thumbnail at the 10 o'clock position (roughly 1/2" to the left of the leading tip). Install the leading tip into the 11 o'clock position of the groove. (If the wrist pin hole intersects the oil ring groove, lock installation is slightly more difficult as the lock will catch on the bottom ring land) The leading edge of the lock should catch in the groove allowing it to stay on its own. Continue installing the lock by applying pressure in a circular, counter-clockwise motion (fig. 3) until it fully snaps into place. Most JE Pistons are made for double Spiro Locks, requiring 4 locks per piston (two at each end of the pin). For pistons made to accept Round Wire Locks, see the installation instructions below. The correct number of Spiro Locks must be installed in each piston or severe engine damage may occur. Do not over-stretch or re-use Spiro Locks. Do not install Spiro Locks in press-fit pin applications.



FREQUENTLY ASKED QUESTIONS

1. Are your pistons forged?

Yes. All JE and SRP pistons are forged in the U.S.A. at a state-of-the-art facility in either 2618 or 4032 high-purity aluminum alloy.

2. Why do I have an extra set of Spiro Locks?

You don't! JE/SRP supplies double Spiro Locks (4 per piston) with most shelf-stocking pistons. Some of our pistons use different lock types such as round wire locks, single Spiro Locks, Tru-Arc locks or buttons. To verify which lock type your piston requires, find the part number in the catalog and refer to the description at the top of the section.

3. What is the difference between JE & SRP?

The SRP product line is manufactured as shelf-stocking only. Custom SRP pistons are NOT available. The "net" forgings used for SRP pistons are designed to reduce manufacturing time. Since time is money, you win by paying less money for a quality part.

4. Are rings included with your pistons?

Since there are so many ring options, we do not include them with our pistons. We believe the customer should have the benefit of choosing which rings best suit their specific application. Options include High Performance Sportsman rings, Premium Race Series rings and Nitrous Series rings, among others.

5. How much lift will your piston take?

There are many variables that affect piston to valve clearance. In general, the valve pocket depths will provide sufficient clearance for most flat-tappet and hydraulic roller camshafts. Please refer to the tech page for procedures on checking piston to valve clearance.

6. What is the number on the underside of the piston?

The number on the bottom is simply a raw forging number. It does not contain specific information about the finished part, only what family the raw forging is from. In order to give you specific information on a finished part, the part number or job number is required. This is a six-digit number that is laser-etched into the bottom of the pin tower if your pistons were produced after late 2004. If produced prior to this time, the number will appear on the box the pistons came in, the spec sheet that came in the box and the packing slip/invoice that accompanied the shipment. If none of these are available, call us with the critical measurements and we can help you determine which piston you have. Or, if you prefer, send one of the pistons to us and we will identify it for you at no charge (freight not included).

7. How do I get a printed catalog from one of your other product lines?

Email us at info@jepistons.com, or call 714-898-9763 and we will send you one.

8. What kind of ring end gap should I run?

We supply ring spec sheets with all of our ring sets which include end gap recommendations. If you misplace it, or would like specific gap recommendations for your combination, our experienced and helpful sales and technical staff can help you.

9. How do I know my piston to wall clearance, and where do I get the measurement?

A piston spec sheet comes in each box of JE and SRP pistons to use as a guideline for piston to wall clearances. In most cases, the gauge point is .500" above the bottom of the skirt. The clearance given on the spec sheet is a recommended minimum, more clearance should be added for turbo, supercharged, nitrous, marine, endurance or filled block applications. Our experienced and helpful sales and technical staff can answer any questions you may have.

FORMULA FOR MPH

MPH = TIRE RADIUS ÷ 168 X ENGINE RPM ÷ GEAR RATIO

Example: What MPH at 6500 RPM with a 4.9 rear axle and 14 inch radius tire in 4th (1:1) gear?
MPH = 14 ÷ 168 x 6500 ÷ 4.90 ÷ 1 = 111 MPH

Example: In 3rd gear (1.34)?

MPH = 14 ÷ 168 x 6500 ÷ 4.90 ÷ 1.34 = 83 MPH

Note: Tire Radius is distance, in inches, from center of wheel to top of the tire.
Note: Gear Ratio is Rear Axle ratio divided by transmission Gear Ratio.

