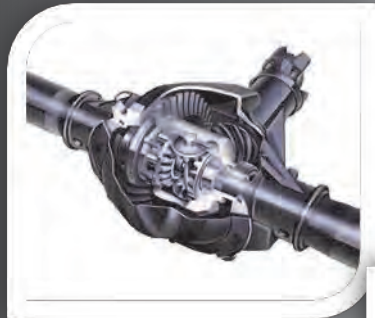




Tobar, Inc.

Seals for Industry



Oil Seal catalog



ISO 9001
certified

Our mission

is to provide imported and domestic sealing components to our customers **on time**, with **100% conformance to specifications**, at a **competitive price**.

We also want to be recognized by our customers as a supplier that **responds quickly to requests**, implements **continuous improvement** programs, and takes a **preemptive approach** to potential problems.

Tobar employees are committed to treating our customers, our suppliers, and each other with **respect and honesty**.

We strive for a reputation of being our customers' **number one seal supplier** and their **best overall supplier**.



Tobar oil seal end customers range from independent shops to Fortune 500 companies. Since our beginning in 1987, customers have relied on Tobar's inventory model to keep their production lines and aftermarket kitting operations stocked with quality seals. Many customers refer to Tobar as their "benchmark" supplier. Tobar supplies seals to world class PPM rates, on time, at competitive prices.

Tobar, Inc. is located in Columbus, Indiana. Our 30,000 square foot facility features an inspection/investigation oil seal laboratory, general offices, collaboration center, and climate controlled warehouse.

Our internal quality system began at our inception. Tobar's commitment to quality continued by gaining QS 9000 certification in 1996. Tobar earned ISO certification in 2005. Our internal systems have been developed to meet the most stringent OEM quality and PPAP standards. Tobar's oil seal investigation team is up to the challenge of solving difficult seal problems using our experience and investigation tools. Our oil seals have been tested by Tobar and our customers. Tobar oil seals have exhibited superior performance when tested against the competition.

We are confident that you will discover the value we add and the confidence we instill when supplying your oil seal needs. For over 30 years we have built personal relationships with our customers and suppliers. Our "MIP-IT" (Make It Personal) philosophy is applied to problem solving, quality control, technical assistance, and customer service. Give us a chance to show you why the Tobar way of "Making It Personal", has results beyond expectations.

Make It
MIP-IT
Personal

When choosing Tobar oil seals, our commitment is that you will be able to agree with us when we say: "Relax, you're in for a smooth ride with TobarSM."

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Tobar

you're

in for a

smooth







ride with

Tobar.SM

classification

of sealing lip types

2^A






Type	Style	Characteristics
S		<p>Type S style oil seals are a single spring loaded sealing lip design that is used to seal internal media.</p> <p>Limitations: Peripheral Speed: 40 feet/second Temperature: 225°F 4.25 Pressure: PSI</p>
T		<p>Type T style oil seals are a double sealing lip design. The main lip is spring loaded and seals internal media, while the auxiliary lip provides protection from dirt.</p> <p>Limitations: Peripheral Speed: 32 feet/second Temperature: 225°F 4.25 Pressure: PSI</p>
V		<p>Type V style oil seals are a non-spring loaded, single sealing lip design for sealing internal media. The lip design is suitable for sealing grease and protecting against dirt. The V style can be used in conjunction with other types of seals.</p> <p>Limitations: Peripheral Speed: 26 feet/second Temperature: 225°F Pressure: 0 PSI</p>
K		<p>Type K style oil seals are also a non-spring loaded, double sealing lip design. The flexible sealing element is used to seal both internal and external media while also providing protection from dirt.</p> <p>Limitations: Peripheral Speed: 16 feet/second Temperature: 225°F Pressure: 0 PSI</p>
D		<p>Type D style utilizes dual spring-loaded lips to seal both internal and external media. It is normally used to separate two different liquids. Grease is usually applied between the two lips for lubrication.</p> <p>Limitations: Peripheral Speed: 16 feet/second Temperature: 225°F 4.25 Pressure: PSI</p>
TX4		<p>Type TX4 style seals are designed for reciprocating motion and sealing pressurized media.</p> <p>Limitations: Reciprocating Speed: 1 foot/second Temperature: 225°F Pressure: 100 PSI</p>

classification

of case and O.D. structure

2B

Construction of Tobar Oil Seals

Type	Style	Characteristics
C		The C structure denotes a rubber-covered case. This design helps prevent rusting and corrosion of the metal case. It also helps prevent damage to the housing bore during assembly and compensates for thermal expansion. The C structure is recommended for, but not limited to aluminum housings.
B		The B structure denotes metal on the O.D. with a rubber lining covering the internal face of the steel case. Outside diameters can be plain metal, (with a coating treatment to prevent rust), ground (for more exact tolerances) or painted (to provide an improved seal in the bore). These types of structures are usually used for sealing when the shaft diameters are under 6 inches and for applications with possible corrosion problems.
B2		The B2 structure denotes metal on the O.D. of the seal. Outside diameters can be plain metal, (with a coating treatment to prevent rust), ground (for more exact tolerances) or painted (to provide an improved seal in the bore). These types of structures are usually used for sealing when the shaft diameters are under 6 inches and for steel or cast iron housing materials.
BR		The BR structure denotes metal on the O.D. with a rubber lining covering the internal and top face of the steel case. Outside diameters can be plain metal, (with a coating treatment to prevent rust), ground (for more exact tolerances) or painted (to provide an improved seal in the bore). These types of structures are usually used for sealing when the shaft diameters are less than 6 inches and allow for improved O.D. sealing ability.
A2		The A2 structure denotes seals that are reinforced with a second metal case. This type structure is very effective in applications where the shaft diameter is greater than 6 inches. This design can also be used on smaller shafts that need extra strength, or when special compounds are required.

*Tobar seals come standard with a chamfered edge; a curled edge (RD) can be specified.


























Note: Metal O.D. seals are supplied standard as stamped. In most cases, metal O.D. seals could be supplied with painted or ground O.D.'s.

3A




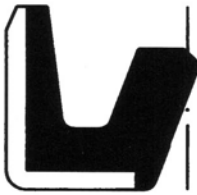












Types of Tobar Oil Seals

CASE AND O.D. STRUCTURE

LIP STYLE

	S Single Lip	T Double Lip	V Single Lip (w/o spring)	K Double Lip (w/o spring)	D Two Spring Lips
Type C	 SC	 TC	 VC	 KC	 DC
Type B	 SB	 TB	 VB	 KB	 DB
	 SB2	 TB2	 VB2	 KB2	 DB2
	 SBR	 TBR	 VBR	 KBR	 DBR
	 SA2	 TA2	 VA2	 KA2	 DA2




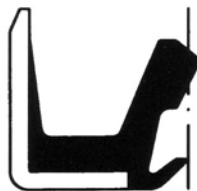




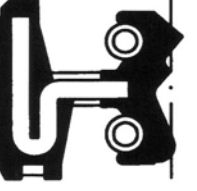









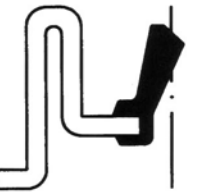
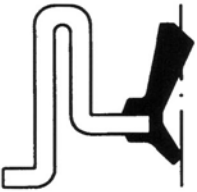
CASE AND O.D. STRUCTURE

		LIP STYLE				
		OTHER DESIGNS				
WIPER SEAL					<p><i>The wiper series is used primarily in reciprocating applications as a dirt excluder. Our most popular wiper is the WPB style. The WPB series is normally produced with a ground O.D. and 90-durometer nitrile material.</i></p>	
	GA	WPB	DKB	DWI		
TYPE W					<p><i>The W series is used in applications subject to wide variances in thermal expansion or for press fitting into a housing where installation is difficult.</i></p>	
	GC	WPC	DKC	DSI		
AGRICULTURE					<p><i>The agricultural designs are multi-lipped pre-lubed seals used in conjunction with wear sleeves to prevent dirt from entering the system.</i></p>	
	QA	QLF	TCFY	TCFA		
					<p><i>This series is to be used for large shaft to bore misalignment or excessive dynamic run-out.</i></p>	
	SCE	TCE	SBE	TBE		

SPECIAL STRUCTURES












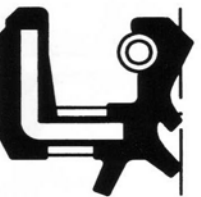





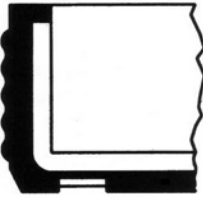
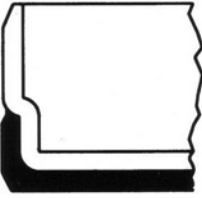
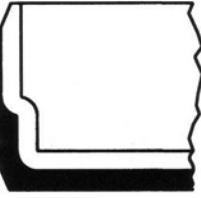
		LIP STYLE				OTHER DESIGNS
Type O						<p><i>The O design is for applications where the bore turns and the shaft is stationary.</i></p>
PRESSURE DESIGN						<p><i>The pressure seals are used in applications where pressure may range up to 1,422 PSI.</i></p>

CASE AND O.D. STRUCTURE

		LIP STYLE				OTHER DESIGNS	
Type 3					<p><i>The Type 3 design has a grease cavity and will allow for pre-lubrication of the seal. The secondary lip will also allow for dirt exclusion.</i></p>		
	TC3	TB3	TA3	KB3			
	Type 4						<p><i>The Type 4 design is used for linear applications.</i></p>
		TC4	TB4	TC4L		TC4P	
							
	DC4	DC4Y	TC42 (rotary)	TC40 (rotary)			
Type 5					<p><i>The Type 5 design is designed for applications where additional rigidity is needed and restricts the installation depth into the housing.</i></p>		
	SC5	TC5	VC5	KC5			
							
	SB5	TB5	VB5	KB5			

LIP STYLE

CASE AND O.D. STRUCTURE

Type 6					<p><i>The Type 6 design adds ease of installation and restricts the depth of installation.</i></p>
					
Type 7/9					<p><i>The Type 7/9 design is used in heavy-duty applications where dirt exclusion and outside sealing is required.</i></p>
Special					<p><i>The Special design allows for easy installation or replacement. It adds rigidity and restricts installation.</i></p>
End Cover					<p><i>The End Cover design protects bearings from contaminants.</i></p>



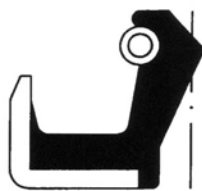



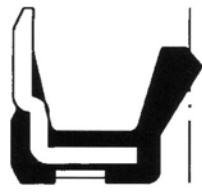


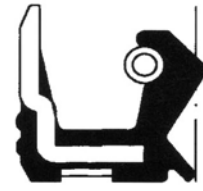
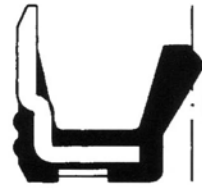







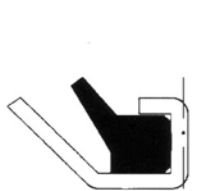
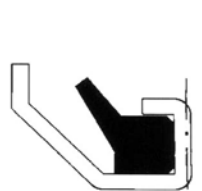
special applications

3B

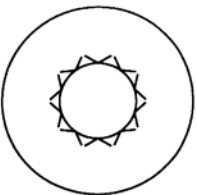
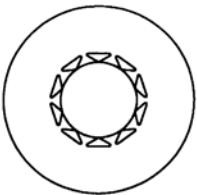
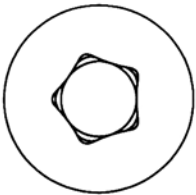
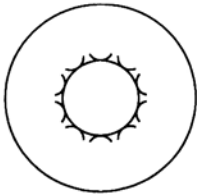
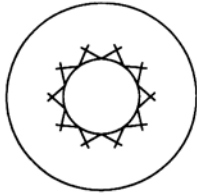
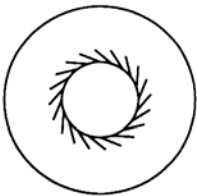
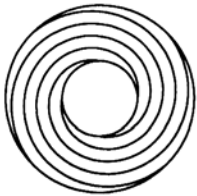
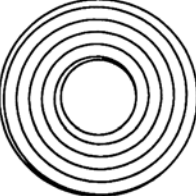


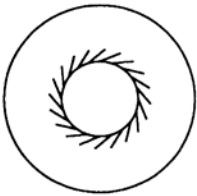
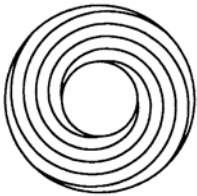
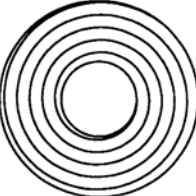


Types of Tobar Oil Seals

LIP STYLE

CASE AND O.D. STRUCTURE

Type Y	 SCY	 TCY	 BVY	 KBY	<i>The Type Y design is used for special applications where the seal lip and spring need to extend beyond the case</i>
Type BC	 SBC	 TBC	 VBC	 KBC	<i>Part metal/part rubber combines the installation advantages of rubber with the holding power of metal.</i>
	 SBCW	 TBCW	 VBCW	 KBCW	
Unique Seals	 TB14	 TB31	 TB95	 TA5Y	<i>Various unique seals.</i>
Axial Counterface	 VA	 VS	 R	 9R	<i>Axial Counterface Seals.</i>

LIP STYLE

CASE AND O.D. STRUCTURE		LIP STYLE				
		STANDARD HO	H1	H2	H3	H4
Bi-Directional	Clock-wise					
	Counter Clock-wise					
	Counter Clock-wise					

HELIX DESIGNS

The uni-directional Helix design provides ribs along the seal lip on the air side. This design is used exclusively for shafts rotating in one direction. The ribs function as pumping veins that force any fluid passing under the seal lip back onto the fluid side of the seal. This design has been accepted as a standard in many automotive transmission applications. In specifying an uni-directional Helix, the shaft rotation should be described as clockwise or counter-clockwise when viewing the shaft from the primary lip side of the seal. A caution for the uni-directional Helix should be noted; if the shaft rotates in the reverse direction, the Helical ribs will act as a pump and force fluid past the seal lip onto the air side of the seal.

A bi-directional Helix design incorporates triangular shaped wedges beneath the seal lip on the airside of the seal's contact edge. These wedges provide the same pumping action as the uni-directional Helix. This configuration, however, does not permit as many pumping veins on the seal surface and therefore is not as effective as the uni-directional Helix.

Our helix designs are specifically engineered to provide the return pumping action during shaft rotation and have the ability to seal while the shaft is stationary.

materials

and elastomer selection

4B

Tobar oil seals are available in a complete offering of metal case materials, spring materials, and elastomeric compounds. Selection of the elastomeric compound is critical to the performance and life of the seal. Within each compound family there are custom formulations that address temperature requirements, abrasive applications, pressure requirements, and low friction applications. Over 100 different elastomeric compounds are available. Seal design must address temperature, fluid compatibility, shaft speed, shaft finish, application requirements, and of course cost effectiveness. Materials are organized in cost impact order. The most economical options are listed first.

Nitrile (Buna-N), Lip Code 2

Tobar's Nitrile Code 2 is 70 durometer and is the most commonly used seal element we produce. It has excellent chemical compatibilities with a wide range of petroleum based products, water, and gases. It is recommended for automatic transmission fluid Type A, engine oils, greases, both fresh and salt water, fuel oil, kerosene, Methane, and petroleum based hydraulic oils.

Nitrile is not recommended for brake fluids, Ketones, Phosphate Esters, and Trichlorethylene. The recommended operating temperature range for this material is -40° to $+225^{\circ}$ F. Extended temperature range of 250° F for short term only.

Nitrile (Buna-N), Lip Code 3

This Nitrile is a 80 durometer material used where running friction and pressure may be a consideration. This compound has the same basic chemical compatibility as that of lip code 2, and an operating temperature of -40° to $+225^{\circ}$ F. Extended temperature range of 250° F for short term only.

Nitrile (Buna-N), Lip Code 4

This Nitrile is a 90 durometer, high abrasion resistant elastomer used primarily for hydraulic cylinder wiper applications. This compound has the same basic chemical compatibilities as that of Lip Code 2, and has an operating temperature range of -40° to $+225^{\circ}$ F. Extended temperature range of 250° F for short term only.

Polyacrylate, Lip Code PA

Polyacrylate has similar chemical compatibilities to Nitrile, with a higher temperature of -29° to $+300^{\circ}$ F. Polyacrylate is recommended for automatic transmission fluid Type A, engine oils, and many other petroleum based fluids. It has excellent compatibility with EP Lubes, and has

higher resistance to oxidation and ozone than that of Nitriles. Polyacrylate is not recommended for gasoline, water, Phosphate Esters, and Methane.

Silicone, Lip Code S

Silicone seals are recommended for the widest temperature range and are able to function successfully from -50° to $+325^{\circ}$ F. Tobar Silicone seals are compounded for compatibility with petroleum based products and are recommended for use in materials such as automatic transmission fluid Type A, engine oils, greases, water, Ethanol, Methanol, and petroleum based hydraulic fluids. Silicone is not recommended for EP Lubes, brake fluids, fuel oil and gasoline. Silicone has excellent low friction properties. It lacks the tear strength necessary for abrasive applications.

Fluoroelastomers (Viton*), Lip Code V

Fluoroelastomer seals have the widest range of chemical compatibility combined with temperature range of -40° to $+400^{\circ}$ F. It is compatible with virtually all petroleum based fluids including automatic transmission fluids, fuel oil, gasolines, Freons, brake fluids, Phosphate Esters, Ketones, and Trichlorethylene. Additionally, Viton has excellent mechanical properties and provides a superior seal element in the face of abrasive environments. Viton is not recommended for ammonia gases and Methyl Chloride. Viton is a trade name of the duPont Company.

Miscellaneous Elastomers

Tobar, Inc. has the capability of developing variations of our rubber compounds to meet your specific oil seal application requirements. Our specially developed compounds include HNBR's, high and low temperature Nitrile, and other variations, Fluorocarbon, Polyacrylate and Silicone compounds.

Metal Case Materials

Tobar's standard outer and inner metal cases are produced from formed cold-rolled steel. These cans may be treated and oiled to prevent corrosion during transportation and storage. Tobar will furnish cases in steel, stainless steel, or brass, depending on customer application.

Spring Materials

Tobar's standard spring material is hard drawn carbon steel wire. These springs are oiled and treated to protect them against corrosion during transportation and storage. If the seal's operating environment requires additional corrosion protection, Tobar will furnish oil seals with stainless steel springs.

material

compatibility chart

5A

Bore and Shaft Technical Information

STANDARD LIP MATERIALS	NITRILES (All Codes)	POLY-ACRYLATES (Code PA)	SILICONES (Code S)	FLUORO-ELASTOMER (Code V)
Temperature Range	-40° to 225°F (-40° to 107°C)	-15° to 300°F (-26° to 149°C)	-50° to 325°F (-45° to 163°C)	-15 to 400°F (-26° to 204°C)
Hardness	70/80/90 Shore	70/80 Shore	75/85 Shore	70/80 Shore
FLUID MEDIA				
Acetic Acid	Poor	Poor	Poor	Poor
Air	Excellent	Excellent	Excellent	Excellent
Ammonia Gas	Excellent	Poor	Good	Poor
ATF-Type A	Excellent	Excellent	Excellent	Excellent
Brake Fluid	Poor	Poor	Poor	Poor
Butane	Excellent	Excellent	Good	Excellent
Cellulube	Poor	Poor	Good	Good
Engine Oil	Excellent	Excellent	Excellent	Excellent
EP Lubes	Good	Excellent	Poor	Excellent
Ethanol	Excellent	Poor	Excellent	Poor
Freon 12	Excellent	Poor	Poor	Good
Fuel Oil	Excellent	Good	Poor	Good
Gasoline (lead and no lead)	Good	Poor	Poor	Excellent
Grease	Excellent	Good	Excellent	Excellent
MIL-G 10924	Excellent	Excellent	Poor	Excellent
MIL-L 2105-B	Good	Excellent	Poor	Good
MIL-L 5606	Excellent	Excellent	Poor	Excellent
MIL-L 6082-A	Excellent	Excellent	Excellent	Excellent
MIL-L 7808-E	Good	Poor	Excellent	Good
SAE-90	Excellent	Excellent	Poor	Excellent
SAE-30	Excellent	Excellent	Excellent	Excellent
Kerosene	Excellent	Good	Poor	Good
Ketones (MEK)	Poor	Poor	Poor	Poor
Methanol	Excellent	Poor	Excellent	Poor
Methyl Chloride	Poor	Poor	Poor	Excellent
Oxygen (cold)	Good	Excellent	Excellent	Excellent
Ozone	Poor	Poor	Excellent	Excellent
Perchlorethylene	Good	Poor	Poor	Excellent
Petro. Base				
Hydraulic Oil	Excellent	Excellent	Excellent	Excellent
Phosphate Ester	Poor	Poor	Excellent	Excellent
Pydraul	Poor	Poor	Excellent	Excellent
Silicone Oil	Excellent	Excellent	Poor	Excellent
Skydrol	Poor	Poor	Poor	Poor
Toluene	Poor	Poor	Poor	Good
Trichlorethylene	Poor	Poor	Poor	Excellent
Turpentine	Good	Poor	Poor	Excellent
WATER, Fresh or Salt	Excellent	Poor	Excellent	Excellent
Wine	Excellent	Poor	Excellent	Excellent

Oil Seal Standard Tolerances - Inches Single and Dual Lip Spring Loaded Bonded Seals							
Bore Diameter	Bore Tolerance	Nominal Press Fit Metal O.D.	Metal O.D. Tolerance (1)	Metal O.D. OOR (2)	Nominal Press Fit Rubber O.D.	Rubber O.D. Tolerance (3)	Rubber O.D. OOR
Up to 2.000	±.001	.005	±.002	.007	.008	±.003	.010
2.001 to 3.000	±.001	.0055	±.0025	.010	.010	±.003	.014
3.001 to 5.000	±.0015	.0065	±.003	.012	.0105	±.003	.020
5.001 to 7.000	±.0015	.007	±.003	.016	.012	±.004	.026
7.001 to 12.000	±.002	.0085	±.0035	.0025	.0125	±.004	.031
12.001 to 20.000	±.003	.012	±.005	in/in	.015	±.005	.039
20.001 to 40.000	±.004	.013	±.005	of seal	.018	±.006	.045
40.001 to 60.000	±.006	.016	±.006	O.D.	.020	±.007	.050

Oil Seal Standard Tolerances - mm Single and Dual Lip Spring Loaded Bonded Seals					
Nominal Bore Diameter	Bore Tolerance	Metal Cased	Tolerance		Tolerance
			Rubber Covered	Metal Cased	
Up to 50	+0.039 -0.0	+0.20 +0.08	+0.30 +0.15	0.18	0.25
51 to 80	+0.046 -0.0	+0.23 +0.09	+0.35 +0.20	0.25	0.35
81 to 120	+0.054 -0.0	+0.25 +0.10	+0.35 +0.20	0.30	0.50
121 to 180	+0.063 -0.0	+0.28 +0.15	+0.45 +0.25	0.40	0.65
181 to 300	+0.075 -0.0	+0.35 +0.15	+0.45 +0.25	0.25% of outside diameter	0.80
301 to 440	+0.089 -0.0	+0.45 +0.20	+0.55 +0.30	0.25% of outside diameter	1.00

- (1) Seal O.D.: The average of a minimum of three measurements to be taken at equally spaced positions.
- (2) Out of Round (OOR): The maximum variance between any of the readings used in determining seal O. D.
- (3) Rubber covered seals employing certain materials other than nitrile may require different tolerances.

Note: To guarantee positive installation of the seal in the bore, the axial length of the bore should always be equal to, or greater than the maximum seal width.

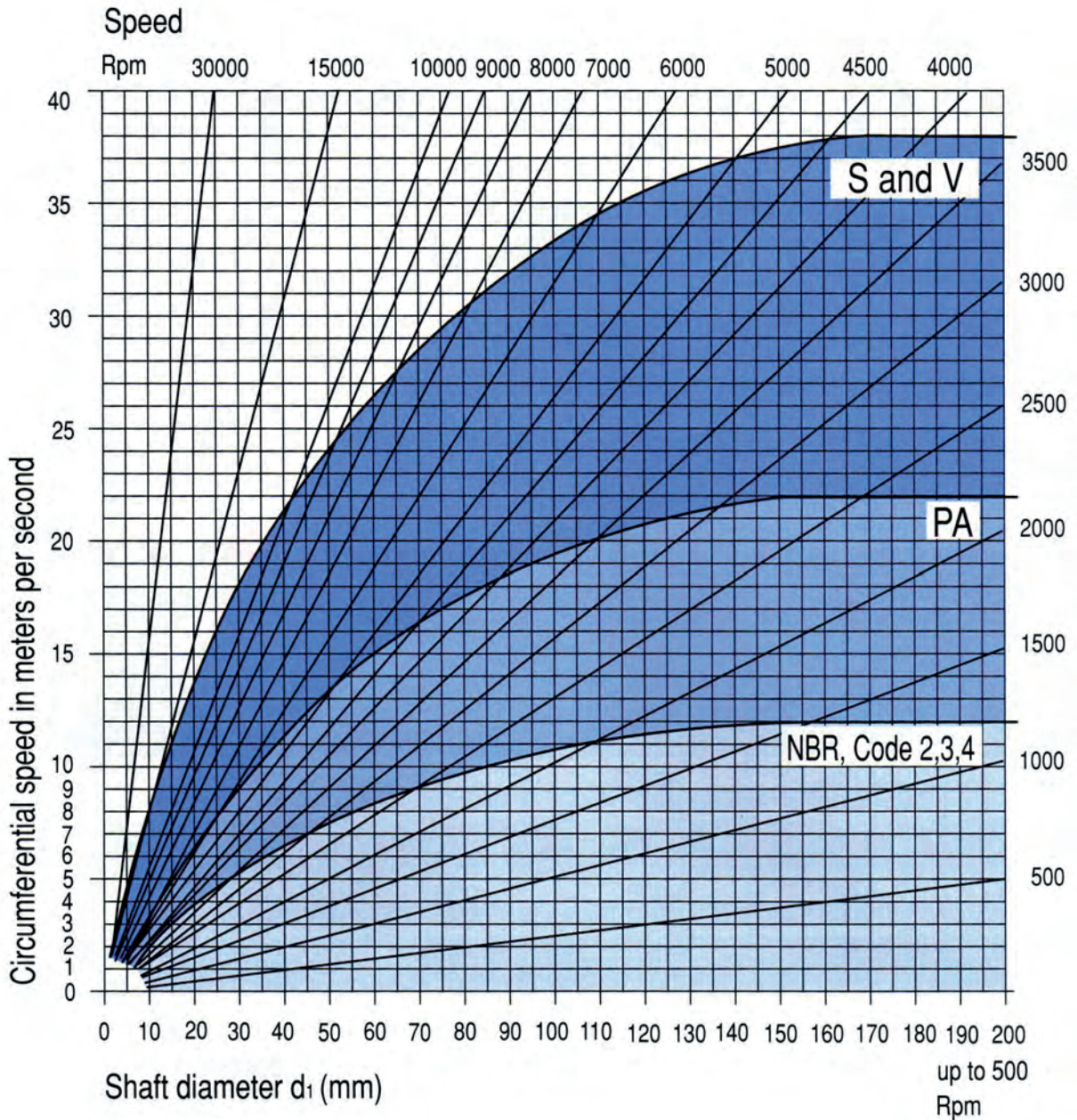
RPM

and surface speed table

5C

Bore and Shaft Technical Information

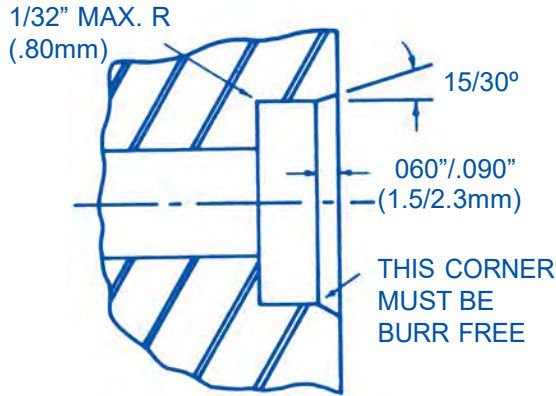
The table below shows the permissible surface speed and RPM for various sealing rubber materials and shaft diameters.



Conversion Information

- 1 meter = 3.28 feet
- 1mm = 0.039 inches
- 1 inch = 25.4 mm
- 1 foot = 0.305 m





Bore Configurations

Tobar's oil seals are designed with an entry lead-in angle on the outside diameter of the seal to provide ease of installation. Additionally, the bore should be designed with a lead-in chamfer to facilitate seal assembly, and protect against damage to the O.D. of the seal. A chamfer of 15° to 30° is recommended at the entry edge of the bore. This chamfer should have a minimum axial depth of .060\"/>

Bore Tolerance

Tobar's oil seals are manufactured to tight outside diameter tolerances to insure a positive press-fit seal between the seal O.D. and the bore. Depending upon the size and configuration of the seal, the nominal press-fit of the seal O.D. in the bore will be between .004\"/>

Tolerances on these tables apply to bores fabricated in ferrous materials only. Bores machined in aluminum and other materials of higher coefficients of thermal expansion may require tighter press-fits. Tobar's Type C case and O.D. structured oil seals with rubber covered O.D.'s are recommended when used in conjunction with bores of higher thermal expansion. (The rubber covered O.D. will provide a rate of thermal expansion greater than that of the carbon steel cans thereby helping to ensure a positive press-fit through elevated temperatures.) Additionally, these rubber covered O.D.'s will provide protection against the damage to bores of a softer Rockwell hardness than the carbon steel cans.

Bore Hardness

There is no recommended Rockwell hardness for the bore. However, the bore should be of sufficient hardness to provide and maintain a stable interface for the seal. If the seal is press-fit into a plastic housing whereby the metal O.D. of the seal will be significantly harder than the bore, Tobar recommends a rubber covered outside diameter seal.

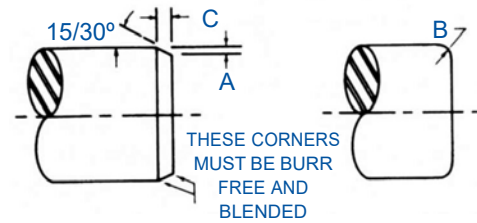
Bore Finish

Metal O.D.: Up to 100 micro-inches.
Rubber O.D.: 100 plus micro-inches.

Shaft Configuration

The most demanding function placed on an oil seal is creating the seal between the lip element and the rotating shaft. For this reason the shaft preparation is most critical since it represents 50 percent of the dynamic seal assembly.

A lead-in angle or radius on the shaft is required to ensure against seal damage during installation. The following chart shows recommended chamfers and radii for varying shaft diameters. As with the bore, it is most important to ensure that there are no burrs or sharp edges at the lead-in end of the shaft.



Shaft (inches)	SHAFT DIAMETER		Preferred C@15°	Optional C@30°
	(A)	(B)		
Up to 4.000	.093	.188	.347	.156
4.001 to 7.000	.125	.250	.466	.218
7.001 to 40.000	.188	.375	.702	.323
40.001 and larger	.250	.500	.933	.433

Shaft Material

For the best dynamic seal results, a medium carbon steel shaft of AISI 1035 or 1045 with a hardness of Rockwell 45 (Rockwell C3 minimum) is recommended. Stainless steel shafts can also be utilized successfully. Hard plated surfaces such as chrome-plate or nickel-plate can also be used satisfactorily if the surface finishes are proper. Shafts of brass, bronze, aluminum alloys, zinc, magnesium and other such soft metals are not recommended for normal oil seal application. It may be possible to utilize these softer materials if the dynamic action between the seal and the shaft is very limited.

Shaft Surface Finish

The optimum finish is a plunge grind. To help achieve consistent sealing performance and to maximize the life of the seal, we recommend the following shaft finish:
RA 0.25 to 0.50 micro-meters (10-20 micro-inch)
Rz 1.65 to 2.90 micro-meters (65-115 micro-inch)

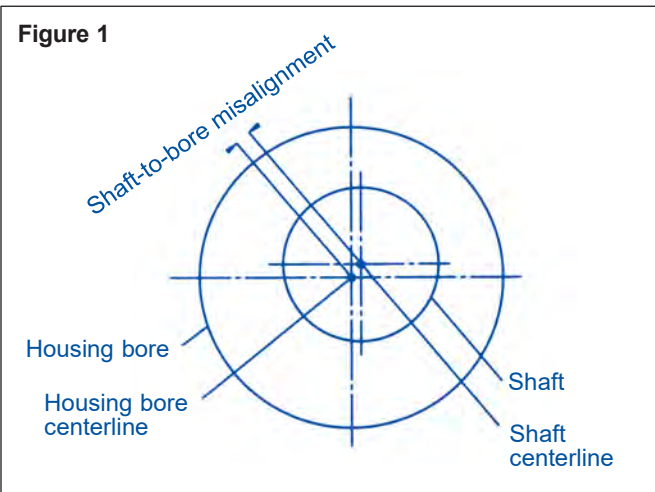
Shaft Eccentricity

Eccentricity between the oil seal and shaft takes two forms: dynamic and static. Static eccentricity is described as the misalignment between the shaft and the bore. That is, the amount the shaft centerline is offset from the bore centerline when both components are in the assembled condition. Non-spring loaded oil seals will handle a static eccentricity of .005 total indicator reading when operating between 0 and 2000 ft. per minute. A spring loaded oil seal will accommodate .015 static eccentricity when operated between 0 and 1000 ft. per minute and .010 static eccentricity when operating between 1000 and 3600 ft. per minute.

5D

Figure 1

Dynamic eccentricity is described as the misalignment created by the shaft not rotating about its true centerline. This is produced by a bent shaft, an improperly supported shaft, or a shaft with high side loads. A non-spring loaded oil seal will accommodate dynamic eccentricity of .003 total indicator reading when operated between 0 and 2500 ft. per minute. A spring loaded oil seal will handle .020 total indicator reading when operated between 0 and 1000 ft. per minute, .015 total indicator reading when operated between 1000 and 2500 ft. per minute, and .010 when operated between 2500 and 4500 ft. per minute.

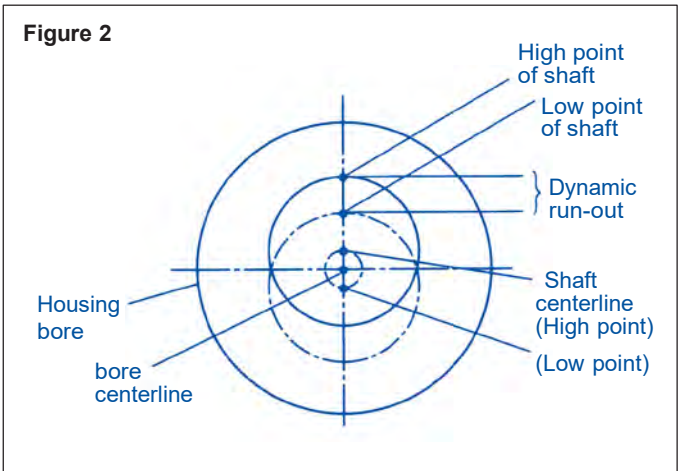


Shaft to bore Misalignment

The distance that the center of the shaft rotation is from the center of the bore.

Figure 2

Seals with increased width are more capable of handling both dynamic and static eccentricities. This is a result of the seal's increased beam length, and the resulting lack of resistance within the seal lip to following the eccentric motion of the shaft surface.



Dynamic run-out

Dynamic run-out is calculated as twice the distance that the center of the shaft is displaced from the actual center of rotation.

Shaft Tolerance Chart

The following chart shows the recommended shaft tolerance for use with Tobar oil seals. Other requirements in the overall design may require tighter tolerances for the shaft than are shown in this chart.

INCHES	
Nominal Shaft Diameter	Tolerances
Up to and including 4.000.....	±.003
4.001 to 6.000	±.004
6.001 to 10.000	±.005
10.001 and larger	±.006

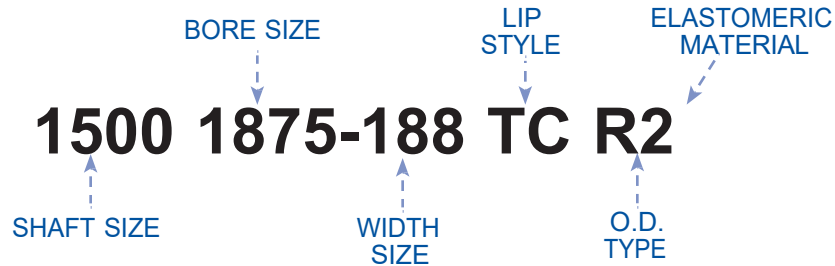
Design Exceptions

The design recommendations in this catalog are only suggestions and do not imply that designs outside of these recommendations will not function. Tobar recommends, in all cases, that thorough functional testing be conducted on all designs to ensure their success. Trade-offs between temperature, pressure, shaft speed, eccentricity, and seal style to handle conditions beyond those stated in this catalog may be possible. However, care and thorough testing are recommended for satisfactory results.

Tobar

numbering system explained

The Tobar part numbering system is uniquely designed to completely describe the seal size, configuration, and material composition. This numbering system will allow the user, at a glance, to determine the seal's shaft and bore size, width, lip style, O.D. treatment, and elastomeric material.



Shaft Size - The first four digits in the part number describe the nominal shaft size to three decimal places. If the shaft size is greater than 10 inches, five digits will be used for this portion of the part number.

Bore Size - The second four digits of the part number are used to describe the nominal bore size in which the seal is used. Again, if the bore size is greater than 10 inches, five digits will be used in this position.

Width Size - a dash, and either three or four digits describing the width of the seal to three decimal places follow the bore size.

Lip Style Type - The style type selected follows the types of oil seals listed on pages 6 - 11.

O.D. Type - This code describes the outside diameter of the seal.

O.D .Treatment	Type
Rubber Coated	R
Ground Metal	G
Painted Sealant	P (Blue, Green, Red)
Tobar Tough Sealant	H
Metal with Bonding Agent	C
Curled Edge	RD
Stainless Steel Spring Stainless	SS
Steel Spring and Case	SSS
Grease between Lips	GR
Special Coating, Rubber-Metal	X

Elastomeric material - This code defines the elastomer used in the seal element.

Elastomer	Type
Nitrile 70	2
Nitrile 80	3
Nitrile 90	4
High Temp NBR	5
HNBR	H
Fluorocarbon	V
Polyacrylate	PA
Silicone	S
Special Material: XNBR, Low Friction, Color,...	Special Type



6B

Tobar Numbering System and Engineering Application Sheet

CUSTOMER INFORMATION

CUSTOMER		
ADDRESS		
CITY	STATE	ZIP CODE
CONTACT		EMAIL
TELEPHONE ()	FAX ()	

CUSTOMER P/N	
TYPE OF EQUIPMENT	
APPLICATION	
<input type="checkbox"/> ISIR	<input type="checkbox"/> PPAP
<input type="checkbox"/> FMEA	<input type="checkbox"/> FUNCTIONAL TEST
ANNUAL USAGE	PRODUCTION DATE

APPLICATION INFORMATION OPERATING CONDITIONS

BORE DIAMETER	
MATERIAL	
DEPTH	
SURFACE ROUGHNESS	
MISALIGNMENT TO SHAFT	
LEAD CORNER "A"	
CORNER "B"	

SHAFT DIAMETER	
MATERIAL	
HARDNESS	
SURFACE ROUGHNESS	
LEAD MACHINE/GRIND	
RUNOUT (TIR)	
LEAD CORNER	

DYNAMIC CONDITIONS	SHAFT/BORE	
ROTATION	NORM	
	MAX	
OSCILLATION	NORM	
	MAX	
RECIPROCATION	NORM	
	MAX	
OTHER		

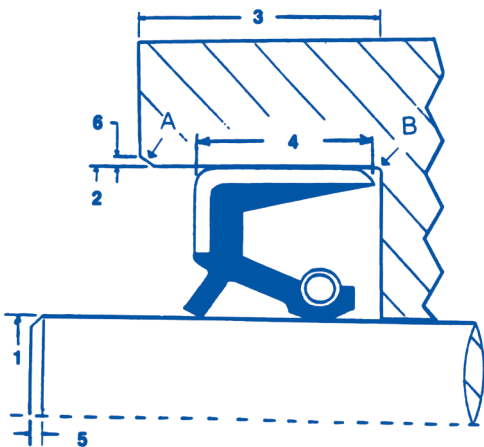
FLUID SEALED	
TYPE	
LEVEL RELATIVE TO SHAFT	
OPERATING TEMPERATURE	
TEMPERATURE RANGE	
PRESSURE	

INFORMATION SUMMARY AND TOBAR PART NUMBER

- (1) SHAFT SIZE _____ (5) SHAFT CHAMFER ANGLE _____
- (2) BORE SIZE _____ (6) BORE CHAMFER ANGLE _____
- (3) BORE WIDTH _____ LIP DESIGN _____
- (4) SEAL WIDTH _____ COMPOUND _____

TOBAR PART NUMBER:

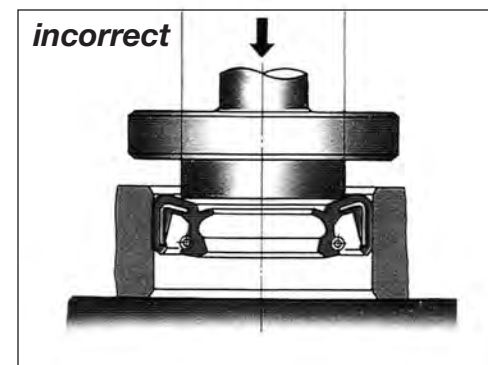
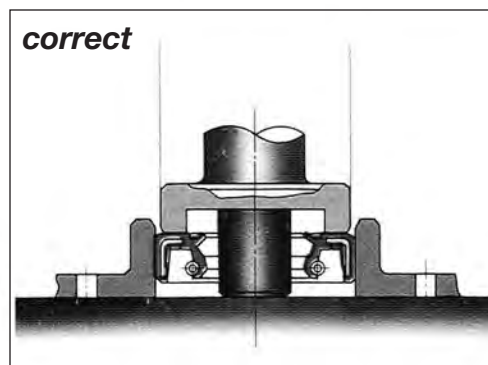
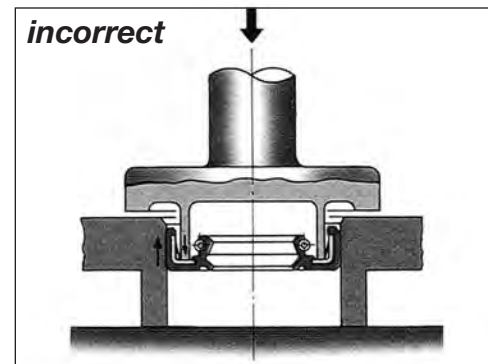
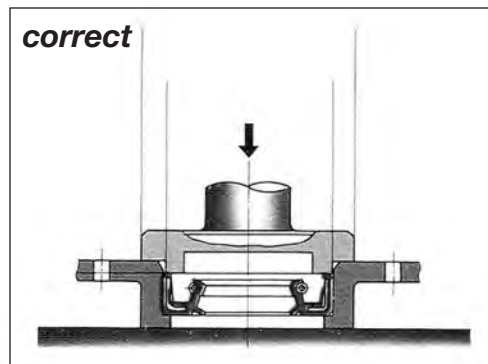
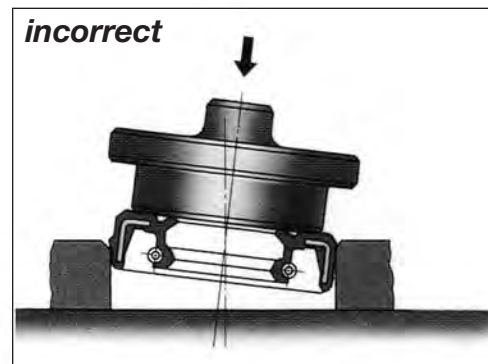
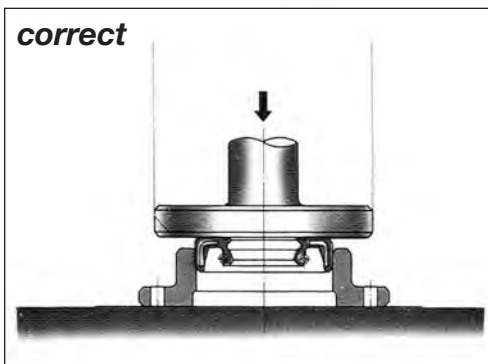
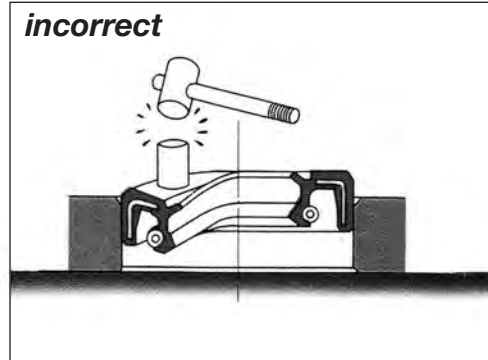
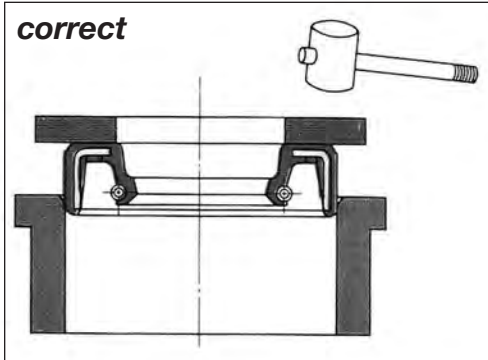
SHAFT BORE - WIDTH LIP DESIGN OD TYPE COMPOUND



Tobar

installation guide

The following pictures illustrate the correct and incorrect assembly.



Tobar Checklist for Leakage Analysis

7 Customer: _____ Miles/Hours Service: _____
 Seal Application: _____

Installation Guide and Tobar Checklist for Leakage Analysis

STEP 1 INSPECT THE SEAL APPLICATION BEFORE REMOVAL

- | | | | |
|-------------------|---|--|--|
| Amount of Leakage | <input type="checkbox"/> Slight | <input type="checkbox"/> Seal Area Damp | <input type="checkbox"/> Heavy Leakage |
| Condition of Area | <input type="checkbox"/> Clean | <input type="checkbox"/> Dusty | <input type="checkbox"/> Mud Packed |
| Leakage Source | <input type="checkbox"/> Between Lip & Shaft | <input type="checkbox"/> Between OD & Bore | |
| | <input type="checkbox"/> At Retainer Gasket | <input type="checkbox"/> Between Elements of Seal | |
| | <input type="checkbox"/> At Retainer Bolt Holes | <input type="checkbox"/> Between Wear Sleeve & Shaft | |

STEP 2 WIPE AREA CLEAN AND INSPECT

- | | | |
|------------------------|---|--|
| Check Conditions Found | <input type="checkbox"/> Nicks on Bore Chamfer | <input type="checkbox"/> Seal Loose in Bore |
| | <input type="checkbox"/> Seal Cocked in Bore | <input type="checkbox"/> Seal Case Deformed |
| | <input type="checkbox"/> Seal Installed Improperly | <input type="checkbox"/> Paint Spray on Seal |
| | <input type="checkbox"/> Shaft to Bore Misalignment | <input type="checkbox"/> Other _____ |

STEP 3 ROTATE SHAFT IF POSSIBLE

- | | | |
|------------------|---|---|
| Check Conditions | <input type="checkbox"/> Excessive End Play | <input type="checkbox"/> Excessive Runout |
|------------------|---|---|

STEP 4 SYSTEM INFORMATION

Application Pressure _____ Estimated Operating Temperature _____ RPM _____
 Sump Level Full 3/4 Full 1/2 Full 1/4 Full

STEP 5 MARK THE SEAL AT THE 12 O'CLOCK POSITION & REMOVE IT CAREFULLY

Retain an oil sample

STEP 6 INSPECT THE APPLICATION WITH SEAL REMOVED

- | | | |
|------------------------|--|---|
| Check Conditions Found | <input type="checkbox"/> Rough Bore Surface | <input type="checkbox"/> Flaws or Voids in Bore |
| | <input type="checkbox"/> Shaft Clean | <input type="checkbox"/> Shaft Corroded |
| | <input type="checkbox"/> Coked Lube on Shaft | <input type="checkbox"/> Shaft Discolored |
| | <input type="checkbox"/> Shaft Damaged | <input type="checkbox"/> Shaft Grooved |

STEP 7 INSPECT THE SEAL

- | | | | |
|-----------------------|--|--|---|
| Primary Lip Condition | <input type="checkbox"/> Normal | <input type="checkbox"/> Damaged (Nicks) | <input type="checkbox"/> Hardened (Stiff) |
| | <input type="checkbox"/> Soft (Flexible) | <input type="checkbox"/> Excessive Wear | <input type="checkbox"/> Eccentric Wear |
| Seal OD | <input type="checkbox"/> Normal | <input type="checkbox"/> Axial Scratches | <input type="checkbox"/> Damaged Rubber |
| Spring | <input type="checkbox"/> In Place | <input type="checkbox"/> Missing | <input type="checkbox"/> Separated |
| | <input type="checkbox"/> Corroded | | |

Comments:

Completed by: _____

Date: _____

Typ

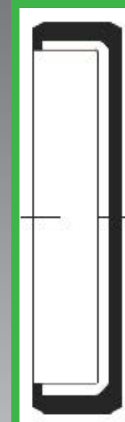
Tobar

additional seal designs

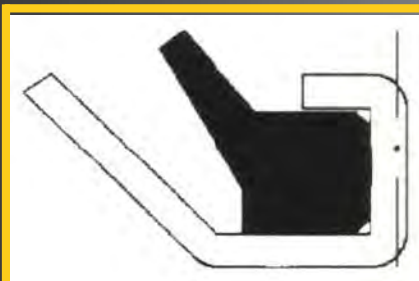
V-Ring



Bore Plug



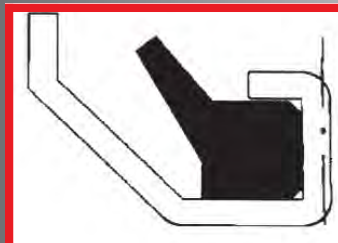
Type R

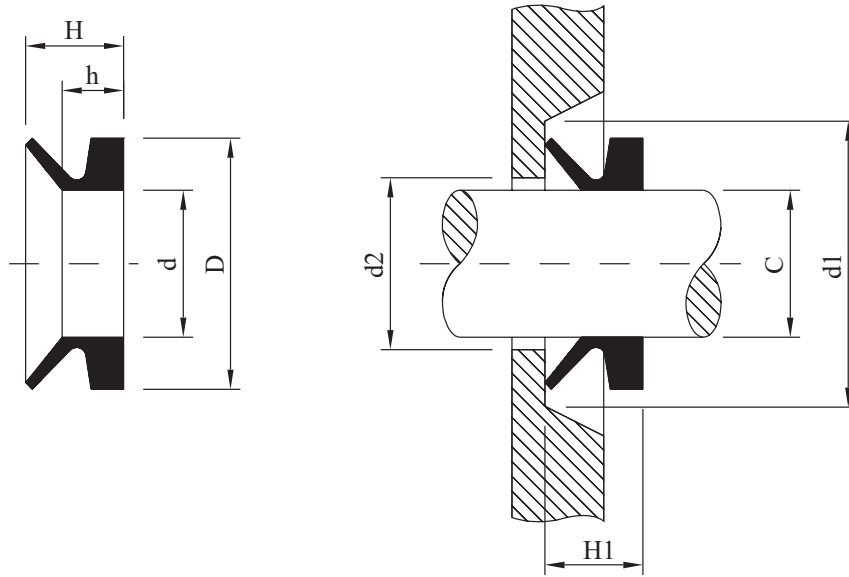


WPB Wiper



Type R9





Reference	Shaft C	d	D	h	H	d2	d1	H1
VA 3	2.7 - 3.5	2.5	5.5	2.1	3	C + 1	C + 4	2.5 ± 0.3
VA 4	3.5 - 4.5	3.2	7.2	2.4	3.7	C + 1	C + 6	3 ± 0.4
VA 5	4.5 - 5.5	4	8	2.4	3.7	C + 1	C + 6	3 ± 0.4
VA 6	5.5 - 6.5	5	9	2.4	3.7	C + 1	C + 6	3 ± 0.4
VA 7	6.5 - 8	6	10	2.4	3.7	C + 1	C + 6	3 ± 0.4
VA 8	8 - 9.5	7	11	2.4	3.7	C + 1	C + 6	3 ± 0.4
VA 10	9.5 - 11.5	9	15	3.4	5.5	C + 2	C + 9	4.5 ± 0.6
VA 12	11.5 - 13.5	10.5	16.5	3.4	5.5	C + 2	C + 9	4.5 ± 0.6
VA 14	13.5 - 15.5	12.5	18.5	3.4	5.5	C + 2	C + 9	4.5 ± 0.6
VA 16	15.5 - 17.5	14	20	3.4	5.5	C + 2	C + 9	4.5 ± 0.6
VA 18	17.5 - 19	16	22	3.4	5.5	C + 2	C + 9	4.5 ± 0.6
VA 20	19 - 21	18	26	4.7	7.5	C + 2	C + 12	6 ± 0.8
VA 22	21 - 24	20	28	4.7	7.5	C + 2	C + 12	6 ± 0.8
VA 25	24 - 27	22	30	4.7	7.5	C + 2	C + 12	6 ± 0.8
VA 28	27 - 29	25	33	4.7	7.5	C + 3	C + 12	6 ± 0.8
VA 30	29 - 31	27	35	4.7	7.5	C + 3	C + 12	6 ± 0.8
VA 32	31 - 33	29	37	4.7	7.5	C + 3	C + 12	6 ± 0.8
VA 35	33 - 36	31	39	4.7	7.5	C + 3	C + 12	6 ± 0.8
VA 38	36 - 38	34	42	4.7	7.5	C + 3	C + 12	6 ± 0.8
VA 40	38 - 43	36	46	5.5	9	C + 3	C + 15	7 ± 1
VA 45	43 - 48	40	50	5.5	9	C + 3	C + 15	7 ± 1
VA 50	48 - 53	45	55	5.5	9	C + 3	C + 15	7 ± 1
VA 55	53 - 58	49	59	5.5	9	C + 3	C + 15	7 ± 1
VA 60	58 - 63	54	64	5.5	9	C + 3	C + 15	7 ± 1
VA 65	63 - 68	58	68	5.5	9	C + 3	C + 15	7 ± 1
VA 70	68 - 73	63	75	6.8	11	C + 4	C + 18	9 ± 1.2
VA 75	73 - 78	67	79	6.8	11	C + 4	C + 18	9 ± 1.2
VA 80	78 - 83	72	84	6.8	11	C + 4	C + 18	9 ± 1.2
VA 85	83 - 88	76	88	6.8	11	C + 4	C + 18	9 ± 1.2
VA 90	88 - 93	81	93	6.8	11	C + 4	C + 18	9 ± 1.2
VA 95	93 - 98	85	97	6.8	11	C + 4	C + 18	9 ± 1.2
VA100	98 - 105	90	102	6.8	11	C + 4	C + 18	9 ± 1.2
VA110	105 - 115	99	113	7.9	12.8	C + 4	C + 21	10.5 ± 1.5
VA120	115 - 125	108	122	7.9	12.8	C + 4	C + 21	10.5 ± 1.5
VA130	125 - 135	117	131	7.9	12.8	C + 4	C + 21	10.5 ± 1.5

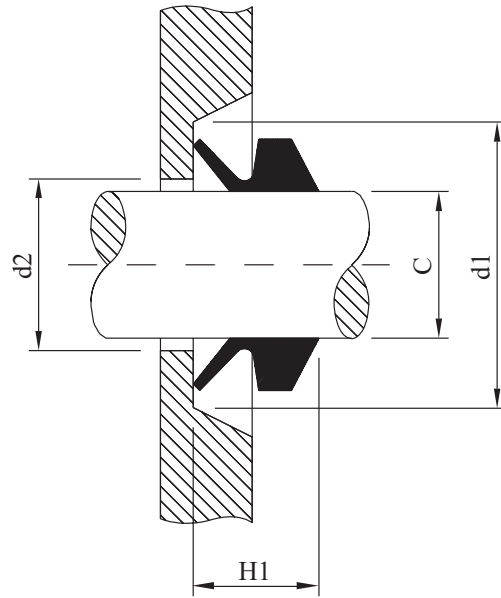
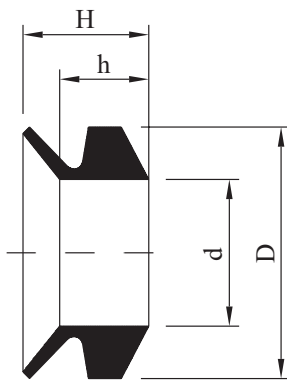
Tobar

Seal Type VA

8

Additional Standard Rotary Seal Designs

Reference	Shaft C	d	D	h	H	d2	d1	H1
VA 140	135 - 145	126	140	7.9	12.8	C + 4	C +21	10.5 \pm 1.5
VA 150	145 - 155	135	149	7.9	12.8	C + 4	C +21	10.5 \pm 1.5
VA 160	155 - 165	144	160	9	14.5	C + 5	C +24	12 \pm 1.8
VA 170	165 - 175	153	169	9	14.5	C + 5	C +24	12 \pm 1.8
VA 180	175 - 185	162	178	9	14.5	C + 5	C +24	12 \pm 1.8
VA 190	185 - 195	171	187	9	14.5	C + 5	C +24	12 \pm 1.8
VA 199	195 - 210	180	196	9	14.5	C + 5	C +24	12 \pm 1.8
VA 200	190 - 210	180	210	14.3	25	C +10	C +45	20 \pm 4
VA 220	210 - 235	198	228	14.3	25	C +10	C +45	20 \pm 4
VA 250	235 - 265	225	255	14.3	25	C +10	C +45	20 \pm 4
VA 275	265 - 290	247	277	14.3	25	C +10	C +45	20 \pm 4
VA 300	290 - 310	270	300	14.3	25	C +10	C +45	20 \pm 4
VA 325	310 - 335	292	322	14.3	25	C +10	C +45	20 \pm 4
VA 350	335 - 365	315	345	14.3	25	C +10	C +45	20 \pm 4
VA 375	365 - 390	337	367	14.3	25	C +10	C +45	20 \pm 4
VA 400	390 - 430	360	390	14.3	25	C +10	C +45	20 \pm 4
VA 450	430 - 480	405	435	14.3	25	C +10	C +45	20 \pm 4
VA 500	480 - 530	450	480	14.3	25	C +10	C +45	20 \pm 4
VA 550	530 - 580	495	525	14.3	25	C +10	C +45	20 \pm 4
VA 600	580 - 630	540	570	14.3	25	C +10	C +45	20 \pm 4
VA 650	630 - 665	600	630	14.3	25	C +10	C +45	20 \pm 4
VA 700	665 - 705	630	660	14.3	25	C +10	C +45	20 \pm 4
VA 725	705 - 745	670	700	14.3	25	C +10	C +45	20 \pm 4
VA 750	745 - 785	705	735	14.3	25	C +10	C +45	20 \pm 4
VA 800	785 - 830	745	775	14.3	25	C +10	C +45	20 \pm 4
VA 850	830 - 875	785	815	14.3	25	C +10	C +45	20 \pm 4
VA 900	875 - 920	825	855	14.3	25	C +10	C +45	20 \pm 4
VA 950	920 - 965	865	895	14.3	25	C +10	C +45	20 \pm 4
VA 1000	965 - 1015	910	940	14.3	25	C +10	C +45	20 \pm 4
VA 1050	1015 - 1065	955	985	14.3	25	C +10	C +45	20 \pm 4
VA 1100	1065 - 1115	1000	1030	14.3	25	C +10	C +45	20 \pm 4
VA 1150	1115 - 1165	1045	1075	14.3	25	C +10	C +45	20 \pm 4
VA 1200	1165 - 1215	1090	1120	14.3	25	C +10	C +45	20 \pm 4
VA 1250	1215 - 1270	1135	1165	14.3	25	C +10	C +45	20 \pm 4
VA 1300	1270 - 1320	1180	1210	14.3	25	C +10	C +45	20 \pm 4
VA 1350	1320 - 1370	1225	1255	14.3	25	C +10	C +45	20 \pm 4
VA 1400	1370 - 1420	1270	1300	14.3	25	C +10	C +45	20 \pm 4
VA 1450	1420 - 1470	1315	1345	14.3	25	C +10	C +45	20 \pm 4
VA 1500	1470 - 1520	1360	1390	14.3	25	C +10	C +45	20 \pm 4
VA 1550	1520 - 1570	1405	1435	14.3	25	C +10	C +45	20 \pm 4
VA 1600	1570 - 1620	1450	1480	14.3	25	C +10	C +45	20 \pm 4
VA 1650	1620 - 1670	1495	1525	14.3	25	C +10	C +45	20 \pm 4
VA 1700	1670 - 1720	1540	1570	14.3	25	C +10	C +45	20 \pm 4
VA 1750	1720 - 1770	1585	1615	14.3	25	C +10	C +45	20 \pm 4
VA 1800	1770 - 1820	1630	1660	14.3	25	C +10	C +45	20 \pm 4
VA 1850	1820 - 1870	1675	1705	14.3	25	C +10	C +45	20 \pm 4
VA 1900	1870 - 1920	1720	1750	14.3	25	C +10	C +45	20 \pm 4
VA 1950	1920 - 1970	1765	1795	14.3	25	C +10	C +45	20 \pm 4
VA 2000	1970 - 2020	1810	1840	14.3	25	C +10	C +45	20 \pm 4



Reference	Shaft C	d	D	h	H	d2	dI	H1
VS 5	4.5 - 5.5	4	8	3.9	5.2	C + 1	C + 6	4.5 ± 0.4
VS 6	5.5 - 6.5	5	9	3.9	5.2	C + 1	C + 6	4.5 ± 0.4
VS 7	6.5 - 8	6	10	3.9	5.2	C + 1	C + 6	4.5 ± 0.4
VS 8	8 - 9.5	7	11	3.9	5.2	C + 1	C + 6	4.5 ± 0.4
VS 10	9.5 - 11.5	9	15	5.6	7.7	C + 2	C + 9	6.7 ± 0.6
VS 12	11.5 - 13.5	10.5	16.5	5.6	7.7	C + 2	C + 9	6.7 ± 0.6
VS 14	13.5 - 15.5	12.5	18.5	5.6	7.7	C + 2	C + 9	6.7 ± 0.6
VS 16	15.5 - 17.5	14	20	5.6	7.7	C + 2	C + 9	6.7 ± 0.6
VS 18	17.5 - 19	16	22	5.6	7.7	C + 2	C + 9	6.7 ± 0.6
VS 20	19 - 21	18	26	7.9	10.5	C + 2	C + 12	9 ± 0.8
VS 22	21 - 24	20	28	7.9	10.5	C + 2	C + 12	9 ± 0.8
VS 25	24 - 27	22	30	7.9	10.5	C + 2	C + 12	9 ± 0.8
VS 28	27 - 29	25	33	7.9	10.5	C + 3	C + 12	9 ± 0.8
VS 30	29 - 31	27	35	7.9	10.5	C + 3	C + 12	9 ± 0.8
VS 32	31 - 33	29	37	7.9	10.5	C + 3	C + 12	9 ± 0.8
VS 35	33 - 36	31	39	7.9	10.5	C + 3	C + 12	9 ± 0.8
VS 38	36 - 38	34	42	7.9	10.5	C + 3	C + 12	9 ± 0.8
VS 40	38 - 43	36	46	9.5	13	C + 3	C + 15	11 ± 1
VS 45	43 - 48	40	50	9.5	13	C + 3	C + 15	11 ± 1
VS 50	48 - 53	45	55	9.5	13	C + 3	C + 15	11 ± 1
VS 55	53 - 58	49	59	9.5	13	C + 3	C + 15	11 ± 1
VS 60	58 - 63	54	64	9.5	13	C + 3	C + 15	11 ± 1
VS 65	63 - 68	58	68	9.5	13	C + 3	C + 15	11 ± 1
VS 70	68 - 73	63	75	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 75	73 - 78	67	79	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 80	78 - 83	72	84	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 85	83 - 88	76	88	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 90	88 - 93	81	93	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 95	93 - 98	85	97	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 100	98 - 105	90	102	11.3	15.5	C + 4	C + 18	13.5 ± 1.2
VS 110	105 - 115	99	113	13.1	18	C + 4	C + 21	15.5 ± 1.5
VS 120	115 - 125	108	122	13.1	18	C + 4	C + 21	15.5 ± 1.5
VS 130	125 - 135	117	131	13.1	18	C + 4	C + 21	15.5 ± 1.5
VS 140	135 - 145	126	140	13.1	18	C + 4	C + 21	15.5 ± 1.5
VS 150	145 - 155	135	149	13.1	18	C + 4	C + 21	15.5 ± 1.5

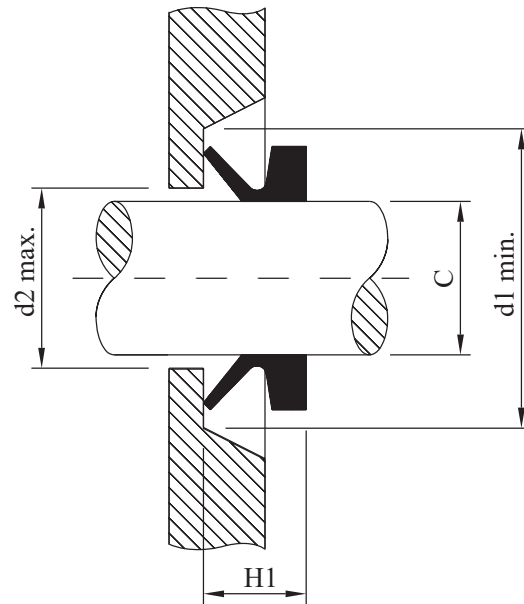
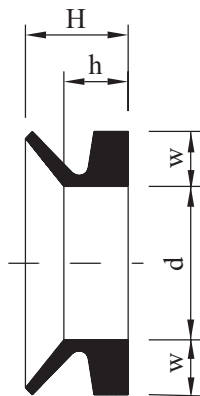
Tobar

Seal Type VS

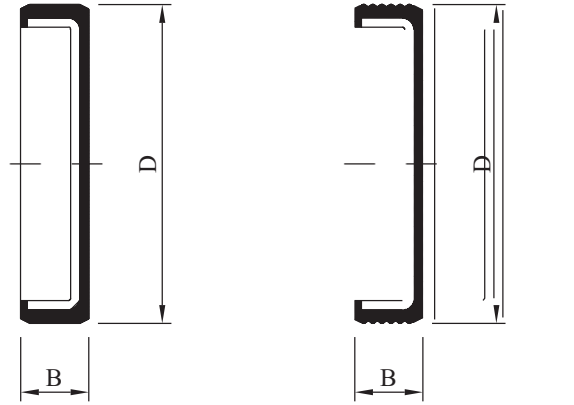
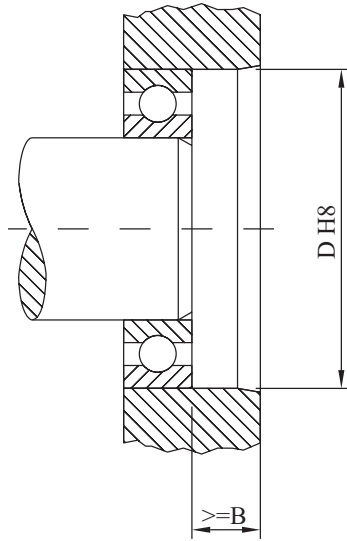
Reference	Shaft C	d	w	h	H	d2	d1	H1
VS 160	155 - 165	144	160	15	20.5	C + 5	C + 24	18 ± 1.8
VS 170	165 - 175	153	169	15	20.5	C + 5	C + 24	18 ± 1.8
VS 180	175 - 185	162	178	15	20.5	C + 5	C + 24	18 ± 1.8
VS 190	185 - 195	171	187	15	20.5	C + 5	C + 24	18 ± 1.8
VS 199	195 - 210	180	196	15	20.5	C + 5	C + 24	18 ± 1.8

Tobar

Seal Type VL



Reference	Shaft C	d	w	h	H	d2	d1	H1
VL 140	135 - 145	126	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 150	145 - 155	135	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 160	155 - 165	144	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 170	165 - 175	153	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 180	175 - 185	162	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 190	185 - 195	171	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 200	195 - 210	182	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 220	210 - 233	198	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 250	233 - 260	225	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 275	260 - 285	247	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 300	285 - 310	270	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 325	310 - 335	292	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 350	335 - 365	315	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 375	365 - 385	337	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 400	385 - 410	360	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 425	410 - 440	382	6.5	6	10.5	C + 5	C + 20	8 ± 1.5
VL 450	440 - 475	405	6.5	6	10.5	C + 5	C + 20	8 ± 1.5



TYPE	D	B	TT
EC	12	5	A
EC	12.78	2.54	A
EC	13	4.5	A
ECW	19	6	A
EC	19	7	A
EC	20	4	B
EC	22	4	B
EC	22	5	B
EC	22	7	B
EC	24	7	B
EC	25	5	B
EC	25	6	B
EC	25	7	B
EC	25.35	6.4	B
EC	26	6.5	B
EC	28	4	B
EC	28	7	B
EC	30	4	C
EC	30	5	C
EC	30	6	C
EC	30	8	C
EC	31.75	4.8	C
EC	32	5	C
EC	32	7	C
EC	32	8	C
EC	32	9.5	C
EC	34	8	C
EC	34	18	C
EC	35	3.5	C
EC	35	5	C
EC	35	6.5	C
EC	35	7	C
ECW	35	8	C
EC	35	8	C
EC	36	6	C
EC	37	5	C

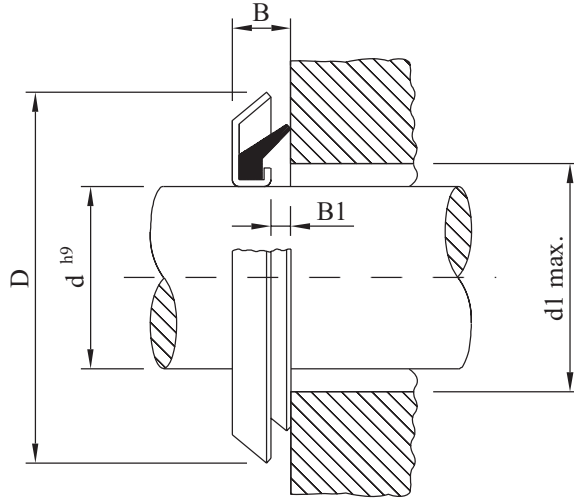
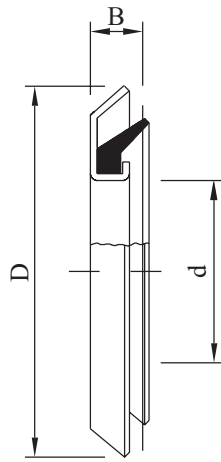
TYPE	D	B	TT
EC	37	7	C7
EC	37	10	C7
EC	38	10	C8
ECW	38.05	7.9	C8
EC	38.1	4.8	C8
EC	38.1	6.4	C8
EC	39.69	6.4	C9
EC	40	2.5	D0
EC	40	5	D0
EC	40	7	D0
EC	40	7	D0
EC	40	7	D0
EC	40	8	D0
ECW	41.23	7.9	D1
EC	42	7	D2
EC	42	8	D2
EC	42	9.5	D2
ECW	44.5	7.9	D4
EC	45	5	D5
EC	45.29	6.4	D5
EC	45.97	6.4	D5
EC	47	5	D7
EC	47	6.5	D7
EC	47	7	D7
EC	47	8	D7
EC	47	8	D7
ECW	47	8.5	D7
EC	47	10	D7
EC	47.02	4.7	D7
EC	47.02	6.4	D7
EC	50	7	E0
EC	50	9	E0
EC	50	16	E0
ECW	50.34	7.9	E0
EC	50.8	6.4	E0
EC	50.8	7.9	E0
EC	52	6	E2

TYPE	D	B
EC	52	7
EC	52	8
EC	52	6.5
ECW	52.39	8.5
ECW	52	9
EC	52	10
EC	52	10
EC	55	7
EC	55	10
EC	56	10
ECW	57.15	7.9
EC	58.74	7.9
EC	58.75	7.9
EC	60	7
EC	60	16
ECW	60.27	7.9
EC	62	4.3
EC	62	6.4
EC	62	7
EC	62	8
ECW	62	8
ECW	62	8.9
EC	62	9.5
EC	63.5	7.9
EC	63.55	6.4
EC	65	8
EC	65	10
EC	66.62	7.9
EC	68	8
EC	70	7.9
EC	70	10
EC	70	16
ECW	72	8.5
EC	72	9
EC	72	9
ECW	72	9.8
EC	72	10
EC	75	7
ECW	80	6.4
EC	80	10
ECW	80	12
EC	80	12
EC	80	16
EC	82.65	6.4
EC	83	7
EC	85	10
ECW	85	10.7
EC	85	12
EC	85	20
EC	87	12
EC	88.9	9.5
EC	90	7
EC	90	10
ECW	90	11.5
EC	90	12

TYPE	D	B
ECW	95	10
EC	95	10
EC	100	10
ECW	100	11.3
EC	100	12
EC	100	25
EC	100	31
EC	110	10
EC	110	12
EC	110	21
EC	120	12
EC	120	27
EC	120	33
EC	125	12
EC	130	12
EC	130	27
EC	140	15
EC	140	37
EC	145	15
EC	150	15
EC	150	27
EC	160	15
EC	165	12
EC	167	15
EC	170	15
EC	170	43
EC	180	12
EC	180	15
EC	180	30
EC	185	15
EC	190	12
EC	210	15
EC	210	27
EC	225	14
EC	230	14
EC	235	15
EC	240	15
EC	260	15
EC	270	15
EC	290	15

Tobar

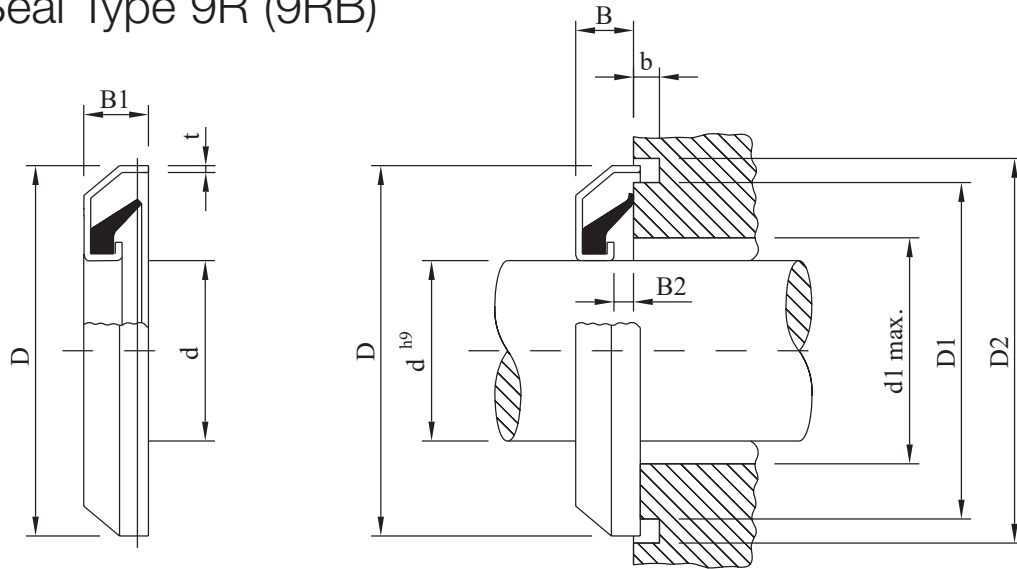
Seal Type R (RB)



d	D	B	B1	d1
10	24	3.5	1	15
11	26	3.5	1	17
12	26	3.5	1	17
14	30	4	1	21
15	30	4	1	21
16	32	4	1	23
17	32	4	1	23
18	33	4	1	24
20	35	4	1	26
22	40	4	1	31
24	40	4	1	31
25	40	4	1	31
26	40	4	1	31
28	43	4	1	34
30	47	4.5	1	37
32	49	4.5	1	39
35	52	4.5	1	42
38	55	4.5	1	45
40	57	4.5	1	47
41	57	4.5	1	48
42	59	4.5	1	49
45	62	4.5	1	52
48	65	4.5	1	55
50	70	5.5	1	58
52	72	5.5	1	60
54	76	5.5	1	62
55	75	5.5	1	63
58	78	5.5	1	66
60	80	5.5	1	68
62	82	5.5	1	70
65	85	5.5	1	73
68	88	5.5	1	76
70	90	5.5	1	78
72	92	5.5	1	80
75	95	5.5	1	83

d	D	B	B1	d1
75	96	5.5	1	83
78	98	5.5	1	86
80	100	5.5	1	88
85	105	5.5	1	93
90	110	5.5	1	98
95	115	5.5	1	103
100	120	5.5	1	108
105	125	5.5	1	113
135	159	6.5	1	145
225	250	7.5	1	235

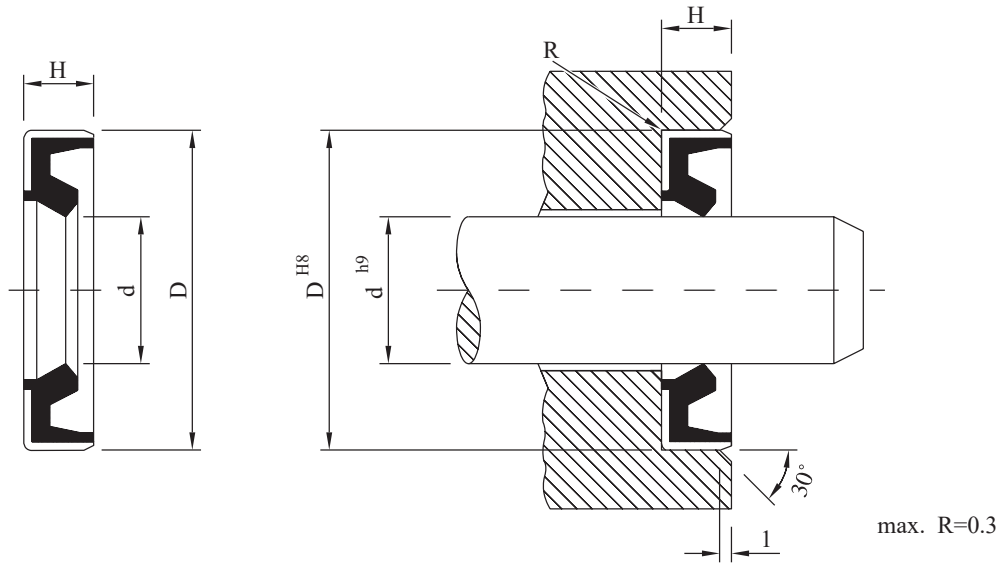
Seal Type 9R (9RB)



d	D	B	B1	B2	b	d1	D1	D2	t
15	32	4	6	1	3	21	29	34	0.5
17	34	4	6	1	3	23	31	36	0.5
20	37	4	6	1	3	26	34	39	0.5
25	42	4	6	1	3	31	39	44	0.5
26	43	4	6	1	3	32	40	45	0.5
30	48	4.5	6.5	1	3	37	45	50	0.5
32	53	6.5	8.5	1	3	39	50	55	0.5
33.34	53.1	6.6	8.6	1	3	40.3	50	55	0.5
35	53	4.5	6.5	1	3	42	50	55	0.5
40	58	4.5	6.5	1	3	47	55	60	0.5
41.28	57.9	6.6	8.6	1	3	48.3	55	60	0.5
44.45	63	6.6	8.6	1	3	51.5	60	65	0.5
44.45	74	6.6	8.6	1	3	51.5	71.2	76.2	0.5
45	63	4.5	6.5	1	3	52	60	65	0.5
50	72	5.5	7.5	1	3	58	68.5	74	0.75
55	77	5.5	7.5	1	3	63	73.5	79	0.75
60	82	5.5	7.5	1	3	68	78.5	84	0.75
65	87	5.5	7.5	1	3	73	83.5	89	0.75
70	92	5.5	7.5	1	3	78	88.5	94	0.75
75	97	5.5	7.5	1	3	83	93.5	99	0.75
80	102	5.5	7.5	1	3	88	98.5	104	0.75
85	107	5.5	7.5	1	3	93	103.5	109	0.75
90	112	5.5	7.5	1	3	98	108.5	114	0.75
95	117	5.5	7.5	1	3	103	113.5	119	0.75
100	122	5.5	7.5	1	3	108	118.5	124	0.75
110	132.08	5.5	7.5	1	3	118	128.5	134	0.75

Tobar

Seal Type WPB



TYPE	d	D	H	d	D	H
WPB	0250	0437	125	1/4	7/16	1/8
WPB	0312	0566	125	5/16		1/8
WPB	0312	0625	156	5/16	5/8	5/32
WPB	0375	0562	094	3/8	9/16	3/32
WPB	0375	0625	125	3/8	5/8	1/8
WPB	0375	0687	157	3/8	11/16	5/32
WPB	0469	0836	187	15/32		3/16
WPB	0500	0750	125	1/2	3/4	1/8
WPB	0562	0812	125	9/16	13/16	1/8
WPB	0625	0875	125	5/8	7/8	1/8
WPB	0625	1062	250	5/8	1 1/16	1/4
WPB	0625	1250	250	5/8	1 1/4	1/4
WPB	0687	0937	125	11/16	15/16	1/8
WPB	0687	0999	187	11/16	1	3/16
WPB	0750	1000	125	3/4	1	1/8
WPB	0750	1125	187	3/4	1 1/8	3/16
WPB	0750	1250	250	3/4	1 1/4	1/4
WPB	20	28	4			
WPB	0875	1125	125	7/8	1 1/8	1/8
WPB	0875	1125	125	7/8	1 1/8	1/8
WPB	0875	1250	187	7/8	1 1/4	3/16
WPB	23	28	3			
WPB	0937	1187	125	15/16	1 3/16	1/8
WPB	24.8	42	4.8			
WPB	1000	1250	125	1	1 1/4	1/8
WPB	1000	1375	187	1	1 3/8	3/16
WPB	1000	1500	187	1	1 1/2	3/16
WPB	1000	1500	312	1	1 1/2	5/16
WPB	1000	1625	250	1	1 5/8	1/4
WPB	1061	1312	125	1 1/16	1 5/16	1/8
WPB	1062	1500	187	1 1/16	1 1/2	3/16
WPB	1062	1500	187	1 1/16	1 1/2	3/16
WPB	1125	1375	125	1 1/8	1 3/8	1/8
WPB	1125	1500	187	1 1/8	1 1/2	3/16
WPB	1125	1561	250	1 1/8		1/4

TYPE	d	D	H	d	D	H
WPB	1125	1625	187	1 1/8	1 5/8	3/16
WPB	1125	1625	250	1 1/8	1 5/8	1/4
WPB	1187	1562	187	1 3/16	1 9/16	3/16
WPB	1250	1500	125	1 1/4	1 1/2	1/8
WPB	1250	1625	250	1 1/4	1 5/8	1/4
WPB	1250	1687	187	1 1/4	1 11/16	3/16
WPB	1250	1687	187	1 1/4	1 11/16	3/16
WPB	1250	1690	187	1 1/4		3/16
WPB	1250	1752	250	1 1/4		1/4
WPB	1312	1562	125	1 5/16	1 9/16	1/8
WPB	1375	1625	125	1 3/8	1 5/8	1/8
WPB	1375	1750	187	1 3/8	1 3/4	3/16
WPB	1375	1875	250	1 3/8	1 7/8	1/4
WPB	1375	2000	312	1 3/8	2	5/16
WPB	1488	2442	186			3/16
WPB	1500	1750	375	1 1/2	1 3/4	3/8
WPB	1500	1875	187	1 1/2	1 7/8	3/16
WPB	1500	1875	250	1 1/2	1 7/8	1/4
WPB	1500	2000	250	1 1/2	2	1/4
WPB	1500	2000	250	1 1/2	2	1/4
WPB	1500	2000	312	1 1/2	2	5/16
WPB	1500	2437	250	1 1/2	2 7/16	1/4
WPB	1562	2062	203	1 9/16	2 1/16	13/64
WPB	1625	2000	187	1 5/8	2	3/16
WPB	1625	2125	250	1 5/8	2 1/8	1/4
WPB	1750	2125	187	1 3/4	2 1/8	3/16
WPB	1750	2250	187	1 3/4	2 1/4	3/16
WPB	1750	2250	250	1 3/4	2 1/4	1/4
WPB	1750	2250	312	1 3/4	2 1/4	5/16
WPB	1750	2375	250	1 3/4	2 3/8	1/4
WPB	1750	2437	375	1 3/4	2 7/16	3/8
WPB	1750	2623	250	1 3/4		1/4
WPB	1875	2250	187	1 7/8	2 1/4	3/16
WPB	1875	2500	250	1 7/8	2 1/2	1/4
WPB	2000	2375	187	2	2 3/8	3/16
WPB	2000	2500	250	2	2 1/2	1/4
WPB	2000	2623	250	2		1/4
WPB	2000	2625	250	2	2 5/8	1/4
WPB	2000	2625	250	2	2 5/8	1/4
WPB	2000	2686	250	2		1/4
WPB	2125	2500	187	2 1/8	2 1/2	3/16
WPB	2250	2625	187	2 1/4	2 5/8	3/16
WPB	2250	2625	250	2 1/4	2 5/8	1/4
WPB	2250	2750	250	2 1/4	2 3/4	1/4
WPB	2375	2875	250	2 3/8	2 7/8	1/4
WPB	2500	3000	250	2 1/2	3	1/4
WPB	2625	3125	250	2 5/8	3 1/8	1/4
WPB	2750	3125	187	2 3/4	3 1/8	3/16
WPB	2750	3250	250	2 3/4	3 1/4	1/4
WPB	2875	3371	250	2 7/8		1/4
WPB	3000	3500	250	3	3 1/2	1/4
WPB	3250	3750	250	3 1/4	3 3/4	1/4
WPB	3500	3875	187	3 1/2	3 7/8	3/16
WPB	3500	4003	250	3 1/2		1/4



Tobar

oil seal size listing



Tobar

oil seal size listing

Shaft	Bore	Width	Lip Style	Material
0.091	0.500	0.252	KC	R2
0.125	0.500	0.252	VC	R2
0.126	0.500	0.252	KC	R2
0.157	0.354	0.118	VC	R2
0.157	0.630	0.236	SC	R2
0.157	0.709	0.157	VC	R2
0.169	0.705	0.236	KC	V3
0.177	0.591	0.197	TC	R2
0.177	0.630	0.197	TC	R2
0.177	0.630	0.276	KC	R2
0.177	0.630	0.276	TC	R2
0.177	0.669	0.276	TC	R2
0.177	0.709	0.276	TC	R2
0.177	1.024	0.197	VC	R2
0.177	1.024	0.315	VC	R2
0.187	0.437	0.126	WPC	R4
0.188	0.394	0.126	WPC	R4
0.189	0.500	0.126	VB	C2
0.189	0.571	0.157	KC	R2
0.189	0.571	0.157	VC	R2
0.189	0.591	0.157	KC	R2
0.189	0.591	0.157	VC	R2
0.189	0.591	0.197	TC	R2
0.189	0.866	0.276	KC	R2
0.189	0.866	0.276	SC	R2
0.197	0.354	0.079	VB	G2
0.197	0.394	0.157	VC	R2
0.197	0.433	0.118	VC	R2
0.197	0.512	0.252	KBR	G2
0.197	0.512	0.315	KBR	G2
0.197	0.551	0.157	VC	R2
0.197	0.551	0.197	KB	G2
0.197	0.554	0.201	KBR	G2
0.197	0.591	0.236	SC	R2
0.197	0.591	0.236	TC	R2
0.197	0.591	0.236	VC	R2
0.197	0.630	0.236	TC	R2
0.197	0.630	0.315	KC	R2
0.197	0.669	0.276	TC	R2
0.197	0.709	0.236	TC	R2
0.197	0.709	0.276	TC	R2
0.197	0.709	0.394	TC	R2
0.197	0.748	0.276	TC	R2
0.197	0.866	0.276	TC	R2
0.197	1.181	0.236	TB	G2
0.217	0.354	0.118	VC	R2
0.217	0.433	0.157	VC	R2
0.217	0.709	0.315	TC	R2
0.217	0.866	0.315	TC	R2
0.236	0.394	0.079	VB	G2
0.236	0.394	0.079	VB	C2
0.236	0.394	0.098	VC	R2
0.236	0.394	0.157	VC	R2
0.236	0.433	0.157	VC	R2

Shaft	Bore	Width	Lip Style	Material
0.236	0.433	0.177	VC	RV
0.236	0.472	0.079	VB	G2
0.236	0.472	0.177	SC	R2
0.236	0.472	0.197	VC	R2
0.236	0.472	0.217	SC	R2
0.236	0.472	0.315	TC	R2
0.236	0.500	0.150	VBR	CV
0.236	0.512	0.189	WPC	R4
0.236	0.551	0.157	VC	R2
0.236	0.591	0.157	SC	R2
0.236	0.591	0.276	SC	R2
0.236	0.630	0.197	SC	R2
0.236	0.630	0.197	TC	R2
0.236	0.630	0.236	TC	R2
0.236	0.630	0.276	SC	R2
0.236	0.630	0.276	TC	R2
0.236	0.669	0.276	TC	R2
0.236	0.709	0.177	VC	R2
0.236	0.709	0.197	KC	R2
0.236	0.709	0.236	TC	R2
0.236	0.709	0.276	TC	R2
0.236	0.748	0.197	VC	R2
0.236	0.748	0.276	TC	R2
0.236	0.748	0.276	VC	R2
0.236	0.787	0.217	TC	R2
0.236	0.827	0.276	TC	R2
0.236	0.866	0.276	SC	R2
0.236	0.866	0.276	TC	R2
0.236	0.866	0.276	VC	R2
0.236	0.866	0.315	TC	R2
0.236	0.984	0.236	SC	R2
0.236	0.984	0.315	SC	R2
0.236	0.984	0.315	TC	R2
0.236	1.024	0.276	TC	R2
0.236	1.378	0.276	TC	R2
0.250	0.499	0.189	VC	R2
0.250	0.500	0.185	VB	CPA
0.250	0.750	0.252	SC	RV
0.250	0.750	0.252	SC	R2
0.250	0.875	0.126	SC	R2
0.250	0.875	0.252	SC	R2
0.250	1.000	0.500	DC	RV
0.252	0.437	0.126	WPB	G4
0.252	0.500	0.126	VC	R2
0.252	0.500	0.126	VC	R2
0.252	0.500	0.154	VBR	CPA
0.252	0.500	0.252	SC	R2
0.252	0.625	0.157	SC	R2
0.252	0.625	0.157	SC	R2
0.252	0.625	0.157	VB	P2
0.252	0.635	0.189	SC	R2
0.252	0.750	0.236	SB	C2
0.252	0.750	0.252	SB	G2
0.252	0.750	0.252	SB	PPA

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oil seal size listing

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Shaft	Bore	Width	Lip Style	Material
0.252	0.750	0.252	TB	G2
0.252	0.750	0.252	VC	R2
0.252	0.750	0.374	DC	R2
0.252	0.875	0.252	TB	P2
0.252	1.000	0.252	TC	R2
0.252	1.000	0.500	DC	R2
0.256	0.571	0.276	KC	R2
0.256	0.571	0.276	TC	R2
0.268	0.866	0.276	TC	R2
0.276	0.433	0.079	VB	C2
0.276	0.512	0.157	VC	R2
0.276	0.541	0.157	VC	R2
0.276	0.551	0.157	VC	R2
0.276	0.591	0.197	SC	R2
0.276	0.591	0.276	KC	R2
0.276	0.630	0.276	SC	RV
0.276	0.630	0.276	TC	R2
0.276	0.669	0.197	TC	R2
0.276	0.669	0.276	TC	R2
0.276	0.709	0.177	SC	R2
0.276	0.709	0.256	SC	R2
0.276	0.709	0.276	TC	R2
0.276	0.748	0.276	TC	R2
0.276	0.787	0.197	VC	R2
0.276	0.787	0.276	TC	R2
0.276	0.866	0.236	TC	R2
0.276	0.866	0.276	SC	R2
0.276	0.866	0.276	TC	R2
0.276	0.866	0.315	TC	R2
0.276	0.992	0.217	KC	R2
0.276	1.024	0.217	KC	R2
0.276	1.220	0.197	SC	R2
0.276	1.220	0.276	TC	R2
0.280	0.425	0.138	VB	C2
0.295	0.625	0.232	SC	R2
0.295	0.748	0.177	VC	R2
0.307	0.539	0.098	VC	R2
0.311	0.433	0.079	VC	RPA
0.311	0.500	0.098	VB	C2
0.311	0.562	0.236	VC	RV
0.311	0.563	0.126	SC	R2
0.311	0.566	0.126	WPB	G4
0.311	0.575	0.189	VBR	G2
0.311	0.624	0.252	TBR	GV
0.311	0.625	0.126	SC	R2
0.311	0.625	0.150	VB	G2
0.311	0.625	0.157	SC	R2
0.311	0.626	0.157	WPB	G4
0.311	0.750	0.252	KC	V3
0.311	0.750	0.252	TB	G2
0.311	1.125	0.315	DC	R2
0.312	0.750	0.252	TC	R2
0.313	0.500	0.126	VC	R2
0.313	0.750	0.252	SC	R2

Shaft	Bore	Width	Lip Style	Material
0.313	0.750	0.311	SC	RV
0.313	0.875	0.252	SC	R2
0.315	0.472	0.118	VB	G2
0.315	0.472	0.118	VC	R2
0.315	0.472	0.118	VC	R2
0.315	0.472	0.157	KC	R2
0.315	0.472	0.157	VC	R2
0.315	0.531	0.197	TB	G2
0.315	0.551	0.157	KC	R2
0.315	0.551	0.157	SB	GV
0.315	0.551	0.157	SC	R2
0.315	0.551	0.157	VB	C2
0.315	0.551	0.157	VB	C2
0.315	0.551	0.157	VC	R2
0.315	0.551	0.197	SC	R2
0.315	0.551	0.197	TC	R2
0.315	0.551	0.236	TB	G2
0.315	0.551	0.276	TC	R2
0.315	0.577	0.197	TB	G2
0.315	0.591	0.197	TB	G2
0.315	0.591	0.197	TC	R2
0.315	0.591	0.197	VC	R2
0.315	0.591	0.315	SB	G2
0.315	0.630	0.157	SC	R2
0.315	0.630	0.157	VC	R2
0.315	0.630	0.197	SB	G2
0.315	0.630	0.197	SC	R2
0.315	0.630	0.197	TC	R2
0.315	0.630	0.217	KC	V3
0.315	0.630	0.236	KC	R2
0.315	0.630	0.236	SC	R2
0.315	0.630	0.236	TC	R2
0.315	0.630	0.276	SB	G2
0.315	0.630	0.276	SC	R2
0.315	0.630	0.276	TC	R2
0.315	0.630	0.394	DC	R2
0.315	0.669	0.276	TC	R2
0.315	0.701	0.197	VC	R2
0.315	0.709	0.157	KC	R2
0.315	0.709	0.197	KC	R2
0.315	0.709	0.197	SC	R2
0.315	0.709	0.197	TC	R2
0.315	0.709	0.236	TC	R2
0.315	0.709	0.276	TC	R2
0.315	0.709	0.315	TC	R2
0.315	0.748	0.157	SC	R2
0.315	0.748	0.276	TC	R2
0.315	0.787	0.197	TC	R2
0.315	0.787	0.276	TC	R2
0.315	0.827	0.236	SC	R2
0.315	0.827	0.236	TC	R2
0.315	0.866	0.157	TB	G2
0.315	0.866	0.236	SC	R2
0.315	0.866	0.236	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.315	0.866	0.276	SB	G2
0.315	0.866	0.276	SC	RPA
0.315	0.866	0.276	SC	R2
0.315	0.866	0.276	TC	R2
0.315	0.866	0.315	SC	R2
0.315	0.866	0.394	TC	R2
0.315	0.906	0.197	TC	R2
0.315	0.906	0.276	TC	R2
0.315	0.945	0.177	SC	R2
0.315	0.945	0.276	SC	R2
0.315	0.945	0.276	TC	R2
0.315	0.984	0.236	SC	R2
0.315	0.984	0.276	SC	R2
0.315	0.984	0.276	TC	R2
0.315	0.984	0.315	TC	R2
0.315	0.984	0.354	TC	R2
0.315	1.024	0.236	SC	R2
0.315	1.024	0.276	TC	R2
0.315	1.102	0.197	SC	R2
0.315	1.102	0.197	TC	R2
0.315	1.181	0.236	TC	R2
0.315	1.181	0.276	TC	R2
0.315	1.339	0.315	TC	R2
0.315	1.339	0.315	TC	R2
0.327	0.750	0.252	SC	R2
0.327	0.836	0.311	SA2	G2
0.335	0.630	0.256	SC	R2
0.339	0.551	0.118	VC	R2
0.346	0.709	0.157	TC	RV
0.346	0.709	0.157	TC	RV
0.348	0.669	0.157	VC	R2
0.348	0.669	0.197	TC	RPA
0.348	0.787	0.157	VC	R2
0.348	0.787	0.197	TC	R2
0.348	0.827	0.197	TC	R2
0.354	0.498	0.118	VB	G2
0.354	0.512	0.118	VB	G2
0.354	0.630	0.157	SC	R2
0.354	0.630	0.197	SB	G2
0.354	0.630	0.217	TC	R2
0.354	0.669	0.177	SB	G2
0.354	0.689	0.157	VC	R2
0.354	0.709	0.197	VC	R2
0.354	0.709	0.236	SB	G2
0.354	0.709	0.276	SC	R2
0.354	0.709	0.276	TC	RPA
0.354	0.748	0.157	SC	RV
0.354	0.748	0.197	KC	R2
0.354	0.748	0.197	SB	G2
0.354	0.748	0.197	SC	R2
0.354	0.748	0.197	TC	R2
0.354	0.748	0.276	TB	G2
0.354	0.748	0.276	TC	R2
0.354	0.787	0.157	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.354	0.787	0.276	TC	R2
0.354	0.827	0.177	SC	R2
0.354	0.866	0.276	SC	RV
0.354	0.866	0.276	TC	R2
0.354	0.945	0.276	TC	R2
0.354	0.984	0.276	TC	R2
0.354	1.024	0.276	SC	R2
0.354	1.024	0.276	TC	R2
0.354	1.142	0.276	TC	R2
0.354	1.181	0.276	TC	R2
0.374	0.563	0.094	VB	G2
0.374	0.563	0.094	VB	P2
0.374	0.563	0.094	WPC	R4
0.374	0.563	0.126	KC	R2
0.374	0.625	0.126	WPB	G4
0.374	0.625	0.189	KC	R2
0.374	0.630	0.157	KC	R2
0.374	0.650	0.106	VB	C2
0.374	0.687	0.157	TBR	P2
0.374	0.687	0.157	TC	R2
0.374	0.687	0.157	VC	R2
0.374	0.687	0.157	WPB	G4
0.374	0.687	0.157	WPB	G4
0.374	0.687	0.311	VBR	G2
0.374	0.728	0.217	SB	G2
0.374	0.748	0.252	SC	R2
0.374	0.750	0.157	SC	R2
0.374	0.750	0.189	WPC	R4
0.374	0.750	0.252	DC	R2
0.374	0.750	0.252	SB	P2
0.374	0.750	0.252	SC	R2
0.374	0.750	0.252	TBR	G2
0.374	0.750	0.252	TC	R2
0.374	0.750	0.252	VB	G2
0.374	0.750	0.252	VC	R2
0.374	0.750	0.280	SC	R2
0.374	0.817	0.252	VC	R2
0.374	0.875	0.252	TB2	C2
0.374	0.875	0.252	TC	R2
0.374	0.875	0.252	VB	P2
0.374	0.875	0.311	SC	R2
0.374	0.937	0.189	VB	C2
0.374	0.999	0.311	SBR	C2
0.374	1.000	0.374	SC	R2
0.375	0.563	0.094	WPB	G4
0.375	0.625	0.126	VB	G2
0.375	0.700	0.150	SC	R2
0.375	0.750	0.169	VC	R2
0.375	0.750	0.252	TB	G2
0.375	0.750	0.252	TB2	P2
0.375	0.836	0.189	SB2	P2
0.375	0.875	0.252	SB2	C2
0.375	1.000	0.252	SC	R2
0.390	0.900	0.252	SC	R2

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Shaft	Bore	Width	Lip Style	Material
0.391	0.700	0.157	SC	RPA
0.394	0.551	0.118	VB	G2
0.394	0.551	0.157	KC	R2
0.394	0.591	0.118	VB	GV
0.394	0.591	0.118	VC	R2
0.394	0.591	0.157	VC	R2
0.394	0.630	0.157	SC	R2
0.394	0.630	0.157	TC	R2
0.394	0.630	0.157	VB	G2
0.394	0.630	0.177	TC	R2
0.394	0.630	0.197	SC	R2
0.394	0.630	0.236	SB	C2
0.394	0.630	0.276	TC	R2
0.394	0.669	0.118	VB	G2
0.394	0.669	0.138	VC	R2
0.394	0.669	0.177	SB	G2
0.394	0.669	0.197	SB	G2
0.394	0.669	0.197	SBR	G2
0.394	0.669	0.197	TC	R2
0.394	0.669	0.197	VC	R2
0.394	0.669	0.236	SC	R2
0.394	0.669	0.276	TC	R2
0.394	0.709	0.157	SC	R2
0.394	0.709	0.157	TC	R2
0.394	0.709	0.197	KC	R2
0.394	0.709	0.197	SC	R2
0.394	0.709	0.197	TC	R2
0.394	0.709	0.236	SC	R2
0.394	0.709	0.236	TC	R2
0.394	0.709	0.276	TC	R2
0.394	0.740	0.205	SB2	CV
0.394	0.748	0.157	SC	R2
0.394	0.748	0.157	VC	R2
0.394	0.748	0.197	TBR	C2
0.394	0.748	0.236	SC	R2
0.394	0.748	0.276	SC	R2
0.394	0.748	0.276	TC	R2
0.394	0.748	0.394	TC	R2
0.394	0.787	0.157	SC	R2
0.394	0.787	0.197	SB	G2
0.394	0.787	0.197	SC	R2
0.394	0.787	0.197	TC	RPA
0.394	0.787	0.197	TC	R2
0.394	0.787	0.197	VC	R2
0.394	0.787	0.236	SC	R2
0.394	0.787	0.236	TC	R2
0.394	0.787	0.276	TB	G2
0.394	0.787	0.276	TC	R2
0.394	0.787	0.315	DC	R2
0.394	0.827	0.157	TC	R2
0.394	0.827	0.197	SC	R2
0.394	0.827	0.236	SC	RV
0.394	0.827	0.236	TC	R2
0.394	0.827	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.394	0.827	0.354	DC	R2
0.394	0.866	0.118	VC	R2
0.394	0.866	0.157	SC	RV
0.394	0.866	0.157	TC	R2
0.394	0.866	0.197	TC	R2
0.394	0.866	0.236	TC	R2
0.394	0.866	0.276	SC	R2
0.394	0.866	0.276	TC	R2
0.394	0.866	0.315	DC	R2
0.394	0.866	0.315	TC	R2
0.394	0.906	0.276	TC	R2
0.394	0.906	0.315	TC	R2
0.394	0.925	0.276	TC	R2
0.394	0.925	0.394	TC	R2
0.394	0.945	0.157	TC	R2
0.394	0.945	0.157	VC	R2
0.394	0.945	0.236	TC	R2
0.394	0.945	0.276	SC	R2
0.394	0.945	0.276	TC	R2
0.394	0.945	0.315	DC	R2
0.394	0.984	0.197	SC	R2
0.394	0.984	0.197	TC	R2
0.394	0.984	0.276	TC	R2
0.394	0.984	0.394	TC	R2
0.394	1.000	0.252	TB	GV
0.394	1.000	0.252	TC	RV
0.394	1.024	0.217	SC	R2
0.394	1.024	0.276	SC	RV
0.394	1.024	0.276	SC	R2
0.394	1.024	0.276	TC	R2
0.394	1.024	0.315	TC	R2
0.394	1.024	0.354	DC	R2
0.394	1.056	0.276	DC	R2
0.394	1.102	0.276	SC	R2
0.394	1.102	0.276	TC	R2
0.394	1.102	0.315	TC	R2
0.394	1.102	0.394	TC	R2
0.394	1.181	0.276	SB	G2
0.394	1.181	0.276	SC	R2
0.394	1.181	0.276	TC	R2
0.394	1.181	0.394	TC	R2
0.394	1.378	0.315	TC	R2
0.402	1.024	0.177	VB	C2
0.406	0.875	0.311	SC	R2
0.409	1.004	0.209	KB	PPA
0.422	0.623	0.118	VC	R2
0.425	0.787	0.354	SC	R2
0.425	0.787	0.354	VC	R2
0.426	0.823	0.252	SC	RV
0.426	0.875	0.311	SB	G2
0.433	0.591	0.118	VB	C2
0.433	0.669	0.118	VB	G2
0.433	0.669	0.118	VC	R2
0.433	0.669	0.157	SB	PV



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Shaft	Bore	Width	Lip Style	Material
0.433	0.669	0.157	SC	R2
0.433	0.669	0.157	TC	R2
0.433	0.669	0.236	VC	R2
0.433	0.709	0.157	SC	R2
0.433	0.709	0.197	SBR	G2
0.433	0.709	0.197	TBR	C2
0.433	0.709	0.236	SBR	G2
0.433	0.787	0.157	TB	G3
0.433	0.787	0.177	SBR	G2
0.433	0.787	0.177	TB	G3
0.433	0.787	0.276	TC	R2
0.433	0.827	0.276	TC	R2
0.433	0.827	0.315	DC	R2
0.433	0.827	0.315	TC	R2
0.433	0.866	0.236	TC	RV
0.433	0.866	0.276	SB	CS
0.433	0.866	0.276	SC	RPA
0.433	0.866	0.276	SC	R2
0.433	0.866	0.276	TC	R2
0.433	0.906	0.276	TC	R2
0.433	0.925	0.276	TC	R2
0.433	0.945	0.276	TC	R2
0.433	0.984	0.276	TC	R2
0.433	1.024	0.276	SC	R2
0.433	1.024	0.276	TC	R2
0.433	1.102	0.276	TC	R2
0.433	1.142	0.276	TC	R2
0.433	1.181	0.276	TC	R2
0.433	1.181	0.394	TC	R2
0.437	0.625	0.126	VB	C2
0.437	0.625	0.126	VC	R2
0.437	0.650	0.098	VB	C2
0.437	0.687	0.126	VB	C2
0.437	0.750	0.252	SBR	G2
0.437	0.750	0.287	KC	R2
0.437	0.750	0.295	KC	R2
0.437	0.836	0.189	VB	C2
0.437	0.836	0.189	VB	G2
0.437	0.875	0.189	TC	R2
0.437	0.875	0.189	WPB	G4
0.437	0.875	0.220	SC	R2
0.437	0.875	0.252	SB2	PPA
0.437	0.875	0.252	TB	G2
0.437	0.875	0.252	TB2	P2
0.437	0.875	0.252	TBR	G2
0.437	0.875	0.252	TC	R2
0.437	0.875	0.311	SB	G2
0.437	0.875	0.315	SBR	GPA
0.437	0.937	0.189	SB	P2
0.437	0.937	0.252	SC	R2
0.437	0.941	0.189	SB	G2
0.437	0.941	0.201	SB	C2
0.437	0.999	0.252	SB	PV