FORMULA FOR RPM

RPM = 168 X GEAR RATIO X MPH ÷ TIRE RADIUS

Example: Using the first example, what will be the RPM after shift from 3rd to 4th gear at 83 MPH?

RPM = 168 x 4.90 x 83 ÷ 14 = 4880 RPM

FORMULA FOR GEAR RATIO

GEAR RATIO = TIRE RADIUS X RPM ÷ 168 ÷ MPH

Example: Using the first example, what gear ratio is required for 120 MPH at 6500 RPM?
GR = 14 x 6500 ÷ 168 ÷ 120 = 4.51

FORMULA FOR TIRE RADIUS

TIRE RADIUS = 168 X MPH X GEAR RATIO ÷ RPM

Example: Using the first example, what tire radius for 120 MPH at 6000 RPM with a 4.11 gear?
168 x 110 x 4.11 ÷ 6000 = 12.7 inches

Note: Approximately a 25" diameter tire. Remember that the tire radius will be less during hard acceleration than when the vehicle is standing still. Also, radius will be greater at high speed due to tire expansion from centrifugal force.

FORMULA FOR HPQ

HPQ = (0.00426 X MPH)³ X WEIGHT

HPQ = Engine horsepower required to reach MPH in quarter mile

Note: understates HP required at speeds exceeding 100mph

Note: assumes engine HP must be 2 x the HP required at drive wheels

Example: What engine HP is required to achieve 110 MPH in a 3200 pound vehicle in 1/4 mile?

HPQ = (0.00426 x 110) x (0.00426 x 110) x (0.00426 x 110) x 3200 = 329 engine HP

FORMULA FOR HP AND TORQUE

HP = TORQUE X RPM ÷ 5252 • TORQUE = HP X 5252 ÷ RPM

Example: What torque is required to generate 329 HP at 6000 RPM?

T = 329 x 5252 ÷ 6000 = 288 foot pounds @ 6000 RPM

Example: What torque is required for 296 HP at 4880 RPM?

T = 296 x 5252 ÷ 4880 = 319 foot pounds @ 4880 RPM

FORMULA FOR CID (Cubic Inch Displacement)

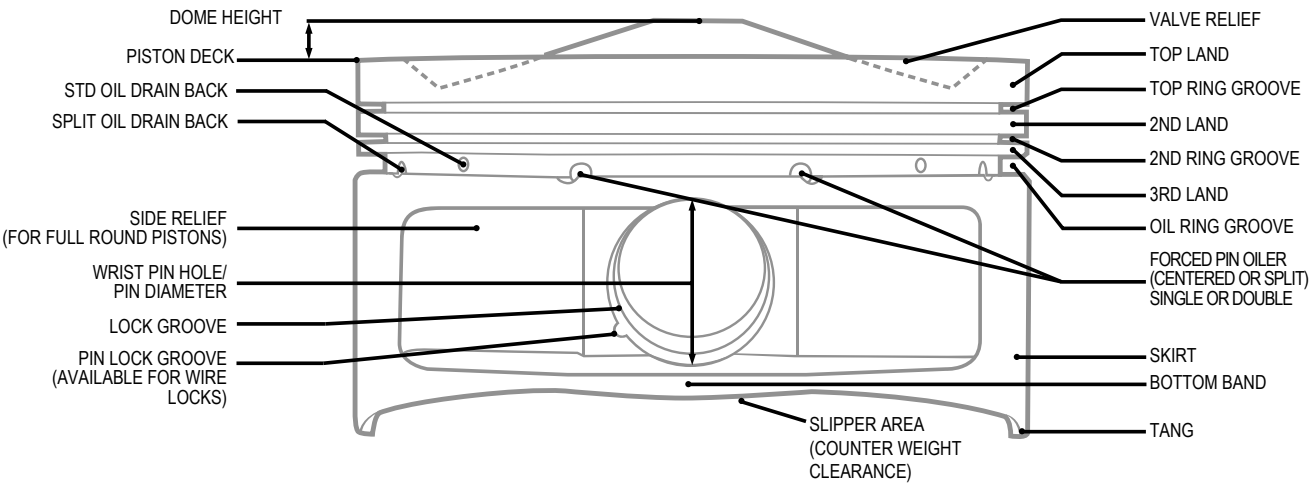
CID = NUMBER OF CYLINDERS X SWEEPED VOLUME

Note: CID = N x 0.7854 x bore x bore x stroke (all in inches)

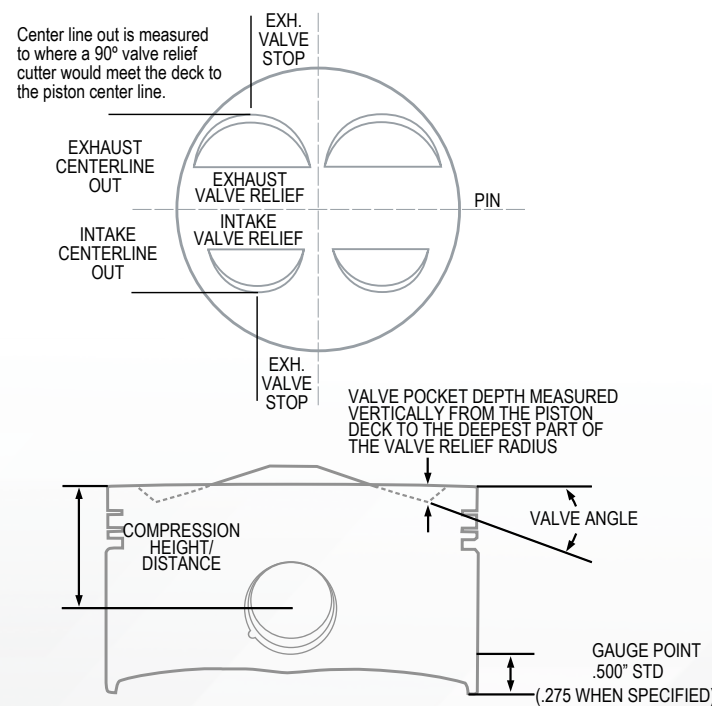
Example: What is CID of a V8 with a "30 over", 4 inch bore and 3.48 inch stroke?

CID = 8 x 0.7854 x 4.030 x 3.48 = 355 cu. inches

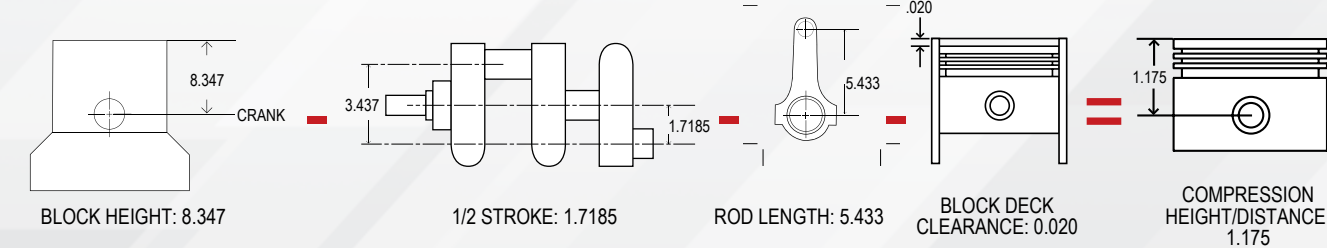
PISTON TERMINOLOGY



VALVE LOCATION TERMINOLOGY



COMPRESSION HEIGHT



PISTON TO WALL CLEARANCE

4032 ALLOY PISTONS		
	Bore Range	Min. Clearance
Sport Compact	2.500 to 3.625	.0022 to .0028
Sport Compact	3.626 to 3.999	.0025 to .0035
4032 ADDITIONAL CLEARANCE GUIDE LINES		
Drag Race	+ .0010 - .0020	
Turbo/Nitrous	+ .0005 - .0010	
Road Race	+ .0005 - .0010	
2618 ALLOY PISTONS		
	Bore Range	Min. Clearance
Sport Compact	2.500 to 3.625	.0025 to .0035
Sport Compact	3.626 to 3.999	.0030 to .0040
4032 ALLOY PISTONS		
Drag Race	+ .0010 - .0020	
Forced Induction/Nitrous	+ .0015 - .0025	
Turbo/Nitrous	+ .0015 - .0020	
Road Race	+ .0015 - .0025	

4032 vs. 2618/Forged Wrought Aluminum



Pistons manufactured from 4032 wrought aluminum alloy are designed for high performance applications where a strong and quiet piston is required. These pistons require less initial piston to wall clearance and are quieter at startup. The perfect street/street piston!