Shaft	Bore	Width	Lip Style	Material
0.437	0.999	0.374	SB	P2
0.437	0.999	0.374	SBR	G2
0.437	1.000	0.252	SBR	G2
0.437	1.000	0.252	SC	R2
0.437	1.000	0.374	SC	R2
0.437	1.124	0.252	SA2	P2
0.437	1.125	0.252	SB2	C2
0.437	1.259	0.252	TC	R2
0.453	0.875	0.189	VB	C2
0.457	0.748	0.236	TC	R2
0.457	0.866	0.276	TC	R2
0.457	0.945	0.394	SC	R2
0.457	0.945	0.394	TC	R2
0.465	0.866	0.276	SC	R2
0.469	0.703	0.126	VB	C2
0.469	0.718	0.126	VB	C2
0.469	0.750	0.295	KC	R2
0.469	0.750	0.295	KC	R2
0.469	0.836	0.189	WPB	G4
0.469	0.875	0.189	SC	R2
0.469	0.875	0.189	TC	R2
0.469	0.875	0.220	VB	G2
0.469	0.875	0.252	VB2	G2
0.469	0.875	0.311	TB2	P2
0.469	0.984	0.177	VC	R2
0.469	0.984	0.197	SC	R2
0.472	0.630	0.098	VC	R2
0.472	0.630	0.118	VB	G2
0.472	0.669	0.098	VC	R2
0.472	0.669	0.197	VC	R2
0.472	0.669	0.236	VC	R2
0.472	0.709	0.118	VB	G2
0.472	0.709	0.118	VC	R2
0.472	0.709	0.157	KC	R2
0.472	0.709	0.157	SB	G2
0.472	0.709	0.157	SC	R2
0.472	0.709	0.157	VC	R2
0.472	0.709	0.177	TBR	C2
0.472	0.709	0.197	TC	R2
0.472	0.709	0.197	VB	G2
0.472	0.709	0.197	VC	R2
0.472	0.709	0.236	SBR	G2
0.472	0.718	0.126	VC	R2
0.472	0.718	0.126	VC	R2
0.472	0.748	0.118	TC	R2
0.472	0.748	0.118	VB	G2
0.472	0.748	0.118	VC	R2
0.472	0.748	0.177	VBR	G2
0.472	0.748	0.197	SB	C2
0.472	0.748	0.197	SC	R2
0.472	0.748	0.197	TC	R2
0.472	0.748	0.197	TC	R2
0.472	0.748	0.276	TC	R2
0.472	0.787	0.157	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.472	0.787	0.157	VC	R2
0.472	0.787	0.197	SB	G2
0.472	0.787	0.197	SC	R2
0.472	0.787	0.197	TB	G2
0.472	0.787	0.197	TC	R2
0.472	0.787	0.197	VB	G2
0.472	0.787	0.217	TB	G2
0.472	0.787	0.236	SC	R2
0.472	0.787	0.236	TC	R2
0.472	0.787	0.276	DC	R2
0.472	0.787	0.276	TC	R2
0.472	0.827	0.157	KC	R2
0.472	0.827	0.157	SC	R2
0.472	0.827	0.157	TC	R2
0.472	0.827	0.197	SC	R2
0.472	0.827	0.276	TC	R2
0.472	0.866	0.118	VC	R2
0.472	0.866	0.142	KC	R2
0.472	0.866	0.157	SB	C2
0.472	0.866	0.157	SC	R2
0.472	0.866	0.157	TC	R2
0.472	0.866	0.157	VC	R2
0.472	0.866	0.177	TC	RV
0.472	0.866	0.197	SB	G2
0.472	0.866	0.197	SC	R2
0.472	0.866	0.197	TC	R2
0.472	0.866	0.236	SC	R2
0.472	0.866	0.236	TC	R2
0.472	0.866	0.276	KC	R2
0.472	0.866	0.276	SB	G2
0.472	0.866	0.276	SC	R2
0.472	0.866	0.276	SC	R2
0.472	0.866	0.276	SC	R2
0.472	0.866	0.276	TC	R2
0.472	0.866	0.276	TC	RV
0.472	0.866	0.276	TC	RPA
0.472	0.866	0.276	TC	R2
0.472	0.866	0.315	DC	R2
0.472	0.866	0.315	TC	R2
0.472	0.866	0.354	TC	R2
0.472	0.906	0.276	TC	R2
0.472	0.906	0.315	TB	G2
0.472	0.906	0.315	TC	R2
0.472	0.925	0.276	TC	R2
0.472	0.945	0.157	VC	R2
0.472	0.945	0.177	SC	R2
0.472	0.945	0.197	SC	R2
0.472	0.945	0.236	SC	R2
0.472	0.945	0.236	TC	R2
0.472	0.945	0.276	SB	G2
0.472	0.945	0.276	SC	RV
0.472	0.945	0.276	SC	R2
0.472	0.945	0.276	TC	R2
0.472	0.945	0.315	DC	R2

Shaft	Bore	Width	Lip Style	Material
0.472	0.945	0.315	TC	R2
0.472	0.984	0.157	SC	R2
0.472	0.984	0.177	SC	R2
0.472	0.984	0.177	VC	R2
0.472	0.984	0.197	SB2	G2
0.472	0.984	0.197	SC	R2
0.472	0.984	0.197	TC	R2
0.472	0.984	0.236	TC	R2
0.472	0.984	0.276	SC	R2
0.472	0.984	0.276	TC	R2
0.472	0.984	0.315	TC	R2
0.472	0.984	0.394	TC	R2
0.472	1.004	0.276	TC	R2
0.472	1.024	0.177	SC	R2
0.472	1.024	0.236	SC	R2
0.472	1.024	0.276	TC	R2
0.472	1.024	0.276	TC	R2
0.472	1.024	0.315	SC	R2
0.472	1.024	0.315	TC	R2
0.472	1.063	0.276	TC	R2
0.472	1.063	0.354	TC	R2
0.472	1.102	0.197	SC	R2
0.472	1.102	0.236	SC	R2
0.472	1.102	0.276	SB2	G2
0.472	1.102	0.276	SC	R2
0.472	1.102	0.276	TC	R2
0.472	1.102	0.315	DC	R2
0.472	1.102	0.315	SC	R2
0.472	1.102	0.315	TC	R2
0.472	1.122	0.197	SC	R2
0.472	1.122	0.217	SC	R2
0.472	1.122	0.276	TC	R2
0.472	1.181	0.197	SC	R2
0.472	1.181	0.197	TC	R2
0.472	1.181	0.236	SC	R2
0.472	1.181	0.276	SC	R2
0.472	1.181	0.276	TC	R2
0.472	1.181	0.354	TC	R2
0.472	1.181	0.394	TC	R2
0.472	1.260	0.197	SC	R2
0.472	1.260	0.197	TC	R2
0.472	1.260	0.236	SB2	C2
0.472	1.260	0.276	SB2	G2
0.472	1.260	0.276	SC	R2
0.472	1.260	0.276	TB2	G2
0.472	1.260	0.276	TC	R2
0.472	1.260	0.394	SC	R2
0.472	1.260	0.394	TC	R2
0.472	1.339	0.276	TC	R2
0.472	1.378	0.197	SC	R2
0.472	1.378	0.276	TC	R2
0.472	1.378	0.394	SC	R2
0.472	1.378	0.394	TC	R2
0.472	1.457	0.276	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.472	1.457	0.394	SC	R2
0.472	1.772	0.276	SC	R2
0.472	1.772	0.276	TC	R2
0.490	0.866	0.276	TC	R2
0.492	0.866	0.236	SC	RPA
0.492	0.866	0.236	TC	RPA
0.492	0.875	0.252	VC	R2
0.492	0.925	0.315	TC	R2
0.492	0.925	0.394	TC	R2
0.492	0.984	0.236	SB	C2
0.492	0.984	0.315	TC	R2
0.492	1.122	0.276	TC	R2
0.498	0.906	0.087	VC	R2
0.500	0.687	0.098	VC	R2
0.500	0.748	0.157	KC	R2
0.500	0.750	0.126	SB	C2
0.500	0.750	0.126	VB	G2
0.500	0.750	0.126	VC	R2
0.500	0.750	0.126	WPB	G4
0.500	0.750	0.173	VC	R2
0.500	0.750	0.193	VBR	C2
0.500	0.750	0.295	KC	P2
0.500	0.766	0.281	SC	R2
0.500	0.778	0.197	VB	C2
0.500	0.801	0.189	SB	C2
0.500	0.813	0.157	TC	R2
0.500	0.843	0.252	VB2	P2
0.500	0.863	0.189	SC	RV
0.500	0.874	0.311	SA2	CV
0.500	0.875	0.126	VC	R2
0.500	0.875	0.189	DC	R2
0.500	0.875	0.189	SB2	G2
0.500	0.875	0.220	VB	G2
0.500	0.875	0.252	SC	R2
0.500	0.875	0.252	TB	GV
0.500	0.875	0.252	VB	P2
0.500	0.875	0.311	SB	P2
0.500	0.875	0.311	SC	R2
0.500	0.875	0.311	TB	P2
0.500	0.875	0.315	TC	R2
0.500	0.886	0.217	TC	R2
0.500	0.900	0.252	SC	R2
0.500	0.999	0.252	TB2	P2
0.500	0.999	0.252	VC	R2
0.500	0.999	0.374	TB	P2
0.500	1.000	0.177	VC	R2
0.500	1.000	0.189	SB	G2
0.500	1.000	0.201	SC	R2
0.500	1.000	0.252	SB	G2
0.500	1.000	0.252	SB	P2
0.500	1.000	0.252	SB2	P2
0.500	1.000	0.252	SC	RV
0.500	1.000	0.252	SC	R2
0.500	1.000	0.252	TB	G2

Shaft	Bore	Width	Lip Style	Material
0.500	1.000	0.252	TB2	CPA
0.500	1.000	0.252	TC	R2
0.500	1.000	0.374	SA2	P2
0.500	1.000	0.374	SC	R2
0.500	1.024	0.236	TC	R2
0.500	1.124	0.252	SC	R2
0.500	1.125	0.252	SB2	PV
0.500	1.125	0.252	TB2	G2
0.500	1.125	0.311	TC	R2
0.500	1.125	0.374	SA2	G2
0.500	1.250	0.189	SB	G2
0.500	1.250	0.252	SB2	P2
0.500	1.250	0.311	SC	RV
0.500	1.250	0.311	TC	R2
0.500	1.375	0.252	SB	C2
0.500	1.375	0.252	TC	R2
0.504	0.764	0.098	VC	R2
0.512	0.748	0.118	VC	R2
0.512	0.748	0.128	KB	C2
0.512	0.748	0.157	TB	G2
0.512	0.787	0.177	SC	R2
0.512	0.787	0.197	TBR	G2
0.512	0.787	0.197	TC	R2
0.512	0.787	0.197	VB	G2
0.512	0.787	0.217	TB	G2
0.512	0.866	0.157	SC	R2
0.512	0.866	0.197	SC	R2
0.512	0.866	0.197	TB	G2
0.512	0.866	0.197	TC	R2
0.512	0.866	0.236	SC	R2
0.512	0.866	0.236	TC	R2
0.512	0.866	0.276	TC	R2
0.512	0.906	0.276	TC	R2
0.512	0.945	0.197	SC	R2
0.512	0.945	0.236	SB	G2
0.512	0.945	0.236	SC	R2
0.512	0.945	0.276	SC	R2
0.512	0.945	0.276	TC	R2
0.512	0.984	0.197	SC	R2
0.512	0.984	0.197	TC	R2
0.512	0.984	0.276	SB	G2
0.512	0.984	0.276	TB	G2
0.512	0.984	0.276	TC	R2
0.512	0.984	0.276	TC	R2
0.512	0.984	0.394	TB	G2
0.512	1.024	0.276	SC	R2
0.512	1.024	0.276	TC	R2
0.512	1.024	0.354	TC	R2
0.512	1.024	0.394	DC	R2
0.512	1.063	0.276	TC	R2
0.512	1.102	0.197	TC	R2
0.512	1.102	0.276	SB2	G2
0.512	1.102	0.276	SC	RS
0.512	1.102	0.276	TC	R2
0.512	1.181	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.512	1.181	0.315	SC	R2
0.512	1.181	0.315	TC	R2
0.512	1.220	0.335	VC	R2
0.512	1.260	0.236	SC	R2
0.512	1.260	0.276	SC	R2
0.512	1.260	0.276	TC	R2
0.512	1.260	0.354	VC	R2
0.512	1.260	0.413	VB	G2
0.512	1.378	0.276	TC	R2
0.525	0.750	0.118	WPC	R4
0.531	0.875	0.126	VB	C2
0.531	0.999	0.252	TB2	G2
0.535	1.130	0.244	TB2	P2
0.539	0.945	0.197	SC	R2
0.539	0.945	0.197	TC	R2
0.539	0.984	0.197	TC	R3
0.543	0.945	0.197	TC	R2
0.551	0.650	0.118	VB	CPA
0.551	0.709	0.079	KB	C2
0.551	0.709	0.118	VB	G2
0.551	0.787	0.118	VB	G2
0.551	0.787	0.126	KC	R2
0.551	0.787	0.157	KC	R2
0.551	0.787	0.157	VC	R2
0.551	0.787	0.197	SC	R2
0.551	0.787	0.276	TC	R2
0.551	0.827	0.157	SC	R2
0.551	0.827	0.157	TC	R2
0.551	0.827	0.236	KC	R2
0.551	0.866	0.118	VB	G2
0.551	0.866	0.157	SC	R2
0.551	0.866	0.157	TC	R2
0.551	0.866	0.157	VB	G2
0.551	0.866	0.157	VC	R2
0.551	0.866	0.197	SB	G2
0.551	0.866	0.197	SC	R2
0.551	0.866	0.197	TC	R2
0.551	0.866	0.236	SC	R2
0.551	0.866	0.236	TC	RPA
0.551	0.866	0.276	SC	R2
0.551	0.866	0.276	TC	R2
0.551	0.906	0.236	TC	R2
0.551	0.945	0.157	KC	R2
0.551	0.945	0.157	TC	R2
0.551	0.945	0.157	VB	CPA
0.551	0.945	0.157	VC	R2
0.551	0.945	0.197	SC	R2
0.551	0.945	0.197	TC	R2
0.551	0.945	0.236	KC	R2
0.551	0.945	0.236	SB	G2
0.551	0.945	0.236	SC	R2
0.551	0.945	0.236	TB	G2
0.551	0.945	0.236	TC	R2
0.551	0.945	0.276	SC	R2

Shaft	Bore	Width	Lip Style	Material
0.551	0.945	0.276	TB	G2
0.551	0.945	0.276	TC	R2
0.551	0.945	0.299	SC	R2
0.551	0.945	0.315	SC	R2
0.551	0.945	0.315	TC	R2
0.551	0.984	0.157	TC	R2
0.551	0.984	0.197	SC	R2
0.551	0.984	0.197	TC	R2
0.551	0.984	0.197	VC	R2
0.551	0.984	0.236	SC	R2
0.551	0.984	0.276	TB	G2
0.551	0.984	0.276	TC	R2
0.551	0.984	0.354	TC	R2
0.551	1.024	0.197	SC	R2
0.551	1.024	0.236	SC	R2
0.551	1.024	0.236	TC	R2
0.551	1.024	0.276	SC	R2
0.551	1.024	0.276	TC	R2
0.551	1.024	0.315	SC	R2
0.551	1.024	0.315	TC	R2
0.551	1.024	0.374	DC	R2
0.551	1.063	0.236	SC	R2
0.551	1.063	0.276	SC	R2
0.551	1.063	0.276	TC	R2
0.551	1.063	0.394	TC	R2
0.551	1.102	0.236	SC	R2
0.551	1.102	0.276	SB2	G2
0.551	1.102	0.276	SC	R2
0.551	1.102	0.276	TC	R2
0.551	1.102	0.276	TC	R2
0.551	1.102	0.315	TB2	G2
0.551	1.102	0.315	TC	R2
0.551	1.102	0.394	SC	RV
0.551	1.122	0.276	TC	R2
0.551	1.142	0.276	TC	R2
0.551	1.181	0.157	SC	R2
0.551	1.181	0.276	SC	R2
0.551	1.181	0.276	TC	R2
0.551	1.181	0.295	TC	RPA
0.551	1.181	0.315	TC	R2
0.551	1.181	0.354	TC	R2
0.551	1.181	0.394	TC	R2
0.551	1.220	0.335	VC	R2
0.551	1.260	0.197	SC	R2
0.551	1.260	0.276	DC	R2
0.551	1.260	0.276	TB2	G2
0.551	1.260	0.276	TC	R2
0.551	1.260	0.295	TC	RPA
0.551	1.260	0.354	SC	R2
0.551	1.260	0.394	TC	R2
0.551	1.276	0.291	SC	R2
0.551	1.299	0.236	TC	R2
0.551	1.378	0.177	SC	R2
0.551	1.378	0.276	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.551	1.378	0.315	TC	R2
0.551	1.378	0.394	TC	R2
0.551	1.417	0.276	TC	R2
0.551	1.575	0.276	TC	R2
0.551	1.575	0.394	TC	R2
0.551	1.654	0.236	SC	RV
0.554	0.999	0.252	SB2	G2
0.562	1.063	0.177	SBR	C2
0.562	1.124	0.252	TB2	P2
0.563	0.813	0.126	WPB	G4
0.563	0.813	0.189	VBR	CPA
0.563	0.860	0.157	TC	R2
0.563	0.875	0.189	VB	P2
0.563	0.961	0.197	VC	R2
0.563	0.999	0.252	SB	PV
0.563	0.999	0.252	SB	PV
0.563	0.999	0.252	TB	G2
0.563	1.000	0.252	TB	G2
0.563	1.000	0.252	TC	R2
0.563	1.000	0.374	TA2	G2
0.563	1.004	0.252	TBR	GPA
0.563	1.063	0.252	SC	RV
0.563	1.125	0.252	SC	RV
0.563	1.125	0.252	TC	R2
0.563	1.125	0.469	TA2	G2
0.563	1.375	0.252	SC	R2
0.563	1.378	0.252	TB2	P2
0.571	1.260	0.276	TC	R2
0.571	1.260	0.354	VC	R2
0.571	1.260	0.417	VB	G2
0.577	1.124	0.315	DB	PV
0.583	1.181	0.177	SC	R2
0.583	1.181	0.197	SC	R2
0.583	1.181	0.276	SC	R2
0.583	1.181	0.295	TC	RPA
0.583	1.260	0.295	TC	RPA
0.583	1.378	0.295	TC	RPA
0.590	1.377	0.189	TB2	C2
0.591	0.748	0.118	VB	C2
0.591	0.748	0.236	VC	R2
0.591	0.787	0.118	SB	G2
0.591	0.787	0.197	KB	G2
0.591	0.827	0.079	VB	G2
0.591	0.827	0.118	KB	C2
0.591	0.827	0.118	VB	G2
0.591	0.827	0.118	VC	R2
0.591	0.827	0.165	TBR	G2
0.591	0.827	0.197	SC	R2
0.591	0.827	0.197	TB	C2
0.591	0.827	0.197	TBR	G2
0.591	0.827	0.197	TC	R2
0.591	0.827	0.197	VC	R2
0.591	0.827	0.236	TBR	G2
0.591	0.866	0.157	SB2	P2

Shaft	Bore	Width	Lip Style	Material
0.591	0.866	0.157	TB	C2
0.591	0.866	0.157	TC	R2
0.591	0.866	0.157	VB	G2
0.591	0.866	0.197	TC	R2
0.591	0.866	0.197	VC	R2
0.591	0.866	0.236	SC	R2
0.591	0.866	0.276	SC	R2
0.591	0.866	0.276	TC	R2
0.591	0.906	0.118	VC	R2
0.591	0.906	0.157	VC	R2
0.591	0.906	0.276	TC	R2
0.591	0.945	0.157	SC	R2
0.591	0.945	0.197	KC	R2
0.591	0.945	0.197	SC	R2
0.591	0.945	0.197	SC	R2
0.591	0.945	0.197	SC	RS
0.591	0.945	0.197	SC	R2
0.591	0.945	0.197	TC	R2
0.591	0.945	0.236	TC	R2
0.591	0.945	0.276	DB	G2
0.591	0.945	0.276	DC	RS
0.591	0.945	0.276	SB	G2
0.591	0.945	0.276	SC	R2
0.591	0.945	0.276	TB	G2
0.591	0.945	0.276	TC	R2
0.591	0.984	0.118	KC	R2
0.591	0.984	0.157	VC	R2
0.591	0.984	0.197	SB	C2
0.591	0.984	0.197	SC	R2
0.591	0.984	0.197	TC	RPA
0.591	0.984	0.197	TC	R2
0.591	0.984	0.236	KC	R2
0.591	0.984	0.236	SB	G2
0.591	0.984	0.236	SC	R2
0.591	0.984	0.236	TC	R2
0.591	0.984	0.276	SC	R2
0.591	0.984	0.276	TB	G2
0.591	0.984	0.276	TC	R2
0.591	0.984	0.315	TC	R2
0.591	0.984	0.394	SC	RV
0.591	1.004	0.177	TC	RV
0.591	1.004	0.256	TBR	G2
0.591	1.004	0.276	SC	R2
0.591	1.004	0.276	TC	R2
0.591	1.024	0.138	VC	R2
0.591	1.024	0.157	SC	R2
0.591	1.024	0.157	TB2	C2
0.591	1.024	0.197	SC	R2
0.591	1.024	0.197	TC	RPA
0.591	1.024	0.236	KC	R2
0.591	1.024	0.236	SC	R2
0.591	1.024	0.236	TB	G2
0.591	1.024	0.236	TC	R2
0.591	1.024	0.276	SB2	G2

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Shaft	Bore	Width	Lip Style	Material
0.591	1.024	0.276	SB2	C2
0.591	1.024	0.276	SC	R2
0.591	1.024	0.276	TB	C2
0.591	1.024	0.276	TC	R2
0.591	1.024	0.276	TC	R2
0.591	1.024	0.276	TC	R2
0.591	1.024	0.315	TC	R2
0.591	1.024	0.354	SB	G2
0.591	1.024	0.354	TC	R2
0.591	1.063	0.276	TC	R2
0.591	1.063	0.315	TC	R2
0.591	1.102	0.157	SC	R2
0.591	1.102	0.157	TC	R2
0.591	1.102	0.197	SC	R2
0.591	1.102	0.236	SC	R2
0.591	1.102	0.236	TC	R2
0.591	1.102	0.276	SB	G2
0.591	1.102	0.276	SC	R2
0.591	1.102	0.276	TC	R2
0.591	1.102	0.315	TC	R2
0.591	1.102	0.394	DC	R2
0.591	1.102	0.394	TC	R2
0.591	1.107	0.276	TC	RPA
0.591	1.122	0.276	TC	R2
0.591	1.142	0.276	TC	R2
0.591	1.165	0.157	TB	G2
0.591	1.181	0.177	SC	R2
0.591	1.181	0.197	SC	R2
0.591	1.181	0.197	TC	R2
0.591	1.181	0.197	VB2	G2
0.591	1.181	0.197	VC	R2
0.591	1.181	0.236	SC	R2
0.591	1.181	0.276	DB	G2
0.591	1.181	0.276	DC	R3
0.591	1.181	0.276	SB2	G2
0.591	1.181	0.276	SC	R2
0.591	1.181	0.276	TB	G2
0.591	1.181	0.276	TC	R2
0.591	1.181	0.295	TC	RPA
0.591	1.181	0.315	SC	R2
0.591	1.181	0.315	TB2	G2
0.591	1.181	0.315	TC	R2
0.591	1.181	0.394	SC	R2
0.591	1.181	0.394	TC	R2
0.591	1.220	0.157	TC	R2
0.591	1.220	0.276	TC	R2
0.591	1.260	0.197	TC	R2
0.591	1.260	0.236	VB	G2
0.591	1.260	0.276	DC	R2
0.591	1.260	0.276	SC	R2
0.591	1.260	0.276	TC	R2
0.591	1.260	0.295	TC	RPA
0.591	1.260	0.354	TC	R2
0.591	1.299	0.276	SC	R2

Shaft	Bore	Width	Lip Style	Material
0.591	1.299	0.276	TC	R2
0.591	1.378	0.157	SC	R2
0.591	1.378	0.197	SB2	G2
0.591	1.378	0.197	TC	R2
0.591	1.378	0.209	SC	RV
0.591	1.378	0.236	TC	R2
0.591	1.378	0.276	SB2	C2
0.591	1.378	0.276	SC	RV
0.591	1.378	0.276	SC	R2
0.591	1.378	0.276	TB	G2
0.591	1.378	0.276	TC	R2
0.591	1.378	0.276	TC	R2
0.591	1.378	0.315	SC	RV
0.591	1.378	0.315	SC	R2
0.591	1.378	0.315	TC	R2
0.591	1.378	0.394	TC	R2
0.591	1.417	0.236	SC	R2
0.591	1.417	0.276	TC	R2
0.591	1.436	0.315	DC	RH
0.591	1.457	0.276	TC	R2
0.591	1.496	0.276	TC	R2
0.591	1.496	0.394	TC	R2
0.591	1.575	0.276	TC	R2
0.591	1.575	0.315	SC	R2
0.591	1.575	0.315	TC	R2
0.591	1.575	0.394	SC	R2
0.591	1.575	0.394	TC	R2
0.591	1.654	0.276	SC	R2
0.591	1.654	0.276	TC	R2
0.591	1.654	0.315	TC	R2
0.591	1.654	0.394	TC	R2
0.593	0.937	0.189	VB2	P2
0.593	1.375	0.311	TB2	P2
0.594	0.935	0.177	VC	R2
0.594	1.048	0.189	VBR	G2
0.594	1.124	0.311	SB2	P2
0.594	1.124	0.311	TB2	P2
0.594	1.125	0.189	SB2	G2
0.594	1.375	0.240	SB	G2
0.603	0.810	0.094	VC	R2
0.603	0.810	0.094	VC	R2
0.610	0.925	0.217	SB	CV
0.610	1.185	0.276	SB	G2
0.614	0.999	0.252	VC	R2
0.614	1.004	0.276	TC	R2
0.621	1.024	0.085	VC	R2
0.621	1.024	0.085	VC	R2
0.622	1.122	0.157	TC	R2
0.625	0.813	0.094	VB	P2
0.625	0.813	0.094	VB	P2
0.625	0.813	0.094	VBR	C2
0.625	0.813	0.094	VC	R2
0.625	0.813	0.126	VC	R2
0.625	0.871	0.169	VBR	G2



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Shaft	Bore	Width	Lip Style	Material
0.625	0.875	0.098	VC	R2
0.625	0.875	0.126	SB	G2
0.625	0.875	0.126	SB	P2
0.625	0.875	0.126	TBR	C2
0.625	0.875	0.126	VB	G2
0.625	0.875	0.126	VC	R2
0.625	0.875	0.126	WPB	G4
0.625	0.933	0.189	VB	PV
0.625	0.933	0.189	VB	PV
0.625	0.937	0.173	VB	G2
0.625	0.937	0.189	TC	R2
0.625	0.937	0.189	VC	RPA
0.625	0.937	0.189	WPB	G4
0.625	0.999	0.252	TB	G2
0.625	0.999	0.252	TBR	P2
0.625	0.999	0.252	TBR	P2
0.625	0.999	0.252	TC	R2
0.625	1.000	0.126	VB	G2
0.625	1.000	0.126	VBR	P2
0.625	1.000	0.189	SC	R2
0.625	1.000	0.252	SB	P2
0.625	1.000	0.252	SC	R2
0.625	1.000	0.252	SC	R2
0.625	1.000	0.252	TBR	G2
0.625	1.000	0.252	TBR	G2
0.625	1.000	0.252	TBR	P2
0.625	1.000	0.252	VB	C2
0.625	1.063	0.189	VB	C2
0.625	1.063	0.252	TB	C2
0.625	1.063	0.252	VB	GV
0.625	1.063	0.252	WPB	G4
0.625	1.124	0.189	SB	G2
0.625	1.124	0.252	SB2	P2
0.625	1.124	0.252	TB2	P2
0.625	1.124	0.531	KB2	C2
0.625	1.125	0.150	SC	R2
0.625	1.125	0.252	SB2	P2
0.625	1.125	0.252	SB2	P2
0.625	1.125	0.252	SC	R2
0.625	1.125	0.252	SC	RV
0.625	1.125	0.252	SC	R2
0.625	1.125	0.252	SC	R2
0.625	1.125	0.252	TB2	P2
0.625	1.125	0.252	TBR	P2
0.625	1.125	0.252	TC	RV
0.625	1.125	0.252	TC	R2
0.625	1.125	0.280	SC	R2
0.625	1.125	0.311	DC	R2
0.625	1.125	0.311	SC	R2
0.625	1.125	0.311	TB2	P2
0.625	1.125	0.311	TC	R2
0.625	1.125	0.374	SB	P2
0.625	1.125	0.374	TC	R2
0.625	1.240	0.252	TBR	G2

Shaft	Bore	Width	Lip Style	Material
0.625	1.250	0.252	SB2	PV
0.625	1.250	0.252	SBR	C2
0.625	1.250	0.252	TB2	G2
0.625	1.250	0.252	TC	R2
0.625	1.250	0.252	WPB	G4
0.625	1.250	0.276	TC	R2
0.625	1.250	0.311	SC	R2
0.625	1.250	0.406	SB2	GV
0.625	1.250	0.437	SA2	G2
0.625	1.260	0.252	SB2	G2
0.625	1.265	0.276	TC	R2
0.625	1.375	0.252	SB2	P2
0.625	1.375	0.252	SB2	P2
0.625	1.375	0.252	SC	R2
0.625	1.375	0.252	TB2	G2
0.625	1.375	0.252	TC	R2
0.625	1.375	0.252	VB2	G2
0.625	1.375	0.252	VB2	G2
0.625	1.375	0.311	TA2	G2
0.625	1.375	0.311	TB	G2
0.625	1.375	0.374	SC	R2
0.625	1.375	0.374	SC	R2
0.625	1.377	0.406	SA2	C2
0.625	1.500	0.250	TB2	P2
0.625	1.563	0.374	SB2	G2
0.625	1.575	0.311	TB2	P2
0.625	1.752	0.311	TB2	P2
0.626	1.378	0.374	DC	R2
0.630	0.787	0.098	VC	R2
0.630	0.827	0.157	KC	R2
0.630	0.827	0.177	TB	G2
0.630	0.827	0.236	TC	R2
0.630	0.866	0.118	SC	R2
0.630	0.866	0.118	VB	G2
0.630	0.866	0.118	VC	R2
0.630	0.866	0.157	SC	R2
0.630	0.866	0.157	TC	R2
0.630	0.866	0.276	TC	R2
0.630	0.878	0.094	VC	R2
0.630	0.894	0.079	VC	R2
0.630	0.906	0.118	KC	R2
0.630	0.906	0.118	VC	R2
0.630	0.906	0.197	VC	R2
0.630	0.906	0.256	SC	R2
0.630	0.945	0.118	VB	G2
0.630	0.945	0.157	KC	R2
0.630	0.945	0.157	SB	G2
0.630	0.945	0.157	SC	R2
0.630	0.945	0.157	TB	G2
0.630	0.945	0.157	TC	R2
0.630	0.945	0.157	VB	G2
0.630	0.945	0.157	VC	R2
0.630	0.945	0.197	SC	R2
0.630	0.945	0.197	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.630	0.945	0.236	SC	R2
0.630	0.945	0.236	TB	G2
0.630	0.945	0.236	TC	R2
0.630	0.945	0.276	SB	G2
0.630	0.945	0.276	SC	R2
0.630	0.945	0.276	TBR	C2
0.630	0.945	0.276	TC	R2
0.630	0.984	0.197	TC	R2
0.630	0.984	0.197	VC	R2
0.630	0.984	0.236	TC	R2
0.630	0.984	0.276	TB	G2
0.630	0.984	0.276	TC	R2
0.630	1.024	0.118	VC	R2
0.630	1.024	0.197	SC	R2
0.630	1.024	0.197	TC	R2
0.630	1.024	0.236	TC	RPA
0.630	1.024	0.236	TC	R2
0.630	1.024	0.276	SB	G2
0.630	1.024	0.276	SC	R2
0.630	1.024	0.276	TBR	G2
0.630	1.024	0.276	TC	R2
0.630	1.063	0.236	SC	RPA
0.630	1.063	0.276	TC	R2
0.630	1.102	0.236	TC	R2
0.630	1.102	0.276	SB	G2
0.630	1.102	0.276	SC	R2
0.630	1.102	0.276	SC	R2
0.630	1.102	0.276	TB	GV
0.630	1.102	0.276	TC	R2
0.630	1.122	0.315	TC	R2
0.630	1.142	0.276	TC	R2
0.630	1.181	0.118	VC	R2
0.630	1.181	0.177	SC	R2
0.630	1.181	0.177	TC	R2
0.630	1.181	0.177	VB	G2
0.630	1.181	0.197	SC	R2
0.630	1.181	0.197	TC	R2
0.630	1.181	0.197	VC	R2
0.630	1.181	0.236	TC	R2
0.630	1.181	0.252	SB2	G2
0.630	1.181	0.276	DC	R3
0.630	1.181	0.276	SC	R2
0.630	1.181	0.276	TB	GS
0.630	1.181	0.276	TB2	G2
0.630	1.181	0.276	TC	R2
0.630	1.181	0.315	KB2	G2
0.630	1.181	0.315	KC	R2
0.630	1.181	0.315	TBR	G2
0.630	1.181	0.315	TC	R2
0.630	1.181	0.394	SC	R2
0.630	1.181	0.394	TC	R2
0.630	1.260	0.276	SB	G2
0.630	1.260	0.276	SC	R2
0.630	1.260	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.630	1.260	0.315	TC	R2
0.630	1.260	0.394	TC	R2
0.630	1.339	0.157	TC	R2
0.630	1.378	0.276	SC	R2
0.630	1.378	0.276	TC	R2
0.630	1.378	0.315	SC	R2
0.630	1.378	0.315	TC	R2
0.630	1.378	0.394	SC	R2
0.630	1.378	0.394	TC	R2
0.630	1.417	0.276	TC	R2
0.630	1.457	0.276	TC	R2
0.630	1.496	0.276	SC	R2
0.630	1.496	0.315	TC	R2
0.630	1.575	0.276	SC	R2
0.630	1.575	0.276	TC	R2
0.630	1.575	0.315	SC	R2
0.630	1.575	0.394	SC	R2
0.630	1.575	0.394	TC	R2
0.630	1.654	0.236	TC	R2
0.630	1.850	0.276	TC	R2
0.646	1.181	0.197	TC	R2
0.650	0.844	0.118	VB	G2
0.650	0.906	0.197	KC	P2
0.650	1.220	0.276	TBR	GPA
0.656	1.250	0.252	SB	P2
0.656	1.250	0.252	SB	P2
0.656	1.575	0.252	SC	R2
0.656	1.575	0.252	TC	R2
0.657	1.124	0.311	SB2	P2
0.657	1.375	0.252	SB2	G2
0.657	1.575	0.252	SB	C2
0.661	1.299	0.374	DC	R2
0.665	1.102	0.197	SC	R2
0.665	1.142	0.315	TBR	CPA
0.669	0.819	0.126	VB	G2
0.669	0.827	0.126	VC	R4
0.669	0.846	0.118	VB	C2
0.669	0.866	0.197	VC	R2
0.669	0.866	0.236	VC	R2
0.669	0.906	0.118	KC	R2
0.669	0.906	0.118	VB	G2
0.669	0.906	0.118	VC	R2
0.669	0.906	0.157	KC	R2
0.669	0.945	0.098	KC	R2
0.669	0.945	0.118	KC	R2
0.669	0.945	0.157	KC	R2
0.669	0.945	0.197	KC	R2
0.669	0.945	0.197	SC	R2
0.669	0.945	0.197	TC	R2
0.669	0.945	0.236	KC	R2
0.669	0.945	0.276	TC	R2
0.669	0.984	0.157	SC	R2
0.669	0.984	0.157	TC	R2
0.669	0.984	0.197	KB	GP



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Shaft	Bore	Width	Lip Style	Material
0.669	0.984	0.197	SC	R2
0.669	0.984	0.197	VB	CV
0.669	0.984	0.236	TC	R2
0.669	0.984	0.276	SC	R2
0.669	0.984	0.276	TC	R2
0.669	0.984	0.394	TC	R2
0.669	0.984	0.472	KBR	C2
0.669	1.024	0.079	VC	R2
0.669	1.024	0.118	VC	RV
0.669	1.024	0.236	SC	R2
0.669	1.024	0.236	TC	R2
0.669	1.024	0.276	TB	G2
0.669	1.024	0.276	TC	R2
0.669	1.024	0.315	TC	R2
0.669	1.063	0.197	SC	R2
0.669	1.063	0.197	TC	R2
0.669	1.063	0.236	SC	R2
0.669	1.063	0.252	SB	C2
0.669	1.063	0.276	SC	R2
0.669	1.063	0.276	TC	R2
0.669	1.063	0.315	TC	R2
0.669	1.063	0.394	TC	R2
0.669	1.102	0.157	TC	R2
0.669	1.102	0.177	SC	R2
0.669	1.102	0.177	TC	R2
0.669	1.102	0.197	SB	G2
0.669	1.102	0.197	SC	R2
0.669	1.102	0.197	TC	R2
0.669	1.102	0.236	KC	R2
0.669	1.102	0.236	SB	G2
0.669	1.102	0.236	SC	R2
0.669	1.102	0.236	TB	G2
0.669	1.102	0.236	TC	R2
0.669	1.102	0.256	DB	G2
0.669	1.102	0.276	DB	G2
0.669	1.102	0.276	DC	R2
0.669	1.102	0.276	SB	G2
0.669	1.102	0.276	SC	RV
0.669	1.102	0.276	SC	R2
0.669	1.102	0.276	TB	G2
0.669	1.102	0.276	TB2	C2
0.669	1.102	0.276	TC	R2
0.669	1.102	0.287	SC	RV
0.669	1.102	0.315	DB	G2
0.669	1.102	0.315	DC	RV
0.669	1.102	0.315	TC	R2
0.669	1.114	0.276	SC	R2
0.669	1.122	0.276	DC	R2
0.669	1.122	0.276	TC	R2
0.669	1.122	0.315	DB	G2
0.669	1.122	0.394	TA2	C2
0.669	1.142	0.197	SC	R2
0.669	1.142	0.197	TC	R2
0.669	1.142	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.669	1.181	0.197	SC	R2
0.669	1.181	0.197	TC	R2
0.669	1.181	0.197	VC	R2
0.669	1.181	0.236	SC	R2
0.669	1.181	0.236	TB	G2
0.669	1.181	0.236	TC	RPA
0.669	1.181	0.236	TC	R2
0.669	1.181	0.276	DC	R2
0.669	1.181	0.276	SB2	P2
0.669	1.181	0.276	SB2	P2
0.669	1.181	0.276	SC	R2
0.669	1.181	0.276	TB	G2
0.669	1.181	0.276	TB2	G2
0.669	1.181	0.276	TC	R2
0.669	1.181	0.276	TC	R2
0.669	1.181	0.315	TA2	G2
0.669	1.181	0.315	TC	R2
0.669	1.181	0.354	DC	R2
0.669	1.181	0.394	TC	R2
0.669	1.187	0.185	SA2	G2
0.669	1.220	0.276	SC	R2
0.669	1.220	0.276	TC	R2
0.669	1.220	0.307	TBR	G2
0.669	1.220	0.315	TC	R2
0.669	1.250	0.252	VB2	G2
0.669	1.250	0.315	TC	R2
0.669	1.260	0.197	SC	R2
0.669	1.260	0.197	TC	R2
0.669	1.260	0.236	TC	R2
0.669	1.260	0.276	SC	R2
0.669	1.260	0.276	SC	R2
0.669	1.260	0.276	TB2	G2
0.669	1.260	0.276	TC	R2
0.669	1.260	0.315	DC	R3
0.669	1.260	0.315	SC	R2
0.669	1.260	0.315	TC	R2
0.669	1.260	0.354	TB	G2
0.669	1.299	0.276	DB	G2
0.669	1.299	0.276	SB2	C2
0.669	1.299	0.276	TB	G2
0.669	1.299	0.276	TC	R2
0.669	1.299	0.315	SB2	G2
0.669	1.339	0.157	TB	G2
0.669	1.339	0.157	TC	R2
0.669	1.339	0.177	SB	GPA
0.669	1.339	0.276	SC	R2
0.669	1.339	0.276	TC	R2
0.669	1.339	0.315	TB	G2
0.669	1.358	0.157	TC	R2
0.669	1.378	0.189	VC	R2
0.669	1.378	0.197	SC	R2
0.669	1.378	0.197	TC	R2
0.669	1.378	0.236	TC	R2
0.669	1.378	0.276	SB2	PV

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oil seal size listing

Shaft	Bore	Width	Lip Style	Material
0.669	1.378	0.276	SC	R2
0.669	1.378	0.276	TC	R2
0.669	1.378	0.315	SB2	G2
0.669	1.378	0.315	SC	R2
0.669	1.378	0.315	TC	R2
0.669	1.378	0.394	TC	R2
0.669	1.417	0.276	TC	R2
0.669	1.457	0.276	SC	R2
0.669	1.457	0.276	TC	R2
0.669	1.457	0.394	TC	R2
0.669	1.496	0.276	SC	R2
0.669	1.496	0.276	TC	R2
0.669	1.496	0.315	TC	R2
0.669	1.496	0.394	TC	R2
0.669	1.571	0.197	TB	G2
0.669	1.575	0.197	TB	G2
0.669	1.575	0.197	TC	R2
0.669	1.575	0.236	SC	R2
0.669	1.575	0.236	TB2	G2
0.669	1.575	0.276	DC	R2
0.669	1.575	0.276	SC	R2
0.669	1.575	0.276	TC	R2
0.669	1.575	0.315	TC	R2
0.669	1.575	0.335	TC	R2
0.669	1.575	0.394	SB2	C2
0.669	1.575	0.394	TC	R2
0.669	1.654	0.276	TC	R2
0.669	1.772	0.276	TC	R2
0.669	1.811	0.236	TC	R2
0.669	1.850	0.276	SC	R2
0.669	1.850	0.276	TC	R2
0.669	1.850	0.315	TC	R2
0.669	1.850	0.394	SC	RPA
0.669	1.850	0.394	TC	R2
0.687	0.820	0.126	VB	GV
0.687	0.937	0.126	WPB	G4
0.687	0.999	0.189	VB	G2
0.687	0.999	0.189	WPB	G4
0.687	1.063	0.189	SB	C2
0.687	1.063	0.268	SBR	C2
0.687	1.124	0.252	VB	C2
0.687	1.125	0.252	SC	R2
0.687	1.125	0.252	TC	R2
0.687	1.125	0.311	DC	R2
0.687	1.125	0.374	SC	R2
0.687	1.129	0.311	TB	PPA
0.687	1.129	0.311	TB	PPA
0.687	1.156	0.252	SBR	C2
0.687	1.187	0.189	SB2	P2
0.687	1.187	0.252	SC	R2
0.687	1.249	0.252	SB	G2
0.687	1.250	0.252	SC	R2
0.687	1.250	0.252	TBR	G2
0.687	1.250	0.252	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.687	1.250	0.252	VC	R2
0.687	1.250	0.311	SBR	C2
0.687	1.250	0.374	TC	R2
0.687	1.375	0.311	SC	R2
0.688	1.003	0.189	WPB	G4
0.689	1.181	0.236	SC	R2
0.689	1.260	0.236	TC	R2
0.693	1.181	0.276	TC	R2
0.700	0.937	0.189	VB	C2
0.701	1.181	0.236	SC	R3
0.701	1.339	0.374	SC	R2
0.709	0.866	0.276	VC	R2
0.709	0.906	0.157	KC	R2
0.709	0.945	0.138	KC	R2
0.709	0.945	0.157	SC	R2
0.709	0.945	0.157	VB	GPA
0.709	0.945	0.157	VC	R2
0.709	0.945	0.197	TC	R2
0.709	0.945	0.236	KC	R2
0.709	0.945	0.276	TC	R2
0.709	0.984	0.157	TB	G2
0.709	0.984	0.276	TC	R2
0.709	1.024	0.157	KC	R2
0.709	1.024	0.157	VB	G2
0.709	1.024	0.236	SC	R2
0.709	1.024	0.276	TC	R2
0.709	1.039	0.150	TB2	C2
0.709	1.063	0.157	KC	R2
0.709	1.063	0.197	SC	R2
0.709	1.063	0.276	TC	R2
0.709	1.102	0.177	TC	RV
0.709	1.102	0.236	SC	R2
0.709	1.102	0.236	TC	R2
0.709	1.102	0.276	SC	R2
0.709	1.102	0.276	TB	G2
0.709	1.102	0.276	TC	R2
0.709	1.102	0.315	TB	G2
0.709	1.102	0.315	TC	R2
0.709	1.102	0.394	TC	R2
0.709	1.122	0.197	SB	P2
0.709	1.142	0.197	SC	R2
0.709	1.142	0.276	TC	R2
0.709	1.165	0.157	TB	G2
0.709	1.181	0.197	SC	R2
0.709	1.181	0.236	TC	R2
0.709	1.181	0.276	DC	R2
0.709	1.181	0.276	SC	R2
0.709	1.181	0.276	TB2	G2
0.709	1.181	0.276	TBR	G2
0.709	1.181	0.276	TC	R2
0.709	1.181	0.276	TC	R2
0.709	1.181	0.315	SBR	G2
0.709	1.181	0.315	TB2	G2
0.709	1.181	0.315	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.709	1.181	0.394	TC	R2
0.709	1.220	0.276	TC	R2
0.709	1.260	0.236	TC	R2
0.709	1.260	0.276	DC	R3
0.709	1.260	0.276	SC	R2
0.709	1.260	0.276	TB	G2
0.709	1.260	0.276	TC	R2
0.709	1.260	0.315	TBR	G2
0.709	1.260	0.315	TC	R2
0.709	1.260	0.394	TC	R2
0.709	1.339	0.276	TC	R2
0.709	1.339	0.315	TBR	G2
0.709	1.339	0.315	TBR	CPA
0.709	1.378	0.197	SC	R2
0.709	1.378	0.276	SC	R2
0.709	1.378	0.276	TC	R2
0.709	1.378	0.276	TC	R2
0.709	1.378	0.315	TC	R2
0.709	1.378	0.394	SC	R2
0.709	1.378	0.394	TC	R2
0.709	1.417	0.276	SC	R2
0.709	1.457	0.197	SC	R2
0.709	1.457	0.276	TC	R2
0.709	1.457	0.315	TC	R2
0.709	1.496	0.197	SC	R2
0.709	1.496	0.276	TC	R2
0.709	1.496	0.394	TC	R2
0.709	1.575	0.276	SC	R2
0.709	1.575	0.276	TC	R2
0.709	1.575	0.354	TC	R2
0.709	1.575	0.394	SC	R2
0.709	1.575	0.394	TC	R2
0.709	1.654	0.276	TC	R2
0.709	1.654	0.394	TC	R2
0.709	1.850	0.394	SC	R2
0.719	1.250	0.252	TB2	PPA
0.719	1.250	0.252	TC	R2
0.719	1.250	0.264	SB2	C2
0.719	1.375	0.350	TA2	G2
0.720	1.500	0.252	VB	P2
0.724	1.039	0.142	TB2	C2
0.728	1.024	0.177	VC	R2
0.728	1.102	0.276	TC	RPA
0.728	1.260	0.417	VB	G2
0.730	1.130	0.217	WPC	R4
0.734	1.625	0.374	DBR	G2
0.735	1.315	0.252	SC	RV
0.736	1.181	0.177	VB	G2
0.744	1.063	0.189	SBR	C2
0.744	1.102	0.197	SC	R2
0.744	1.181	0.197	SC	R2
0.748	0.925	0.236	KC	R2
0.748	0.984	0.236	TC	R2
0.748	1.004	0.236	KC	R2
0.748	1.024	0.118	KC	R2

Shaft	Bore	Width	Lip Style	Material
0.748	1.024	0.157	VC	R2
0.748	1.063	0.157	VB	G2
0.748	1.063	0.197	KC	R2
0.748	1.063	0.197	TC	R2
0.748	1.063	0.236	SC	R2
0.748	1.063	0.276	TC	R2
0.748	1.063	0.394	TC	R2
0.748	1.102	0.236	SC	R2
0.748	1.102	0.276	TC	R2
0.748	1.122	0.197	TB	G3
0.748	1.142	0.276	TC	R2
0.748	1.181	0.197	SC	R2
0.748	1.181	0.276	SC	R2
0.748	1.181	0.276	TB	G2
0.748	1.181	0.276	TC	R2
0.748	1.181	0.315	SC	R2
0.748	1.220	0.276	TC	R2
0.748	1.240	0.315	KC	R2
0.748	1.260	0.197	SC	R2
0.748	1.260	0.197	TC	R2
0.748	1.260	0.236	TC	R2
0.748	1.260	0.276	DC	R2
0.748	1.260	0.276	SB	G2
0.748	1.260	0.276	SC	R2
0.748	1.260	0.276	TC	R2
0.748	1.260	0.315	TB	G2
0.748	1.260	0.315	TC	R2
0.748	1.260	0.394	TC	R2
0.748	1.299	0.276	TC	R2
0.748	1.299	0.315	TC	R2
0.748	1.319	0.276	TC	R2
0.748	1.339	0.276	TC	R2
0.748	1.378	0.197	TC	R2
0.748	1.378	0.236	SC	R2
0.748	1.378	0.276	SC	R2
0.748	1.378	0.276	TC	R2
0.748	1.378	0.315	SC	R2
0.748	1.378	0.315	TB2	G2
0.748	1.378	0.315	TC	R2
0.748	1.378	0.394	SC	R2
0.748	1.378	0.394	TC	R2
0.748	1.417	0.236	TBR	G2
0.748	1.417	0.276	TC	R2
0.748	1.417	0.335	SC	R2
0.748	1.457	0.276	TC	R2
0.748	1.457	0.394	SB	G4
0.748	1.457	0.394	TC	R2
0.748	1.496	0.276	TC	R2
0.748	1.496	0.315	TC	R2
0.748	1.496	0.394	TC	R2
0.748	1.575	0.276	TC	R2
0.748	1.575	0.315	SC	R2
0.748	1.575	0.394	TC	R2
0.748	1.614	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.748	1.654	0.276	SC	R2
0.748	1.654	0.276	TC	R2
0.748	1.850	0.276	TC	R2
0.748	1.850	0.394	SC	R2
0.748	1.850	0.394	TC	R2
0.750	0.999	0.126	SB	C2
0.750	0.999	0.126	VB	P2
0.750	1.000	0.126	SC	R2
0.750	1.000	0.126	VB	G2
0.750	1.000	0.126	VB	C2
0.750	1.000	0.126	VB	C2
0.750	1.000	0.126	VC	R2
0.750	1.000	0.126	WPB	G4
0.750	1.000	0.156	TC	R2
0.750	1.000	0.252	TC	R2
0.750	1.042	0.161	VB	C2
0.750	1.063	0.181	VC	R2
0.750	1.063	0.189	SB	C2
0.750	1.063	0.189	TB	G2
0.750	1.065	0.181	VC	R2
0.750	1.124	0.157	VB	C2
0.750	1.124	0.157	VB	C2
0.750	1.124	0.189	SB	G2
0.750	1.125	0.157	SC	R2
0.750	1.125	0.173	VB	G2
0.750	1.125	0.189	DC	R2
0.750	1.125	0.189	SB	G2
0.750	1.125	0.189	SBR	G2
0.750	1.125	0.189	SBR	P2
0.750	1.125	0.189	SC	R2
0.750	1.125	0.189	SC	R2
0.750	1.125	0.189	WPB	G4
0.750	1.125	0.252	SB	G2
0.750	1.125	0.252	SC	R2
0.750	1.125	0.252	TC	R2
0.750	1.125	0.289	TC	R2
0.750	1.142	0.252	SC	R2
0.750	1.181	0.197	TC	R2
0.750	1.187	0.157	VB	C2
0.750	1.187	0.250	SB2	C2
0.750	1.187	0.252	SC	R2
0.750	1.250	0.189	SB	GV
0.750	1.250	0.189	SC	R2
0.750	1.250	0.252	KC	V3
0.750	1.250	0.252	SB	G2
0.750	1.250	0.252	SB	P2
0.750	1.250	0.252	SC	R2
0.750	1.250	0.252	SC	R2
0.750	1.250	0.252	TB	G2
0.750	1.250	0.252	TB	P2
0.750	1.250	0.252	TC	R2
0.750	1.250	0.252	VC	R2
0.750	1.250	0.252	WPB	G4
0.750	1.250	0.252	WPC	R4