Physical Properties of 4032

Nominal Density	2.68 g/cc	.097 lb/in ³
-----------------	-----------	-------------------------

Mechanical Properties of 4032

Tensile Strength, Ultimate	380 MPa	55,000 psi
Tensile Strength, Yield	315 MPa	46,000 psi
Modulus of Elasticity	79 GPa	11,400 psi
Fatigue Endurance Limit	110 MPa	16,000 psi

Pistons manufactured from 2618 wrought aluminum alloy are designed for racing and very demanding applications. These environments necessitate the higher strength 2618 aluminum alloy.

Physical Properties of 2618

Nominal Density	2.81 g/cc	.100 lb/in ³
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Mechanical Properties of 2618

Tensile Strength, Ultimate	440 MPa	64,000 psi
Tensile Strength, Yield	370 MPa	54,000 psi
Modulus of Elasticity	74 GPa	10,400 psi
Fatigue Endurance Limit	125 MPa	18,000 psi

COEFFICIENT OF THERMAL EXPANSION

When exposed to heat, 2618 aluminum expands approximately 15% more than 4032, therefore the initial piston-to-wall clearance has to be 15% greater. This difference is most noticeable during a cold engine start. When cold, the 2618 piston can rock back and forth producing a slight noise (sometimes referred to as piston slap) until the aluminum expands. Both types of aluminum have approximately the same clearances once the pistons have expanded and the engine is running at operating temperatures.

COEFFICIENT OF THERMAL EXPANSION FOR 4032

Temperature Range		Average Coefficient	
°C	°F	µm/m · K	µin/in · °F
20 to 200	68 to 392	20.2	11.2

EXAMPLE:

When measured at room temperature, a piston designed for a 4.000" bore might measure 3.9966.

If the same piston were measured at 375 degrees F, the piston would measure 4.000".

COEFFICIENT OF THERMAL EXPANSION FOR 2618

Temperature Range		Average Coefficient	
°C	°F	µm/m · K	µin/in · °F
20 to 200	68 to 392	23.2	12.9

EXAMPLE:

When measured at room temperature, a piston designed for a 4.000" bore might measure 3.9960.

If the same piston were measured at 375 degrees F, the piston would measure 4.000".

PISTON TO CYLINDER WALL CLEARANCE

Piston to cylinder wall clearance for 4032 Alloy:

1. Piston diameter must be measured at gauge point which, in most cases, is 12,7 mm up from the bottom of skirt.
Dimensions listed are gauged at a temperature of 20 degrees C. Note: aluminum expands and contracts with temperature variations.
2. Your pistons are manufactured from 4032 high silicon aluminum alloy.
3. Clearance is built into piston based upon finished bore for normal operating conditions.
4. Clearances listed below are minimum. Some applications such as supercharged, turbo, nitrous and endurance applications may require 0,025-0,076 mm to be added to the minimum clearances. Cold water pickup marine applications may require an additional 0,051-0,102 mm clearance.

Bore Range Min. Clearance Sport compact:

63,50-92,00 mm = 0,050-0,064 mm
92,00-101,60 mm = 0,063-0,076 mm

Piston to cylinder wall clearance for 2618 Alloy:

1. Piston diameter must be measured at gauge point which, in most cases, is 12,7 mm up from the bottom of skirt.
Dimensions listed are gauged at a temperature of 20 degrees C. Note: aluminum expands and contracts with temperature variations.
2. Your pistons are manufactured from 2618 low-silicon aerospace aluminum alloy.
3. Clearance is built into piston based upon finished bore for normal operating conditions.
4. Clearances listed below are minimum. Some applications such as supercharged, turbo, nitrous and endurance applications may require 0,025-0,076 mm to be added to the minimum clearances. Cold water pickup marine applications may require an additional 0,051-0,102 mm clearance.

Bore Range Min. Clearance Sport compact:

63,50-92,00mm = 0,076-0,089 mm
92,00-101,60mm = 0,089-0,102 mm



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