Shaft	Bore	Width	Lip Style	Material
0.750	1.250	0.260	TB2	P2
0.750	1.250	0.311	SA2	G2
0.750	1.250	0.311	SBR	G2
0.750	1.250	0.311	TB	G2
0.750	1.250	0.311	TBR	G2
0.750	1.250	0.311	TBR	P2
0.750	1.250	0.374	SA2	P2
0.750	1.250	0.374	TA2	P2
0.750	1.250	0.406	KB	C2
0.750	1.250	0.437	KBR	C2
0.750	1.252	0.189	SB2	P2
0.750	1.254	0.252	TB2	P2
0.750	1.301	0.252	KB	C2
0.750	1.312	0.252	SB2	P2
0.750	1.312	0.311	TC	R2
0.750	1.313	0.252	TC	R2
0.750	1.313	0.311	TBR	G2
0.750	1.318	0.311	TBR	GPA
0.750	1.375	0.252	SC	R2
0.750	1.375	0.252	TB2	G2
0.750	1.375	0.252	TB2	P2
0.750	1.375	0.252	TBR	G2
0.750	1.375	0.252	TC	R2
0.750	1.375	0.252	VBR	C2
0.750	1.375	0.311	SA2	G2
0.750	1.375	0.311	TB2	P2
0.750	1.375	0.374	SB2	C2
0.750	1.375	0.374	TB2	P2
0.750	1.375	0.390	DC	R2
0.750	1.375	0.406	SC	R2
0.750	1.499	0.252	SB2	P2
0.750	1.499	0.252	VB	P2
0.750	1.500	0.189	TC	R2
0.750	1.500	0.252	SB2	P2
0.750	1.500	0.252	TB2	P2
0.750	1.500	0.252	TC	R2
0.750	1.575	0.252	SB2	C2
0.750	1.575	0.311	TC	R2
0.750	1.624	0.252	TB2	C2
0.750	1.624	0.252	TC	R2
0.750	1.625	0.311	SC	R2
0.750	1.750	0.252	SB2	G2
0.750	1.750	0.311	TBR	G2
0.750	1.752	0.252	TB2	P2
0.750	1.752	0.252	TC	R2
0.750	1.781	0.252	TB2	P2
0.750	1.783	0.252	TC	R2
0.750	1.828	0.252	SB2	P2
0.750	1.828	0.252	SB2	P2
0.750	1.874	0.252	TB2	G2
0.750	2.047	0.311	SB2	C2
0.750	2.441	0.394	TC	R2
0.760	1.232	0.177	SB	C2
0.760	1.378	0.224	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.762	1.156	0.252	SBR	C2
0.766	1.850	0.512	DC	R2
0.768	1.063	0.189	WPB	GV
0.768	1.142	0.197	SC	R2
0.768	1.969	0.197	TC	R2
0.780	1.181	0.197	TC	R2
0.780	1.181	0.276	TC	R2
0.781	1.067	0.181	VB	G2
0.781	1.250	0.126	VB	C2
0.781	1.250	0.252	TB2	G2
0.781	1.250	0.252	TC	R2
0.781	1.375	0.189	VB2	P2
0.781	1.375	0.252	SBR	G2
0.781	1.375	0.252	TB2	P2
0.781	1.375	0.311	SB2	G2
0.781	1.500	0.252	SB2	G2
0.781	1.625	0.252	SC	R2
0.781	1.750	0.311	SB2	G2
0.781	1.828	0.252	SB2	PPA
0.781	1.850	0.252	TC	R2
0.781	1.850	0.311	TC	R2
0.781	1.850	0.374	TC	R2
0.787	0.984	0.098	VC	R2
0.787	0.984	0.197	TC	R2
0.787	0.984	0.276	TC	R2
0.787	0.984	0.315	TC	R2
0.787	1.000	0.126	VC	R2
0.787	1.024	0.118	KBR	C2
0.787	1.024	0.157	SB	G2
0.787	1.024	0.157	SC	R2
0.787	1.024	0.157	TC	R2
0.787	1.024	0.157	VB	G2
0.787	1.024	0.157	VC	R2
0.787	1.024	0.177	KC	R2
0.787	1.024	0.197	KC	R2
0.787	1.024	0.197	TC	R2
0.787	1.024	0.220	TC	R2
0.787	1.063	0.157	KC	R2
0.787	1.063	0.197	TC	R2
0.787	1.063	0.236	TB	G2
0.787	1.102	0.157	SC	R2
0.787	1.102	0.157	TB	G2
0.787	1.102	0.157	TC	R2
0.787	1.102	0.157	VB	G2
0.787	1.102	0.157	WPB	G4
0.787	1.102	0.197	SC	R2
0.787	1.102	0.197	VC	R2
0.787	1.102	0.236	SC	R2
0.787	1.102	0.236	TB	G2
0.787	1.102	0.236	TC	R2
0.787	1.102	0.276	SC	R2
0.787	1.102	0.276	TC	R2
0.787	1.102	0.315	SB	G2
0.787	1.125	0.189	SB	G2

Shaft	Bore	Width	Lip Style	Material
0.787	1.181	0.157	SC	R2
0.787	1.181	0.157	VC	R2
0.787	1.181	0.177	TC	R2
0.787	1.181	0.197	SB	G2
0.787	1.181	0.197	SC	R2
0.787	1.181	0.197	TC	R2
0.787	1.181	0.217	TC	R2
0.787	1.181	0.236	SC	R2
0.787	1.181	0.236	TB2	G2
0.787	1.181	0.236	TBR	GPA
0.787	1.181	0.236	TC	R2
0.787	1.181	0.276	KC	R2
0.787	1.181	0.276	SB	G2
0.787	1.181	0.276	SC	RV
0.787	1.181	0.276	SC	R2
0.787	1.181	0.276	SC	RS
0.787	1.181	0.276	SC	R2
0.787	1.181	0.276	TB	G2
0.787	1.181	0.276	TBR	G2
0.787	1.181	0.276	TC	R2
0.787	1.181	0.276	TC	R2
0.787	1.181	0.276	VC	R2
0.787	1.181	0.315	DB	G2
0.787	1.181	0.315	TC	R2
0.787	1.181	0.354	TC	R2
0.787	1.181	0.394	DC	R2
0.787	1.181	0.394	TC	R2
0.787	1.220	0.197	TC	R2
0.787	1.220	0.276	SB	C2
0.787	1.220	0.276	SBR	G2
0.787	1.220	0.276	TB	G2
0.787	1.220	0.276	TBR	G2
0.787	1.220	0.276	TC	R2
0.787	1.260	0.197	SB	G2
0.787	1.260	0.197	SC	R2
0.787	1.260	0.197	TC	R2
0.787	1.260	0.197	VC	R2
0.787	1.260	0.236	SC	R2
0.787	1.260	0.236	TC	R2
0.787	1.260	0.276	SB	G2
0.787	1.260	0.276	SC	R2
0.787	1.260	0.276	TB	G2
0.787	1.260	0.276	TC	R2
0.787	1.260	0.295	TC	R2
0.787	1.260	0.315	TB	G2
0.787	1.260	0.315	TC	R2
0.787	1.260	0.394	TC	R2
0.787	1.299	0.276	TC	R2
0.787	1.299	0.394	TC	R2
0.787	1.339	0.157	SC	R2
0.787	1.339	0.197	SC	R2
0.787	1.339	0.236	SC	R2
0.787	1.339	0.256	SC	R2
0.787	1.339	0.276	SC	R2

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Shaft	Bore	Width	Lip Style	Material
0.787	1.339	0.276	SC	R2
0.787	1.339	0.276	TC	R2
0.787	1.378	0.157	SC	R2
0.787	1.378	0.197	TC	R2
0.787	1.378	0.217	SC	R2
0.787	1.378	0.236	SC	R2
0.787	1.378	0.236	SC	R2
0.787	1.378	0.236	TC	R2
0.787	1.378	0.276	DB	G2
0.787	1.378	0.276	DC	R2
0.787	1.378	0.276	SB2	G2
0.787	1.378	0.276	SC	RV
0.787	1.378	0.276	SC	R2
0.787	1.378	0.276	TB2	G2
0.787	1.378	0.276	TC	RV
0.787	1.378	0.276	TC	R2
0.787	1.378	0.315	DC	R2
0.787	1.378	0.315	TB	G2
0.787	1.378	0.315	TC	R2
0.787	1.378	0.354	TC	R2
0.787	1.378	0.394	DC	RP
0.787	1.378	0.394	SC	R2
0.787	1.378	0.394	TB	G2
0.787	1.378	0.394	TC	R2
0.787	1.378	0.472	TC	R2
0.787	1.409	0.157	TB	G2
0.787	1.417	0.276	SC	R2
0.787	1.417	0.276	TC	R2
0.787	1.417	0.315	SC	R2
0.787	1.417	0.315	TC	R2
0.787	1.417	0.394	DC	R2
0.787	1.417	0.394	TC	R2
0.787	1.417	0.472	TC	R2
0.787	1.457	0.236	TC	R2
0.787	1.457	0.276	SC	R2
0.787	1.457	0.276	TC	R2
0.787	1.457	0.315	SC	R2
0.787	1.457	0.315	TC	R2
0.787	1.457	0.394	TC	R2
0.787	1.484	0.276	TC	R2
0.787	1.496	0.197	SC	R2
0.787	1.496	0.197	TC	R2
0.787	1.496	0.276	KC	R2
0.787	1.496	0.276	SC	R2
0.787	1.496	0.276	TC	R2
0.787	1.496	0.315	SC	R2
0.787	1.496	0.315	TC	R2
0.787	1.496	0.394	TC	R2
0.787	1.496	0.591	TC	R2
0.787	1.535	0.236	TC	R2
0.787	1.547	0.217	SC	R2
0.787	1.567	0.256	TC	R2
0.787	1.575	0.157	TB2	G3
0.787	1.575	0.197	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.787	1.575	0.197	VC	R2
0.787	1.575	0.276	DC	R2
0.787	1.575	0.276	SB2	G2
0.787	1.575	0.276	SC	R2
0.787	1.575	0.276	TB	G2
0.787	1.575	0.276	TC	R2
0.787	1.575	0.315	DC	RV
0.787	1.575	0.315	TC	R2
0.787	1.575	0.354	TC	R2
0.787	1.575	0.394	DC	R2
0.787	1.575	0.394	SB2	G2
0.787	1.575	0.394	SC	R2
0.787	1.575	0.394	TB2	G2
0.787	1.575	0.394	TC	R2
0.787	1.575	0.472	TC	R2
0.787	1.622	0.197	TC	R2
0.787	1.624	0.276	TC	R2
0.787	1.634	0.276	TB2	G3
0.787	1.654	0.217	SC	R2
0.787	1.654	0.236	SC	R2
0.787	1.654	0.236	SC	R2
0.787	1.654	0.236	SC	R2
0.787	1.654	0.236	TC	R2
0.787	1.654	0.276	SB2	C2
0.787	1.654	0.276	SC	R2
0.787	1.654	0.276	SC	R2
0.787	1.654	0.276	TC	R2
0.787	1.654	0.315	SB	G2
0.787	1.654	0.315	TC	R2
0.787	1.654	0.394	SA2	G2
0.787	1.654	0.394	TC	R2
0.787	1.654	0.472	TC	R2
0.787	1.673	0.394	SA2	G2
0.787	1.693	0.276	TC	R2
0.787	1.732	0.276	TC	R2
0.787	1.772	0.276	TC	R2
0.787	1.772	0.315	TC	R2
0.787	1.772	0.394	TC	R2
0.787	1.772	0.472	TC	R2
0.787	1.811	0.315	TC	R2
0.787	1.850	0.209	SC	RV
0.787	1.850	0.236	TC	R2
0.787	1.850	0.276	DC	R2
0.787	1.850	0.276	SB2	C2
0.787	1.850	0.276	SC	R2
0.787	1.850	0.276	TB2	P2
0.787	1.850	0.276	TC	R2
0.787	1.850	0.315	TC	R2
0.787	1.850	0.335	SC	RPA
0.787	1.850	0.354	TC	R2
0.787	1.850	0.394	SA2	G2
0.787	1.850	0.394	SC	R2
0.787	1.850	0.394	TC	R2
0.787	1.850	0.472	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.787	1.850	0.512	TC	R2
0.787	1.854	0.500	TB2	G2
0.787	1.890	0.276	SC	RV
0.787	1.890	0.276	TC	R2
0.787	1.890	0.315	TC	R2
0.787	1.890	0.394	TC	R2
0.787	1.929	0.276	TC	R2
0.787	1.969	0.315	TC	R2
0.787	1.969	0.354	TC	R2
0.787	1.969	0.394	TC	R2
0.787	2.047	0.157	VC	R2
0.787	2.047	0.236	SC	R2
0.787	2.047	0.236	TC	R2
0.787	2.047	0.276	SC	R2
0.787	2.047	0.276	TC	R2
0.787	2.047	0.315	SC	R2
0.787	2.047	0.315	TBR	G2
0.787	2.047	0.315	TC	R2
0.787	2.047	0.354	TC	R2
0.787	2.047	0.394	SC	R2
0.787	2.047	0.394	TC	R2
0.787	2.047	0.472	TC	R2
0.787	2.441	0.276	TC	R2
0.803	1.063	0.079	VC	R2
0.807	1.102	0.197	TB	G2
0.807	1.622	0.197	TB2	C2
0.813	1.063	0.126	WPB	G4
0.813	1.241	0.169	SB	C2
0.813	1.250	0.189	SB	G2
0.813	1.250	0.252	SB2	GV
0.813	1.250	0.252	TBR	G2
0.813	1.250	0.252	TBR	C2
0.813	1.375	0.236	VB2	P2
0.813	1.375	0.252	TC	R2
0.813	1.375	0.311	TB2	PV
0.813	1.375	0.311	TBR	C2
0.813	1.375	0.374	SB2	G2
0.813	1.375	0.374	SB2	P2
0.813	1.375	0.374	TB	G2
0.813	1.437	0.252	TB2	G2
0.813	1.499	0.252	SB2	C2
0.813	1.500	0.252	SC	R2
0.813	1.624	0.252	TB	G2
0.813	1.625	0.252	TC	R2
0.813	1.750	0.189	SC	R2
0.827	1.063	0.197	KC	R2
0.827	1.102	0.157	SC	R2
0.827	1.102	0.217	TB	G2
0.827	1.142	0.157	KC	R2
0.827	1.181	0.256	TC	R2
0.827	1.181	0.394	TC	R2
0.827	1.220	0.276	TC	R2
0.827	1.260	0.197	TC	R2
0.827	1.260	0.236	TB	G2

Shaft	Bore	Width	Lip Style	Material
0.827	1.299	0.276	TC	R2
0.827	1.378	0.236	SC	R2
0.827	1.378	0.256	SC	R2
0.827	1.378	0.276	TC	R2
0.827	1.417	0.276	SC	R2
0.827	1.417	0.276	TC	R2
0.827	1.457	0.217	TC	R2
0.827	1.457	0.276	TC	R2
0.827	1.457	0.276	VB2	C2
0.827	1.457	0.276	VC	R2
0.827	1.575	0.276	TC	R2
0.827	1.890	0.315	TC	R2
0.843	1.375	0.252	SB2	P2
0.844	1.375	0.311	SB2	C2
0.844	1.828	0.311	TB2	C2
0.846	1.378	0.315	TC	R2
0.854	1.378	0.256	TC	R2
0.866	1.024	0.236	VC	R2
0.866	1.102	0.157	KC	R2
0.866	1.102	0.157	TC	R2
0.866	1.102	0.157	VB	G2
0.866	1.102	0.315	SC	R2
0.866	1.142	0.157	KC	R2
0.866	1.142	0.157	VC	R2
0.866	1.142	0.197	KC	R2
0.866	1.142	0.197	VC	R4
0.866	1.181	0.157	KC	R2
0.866	1.181	0.157	TC	R2
0.866	1.181	0.157	VB	G2
0.866	1.181	0.157	VC	R2
0.866	1.181	0.276	TC	R2
0.866	1.181	0.315	TC	R2
0.866	1.181	0.394	TC	R3
0.866	1.220	0.197	SC	R2
0.866	1.220	0.197	VC	R2
0.866	1.220	0.276	SB	C2
0.866	1.220	0.276	TC	R2
0.866	1.260	0.118	VB	G2
0.866	1.260	0.177	TC	R2
0.866	1.260	0.197	SC	R2
0.866	1.260	0.197	TC	R2
0.866	1.260	0.217	SB	G2
0.866	1.260	0.217	SC	R2
0.866	1.260	0.236	SC	R2
0.866	1.260	0.236	TC	R2
0.866	1.260	0.276	SB2	G2
0.866	1.260	0.276	SC	RS
0.866	1.260	0.276	SC	R2
0.866	1.260	0.276	TC	R2
0.866	1.260	0.315	TC	R2
0.866	1.299	0.276	TC	R2
0.866	1.299	0.394	TC	R2
0.866	1.339	0.276	SC	R2
0.866	1.339	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
0.866	1.358	0.236	SC	R2
0.866	1.378	0.197	TC	R2
0.866	1.378	0.217	SC	R2
0.866	1.378	0.236	SC	RV
0.866	1.378	0.236	SC	R2
0.866	1.378	0.236	TC	R2
0.866	1.378	0.252	SC	R2
0.866	1.378	0.276	DB	G2
0.866	1.378	0.276	DC	RS
0.866	1.378	0.276	SB2	P2
0.866	1.378	0.276	SC	RV
0.866	1.378	0.276	SC	R2
0.866	1.378	0.276	TB2	G2
0.866	1.378	0.276	TB2	P2
0.866	1.378	0.276	TC	R2
0.866	1.378	0.315	SA2	G2
0.866	1.378	0.315	SB	G2
0.866	1.378	0.315	SC	R2
0.866	1.378	0.315	TC	R2
0.866	1.378	0.354	TC	R2
0.866	1.378	0.394	SA2	G2
0.866	1.378	0.394	SC	R2
0.866	1.378	0.394	TC	R2
0.866	1.398	0.236	SC	R2
0.866	1.417	0.197	TC	R2
0.866	1.417	0.236	SC	R2
0.866	1.417	0.276	SC	R2
0.866	1.417	0.276	TC	R2
0.866	1.417	0.315	TB2	G2
0.866	1.417	0.315	TC	R2
0.866	1.417	0.394	SB2	C2
0.866	1.417	0.394	TC	R2
0.866	1.457	0.197	TC	R2
0.866	1.457	0.236	TC	R2
0.866	1.457	0.276	TC	R2
0.866	1.457	0.315	TC	R2
0.866	1.496	0.197	TC	R2
0.866	1.496	0.236	SC	R2
0.866	1.496	0.276	TC	R2
0.866	1.496	0.315	SBR	G2
0.866	1.496	0.315	SC	R2
0.866	1.496	0.315	TB	G2
0.866	1.496	0.315	TC	R2
0.866	1.496	0.394	TB2	G3
0.866	1.496	0.394	TC	R2
0.866	1.535	0.276	TC	R2
0.866	1.575	0.157	TC	R2
0.866	1.575	0.276	DC	R2
0.866	1.575	0.276	SC	R2
0.866	1.575	0.276	TC	R2
0.866	1.575	0.315	TBR	C2
0.866	1.575	0.315	TC	R2
0.866	1.575	0.335	DC	R2
0.866	1.575	0.394	DC	R2

Shaft	Bore	Width	Lip Style	Material
0.866	1.575	0.394	SC	R2
0.866	1.575	0.394	TC	R2
0.866	1.575	0.433	TC	R2
0.866	1.575	0.472	TC	R2
0.866	1.624	0.236	TC	R2
0.866	1.624	0.276	TB2	G2
0.866	1.634	0.236	TC	R2
0.866	1.634	0.276	TB2	G2
0.866	1.654	0.197	TC	R2
0.866	1.654	0.236	TC	R2
0.866	1.654	0.276	SC	R2
0.866	1.654	0.276	TB2	P2
0.866	1.654	0.276	TC	R2
0.866	1.654	0.315	TC	R2
0.866	1.654	0.394	SB2	G2
0.866	1.654	0.394	TB2	G2
0.866	1.654	0.394	TC	R2
0.866	1.654	0.433	TC	R2
0.866	1.693	0.236	TC	R2
0.866	1.732	0.276	TC	R2
0.866	1.772	0.197	TC	R2
0.866	1.772	0.276	SC	R2
0.866	1.772	0.276	TC	R2
0.866	1.772	0.315	TC	R2
0.866	1.772	0.394	TC	R2
0.866	1.811	0.315	TC	R2
0.866	1.850	0.276	SC	R2
0.866	1.850	0.276	TC	R2
0.866	1.850	0.394	SC	R2
0.866	1.850	0.394	TC	R2
0.866	1.850	0.472	TC	R2
0.866	1.890	0.276	TC	R2
0.866	1.890	0.433	TC	R2
0.866	1.969	0.197	TC	R2
0.866	1.969	0.276	SC	R2
0.866	1.969	0.276	TC	R2
0.866	1.969	0.394	TC	R2
0.866	2.047	0.315	TC	R2
0.866	2.047	0.394	TC	R2
0.866	2.165	0.276	TC	R2
0.866	2.205	0.276	TC	R2
0.866	2.441	0.213	SC	R2
0.866	2.441	0.394	TC	RV
0.875	1.125	0.126	VB	G2
0.875	1.125	0.126	WPB	G4
0.875	1.125	0.126	WPB	G4
0.875	1.125	0.252	VB	G2
0.875	1.127	0.126	VC	R2
0.875	1.187	0.157	VB	G2
0.875	1.187	0.189	VB	C2
0.875	1.187	0.189	VC	R2
0.875	1.248	0.295	SBR	C2
0.875	1.250	0.181	VBR	P2
0.875	1.250	0.189	SB	G2

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Shaft	Bore	Width	Lip Style	Material
0.875	1.250	0.189	SB	P2
0.875	1.250	0.189	SB	G2
0.875	1.250	0.189	SBR	G2
0.875	1.250	0.189	SC	RPA
0.875	1.250	0.189	TB	PPA
0.875	1.250	0.189	TC	R2
0.875	1.250	0.189	WPB	G4
0.875	1.250	0.252	SB2	GV
0.875	1.250	0.252	TBR	C2
0.875	1.250	0.276	SBR	G2
0.875	1.250	0.374	DB	G2
0.875	1.255	0.181	VB	PPA
0.875	1.260	0.252	TC	R2
0.875	1.308	0.252	VB	C2
0.875	1.313	0.220	SC	R2
0.875	1.313	0.252	KC	R2
0.875	1.313	0.252	SB	C2
0.875	1.313	0.252	VB2	P2
0.875	1.313	0.311	SC	RV
0.875	1.370	0.311	TC	R2
0.875	1.375	0.189	SB2	G2
0.875	1.375	0.252	SB2	G2
0.875	1.375	0.252	SBR	P2
0.875	1.375	0.252	SC	R2
0.875	1.375	0.252	SC	R2
0.875	1.375	0.252	TB2	G2
0.875	1.375	0.252	TB2	P2
0.875	1.375	0.252	TC	R2
0.875	1.375	0.252	VB	G2
0.875	1.375	0.252	VB2	G2
0.875	1.375	0.252	VC	R2
0.875	1.375	0.311	DC	R2
0.875	1.375	0.311	SA2	P2
0.875	1.375	0.311	SB	PPA
0.875	1.375	0.311	SB2	P2
0.875	1.375	0.311	SBR	G2
0.875	1.375	0.311	TB	P2
0.875	1.375	0.374	DBR	CV
0.875	1.375	0.374	DC	RH
0.875	1.375	0.374	SC	R2
0.875	1.375	0.390	TB	G2
0.875	1.437	0.252	VB	P2
0.875	1.499	0.252	SB2	P2
0.875	1.499	0.311	SA2	P2
0.875	1.499	0.311	SC	R2
0.875	1.500	0.252	SB2	G2
0.875	1.500	0.252	SC	R2
0.875	1.500	0.252	TB2	C2
0.875	1.500	0.252	VC	R2
0.875	1.500	0.311	DBR	C2
0.875	1.500	0.311	SB2	C2
0.875	1.500	0.311	SB2	C2
0.875	1.500	0.311	SBR	G2
0.875	1.500	0.311	SBR	G2

Shaft	Bore	Width	Lip Style	Material
0.875	1.500	0.311	TC	R2
0.875	1.500	0.374	SC	R2
0.875	1.524	0.126	SC	R2
0.875	1.575	0.185	SB	C2
0.875	1.575	0.185	SB	C2
0.875	1.575	0.252	SB2	P2
0.875	1.625	0.189	KB2	G2
0.875	1.625	0.252	TB2	G2
0.875	1.625	0.252	TB2	P2
0.875	1.625	0.311	SB2	P2
0.875	1.625	0.374	SC	R2
0.875	1.686	0.374	TC	R2
0.875	1.750	0.311	TB2	PV
0.875	1.750	0.374	SC	R2
0.875	1.874	0.252	TB2	G2
0.875	1.875	0.252	SB2	P2
0.875	1.875	0.252	TC	R2
0.875	1.875	0.374	SC	R2
0.875	2.000	0.252	SB2	P2
0.875	2.000	0.252	SC	R2
0.875	2.000	0.437	TB2	G2
0.875	2.047	0.311	TC	RV
0.875	2.050	0.374	SA2	GV
0.875	2.063	0.354	SC	R2
0.875	2.063	0.437	SC	R2
0.878	1.249	0.189	SA2	G2
0.882	1.378	0.236	SC	R2
0.886	1.142	0.197	VC	R2
0.894	1.850	0.276	SC	R2
0.900	1.500	0.252	VB	P2
0.900	1.500	0.252	VB2	P2
0.900	1.500	0.252	VC	R2
0.906	1.102	0.118	WPB	G4
0.906	1.181	0.157	VC	R2
0.906	1.252	0.217	VC	R2
0.906	1.260	0.197	KC	R2
0.906	1.260	0.197	TBR	G2
0.906	1.260	0.276	TC	R2
0.906	1.378	0.276	TC	R2
0.906	1.378	0.315	TB	G2
0.906	1.378	0.315	TC	R2
0.906	1.398	0.236	SC	R2
0.906	1.417	0.236	SC	RV
0.906	1.417	0.236	TC	R2
0.906	1.417	0.276	TC	R2
0.906	1.417	0.394	TC	R2
0.906	1.417	0.512	TC	R2
0.906	1.457	0.236	SC	R2
0.906	1.457	0.276	SC	R2
0.906	1.457	0.276	TC	R2
0.906	1.496	0.236	TC	R2
0.906	1.496	0.276	TC	R2
0.906	1.496	0.394	TC	R2
0.906	1.499	0.390	TB2	P2

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Shaft	Bore	Width	Lip Style	Material
0.906	1.575	0.236	SC	R2
0.906	1.575	0.236	TC	R2
0.906	1.575	0.315	SC	R2
0.906	1.575	0.315	TC	R2
0.906	1.575	0.394	SC	R2
0.906	1.575	0.394	TC	R2
0.906	1.654	0.236	TC	R2
0.906	1.654	0.276	TC	R2
0.906	1.654	0.315	TC	R2
0.906	1.654	0.394	SC	R2
0.906	1.693	0.315	TC	R2
0.906	1.693	0.394	TC	R2
0.906	1.850	0.276	TC	R2
0.906	1.850	0.315	TC	R2
0.906	1.850	0.394	TC	R2
0.910	1.375	0.311	SB	G2
0.917	1.169	0.157	VC	R2
0.937	1.187	0.126	VC	R2
0.937	1.187	0.126	WPB	G4
0.937	1.375	0.252	TB	P2
0.937	1.375	0.252	TB	P2
0.937	1.375	0.252	VC	RV
0.937	1.437	0.252	SC	RV
0.937	1.437	0.252	VC	R2
0.937	1.499	0.252	TB2	P2
0.937	1.500	0.252	SC	RV
0.937	1.500	0.252	TB2	G2
0.937	1.500	0.374	TC	R2
0.937	1.578	0.311	TC	R2
0.937	1.624	0.252	TB2	P2
0.937	1.625	0.413	SC	R2
0.937	1.625	0.413	SC	R2
0.937	1.750	0.311	TC	R2
0.937	1.750	0.374	SC	R2
0.937	1.752	0.252	SB2	P2
0.937	1.828	0.252	SB2	C2
0.937	1.831	0.437	SA2	P2
0.937	1.850	0.311	TB2	P2
0.937	2.000	0.500	DB2	G2
0.938	1.375	0.252	VB2	P2
0.938	1.375	0.252	VB2	P2
0.938	1.500	0.252	SB2	P2
0.945	1.165	0.157	VC	R2
0.945	1.181	0.197	TB2	C2
0.945	1.220	0.157	VC	R2
0.945	1.220	0.197	KC	R2
0.945	1.248	0.157	VC	R4
0.945	1.260	0.157	TB	G2
0.945	1.260	0.157	TC	R2
0.945	1.260	0.276	SB	G2
0.945	1.260	0.276	TC	R2
0.945	1.299	0.276	TC	R2
0.945	1.307	0.157	VC	R2
0.945	1.339	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.945	1.358	0.276	SB2	C2
0.945	1.378	0.236	SC	R2
0.945	1.378	0.236	TC	R2
0.945	1.378	0.276	SC	R2
0.945	1.378	0.276	TC	R2
0.945	1.378	0.315	TC	R2
0.945	1.378	0.335	TB	C2
0.945	1.417	0.157	VC	R2
0.945	1.417	0.236	SC	R2
0.945	1.417	0.236	TB	G2
0.945	1.417	0.276	TC	R2
0.945	1.417	0.315	KC	R2
0.945	1.417	0.315	TC	R2
0.945	1.437	0.433	TC	R2
0.945	1.457	0.197	SC	R2
0.945	1.457	0.276	SC	R2
0.945	1.457	0.276	TC	R2
0.945	1.457	0.276	VC	R2
0.945	1.496	0.197	VC	R2
0.945	1.496	0.236	TBR	C2
0.945	1.496	0.276	TC	R2
0.945	1.496	0.315	TC	R2
0.945	1.496	0.335	TC	R2
0.945	1.496	0.394	TC	R2
0.945	1.575	0.256	SC	R2
0.945	1.575	0.276	SC	R2
0.945	1.575	0.276	TC	R2
0.945	1.575	0.315	SC	R2
0.945	1.575	0.315	TB2	G2
0.945	1.575	0.315	TC	R2
0.945	1.575	0.394	SC	R2
0.945	1.622	0.276	TB	G2
0.945	1.654	0.276	TC	R2
0.945	1.654	0.315	TC	R2
0.945	1.654	0.394	SC	R2
0.945	1.693	0.236	KC	R2
0.945	1.693	0.236	TC	R2
0.945	1.693	0.276	TC	R2
0.945	1.693	0.335	TBR	GPA
0.945	1.693	0.335	TC	R2
0.945	1.772	0.236	TC	R2
0.945	1.772	0.276	TC	R2
0.945	1.772	0.315	TC	R2
0.945	1.772	0.394	TC	R2
0.945	1.772	0.433	TC	R2
0.945	1.811	0.315	TC	R2
0.945	1.811	0.394	TC	R2
0.945	1.850	0.236	SC	R2
0.945	1.850	0.252	SC	R2
0.945	1.850	0.252	SC	R2
0.945	1.850	0.276	SC	R2
0.945	1.850	0.276	TC	R2
0.945	1.850	0.394	SC	R2
0.945	1.850	0.394	TC	R2
0.945	1.890	0.276	TC	R2



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Shaft	Bore	Width	Lip Style	Material
0.945	1.929	0.315	TC	R2
0.945	1.929	0.472	TC	R2
0.945	1.969	0.472	TC	R2
0.945	2.047	0.276	TC	R2
0.945	2.047	0.315	TC	R2
0.945	2.047	0.394	SC	R2
0.945	2.165	0.394	TC	R2
0.945	2.441	0.189	TB2	PV
0.945	2.441	0.276	TC	R2
0.945	3.031	0.709	TC	R2
0.953	1.356	0.276	SB	P2
0.965	1.750	0.311	TC	R2
0.965	1.969	0.354	TC	R2
0.965	2.000	0.374	SC	R2
0.965	2.000	0.374	SC	R2
0.968	1.499	0.311	SA2	G2
0.968	1.750	0.311	SBR	CV
0.969	1.250	0.126	VB	G2
0.969	1.406	0.252	TB	G2
0.969	1.500	0.252	SB2	C2
0.969	1.500	0.311	SB	G2
0.969	1.503	0.252	SB2	P2
0.969	1.624	0.252	SB2	PV
0.969	1.624	0.252	SB2	PV
0.969	1.624	0.252	TC	R2
0.969	1.750	0.311	SB2	G2
0.969	1.850	0.311	TB2	P2
0.969	1.850	0.311	TC	R2
0.969	1.850	0.374	SB2	C2
0.969	2.047	0.374	TC	R2
0.969	2.440	0.252	TB2	PPA
0.969	2.440	0.252	TC	RPA
0.976	1.654	0.189	WPB	G4
0.976	1.654	0.189	WPB	G4
0.984	1.181	0.157	VC	R2
0.984	1.220	0.197	VC	R4
0.984	1.260	0.157	KB	G2
0.984	1.260	0.157	KC	R2
0.984	1.260	0.157	TC	R2
0.984	1.260	0.157	VB	G2
0.984	1.260	0.157	VC	R2
0.984	1.260	0.157	WPB	G4
0.984	1.260	0.197	VB	G2
0.984	1.260	0.236	SC	R2
0.984	1.260	0.236	TC	R2
0.984	1.260	0.276	TB	G2
0.984	1.260	0.276	TC	R2
0.984	1.299	0.157	SC	R2
0.984	1.299	0.157	VB	C2
0.984	1.299	0.197	TB	G2
0.984	1.299	0.236	SC	R2
0.984	1.299	0.236	TC	R2
0.984	1.339	0.197	TB	G2
0.984	1.339	0.197	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.984	1.339	0.197	VB	G2
0.984	1.339	0.276	SC	R2
0.984	1.339	0.276	TC	R2
0.984	1.375	0.189	SC	R2
0.984	1.378	0.157	VB	G2
0.984	1.378	0.157	WPC	R4
0.984	1.378	0.197	SC	R2
0.984	1.378	0.197	TC	R2
0.984	1.378	0.197	VB	G2
0.984	1.378	0.236	SB	G2
0.984	1.378	0.236	SC	R2
0.984	1.378	0.236	TC	R2
0.984	1.378	0.276	DB	G2
0.984	1.378	0.276	DC	R2
0.984	1.378	0.276	KC	R2
0.984	1.378	0.276	SB2	C2
0.984	1.378	0.276	SC	RV
0.984	1.378	0.276	SC	R2
0.984	1.378	0.276	TB	GV
0.984	1.378	0.276	TB2	C2
0.984	1.378	0.276	TC	RV
0.984	1.378	0.276	TC	RV
0.984	1.378	0.276	TC	R2
0.984	1.378	0.276	VC	R2
0.984	1.378	0.315	DC	RV
0.984	1.378	0.315	TB	GPA
0.984	1.378	0.315	TC	R2
0.984	1.378	0.335	TC	R2
0.984	1.378	0.354	SC	R2
0.984	1.378	0.354	TC	R2
0.984	1.378	0.394	DC	R2
0.984	1.378	0.394	TB	G2
0.984	1.378	0.394	TC	R2
0.984	1.417	0.236	TC	R2
0.984	1.417	0.276	SC	R2
0.984	1.417	0.276	TC	R2
0.984	1.417	0.287	SB2	GV
0.984	1.417	0.315	TC	R2
0.984	1.456	0.276	SB2	P2
0.984	1.457	0.197	SC	R2
0.984	1.457	0.197	SC	R2
0.984	1.457	0.197	TC	R2
0.984	1.457	0.236	SC	R2
0.984	1.457	0.236	TC	R2
0.984	1.457	0.276	DC	R2
0.984	1.457	0.276	KC	R2
0.984	1.457	0.276	SC	RS
0.984	1.457	0.276	SC	R2
0.984	1.457	0.276	TB	G2
0.984	1.457	0.276	TC	R2
0.984	1.457	0.295	SC	R2
0.984	1.457	0.315	SC	R2
0.984	1.457	0.315	TC	R2
0.984	1.496	0.157	VB	G2

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Shaft	Bore	Width	Lip Style	Material
0.984	1.496	0.197	KB2	G2
0.984	1.496	0.197	SC	R2
0.984	1.496	0.197	VB2	G2
0.984	1.496	0.197	VC	R2
0.984	1.496	0.236	TC	R2
0.984	1.496	0.276	SC	R2
0.984	1.496	0.276	TB2	G2
0.984	1.496	0.276	TB2	P2
0.984	1.496	0.276	TC	R2
0.984	1.496	0.315	DC	R2
0.984	1.496	0.315	SA2	G2
0.984	1.496	0.315	TC	R2
0.984	1.496	0.394	TC	R2
0.984	1.498	0.252	SB2	CV
0.984	1.499	0.252	DC	R2
0.984	1.499	0.252	TB2	P2
0.984	1.499	0.252	TC	R2
0.984	1.500	0.252	TB2	P2
0.984	1.500	0.252	TC	R2
0.984	1.535	0.256	VB	G2
0.984	1.535	0.315	TC	R2
0.984	1.575	0.197	SC	R2
0.984	1.575	0.197	TC	R2
0.984	1.575	0.236	TC	RPA
0.984	1.575	0.236	TC	R2
0.984	1.575	0.276	SB2	P2
0.984	1.575	0.276	SC	R2
0.984	1.575	0.276	TB2	G2
0.984	1.575	0.276	TB2	P2
0.984	1.575	0.276	TC	R2
0.984	1.575	0.315	DC	R2
0.984	1.575	0.315	SC	R2
0.984	1.575	0.315	TB2	G2
0.984	1.575	0.315	TC	R2
0.984	1.575	0.354	DC	R2
0.984	1.575	0.354	TC	R2
0.984	1.575	0.394	DC	R2
0.984	1.575	0.394	SA2	G2
0.984	1.575	0.394	SB2	G2
0.984	1.575	0.394	SC	R2
0.984	1.575	0.394	TC	R2
0.984	1.575	0.433	TC	R2
0.984	1.575	0.472	DC	R2
0.984	1.575	0.472	TC	R2
0.984	1.585	0.276	TC	R2
0.984	1.614	0.236	TC	R2
0.984	1.614	0.276	TC	R2
0.984	1.624	0.236	TC	R2
0.984	1.624	0.276	TB2	G2
0.984	1.624	0.276	TC	R2
0.984	1.624	0.315	TC	R2
0.984	1.634	0.276	TA2	G2
0.984	1.634	0.276	TB2	G3
0.984	1.634	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.984	1.634	0.394	TC	R2
0.984	1.654	0.157	SC	R2
0.984	1.654	0.197	TC	R2
0.984	1.654	0.197	VC	R2
0.984	1.654	0.217	TC	R2
0.984	1.654	0.236	SC	R2
0.984	1.654	0.236	TC	R2
0.984	1.654	0.276	SC	R2
0.984	1.654	0.276	TC	R2
0.984	1.654	0.315	SB2	G2
0.984	1.654	0.315	SC	R2
0.984	1.654	0.315	TC	R2
0.984	1.654	0.335	SC	R2
0.984	1.654	0.335	TC	R2
0.984	1.654	0.394	SA2	C2
0.984	1.654	0.394	SC	R2
0.984	1.654	0.394	TC	R2
0.984	1.654	0.472	TC	R2
0.984	1.689	0.374	TC	R2
0.984	1.693	0.236	TC	R2
0.984	1.693	0.276	TC	R2
0.984	1.693	0.315	TB2	G2
0.984	1.693	0.315	TC	R2
0.984	1.693	0.354	TC	R2
0.984	1.693	0.394	SC	R2
0.984	1.693	0.394	TC	R2
0.984	1.693	0.394	TC	R2
0.984	1.693	0.472	TC	R2
0.984	1.732	0.276	TC	R2
0.984	1.732	0.315	TC	R2
0.984	1.732	0.331	TC	RV
0.984	1.732	0.394	TC	R2
0.984	1.750	0.394	TC	R2
0.984	1.772	0.256	SC	R2
0.984	1.772	0.276	TC	R2
0.984	1.772	0.315	TC	R2
0.984	1.772	0.354	TC	R2
0.984	1.772	0.394	DC	RP
0.984	1.772	0.394	SB2	G2
0.984	1.772	0.394	SC	R2
0.984	1.772	0.394	TB2	G2
0.984	1.772	0.394	TC	R2
0.984	1.772	0.433	TC	R2
0.984	1.772	0.472	TC	R2
0.984	1.811	0.276	SC	R2
0.984	1.811	0.276	TC	R2
0.984	1.828	0.189	WPB	G4
0.984	1.850	0.197	SC	R2
0.984	1.850	0.197	TC	R2
0.984	1.850	0.209	SC	RV
0.984	1.850	0.236	SC	R2
0.984	1.850	0.236	TB2	G2
0.984	1.850	0.236	TC	RPA
0.984	1.850	0.236	TC	R2
0.984	1.850	0.252	SB2	P2



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oil seal size listing

Shaft	Bore	Width	Lip Style	Material
0.984	1.850	0.276	SC	RS
0.984	1.850	0.276	SC	RS
0.984	1.850	0.276	SC	R2
0.984	1.850	0.276	TB2	C2
0.984	1.850	0.276	TC	R2
0.984	1.850	0.315	DC	R2
0.984	1.850	0.315	SC	R2
0.984	1.850	0.315	TC	R2
0.984	1.850	0.394	DC	R2
0.984	1.850	0.394	SC	R2
0.984	1.850	0.394	TC	R2
0.984	1.850	0.472	TC	R2
0.984	1.890	0.276	TC	R2
0.984	1.890	0.315	SB2	P2
0.984	1.890	0.315	SC	R2
0.984	1.890	0.315	TC	R2
0.984	1.890	0.394	TC	R2
0.984	1.929	0.394	TC	R2
0.984	1.969	0.276	TC	R2
0.984	1.969	0.315	TC	R2
0.984	1.969	0.394	SC	R2
0.984	1.969	0.394	TC	R2
0.984	1.969	0.472	TC	R2
0.984	2.008	0.394	TC	R2
0.984	2.047	0.197	TC	R2
0.984	2.047	0.276	SC	R2
0.984	2.047	0.276	TC	R2
0.984	2.047	0.311	TB2	P2
0.984	2.047	0.315	DC	R2
0.984	2.047	0.315	SC	R2
0.984	2.047	0.315	TC	R2
0.984	2.047	0.354	DC	R2
0.984	2.047	0.374	TC	R2
0.984	2.047	0.394	SC	R2
0.984	2.047	0.394	TC	R2
0.984	2.047	0.394	TC	R2
0.984	2.047	0.394	TC	R2
0.984	2.047	0.472	SB2	G2
0.984	2.047	0.472	TC	R2
0.984	2.087	0.394	TC	R2
0.984	2.126	0.315	TC	R2
0.984	2.165	0.315	TC	R2
0.984	2.165	0.354	TC	R2
0.984	2.165	0.394	TC	R2
0.984	2.165	0.472	TC	R2
0.984	2.185	0.256	SB2	PV
0.984	2.205	0.472	TC	R2
0.984	2.283	0.394	TC	R2
0.984	2.362	0.276	TC	R3
0.984	2.362	0.394	TC	R2
0.984	2.441	0.236	SC	R2
0.984	2.441	0.236	TC	R2
0.984	2.441	0.276	SC	R2
0.984	2.441	0.276	TC	R2
0.984	2.441	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
0.984	2.441	0.315	SC	R2
0.984	2.441	0.315	TC	R2
0.984	2.441	0.394	SC	R2
0.984	2.441	0.394	TC	R2
0.984	2.441	0.472	TC	R2
0.984	2.520	0.512	TB2	G2
0.984	2.559	0.394	TC	R2
0.984	2.598	0.335	TC	R2
0.984	2.756	0.394	TC	R2
0.984	2.835	0.276	SC	R3
0.984	2.835	0.276	TC	R2
0.984	2.835	0.315	TC	R2
0.984	3.150	0.394	TC	R2
0.985	2.000	0.406	TA2	C2
0.987	1.500	0.252	TB2	G2
0.996	1.540	0.291	VC	R2
0.998	1.250	0.126	SBR	P2
0.998	1.250	0.126	SBR	P2
1.000	1.250	0.118	VB	G2
1.000	1.250	0.125	KB	G2
1.000	1.250	0.126	SC	R2
1.000	1.250	0.126	VB	C2
1.000	1.250	0.126	VB	C2
1.000	1.250	0.126	VC	R2
1.000	1.250	0.126	WPB	G4
1.000	1.250	0.126	WPC	R4
1.000	1.250	0.252	TC	R2
1.000	1.313	0.126	VB2	C2
1.000	1.319	0.220	KC	P2
1.000	1.322	0.209	SB2	C2
1.000	1.375	0.187	TC	R2
1.000	1.375	0.189	SBR	C2
1.000	1.375	0.189	SC	R2
1.000	1.375	0.189	VB	P2
1.000	1.375	0.189	VB	P2
1.000	1.375	0.189	VBR	G2
1.000	1.375	0.189	WPB	G4
1.000	1.375	0.220	KC	P2
1.000	1.375	0.250	TC	R2
1.000	1.375	0.252	SB	G2
1.000	1.375	0.252	SB	G2
1.000	1.375	0.252	SC	R2
1.000	1.375	0.252	TB2	P2
1.000	1.378	0.197	TC	R2
1.000	1.437	0.252	SB2	P2
1.000	1.437	0.252	SC	R2
1.000	1.437	0.252	TB2	G2
1.000	1.437	0.252	TC	R2
1.000	1.437	0.390	SB2	C2
1.000	1.449	0.228	TC	R2
1.000	1.455	0.276	TC	R2
1.000	1.455	0.441	TC	R2
1.000	1.459	0.220	TC	R2
1.000	1.469	0.189	SC	R2

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Shaft	Bore	Width	Lip Style	Material
1.000	1.499	0.252	SB2	G2
1.000	1.499	0.252	TB	C2
1.000	1.499	0.252	TB2	P2
1.000	1.499	0.252	TC	R2
1.000	1.499	0.311	TB2	G2
1.000	1.500	0.189	TC	R2
1.000	1.500	0.189	WPB	G4
1.000	1.500	0.252	SB2	P2
1.000	1.500	0.252	SB2	PPA
1.000	1.500	0.252	SBR	GV
1.000	1.500	0.252	SC	R2
1.000	1.500	0.252	TB2	G2
1.000	1.500	0.252	TB2	P2
1.000	1.500	0.252	TC	R2
1.000	1.500	0.252	VC	R2
1.000	1.500	0.252	VC	R2
1.000	1.500	0.311	SB2	C2
1.000	1.500	0.311	TB2	G2
1.000	1.500	0.311	WPB	G4
1.000	1.500	0.327	TB	G2
1.000	1.500	0.374	SC	R2
1.000	1.500	0.374	TC	R2
1.000	1.500	0.390	DC	R2
1.000	1.500	0.390	SB	G2
1.000	1.500	0.390	TA2	G2
1.000	1.561	0.252	TB2	G2
1.000	1.563	0.189	VC	R2
1.000	1.575	0.252	TB2	P2
1.000	1.575	0.276	TC	R2
1.000	1.618	0.354	DC	R2
1.000	1.620	0.374	SA2	G2
1.000	1.624	0.189	VC	R2
1.000	1.624	0.250	SB2	P2
1.000	1.624	0.252	TC	R2
1.000	1.624	0.252	VB2	G2
1.000	1.624	0.252	WPB	G4
1.000	1.624	0.311	TC	R2
1.000	1.625	0.374	SC	R2
1.000	1.625	0.374	TC	R2
1.000	1.686	0.252	TB2	C2
1.000	1.686	0.311	TB	G2
1.000	1.687	0.311	SC	R2
1.000	1.687	0.311	TBR	C2
1.000	1.750	0.189	SB	G2
1.000	1.750	0.189	TC	R2
1.000	1.750	0.252	SC	R2
1.000	1.750	0.252	TB2	G2
1.000	1.750	0.252	TB2	P2
1.000	1.750	0.252	TC	R2
1.000	1.750	0.311	TB2	P2
1.000	1.750	0.327	SA2	G2
1.000	1.750	0.374	SB2	P2
1.000	1.750	0.374	SC	R2
1.000	1.750	0.437	TB2	C2

Shaft	Bore	Width	Lip Style	Material
1.000	1.752	0.252	SB2	PPA
1.000	1.752	0.252	SB2	PPA
1.000	1.752	0.252	TB2	P2
1.000	1.752	0.311	SB2	C2
1.000	1.752	0.374	SB2	G2
1.000	1.752	0.374	TC	R2
1.000	1.752	0.437	SA2	CV
1.000	1.781	0.374	VB2	C2
1.000	1.782	0.252	TC	R2
1.000	1.826	0.374	SB2	P2
1.000	1.828	0.252	SB2	G2
1.000	1.828	0.374	SA2	G2
1.000	1.833	0.252	TC	R2
1.000	1.851	0.252	SB2	P2
1.000	1.874	0.437	TB2	G2
1.000	1.875	0.252	TC	R2
1.000	1.875	0.437	SC	R2
1.000	1.967	0.252	TC	R2
1.000	1.979	0.252	TC	R2
1.000	1.980	0.311	TB2	P2
1.000	1.980	0.374	TB2	P2
1.000	1.983	0.252	TB2	G2
1.000	2.000	0.252	SC	R2
1.000	2.000	0.252	TB2	G2
1.000	2.000	0.252	TC	R2
1.000	2.000	0.252	VC	R2
1.000	2.000	0.311	TB2	P2
1.000	2.000	0.374	SC	R2
1.000	2.000	0.374	TBR	G2
1.000	2.000	0.374	TC	R2
1.000	2.000	0.500	SC	R2
1.000	2.000	0.500	TC	R2
1.000	2.040	0.252	TB2	G2
1.000	2.047	0.276	TC	R2
1.000	2.047	0.311	TB2	G2
1.000	2.062	0.252	TB2	P2
1.000	2.062	0.374	SA2	P2
1.000	2.063	0.252	SC	R2
1.000	2.063	0.374	SC	R2
1.000	2.125	0.374	SC	R2
1.000	2.313	0.311	TC	R2
1.000	2.362	0.315	TC	R2
1.000	2.441	0.374	TB2	G2
1.000	2.441	0.374	TB2	P2
1.000	2.441	0.374	TC	R2
1.000	2.500	0.311	TC	R2
1.012	1.378	0.276	TC	R2
1.016	1.499	0.252	SB2	P2
1.024	1.220	0.118	VB	G2
1.024	1.260	0.157	KC	R2
1.024	1.260	0.157	VBR	G2
1.024	1.260	0.197	SB	G2
1.024	1.339	0.157	KC	P2
1.024	1.339	0.157	SC	RV

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Shaft	Bore	Width	Lip Style	Material
1.024	1.339	0.157	VB	G2
1.024	1.339	0.354	KC	R2
1.024	1.378	0.157	VC	R2
1.024	1.378	0.276	TC	R2
1.024	1.417	0.197	TC	R2
1.024	1.417	0.276	TC	R2
1.024	1.457	0.236	SC	R2
1.024	1.457	0.236	TB	G2
1.024	1.457	0.276	SC	R2
1.024	1.457	0.276	TB	G2
1.024	1.457	0.276	TC	R2
1.024	1.457	0.315	TC	R2
1.024	1.496	0.197	SC	R2
1.024	1.496	0.197	TC	R2
1.024	1.496	0.236	SB	CPA
1.024	1.496	0.276	TC	R2
1.024	1.496	0.315	SC	R2
1.024	1.496	0.315	TC	R2
1.024	1.535	0.197	SC	R2
1.024	1.575	0.197	TC	R2
1.024	1.575	0.197	VC	R2
1.024	1.575	0.236	SC	R2
1.024	1.575	0.276	TC	R2
1.024	1.575	0.315	TC	R2
1.024	1.575	0.394	TC	R2
1.024	1.614	0.276	TC	R2
1.024	1.626	0.394	TC	R2
1.024	1.654	0.236	SC	R2
1.024	1.654	0.276	SC	R2
1.024	1.654	0.276	TC	R2
1.024	1.654	0.315	SB2	C2
1.024	1.654	0.315	SC	R2
1.024	1.654	0.315	TC	RPA
1.024	1.654	0.315	TC	R2
1.024	1.654	0.394	TA2	G2
1.024	1.654	0.394	TC	R2
1.024	1.693	0.236	TB	G2
1.024	1.693	0.276	TC	R2
1.024	1.693	0.315	TC	R2
1.024	1.732	0.276	TC	R2
1.024	1.772	0.276	TC	R2
1.024	1.772	0.315	TC	R2
1.024	1.772	0.394	SB	G2
1.024	1.772	0.394	TC	R2
1.024	1.850	0.197	TC	R2
1.024	1.850	0.236	TC	R2
1.024	1.850	0.276	SC	R2
1.024	1.850	0.315	DC	R2
1.024	1.850	0.315	TC	R2
1.024	1.850	0.354	SC	R2
1.024	1.850	0.394	SC	R2
1.024	1.850	0.394	TC	R2
1.024	1.850	0.433	TC	R2
1.024	1.850	0.472	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.024	1.890	0.276	TC	R2
1.024	1.890	0.315	TC	R2
1.024	1.969	0.276	TC	R2
1.024	1.969	0.394	TC	R2
1.024	2.047	0.276	SC	R2
1.024	2.047	0.276	TC	R2
1.024	2.047	0.315	DC	R2
1.024	2.047	0.315	SC	R2
1.024	2.441	0.354	TC	R2
1.024	2.835	0.394	TC	R2
1.031	1.575	0.311	TB2	G2
1.031	1.575	0.311	TB2	P2
1.031	1.575	0.311	TB2	P2
1.031	1.575	0.311	TC	R2
1.031	1.575	0.311	TC	R2
1.043	1.457	0.276	SC	RV
1.045	1.261	0.177	VB	GV
1.061	1.312	0.126	WPB	GV
1.061	1.328	0.161	WPC	R4
1.062	1.625	0.311	SBR	CPA
1.062	1.687	0.343	SB	C2
1.063	1.260	0.126	VB	G2
1.063	1.260	0.126	VC	R2
1.063	1.327	0.157	KB	C2
1.063	1.339	0.118	VB2	G2
1.063	1.339	0.157	KC	R2
1.063	1.371	0.189	TBR	P2
1.063	1.378	0.157	VB	G2
1.063	1.378	0.236	TC	R2
1.063	1.417	0.236	TC	R2
1.063	1.417	0.276	SC	R2
1.063	1.417	0.394	DC	R2
1.063	1.457	0.197	SC	R2
1.063	1.457	0.236	TC	R2
1.063	1.457	0.276	SB	G2
1.063	1.457	0.276	SC	R2
1.063	1.457	0.276	TC	R2
1.063	1.457	0.315	TC	R2
1.063	1.457	0.335	TC	R2
1.063	1.496	0.197	TC	R2
1.063	1.496	0.236	TC	R2
1.063	1.496	0.276	TC	R2
1.063	1.496	0.276	TC	R2
1.063	1.499	0.252	SB	P2
1.063	1.500	0.126	WPB	G4
1.063	1.500	0.189	WPB	G4
1.063	1.500	0.189	WPB	G4
1.063	1.500	0.252	VC	R2
1.063	1.561	0.126	VC	R2
1.063	1.563	0.126	VB	G2
1.063	1.575	0.177	TC	R2
1.063	1.575	0.197	TC	R2
1.063	1.575	0.236	KC	R2
1.063	1.575	0.236	SC	R2
1.063	1.575	0.236	TC	R2

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Shaft	Bore	Width	Lip Style	Material
1.063	1.575	0.276	TC	R2
1.063	1.575	0.315	TC	R2
1.063	1.575	0.394	TC	R2
1.063	1.575	0.472	TC	R2
1.063	1.614	0.276	TC	R2
1.063	1.614	0.394	SC	R2
1.063	1.625	0.189	VC	RPA
1.063	1.625	0.252	TB2	P2
1.063	1.625	0.311	SA2	P2
1.063	1.625	0.374	SC	R2
1.063	1.634	0.374	SB	G2
1.063	1.654	0.197	TC	R2
1.063	1.654	0.276	TC	R2
1.063	1.654	0.315	TC	R2
1.063	1.654	0.394	SC	R2
1.063	1.654	0.394	TC	R2
1.063	1.686	0.311	TBR	C2
1.063	1.693	0.315	SC	R2
1.063	1.693	0.315	TC	R2
1.063	1.693	0.354	TB	G2
1.063	1.693	0.354	TC	R2
1.063	1.750	0.252	TB2	P2
1.063	1.750	0.374	SC	R2
1.063	1.772	0.315	TC	R2
1.063	1.850	0.236	SC	R2
1.063	1.850	0.276	TC	R2
1.063	1.850	0.315	TC	R2
1.063	1.850	0.394	SC	R2
1.063	1.874	0.252	TB2	P2
1.063	1.890	0.315	TB	G2
1.063	1.890	0.315	TC	R2
1.063	1.929	0.295	TC	R2
1.063	1.929	0.394	SC	R2
1.063	1.969	0.394	TC	R2
1.063	1.980	0.374	TB2	P2
1.063	1.983	0.311	SA2	G2
1.063	2.000	0.252	TC	RV
1.063	2.047	0.315	SB2	P2
1.063	2.047	0.315	TC	R2
1.063	2.087	0.276	TC	R2
1.063	2.165	0.276	TC	R2
1.063	2.441	0.472	TA2	G2
1.087	1.575	0.217	TC	R2
1.088	1.625	0.276	SB	G2
1.094	1.875	0.374	SC	R2
1.100	1.563	0.252	SC	R2
1.100	1.572	0.307	SBR	CPA
1.102	1.260	0.276	VC	R2
1.102	1.339	0.157	KC	R2
1.102	1.378	0.098	VB	G2
1.102	1.378	0.118	VB	G2
1.102	1.378	0.157	KB	G2
1.102	1.378	0.157	KC	R2
1.102	1.378	0.157	VB	G2

Shaft	Bore	Width	Lip Style	Material
1.102	1.378	0.197	KB	C2
1.102	1.378	0.197	SC	R2
1.102	1.378	0.197	TC	R2
1.102	1.378	0.197	VC	R2
1.102	1.378	0.236	TC	R2
1.102	1.378	0.276	TC	R2
1.102	1.378	0.315	TC	R2
1.102	1.378	0.354	TC	R2
1.102	1.378	0.394	TC	R2
1.102	1.417	0.118	KB	C2
1.102	1.417	0.236	TB	G2
1.102	1.417	0.276	TC	R2
1.102	1.457	0.157	SB	C3
1.102	1.457	0.157	TC	R2
1.102	1.457	0.157	VC	R2
1.102	1.457	0.236	TB	G2
1.102	1.457	0.236	TC	R2
1.102	1.457	0.236	VB	G2
1.102	1.457	0.236	VBR	G2
1.102	1.457	0.236	VC	R2
1.102	1.457	0.276	SC	R2
1.102	1.457	0.276	TC	R2
1.102	1.457	0.315	TC	R2
1.102	1.496	0.157	VB	G2
1.102	1.496	0.197	TC	R2
1.102	1.496	0.197	VC	R2
1.102	1.496	0.217	SC	R2
1.102	1.496	0.236	SC	RV
1.102	1.496	0.256	SC	R2
1.102	1.496	0.256	VBR	C2
1.102	1.496	0.276	SB	G2
1.102	1.496	0.276	SC	R2
1.102	1.496	0.276	TC	R2
1.102	1.496	0.315	TA2	PPA
1.102	1.496	0.315	TC	R2
1.102	1.496	0.394	SB	G2
1.102	1.496	0.394	TC	R2
1.102	1.535	0.236	VBR	C2
1.102	1.535	0.252	VB	G2
1.102	1.575	0.197	TC	R2
1.102	1.575	0.197	VC	R2
1.102	1.575	0.276	SB	CPA
1.102	1.575	0.276	SBR	G2
1.102	1.575	0.276	SC	R2
1.102	1.575	0.276	TC	R2
1.102	1.575	0.315	DC	R2
1.102	1.575	0.315	TB	G2
1.102	1.575	0.315	TBR	G2
1.102	1.575	0.315	TC	R2
1.102	1.575	0.354	TC	R2
1.102	1.575	0.394	TC	R2
1.102	1.614	0.276	TC	R2
1.102	1.614	0.315	TB	G2
1.102	1.624	0.236	TC	R2

Tobar

oil seal size listing

Shaft	Bore	Width	Lip Style	Material
1.102	1.626	0.276	TBR	G2
1.102	1.634	0.276	TB	G2
1.102	1.634	0.315	TC	R2
1.102	1.654	0.157	VC	R2
1.102	1.654	0.217	SC	RPA
1.102	1.654	0.236	TC	R2
1.102	1.654	0.276	SA2	G2
1.102	1.654	0.276	SC	R2
1.102	1.654	0.276	TC	R2
1.102	1.654	0.315	TC	R2
1.102	1.654	0.394	TC	R2
1.102	1.654	0.433	TC	R2
1.102	1.673	0.315	TC	R2
1.102	1.693	0.236	TC	R2
1.102	1.693	0.276	SC	R2
1.102	1.693	0.394	SB	G4
1.102	1.693	0.394	TC	R2
1.102	1.732	0.236	TC	RPA
1.102	1.732	0.276	TC	R2
1.102	1.732	0.315	TC	R2
1.102	1.772	0.197	TC	R2
1.102	1.772	0.236	SC	R2
1.102	1.772	0.276	TC	R2
1.102	1.772	0.315	SC	R2
1.102	1.772	0.315	SC	R2
1.102	1.772	0.315	TC	R2
1.102	1.772	0.343	TC	R2
1.102	1.772	0.394	TC	R2
1.102	1.811	0.276	TC	R2
1.102	1.850	0.157	VC	R2
1.102	1.850	0.197	SC	R2
1.102	1.850	0.197	TC	R2
1.102	1.850	0.236	TC	R2
1.102	1.850	0.276	SC	R2
1.102	1.850	0.276	TC	R2
1.102	1.850	0.315	DC	R2
1.102	1.850	0.315	TA2	C2
1.102	1.850	0.315	TC	R2
1.102	1.850	0.354	TC	R2
1.102	1.850	0.394	DB	GV
1.102	1.850	0.394	SB2	G2
1.102	1.850	0.394	SC	R2
1.102	1.850	0.394	TC	R2
1.102	1.870	0.394	TA2	PPA
1.102	1.870	0.394	TB2	P3
1.102	1.890	0.276	TC	R2
1.102	1.890	0.315	TC	R2
1.102	1.890	0.394	TC	R2
1.102	1.890	0.433	SB2	G2
1.102	1.890	0.433	TB2	G2
1.102	1.890	0.433	TBR	C2
1.102	1.890	0.433	TC	R2
1.102	1.921	0.315	TB	G2
1.102	1.969	0.197	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.102	1.969	0.236	SC	R2
1.102	1.969	0.236	VB2	G2
1.102	1.969	0.276	TC	R2
1.102	1.969	0.315	SC	R2
1.102	1.969	0.315	TC	R2
1.102	1.969	0.394	TC	R2
1.102	2.008	0.315	TC	R3
1.102	2.008	0.394	TC	R2
1.102	2.047	0.197	SC	R2
1.102	2.047	0.236	TC	R2
1.102	2.047	0.276	SC	R2
1.102	2.047	0.276	TC	R2
1.102	2.047	0.315	TC	R2
1.102	2.047	0.394	SC	R2
1.102	2.047	0.394	TC	R2
1.102	2.126	0.394	TC	R2
1.102	2.126	0.472	SA2	C2
1.102	2.165	0.315	TC	R2
1.102	2.165	0.394	TC	R2
1.102	2.205	0.236	TC	R2
1.102	2.205	0.276	TC	R2
1.102	2.205	0.315	DC	R2
1.102	2.205	0.315	TC	R2
1.102	2.244	0.276	TC	R2
1.102	2.283	0.236	TC	R2
1.102	2.283	0.394	TC	R2
1.102	2.441	0.394	SC	R2
1.102	2.441	0.394	TC	R2
1.102	2.835	0.394	SC	R2
1.107	1.576	0.276	SC	R2
1.109	1.367	0.138	WPC	R4
1.110	1.500	0.197	SC	RPA
1.122	1.555	0.374	TC	R2
1.122	2.047	0.197	TC	R2
1.122	2.244	0.197	TC	R2
1.125	1.375	0.126	VB	G2
1.125	1.375	0.126	VB	G2
1.125	1.375	0.126	VB	G2
1.125	1.375	0.126	VC	R2
1.125	1.375	0.126	WPB	G4
1.125	1.375	0.189	KC	R2
1.125	1.437	0.205	VB	G2
1.125	1.438	0.217	VBR	G2
1.125	1.499	0.189	SB	P2
1.125	1.499	0.189	VB	P2
1.125	1.499	0.252	TC	R2
1.125	1.500	0.189	SC	R2
1.125	1.500	0.189	VBR	G2
1.125	1.500	0.189	VBR	P2
1.125	1.500	0.189	WPB	G4
1.125	1.500	0.252	KB	G2
1.125	1.500	0.252	KC	R2
1.125	1.500	0.252	SC	RPA
1.125	1.500	0.252	SC	R2

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Shaft	Bore	Width	Lip Style	Material
1.125	1.500	0.252	TC	R2
1.125	1.500	0.252	VB	P2
1.125	1.561	0.252	VC	R2
1.125	1.561	0.252	WPB	G4
1.125	1.562	0.189	WPC	R4
1.125	1.562	0.252	SC	R2
1.125	1.563	0.252	SB	G2
1.125	1.563	0.252	VB2	G2
1.125	1.563	0.280	SC	R2
1.125	1.563	0.374	SA2	P2
1.125	1.563	0.374	SC	R2
1.125	1.624	0.252	TB2	P2
1.125	1.624	0.311	TA2	C2
1.125	1.625	0.189	SB2	C2
1.125	1.625	0.189	WPB	G4
1.125	1.625	0.220	KC	R2
1.125	1.625	0.252	KB2	G2
1.125	1.625	0.252	SB	G2
1.125	1.625	0.252	SB2	P2
1.125	1.625	0.252	SC	R2
1.125	1.625	0.252	TB2	G2
1.125	1.625	0.252	TC	R2
1.125	1.625	0.252	WPB	G4
1.125	1.625	0.311	SB	C2
1.125	1.625	0.311	SC	R2
1.125	1.625	0.374	SB	G2
1.125	1.625	0.374	SC	R2
1.125	1.625	0.374	TC	R2
1.125	1.661	0.311	SB	G2
1.125	1.687	0.311	TC	R2
1.125	1.750	0.252	SB	G2
1.125	1.750	0.374	DB	G2
1.125	1.750	0.374	SC	R2
1.125	1.752	0.252	TB2	P2
1.125	1.752	0.252	TC	R2
1.125	1.752	0.437	SB2	P2
1.125	1.752	0.437	TB	G2
1.125	1.778	0.406	KC	R2
1.125	1.780	0.252	TC	R2
1.125	1.781	0.311	TC	R2
1.125	1.781	0.406	TC	R2
1.125	1.781	0.500	TC	R2
1.125	1.813	0.252	SC	R2
1.125	1.819	0.268	TC	R2
1.125	1.828	0.252	TB	G2
1.125	1.850	0.311	SC	R2
1.125	1.850	0.437	SB2	C2
1.125	1.851	0.311	TC	R2
1.125	1.874	0.252	SB2	P2
1.125	1.874	0.252	TB2	PV
1.125	1.874	0.437	TB2	P2
1.125	1.875	0.252	SC	R2
1.125	1.875	0.252	TB2	G2
1.125	1.875	0.252	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.125	1.875	0.374	SB2	C2
1.125	1.875	0.374	SC	R2
1.125	1.875	0.374	TC	R2
1.125	1.937	0.189	VC	R2
1.125	1.937	0.343	KB2	P2
1.125	1.937	0.374	VC	R2
1.125	1.983	0.252	TB2	P2
1.125	2.000	0.252	TB2	G2
1.125	2.000	0.252	TC	R2
1.125	2.000	0.374	SB2	G2
1.125	2.000	0.374	SC	R2
1.125	2.000	0.374	TB2	G2
1.125	2.000	0.374	TB2	P2
1.125	2.000	0.406	TA2	C2
1.125	2.000	0.437	TB2	P2
1.125	2.047	0.311	TC	R2
1.125	2.063	0.252	TB2	P2
1.125	2.063	0.374	SB2	C2
1.125	2.067	0.335	SC	R2
1.125	2.125	0.252	SB2	P2
1.125	2.125	0.311	SB2	G2
1.125	2.125	0.311	TC	R2
1.125	2.250	0.500	SC	R2
1.125	2.437	0.437	TC	R2
1.125	2.440	0.374	TC	R2
1.125	2.441	0.252	TC	R2
1.125	2.441	0.311	TC	R2
1.125	2.441	0.374	TB2	P2
1.125	2.835	0.374	SC	R2
1.125	2.835	0.374	TB2	P2
1.125	2.844	0.374	SC	R2
1.125	2.875	0.374	TC	R2
1.126	1.575	0.197	SB	C2
1.126	1.575	0.315	TC	R2
1.126	1.693	0.256	TB	G2
1.126	1.831	0.437	TC	R2
1.126	2.063	0.437	SA2	G2
1.126	2.063	0.437	TB2	P2
1.142	1.378	0.173	KC	R2
1.142	1.417	0.276	TB	G2
1.142	1.417	0.276	TC	R2
1.142	1.417	0.315	TC	R2
1.142	1.417	0.315	VB	G2
1.142	1.496	0.157	TC	R2
1.142	1.496	0.157	VB	G2
1.142	1.500	0.236	WPC	R4
1.142	1.575	0.276	SC	R2
1.142	1.575	0.276	TC	R2
1.142	1.614	0.197	SC	R2
1.142	1.614	0.276	TB	G3
1.142	1.654	0.236	TC	R2
1.142	1.654	0.276	TC	R2
1.142	1.693	0.315	TC	R2
1.142	1.732	0.276	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.142	1.772	0.315	TB2	G2
1.142	1.772	0.354	TC	R2
1.142	1.772	0.394	SB2	C2
1.142	1.811	0.276	TC	R2
1.142	1.811	0.394	TC	R2
1.142	1.850	0.276	TC	R2
1.142	1.850	0.315	TC	R2
1.142	1.850	0.394	TC	R2
1.142	1.890	0.394	TC	R2
1.142	1.969	0.394	SC	R2
1.142	1.969	0.394	TA2	G2
1.142	1.969	0.394	TC	R2
1.142	2.047	0.276	TC	R2
1.142	2.047	0.394	TA2	G2
1.142	2.047	0.433	TC	RPA
1.142	2.205	0.394	TC	R2
1.142	2.362	0.276	TC	R2
1.142	2.449	0.354	TC	R2
1.146	1.980	0.252	TC	R2
1.156	1.575	0.311	TC	R2
1.156	1.828	0.374	SA2	G2
1.156	1.874	0.157	SA2	C2
1.156	1.874	0.252	SA2	P2
1.156	1.875	0.252	TB2	P2
1.156	1.984	0.252	TB2	P2
1.156	2.000	0.252	TC	R2
1.156	2.000	0.311	TB2	PPA
1.156	2.250	0.500	SA2	PS
1.156	2.441	0.374	TC	R2
1.157	1.752	0.311	TB	GPA
1.157	1.752	0.311	TB2	PPA
1.157	1.874	0.252	SB2	P2
1.157	1.874	0.252	SB2	P2
1.170	2.031	0.374	SA2	P2
1.175	1.828	0.374	SB2	G2
1.179	1.315	0.126	VB	C2
1.180	1.680	0.252	SC	R2
1.181	1.378	0.118	VB	G2
1.181	1.417	0.098	VB	G2
1.181	1.457	0.157	KB	C2
1.181	1.457	0.157	KC	R2
1.181	1.457	0.157	SC	R2
1.181	1.457	0.157	VB	G2
1.181	1.457	0.157	VC	R2
1.181	1.457	0.197	VB	G2
1.181	1.457	0.236	TC	R2
1.181	1.457	0.256	TB	G2
1.181	1.457	0.276	KC	R2
1.181	1.457	0.315	SC	R2
1.181	1.457	0.315	TC	R2
1.181	1.496	0.157	VB	G2
1.181	1.496	0.197	TC	R2
1.181	1.496	0.236	TC	R2
1.181	1.496	0.276	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.181	1.496	0.315	TC	R2
1.181	1.496	0.394	TC	R2
1.181	1.575	0.157	SC	R2
1.181	1.575	0.157	VB	G2
1.181	1.575	0.157	WPB	G4
1.181	1.575	0.197	SC	R2
1.181	1.575	0.197	TC	R2
1.181	1.575	0.236	TC	R2
1.181	1.575	0.276	SB	GV
1.181	1.575	0.276	SC	RS
1.181	1.575	0.276	SC	R2
1.181	1.575	0.276	TB	P2
1.181	1.575	0.276	TC	RV
1.181	1.575	0.276	TC	R2
1.181	1.575	0.276	VC	R2
1.181	1.575	0.315	SB	G2
1.181	1.575	0.315	SC	R2
1.181	1.575	0.315	TC	R2
1.181	1.575	0.394	DC	R2
1.181	1.575	0.394	SC	R2
1.181	1.575	0.394	TB	G2
1.181	1.575	0.394	TC	R2
1.181	1.575	0.472	TC	R2
1.181	1.594	0.264	TC	R2
1.181	1.614	0.276	SC	RV
1.181	1.614	0.276	TBR	G2
1.181	1.614	0.276	TC	R2
1.181	1.614	0.394	TC	R2
1.181	1.654	0.157	VB	G2
1.181	1.654	0.177	SC	R2
1.181	1.654	0.177	TC	R2
1.181	1.654	0.197	VC	R2
1.181	1.654	0.236	SB	G2
1.181	1.654	0.236	SC	R2
1.181	1.654	0.236	TB2	G2
1.181	1.654	0.252	VC	R2
1.181	1.654	0.276	DC	R2
1.181	1.654	0.276	KC	R2
1.181	1.654	0.276	SB2	C2
1.181	1.654	0.276	SBR	CPA
1.181	1.654	0.276	SC	RV
1.181	1.654	0.276	SC	R2
1.181	1.654	0.276	SC	R2
1.181	1.654	0.276	SC	R2
1.181	1.654	0.276	TB	G2
1.181	1.654	0.276	TC	R2
1.181	1.654	0.276	TC	R2
1.181	1.654	0.315	SC	R2
1.181	1.654	0.315	TC	R2
1.181	1.654	0.394	TC	R2
1.181	1.687	0.252	TB	G2
1.181	1.693	0.276	TC	R2
1.181	1.693	0.315	SB2	C2
1.181	1.693	0.315	TC	R2
1.181	1.693	0.335	TC	R2

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Shaft	Bore	Width	Lip Style	Material
1.181	1.693	0.354	TC	R2
1.181	1.732	0.197	TC	R2
1.181	1.732	0.276	TBR	G2
1.181	1.732	0.276	TC	R2
1.181	1.732	0.315	TC	R2
1.181	1.732	0.354	SB	G2
1.181	1.732	0.354	SC	R2
1.181	1.732	0.354	TC	R2
1.181	1.732	0.394	SC	R2
1.181	1.732	0.394	TC	R2
1.181	1.752	0.276	TC	R2
1.181	1.772	0.157	VB	G2
1.181	1.772	0.197	SC	R2
1.181	1.772	0.236	SC	R2
1.181	1.772	0.236	TB2	G2
1.181	1.772	0.236	TC	R2
1.181	1.772	0.236	VB	G2
1.181	1.772	0.276	SB2	G2
1.181	1.772	0.276	SC	R2
1.181	1.772	0.276	TC	R2
1.181	1.772	0.315	SB2	C2
1.181	1.772	0.315	SC	R2
1.181	1.772	0.315	SC	R2
1.181	1.772	0.315	TB2	G2
1.181	1.772	0.315	TC	R2
1.181	1.772	0.354	TC	R2
1.181	1.772	0.394	SC	R2
1.181	1.772	0.394	TC	R2
1.181	1.772	0.472	TC	R2
1.181	1.772	0.512	TC	R2
1.181	1.811	0.276	TC	R2
1.181	1.811	0.315	SC	R2
1.181	1.811	0.315	TC	R2
1.181	1.811	0.394	TC	R2
1.181	1.850	0.197	SC	R2
1.181	1.850	0.197	TC	R2
1.181	1.850	0.236	SC	R2
1.181	1.850	0.236	TC	R2
1.181	1.850	0.236	VBR	P2
1.181	1.850	0.256	SB2	GV
1.181	1.850	0.276	SC	RV
1.181	1.850	0.276	SC	R2
1.181	1.850	0.276	TB	G2
1.181	1.850	0.276	TC	RV
1.181	1.850	0.276	TC	RV
1.181	1.850	0.276	TC	R2
1.181	1.850	0.315	SB2	G2
1.181	1.850	0.315	SC	R2
1.181	1.850	0.315	TC	R2
1.181	1.850	0.394	DC	RV
1.181	1.850	0.394	SA2	G2
1.181	1.850	0.394	SC	RV
1.181	1.850	0.394	SC	R2
1.181	1.850	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.181	1.870	0.394	TB2	P3
1.181	1.873	0.252	VBR	C2
1.181	1.890	0.276	SC	RV
1.181	1.890	0.276	TBR	G2
1.181	1.890	0.276	TC	R2
1.181	1.890	0.315	SC	R2
1.181	1.890	0.315	TC	R2
1.181	1.890	0.394	TC	R2
1.181	1.890	0.472	TC	R2
1.181	1.909	0.315	TC	R2
1.181	1.929	0.315	TC	R2
1.181	1.969	0.197	SC	R2
1.181	1.969	0.236	TC	R2
1.181	1.969	0.276	SC	R2
1.181	1.969	0.276	TC	R2
1.181	1.969	0.315	SC	R2
1.181	1.969	0.315	SC	R2
1.181	1.969	0.315	TC	R2
1.181	1.969	0.394	DC	R2
1.181	1.969	0.394	SC	R2
1.181	1.969	0.394	TC	R2
1.181	1.969	0.433	SB2	G2
1.181	1.969	0.433	SC	R2
1.181	1.969	0.433	TB2	G2
1.181	1.969	0.433	TC	R2
1.181	1.969	0.433	TC	R2
1.181	1.969	0.472	SB2	G2
1.181	1.969	0.472	TC	R2
1.181	1.992	0.394	SC	R2
1.181	2.008	0.394	TC	R2
1.181	2.047	0.157	SC	R2
1.181	2.047	0.197	VC	R2
1.181	2.047	0.236	SC	R2
1.181	2.047	0.276	SB2	G2
1.181	2.047	0.276	SC	R2
1.181	2.047	0.276	TB2	G2
1.181	2.047	0.276	TC	R2
1.181	2.047	0.315	SB2	P2
1.181	2.047	0.315	SC	R2
1.181	2.047	0.315	TC	R2
1.181	2.047	0.354	SA2	G2
1.181	2.047	0.394	SC	R2
1.181	2.047	0.394	TB2	G2
1.181	2.047	0.394	TC	R2
1.181	2.047	0.433	TC	R2
1.181	2.047	0.472	TC	R2
1.181	2.126	0.236	TC	R2
1.181	2.126	0.354	TC	R2
1.181	2.165	0.276	SC	R2
1.181	2.165	0.276	TB2	G2
1.181	2.165	0.276	TC	R2
1.181	2.165	0.315	TB2	G2
1.181	2.165	0.315	TC	R2
1.181	2.165	0.394	SC	R2



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Shaft	Bore	Width	Lip Style	Material
1.181	2.165	0.394	TC	R2
1.181	2.165	0.433	TC	R2
1.181	2.165	0.472	SB2	G2
1.181	2.165	0.472	TC	R2
1.181	2.205	0.315	TC	R2
1.181	2.205	0.394	SC	R2
1.181	2.205	0.394	TC	R2
1.181	2.205	0.472	SC	R2
1.181	2.205	0.472	TC	R2
1.181	2.244	0.394	TC	R2
1.181	2.283	0.315	TC	R2
1.181	2.283	0.394	TC	R2
1.181	2.362	0.276	TC	R2
1.181	2.362	0.315	TB2	G2
1.181	2.362	0.315	TC	R2
1.181	2.362	0.394	SC	R2
1.181	2.362	0.394	TC	R2
1.181	2.362	0.472	TC	R2
1.181	2.441	0.157	TC	R2
1.181	2.441	0.197	TC	R2
1.181	2.441	0.236	TB2	G2
1.181	2.441	0.236	VC	R2
1.181	2.441	0.276	DC	R2
1.181	2.441	0.276	SC	R2
1.181	2.441	0.276	TC	R2
1.181	2.441	0.315	TC	R2
1.181	2.441	0.354	TC	R2
1.181	2.441	0.394	SB2	G2
1.181	2.441	0.394	SC	R2
1.181	2.441	0.394	TC	R2
1.181	2.441	0.433	TC	R2
1.181	2.441	0.472	SC	R2
1.181	2.441	0.472	TC	R2
1.181	2.559	0.394	TC	R2
1.181	2.677	0.236	TC	R2
1.181	2.677	0.394	TC	R2
1.181	2.677	0.472	TC	R2
1.181	2.756	0.394	TC	R2
1.181	2.835	0.236	SC	R2
1.181	2.835	0.276	TC	R2
1.181	2.835	0.315	TC	R2
1.181	2.835	0.354	TC	R2
1.181	2.835	0.394	SA2	G2
1.181	2.835	0.394	SC	R2
1.181	2.835	0.394	TC	R2
1.181	2.953	0.354	TC	R2
1.181	2.953	0.394	TC	R2
1.181	3.031	0.354	TC	R2
1.181	3.031	0.394	TC	R2
1.181	3.150	0.394	TC	R2
1.181	3.543	0.276	TC	R2
1.183	1.831	0.252	SB2	P2
1.187	1.563	0.189	WPB	G4
1.187	1.618	0.354	DB	C2

Shaft	Bore	Width	Lip Style	Material
1.187	1.665	0.303	SBR	C2
1.187	1.686	0.252	SBR	GPA
1.187	1.686	0.374	SB	P2
1.187	1.687	0.252	SB	P2
1.187	1.687	0.311	SB2	GV
1.187	1.687	0.311	SBR	C2
1.187	1.687	0.311	TBR	C2
1.187	1.687	0.374	SB	G2
1.187	1.687	0.374	SC	R2
1.187	1.687	0.374	TB	G2
1.187	1.690	0.311	TBR	C2
1.187	1.691	0.252	SB2	G2
1.187	1.700	0.252	TB	G2
1.187	1.713	0.500	TBR	C2
1.187	1.750	0.189	SC	R2
1.187	1.750	0.252	SC	R2
1.187	1.750	0.437	DC	R2
1.187	1.750	0.437	SC	R2
1.187	1.752	0.252	TB2	P2
1.187	1.828	0.374	TB2	P2
1.187	1.875	0.252	SB2	P2
1.187	1.875	0.252	SBR	GPA
1.187	1.983	0.252	TB2	C2
1.187	1.983	0.252	TC	R2
1.187	1.983	0.374	TB2	P2
1.187	2.000	0.252	SB2	P2
1.187	2.000	0.252	SC	R2
1.187	2.000	0.252	TB2	C2
1.187	2.000	0.437	TB2	C2
1.187	2.063	0.252	SB2	P2
1.187	2.063	0.252	TB2	P2
1.187	2.250	0.500	TA2	G2
1.187	2.437	0.465	TA2	P2
1.187	2.441	0.374	TB2	P2
1.187	2.441	0.374	TC	R2
1.188	1.627	0.252	WPB	G4
1.201	1.575	0.079	VC	R2
1.201	1.752	0.252	TB2	P2
1.201	2.047	0.315	TC	R2
1.218	1.969	0.469	VB2	G2
1.218	2.000	0.437	SC	R2
1.219	1.979	0.252	VB2	P2
1.219	1.979	0.406	KB2	G2
1.219	1.982	0.354	TB2	G2
1.219	1.983	0.437	SA2	P2
1.219	2.125	0.689	DA2	G2
1.220	1.457	0.118	VB	G2
1.220	1.654	0.315	SC	R2
1.220	1.654	0.315	TC	R2
1.220	1.693	0.220	SC	R2
1.220	1.740	0.315	SC	R2
1.220	1.756	0.236	SC	R2
1.220	1.772	0.236	SC	R2
1.220	1.772	0.276	SC	R2

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Shaft	Bore	Width	Lip Style	Material
1.220	1.772	0.276	TC	R2
1.220	1.850	0.276	SC	R2
1.220	1.850	0.394	TC	R2
1.220	1.929	0.276	TC	R2
1.220	1.969	0.276	TC	R2
1.220	1.969	0.315	SC	R2
1.220	1.969	0.315	TC	R2
1.220	2.047	0.236	TC	R2
1.220	2.047	0.276	TC	R2
1.220	2.047	0.276	VB2	C2
1.220	2.283	0.315	DC	R2
1.220	2.461	0.169	SC	R2
1.247	1.688	0.311	SBR	C2
1.250	1.499	0.126	VB	G2
1.250	1.499	0.157	VC	R2
1.250	1.500	0.126	KB	P2
1.250	1.500	0.126	VB	C2
1.250	1.500	0.126	WPB	G4
1.250	1.500	0.157	WPB	G4
1.250	1.500	0.189	TC	R2
1.250	1.575	0.236	TC	R2
1.250	1.575	0.276	TC	R2
1.250	1.600	0.126	SC	R2
1.250	1.618	0.252	TC	R2
1.250	1.625	0.189	DC	R2
1.250	1.625	0.189	SB	P2
1.250	1.625	0.189	VB	P2
1.250	1.625	0.252	WPB	G4
1.250	1.686	0.189	VB2	P2
1.250	1.686	0.252	SC	R2
1.250	1.686	0.469	DC	R2
1.250	1.687	0.126	WPB	G4
1.250	1.687	0.189	WPB	G4
1.250	1.687	0.189	WPB	G4
1.250	1.687	0.252	SB	G2
1.250	1.687	0.252	TB	P2
1.250	1.687	0.252	TC	R2
1.250	1.687	0.311	SB	G2
1.250	1.687	0.311	TB2	C2
1.250	1.687	0.311	TC	R2
1.250	1.687	0.311	TC	R2
1.250	1.690	0.189	WPB	G4
1.250	1.690	0.224	KC	V3
1.250	1.693	0.252	TC	R2
1.250	1.700	0.252	SC	R2
1.250	1.700	0.252	WPC	R4
1.250	1.750	0.252	SB2	P2
1.250	1.750	0.252	SBR	C2
1.250	1.750	0.252	SC	R2
1.250	1.750	0.252	TC	R2
1.250	1.750	0.311	WPB	G4
1.250	1.750	0.374	DB	CH
1.250	1.750	0.374	SB	GV
1.250	1.750	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.250	1.752	0.252	SB2	P2
1.250	1.752	0.252	TB2	PV
1.250	1.752	0.252	TB2	P2
1.250	1.752	0.252	VB2	G2
1.250	1.752	0.252	VB2	C2
1.250	1.752	0.252	WPB	G4
1.250	1.752	0.311	TA2	GV
1.250	1.752	0.311	TB2	G2
1.250	1.752	0.437	SA2	PPA
1.250	1.772	0.276	WPC	R4
1.250	1.813	0.374	TC	R2
1.250	1.828	0.374	TC	R2
1.250	1.874	0.252	WPB	G4
1.250	1.875	0.252	SB2	P2
1.250	1.875	0.252	SC	R2
1.250	1.875	0.252	TB2	C2
1.250	1.875	0.252	TC	R2
1.250	1.875	0.311	SC	R2
1.250	1.875	0.437	TB2	G2
1.250	1.937	0.252	SB2	P2
1.250	1.937	0.437	SC	R2
1.250	1.941	0.441	TC	R2
1.250	1.979	0.252	KB2	C2
1.250	1.979	0.252	TB2	C2
1.250	1.979	0.252	VB2	G2
1.250	1.980	0.366	TB2	P2
1.250	1.983	0.252	TB2	C2
1.250	1.983	0.252	VA2	C2
1.250	1.983	0.438	TB2	P2
1.250	2.000	0.252	SB2	G2
1.250	2.000	0.252	TB2	C2
1.250	2.000	0.252	TC	R2
1.250	2.000	0.252	VB2	G2
1.250	2.000	0.311	SC	R2
1.250	2.000	0.311	TC	R2
1.250	2.000	0.374	SA2	G2
1.250	2.000	0.374	SA2	PS
1.250	2.000	0.374	SB2	C2
1.250	2.000	0.374	SC	R2
1.250	2.000	0.390	DC	R2
1.250	2.000	0.437	TA2	G2
1.250	2.000	0.437	TA2	P2
1.250	2.000	0.437	TB2	G2
1.250	2.000	0.437	TB2	GV
1.250	2.000	0.437	TC	R2
1.250	2.000	0.500	SC	R2
1.250	2.000	0.500	TC	R2
1.250	2.061	0.252	SB2	P2
1.250	2.061	0.252	SB2	P2
1.250	2.063	0.252	SC	R2
1.250	2.063	0.252	TB2	P2
1.250	2.063	0.252	TC	R2
1.250	2.063	0.374	SB2	P2
1.250	2.063	0.437	TA2	P2



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Shaft	Bore	Width	Lip Style	Material
1.250	2.065	0.252	SB2	P2
1.250	2.125	0.252	SB2	P2
1.250	2.125	0.252	TB2	GV
1.250	2.125	0.374	SB2	P2
1.250	2.125	0.374	TB2	P2
1.250	2.240	0.252	TC	R2
1.250	2.250	0.252	SB2	P2
1.250	2.250	0.252	TB2	P2
1.250	2.250	0.252	VB	P2
1.250	2.250	0.252	VB2	P2
1.250	2.250	0.374	TC	R2
1.250	2.250	0.500	TC	R2
1.250	2.251	0.374	SB2	P2
1.250	2.252	0.374	TB2	P2
1.250	2.313	0.374	VC	R2
1.250	2.328	0.437	TB2	G2
1.250	2.328	0.437	TC	R2
1.250	2.328	0.469	TB2	P2
1.250	2.375	0.374	SC	R2
1.250	2.437	0.252	SA2	C2
1.250	2.437	0.252	SB2	G2
1.250	2.437	0.311	SC	R2
1.250	2.437	0.311	TB2	P2
1.250	2.437	0.350	SB2	G2
1.250	2.437	0.374	TB2	P2
1.250	2.437	0.374	TC	R2
1.250	2.440	0.311	TC	R2
1.250	2.441	0.252	TC	R2
1.250	2.441	0.276	TC	R2
1.250	2.441	0.374	TB2	G2
1.250	2.441	0.374	TC	R2
1.250	2.500	0.374	SC	R2
1.250	2.502	0.374	TB2	P2
1.250	2.502	0.500	TB2	PV
1.250	2.561	0.500	SA2	P2
1.250	2.686	0.374	SA2	P2
1.250	2.835	0.374	TC	R2
1.252	1.575	0.315	TC	R2
1.260	1.535	0.236	TB	G2
1.260	1.535	0.315	TB	G2
1.260	1.575	0.197	VC	R2
1.260	1.575	0.276	SC	R2
1.260	1.575	0.276	TC	R2
1.260	1.575	0.394	TC	R2
1.260	1.614	0.276	TC	R2
1.260	1.654	0.157	VB	G2
1.260	1.654	0.157	VC	R2
1.260	1.654	0.197	KC	R2
1.260	1.654	0.236	TC	R2
1.260	1.654	0.276	SC	R2
1.260	1.654	0.276	TB	G2
1.260	1.654	0.276	TC	R2
1.260	1.654	0.315	TC	R2
1.260	1.654	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.260	1.693	0.276	TC	R2
1.260	1.693	0.394	SB	G2
1.260	1.693	0.394	TC	R2
1.260	1.732	0.157	VC	R2
1.260	1.732	0.197	TC	R2
1.260	1.732	0.236	TC	R2
1.260	1.732	0.276	TC	R2
1.260	1.732	0.315	DC	R2
1.260	1.732	0.315	TC	R2
1.260	1.732	0.315	TC	R2
1.260	1.732	0.354	SB	G2
1.260	1.732	0.354	TC	R2
1.260	1.732	0.394	SC	R2
1.260	1.732	0.394	TC	R2
1.260	1.752	0.315	TC	R2
1.260	1.752	0.394	TC	R2
1.260	1.772	0.157	VB	G2
1.260	1.772	0.157	WPC	R4
1.260	1.772	0.197	SC	R2
1.260	1.772	0.197	VB2	G2
1.260	1.772	0.236	SC	R2
1.260	1.772	0.236	TC	R2
1.260	1.772	0.256	TC	R2
1.260	1.772	0.276	SC	R2
1.260	1.772	0.276	TB2	G2
1.260	1.772	0.276	TBR	G2
1.260	1.772	0.276	TC	R2
1.260	1.772	0.315	DC	R2
1.260	1.772	0.315	TC	R2
1.260	1.772	0.394	SC	R2
1.260	1.772	0.394	TC	R2
1.260	1.780	0.276	SC	R2
1.260	1.811	0.236	TC	R2
1.260	1.811	0.264	TBR	GV
1.260	1.811	0.276	SC	R2
1.260	1.811	0.276	TC	R2
1.260	1.811	0.315	SB2	G2
1.260	1.811	0.315	TBR	G2
1.260	1.811	0.315	TC	R2
1.260	1.850	0.236	TC	R2
1.260	1.850	0.276	SC	R2
1.260	1.850	0.276	TB2	G2
1.260	1.850	0.276	TC	R2
1.260	1.850	0.276	TC	R2
1.260	1.850	0.315	TC	R2
1.260	1.850	0.394	TB	G2
1.260	1.850	0.394	TC	R2
1.260	1.850	0.472	DC	RV
1.260	1.890	0.276	TC	R2
1.260	1.890	0.315	SB2	G2
1.260	1.890	0.315	SC	RV
1.260	1.890	0.315	TC	R2
1.260	1.890	0.394	TC	R2
1.260	1.969	0.276	TB2	G2
1.260	1.969	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
1.260	1.969	0.315	SB	G2
1.260	1.969	0.315	SC	R2
1.260	1.969	0.315	TC	R2
1.260	1.969	0.394	TC	R2
1.260	1.969	0.433	TC	R2
1.260	2.008	0.315	TB2	P3
1.260	2.047	0.197	SC	R2
1.260	2.047	0.197	TC	R2
1.260	2.047	0.197	VC	R2
1.260	2.047	0.276	DB2	G2
1.260	2.047	0.276	DC	R2
1.260	2.047	0.276	SC	R2
1.260	2.047	0.276	TB2	G2
1.260	2.047	0.276	TC	R2
1.260	2.047	0.315	TC	R2
1.260	2.047	0.354	TC	R2
1.260	2.047	0.374	KB2	G2
1.260	2.047	0.394	SC	R2
1.260	2.047	0.394	TB2	G2
1.260	2.047	0.394	TC	R2
1.260	2.047	0.433	TB2	G2
1.260	2.047	0.433	TC	R2
1.260	2.047	0.472	TC	R2
1.260	2.087	0.276	TC	R2
1.260	2.126	0.276	TC	R2
1.260	2.126	0.315	TC	R2
1.260	2.126	0.394	TC	R2
1.260	2.165	0.256	TC	R2
1.260	2.165	0.276	TC	R2
1.260	2.165	0.315	TC	R2
1.260	2.165	0.354	TC	R2
1.260	2.165	0.394	TC	R2
1.260	2.165	0.433	TC	R2
1.260	2.165	0.591	TC	R2
1.260	2.205	0.315	TC	R2
1.260	2.205	0.394	TB2	C2
1.260	2.205	0.394	TC	R2
1.260	2.205	0.472	TC	R2
1.260	2.244	0.276	TC	RV
1.260	2.283	0.315	TC	R2
1.260	2.283	0.394	TC	R2
1.260	2.283	0.472	TB2	G2
1.260	2.283	0.472	TC	R2
1.260	2.362	0.315	TC	R2
1.260	2.362	0.394	TA2	G2
1.260	2.362	0.394	TC	R2
1.260	2.441	0.236	SC	R2
1.260	2.441	0.276	TC	R2
1.260	2.441	0.315	TC	R2
1.260	2.441	0.394	TC	R2
1.260	2.441	0.472	TC	R2
1.260	2.559	0.295	TC	R2
1.260	2.559	0.315	TC	R2
1.260	2.559	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.260	2.559	0.472	TB2	G2
1.260	2.677	0.315	TC	R2
1.260	2.756	0.315	TC	R2
1.260	2.756	0.394	TC	R2
1.260	2.756	0.433	TC	R2
1.260	2.835	0.276	TB2	P2
1.260	2.835	0.315	TC	R2
1.260	2.835	0.394	SC	R2
1.260	2.835	0.394	TC	R2
1.260	2.874	0.394	TC	R3
1.260	3.150	0.472	TC	RV
1.280	1.693	0.276	TC	R2
1.281	1.827	0.374	SBR	G2
1.281	1.937	0.500	TC	R2
1.281	2.000	0.350	SB	G2
1.281	2.000	0.354	SB	G2
1.281	2.000	0.374	TB2	G2
1.281	2.000	0.374	TB2	P2
1.281	2.025	0.374	SB2	G2
1.287	2.000	0.343	SB	C2
1.299	1.535	0.157	KC	R2
1.299	1.654	0.276	KC	P2
1.299	1.693	0.276	TC	R2
1.299	1.732	0.276	TB	G2
1.299	1.732	0.276	TC	R2
1.299	1.732	0.315	TB	G2
1.299	1.732	0.315	TBR	C2
1.299	1.732	0.315	TC	R2
1.299	1.772	0.276	SC	R2
1.299	1.772	0.315	DC	R2
1.299	1.772	0.315	TC	R2
1.299	1.772	0.394	TC	R2
1.299	1.811	0.276	TC	R2
1.299	1.850	0.315	TC	R2
1.299	1.862	0.276	TC	R2
1.299	1.890	0.236	TC	R2
1.299	1.890	0.315	TC	R2
1.299	1.969	0.236	SC	R2
1.299	1.969	0.236	TC	R2
1.299	1.969	0.276	TC	R2
1.299	1.969	0.315	TB2	G2
1.299	1.969	0.394	SC	R2
1.299	1.969	0.394	TC	R2
1.299	2.047	0.197	TC	R2
1.299	2.047	0.236	SC	R2
1.299	2.047	0.315	SC	RPA
1.299	2.047	0.394	TC	R2
1.299	2.126	0.256	SC	R2
1.299	2.165	0.374	TB2	G2
1.299	2.165	0.394	TC	R2
1.299	2.205	0.394	TC	R2
1.299	2.205	0.472	TC	R2
1.299	2.441	0.276	TC	R2
1.299	2.441	0.472	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.299	2.559	0.315	TC	R2
1.299	2.598	0.472	SC	R2
1.299	2.835	0.394	TC	R2
1.301	2.000	0.437	TB2	GPA
1.310	1.983	0.252	TB2	P2
1.311	1.562	0.126	VBR	CV
1.311	1.562	0.126	VBR	CV
1.311	1.812	0.161	WPC	R4
1.311	1.850	0.146	VB2	G2
1.313	1.563	0.126	WPB	G4
1.313	1.813	0.339	TC	R2
1.313	1.828	0.374	SBR	G2
1.313	1.837	0.189	SC	R2
1.313	1.850	0.500	TA2	PV
1.313	1.875	0.252	SC	R2
1.313	1.890	0.252	SB	C2
1.313	1.937	0.189	SC	R2
1.313	1.937	0.374	TC	R2
1.313	1.983	0.374	TB2	G2
1.313	2.000	0.311	TC	R2
1.313	2.000	0.374	SC	R2
1.313	2.063	0.252	VB	G2
1.313	2.063	0.252	VC	R2
1.313	2.063	0.311	TB2	P2
1.313	2.063	0.311	TB2	P2
1.313	2.125	0.374	SC	R2
1.313	2.171	0.374	TB2	G2
1.313	2.250	0.311	TB2	P2
1.313	2.250	0.374	SC	R2
1.313	2.374	0.311	TB2	P2
1.313	2.591	0.331	VBR	C2
1.313	2.734	0.311	SB2	G2
1.319	2.165	0.374	TB	G2
1.322	2.227	0.374	SB2	P2
1.326	2.061	0.374	SB2	P2
1.326	2.313	0.435	SB2	P2
1.339	1.535	0.118	VC	R2
1.339	1.575	0.197	VB	G2
1.339	1.614	0.157	KC	R2
1.339	1.614	0.157	TB	G2
1.339	1.614	0.157	VB	G2
1.339	1.614	0.157	VC	R2
1.339	1.614	0.276	TC	R2
1.339	1.654	0.197	KC	R2
1.339	1.654	0.197	TC	R2
1.339	1.732	0.197	VB	G2
1.339	1.732	0.276	TB	G2
1.339	1.732	0.276	TC	R2
1.339	1.732	0.315	TC	R2
1.339	1.772	0.236	TC	R2
1.339	1.772	0.315	TC	R2
1.339	1.811	0.315	SB2	G2
1.339	1.811	0.315	TC	R2
1.339	1.811	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.339	1.828	0.252	SC	R2
1.339	1.850	0.276	TC	R2
1.339	1.850	0.315	TC	R2
1.339	1.850	0.354	TC	R2
1.339	1.890	0.276	TC	R2
1.339	1.890	0.295	SC	RPA
1.339	1.890	0.315	SB2	P2
1.339	1.890	0.315	TB2	G2
1.339	1.890	0.315	TC	R2
1.339	1.969	0.276	TC	R2
1.339	1.969	0.315	TC	R2
1.339	1.969	0.394	TC	R2
1.339	1.969	0.472	TC	R2
1.339	2.047	0.236	TC	R2
1.339	2.047	0.276	TB2	G2
1.339	2.047	0.276	TC	R2
1.339	2.047	0.295	SC	R2
1.339	2.047	0.315	SC	R2
1.339	2.047	0.315	TC	R2
1.339	2.047	0.394	DB	G2
1.339	2.047	0.394	SB2	G2
1.339	2.047	0.394	TC	R2
1.339	2.047	0.433	TC	R2
1.339	2.087	0.315	TC	RPA
1.339	2.126	0.315	TC	R2
1.339	2.126	0.394	TC	R2
1.339	2.165	0.354	TC	R2
1.339	2.165	0.433	TC	R2
1.339	2.205	0.315	TC	R2
1.339	2.205	0.394	TC	R2
1.339	2.283	0.197	KC	R2
1.339	2.283	0.236	TC	RPA
1.339	2.283	0.394	TC	R2
1.339	2.362	0.472	TC	R2
1.339	2.441	0.236	TC	R2
1.339	2.441	0.276	TC	R2
1.339	2.441	0.315	TC	R2
1.339	2.441	0.394	SC	R2
1.339	2.441	0.394	TC	R2
1.339	2.441	0.551	TC	R2
1.339	2.559	0.354	TC	R2
1.339	2.559	0.472	TB2	C2
1.339	2.756	0.394	TC	R2
1.339	2.756	0.433	DC	R2
1.339	2.835	0.394	TC	R2
1.339	2.835	0.472	TC	R2
1.343	2.106	0.311	TA2	P2
1.358	1.654	0.157	VB2	G2
1.358	2.047	0.433	TC	R2
1.358	2.835	0.453	TC	R2
1.359	1.750	0.197	SC	RPA
1.362	2.191	0.252	SB2	P2
1.363	2.242	0.240	SC	R2
1.365	2.081	0.433	SB	P2

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Shaft	Bore	Width	Lip Style	Material
1.365	2.374	0.433	SB2	P2
1.367	2.250	0.311	SB2	G2
1.373	2.165	0.591	TC	R2
1.375	1.625	0.126	WPB	G4
1.375	1.750	0.189	SB	G2
1.375	1.750	0.189	VB	C2
1.375	1.750	0.189	WPB	G4
1.375	1.750	0.193	SB	G2
1.375	1.750	0.220	TC	R2
1.375	1.750	0.252	SC	R2
1.375	1.750	0.252	WPB	G4
1.375	1.752	0.252	TC	RV
1.375	1.813	0.252	TC	RV
1.375	1.828	0.252	TB	G2
1.375	1.828	0.252	TC	R2
1.375	1.834	0.374	TB	GV
1.375	1.851	0.252	TC	R2
1.375	1.874	0.311	TB	G2
1.375	1.874	0.374	TB	G2
1.375	1.875	0.189	VB2	C2
1.375	1.875	0.189	VB2	C2
1.375	1.875	0.252	SC	R2
1.375	1.875	0.252	TB2	P2
1.375	1.875	0.252	WPB	G4
1.375	1.875	0.311	SB2	G2
1.375	1.875	0.311	SC	RPA
1.375	1.875	0.311	TC	R2
1.375	1.875	0.374	SB	P2
1.375	1.875	0.374	TC	R2
1.375	1.937	0.236	TBR	C2
1.375	1.947	0.500	TBR	G2
1.375	1.980	0.311	TC	R2
1.375	1.983	0.311	SB2	PPA
1.375	2.000	0.252	TC	R2
1.375	2.000	0.311	SB2	G2
1.375	2.000	0.311	SC	R2
1.375	2.000	0.311	TB2	G2
1.375	2.000	0.311	TB2	P2
1.375	2.000	0.311	TC	R2
1.375	2.000	0.311	WPB	G4
1.375	2.000	0.328	SA2	G2
1.375	2.000	0.374	SC	R2
1.375	2.000	0.374	TB2	G2
1.375	2.000	0.374	TB2	P2
1.375	2.000	0.437	TC	R2
1.375	2.000	0.500	SC	R2
1.375	2.047	0.311	TB2	P2
1.375	2.063	0.311	TC	R2
1.375	2.063	0.374	SA2	G2
1.375	2.063	0.374	SB2	P2
1.375	2.063	0.374	SC	R2
1.375	2.104	0.374	SB2	P2
1.375	2.106	0.311	TB2	P2
1.375	2.125	0.311	TB2	P2

Shaft	Bore	Width	Lip Style	Material
1.375	2.125	0.311	TBR	C2
1.375	2.125	0.311	TC	R2
1.375	2.125	0.315	SB2	C2
1.375	2.125	0.315	SC	R2
1.375	2.125	0.315	TA2	P2
1.375	2.125	0.374	SB2	P2
1.375	2.125	0.374	SC	R2
1.375	2.125	0.437	SA2	G2
1.375	2.125	0.437	SB2	P2
1.375	2.125	0.437	SC	R2
1.375	2.125	0.437	TB2	P2
1.375	2.135	0.311	SC	R2
1.375	2.187	0.248	SC	R2
1.375	2.187	0.500	TC	R2
1.375	2.250	0.311	TB2	G2
1.375	2.250	0.311	TC	R2
1.375	2.250	0.500	TB2	G2
1.375	2.250	0.500	TC	R2
1.375	2.281	0.374	SC	R2
1.375	2.282	0.252	KBR	C2
1.375	2.313	0.437	SC	R2
1.375	2.375	0.311	TB2	P2
1.375	2.375	0.311	TC	R2
1.375	2.375	0.374	TC	RPA
1.375	2.375	0.500	SB2	P2
1.375	2.437	0.250	SB2	G2
1.375	2.437	0.469	SB2	G2
1.375	2.440	0.252	SC	RPA
1.375	2.441	0.311	TA2	P2
1.375	2.441	0.311	TB2	C2
1.375	2.441	0.374	TB2	P2
1.375	2.441	0.374	TC	R2
1.375	2.500	0.374	SC	RV
1.375	2.500	0.374	SC	R2
1.375	2.500	0.500	SA2	G2
1.375	2.502	0.374	TB2	P2
1.375	2.502	0.374	TBR	G2
1.375	2.561	0.374	TB2	P2
1.375	2.717	0.374	TC	R2
1.375	2.750	0.500	SC	R2
1.375	2.835	0.311	TB2	PPA
1.375	2.835	0.374	TB2	G2
1.375	2.835	0.374	TC	R2
1.375	2.835	0.469	TB2	C2
1.375	2.875	0.469	TB2	P2
1.375	3.000	0.500	TA2	G2
1.375	3.150	0.374	TC	R2
1.375	3.156	0.374	SC	R2
1.378	1.534	0.157	VB	C2
1.378	1.614	0.098	VB	G2
1.378	1.614	0.098	VB	G2
1.378	1.654	0.118	KC	R2
1.378	1.654	0.157	KB	G2
1.378	1.654	0.157	SC	R2

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Shaft	Bore	Width	Lip Style	Material
1.378	1.654	0.157	VB	G2
1.378	1.654	0.157	VB	G2
1.378	1.654	0.236	TC	R2
1.378	1.654	0.315	TC	R2
1.378	1.660	0.224	VB	C2
1.378	1.660	0.224	VB	C2
1.378	1.693	0.236	TC	R2
1.378	1.732	0.157	SC	R2
1.378	1.732	0.157	VB	G2
1.378	1.732	0.276	DC	R2
1.378	1.732	0.276	TB	G2
1.378	1.732	0.276	TC	R2
1.378	1.752	0.189	VC	R2
1.378	1.772	0.157	SC	R2
1.378	1.772	0.157	VB	G2
1.378	1.772	0.197	SC	R2
1.378	1.772	0.236	SC	R2
1.378	1.772	0.236	TC	R2
1.378	1.772	0.236	VB	G2
1.378	1.772	0.236	WPC	R4
1.378	1.772	0.276	SB	G2
1.378	1.772	0.276	SC	R2
1.378	1.772	0.276	TC	R2
1.378	1.772	0.315	TB	G2
1.378	1.772	0.315	TC	R2
1.378	1.772	0.394	TC	R2
1.378	1.772	0.472	TC	R2
1.378	1.780	0.276	SC	R2
1.378	1.811	0.276	SC	R2
1.378	1.811	0.394	TC	R2
1.378	1.831	0.315	TC	R2
1.378	1.850	0.197	SC	R2
1.378	1.850	0.197	TC	R2
1.378	1.850	0.197	VB2	G2
1.378	1.850	0.236	TB	G2
1.378	1.850	0.276	KC	R2
1.378	1.850	0.276	SB	G2
1.378	1.850	0.276	SC	RV
1.378	1.850	0.276	SC	R2
1.378	1.850	0.276	SC	R2
1.378	1.850	0.276	TC	R2
1.378	1.850	0.276	TC	R2
1.378	1.850	0.276	TC	R2
1.378	1.850	0.295	TC	RV
1.378	1.850	0.315	TB	GV
1.378	1.850	0.315	TBR	G2
1.378	1.850	0.315	TC	R2
1.378	1.850	0.354	SC	R2
1.378	1.850	0.394	SC	R2
1.378	1.850	0.394	TC	R2
1.378	1.850	0.472	TC	R2
1.378	1.875	0.157	VA2	C2
1.378	1.890	0.276	TB	G2
1.378	1.890	0.276	TC	R2
1.378	1.890	0.315	TC	RPA

Shaft	Bore	Width	Lip Style	Material
1.378	1.890	0.315	TC	R2
1.378	1.890	0.354	TC	R2
1.378	1.890	0.394	TC	R2
1.378	1.929	0.236	TC	R2
1.378	1.929	0.315	TC	R2
1.378	1.949	0.394	TC	R2
1.378	1.969	0.197	SC	R2
1.378	1.969	0.197	TC	R2
1.378	1.969	0.236	TC	R2
1.378	1.969	0.276	SC	R2
1.378	1.969	0.276	TC	R2
1.378	1.969	0.315	SC	R2
1.378	1.969	0.315	TC	R2
1.378	1.969	0.354	TC	R2
1.378	1.969	0.374	TB	G2
1.378	1.969	0.394	SB2	G2
1.378	1.969	0.394	SC	R2
1.378	1.969	0.394	TC	R2
1.378	1.969	0.433	DC	R2
1.378	1.969	0.433	TC	R2
1.378	1.969	0.472	SC	R2
1.378	2.008	0.276	TC	R2
1.378	2.008	0.315	TC	R2
1.378	2.008	0.354	TB2	G2
1.378	2.008	0.394	TC	R2
1.378	2.047	0.197	TC	R2
1.378	2.047	0.236	SB2	C2
1.378	2.047	0.236	SC	RPA
1.378	2.047	0.236	TC	R2
1.378	2.047	0.276	SB2	G2
1.378	2.047	0.276	SC	R2
1.378	2.047	0.276	TC	R2
1.378	2.047	0.315	SBR	C2
1.378	2.047	0.315	SC	R2
1.378	2.047	0.315	TC	R2
1.378	2.047	0.346	SB2	C2
1.378	2.047	0.354	TC	R2
1.378	2.047	0.394	SC	R2
1.378	2.047	0.394	TC	R2
1.378	2.047	0.433	TB2	G2
1.378	2.047	0.433	TC	R2
1.378	2.047	0.472	DC	R2
1.378	2.047	0.472	TC	R2
1.378	2.059	0.374	TC	R2
1.378	2.087	0.276	SC	R2
1.378	2.087	0.276	TC	R2
1.378	2.126	0.236	TC	R2
1.378	2.126	0.315	TB2	G2
1.378	2.126	0.315	TC	R2
1.378	2.126	0.394	TC	R2
1.378	2.126	0.472	TC	R2
1.378	2.165	0.197	TB2	G2
1.378	2.165	0.197	VC	R2
1.378	2.165	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
1.378	2.165	0.315	SC	R2
1.378	2.165	0.315	TB2	G2
1.378	2.165	0.315	TC	R2
1.378	2.165	0.354	TC	R2
1.378	2.165	0.394	SC	R2
1.378	2.165	0.394	TB2	G2
1.378	2.165	0.394	TC	R2
1.378	2.165	0.433	TB2	G2
1.378	2.165	0.433	TB2	PS
1.378	2.165	0.433	TC	R2
1.378	2.165	0.472	SB2	G2
1.378	2.165	0.472	TC	R2
1.378	2.205	0.228	TC	R2
1.378	2.205	0.315	SB2	PV
1.378	2.205	0.315	SC	R2
1.378	2.205	0.315	TC	R2
1.378	2.205	0.394	SC	R2
1.378	2.205	0.394	TB2	G2
1.378	2.205	0.394	TC	R2
1.378	2.205	0.472	SB2	G2
1.378	2.205	0.472	SC	R2
1.378	2.205	0.472	TC	R2
1.378	2.244	0.236	SC	R2
1.378	2.244	0.354	TB2	G2
1.378	2.244	0.354	TC	R2
1.378	2.244	0.394	TC	R2
1.378	2.283	0.236	TC	R2
1.378	2.283	0.315	TB2	P2
1.378	2.283	0.354	SC	R2
1.378	2.283	0.354	TB2	G2
1.378	2.283	0.354	TC	R2
1.378	2.283	0.394	SA2	G2
1.378	2.283	0.394	SC	R2
1.378	2.283	0.394	TB2	G2
1.378	2.283	0.394	TC	R2
1.378	2.283	0.472	TC	R2
1.378	2.283	0.512	TC	R2
1.378	2.283	0.709	TC	R2
1.378	2.323	0.472	TC	R2
1.378	2.362	0.276	TC	R2
1.378	2.362	0.315	SC	R2
1.378	2.362	0.315	TC	R2
1.378	2.362	0.394	DC	R2
1.378	2.362	0.394	SC	R2
1.378	2.362	0.394	TC	R2
1.378	2.362	0.433	TC	R2
1.378	2.362	0.472	TC	R2
1.378	2.441	0.197	VC	R2
1.378	2.441	0.236	TC	R2
1.378	2.441	0.236	TC	R2
1.378	2.441	0.276	SC	RPA
1.378	2.441	0.276	SC	RS
1.378	2.441	0.276	SC	R2
1.378	2.441	0.276	TB2	G2

Shaft	Bore	Width	Lip Style	Material
1.378	2.441	0.276	TC	R2
1.378	2.441	0.315	DC	R2
1.378	2.441	0.315	SC	R2
1.378	2.441	0.315	TC	RPA
1.378	2.441	0.315	TC	R2
1.378	2.441	0.374	TC	R2
1.378	2.441	0.394	SB2	G2
1.378	2.441	0.394	SC	R2
1.378	2.441	0.394	TC	R2
1.378	2.441	0.394	TC	R2
1.378	2.441	0.433	TC	R2
1.378	2.441	0.472	TB2	G2
1.378	2.441	0.472	TC	R2
1.378	2.500	0.311	SC	R2
1.378	2.500	0.472	TC	RPA
1.378	2.520	0.315	TB2	P2
1.378	2.520	0.394	TC	R2
1.378	2.520	0.472	TC	R2
1.378	2.520	0.512	TB	G2
1.378	2.520	0.512	TC	R2
1.378	2.559	0.276	TC	R2
1.378	2.559	0.394	SC	R2
1.378	2.559	0.394	TC	R2
1.378	2.559	0.472	TB2	G2
1.378	2.559	0.472	TC	R2
1.378	2.638	0.472	TC	RPA
1.378	2.677	0.236	SC	R2
1.378	2.677	0.236	TC	R2
1.378	2.677	0.315	SC	R2
1.378	2.677	0.315	TC	R2
1.378	2.677	0.394	SC	R2
1.378	2.677	0.394	TC	R2
1.378	2.677	0.472	SC	R2
1.378	2.756	0.394	TC	R2
1.378	2.756	0.472	TC	R2
1.378	2.835	0.276	SC	R2
1.378	2.835	0.276	TC	R2
1.378	2.835	0.315	TC	R2
1.378	2.835	0.374	TB2	G2
1.378	2.835	0.394	SA2	G2
1.378	2.835	0.394	SC	R2
1.378	2.835	0.394	TB2	G2
1.378	2.835	0.394	TC	R2
1.378	2.835	0.433	TC	R2
1.378	2.835	0.472	SA2	G2
1.378	2.835	0.472	SC	R2
1.378	2.835	0.472	TC	R2
1.378	2.835	0.472	TC	R2
1.378	2.953	0.276	TC	RV
1.378	2.953	0.315	TC	R2
1.378	2.953	0.394	TC	R2
1.378	2.953	0.472	TC	R2
1.378	2.953	0.472	TC	R2
1.378	3.071	0.315	TC	R2
1.378	3.150	0.236	TC	R2
1.378	3.150	0.315	SB2	G2



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Shaft	Bore	Width	Lip Style	Material
1.378	3.150	0.315	SC	R2
1.378	3.150	0.315	TC	R2
1.378	3.150	0.394	SC	R2
1.378	3.150	0.394	TC	R2
1.378	3.150	0.472	SC	R2
1.378	3.150	0.472	TC	R2
1.378	3.150	0.512	SA2	G2
1.378	3.150	0.512	SC	R2
1.378	3.150	0.512	TC	R2
1.378	3.189	0.394	TB2	C2
1.378	3.228	0.236	SC	R2
1.378	3.228	0.276	TC	R2
1.378	3.228	0.394	TC	R2
1.378	3.346	0.394	SB2	C2
1.378	3.543	0.512	TC	R2
1.387	2.328	0.311	TB2	G2
1.399	2.250	0.252	TB2	P2
1.399	2.292	0.500	SB2	C2
1.400	2.292	0.500	TBR	C2
1.409	2.677	0.394	TB2	G2
1.410	1.560	0.118	VB	C2
1.415	2.063	0.311	TC	R2
1.417	1.693	0.315	KBR	C2
1.417	1.732	0.197	TC	R2
1.417	1.772	0.276	TC	R2
1.417	1.811	0.236	TC	R2
1.417	1.811	0.276	TC	R2
1.417	1.811	0.354	SB	G2
1.417	1.811	0.354	SBR	G2
1.417	1.811	0.354	TB	G2
1.417	1.811	0.354	TC	R2
1.417	1.850	0.276	SC	R2
1.417	1.850	0.276	TC	R2
1.417	1.850	0.315	TC	R2
1.417	1.890	0.236	TC	R2
1.417	1.890	0.276	TC	R2
1.417	1.890	0.315	TC	R2
1.417	1.890	0.394	TC	R2
1.417	1.890	0.433	DC	R2
1.417	1.929	0.276	TC	R2
1.417	1.929	0.394	TC	R2
1.417	1.969	0.197	TC	R2
1.417	1.969	0.276	SC	R2
1.417	1.969	0.276	TA2	G2
1.417	1.969	0.276	TBR	G2
1.417	1.969	0.276	TC	R2
1.417	1.969	0.394	TC	R2
1.417	1.988	0.276	TC	R2
1.417	2.008	0.276	TC	R2
1.417	2.008	0.315	TC	R2
1.417	2.047	0.248	SC	R2
1.417	2.047	0.276	SC	R2
1.417	2.047	0.276	TC	R2
1.417	2.047	0.276	TC	R2
1.417	2.047	0.315	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.417	2.047	0.394	TC	R2
1.417	2.126	0.276	SC	R2
1.417	2.126	0.276	TB2	G3
1.417	2.126	0.276	TC	R2
1.417	2.126	0.295	SC	R2
1.417	2.126	0.295	TC	R2
1.417	2.126	0.315	SC	R2
1.417	2.126	0.315	TC	R2
1.417	2.126	0.394	TC	R2
1.417	2.126	0.433	TB2	G2
1.417	2.165	0.256	TB2	G2
1.417	2.165	0.394	TC	R2
1.417	2.165	0.472	TC	R2
1.417	2.205	0.315	TC	R2
1.417	2.205	0.394	SC	R2
1.417	2.205	0.394	TC	R2
1.417	2.205	0.472	TC	R2
1.417	2.283	0.315	TB2	P2
1.417	2.283	0.315	TC	R2
1.417	2.283	0.394	SC	R2
1.417	2.283	0.472	TC	R2
1.417	2.362	0.236	TC	R2
1.417	2.362	0.276	TC	R2
1.417	2.362	0.394	TC	R2
1.417	2.362	0.472	TC	R2
1.417	2.441	0.276	SC	R2
1.417	2.441	0.276	TC	R2
1.417	2.441	0.394	TC	R2
1.417	2.500	0.512	TC	R2
1.417	2.677	0.315	SB2	G2
1.417	2.677	0.394	SC	R2
1.417	2.677	0.472	TB2	G2
1.417	2.835	0.276	TC	R2
1.417	3.268	0.472	SC	R2
1.437	1.693	0.315	KB	G2
1.437	1.713	0.315	KB	G2
1.437	1.732	0.197	VC	R2
1.437	1.750	0.193	SBR	C2
1.437	1.850	0.197	TC	R2
1.437	1.937	0.252	SB	G2
1.437	2.000	0.311	TB2	C2
1.437	2.000	0.311	TC	R2
1.437	2.062	0.311	TC	RPA
1.437	2.063	0.311	TB2	P2
1.437	2.125	0.311	TB2	C2
1.437	2.187	0.437	TC	R2
1.437	2.250	0.311	SB2	P2
1.437	2.250	0.311	TB2	P2
1.437	2.250	0.374	TC	R2
1.437	2.328	0.252	SC	R2
1.437	2.328	0.252	TC	R2
1.437	2.329	0.374	TB2	C2
1.437	2.374	0.311	TB2	P2
1.437	2.441	0.276	TC	R2

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Shaft	Bore	Width	Lip Style	Material
1.437	2.500	0.500	SC	R2
1.437	2.502	0.311	TB2	G2
1.437	2.502	0.500	SB2	G2
1.437	2.686	0.311	SB2	P2
1.437	2.686	0.374	TB2	P2
1.437	2.835	0.276	TC	R2
1.437	3.500	0.437	TC	R2
1.438	1.560	0.118	VB	C2
1.447	2.441	0.157	KC	R2
1.450	2.000	0.311	SB	G2
1.457	1.772	0.276	TC	R2
1.457	1.850	0.157	VB	G2
1.457	1.850	0.394	TC	R2
1.457	1.969	0.236	TB	G2
1.457	1.969	0.276	SC	R2
1.457	1.969	0.394	TC	R2
1.457	2.047	0.276	SC	RPA
1.457	2.047	0.315	SC	R2
1.457	2.047	0.315	TC	R2
1.457	2.087	0.276	TC	R2
1.457	2.165	0.315	TC	R2
1.457	2.205	0.354	SC	RPA
1.457	2.205	0.354	TB2	G2
1.457	2.244	0.394	TC	R2
1.457	2.283	0.276	TC	R2
1.457	2.283	0.394	TC	R2
1.457	2.283	0.512	TC	R2
1.457	2.441	0.315	SC	R2
1.457	2.441	0.315	TC	R2
1.457	2.441	0.394	SC	R2
1.457	2.441	0.394	TC	R2
1.457	2.520	0.512	TC	R2
1.457	2.835	0.276	TC	R2
1.457	2.913	0.433	TC	R2
1.457	3.150	0.394	SC	R2
1.457	3.150	0.472	SC	R2
1.457	3.150	0.512	SC	R2
1.469	1.875	0.189	VC	R2
1.469	2.063	0.500	SB	GPA
1.469	2.125	0.252	SB	G2
1.469	2.375	0.374	TB2	C2
1.476	1.772	0.157	VB2	G2
1.476	1.850	0.276	KC	P2
1.488	2.442	0.185	WPB	G4
1.489	3.147	0.378	TC	RV
1.491	2.191	0.252	SA2	G2
1.494	1.995	0.252	VB	C2
1.496	1.654	0.252	VC	R2
1.496	1.693	0.118	VB	G2
1.496	1.772	0.157	VB	G2
1.496	1.772	0.315	KB	G2
1.496	1.850	0.276	TBR	G2
1.496	1.850	0.276	TC	R2
1.496	1.850	0.394	SB	G2

Shaft	Bore	Width	Lip Style	Material
1.496	1.850	0.394	SBR	G2
1.496	1.850	0.394	SC	R2
1.496	1.850	0.394	TC	R2
1.496	1.870	0.197	TB	G3
1.496	1.890	0.157	VB	G2
1.496	1.890	0.236	TC	R2
1.496	1.890	0.276	TC	R2
1.496	1.890	0.394	TC	R2
1.496	1.929	0.315	TC	R2
1.496	1.937	0.354	TB	G2
1.496	1.969	0.276	KC	R2
1.496	1.969	0.276	SB2	GV
1.496	1.969	0.276	SC	R2
1.496	1.969	0.276	TB	G2
1.496	1.969	0.276	TC	R2
1.496	1.969	0.315	SC	R2
1.496	1.969	0.315	TC	R2
1.496	1.969	0.394	TC	R2
1.496	1.980	0.394	KB	G2
1.496	1.980	0.394	KB2	C2
1.496	2.008	0.276	TB	G2
1.496	2.008	0.276	TC	R2
1.496	2.047	0.236	KB2	G2
1.496	2.047	0.236	KC	R2
1.496	2.047	0.236	TB2	G2
1.496	2.047	0.236	TC	R2
1.496	2.047	0.276	SB	G2
1.496	2.047	0.276	SC	R2
1.496	2.047	0.276	TA2	G2
1.496	2.047	0.276	TB2	G2
1.496	2.047	0.276	TC	R2
1.496	2.047	0.315	SC	R2
1.496	2.047	0.315	TC	R2
1.496	2.047	0.335	TC	R2
1.496	2.047	0.354	TC	R2
1.496	2.047	0.374	KC	R2
1.496	2.047	0.394	SB2	C2
1.496	2.047	0.394	SC	R2
1.496	2.047	0.394	TC	R2
1.496	2.071	0.236	TC	R2
1.496	2.087	0.315	TC	RPA
1.496	2.126	0.276	SB	PPA
1.496	2.126	0.276	TC	R2
1.496	2.126	0.394	SC	R2
1.496	2.126	0.394	TC	R2
1.496	2.126	0.433	TB2	G2
1.496	2.165	0.236	SC	R2
1.496	2.165	0.236	TC	R2
1.496	2.165	0.276	SC	R2
1.496	2.165	0.276	TC	R2
1.496	2.165	0.315	TBR	GS
1.496	2.165	0.315	TC	R2
1.496	2.165	0.354	TB	G2
1.496	2.165	0.354	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.496	2.165	0.394	SC	R2
1.496	2.165	0.394	TC	R2
1.496	2.177	0.315	KBR	C2
1.496	2.205	0.276	TC	R2
1.496	2.205	0.315	TC	R2
1.496	2.205	0.354	TB2	G2
1.496	2.205	0.394	SC	R2
1.496	2.205	0.394	TC	R3
1.496	2.205	0.472	TC	R2
1.496	2.244	0.394	TC	R2
1.496	2.283	0.276	TC	R2
1.496	2.283	0.315	TA2	G2
1.496	2.283	0.315	TB2	P2
1.496	2.283	0.315	TC	R2
1.496	2.283	0.335	TB2	GS
1.496	2.283	0.394	TC	R2
1.496	2.283	0.413	TB2	P2
1.496	2.283	0.433	TB2	GPA
1.496	2.283	0.433	TC	R2
1.496	2.283	0.472	TC	R2
1.496	2.362	0.315	TB2	G2
1.496	2.362	0.315	TC	R2
1.496	2.362	0.354	TC	R2
1.496	2.362	0.394	TC	R2
1.496	2.382	0.472	TC	R3
1.496	2.441	0.276	SC	R2
1.496	2.441	0.276	TC	R2
1.496	2.441	0.315	SC	R2
1.496	2.441	0.315	TC	R2
1.496	2.441	0.354	TC	R2
1.496	2.441	0.394	SC	R2
1.496	2.441	0.394	TC	R2
1.496	2.441	0.433	SC	R2
1.496	2.441	0.433	TB2	G2
1.496	2.441	0.472	TC	R2
1.496	2.500	0.394	TB2	G2
1.496	2.500	0.394	TC	R2
1.496	2.500	0.472	TC	R3
1.496	2.520	0.433	DC	R2
1.496	2.520	0.472	TC	R2
1.496	2.559	0.315	SC	R2
1.496	2.559	0.315	TC	R2
1.496	2.559	0.354	TB2	GPA
1.496	2.559	0.354	TC	R2
1.496	2.559	0.394	TC	R2
1.496	2.559	0.433	TC	R2
1.496	2.559	0.472	TC	R2
1.496	2.559	0.512	TC	R2
1.496	2.677	0.315	TC	R2
1.496	2.677	0.472	TC	R2
1.496	2.756	0.394	TB2	G2
1.496	2.756	0.394	TC	R2
1.496	2.835	0.394	TC	R2
1.496	2.835	0.472	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.496	2.913	0.394	SC	R2
1.496	2.913	0.433	TB2	GPA
1.496	2.913	0.433	TC	R2
1.496	3.150	0.315	TC	R2
1.496	3.150	0.394	TC	R2
1.496	3.543	0.315	SB2	G2
1.499	1.630	0.126	VB	C2
1.499	2.310	0.500	SC	RV
1.500	1.750	0.157	VB	G2
1.500	1.750	0.157	VB	G2
1.500	1.750	0.374	WPB	G4
1.500	1.772	0.189	WPB	G4
1.500	1.875	0.126	WPB	G4
1.500	1.875	0.189	SB	G2
1.500	1.875	0.189	SB	P2
1.500	1.875	0.189	TB	P2
1.500	1.875	0.189	VB	C2
1.500	1.875	0.189	WPB	G4
1.500	1.875	0.252	SB	G2
1.500	1.875	0.252	TB	P2
1.500	1.875	0.252	WPB	G4
1.500	1.917	0.252	SB	GV
1.500	1.921	0.252	SB2	GV
1.500	1.937	0.252	SBR	C2
1.500	1.937	0.252	SC	R2
1.500	1.938	0.189	TB	C2
1.500	1.939	0.248	TC	RV
1.500	1.983	0.189	TB2	C2
1.500	1.983	0.252	TB2	G2
1.500	1.983	0.252	TC	R2
1.500	1.983	0.252	VB2	G2
1.500	1.983	0.437	SA2	G2
1.500	1.984	0.189	VB2	C2
1.500	1.987	0.189	TB	G2
1.500	1.987	0.311	SB2	P2
1.500	1.988	0.252	TB2	C2
1.500	1.989	0.252	KB	C2
1.500	1.989	0.252	VA2	G2
1.500	2.000	0.189	SC	R2
1.500	2.000	0.189	VB2	C2
1.500	2.000	0.224	VB	C2
1.500	2.000	0.252	KC	P2
1.500	2.000	0.252	SC	RPA
1.500	2.000	0.252	SC	R2
1.500	2.000	0.252	WPB	G4
1.500	2.000	0.252	WPB	G4
1.500	2.000	0.311	SB	P2
1.500	2.000	0.311	TB	P2
1.500	2.000	0.311	TC	R2
1.500	2.000	0.311	TC	R2
1.500	2.000	0.311	WPB	G4
1.500	2.000	0.374	SC	R2
1.500	2.000	0.374	TB2	P2
1.500	2.062	0.209	VB2	P2

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Shaft	Bore	Width	Lip Style	Material
1.500	2.062	0.209	VC	R2
1.500	2.062	0.209	VC	R2
1.500	2.063	0.252	SC	R2
1.500	2.063	0.252	TB2	P2
1.500	2.063	0.272	SB	P2
1.500	2.063	0.311	SC	R2
1.500	2.063	0.437	TB2	C2
1.500	2.125	0.311	SB	P2
1.500	2.125	0.311	TC	R2
1.500	2.125	0.315	TB2	G2
1.500	2.125	0.315	TB2	P2
1.500	2.125	0.374	TB2	P2
1.500	2.125	0.437	SC	R2
1.500	2.125	0.437	TB2	PS
1.500	2.187	0.252	SBR	C2
1.500	2.188	0.272	SBR	C2
1.500	2.250	0.311	SC	R2
1.500	2.250	0.311	TB2	G2
1.500	2.250	0.311	TC	R2
1.500	2.250	0.374	SBR	GV
1.500	2.250	0.374	SC	R2
1.500	2.250	0.374	TC	R2
1.500	2.250	0.500	SC	R2
1.500	2.250	0.500	TB2	G2
1.500	2.254	0.252	VB2	P2
1.500	2.254	0.311	SA2	P2
1.500	2.260	0.406	SB2	P2
1.500	2.327	0.406	VB2	G2
1.500	2.328	0.374	TC	R2
1.500	2.328	0.375	TB2	G2
1.500	2.375	0.252	KC	P2
1.500	2.375	0.311	TB2	P2
1.500	2.375	0.311	TC	R2
1.500	2.375	0.500	SB2	P2
1.500	2.375	0.500	TB2	G2
1.500	2.375	0.500	TB2	PPA
1.500	2.430	0.374	SC	R2
1.500	2.437	0.252	WPB	G4
1.500	2.441	0.311	TB2	P2
1.500	2.500	0.252	SC	R2
1.500	2.500	0.311	SC	R2
1.500	2.500	0.311	TC	R2
1.500	2.500	0.374	SC	R2
1.500	2.500	0.500	SA2	C2
1.500	2.500	0.500	SC	R2
1.500	2.500	0.500	TB2	P2
1.500	2.502	0.311	SB2	G2
1.500	2.502	0.311	TB2	C2
1.500	2.502	0.374	SB2	P2
1.500	2.502	0.433	SB2	P2
1.500	2.623	0.311	TC	R2
1.500	2.686	0.500	SB2	C2
1.500	2.687	0.374	VC	R2
1.500	2.721	0.374	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.500	2.750	0.311	SB2	C2
1.500	2.750	0.311	TB2	P2
1.500	2.750	0.374	SC	R2
1.500	2.758	0.500	SB2	G2
1.500	2.758	0.500	TC	R2
1.500	2.835	0.311	SB2	P2
1.500	2.835	0.311	TB2	P2
1.500	2.874	0.469	SB2	C2
1.500	2.875	0.437	TC	R2
1.500	3.000	0.374	TB2	P2
1.500	3.125	0.374	SB2	G2
1.500	3.125	0.375	TB2	C2
1.500	3.150	0.276	TC	R2
1.512	1.987	0.189	VB2	G2
1.524	2.374	0.374	SA2	P2
1.535	1.929	0.335	TB	G2
1.535	1.984	0.280	TB	G2
1.535	1.984	0.335	TBR	C2
1.535	1.984	0.354	TBR	C2
1.535	1.988	0.335	TBR	G2
1.535	2.008	0.295	SC	R2
1.535	2.008	0.295	TC	R2
1.535	2.047	0.236	KB	G2
1.535	2.087	0.374	TC	R2
1.535	2.126	0.236	KB2	G2
1.535	2.165	0.354	TC	R2
1.535	2.185	0.394	TA2	G2
1.535	2.205	0.276	TC	R2
1.535	2.323	0.315	TC	RS
1.535	2.362	0.354	TB2	C2
1.535	2.362	0.394	TB2	G2
1.535	2.441	0.236	TC	RV
1.535	2.559	0.315	TC	R2
1.535	2.559	0.354	SC	R2
1.535	2.756	0.433	DC	R2
1.552	2.686	0.500	SBR	C2
1.555	2.362	0.394	TB2	G2
1.559	2.047	0.433	TC	R2
1.562	2.250	0.374	SA2	C2
1.562	2.441	0.500	TC	R2
1.562	2.500	0.500	SB2	C2
1.562	2.502	0.500	SA2	P2
1.562	2.623	0.311	TC	R2
1.562	2.686	0.374	TB2	P2
1.562	3.150	0.311	TC	R2
1.563	2.000	0.173	SC	R4
1.563	2.062	0.205	WPB	G4
1.563	2.063	0.209	VB2	P2
1.563	2.063	0.252	SB	CPA
1.563	2.063	0.252	SBR	P2
1.563	2.125	0.311	SB2	CPA
1.563	2.125	0.315	TA2	P2
1.563	2.125	0.315	TB2	CPA
1.563	2.125	0.315	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.563	2.125	0.374	TB2	P2
1.563	2.125	0.437	TA2	G2
1.563	2.125	0.437	TA2	P2
1.563	2.187	0.350	SC	RPA
1.563	2.250	0.252	SBR	G2
1.563	2.250	0.311	TB2	P2
1.563	2.250	0.311	TC	R2
1.563	2.374	0.311	SB2	C2
1.563	2.374	0.311	TA2	C2
1.563	2.374	0.311	TB2	C2
1.563	2.375	0.252	VA2	P2
1.563	2.375	0.374	TC	R2
1.563	2.375	0.469	TB2	C2
1.563	2.406	0.500	SA2	G2
1.563	2.437	0.374	TB2	P2
1.563	2.437	0.437	TC	R2
1.563	2.441	0.374	TB2	P2
1.563	2.465	0.370	TB2	PV
1.563	2.500	0.374	SC	R2
1.563	2.500	0.500	SA2	P2
1.563	2.500	0.500	TC	R2
1.563	2.502	0.311	TB2	P2
1.563	2.561	0.500	SA2	P2
1.563	2.563	0.437	TC	R2
1.563	2.623	0.311	TB2	P2
1.563	2.687	0.374	TC	R2
1.563	2.875	0.311	SB2	P2
1.563	2.875	0.374	TB2	G2
1.563	3.150	0.311	TB2	P2
1.574	2.502	0.598	DC	R2
1.575	1.772	0.079	VC	R2
1.575	1.850	0.157	TB2	C2
1.575	1.850	0.157	VB	G2
1.575	1.850	0.157	VC	R2
1.575	1.890	0.157	VC	R2
1.575	1.929	0.217	TB	G2
1.575	1.953	0.287	SC	R2
1.575	1.969	0.157	VB	G2
1.575	1.969	0.157	VC	R2
1.575	1.969	0.197	TC	R2
1.575	1.969	0.256	TC	R2
1.575	1.969	0.276	SC	R2
1.575	1.969	0.276	TC	R2
1.575	1.969	0.315	SC	R2
1.575	1.969	0.315	TC	R2
1.575	1.969	0.394	SC	R2
1.575	1.969	0.394	TC	R2
1.575	1.969	0.394	TC	R2
1.575	2.008	0.276	TB	G2
1.575	2.047	0.157	KC	R2
1.575	2.047	0.197	VB2	G2
1.575	2.047	0.197	VC	R2
1.575	2.047	0.236	TC	R2
1.575	2.047	0.236	VC	R2
1.575	2.047	0.256	SC	R2

Shaft	Bore	Width	Lip Style	Material
1.575	2.047	0.276	KC	R2
1.575	2.047	0.276	SB	G2
1.575	2.047	0.276	SC	RV
1.575	2.047	0.276	SC	R2
1.575	2.047	0.276	SC	R2
1.575	2.047	0.276	TA2	G2
1.575	2.047	0.276	TB	G2
1.575	2.047	0.276	TC	R2
1.575	2.047	0.315	TB2	P2
1.575	2.047	0.315	TC	R2
1.575	2.047	0.354	TC	R2
1.575	2.047	0.394	TC	R2
1.575	2.063	0.228	TB	P2
1.575	2.067	0.236	TC	R3
1.575	2.087	0.276	TB	G2
1.575	2.087	0.315	TC	R2
1.575	2.087	0.335	TC	R2
1.575	2.126	0.197	TB	G2
1.575	2.126	0.197	VB	G2
1.575	2.126	0.236	TBR	C2
1.575	2.126	0.276	TB2	G2
1.575	2.126	0.276	TC	R2
1.575	2.126	0.276	VC	R2
1.575	2.126	0.295	TB2	G2
1.575	2.126	0.315	SB2	G2
1.575	2.126	0.315	TBR	G2
1.575	2.126	0.315	TC	R2
1.575	2.126	0.394	TC	R2
1.575	2.165	0.197	KC	R2
1.575	2.165	0.236	SC	RV
1.575	2.165	0.236	TC	R2
1.575	2.165	0.256	KB2	C2
1.575	2.165	0.256	TB2	G2
1.575	2.165	0.276	DC	R2
1.575	2.165	0.276	SC	RV
1.575	2.165	0.276	SC	R2
1.575	2.165	0.276	TC	R2
1.575	2.165	0.315	KB2	G2
1.575	2.165	0.315	SC	R2
1.575	2.165	0.315	TB2	P2
1.575	2.165	0.315	TC	RV
1.575	2.165	0.315	TC	R2
1.575	2.165	0.354	SA2	G2
1.575	2.165	0.354	TB2	G2
1.575	2.165	0.394	SC	R2
1.575	2.165	0.394	TC	R2
1.575	2.165	0.472	TC	R2
1.575	2.191	0.252	SA2	P2
1.575	2.205	0.276	SC	R2
1.575	2.205	0.276	TB2	G2
1.575	2.205	0.276	TC	R2
1.575	2.205	0.315	SC	R2
1.575	2.205	0.315	TB2	G2
1.575	2.205	0.315	TC	RPA

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Shaft	Bore	Width	Lip Style	Material
1.575	2.205	0.315	TC	R2
1.575	2.205	0.315	TC	R2
1.575	2.205	0.394	TB2	G2
1.575	2.205	0.394	TC	R2
1.575	2.205	0.472	SC	R2
1.575	2.205	0.472	TC	R2
1.575	2.244	0.276	TC	R2
1.575	2.244	0.315	TBR	C2
1.575	2.244	0.394	TC	R2
1.575	2.250	0.394	SB2	C2
1.575	2.250	0.394	TB2	C2
1.575	2.250	0.394	TC	R2
1.575	2.283	0.236	SC	RPA
1.575	2.283	0.236	TC	R2
1.575	2.283	0.256	TC	R2
1.575	2.283	0.315	SC	R2
1.575	2.283	0.315	TC	R2
1.575	2.283	0.354	SC	R2
1.575	2.283	0.394	SC	R2
1.575	2.283	0.394	TC	R2
1.575	2.283	0.472	SC	R2
1.575	2.283	0.472	TC	R2
1.575	2.323	0.394	TC	R2
1.575	2.358	0.217	TC	R2
1.575	2.362	0.197	VC	R2
1.575	2.362	0.236	TC	R2
1.575	2.362	0.276	SC	R2
1.575	2.362	0.276	TC	R2
1.575	2.362	0.315	SC	R2
1.575	2.362	0.315	TC	R2
1.575	2.362	0.394	DC	R2
1.575	2.362	0.394	SC	R2
1.575	2.362	0.394	TB2	G2
1.575	2.362	0.394	TC	R2
1.575	2.362	0.472	SC	R2
1.575	2.362	0.472	TB2	G2
1.575	2.362	0.472	TC	R2
1.575	2.441	0.197	VC	R2
1.575	2.441	0.256	KC	R2
1.575	2.441	0.276	SC	R2
1.575	2.441	0.276	TC	R2
1.575	2.441	0.315	SC	R2
1.575	2.441	0.315	TC	R2
1.575	2.441	0.354	TB2	G2
1.575	2.441	0.354	TC	R2
1.575	2.441	0.394	DC	R2
1.575	2.441	0.394	SC	R2
1.575	2.441	0.394	TB2	G2
1.575	2.441	0.394	TC	R2
1.575	2.441	0.433	TB2	G2
1.575	2.441	0.433	TC	R2
1.575	2.441	0.453	SC	R2
1.575	2.441	0.453	TC	R2
1.575	2.441	0.472	SC	R2

Shaft	Bore	Width	Lip Style	Material
1.575	2.441	0.472	TB2	G2
1.575	2.441	0.472	TC	R2
1.575	2.441	0.512	TB2	C2
1.575	2.461	0.433	TC	RPA
1.575	2.480	0.276	TC	R2
1.575	2.500	0.394	TB2	G2
1.575	2.500	0.394	TC	R2
1.575	2.520	0.157	TC	R2
1.575	2.520	0.394	TC	R2
1.575	2.520	0.472	TC	R2
1.575	2.559	0.276	TC	R2
1.575	2.559	0.315	TC	R2
1.575	2.559	0.354	SB2	C2
1.575	2.559	0.394	SA2	G2
1.575	2.559	0.394	SC	R2
1.575	2.559	0.394	TC	R2
1.575	2.559	0.472	TB2	G2
1.575	2.559	0.472	TC	R2
1.575	2.598	0.236	SB2	P2
1.575	2.638	0.472	TC	R2
1.575	2.677	0.197	TC	R2
1.575	2.677	0.276	SC	R2
1.575	2.677	0.276	TC	R2
1.575	2.677	0.315	SB2	P2
1.575	2.677	0.315	SC	RV
1.575	2.677	0.315	TC	R2
1.575	2.677	0.394	SC	R2
1.575	2.677	0.394	TB2	G2
1.575	2.677	0.394	TBR	G2
1.575	2.677	0.394	TC	R2
1.575	2.677	0.433	TB2	G2
1.575	2.677	0.472	SC	R2
1.575	2.677	0.472	TC	R2
1.575	2.756	0.315	TC	R2
1.575	2.756	0.394	SC	R2
1.575	2.756	0.394	TA2	G2
1.575	2.756	0.394	TC	R2
1.575	2.756	0.472	SA2	G2
1.575	2.756	0.472	TC	R2
1.575	2.835	0.276	SC	R2
1.575	2.835	0.276	TC	R2
1.575	2.835	0.315	TC	R2
1.575	2.835	0.394	SBR	G2
1.575	2.835	0.394	SC	R2
1.575	2.835	0.394	TC	R2
1.575	2.835	0.472	TB2	G2
1.575	2.835	0.472	TC	R2
1.575	2.913	0.394	TC	R2
1.575	2.953	0.276	SC	R2
1.575	2.953	0.315	SB2	G2
1.575	2.953	0.394	TC	R2
1.575	2.953	0.472	TC	R2
1.575	2.953	0.512	TC	R2
1.575	2.992	0.315	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.575	3.071	0.276	TC	R2
1.575	3.150	0.276	SC	R2
1.575	3.150	0.276	TC	R2
1.575	3.150	0.315	SC	R2
1.575	3.150	0.315	TC	R2
1.575	3.150	0.394	SC	R2
1.575	3.150	0.394	TB2	G2
1.575	3.150	0.394	TC	R2
1.575	3.150	0.472	TC	R2
1.575	3.150	0.512	SC	R2
1.575	3.169	0.394	TC	R2
1.575	3.346	0.394	SC	R2
1.575	3.346	0.394	TC	R2
1.575	3.346	0.433	TB2	G2
1.575	3.346	0.472	TC	R2
1.575	3.386	0.394	TB2	C2
1.575	3.465	0.236	SC	R2
1.575	3.543	0.315	SB2	P2
1.575	3.543	0.315	SC	R2
1.575	3.543	0.315	TC	R2
1.575	3.543	0.394	SC	R2
1.575	3.543	0.394	TC	R2
1.575	3.543	0.472	SC	R2
1.575	3.543	0.472	TC	R2
1.575	4.331	0.394	TC	R2
1.578	2.408	0.500	SA2	P2
1.593	2.502	0.252	SB2	P2
1.594	2.283	0.315	TC	R2
1.594	2.437	0.469	SA2	P2
1.610	2.000	0.217	SC	RPA
1.614	1.941	0.244	TB	GS
1.614	2.008	0.197	KC	R2
1.614	2.008	0.197	TC	R2
1.614	2.087	0.276	TA2	G2
1.614	2.087	0.276	TBR	G2
1.614	2.087	0.276	TC	R2
1.614	2.087	0.315	TB	G2
1.614	2.126	0.276	TC	R2
1.614	2.165	0.276	TB	G2
1.614	2.165	0.276	TC	R2
1.614	2.165	0.354	TB	G2
1.614	2.193	0.354	TC	R2
1.614	2.205	0.276	SC	R2
1.614	2.205	0.276	TBR	G2
1.614	2.205	0.276	TC	R2
1.614	2.402	0.354	TB2	G2
1.614	2.441	0.315	TC	R2
1.614	2.520	0.394	TC	R2
1.614	2.559	0.354	SB2	G2
1.614	2.559	0.394	TB2	G2
1.617	1.998	0.299	TB2	C2
1.619	2.445	0.193	SBR	C2
1.619	2.532	0.260	TB2	C2
1.619	2.532	0.260	TB2	C2

Shaft	Bore	Width	Lip Style	Material
1.619	2.532	0.260	VB	C2
1.620	1.997	0.252	SB	C2
1.620	2.000	0.252	SB	C2
1.625	1.750	0.126	VB	C2
1.625	1.875	0.157	WPB	G4
1.625	1.937	0.252	TB	GS
1.625	1.938	0.252	TB	GPA
1.625	2.000	0.142	TB	CS
1.625	2.000	0.189	VC	R2
1.625	2.000	0.189	WPB	G4
1.625	2.000	0.220	SC	RV
1.625	2.000	0.252	SB	G2
1.625	2.000	0.252	TC	R2
1.625	2.116	0.311	TB	P2
1.625	2.125	0.252	SB2	PPA
1.625	2.125	0.252	SC	R2
1.625	2.125	0.252	VB2	G2
1.625	2.125	0.252	WPB	G4
1.625	2.125	0.283	SB2	CV
1.625	2.160	0.276	SB2	P2
1.625	2.187	0.374	TC	R2
1.625	2.207	0.276	SB2	P2
1.625	2.207	0.276	SB2	P2
1.625	2.250	0.311	TB2	P2
1.625	2.282	0.311	SB2	P2
1.625	2.374	0.252	TB2	P2
1.625	2.374	0.311	SB2	C2
1.625	2.374	0.311	TB2	P2
1.625	2.374	0.500	SA2	C2
1.625	2.375	0.374	TC	R2
1.625	2.375	0.437	SA2	P2
1.625	2.437	0.311	SB2	P2
1.625	2.437	0.311	TB2	GV
1.625	2.437	0.374	SB2	C2
1.625	2.437	0.374	TB2	G2
1.625	2.437	0.469	TA2	G2
1.625	2.437	0.500	SB2	C2
1.625	2.441	0.374	TB2	P2
1.625	2.441	0.374	TC	R2
1.625	2.441	0.472	DC	R2
1.625	2.500	0.252	SB	GV
1.625	2.500	0.252	TB2	CS
1.625	2.500	0.311	SC	R2
1.625	2.502	0.311	TB2	P2
1.625	2.502	0.311	TC	R2
1.625	2.502	0.374	TB2	P2
1.625	2.502	0.469	SC	R2
1.625	2.562	0.311	TB2	PPA
1.625	2.563	0.374	VB2	C2
1.625	2.575	0.500	SA2	C2
1.625	2.625	0.250	TB2	P2
1.625	2.625	0.311	TB2	G2
1.625	2.625	0.374	TC	R2
1.625	2.750	0.311	SA2	P2

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Shaft	Bore	Width	Lip Style	Material
1.625	2.750	0.311	TB2	P2
1.625	2.750	0.374	TB2	G2
1.625	3.000	0.311	SA2	G2
1.625	3.000	0.500	SA2	P2
1.626	1.874	0.126	VB	CV
1.626	1.874	0.126	VB	CV
1.642	2.165	0.276	TC	R2
1.642	2.165	0.394	TC	R2
1.646	2.656	0.406	TB2	PPA
1.652	2.125	0.248	TC	RV
1.654	1.969	0.236	TC	R2
1.654	1.969	0.276	TC	R2
1.654	1.969	0.394	TC	R2
1.654	2.008	0.276	TC	R2
1.654	2.047	0.157	TC	R2
1.654	2.047	0.157	VB	C2
1.654	2.047	0.157	VC	R2
1.654	2.047	0.236	TC	R2
1.654	2.047	0.276	SC	R2
1.654	2.047	0.276	TC	R2
1.654	2.047	0.315	TC	R2
1.654	2.047	0.394	SC	R2
1.654	2.047	0.472	TC	R2
1.654	2.087	0.276	TBR	G2
1.654	2.087	0.315	TB	G2
1.654	2.126	0.276	TC	R2
1.654	2.126	0.295	SBR	C2
1.654	2.126	0.295	TB	G2
1.654	2.165	0.236	TB2	C2
1.654	2.165	0.236	TC	R2
1.654	2.165	0.276	KC	R2
1.654	2.165	0.276	SA2	GV
1.654	2.165	0.276	SC	R2
1.654	2.165	0.276	TB	G2
1.654	2.165	0.276	TB2	G2
1.654	2.165	0.276	TBR	G2
1.654	2.165	0.276	TC	R2
1.654	2.165	0.315	SC	R2
1.654	2.165	0.315	TB2	G2
1.654	2.165	0.315	TC	R2
1.654	2.165	0.354	SB2	CV
1.654	2.165	0.354	SBR	G2
1.654	2.165	0.354	TB2	G2
1.654	2.165	0.354	TC	R2
1.654	2.165	0.394	TC	R2
1.654	2.205	0.236	TC	R2
1.654	2.205	0.276	KC	R2
1.654	2.205	0.276	SC	R2
1.654	2.205	0.276	TB2	G2
1.654	2.205	0.276	TB2	C2
1.654	2.205	0.276	TC	R2
1.654	2.205	0.354	TB	G2
1.654	2.205	0.394	TC	R2
1.654	2.213	0.276	KC	R2

Shaft	Bore	Width	Lip Style	Material
1.654	2.244	0.276	TC	R2
1.654	2.250	0.394	TB2	G2
1.654	2.283	0.276	KBR	G2
1.654	2.283	0.276	SB	G2
1.654	2.283	0.276	TC	R2
1.654	2.283	0.315	TB2	G2
1.654	2.283	0.315	TC	R2
1.654	2.283	0.394	SC	R2
1.654	2.283	0.394	TC	R2
1.654	2.283	0.472	DC	R2
1.654	2.283	0.472	TC	R2
1.654	2.362	0.236	TC	R2
1.654	2.362	0.276	TC	R2
1.654	2.362	0.315	TC	R2
1.654	2.362	0.354	SB2	CPA
1.654	2.362	0.354	TB2	GPA
1.654	2.362	0.354	TC	R2
1.654	2.362	0.394	SC	R2
1.654	2.362	0.394	TC	R2
1.654	2.362	0.472	SBR	G2
1.654	2.362	0.472	SC	R2
1.654	2.362	0.472	TC	R2
1.654	2.441	0.236	SC	R2
1.654	2.441	0.256	SB2	PS
1.654	2.441	0.276	SC	R2
1.654	2.441	0.276	TB2	G2
1.654	2.441	0.276	TC	R2
1.654	2.441	0.315	SB2	C2
1.654	2.441	0.315	SC	R2
1.654	2.441	0.315	TC	RPA
1.654	2.441	0.315	TC	R2
1.654	2.441	0.354	TC	R2
1.654	2.441	0.394	SC	R2
1.654	2.441	0.394	TC	R2
1.654	2.441	0.433	DC	RP
1.654	2.441	0.472	TA2	G2
1.654	2.441	0.472	TC	R2
1.654	2.480	0.276	TC	R2
1.654	2.500	0.512	TA2	P2
1.654	2.520	0.236	KC	R2
1.654	2.520	0.276	SC	R2
1.654	2.520	0.315	TC	R2
1.654	2.520	0.394	TB2	G2
1.654	2.520	0.394	TC	R2
1.654	2.520	0.472	DC	RP
1.654	2.559	0.295	TC	R2
1.654	2.559	0.315	SC	R2
1.654	2.559	0.315	TC	R2
1.654	2.559	0.354	TC	R2
1.654	2.559	0.394	SC	R2
1.654	2.559	0.394	TC	R2
1.654	2.559	0.433	DC	RP
1.654	2.559	0.472	SB2	G2
1.654	2.559	0.472	TA2	G3



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Shaft	Bore	Width	Lip Style	Material
1.654	2.559	0.472	TB2	G2
1.654	2.559	0.472	TC	R2
1.654	2.638	0.394	TC	R3
1.654	2.677	0.315	TC	R2
1.654	2.677	0.394	TC	R2
1.654	2.756	0.315	TC	R2
1.654	2.756	0.394	TC	R2
1.654	2.756	0.472	TC	R2
1.654	2.835	0.315	SC	R2
1.654	2.835	0.315	TC	R2
1.654	2.835	0.394	SB2	C2
1.654	2.835	0.394	SBR	C2
1.654	2.835	0.394	SC	R2
1.654	2.835	0.394	TC	R2
1.654	2.835	0.472	TB2	G2
1.654	2.835	0.472	TC	R2
1.654	2.953	0.394	TC	R2
1.654	2.953	0.472	TC	R2
1.654	2.992	0.315	TC	R2
1.654	2.992	0.472	TC	R2
1.654	3.071	0.394	TC	R2
1.654	3.150	0.394	TC	R2
1.654	3.346	0.315	SC	R2
1.654	3.346	0.315	TC	R2
1.656	2.623	0.382	TC	RPA
1.656	2.625	0.374	TB2	G2
1.656	2.686	0.500	SA2	P2
1.656	2.686	0.500	SB2	C2
1.656	2.937	0.374	TB2	P2
1.683	2.441	0.157	KC	R2
1.686	2.686	0.500	SB2	C2
1.687	2.125	0.189	SB	G2
1.687	2.187	0.189	SC	R2
1.687	2.328	0.217	VB2	G2
1.687	2.328	0.311	TB2	P2
1.687	2.374	0.311	TB2	P2
1.687	2.375	0.252	VB	P2
1.687	2.437	0.469	SBR	GS
1.687	2.437	0.469	SBR	CS
1.687	2.500	0.374	SC	R2
1.687	2.500	0.374	TB2	G2
1.687	2.502	0.311	TB2	G2
1.687	2.502	0.311	TB2	P2
1.687	2.502	0.311	TC	R2
1.687	2.561	0.500	TB2	P2
1.687	2.605	0.252	VBR	C2
1.687	2.623	0.374	VB2	G2
1.687	2.623	0.500	SB2	G2
1.687	2.625	0.252	SBR	CPA
1.687	2.625	0.374	TC	R2
1.687	2.625	0.469	TC	R2
1.687	2.686	0.311	TB2	C2
1.687	2.750	0.311	TB2	G2
1.687	2.875	0.311	TB2	G2

Shaft	Bore	Width	Lip Style	Material
1.687	2.875	0.374	TB2	P2
1.687	2.875	0.469	TA2	C2
1.688	2.250	0.312	SC	R2
1.688	2.437	0.315	TB2	P2
1.689	2.441	0.315	TC	R2
1.693	1.969	0.276	TC	R2
1.693	1.969	0.315	TB	G2
1.693	1.969	0.354	KB	G2
1.693	2.047	0.256	TB	G2
1.693	2.047	0.394	SB	G2
1.693	2.087	0.157	VB	G2
1.693	2.087	0.197	SC	RV
1.693	2.126	0.236	TA2	G2
1.693	2.126	0.295	KB	G2
1.693	2.126	0.295	SC	R2
1.693	2.126	0.295	TB	G2
1.693	2.165	0.236	TC	R2
1.693	2.165	0.276	SC	R2
1.693	2.165	0.295	TB	G2
1.693	2.165	0.295	TB	P2
1.693	2.165	0.315	KC	R2
1.693	2.165	0.315	SC	R2
1.693	2.165	0.315	TC	R2
1.693	2.165	0.354	TC	R2
1.693	2.205	0.276	SB	C2
1.693	2.283	0.276	TC	R2
1.693	2.283	0.315	TC	R2
1.693	2.323	0.276	TB2	G2
1.693	2.362	0.315	SB2	G2
1.693	2.362	0.394	SC	R2
1.693	2.441	0.315	SC	R2
1.693	2.441	0.315	TC	R2
1.693	2.441	0.472	TC	R2
1.693	2.480	0.276	TB2	G2
1.693	2.500	0.276	SC	R2
1.693	2.559	0.276	SA2	G2
1.693	2.559	0.276	TBR	C2
1.693	2.559	0.276	TC	R2
1.693	2.559	0.354	TC	RS
1.693	2.559	0.394	TC	R2
1.693	2.561	0.374	TB2	G2
1.693	2.598	0.394	TC	R2
1.693	2.953	0.394	SC	R2
1.703	2.329	0.374	TB2	C2
1.705	2.559	0.472	TC	RS
1.713	2.283	0.276	SB2	CPA
1.713	2.402	0.354	SBR	G2
1.713	2.441	0.256	TC	R2
1.718	2.559	0.508	KB2	P2
1.718	2.561	0.500	VB2	P2
1.718	2.875	0.469	SA2	C2
1.719	2.375	0.374	TC	R2
1.719	2.500	0.311	SB2	C2
1.719	2.500	0.311	TB2	PPA

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Shaft	Bore	Width	Lip Style	Material
1.719	2.561	0.315	TB2	P2
1.719	2.561	0.500	TC	R2
1.719	2.561	0.500	VA2	C2
1.719	2.563	0.500	TB2	C2
1.719	2.625	0.374	TA2	G2
1.732	2.047	0.394	TC	R2
1.732	2.126	0.177	TB	C2
1.732	2.126	0.197	SC	R2
1.732	2.126	0.217	SB	G2
1.732	2.126	0.276	TC	R2
1.732	2.126	0.295	TB	G2
1.732	2.165	0.197	VC	R2
1.732	2.165	0.276	TC	R2
1.732	2.205	0.276	SB2	G2
1.732	2.283	0.276	SB2	G2
1.732	2.283	0.315	TC	R2
1.732	2.362	0.276	TC	R2
1.732	2.362	0.315	SC	R2
1.732	2.362	0.354	TC	R2
1.732	2.362	0.394	SC	R2
1.732	2.441	0.276	TC	R2
1.732	2.441	0.315	TB	G2
1.732	2.441	0.315	TC	R2
1.732	2.441	0.354	TC	R2
1.732	2.441	0.394	SC	R2
1.732	2.441	0.394	TC	R2
1.732	2.559	0.315	SB2	G2
1.732	2.559	0.315	TC	RV
1.732	2.559	0.394	SC	RV
1.732	2.559	0.394	TC	R2
1.732	2.559	0.433	TC	RPA
1.732	2.756	0.472	TC	R2
1.732	2.835	0.315	SC	R2
1.732	2.835	0.315	TB2	G2
1.732	2.835	0.315	TC	R2
1.732	2.835	0.394	SC	R2
1.732	2.953	0.276	TC	R2
1.732	3.150	0.472	SB2	G2
1.732	3.622	0.394	TC	R2
1.734	2.125	0.189	VBR	C2
1.734	2.336	0.252	VA2	G2
1.734	2.336	0.469	TB2	G2
1.745	1.880	0.126	VB	C2
1.749	1.999	0.110	VB	CV
1.749	1.999	0.110	VB	CV
1.750	2.063	0.134	WPB	G4
1.750	2.125	0.189	VBR	G2
1.750	2.125	0.189	WPB	G4
1.750	2.125	0.197	SB	C2
1.750	2.125	0.201	VB	C2
1.750	2.250	0.189	VB2	C2
1.750	2.250	0.189	WPB	G4
1.750	2.250	0.252	WPB	G4
1.750	2.250	0.252	WPB	G4

Shaft	Bore	Width	Lip Style	Material
1.750	2.250	0.311	SB	G2
1.750	2.250	0.311	SB2	PV
1.750	2.250	0.311	SC	R2
1.750	2.250	0.311	WPB	G4
1.750	2.250	0.374	SC	R2
1.750	2.250	0.374	TB	C2
1.750	2.313	0.252	SB	G2
1.750	2.328	0.252	TC	R2
1.750	2.328	0.374	TC	R2
1.750	2.328	0.437	SB2	G2
1.750	2.329	0.374	TB2	C2
1.750	2.356	0.500	TC	R2
1.750	2.374	0.252	WPB	G4
1.750	2.374	0.374	TB2	P2
1.750	2.374	0.484	DBR	CP
1.750	2.375	0.252	SC	R2
1.750	2.375	0.311	TB2	P2
1.750	2.375	0.311	TC	R2
1.750	2.375	0.374	SC	R2
1.750	2.375	0.374	TC	R2
1.750	2.406	0.374	TB2	G2
1.750	2.411	0.378	TB2	PPA
1.750	2.437	0.311	TB2	P2
1.750	2.437	0.311	TC	R2
1.750	2.437	0.374	TB2	G2
1.750	2.437	0.374	WPB	G4
1.750	2.437	0.469	SA2	C2
1.750	2.437	0.469	TB2	P2
1.750	2.441	0.374	TB2	PS
1.750	2.500	0.252	SB	GV
1.750	2.500	0.252	SC	RS
1.750	2.500	0.311	SB2	P2
1.750	2.500	0.311	SC	R2
1.750	2.500	0.311	TB2	C2
1.750	2.500	0.374	SB2	G2
1.750	2.500	0.374	SB2	G2
1.750	2.500	0.374	SC	R2
1.750	2.500	0.484	DC	RP
1.750	2.500	0.500	TA2	P2
1.750	2.500	0.500	TB2	G2
1.750	2.500	0.500	TC	R2
1.750	2.502	0.252	WPC	R4
1.750	2.502	0.311	SB2	G2
1.750	2.502	0.311	TB2	P2
1.750	2.502	0.311	TB2	P2
1.750	2.502	0.311	TB2	PV
1.750	2.502	0.374	SA2	GV
1.750	2.502	0.500	TB2	P2
1.750	2.537	0.189	SC	R2
1.750	2.559	0.394	TB2	G2
1.750	2.561	0.500	TB2	P2
1.750	2.563	0.311	SC	R2
1.750	2.565	0.311	TB2	P2
1.750	2.623	0.252	WPB	G4



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Shaft	Bore	Width	Lip Style	Material
1.750	2.623	0.311	TB2	G2
1.750	2.623	0.500	TB2	P2
1.750	2.625	0.311	TC	R2
1.750	2.625	0.500	TC	R2
1.750	2.681	0.437	TC	R2
1.750	2.686	0.311	SB2	P2
1.750	2.686	0.374	SB2	G2
1.750	2.686	0.500	SB	P2
1.750	2.687	0.374	SC	R2
1.750	2.687	0.437	SB2	C2
1.750	2.687	0.500	SB2	G2
1.750	2.687	0.500	TB2	C2
1.750	2.688	0.437	SC	R2
1.750	2.715	0.437	TC	R2
1.750	2.717	0.437	TB2	P2
1.750	2.750	0.311	SB2	P2
1.750	2.750	0.311	TB2	P2
1.750	2.750	0.311	TC	R2
1.750	2.750	0.374	SC	R2
1.750	2.750	0.374	TB2	G2
1.750	2.750	0.374	TC	R2
1.750	2.750	0.437	TC	R2
1.750	2.750	0.500	SA2	G2
1.750	2.750	0.500	SC	R2
1.750	2.750	0.500	TB	GPA
1.750	2.750	0.500	TB2	G2
1.750	2.875	0.311	SB2	P2
1.750	2.875	0.374	TC	R2
1.750	2.875	0.469	SA2	G2
1.750	2.875	0.500	SB2	C2
1.750	3.000	0.311	TB2	P2
1.750	3.000	0.374	SB2	PPA
1.750	3.000	0.374	TB2	P2
1.750	3.000	0.374	TC	R2
1.750	3.000	0.500	SB2	C2
1.750	3.000	0.500	SC	R2
1.750	3.063	0.488	DBR	C2
1.750	3.125	0.374	TB2	G2
1.750	3.153	0.311	SB2	P2
1.750	3.187	0.500	SC	R2
1.750	3.188	0.311	TC	R2
1.750	3.189	0.311	TB2	G2
1.750	3.189	0.374	TC	R2
1.750	3.189	0.437	TB2	P2
1.750	3.264	0.500	TB2	G2
1.750	3.624	0.500	TB2	G2
1.750	3.937	0.311	TB2	C2
1.752	2.441	0.394	SC	R2
1.752	2.441	0.394	TC	R2
1.752	2.625	0.374	SB2	C2
1.752	2.756	0.374	SC	R2
1.761	2.349	0.252	SB	C2
1.765	2.421	0.374	SC	R2
1.766	2.406	0.469	SB2	G2

Shaft	Bore	Width	Lip Style	Material
1.766	2.953	0.311	TC	R2
1.772	1.969	0.079	VC	R2
1.772	1.969	0.118	VB	G2
1.772	1.969	0.315	VC	R2
1.772	2.047	0.157	TB	G3
1.772	2.047	0.157	TC	R2
1.772	2.047	0.157	VB	G2
1.772	2.047	0.315	TC	R2
1.772	2.087	0.276	TB	G2
1.772	2.126	0.118	VB	C2
1.772	2.126	0.177	TC	R2
1.772	2.165	0.157	KB	C2
1.772	2.165	0.157	SC	R2
1.772	2.165	0.157	VC	R2
1.772	2.165	0.197	TC	R2
1.772	2.165	0.236	TC	R2
1.772	2.165	0.276	SB2	G2
1.772	2.165	0.276	SC	R2
1.772	2.165	0.276	TC	R2
1.772	2.165	0.295	TB	G2
1.772	2.165	0.315	TC	R2
1.772	2.165	0.394	TC	R2
1.772	2.165	0.472	TC	R2
1.772	2.205	0.236	SC	R2
1.772	2.205	0.236	TC	R2
1.772	2.205	0.315	TC	R2
1.772	2.205	0.394	TC	R2
1.772	2.244	0.217	TC	R2
1.772	2.244	0.315	TC	R2
1.772	2.244	0.354	TC	R2
1.772	2.283	0.276	TC	R2
1.772	2.283	0.315	SC	R2
1.772	2.283	0.315	TC	R2
1.772	2.283	0.354	TB2	G2
1.772	2.283	0.394	TC	R2
1.772	2.323	0.276	TC	R2
1.772	2.323	0.394	TB2	C2
1.772	2.323	0.394	TC	R2
1.772	2.328	0.394	TB2	C2
1.772	2.362	0.276	SC	R2
1.772	2.362	0.276	TC	R2
1.772	2.362	0.276	TC	R2
1.772	2.362	0.315	KC	R2
1.772	2.362	0.315	SB2	G2
1.772	2.362	0.315	SC	RV
1.772	2.362	0.315	SC	R2
1.772	2.362	0.315	TC	R2
1.772	2.362	0.354	SBR	G2
1.772	2.362	0.354	TB2	P2
1.772	2.362	0.354	TC	R2
1.772	2.362	0.394	SC	R2
1.772	2.362	0.394	TC	R2
1.772	2.362	0.472	TC	R2
1.772	2.402	0.394	TBR	G2

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Shaft	Bore	Width	Lip Style	Material
1.772	2.441	0.197	SA2	G2
1.772	2.441	0.197	VC	R2
1.772	2.441	0.236	KB2	G2
1.772	2.441	0.236	SC	R2
1.772	2.441	0.276	SC	R2
1.772	2.441	0.276	TB2	G2
1.772	2.441	0.276	TC	R2
1.772	2.441	0.276	VC	R2
1.772	2.441	0.315	DC	R2
1.772	2.441	0.315	SC	R2
1.772	2.441	0.315	TC	R2
1.772	2.441	0.354	TB2	G2
1.772	2.441	0.354	TC	R2
1.772	2.441	0.394	SC	R2
1.772	2.441	0.394	TB	G2
1.772	2.441	0.394	TC	R2
1.772	2.441	0.433	DC	R2
1.772	2.441	0.472	TC	R2
1.772	2.480	0.276	TB2	G2
1.772	2.480	0.276	TC	R2
1.772	2.500	0.394	TB2	G2
1.772	2.500	0.394	TC	R2
1.772	2.520	0.276	TC	R2
1.772	2.520	0.394	TC	R2
1.772	2.520	0.472	SB2	G2
1.772	2.559	0.197	TB2	G2
1.772	2.559	0.197	VB2	G2
1.772	2.559	0.276	SC	R2
1.772	2.559	0.276	TC	R2
1.772	2.559	0.315	DC	R2
1.772	2.559	0.315	SC	R2
1.772	2.559	0.315	TB2	G2
1.772	2.559	0.315	TC	R2
1.772	2.559	0.315	VC	R2
1.772	2.559	0.354	SB2	G2
1.772	2.559	0.354	TC	R2
1.772	2.559	0.394	SC	R2
1.772	2.559	0.394	TA2	G3
1.772	2.559	0.394	TB2	G3
1.772	2.559	0.394	TC	R2
1.772	2.559	0.472	TB2	G2
1.772	2.559	0.472	TC	R2
1.772	2.566	0.382	TC	R2
1.772	2.598	0.394	TC	R2
1.772	2.677	0.236	VC	R2
1.772	2.677	0.276	TC	RPA
1.772	2.677	0.315	SC	R2
1.772	2.677	0.315	TC	R2
1.772	2.677	0.354	TC	R2
1.772	2.677	0.394	SC	R2
1.772	2.677	0.394	TC	R2
1.772	2.677	0.433	TB2	G2
1.772	2.677	0.472	SB2	G2
1.772	2.677	0.472	TB2	G2

Shaft	Bore	Width	Lip Style	Material
1.772	2.677	0.472	TC	R2
1.772	2.677	0.591	TC	R2
1.772	2.689	0.276	TC	RPA
1.772	2.756	0.197	VC	R2
1.772	2.756	0.276	SC	R2
1.772	2.756	0.315	TC	R2
1.772	2.756	0.394	SC	R2
1.772	2.756	0.394	TC	R2
1.772	2.756	0.472	TC	R2
1.772	2.756	0.512	TA2	P2
1.772	2.756	0.591	DBR	GP
1.772	2.835	0.315	SC	R2
1.772	2.835	0.315	TC	R2
1.772	2.835	0.394	SC	R2
1.772	2.835	0.394	TB2	G2
1.772	2.835	0.394	TC	R2
1.772	2.835	0.433	DB2	G2
1.772	2.835	0.472	SC	R2
1.772	2.835	0.472	TB2	G2
1.772	2.835	0.472	TC	R2
1.772	2.843	0.295	KC	R2
1.772	2.894	0.472	TB2	G2
1.772	2.933	0.472	TC	RPA
1.772	2.953	0.276	TC	RV
1.772	2.953	0.315	SC	R2
1.772	2.953	0.315	TC	R2
1.772	2.953	0.394	SC	R2
1.772	2.953	0.394	TC	R2
1.772	2.953	0.472	TB2	G2
1.772	2.953	0.472	TC	R2
1.772	3.071	0.472	TB2	G2
1.772	3.071	0.472	TC	R2
1.772	3.150	0.276	TC	RV
1.772	3.150	0.315	TC	R2
1.772	3.150	0.394	SC	R2
1.772	3.150	0.394	TC	R2
1.772	3.150	0.472	TC	R2
1.772	3.150	0.512	SC	R2
1.772	3.228	0.472	TC	R2
1.772	3.346	0.315	SB2	G2
1.772	3.346	0.315	TC	R2
1.772	3.346	0.394	SC	R2
1.772	3.346	0.394	TC	R2
1.772	3.346	0.472	TC	R2
1.772	3.543	0.394	SC	R2
1.772	3.543	0.394	TC	R2
1.772	3.661	0.236	SC	R2
1.772	3.937	0.394	SC	R2
1.772	3.937	0.394	TC	R2
1.781	2.125	0.252	VB	G2
1.781	2.251	0.374	TC	RPA
1.781	2.502	0.311	SA2	P2
1.781	2.686	0.374	SB2	P2
1.781	2.750	0.311	SB2	C2



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Shaft	Bore	Width	Lip Style	Material
1.793	2.228	0.252	VB	C2
1.794	1.920	0.118	VB	C2
1.803	2.965	0.252	VBR	C2
1.811	1.937	0.126	VB	C2
1.811	2.126	0.354	TC	R2
1.811	2.165	0.217	SB	G2
1.811	2.165	0.413	VB	G2
1.811	2.283	0.197	VB	C2
1.811	2.283	0.276	TC	R2
1.811	2.323	0.354	KB	G2
1.811	2.327	0.472	KC	R2
1.811	2.327	0.472	TB	G2
1.811	2.327	0.472	TC	R2
1.811	2.362	0.276	TC	R2
1.811	2.362	0.394	TC	R2
1.811	2.441	0.276	KB2	G2
1.811	2.441	0.276	TB	G2
1.811	2.441	0.315	TC	R2
1.811	2.559	0.354	TC	R2
1.811	2.559	0.394	SC	R2
1.811	2.579	0.276	TC	R2
1.811	2.677	0.315	TC	R2
1.811	2.756	0.315	TC	R2
1.811	2.835	0.394	SC	R2
1.813	2.327	0.437	VB2	P2
1.813	2.623	0.374	TB2	P2
1.813	2.623	0.500	SB2	P2
1.813	2.750	0.374	TB2	P2
1.813	2.750	0.500	SA2	G2
1.813	2.875	0.374	TB2	P2
1.813	3.000	0.374	SC	R2
1.813	3.000	0.374	TB2	C2
1.821	2.623	0.252	VB	G2
1.831	2.362	0.354	SC	R2
1.837	2.671	0.374	TB2	PPA
1.843	2.750	0.374	TB2	P2
1.843	2.750	0.500	TB2	PPA
1.844	2.376	0.374	SB	G2
1.844	2.623	0.374	TB2	P2
1.850	2.205	0.276	SC	R2
1.850	2.205	0.276	TB	G2
1.850	2.244	0.276	TC	R2
1.850	2.283	0.197	TC	R2
1.850	2.362	0.276	TC	R2
1.850	2.362	0.472	TC	R2
1.850	2.409	0.217	SC	R2
1.850	2.409	0.217	TC	R2
1.850	2.441	0.236	TC	R2
1.850	2.441	0.276	TC	R2
1.850	2.441	0.315	SC	R2
1.850	2.441	0.315	TC	R2
1.850	2.441	0.315	TC	R2
1.850	2.441	0.354	SB2	G2
1.850	2.559	0.315	SC	R2
1.850	2.559	0.315	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.850	2.559	0.394	TC	R2
1.850	2.559	0.472	TA2	G2
1.850	2.677	0.394	TC	R2
1.850	2.756	0.394	TC	R2
1.850	3.307	0.394	TC	R2
1.850	3.465	0.472	TC	R2
1.859	2.500	0.252	TC	R2
1.870	2.323	0.472	KC	R2
1.870	2.781	0.354	TC	R2
1.870	3.744	0.437	SA2	GPA
1.872	2.057	0.126	VBR	C2
1.873	2.060	0.187	VB	C2
1.875	2.125	0.126	VC	R2
1.875	2.250	0.189	SB	G2
1.875	2.250	0.189	WPB	G4
1.875	2.315	0.205	TBR	C2
1.875	2.375	0.252	SC	R2
1.875	2.394	0.252	SC	R2
1.875	2.398	0.252	TC	R2
1.875	2.400	0.240	VA2	G2
1.875	2.402	0.252	SB2	P2
1.875	2.402	0.276	VC	R2
1.875	2.437	0.311	SC	R2
1.875	2.471	0.311	TC	R2
1.875	2.471	0.437	TB2	C2
1.875	2.500	0.252	WPB	G4
1.875	2.500	0.311	SB2	PPA
1.875	2.500	0.374	SC	R2
1.875	2.500	0.437	SA2	CPA
1.875	2.500	0.437	SB2	P2
1.875	2.502	0.311	TB2	P2
1.875	2.502	0.315	SC	R2
1.875	2.502	0.374	SB2	PPA
1.875	2.535	0.283	SB	CV
1.875	2.553	0.283	SBR	C2
1.875	2.563	0.311	SC	R2
1.875	2.563	0.374	TB2	P2
1.875	2.623	0.311	TB2	P2
1.875	2.623	0.311	TC	R2
1.875	2.623	0.374	SB2	PS
1.875	2.623	0.500	TA2	P2
1.875	2.625	0.374	TC	R2
1.875	2.625	0.437	TC	RS
1.875	2.625	0.450	SB	GPA
1.875	2.686	0.374	TB2	G2
1.875	2.687	0.311	SB2	P2
1.875	2.721	0.268	VB	G2
1.875	2.750	0.311	TB2	G2
1.875	2.750	0.311	TB2	C2
1.875	2.750	0.311	TC	R2
1.875	2.750	0.374	SC	R2
1.875	2.750	0.488	DBR	C2
1.875	2.758	0.469	DB	PPA
1.875	2.782	0.252	VBR	C2

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Shaft	Bore	Width	Lip Style	Material
1.875	2.782	0.500	TA2	P2
1.875	2.835	0.374	TB2	P2
1.875	2.835	0.469	TB2	C2
1.875	2.875	0.311	TB2	G2
1.875	2.875	0.374	SC	R2
1.875	2.875	0.374	TC	R2
1.875	2.875	0.469	SA2	P2
1.875	2.965	0.232	VB	C2
1.875	2.996	0.500	SA2	P2
1.875	3.000	0.311	TB2	G2
1.875	3.000	0.374	SB2	PS
1.875	3.000	0.374	TB2	P2
1.875	3.000	0.500	SC	R2
1.875	3.000	0.500	TC	R2
1.875	3.061	0.313	TB2	P2
1.875	3.125	0.500	TB2	G2
1.875	3.125	0.500	TC	R2
1.875	3.251	0.500	SA2	P2
1.875	3.543	0.315	TC	R2
1.880	2.398	0.252	SBR	C2
1.890	2.283	0.157	TC	R2
1.890	2.283	0.157	VC	R2
1.890	2.283	0.276	TC	R2
1.890	2.283	0.394	TB	G2
1.890	2.323	0.236	TC	R2
1.890	2.362	0.276	TC	R2
1.890	2.362	0.315	TB	G2
1.890	2.362	0.315	TC	R2
1.890	2.362	0.394	TB	G2
1.890	2.362	0.394	TC	R2
1.890	2.441	0.236	KC	R2
1.890	2.441	0.276	TA2	G2
1.890	2.441	0.276	TB2	G2
1.890	2.441	0.276	TC	R2
1.890	2.441	0.315	SB2	G2
1.890	2.441	0.315	SC	RS
1.890	2.441	0.315	SC	R2
1.890	2.441	0.315	TA2	G2
1.890	2.441	0.315	TB2	G2
1.890	2.441	0.315	TC	R2
1.890	2.441	0.354	SB	G2
1.890	2.441	0.354	TB2	G2
1.890	2.441	0.354	TC	R2
1.890	2.441	0.394	TC	R2
1.890	2.441	0.472	TC	R2
1.890	2.480	0.354	TB2	G2
1.890	2.500	0.394	TB2	P2
1.890	2.500	0.394	TC	R3
1.890	2.520	0.276	SC	R2
1.890	2.520	0.472	TB2	CH
1.890	2.559	0.276	SC	R2
1.890	2.559	0.276	TC	R2
1.890	2.559	0.315	TBR	C2
1.890	2.559	0.315	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.890	2.559	0.354	TB	G2
1.890	2.559	0.354	TB2	G2
1.890	2.559	0.354	TC	R2
1.890	2.559	0.394	SC	R2
1.890	2.559	0.394	TC	R2
1.890	2.559	0.472	TA2	G2
1.890	2.559	0.472	TC	R2
1.890	2.638	0.433	TC	R2
1.890	2.677	0.315	TC	R2
1.890	2.677	0.394	SC	R2
1.890	2.677	0.394	TC	R2
1.890	2.677	0.472	TC	R2
1.890	2.677	0.551	TC	R2
1.890	2.717	0.394	TB2	G2
1.890	2.756	0.276	TC	R2
1.890	2.756	0.354	TC	R2
1.890	2.756	0.374	TB2	G2
1.890	2.756	0.394	TC	R2
1.890	2.756	0.472	SB2	GPA
1.890	2.756	0.472	TB2	G2
1.890	2.756	0.472	TC	R2
1.890	2.756	0.512	TB2	P2
1.890	2.776	0.394	TC	R2
1.890	2.835	0.276	SC	R2
1.890	2.835	0.276	TB2	P2
1.890	2.835	0.276	TC	R2
1.890	2.835	0.315	SC	R2
1.890	2.835	0.315	TC	R2
1.890	2.835	0.354	TC	R2
1.890	2.835	0.394	DC	RP
1.890	2.835	0.394	SC	R2
1.890	2.835	0.394	SC	R2
1.890	2.835	0.394	TC	R2
1.890	2.835	0.433	DC	RP
1.890	2.835	0.472	TC	R2
1.890	2.835	0.591	DC	R2
1.890	2.854	0.394	TC	R2
1.890	2.874	0.276	TB2	G2
1.890	2.874	0.315	TC	R2
1.890	2.913	0.394	TC	R2
1.890	2.913	0.433	TB2	G2
1.890	2.913	0.472	TC	R2
1.890	2.953	0.394	TC	R2
1.890	2.953	0.472	TC	R2
1.890	2.992	0.394	TC	R2
1.890	2.992	0.472	TC	R2
1.890	3.150	0.394	SC	R2
1.890	3.150	0.394	TC	R2
1.890	3.228	0.315	SB2	G2
1.890	3.228	0.394	TC	R2
1.890	3.346	0.394	SC	R2
1.890	3.346	0.394	TC	R2
1.890	3.543	0.315	SB2	G2
1.890	3.543	0.512	TC	R2



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Shaft	Bore	Width	Lip Style	Material
1.890	3.740	0.315	TC	RH
1.893	2.434	0.252	SBR	G2
1.900	2.479	0.350	TB2	P2
1.906	2.500	0.374	TC	R2
1.906	3.000	0.500	SB2	G2
1.906	3.000	0.500	SC	R2
1.921	2.046	0.126	VB	C2
1.929	2.205	0.354	KB	G2
1.929	2.362	0.276	TC	R2
1.929	2.441	0.236	TC	R2
1.929	2.520	0.315	TC	R2
1.929	2.559	0.354	SC	RPA
1.929	2.559	0.394	TC	R2
1.929	2.677	0.394	TC	RPA
1.929	2.835	0.339	TBR	GV
1.929	2.992	0.591	TC	R2
1.929	3.228	0.472	TC	RS
1.929	3.622	0.394	TC	R2
1.933	2.687	0.500	SB	G2
1.937	2.250	0.500	TB	G2
1.937	2.437	0.252	SB2	G2
1.937	2.437	0.252	TB2	P2
1.937	2.470	0.315	TB	GV
1.937	2.500	0.374	SA2	P2
1.937	2.500	0.374	SC	R2
1.937	2.500	0.374	TC	R2
1.937	2.502	0.374	SB	P2
1.937	2.502	0.374	TB2	P2
1.937	2.502	0.374	TC	R2
1.937	2.563	0.327	TC	R2
1.937	2.623	0.311	TB2	G2
1.937	2.623	0.311	TC	R2
1.937	2.686	0.303	SB2	PPA
1.937	2.686	0.311	TB2	GV
1.937	2.687	0.500	SBR	CS
1.937	2.750	0.311	SB2	PV
1.937	2.750	0.311	TB2	G2
1.937	2.750	0.374	DC	R2
1.937	2.750	0.374	SC	R2
1.937	2.750	0.374	TB2	C2
1.937	2.750	0.374	TC	R2
1.937	2.813	0.374	TC	R2
1.937	2.875	0.311	SA2	G2
1.937	2.884	0.311	TB2	PPA
1.937	3.000	0.311	TB2	C2
1.937	3.000	0.311	TB2	P2
1.937	3.000	0.500	SBR	C2
1.937	3.061	0.374	TB2	C2
1.937	3.063	0.500	TBR	CPA
1.937	3.187	0.437	TC	R2
1.937	3.750	0.500	SA2	P2
1.938	2.502	0.280	VA2	G2
1.938	2.563	0.311	SB2	P2
1.938	2.687	0.500	SA2	P2

Shaft	Bore	Width	Lip Style	Material
1.938	2.688	0.374	SB2	GS
1.938	2.748	0.311	TC	R2
1.938	2.997	0.500	SA2	P2
1.938	3.062	0.311	SB2	P2
1.938	3.125	0.500	SB2	P2
1.938	3.189	0.433	SA2	P2
1.969	2.165	0.157	VB	C2
1.969	2.283	0.157	KB	G2
1.969	2.283	0.157	TC	R2
1.969	2.283	0.157	VB	G2
1.969	2.323	0.157	KC	R2
1.969	2.362	0.157	TC	R2
1.969	2.362	0.197	VB2	G2
1.969	2.362	0.236	KC	R2
1.969	2.362	0.276	TC	R2
1.969	2.362	0.315	SC	R2
1.969	2.362	0.315	TC	R2
1.969	2.362	0.394	TC	R2
1.969	2.362	0.472	TC	R2
1.969	2.382	0.197	TC	R2
1.969	2.441	0.197	WPC	R4
1.969	2.441	0.276	SB	G2
1.969	2.441	0.276	SC	R2
1.969	2.441	0.276	TC	R2
1.969	2.441	0.315	SC	R2
1.969	2.441	0.315	TB	G2
1.969	2.441	0.354	TB	G2
1.969	2.441	0.354	TC	R2
1.969	2.441	0.394	TB	G2
1.969	2.441	0.394	TC	R2
1.969	2.441	0.472	TC	R2
1.969	2.480	0.236	TB	G2
1.969	2.480	0.315	TB	G2
1.969	2.480	0.315	TC	R2
1.969	2.520	0.256	TC	R2
1.969	2.520	0.315	TC	R2
1.969	2.520	0.354	TC	R2
1.969	2.520	0.394	TC	R2
1.969	2.559	0.315	DC	RV
1.969	2.559	0.315	KC	R2
1.969	2.559	0.315	SB	G2
1.969	2.559	0.315	SC	RV
1.969	2.559	0.315	SC	RPA
1.969	2.559	0.315	SC	R2
1.969	2.559	0.315	SC	R2
1.969	2.559	0.315	TA2	P3
1.969	2.559	0.315	TB	G2
1.969	2.559	0.315	TC	R2
1.969	2.559	0.315	TC	R2
1.969	2.559	0.354	TB	G2
1.969	2.559	0.354	TC	R2
1.969	2.559	0.394	SA2	G2
1.969	2.559	0.394	SC	R2
1.969	2.559	0.394	TB	G2

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Shaft	Bore	Width	Lip Style	Material
1.969	2.559	0.394	TC	R2
1.969	2.559	0.472	TC	R2
1.969	2.598	0.236	TC	R2
1.969	2.598	0.315	SC	R2
1.969	2.618	0.374	TB2	P2
1.969	2.623	0.311	TB2	P2
1.969	2.638	0.354	TB	G2
1.969	2.638	0.354	TC	R2
1.969	2.638	0.394	TC	R2
1.969	2.638	0.433	TC	R2
1.969	2.677	0.276	TB2	G2
1.969	2.677	0.276	TC	R2
1.969	2.677	0.276	VC	R2
1.969	2.677	0.315	DC	R2
1.969	2.677	0.315	SC	R2
1.969	2.677	0.315	TA2	G2
1.969	2.677	0.315	TC	R2
1.969	2.677	0.354	TA2	G2
1.969	2.677	0.354	TB2	G2
1.969	2.677	0.354	TC	R2
1.969	2.677	0.394	SC	R2
1.969	2.677	0.394	TC	R2
1.969	2.677	0.472	TC	R2
1.969	2.717	0.394	TB2	C2
1.969	2.756	0.276	TA2	G2
1.969	2.756	0.276	TB2	G2
1.969	2.756	0.276	TC	R2
1.969	2.756	0.315	SA2	G2
1.969	2.756	0.315	SC	RV
1.969	2.756	0.315	SC	R2
1.969	2.756	0.315	TC	R2
1.969	2.756	0.354	TB2	G2
1.969	2.756	0.354	TBR	G2
1.969	2.756	0.354	TC	R2
1.969	2.756	0.394	SC	R2
1.969	2.756	0.394	TB2	G2
1.969	2.756	0.394	TC	R2
1.969	2.756	0.472	SC	R2
1.969	2.756	0.472	TB2	G2
1.969	2.756	0.472	TC	R2
1.969	2.756	0.512	TB	G3
1.969	2.756	0.512	TC	R2
1.969	2.756	0.531	TB	G2
1.969	2.835	0.197	VC	R2
1.969	2.835	0.276	TC	R2
1.969	2.835	0.315	SC	R2
1.969	2.835	0.315	TA2	P2
1.969	2.835	0.315	TB2	C2
1.969	2.835	0.315	TC	R2
1.969	2.835	0.354	SB2	GPA
1.969	2.835	0.354	TC	R2
1.969	2.835	0.394	SC	R2
1.969	2.835	0.394	TB2	G2
1.969	2.835	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
1.969	2.835	0.472	DC	RP
1.969	2.835	0.472	SB2	G2
1.969	2.835	0.472	SC	R2
1.969	2.835	0.472	TB2	G2
1.969	2.835	0.472	TC	R2
1.969	2.835	0.551	TC	R2
1.969	2.874	0.354	TA2	G2
1.969	2.874	0.354	TC	R2
1.969	2.875	0.469	SA2	C2
1.969	2.953	0.315	TC	R2
1.969	2.953	0.354	TA2	G2
1.969	2.953	0.354	TB	G2
1.969	2.953	0.394	SC	R2
1.969	2.953	0.394	TC	R2
1.969	2.953	0.472	TC	R2
1.969	2.992	0.394	TC	R2
1.969	2.992	0.472	TC	R2
1.969	2.992	0.512	TA2	P2
1.969	3.071	0.315	TC	R2
1.969	3.071	0.472	TC	R2
1.969	3.150	0.315	SB2	G2
1.969	3.150	0.315	SC	R2
1.969	3.150	0.315	TC	R2
1.969	3.150	0.394	SB2	G2
1.969	3.150	0.394	SC	R2
1.969	3.150	0.394	TB2	G2
1.969	3.150	0.394	TC	R2
1.969	3.150	0.472	TC	R2
1.969	3.150	0.512	SA2	G2
1.969	3.150	0.512	TB2	G2
1.969	3.150	0.512	TC	R2
1.969	3.189	0.472	TC	R2
1.969	3.189	0.512	TB2	G2
1.969	3.228	0.472	TC	R2
1.969	3.346	0.315	TC	R2
1.969	3.346	0.394	SC	R2
1.969	3.346	0.394	TC	R2
1.969	3.346	0.472	TC	R2
1.969	3.425	0.512	TC	R2
1.969	3.543	0.315	TC	R2
1.969	3.543	0.394	SC	R2
1.969	3.543	0.394	TB2	G2
1.969	3.543	0.394	TC	RV
1.969	3.543	0.394	TC	R2
1.969	3.543	0.472	TC	R2
1.969	3.543	0.512	TA2	G2
1.969	3.543	0.512	TC	R2
1.969	3.622	0.394	TC	R2
1.969	3.858	0.236	SC	R2
1.969	3.937	0.394	TC	R2
1.969	3.937	0.512	TC	R3
1.969	4.134	0.394	TC	R2
1.969	4.331	0.394	SC	R2
1.969	4.331	0.394	TC	RV



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Shaft	Bore	Width	Lip Style	Material
1.969	4.921	0.394	TC	R2
1.969	5.118	0.591	TC	R2
1.983	2.686	0.311	SB2	P2
1.988	2.303	0.177	VB	G2
1.988	2.441	0.354	TC	R2
1.991	4.387	0.189	VC	R2
1.996	3.345	0.374	TBR	G2
1.999	2.125	0.126	VB	C2
2.000	2.371	0.252	TB	P2
2.000	2.375	0.189	VB	G2
2.000	2.375	0.189	WPB	G4
2.000	2.375	0.252	SC	R2
2.000	2.375	0.252	TB	P2
2.000	2.478	0.563	TBR	P2
2.000	2.478	0.563	TBR	P2
2.000	2.500	0.252	SB2	P2
2.000	2.500	0.252	SC	R2
2.000	2.500	0.252	WPB	G4
2.000	2.500	0.311	TC	R2
2.000	2.500	0.469	SA2	PS
2.000	2.500	0.500	SA2	C2
2.000	2.502	0.252	TB2	P2
2.000	2.502	0.311	SB2	PPA
2.000	2.562	0.500	VB	G2
2.000	2.563	0.228	VB2	C2
2.000	2.563	0.528	SBR	GPA
2.000	2.569	0.374	KB2	G2
2.000	2.623	0.252	WPB	G4
2.000	2.623	0.311	SA2	P2
2.000	2.623	0.311	SB2	P2
2.000	2.623	0.311	TB2	P2
2.000	2.623	0.311	TC	R2
2.000	2.625	0.252	KB2	G2
2.000	2.625	0.252	VB2	C2
2.000	2.625	0.252	WPB	G4
2.000	2.625	0.252	WPB	G4
2.000	2.625	0.311	TB2	C2
2.000	2.686	0.252	WPB	G4
2.000	2.686	0.374	TB2	P2
2.000	2.686	0.437	TB2	P2
2.000	2.686	0.500	SA2	C2
2.000	2.686	0.500	TA2	G2
2.000	2.686	0.500	TB2	P2
2.000	2.687	0.307	SB2	PS
2.000	2.700	0.260	VC	R2
2.000	2.717	0.563	TC	R2
2.000	2.750	0.311	TB2	P2
2.000	2.750	0.311	TC	R2
2.000	2.750	0.374	DC	R2
2.000	2.750	0.374	SBR	CS
2.000	2.750	0.374	SC	RV
2.000	2.750	0.374	SC	R2
2.000	2.750	0.500	SA2	G2
2.000	2.750	0.500	SC	R2

Shaft	Bore	Width	Lip Style	Material
2.000	2.750	0.500	TC	R2
2.000	2.752	0.189	VB2	P2
2.000	2.833	0.469	SA2	P2
2.000	2.875	0.311	TB2	P2
2.000	2.875	0.374	SC	R2
2.000	2.875	0.469	SA2	G2
2.000	2.875	0.469	TA2	P2
2.000	2.875	0.500	SC	R2
2.000	2.880	0.374	TB2	P2
2.000	2.890	0.563	TB2	P2
2.000	2.906	0.311	SC	R2
2.000	2.996	0.500	TA2	PPA
2.000	2.997	0.374	SA2	P2
2.000	2.997	0.374	TC	R2
2.000	2.997	0.437	TB2	P2
2.000	3.000	0.311	TB2	P2
2.000	3.000	0.311	TC	R2
2.000	3.000	0.374	TC	R2
2.000	3.000	0.500	SC	R2
2.000	3.000	0.500	TB2	C2
2.000	3.000	0.500	TC	R2
2.000	3.061	0.374	TB2	P2
2.000	3.125	0.374	SC	R2
2.000	3.148	0.252	VBR	C2
2.000	3.150	0.374	SB2	P2
2.000	3.189	0.374	TB2	P2
2.000	3.250	0.374	SC	R2
2.000	3.260	0.625	VC	R2
2.000	3.265	0.441	TB2	P2
2.000	3.375	0.437	TC	R2
2.000	3.500	0.500	SC	R2
2.000	3.543	0.437	SA2	C2
2.000	3.750	0.441	TB2	P2
2.000	4.000	0.437	TB2	C2
2.000	4.003	0.437	SA2	P2
2.008	2.441	0.276	SB	G2
2.008	2.441	0.276	SC	R2
2.008	2.480	0.236	KB	G2
2.008	2.480	0.236	KBR	G2
2.008	2.480	0.315	TB2	C2
2.008	2.480	0.335	KBR	C2
2.008	2.559	0.276	TBR	G2
2.008	2.559	0.512	TC	R2
2.008	2.598	0.256	SC	RPA
2.008	2.618	0.394	TC	R2
2.008	2.835	0.394	TB2	G2
2.010	2.650	0.362	KB2	C2
2.031	2.650	0.185	SC	R2
2.031	2.888	0.563	TC	R2
2.046	2.171	0.126	VB	C2
2.047	2.362	0.276	TC	R2
2.047	2.441	0.276	TC	R2
2.047	2.441	0.315	SC	R2
2.047	2.441	0.315	TC	R2

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Shaft	Bore	Width	Lip Style	Material
2.047	2.441	0.354	TB2	G2
2.047	2.441	0.354	TC	R2
2.047	2.441	0.394	TC	R2
2.047	2.480	0.236	TC	R2
2.047	2.480	0.315	TB2	C2
2.047	2.480	0.315	TC	R2
2.047	2.480	0.354	TBR	G2
2.047	2.520	0.354	TBR	G2
2.047	2.520	0.354	TC	R2
2.047	2.559	0.315	SC	R2
2.047	2.559	0.315	TC	R2
2.047	2.559	0.354	TB	G2
2.047	2.559	0.354	TC	R2
2.047	2.559	0.394	TC	R2
2.047	2.598	0.236	SC	RPA
2.047	2.598	0.354	SC	RPA
2.047	2.677	0.236	VB2	C2
2.047	2.677	0.276	TC	R2
2.047	2.677	0.315	SC	R2
2.047	2.677	0.315	TB2	G2
2.047	2.677	0.315	TC	R2
2.047	2.677	0.394	SC	R2
2.047	2.677	0.394	TC	R2
2.047	2.677	0.531	TB2	C2
2.047	2.717	0.394	SC	R2
2.047	2.756	0.354	SB2	G2
2.047	2.756	0.354	TB2	G2
2.047	2.756	0.354	TBR	C2
2.047	2.756	0.354	TC	R2
2.047	2.756	0.394	TB2	G2
2.047	2.756	0.394	TBR	G2
2.047	2.756	0.394	TC	R2
2.047	2.756	0.512	TC	R2
2.047	2.795	0.315	TC	R2
2.047	2.835	0.276	TB2	G2
2.047	2.835	0.315	SC	R2
2.047	2.835	0.315	TB2	G2
2.047	2.835	0.315	TC	R2
2.047	2.835	0.315	TC	R2
2.047	2.835	0.472	SA2	G2
2.047	2.835	0.472	TB2	G2
2.047	2.835	0.472	TC	R2
2.047	2.874	0.394	TB2	G2
2.047	2.953	0.315	SC	R2
2.047	2.953	0.315	TC	R2
2.047	2.953	0.394	TC	R2
2.047	2.953	0.472	DC	R2
2.047	2.953	0.472	SB2	G2
2.047	2.953	0.472	SC	R2
2.047	2.953	0.472	TB2	G2
2.047	2.953	0.472	TC	R2
2.047	2.992	0.354	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.047	3.071	0.354	SC	RPA
2.047	3.071	0.394	TC	R2
2.047	3.150	0.315	SC	R2
2.047	3.150	0.315	TC	R2
2.047	3.150	0.394	SC	R2
2.047	3.150	0.394	TC	R2
2.047	3.150	0.472	TC	R2
2.047	3.150	0.512	TC	R2
2.047	3.228	0.315	TB2	G2
2.047	3.346	0.354	TC	R2
2.047	3.346	0.394	SC	R2
2.047	3.346	0.394	TC	R2
2.047	3.346	0.512	SC	R2
2.047	3.346	0.512	TC	R2
2.047	3.543	0.315	KC	R2
2.047	3.543	0.394	TC	R2
2.063	2.750	0.500	SA2	G2
2.063	2.842	0.449	SA2	P2
2.063	3.000	0.311	SB2	G2
2.063	3.000	0.311	VB2	C2
2.063	3.000	0.374	SC	R2
2.063	3.000	0.374	TB2	P2
2.063	3.187	0.453	SC	R2
2.063	3.189	0.437	SA2	P2
2.063	3.251	0.500	SA2	P2
2.063	3.251	0.500	SA2	P2
2.063	3.371	0.469	SA2	P2
2.087	2.559	0.512	TB	G2
2.087	2.606	0.276	KC	R2
2.087	2.638	0.354	TC	R2
2.087	2.677	0.394	TC	R2
2.087	2.685	0.276	KC	R2
2.087	2.685	0.276	TC	R2
2.087	2.795	0.354	SC	R2
2.087	2.835	0.394	TC	R2
2.087	2.874	0.394	TC	R2
2.087	2.953	0.472	SA2	G2
2.087	3.150	0.512	TC	R2
2.087	3.346	0.315	SC	R2
2.106	3.114	0.157	VBR	C2
2.106	3.114	0.276	SBR	C2
2.106	3.543	0.236	SC	R2
2.106	3.543	0.236	VC	R2
2.125	2.500	0.189	WPB	G4
2.125	2.561	0.492	TB	P2
2.125	2.750	0.311	SC	R2
2.125	2.750	0.311	TB2	P2
2.125	2.750	0.311	TC	R2
2.125	2.750	0.374	TB2	P2
2.125	2.750	0.437	TB2	P2
2.125	2.750	0.500	TB2	P2
2.125	2.758	0.437	TB	P2
2.125	2.763	0.252	SB2	P2
2.125	2.815	0.283	SBR	C2



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Shaft	Bore	Width	Lip Style	Material
2.125	2.871	0.358	TC	R2
2.125	2.875	0.252	VB	G2
2.125	2.875	0.374	SB2	G2
2.125	2.875	0.374	SBR	CS
2.125	2.875	0.374	SC	R2
2.125	2.875	0.374	TB2	P2
2.125	2.875	0.374	TC	R2
2.125	2.875	0.437	SA2	G2
2.125	2.875	0.437	SB2	G2
2.125	2.875	0.437	TA2	CPA
2.125	2.875	0.437	TB2	G2
2.125	2.891	0.252	VB2	C2
2.125	2.891	0.252	VC	R2
2.125	2.996	0.437	SA2	G2
2.125	2.997	0.500	TA2	P2
2.125	3.000	0.311	KB2	P2
2.125	3.000	0.374	SB	P2
2.125	3.000	0.374	SB2	PV
2.125	3.000	0.374	SC	R2
2.125	3.000	0.374	TB2	P2
2.125	3.000	0.374	TC	R2
2.125	3.000	0.437	TA2	P2
2.125	3.000	0.500	SB	G2
2.125	3.000	0.500	SC	R2
2.125	3.000	0.500	TC	R2
2.125	3.061	0.374	TB2	P2
2.125	3.061	0.500	SA2	P2
2.125	3.061	0.500	TA2	G2
2.125	3.061	0.500	TB2	PPA
2.125	3.063	0.500	SB2	G2
2.125	3.063	0.500	TA2	P2
2.125	3.063	0.500	TC	R2
2.125	3.125	0.311	SBR	CS
2.125	3.125	0.311	TC	R2
2.125	3.125	0.374	SC	R2
2.125	3.125	0.374	TA2	PPA
2.125	3.125	0.469	TA2	P2
2.125	3.125	0.469	TC	R2
2.125	3.125	0.500	SA2	C2
2.125	3.146	0.500	VBR	C2
2.125	3.149	0.374	TB2	C2
2.125	3.187	0.374	SC	R2
2.125	3.189	0.437	SA2	P2
2.125	3.189	0.469	TB2	G2
2.125	3.350	0.437	SA2	P2
2.125	3.371	0.311	VB2	P2
2.125	3.371	0.374	TA2	P2
2.125	3.371	0.374	TB2	C2
2.125	3.371	0.469	TA2	P2
2.125	3.372	0.437	TB2	G2
2.125	3.372	0.437	TC	R2
2.125	3.375	0.311	TB2	G2
2.125	3.375	0.375	TC	R2
2.125	3.543	0.500	TA2	P2

Shaft	Bore	Width	Lip Style	Material
2.125	3.623	0.469	TB2	PPA
2.125	3.625	0.374	TC	R2
2.125	4.000	0.500	TB2	G2
2.126	2.500	0.197	TB	G3
2.126	2.520	0.354	TBR	G2
2.126	2.520	0.354	TC	R2
2.126	2.559	0.315	SB2	P2
2.126	2.559	0.354	TC	R2
2.126	2.559	0.394	TC	R2
2.126	2.559	0.512	TB	G2
2.126	2.559	0.512	TBR	G2
2.126	2.559	0.512	TC	R2
2.126	2.598	0.276	TC	R2
2.126	2.677	0.354	TC	R2
2.126	2.677	0.394	TC	R2
2.126	2.756	0.354	TC	R2
2.126	2.756	0.374	TB2	P2
2.126	2.756	0.394	TC	R2
2.126	2.795	0.315	TC	R2
2.126	2.835	0.394	TC	R2
2.126	2.854	0.354	TB2	C2
2.126	2.854	0.354	TC	R2
2.126	2.874	0.315	TC	R2
2.126	2.874	0.394	TB2	G2
2.126	2.874	0.394	TC	R2
2.126	2.874	0.484	SC	RV
2.126	2.886	0.394	TB	G2
2.126	2.913	0.394	TC	R2
2.126	2.953	0.394	TC	R2
2.126	2.992	0.315	TC	R2
2.126	2.992	0.472	SC	R2
2.126	2.992	0.472	TC	R2
2.126	2.992	0.551	DC	R2
2.126	3.071	0.472	TC	R2
2.126	3.150	0.394	TC	R2
2.126	3.189	0.394	TB2	C2
2.126	3.189	0.394	TC	R2
2.126	3.189	0.433	SC	R2
2.126	3.228	0.433	TC	R2
2.126	3.346	0.315	SC	R2
2.126	3.346	0.315	TC	R2
2.126	3.346	0.394	TC	R2
2.126	3.543	0.315	TC	R2
2.126	3.622	0.512	SA2	PPA
2.146	2.756	0.315	TC	R2
2.156	2.750	0.217	KC	R2
2.156	2.875	0.374	SC	R2
2.165	2.480	0.197	SC	R2
2.165	2.559	0.315	TC	R2
2.165	2.559	0.394	TC	R2
2.165	2.638	0.197	TB	G2
2.165	2.677	0.236	TC	R2
2.165	2.677	0.236	VB2	G2
2.165	2.677	0.315	SC	R2

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Shaft	Bore	Width	Lip Style	Material
2.165	2.677	0.315	TC	R2
2.165	2.677	0.394	TC	R2
2.165	2.677	0.472	DC	R2
2.165	2.677	0.472	TC	R2
2.165	2.756	0.315	SC	R2
2.165	2.756	0.315	TB2	C2
2.165	2.756	0.315	TC	R2
2.165	2.756	0.354	TB	G2
2.165	2.756	0.354	TC	R2
2.165	2.756	0.394	SC	R2
2.165	2.756	0.394	TC	R2
2.165	2.756	0.472	TC	R2
2.165	2.756	0.591	DC	R2
2.165	2.835	0.276	SC	R2
2.165	2.835	0.315	SC	R2
2.165	2.835	0.315	TC	R2
2.165	2.835	0.354	TB	G2
2.165	2.835	0.354	TC	R2
2.165	2.835	0.394	SC	R2
2.165	2.835	0.394	TB	G2
2.165	2.835	0.394	TC	R2
2.165	2.835	0.472	TB2	G2
2.165	2.835	0.472	TC	R2
2.165	2.874	0.236	TC	R2
2.165	2.874	0.394	TC	R2
2.165	2.880	0.394	TB	G2
2.165	2.953	0.276	SC	RV
2.165	2.953	0.315	TC	R2
2.165	2.953	0.354	TC	R2
2.165	2.953	0.394	SC	R2
2.165	2.953	0.394	TB2	G3
2.165	2.953	0.394	TC	R2
2.165	2.953	0.472	TC	R2
2.165	2.992	0.394	TC	R3
2.165	2.992	0.472	SB2	G2
2.165	2.992	0.472	TC	R2
2.165	3.031	0.315	TC	R2
2.165	3.031	0.354	TB2	G2
2.165	3.071	0.276	TC	R2
2.165	3.071	0.354	TC	R2
2.165	3.071	0.472	DC	RV
2.165	3.071	0.472	SA2	P3
2.165	3.071	0.472	SB2	G2
2.165	3.071	0.472	SC	R2
2.165	3.071	0.472	TB2	G2
2.165	3.071	0.472	TC	R2
2.165	3.071	0.709	DB	GP
2.165	3.075	0.256	TC	R2
2.165	3.150	0.315	SC	R2
2.165	3.150	0.315	TB2	GV
2.165	3.150	0.315	TC	R2
2.165	3.150	0.394	DC	R2
2.165	3.150	0.394	SB2	C2
2.165	3.150	0.394	SC	R2

Shaft	Bore	Width	Lip Style	Material
2.165	3.150	0.394	TA2	G2
2.165	3.150	0.394	TB2	CPA
2.165	3.150	0.394	TC	R2
2.165	3.150	0.472	SA2	C2
2.165	3.150	0.472	SC	R2
2.165	3.150	0.472	TC	R2
2.165	3.150	0.512	SC	R2
2.165	3.150	0.748	DBR	C2
2.165	3.228	0.354	TC	R2
2.165	3.228	0.394	TB2	G2
2.165	3.228	0.394	TC	R3
2.165	3.228	0.394	VB2	G2
2.165	3.228	0.472	TC	R2
2.165	3.250	0.374	TC	R2
2.165	3.346	0.315	SC	R2
2.165	3.346	0.315	TC	R2
2.165	3.346	0.394	SC	R2
2.165	3.346	0.394	TC	R2
2.165	3.346	0.472	TC	R2
2.165	3.346	0.512	SC	R2
2.165	3.346	0.551	TC	R2
2.165	3.378	0.512	SC	R2
2.165	3.465	0.394	TC	R2
2.165	3.543	0.315	TC	R2
2.165	3.543	0.394	DC	R2
2.165	3.543	0.394	SB2	G2
2.165	3.543	0.394	SC	R2
2.165	3.543	0.394	TC	R2
2.165	3.543	0.472	SC	R2
2.165	3.543	0.512	TC	R2
2.165	3.622	0.354	SC	R2
2.165	3.622	0.354	TC	R2
2.165	3.740	0.394	TC	R3
2.165	3.937	0.315	SB2	G2
2.165	3.937	0.315	TC	R2
2.165	3.937	0.394	TC	R2
2.165	3.937	0.472	SC	R2
2.165	3.937	0.472	TC	R2
2.165	3.937	0.492	SC	R2
2.165	4.724	0.472	TC	R2
2.180	3.000	0.250	KB	G2
2.180	3.000	0.496	TB2	C2
2.187	2.750	0.374	TC	R2
2.187	2.808	0.354	SB2	CPA
2.187	2.874	0.315	DC	RV
2.187	2.875	0.374	TA2	PPA
2.187	2.875	0.500	SC	R2
2.187	2.996	0.437	TA2	C2
2.187	3.000	0.374	TB2	P2
2.187	3.000	0.374	TC	R2
2.187	3.000	0.500	TC	R2
2.187	3.063	0.374	TB2	P2
2.187	3.091	0.453	SC	R2
2.187	3.187	0.437	TC	R2



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Shaft	Bore	Width	Lip Style	Material
2.187	3.313	0.374	TB2	PV
2.187	3.375	0.500	SC	R2
2.187	3.623	0.469	TB2	PPA
2.205	2.677	0.236	TC	R2
2.205	2.756	0.315	SC	R2
2.205	2.756	0.354	TC	R2
2.205	2.835	0.315	SC	R2
2.205	2.835	0.315	TC	R2
2.205	2.835	0.354	TC	R2
2.205	2.835	0.394	TC	R2
2.205	2.874	0.236	TB2	G2
2.205	2.874	0.394	TC	R2
2.205	2.880	0.394	TB2	G2
2.205	2.953	0.315	SB2	G2
2.205	2.953	0.315	TC	R2
2.205	2.992	0.315	TC	R2
2.205	3.150	0.315	SC	R2
2.205	3.150	0.394	TC	R2
2.205	3.150	0.512	TC	R2
2.205	3.189	0.315	TB2	G2
2.205	3.346	0.315	SC	R2
2.205	3.346	0.315	TC	R2
2.205	3.346	0.394	TC	R2
2.205	3.543	0.394	SC	R2
2.205	3.543	0.394	TC	R2
2.205	3.937	0.394	SC	R2
2.244	2.638	0.236	TBR	C2
2.244	2.638	0.236	TC	R2
2.244	2.835	0.331	TBR	C2
2.244	2.953	0.472	TC	R2
2.244	3.150	0.472	TC	R2
2.244	3.248	0.394	TC	R2
2.244	3.248	0.472	TB2	G3
2.244	3.307	0.315	TB2	G2
2.244	3.346	0.394	TC	R2
2.244	3.346	0.472	TC	R2
2.244	3.346	0.591	TC	R2
2.244	3.543	0.512	SC	R2
2.250	2.500	0.189	WPB	G4
2.250	2.625	0.189	VB2	C2
2.250	2.625	0.189	VC	R2
2.250	2.625	0.189	WPB	G4
2.250	2.625	0.252	WPB	G4
2.250	2.675	0.539	TA2	P2
2.250	2.750	0.252	TC	R2
2.250	2.750	0.252	WPB	G4
2.250	2.875	0.252	VBR	C4
2.250	2.875	0.252	WPB	G4
2.250	2.875	0.311	TB	G2
2.250	2.875	0.374	TC	R2
2.250	2.890	0.563	TB2	P2
2.250	2.996	0.437	SB2	P2
2.250	2.996	0.437	TB2	GPA
2.250	2.996	0.437	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.250	2.997	0.437	TA2	P2
2.250	3.000	0.374	DC	R2
2.250	3.000	0.374	SB	P2
2.250	3.000	0.374	SB2	CV
2.250	3.000	0.374	SC	R2
2.250	3.000	0.374	TB2	C2
2.250	3.000	0.374	TB2	GV
2.250	3.000	0.374	TC	R2
2.250	3.000	0.437	SA2	P2
2.250	3.000	0.437	TB	G2
2.250	3.000	0.500	SA2	P2
2.250	3.000	0.500	SC	R2
2.250	3.000	0.500	TA2	P2
2.250	3.000	0.500	TB2	G2
2.250	3.000	0.500	TC	R2
2.250	3.061	0.374	SB2	C2
2.250	3.061	0.437	TA2	P2
2.250	3.062	0.374	TB2	P2
2.250	3.063	0.374	TC	R2
2.250	3.063	0.437	TB2	G2
2.250	3.066	0.374	TC	R2
2.250	3.125	0.374	SC	R2
2.250	3.125	0.374	TA2	P2
2.250	3.125	0.374	TB2	PPA
2.250	3.185	0.437	TA2	P2
2.250	3.187	0.500	SC	R2
2.250	3.189	0.437	TB2	PPA
2.250	3.250	0.374	TB2	G2
2.250	3.250	0.500	SC	R2
2.250	3.250	0.750	TC	RPA
2.250	3.251	0.437	SA2	C2
2.250	3.251	0.500	SA2	P2
2.250	3.350	0.311	SA2	PPA
2.250	3.350	0.469	SB2	C2
2.250	3.371	0.374	TA2	P2
2.250	3.371	0.374	VB	P2
2.250	3.371	0.374	VB2	G2
2.250	3.371	0.437	TA2	C2
2.250	3.375	0.252	TC	R2
2.250	3.375	0.311	SC	R2
2.250	3.375	0.375	TC	R2
2.250	3.375	0.437	TB2	G2
2.250	3.375	0.441	SA2	P2
2.250	3.375	0.500	TC	R2
2.250	3.500	0.437	TA2	G2
2.250	3.500	0.500	TA2	G2
2.250	3.500	0.500	TB2	G2
2.250	3.500	0.500	TB2	P2
2.250	3.500	0.500	TC	R2
2.250	3.543	0.500	TA2	P2
2.250	3.623	0.469	TA2	P2
2.250	3.623	0.469	TB2	PPA
2.250	3.625	0.500	TC	R2
2.250	3.750	0.500	TB2	G2

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Shaft	Bore	Width	Lip Style	Material
2.250	3.750	0.626	VB2	C2
2.250	3.751	0.500	TA2	P2
2.250	3.875	0.437	SA2	C2
2.252	3.622	0.709	TA2	G2
2.252	4.331	0.394	TC	R2
2.254	2.756	0.340	SB2	PV
2.281	3.250	0.500	TA2	G2
2.283	2.677	0.236	TB2	G2
2.283	2.677	0.354	TB	G2
2.283	2.677	0.354	TC	R2
2.283	2.756	0.276	TC	R2
2.283	2.756	0.354	TB	GPA
2.283	2.756	0.354	TC	R2
2.283	2.756	0.433	TC	R2
2.283	2.835	0.315	SC	R2
2.283	2.835	0.315	TC	R2
2.283	2.835	0.354	TC	R2
2.283	2.835	0.394	TC	R2
2.283	2.880	0.394	TB	G2
2.283	2.913	0.394	TC	R2
2.283	2.953	0.315	TC	R2
2.283	2.953	0.354	TB	G2
2.283	2.953	0.354	TBR	G2
2.283	2.953	0.354	TC	R2
2.283	2.953	0.394	TC	R2
2.283	2.953	0.433	TC	R2
2.283	2.953	0.472	TA2	G2
2.283	2.953	0.472	TC	R2
2.283	2.953	0.591	TB	G2
2.283	3.071	0.354	TC	R2
2.283	3.071	0.472	TC	R2
2.283	3.150	0.315	SC	R2
2.283	3.150	0.315	TC	R2
2.283	3.150	0.354	TC	R2
2.283	3.150	0.394	SC	R2
2.283	3.150	0.394	TC	R2
2.283	3.150	0.433	SC	R2
2.283	3.150	0.472	SB2	G2
2.283	3.150	0.472	TB2	G2
2.283	3.150	0.472	TC	R2
2.283	3.150	0.512	TC	R2
2.283	3.155	0.374	KB	P2
2.283	3.228	0.394	TC	R2
2.283	3.228	0.472	TC	R2
2.283	3.346	0.315	TB2	P2
2.283	3.346	0.315	TC	R2
2.283	3.346	0.394	TC	R2
2.283	3.346	0.472	SC	R2
2.283	3.346	0.472	TC	R2
2.283	3.386	0.472	TC	R3
2.283	3.543	0.394	SC	R2
2.283	3.543	0.394	TC	R2
2.283	3.543	0.433	SC	R2
2.283	3.543	0.512	TC	RV

Shaft	Bore	Width	Lip Style	Material
2.283	3.622	0.315	TC	R2
2.283	4.016	0.394	TB2	G2
2.283	4.016	0.472	TB2	G2
2.287	3.000	0.374	SC	R2
2.312	3.000	0.500	TA2	GV
2.313	3.000	0.252	VB2	P2
2.313	3.000	0.390	SB2	P2
2.313	3.125	0.374	TB2	P2
2.313	3.250	0.500	SA2	G2
2.313	3.313	0.374	TC	R2
2.313	3.350	0.311	SB2	G2
2.313	3.350	0.311	SC	R2
2.313	3.500	0.374	TA2	P2
2.313	3.500	0.500	SA2	C2
2.321	3.000	0.311	KB	C2
2.323	2.835	0.354	TB	G2
2.323	2.835	0.472	TB	G2
2.323	2.835	0.472	TC	R2
2.323	2.953	0.394	TB2	G2
2.328	2.878	0.311	TC	R2
2.328	2.997	0.311	KB2	P2
2.343	3.150	0.394	TC	RV
2.362	2.756	0.197	VB	G2
2.362	2.756	0.276	SC	R2
2.362	2.756	0.276	TB	G2
2.362	2.756	0.315	SC	R2
2.362	2.756	0.315	TC	R2
2.362	2.756	0.394	TC	R2
2.362	2.756	0.472	TC	R2
2.362	2.835	0.236	VC	R2
2.362	2.835	0.295	TB	G2
2.362	2.835	0.315	SB	C2
2.362	2.835	0.315	SC	R2
2.362	2.835	0.354	TC	R2
2.362	2.835	0.394	TC	R2
2.362	2.835	0.472	TC	R2
2.362	2.835	0.709	SB	G2
2.362	2.913	0.295	TB	G2
2.362	2.913	0.394	SC	R2
2.362	2.913	0.394	TA2	G2
2.362	2.913	0.394	TC	R2
2.362	2.953	0.157	VB	G2
2.362	2.953	0.236	VC	R2
2.362	2.953	0.315	SC	RV
2.362	2.953	0.315	SC	R2
2.362	2.953	0.315	TB	G2
2.362	2.953	0.315	TC	R2
2.362	2.953	0.354	SC	R2
2.362	2.953	0.354	TC	R2
2.362	2.953	0.394	TC	R2
2.362	2.953	0.472	TC	R2
2.362	2.984	0.157	VBR	C2
2.362	2.992	0.354	TC	R2
2.362	3.031	0.354	TC	R2



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Shaft	Bore	Width	Lip Style	Material
2.362	3.031	0.472	TB2	G2
2.362	3.031	0.472	TC	R2
2.362	3.063	0.315	DC	R2
2.362	3.071	0.252	DC	R2
2.362	3.071	0.276	VB2	G2
2.362	3.071	0.354	SC	R2
2.362	3.071	0.354	TB2	G2
2.362	3.071	0.354	TC	R2
2.362	3.071	0.394	TC	R2
2.362	3.130	0.394	TC	R2
2.362	3.150	0.197	VB2	C2
2.362	3.150	0.276	TC	R2
2.362	3.150	0.315	SC	R2
2.362	3.150	0.315	TB2	G2
2.362	3.150	0.315	TC	R2
2.362	3.150	0.354	TC	R2
2.362	3.150	0.394	DC	RV
2.362	3.150	0.394	SC	RV
2.362	3.150	0.394	SC	R2
2.362	3.150	0.394	TA2	G3
2.362	3.150	0.394	TB2	GV
2.362	3.150	0.394	TC	R2
2.362	3.150	0.472	SC	R2
2.362	3.150	0.472	TB2	G2
2.362	3.150	0.472	TC	R2
2.362	3.150	0.512	SC	R2
2.362	3.150	0.512	TC	R2
2.362	3.228	0.276	KC	R2
2.362	3.228	0.276	TC	R2
2.362	3.228	0.315	TC	R2
2.362	3.228	0.354	TB2	GPA
2.362	3.228	0.354	TC	R2
2.362	3.228	0.472	SB2	G2
2.362	3.228	0.472	SC	R2
2.362	3.228	0.472	TB2	G2
2.362	3.228	0.472	TC	R2
2.362	3.228	0.709	DB2	GP
2.362	3.307	0.394	TC	R2
2.362	3.346	0.236	TC	R2
2.362	3.346	0.276	TC	R2
2.362	3.346	0.315	SC	R2
2.362	3.346	0.315	TC	R2
2.362	3.346	0.394	SC	R2
2.362	3.346	0.394	TC	R2
2.362	3.346	0.472	SC	R2
2.362	3.346	0.472	TC	R2
2.362	3.346	0.512	SC	R2
2.362	3.346	0.512	TC	R2
2.362	3.346	0.630	TA2	G3
2.362	3.366	0.472	SA2	G2
2.362	3.366	0.472	TC	R2
2.362	3.366	0.630	TC	R2
2.362	3.386	0.248	DB2	C2
2.362	3.386	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.362	3.543	0.315	SC	R2
2.362	3.543	0.315	TC	R2
2.362	3.543	0.394	SB2	C2
2.362	3.543	0.394	SC	R2
2.362	3.543	0.394	TC	R2
2.362	3.543	0.433	TC	R2
2.362	3.543	0.472	TC	R2
2.362	3.543	0.512	TC	R2
2.362	3.622	0.472	TC	R2
2.362	3.740	0.315	TC	R2
2.362	3.740	0.394	SC	R2
2.362	3.740	0.394	TC	R2
2.362	3.740	0.433	TC	R2
2.362	3.740	0.472	TC	R2
2.362	3.740	0.512	TC	R2
2.362	3.937	0.394	SA2	C2
2.362	3.937	0.394	SC	R2
2.362	3.937	0.394	TC	R2
2.362	3.937	0.472	TC	R2
2.362	3.937	0.512	TC	R2
2.362	4.094	0.472	TC	R2
2.362	4.331	0.394	SC	R2
2.362	4.331	0.394	TC	R2
2.362	4.331	0.472	SC	R2
2.362	4.331	0.472	TC	R2
2.362	4.331	0.512	TA2	C2
2.362	4.724	0.512	TC	R2
2.362	5.118	0.394	TC	R2
2.375	2.844	0.295	KBR	C2
2.375	2.875	0.252	WPB	G4
2.375	2.875	0.311	SC	R2
2.375	3.000	0.311	SC	R2
2.375	3.000	0.374	SC	R2
2.375	3.063	0.374	TB2	P2
2.375	3.063	0.500	SB	PS
2.375	3.063	0.500	TC	R2
2.375	3.125	0.374	SB	P2
2.375	3.125	0.374	SC	R2
2.375	3.125	0.374	TA2	C2
2.375	3.125	0.374	TB2	P2
2.375	3.125	0.374	TC	R2
2.375	3.125	0.374	VB	G2
2.375	3.125	0.437	TA2	P2
2.375	3.125	0.500	SA2	P2
2.375	3.125	0.500	TA2	CPA
2.375	3.250	0.374	TB2	G2
2.375	3.250	0.437	TA2	PPA
2.375	3.250	0.469	TC	R2
2.375	3.250	0.500	SC	R2
2.375	3.251	0.374	TA2	P2
2.375	3.251	0.375	TC	R2
2.375	3.251	0.500	TB2	PPA
2.375	3.344	0.252	SB2	G2
2.375	3.344	0.500	SC	R2

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Shaft	Bore	Width	Lip Style	Material
2.375	3.350	0.374	SB2	PS
2.375	3.350	0.374	TA2	P2
2.375	3.350	0.437	TA2	P2
2.375	3.350	0.469	TA2	CPA
2.375	3.350	0.673	TB2	P2
2.375	3.371	0.469	SA2	C2
2.375	3.375	0.500	SC	R2
2.375	3.375	0.500	TC	R2
2.375	3.480	0.689	TA2	G2
2.375	3.481	0.402	SA2	G2
2.375	3.481	0.437	TA2	P2
2.375	3.483	0.500	TA2	PPA
2.375	3.500	0.374	SC	R2
2.375	3.500	0.374	TA2	P2
2.375	3.500	0.374	TC	R2
2.375	3.500	0.500	TB2	P2
2.375	3.500	0.625	TC	RPA
2.375	3.543	0.311	TA2	G2
2.375	3.543	0.437	SA2	C2
2.375	3.543	0.500	TA2	PPA
2.375	3.601	0.437	TA2	P2
2.375	3.603	0.469	TA2	G2
2.375	3.623	0.437	SA2	G2
2.375	3.623	0.437	TA2	GPA
2.375	3.623	0.437	TB2	P2
2.375	3.623	0.500	SA2	G2
2.375	3.623	0.500	TA2	P2
2.375	3.750	0.500	SC	R2
2.375	3.750	0.500	TB2	G2
2.375	3.750	0.500	TC	R2
2.375	3.875	0.437	SA2	P2
2.375	4.331	0.500	TA2	C2
2.382	3.071	0.394	TC	R2
2.402	3.153	0.307	TB	G2
2.421	3.350	0.374	TB2	PV
2.437	3.125	0.374	TB2	G2
2.437	3.250	0.374	TC	R2
2.437	3.250	0.437	TC	R2
2.437	3.251	0.437	TA2	P2
2.437	3.350	0.374	SB2	P2
2.437	3.375	0.374	TA2	G2
2.437	3.500	0.375	TA2	P2
2.437	3.500	0.437	TA2	P2
2.437	3.500	0.500	SBR	G2
2.437	3.624	0.374	KB2	P2
2.437	3.625	0.374	TC	R2
2.438	3.350	0.469	TA2	P2
2.441	2.756	0.472	TC	R2
2.441	2.953	0.394	TC	R2
2.441	2.953	0.472	TC	R2
2.441	2.992	0.374	TB	G2
2.441	3.071	0.394	TC	R2
2.441	3.071	0.472	TC	R2
2.441	3.150	0.354	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.441	3.150	0.394	SC	R2
2.441	3.150	0.394	TA2	G2
2.441	3.150	0.394	TB2	G2
2.441	3.150	0.394	TC	R2
2.441	3.150	0.472	TC	R2
2.441	3.189	0.394	TC	R2
2.441	3.228	0.394	TC	R2
2.441	3.228	0.433	TB2	C3
2.441	3.228	0.472	TC	R2
2.441	3.346	0.315	TB2	G2
2.441	3.346	0.315	TC	R2
2.441	3.346	0.354	TB2	G2
2.441	3.346	0.394	SC	R2
2.441	3.346	0.394	TB2	G2
2.441	3.346	0.394	TC	R2
2.441	3.346	0.472	DB2	CV
2.441	3.346	0.472	SB2	G2
2.441	3.346	0.472	TB2	G2
2.441	3.346	0.472	TC	R2
2.441	3.346	0.512	TC	R2
2.441	3.346	0.709	DB	GP
2.441	3.465	0.472	TC	R2
2.441	3.504	0.472	TC	R2
2.441	3.543	0.394	SC	R2
2.441	3.543	0.394	TC	R2
2.441	3.543	0.472	TA2	G2
2.441	3.543	0.472	TC	R2
2.441	3.543	0.512	SA2	G2
2.441	3.543	0.512	TC	R2
2.441	3.661	0.472	TC	R2
2.441	3.740	0.394	SC	R2
2.441	3.740	0.394	TC	R2
2.441	3.740	0.472	TC	R2
2.441	3.937	0.394	TC	R2
2.441	3.937	0.472	SC	R2
2.441	3.937	0.472	TB2	C2
2.441	3.937	0.472	TC	R2
2.441	4.331	0.512	TC	R2
2.469	3.063	0.437	SC	R2
2.480	3.012	0.236	WPB	G4
2.480	3.150	0.303	TB2	G2
2.480	3.150	0.354	TC	R2
2.480	3.150	0.394	TC	R2
2.480	3.150	0.472	TB2	C2
2.480	3.150	0.472	TC	R2
2.480	3.248	0.394	TC	R2
2.480	3.268	0.315	SC	R2
2.480	3.346	0.472	TC	R2
2.480	3.465	0.394	TC	R2
2.480	3.465	0.472	TC	R2
2.480	3.543	0.394	SC	R2
2.480	3.543	0.394	TC	R2
2.480	3.543	0.472	TC	R2
2.480	3.543	0.512	TC	R2

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Shaft	Bore	Width	Lip Style	Material
2.480	3.937	0.394	SC	R2
2.480	3.937	0.394	TC	R2
2.480	3.937	0.512	TC	R2
2.500	3.000	0.252	VB	C2
2.500	3.000	0.252	WPB	G4
2.500	3.000	0.374	SC	R2
2.500	3.062	0.252	SBR	C2
2.500	3.125	0.252	WPB	G4
2.500	3.250	0.374	SC	R2
2.500	3.250	0.500	TC	R2
2.500	3.251	0.311	VB2	P2
2.500	3.251	0.374	TB2	P2
2.500	3.251	0.500	SA2	P2
2.500	3.251	0.500	SB2	P2
2.500	3.251	0.500	TA2	P2
2.500	3.264	0.626	TB2	P2
2.500	3.281	0.374	TC	R2
2.500	3.346	0.472	TC	R2
2.500	3.370	0.500	SA2	PS
2.500	3.371	0.374	TB2	G2
2.500	3.375	0.500	SC	R2
2.500	3.428	0.374	TB2	PPA
2.500	3.499	0.500	SB2	CV
2.500	3.500	0.374	TA2	P2
2.500	3.500	0.374	TB2	G2
2.500	3.500	0.500	SA2	G2
2.500	3.500	0.500	SA2	P2
2.500	3.500	0.500	SC	R2
2.500	3.500	0.500	TA2	P2
2.500	3.500	0.500	TB2	G2
2.500	3.500	0.500	TC	R2
2.500	3.500	0.626	SB2	G2
2.500	3.543	0.437	SA2	P2
2.500	3.543	0.437	TC	R2
2.500	3.543	0.500	TA2	P2
2.500	3.547	0.469	SA2	G2
2.500	3.563	0.437	SC	R2
2.500	3.623	0.374	TA2	P2
2.500	3.623	0.437	TB2	PPA
2.500	3.625	0.500	SC	R2
2.500	3.740	0.394	SC	R2
2.500	3.750	0.437	SBR	P2
2.500	3.750	0.500	TC	R2
2.500	3.751	0.437	SA2	P2
2.500	3.751	0.437	TB2	G2
2.500	3.751	0.500	SB2	P2
2.500	3.751	0.500	TA2	P2
2.500	3.875	0.437	SA2	C2
2.500	3.876	0.469	TA2	PPA
2.500	3.876	0.469	TB2	C2
2.500	4.000	0.374	TA2	G2
2.500	4.000	0.469	SC	R2
2.500	4.000	0.500	SC	R2
2.500	4.000	0.500	TA2	G2

Shaft	Bore	Width	Lip Style	Material
2.500	4.331	0.512	SA2	G2
2.500	4.938	0.500	TB2	CPA
2.520	3.031	0.472	TB	G2
2.520	3.150	0.315	TC	R2
2.520	3.150	0.394	TC	R2
2.520	3.150	0.472	TC	R2
2.520	3.150	0.512	TC	R2
2.520	3.228	0.276	KB2	G2
2.520	3.346	0.394	TC	R2
2.520	3.346	0.472	TC	R2
2.520	3.346	0.630	TC	R2
2.520	3.504	0.472	TB	G2
2.520	3.740	0.394	TC	R3
2.520	4.724	0.472	TC	R2
2.531	3.625	0.500	TB2	PPA
2.559	2.953	0.197	SC	R2
2.559	2.953	0.197	TC	R2
2.559	2.953	0.315	TC	R2
2.559	2.953	0.394	TC	R2
2.559	2.953	0.472	TC	R2
2.559	3.031	0.295	TB2	G3
2.559	3.071	0.472	TC	R2
2.559	3.150	0.236	SC	R2
2.559	3.150	0.276	TC	R2
2.559	3.150	0.315	DC	R2
2.559	3.150	0.315	SC	R2
2.559	3.150	0.315	TC	R2
2.559	3.150	0.315	VB2	G2
2.559	3.150	0.394	SC	R2
2.559	3.150	0.394	TC	R2
2.559	3.150	0.472	TC	R2
2.559	3.228	0.354	TC	R2
2.559	3.228	0.394	SC	R2
2.559	3.228	0.394	TC	R2
2.559	3.228	0.472	TC	R2
2.559	3.268	0.335	TC	R2
2.559	3.346	0.315	SC	R2
2.559	3.346	0.315	TC	R2
2.559	3.346	0.394	SC	R2
2.559	3.346	0.394	TB2	G2
2.559	3.346	0.394	TC	R2
2.559	3.346	0.472	TC	R2
2.559	3.346	0.512	SC	R2
2.559	3.346	0.512	TB2	G2
2.559	3.346	0.512	TC	R2
2.559	3.465	0.315	TC	R2
2.559	3.465	0.394	TC	R2
2.559	3.465	0.472	TA2	G2
2.559	3.465	0.472	TB2	G2
2.559	3.465	0.472	TB2	PS
2.559	3.465	0.472	TC	R2
2.559	3.465	0.512	TB2	G2
2.559	3.465	0.512	TC	R2
2.559	3.504	0.472	TC	R2

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oil seal size listing

Shaft	Bore	Width	Lip Style	Material
2.559	3.543	0.236	VB2	G2
2.559	3.543	0.276	TC	R2
2.559	3.543	0.315	TC	R2
2.559	3.543	0.394	SB2	C2
2.559	3.543	0.394	SC	R2
2.559	3.543	0.394	TC	R2
2.559	3.543	0.472	SC	R2
2.559	3.543	0.472	TC	R2
2.559	3.543	0.512	SB2	G2
2.559	3.543	0.512	SC	R2
2.559	3.543	0.512	TA2	G2
2.559	3.543	0.512	TB2	G2
2.559	3.543	0.512	TC	R2
2.559	3.543	0.787	DB	GP
2.559	3.622	0.394	TC	R2
2.559	3.622	0.472	TB2	P2
2.559	3.622	0.512	TB2	G2
2.559	3.740	0.394	SC	R2
2.559	3.740	0.394	TC	R2
2.559	3.740	0.472	TC	R2
2.559	3.740	0.512	TC	R2
2.559	3.740	0.551	TB2	G2
2.559	3.740	0.551	TC	R2
2.559	3.937	0.315	TC	R2
2.559	3.937	0.374	TC	R2
2.559	3.937	0.394	SC	R2
2.559	3.937	0.394	TC	R2
2.559	3.937	0.472	SC	R2
2.559	3.937	0.472	TB2	G2
2.559	3.937	0.472	TC	R2
2.559	3.937	0.512	TC	R2
2.559	4.016	0.512	TC	R2
2.559	4.134	0.472	TC	R2
2.559	4.331	0.394	TB2	G2
2.559	4.331	0.394	TC	R2
2.559	4.331	0.472	TC	R2
2.559	4.331	0.512	TC	R2
2.559	4.528	0.472	TC	R2
2.559	4.528	0.512	TC	R2
2.559	4.724	0.394	SC	R2
2.559	4.724	0.394	TC	R2
2.559	4.724	0.472	TC	R2
2.559	4.724	0.512	TC	R2
2.559	4.724	0.591	TC	R2
2.559	5.512	0.551	TC	R2
2.562	3.623	0.469	TB2	PPA
2.563	3.172	0.189	SBR	G2
2.563	3.481	0.374	TA2	P2
2.563	3.484	0.500	SB2	G2
2.563	3.500	0.500	TB2	G2
2.563	3.623	0.374	TA2	P2
2.563	3.625	0.437	TC	R2
2.563	3.625	0.500	SA2	P2
2.563	3.750	0.374	TA2	P2

Shaft	Bore	Width	Lip Style	Material
2.563	3.750	0.500	TC	RV
2.563	3.873	0.438	TB2	P2
2.593	3.250	0.500	TC	R2
2.598	3.346	0.315	TA2	G2
2.598	3.346	0.394	SC	R2
2.598	3.481	0.500	TA2	PPA
2.598	3.999	0.780	TB2	P2
2.625	3.125	0.252	WPB	G4
2.625	3.250	0.437	SA2	P2
2.625	3.251	0.437	TA2	PPA
2.625	3.350	0.374	SC	R2
2.625	3.371	0.437	TA2	C2
2.625	3.375	0.252	VB2	P2
2.625	3.375	0.374	TC	R2
2.625	3.480	0.500	SA2	P2
2.625	3.500	0.374	SC	R2
2.625	3.500	0.374	TA2	P2
2.625	3.500	0.374	TB2	P2
2.625	3.500	0.437	TA2	P2
2.625	3.500	0.437	TB2	CPA
2.625	3.543	0.311	SB2	P2
2.625	3.547	0.469	SC	R2
2.625	3.623	0.374	SB2	P2
2.625	3.623	0.374	TA2	G2
2.625	3.623	0.469	TB2	PPA
2.625	3.623	0.500	SA2	P2
2.625	3.623	0.750	TA2	G2
2.625	3.625	0.374	TC	R2
2.625	3.625	0.437	TB2	P2
2.625	3.625	0.500	SA2	G2
2.625	3.625	0.500	TC	R2
2.625	3.628	0.438	TA2	P2
2.625	3.628	0.469	SA2	G2
2.625	3.750	0.374	SB	P2
2.625	3.750	0.374	TC	R2
2.625	3.750	0.500	SC	R2
2.625	3.750	0.500	TA2	G2
2.625	3.750	0.626	TC	R2
2.625	3.751	0.374	TB2	C2
2.625	3.751	0.437	TA2	P2
2.625	3.751	0.500	TB2	PPA
2.625	3.875	0.374	TC	R2
2.625	3.876	0.437	SA2	P2
2.625	3.876	0.469	TA2	C2
2.625	4.003	0.374	TA2	P2
2.625	4.375	0.437	TA2	P2
2.625	4.437	0.437	SA2	C2
2.626	3.750	0.500	TC	R2
2.629	3.813	0.500	SB2	G2
2.638	3.228	0.276	TC	R2
2.638	3.307	0.354	DC	R2
2.638	3.346	0.394	TC	R2
2.638	3.937	0.394	DC	R2
2.648	3.812	0.500	SB2	P2

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Shaft	Bore	Width	Lip Style	Material
2.667	3.751	0.500	VBR	C2
2.677	3.150	0.315	TC	R2
2.677	3.150	0.394	SC	R2
2.677	3.150	0.394	TC	R2
2.677	3.228	0.276	SC	R2
2.677	3.228	0.276	TC	R2
2.677	3.228	0.394	TC	R2
2.677	3.254	0.295	TC	R2
2.677	3.346	0.315	TB2	G2
2.677	3.346	0.394	SB2	G2
2.677	3.346	0.394	SC	R2
2.677	3.346	0.394	TC	R2
2.677	3.465	0.374	TA2	G2
2.677	3.465	0.394	TB2	G2
2.677	3.465	0.394	TC	R2
2.677	3.543	0.315	TC	R2
2.677	3.543	0.331	SB2	P2
2.677	3.543	0.394	SB2	C2
2.677	3.543	0.394	SC	R2
2.677	3.543	0.394	TA2	G2
2.677	3.543	0.394	TB2	G2
2.677	3.543	0.394	TC	R2
2.677	3.543	0.472	TB2	G2
2.677	3.543	0.472	TC	R2
2.677	3.543	0.512	DC	RV
2.677	3.543	0.512	SB2	G2
2.677	3.543	0.512	TC	R2
2.677	3.543	0.551	TB2	G2
2.677	3.622	0.394	TA2	G2
2.677	3.622	0.472	TB2	G2
2.677	3.622	0.472	TC	R2
2.677	3.740	0.315	TC	R2
2.677	3.740	0.394	SC	R2
2.677	3.740	0.512	SB2	G2
2.677	3.740	0.512	SB2	PV
2.677	3.740	0.512	TB2	G2
2.677	3.740	0.512	TC	R2
2.677	3.858	0.394	TC	R2
2.677	3.937	0.394	SC	R2
2.677	3.937	0.394	TC	R2
2.677	3.937	0.472	TC	R2
2.677	3.937	0.512	SC	R2
2.677	3.937	0.512	TC	R2
2.677	4.331	0.512	SC	R2
2.677	4.528	0.512	SC	R2
2.677	4.528	0.512	SC	R2
2.687	3.750	0.500	SC	R2
2.687	3.875	0.374	TC	R2
2.687	4.000	0.500	TC	R2
2.688	4.003	0.469	SA2	C2
2.717	3.346	0.394	TB2	C2
2.717	3.504	0.512	TC	R2
2.717	3.622	0.472	TC	R2
2.717	4.331	0.394	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.719	3.891	0.390	TA2	C2
2.750	3.125	0.189	WPB	G4
2.750	3.250	0.252	WPB	G4
2.750	3.500	0.157	VC	R2
2.750	3.500	0.252	VB2	P2
2.750	3.500	0.374	DC	RV
2.750	3.500	0.374	SB2	P2
2.750	3.500	0.374	SC	RV
2.750	3.500	0.374	SC	R2
2.750	3.500	0.374	TA2	P2
2.750	3.500	0.374	TB2	GV
2.750	3.500	0.374	TC	R2
2.750	3.500	0.437	SA2	P2
2.750	3.500	0.500	SC	R2
2.750	3.540	0.500	SA2	P2
2.750	3.543	0.437	TA2	C2
2.750	3.543	0.500	TA2	CPA
2.750	3.543	0.500	TB2	PPA
2.750	3.547	0.500	SC	R2
2.750	3.625	0.374	TC	R2
2.750	3.625	0.437	SA2	G2
2.750	3.750	0.374	TA2	GV
2.750	3.750	0.437	SC	R2
2.750	3.750	0.500	SA2	G2
2.750	3.750	0.500	SC	R2
2.750	3.750	0.626	TA2	C2
2.750	3.750	0.626	TB2	C2
2.750	3.751	0.437	TA2	G2
2.750	3.751	0.437	TB2	PPA
2.750	3.751	0.500	SA2	P2
2.750	3.751	0.500	TA2	G2
2.750	3.751	0.500	TA2	P2
2.750	3.765	0.469	SA2	G2
2.750	3.875	0.374	TA2	P2
2.750	3.875	0.500	SA2	P2
2.750	3.875	0.500	TC	R2
2.750	3.876	0.437	TB2	C2
2.750	3.876	0.469	TA2	PPA
2.750	3.876	0.469	TB2	PPA
2.750	3.937	0.307	TB2	P2
2.750	4.000	0.500	SC	R2
2.750	4.002	0.374	TA2	P2
2.750	4.003	0.469	TA2	PPA
2.750	4.125	0.437	SB2	PPA
2.750	4.250	0.469	TA2	P2
2.750	4.331	0.500	TA2	CPA
2.750	4.374	0.752	TA2	G2
2.756	3.150	0.236	TC	R2
2.756	3.150	0.315	TC	R2
2.756	3.150	0.394	TC	R2
2.756	3.150	0.472	TC	R2
2.756	3.209	0.236	SC	R3
2.756	3.209	0.236	TC	R3
2.756	3.209	0.236	VC	R2

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Shaft	Bore	Width	Lip Style	Material
2.756	3.228	0.335	TC	R2
2.756	3.268	0.394	TC	R2
2.756	3.346	0.276	SC	R2
2.756	3.346	0.315	SC	R2
2.756	3.346	0.315	TB2	G2
2.756	3.346	0.315	TC	R2
2.756	3.346	0.354	TC	R2
2.756	3.346	0.394	TC	R2
2.756	3.346	0.472	TC	R2
2.756	3.386	0.472	SC	R2
2.756	3.425	0.394	TC	R2
2.756	3.465	0.315	TC	R2
2.756	3.465	0.394	TC	R2
2.756	3.465	0.472	TB	G2
2.756	3.465	0.472	TC	R2
2.756	3.543	0.276	TC	R2
2.756	3.543	0.315	TC	R2
2.756	3.543	0.394	DC	R2
2.756	3.543	0.394	SB2	G2
2.756	3.543	0.394	SC	RV
2.756	3.543	0.394	SC	R2
2.756	3.543	0.394	TA2	G2
2.756	3.543	0.394	TB2	G2
2.756	3.543	0.394	TC	R2
2.756	3.543	0.472	SC	R2
2.756	3.543	0.472	TA2	G2
2.756	3.543	0.472	TC	R2
2.756	3.543	0.512	SA2	G2
2.756	3.543	0.512	TC	R2
2.756	3.543	0.531	TB2	G2
2.756	3.547	0.413	TC	R2
2.756	3.622	0.276	VC	R2
2.756	3.622	0.354	TC	R2
2.756	3.622	0.394	TC	R2
2.756	3.622	0.472	TBR	G2
2.756	3.622	0.472	TC	R2
2.756	3.740	0.394	DC	R2
2.756	3.740	0.394	SC	R2
2.756	3.740	0.394	TC	R2
2.756	3.740	0.472	TC	R2
2.756	3.740	0.512	SB2	G2
2.756	3.740	0.512	SC	R2
2.756	3.740	0.512	TB2	G2
2.756	3.740	0.512	TC	R2
2.756	3.937	0.394	SC	R2
2.756	3.937	0.394	TC	R2
2.756	3.937	0.472	SC	R2
2.756	3.937	0.472	TB2	G2
2.756	3.937	0.472	TC	R2
2.756	3.937	0.512	SB2	G2
2.756	3.937	0.512	TB2	G2
2.756	3.937	0.512	TC	R2
2.756	3.937	0.551	TB2	G2
2.756	3.937	0.551	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.756	4.016	0.472	TC	R2
2.756	4.016	0.512	TC	R2
2.756	4.134	0.394	SB2	G2
2.756	4.134	0.394	TC	R3
2.756	4.134	0.472	TC	R2
2.756	4.134	0.512	SC	R2
2.756	4.134	0.512	TC	R2
2.756	4.331	0.315	SC	R2
2.756	4.331	0.394	SC	R2
2.756	4.331	0.394	TC	R2
2.756	4.331	0.472	SC	R2
2.756	4.331	0.472	TC	R2
2.756	4.331	0.512	SC	R2
2.756	4.331	0.512	TA2	G2
2.756	4.331	0.512	TC	R2
2.756	4.409	0.512	TC	R2
2.756	4.528	0.472	TC	R2
2.756	4.528	0.512	TC	R2
2.756	4.528	0.591	TC	R2
2.756	4.724	0.472	TC	R2
2.756	4.724	0.512	SC	R2
2.756	4.724	0.512	TC	R2
2.756	4.921	0.472	TC	R2
2.756	4.921	0.512	TC	R2
2.764	3.882	0.189	VB	C2
2.795	3.465	0.315	SC	R2
2.795	3.465	0.315	TC	R2
2.812	3.876	0.189	VBR	C2
2.812	3.876	0.437	TA2	P2
2.812	4.249	0.469	TA2	P2
2.813	3.875	0.484	SA2	C2
2.813	3.876	0.437	SA2	P2
2.835	3.386	0.295	TC	R2
2.835	3.386	0.354	TC	R2
2.835	3.465	0.315	SB2	G2
2.835	3.543	0.315	TB2	C2
2.835	3.543	0.315	TC	R2
2.835	3.543	0.394	SC	R2
2.835	3.543	0.394	TC	R2
2.835	3.622	0.374	SC	RS
2.835	3.622	0.374	TC	R2
2.835	3.622	0.472	TC	R2
2.835	3.701	0.315	TB2	G2
2.835	3.701	0.394	TB2	G2
2.835	3.701	0.472	TC	R2
2.835	3.740	0.394	SC	R2
2.835	3.740	0.394	TC	R2
2.835	3.740	0.472	SC	R2
2.835	3.740	0.472	TC	R2
2.835	3.740	0.512	TC	R2
2.835	3.760	0.472	TB2	G2
2.835	3.937	0.394	SC	R2
2.835	3.937	0.394	TC	R2
2.835	3.937	0.472	SA2	GPA

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Shaft	Bore	Width	Lip Style	Material
2.835	3.937	0.472	SC	R2
2.835	3.937	0.512	TA2	P2
2.835	4.016	0.591	TB2	G2
2.835	4.134	0.512	TA2	G2
2.835	4.134	0.512	TB2	G2
2.835	4.134	0.512	TC	R2
2.835	4.331	0.394	TC	R2
2.835	4.528	0.394	TC	R2
2.844	4.003	0.500	SA2	P2
2.874	3.543	0.315	TB2	G2
2.874	3.543	0.315	TC	R2
2.874	3.543	0.394	TB	G2
2.874	3.858	0.472	TC	R2
2.874	3.937	0.394	TB2	G2
2.874	3.937	0.394	TC	R2
2.875	3.371	0.252	WPB	G4
2.875	3.437	0.295	TB	P2
2.875	3.562	0.469	TC	R2
2.875	3.623	0.374	TA2	P2
2.875	3.625	0.374	SC	R2
2.875	3.625	0.374	TA2	P2
2.875	3.625	0.374	TC	R2
2.875	3.750	0.433	SA2	PS
2.875	3.750	0.500	SC	R2
2.875	3.751	0.374	TA2	P2
2.875	3.751	0.374	TC	R2
2.875	3.751	0.437	SA2	P2
2.875	3.751	0.437	TA2	P2
2.875	3.751	0.469	SA2	P2
2.875	3.751	0.500	SA2	P2
2.875	3.875	0.500	SC	R2
2.875	3.876	0.374	TA2	P2
2.875	3.937	0.453	SB2	C2
2.875	4.000	0.374	SC	R2
2.875	4.000	0.500	SC	R2
2.875	4.000	0.500	TC	R2
2.875	4.003	0.469	SA2	P2
2.875	4.003	0.500	SA2	P2
2.875	4.003	0.591	SB2	G2
2.875	4.331	0.437	TB2	PPA
2.876	3.982	0.374	TB2	C2
2.876	4.016	0.386	TC	R2
2.882	3.431	0.291	TB	P2
2.913	3.543	0.394	SB	CSI
2.913	3.543	0.394	TC	R2
2.913	3.701	0.394	TC	R2
2.913	3.740	0.276	TC	R2
2.913	3.937	0.394	TB2	G2
2.913	3.937	0.394	TBR	G2
2.913	3.937	0.512	TC	R2
2.913	4.488	0.433	SA2	G2
2.937	3.750	0.374	DC	R2
2.937	3.750	0.374	TC	R2
2.937	3.937	0.437	TC	R2

Shaft	Bore	Width	Lip Style	Material
2.937	3.937	0.500	TA2	PPA
2.937	4.000	0.374	TC	R2
2.937	4.000	0.437	TB2	G2
2.937	4.003	0.469	TB2	PPA
2.937	4.125	0.374	TB2	PV
2.937	4.499	0.469	TA2	P2
2.938	3.751	0.374	TB2	P2
2.938	3.751	0.500	SA2	P2
2.953	3.346	0.276	SC	R2
2.953	3.543	0.276	SB	G2
2.953	3.543	0.315	SC	R2
2.953	3.543	0.315	TC	R2
2.953	3.543	0.394	SC	RV
2.953	3.543	0.394	TC	R2
2.953	3.543	0.472	TC	R2
2.953	3.583	0.472	SC	R2
2.953	3.622	0.472	TC	R2
2.953	3.740	0.197	SB	G2
2.953	3.740	0.276	TB2	GV
2.953	3.740	0.315	TC	R2
2.953	3.740	0.394	DC	R2
2.953	3.740	0.394	SC	R2
2.953	3.740	0.394	TB2	G2
2.953	3.740	0.394	TC	R2
2.953	3.740	0.472	SC	R2
2.953	3.740	0.472	TC	R2
2.953	3.740	0.512	SA2	G2
2.953	3.740	0.512	SC	R2
2.953	3.740	0.512	TA2	G2
2.953	3.740	0.512	TBR	G2
2.953	3.740	0.512	TC	R2
2.953	3.780	0.433	TB	G2
2.953	3.780	0.441	TB2	C2
2.953	3.937	0.276	TC	R2
2.953	3.937	0.394	SA2	GPA
2.953	3.937	0.394	SB2	P2
2.953	3.937	0.394	SC	R2
2.953	3.937	0.394	TB2	PS
2.953	3.937	0.394	TC	R2
2.953	3.937	0.472	SC	R2
2.953	3.937	0.472	TC	RS
2.953	3.937	0.472	TC	R2
2.953	3.937	0.512	SB2	G2
2.953	3.937	0.512	TA2	G2
2.953	3.937	0.512	TB2	G2
2.953	3.937	0.512	TC	R2
2.953	4.000	0.630	TA2	G2
2.953	4.016	0.512	TB2	G2
2.953	4.016	0.512	TC	R2
2.953	4.134	0.394	TA2	G2
2.953	4.134	0.472	DC	R2
2.953	4.134	0.472	SC	R2
2.953	4.134	0.472	TA2	G2
2.953	4.134	0.472	TA2	G2
2.953	4.134	0.472	TA2	C2

Shaft	Bore	Width	Lip Style	Material
2.953	4.134	0.512	SC	R2
2.953	4.134	0.512	TA2	G2
2.953	4.134	0.512	TB2	G2
2.953	4.134	0.512	TC	R2
2.953	4.134	0.591	TB2	G2
2.953	4.134	0.591	TC	R2
2.953	4.173	0.394	TC	R2
2.953	4.252	0.512	TA2	G3
2.953	4.252	0.512	TC	R2
2.953	4.331	0.394	TC	R2
2.953	4.331	0.472	SC	R2
2.953	4.331	0.472	TC	R2
2.953	4.331	0.512	SC	R2
2.953	4.331	0.512	TB2	G2
2.953	4.331	0.512	TC	R2
2.953	4.409	0.472	TB2	C2
2.953	4.528	0.315	TC	R2
2.953	4.528	0.374	TC	R2
2.953	4.528	0.394	SC	R2
2.953	4.528	0.394	TC	R2
2.953	4.528	0.472	SC	RV
2.953	4.528	0.512	SA2	G2
2.953	4.528	0.512	TC	R2
2.953	4.646	0.472	TC	R2
2.953	4.724	0.394	TC	R2
2.953	4.724	0.472	SC	R2
2.953	4.724	0.472	TC	R2
2.953	4.724	0.512	TC	R2
2.953	4.764	0.512	TB2	G2
2.953	4.764	0.512	TBR	C2
2.953	4.764	0.512	TC	R2
2.953	4.921	0.512	TC	R2
2.953	5.118	0.394	TC	R2
2.953	5.118	0.512	SC	RV
2.953	5.118	0.512	TC	RV
2.953	5.276	0.394	TC	R2
2.953	5.906	0.472	TC	R2
2.992	3.622	0.394	TC	R2
2.992	3.701	0.472	TC	R2
2.992	3.740	0.394	TC	R2
2.992	4.134	0.472	TC	R2
2.992	4.134	0.512	TC	R2
3.000	3.500	0.252	SB	G2
3.000	3.500	0.252	SC	R2
3.000	3.500	0.252	WPB	G4
3.000	3.750	0.374	DC	R2
3.000	3.750	0.374	SC	R2
3.000	3.750	0.374	TA2	G2
3.000	3.750	0.374	TC	R2
3.000	3.750	0.437	TC	RS
3.000	3.751	0.374	TB2	PPA
3.000	3.751	0.437	TB2	P2
3.000	3.751	0.500	SA2	G2
3.000	3.751	0.500	TA2	PPA

Shaft	Bore	Width	Lip Style	Material
3.000	3.875	0.437	SB2	C2
3.000	3.875	0.437	TA2	P2
3.000	3.875	0.437	TB2	G2
3.000	3.875	0.437	TC	R2
3.000	3.875	0.469	SA2	PV
3.000	3.875	0.469	SA2	GV
3.000	3.875	0.472	SA2	P2
3.000	3.875	0.500	TB2	G2
3.000	3.876	0.311	SB2	PV
3.000	4.000	0.374	SC	R2
3.000	4.000	0.437	TB2	C2
3.000	4.000	0.437	TC	R2
3.000	4.000	0.437	TC	R2
3.000	4.000	0.469	SA2	G2
3.000	4.000	0.469	SB2	G2
3.000	4.000	0.500	SC	R2
3.000	4.000	0.500	TC	R2
3.000	4.003	0.374	SA2	P2
3.000	4.003	0.374	TA2	P2
3.000	4.003	0.437	TA2	CPA
3.000	4.003	0.437	TA2	P2
3.000	4.003	0.454	SA2	P2
3.000	4.003	0.469	SA2	P2
3.000	4.003	0.469	TA2	PPA
3.000	4.003	0.469	TA2	GV
3.000	4.003	0.500	WPB	G4
3.000	4.125	0.437	SA2	P2
3.000	4.125	0.437	SC	R2
3.000	4.125	0.500	SC	R2
3.000	4.249	0.469	TA2	P2
3.000	4.250	0.437	TB2	G2
3.000	4.250	0.500	SC	R2
3.000	4.250	0.625	SA2	G2
3.000	4.331	0.500	TA2	P2
3.000	4.500	0.437	SA2	P2
3.000	4.500	0.437	TA2	P2
3.000	4.500	0.469	TA2	P2
3.000	5.000	0.437	TA2	P2
3.031	3.370	0.189	SB	G2
3.031	3.661	0.394	TB	G2
3.031	3.760	0.374	SC	R2
3.031	3.937	0.394	TC	R2
3.031	3.937	0.512	TB2	G2
3.040	3.937	0.252	SC	R2
3.050	3.437	0.220	VC	RV
3.063	4.125	0.500	TC	R2
3.071	3.740	0.154	VB	G2
3.071	3.740	0.512	TC	R2
3.071	3.878	0.472	TA2	G3
3.071	3.937	0.394	SC	R2
3.071	3.937	0.512	TC	R2
3.071	4.134	0.512	TC	R2
3.071	4.252	0.512	TA2	PPA
3.071	4.331	0.472	SC	R2

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Shaft	Bore	Width	Lip Style	Material
3.071	4.331	0.472	TC	R2
3.071	4.331	0.512	SC	R2
3.071	4.331	0.512	TC	R2
3.071	4.528	0.394	TC	R2
3.109	3.766	0.437	TC	RS
3.109	4.450	0.394	SB2	C2
3.110	3.750	0.437	SC	R2
3.125	3.750	0.313	WPB	G4
3.125	3.875	0.402	TC	R2
3.125	3.898	0.370	SBR	C2
3.125	3.937	0.516	SA2	PV
3.125	4.000	0.469	TA2	CPA
3.125	4.000	0.500	SC	R2
3.125	4.000	0.500	TA2	G2
3.125	4.000	0.790	DA2	C2
3.125	4.003	0.374	TA2	P2
3.125	4.003	0.374	TB2	C2
3.125	4.125	0.374	SC	R2
3.125	4.125	0.437	TA2	CS
3.125	4.125	0.500	SC	R2
3.125	4.125	0.500	TA2	P2
3.125	4.125	0.563	TB2	GS
3.125	4.173	0.291	KB2	C2
3.125	4.250	0.468	SA2	G2
3.125	4.250	0.500	TA2	G2
3.125	4.375	0.500	TA2	P2
3.125	4.500	0.500	SC	R2
3.125	4.500	0.500	TA2	P2
3.125	4.500	0.625	SC	R2
3.125	4.500	0.626	TA2	G2
3.125	4.626	0.437	TA2	P2
3.125	5.000	0.468	TA2	P2
3.125	5.004	0.437	SA2	P2
3.125	5.251	0.437	SA2	P2
3.150	3.543	0.134	VC	RV
3.150	3.543	0.197	VC	RV
3.150	3.543	0.394	TC	R2
3.150	3.740	0.197	SC	R2
3.150	3.740	0.315	TC	R2
3.150	3.740	0.394	TC	R2
3.150	3.858	0.394	TC	R2
3.150	3.937	0.276	VC	RV
3.150	3.937	0.315	TC	R2
3.150	3.937	0.394	DC	R2
3.150	3.937	0.394	SC	RV
3.150	3.937	0.394	SC	R2
3.150	3.937	0.394	TB2	CV
3.150	3.937	0.394	TC	RV
3.150	3.937	0.394	TC	R2
3.150	3.937	0.472	DC	R2
3.150	3.937	0.472	SC	R2
3.150	3.937	0.472	TA2	G2
3.150	3.937	0.472	TC	R2
3.150	3.937	0.512	SB2	G2

Shaft	Bore	Width	Lip Style	Material
3.150	3.937	0.512	SC	R2
3.150	3.937	0.512	TA2	G2
3.150	3.937	0.512	TB2	PS
3.150	3.937	0.512	TC	R2
3.150	4.134	0.394	SC	R2
3.150	4.134	0.394	TC	R2
3.150	4.134	0.472	DC	R2
3.150	4.134	0.472	TC	R2
3.150	4.134	0.512	KC	R2
3.150	4.134	0.512	SB2	GS
3.150	4.134	0.512	SC	R2
3.150	4.134	0.512	TB2	G2
3.150	4.134	0.512	TC	R2
3.150	4.134	0.591	TB2	G2
3.150	4.134	0.787	DB2	G2
3.150	4.252	0.512	TA2	G3
3.150	4.331	0.394	SC	R2
3.150	4.331	0.394	TC	R2
3.150	4.331	0.472	SC	R2
3.150	4.331	0.472	TC	R2
3.150	4.331	0.512	TA2	G2
3.150	4.331	0.512	TB2	GPA
3.150	4.331	0.512	TB2	G2
3.150	4.331	0.512	TC	R2
3.150	4.528	0.236	KB2	C2
3.150	4.528	0.394	SC	R2
3.150	4.528	0.394	TC	R2
3.150	4.528	0.472	TC	R2
3.150	4.528	0.512	TC	R2
3.150	4.528	0.591	TB2	G2
3.150	4.646	0.472	TC	R2
3.150	4.685	0.472	TC	R2
3.150	4.724	0.472	SC	R2
3.150	4.724	0.512	SC	R2
3.150	4.724	0.512	TB2	G2
3.150	4.724	0.512	TC	R2
3.150	4.921	0.394	TC	R2
3.150	4.921	0.472	SC	R2
3.150	4.921	0.472	TC	R2
3.150	4.921	0.512	TC	R2
3.150	4.921	0.551	TC	R2
3.150	5.118	0.512	TA2	G3
3.150	5.118	0.512	TC	R2
3.150	5.197	0.591	TC	R2
3.150	5.512	0.472	TC	R2
3.150	5.512	0.512	TC	R2
3.187	4.250	0.311	SC	R2
3.187	4.250	0.500	SC	R2
3.187	4.625	0.563	SA2	G2
3.187	4.750	0.500	SA2	C2
3.228	3.937	0.512	TB	GPA
3.228	3.937	0.512	TC	R2
3.228	4.134	0.394	TC	R2
3.228	4.134	0.472	TC	R2

Shaft	Bore	Width	Lip Style	Material
3.228	4.134	0.512	TC	R2
3.228	4.252	0.512	TA2	G3
3.228	4.331	0.472	SC	R2
3.228	4.331	0.512	SC	R2
3.228	4.508	0.512	TA2	G3
3.228	4.528	0.512	TC	R2
3.232	4.125	0.563	SA2	P2
3.250	3.625	0.189	VBR	P2
3.250	3.750	0.252	WPB	G4
3.250	3.940	0.252	TB	G2
3.250	4.000	0.374	SB2	C2
3.250	4.000	0.469	TA2	P2
3.250	4.000	0.500	TC	R2
3.250	4.003	0.469	TA2	CPA
3.250	4.240	0.500	TA2	P2
3.250	4.249	0.374	TA2	C2
3.250	4.249	0.437	TA2	P2
3.250	4.249	0.469	TA2	CPA
3.250	4.250	0.374	TB2	P2
3.250	4.250	0.469	SA2	P2
3.250	4.250	0.500	SC	RV
3.250	4.250	0.500	TC	R2
3.250	4.250	0.500	WPB	G4
3.250	4.376	0.500	TA2	P2
3.250	4.500	0.500	SC	R2
3.250	4.500	0.500	TB2	G2
3.250	4.625	0.500	SC	R2
3.250	4.626	0.437	SA2	P2
3.250	4.632	0.500	TA2	P2
3.250	4.750	0.500	SC	R2
3.250	5.500	0.500	TA2	PPA
3.268	4.094	0.354	TC	R2
3.268	4.331	0.512	TC	R2
3.268	4.606	0.551	TC	R2
3.307	3.937	0.394	SC	R2
3.307	3.937	0.394	TB	G2
3.307	3.937	0.394	TC	R2
3.307	4.375	0.661	SA2	P2
3.312	4.751	0.500	TA2	P2
3.313	4.249	0.500	TA2	P2
3.313	4.687	0.437	TC	R2
3.344	4.281	0.421	TB2	CS
3.346	3.740	0.197	WPC	R4
3.346	3.937	0.236	SC	R2
3.346	3.937	0.354	SC	R2
3.346	3.937	0.354	TC	R2
3.346	3.937	0.394	TC	R2
3.346	3.937	0.472	TB	G2
3.346	3.937	0.472	TC	R2
3.346	3.937	0.512	SB	G2
3.346	3.937	0.512	TC	R2
3.346	4.016	0.472	TC	R2
3.346	4.134	0.394	SC	R2
3.346	4.134	0.394	TB2	G2

Shaft	Bore	Width	Lip Style	Material
3.346	4.134	0.394	TC	R2
3.346	4.134	0.472	SB2	GS
3.346	4.134	0.472	TB	G2
3.346	4.134	0.472	TC	R2
3.346	4.134	0.512	SC	R2
3.346	4.134	0.512	TA2	G2
3.346	4.134	0.512	TC	R2
3.346	4.134	0.591	SB2	G2
3.346	4.331	0.394	SC	R2
3.346	4.331	0.472	SC	R2
3.346	4.331	0.472	TC	R2
3.346	4.331	0.512	SB2	G2
3.346	4.331	0.512	SC	R2
3.346	4.331	0.512	TB2	G2
3.346	4.331	0.512	TC	R2
3.346	4.331	0.551	TB2	G2
3.346	4.370	0.394	TC	R2
3.346	4.508	0.472	TC	R2
3.346	4.508	0.512	TA2	G2
3.346	4.528	0.472	TC	R2
3.346	4.528	0.512	SC	R2
3.346	4.528	0.512	TC	R2
3.346	4.528	0.591	SC	R2
3.346	4.528	0.591	TC	R2
3.346	4.724	0.394	TC	R2
3.346	4.724	0.472	SC	R2
3.346	4.724	0.472	TC	R2
3.346	4.724	0.512	TC	R2
3.346	4.724	0.591	TC	R2
3.346	4.921	0.472	TC	R2
3.346	4.921	0.512	TC	R2
3.346	4.921	0.551	TC	R2
3.346	5.000	0.512	TA2	G2
3.346	5.118	0.394	TC	R2
3.346	5.118	0.472	SC	R2
3.346	5.118	0.472	TC	R2
3.346	5.118	0.512	TC	R2
3.346	5.118	0.551	TC	R2
3.346	5.512	0.472	TC	R2
3.346	5.906	0.472	TC	R2
3.375	3.875	0.374	VC	R2
3.375	3.948	0.374	TC	R2
3.375	4.000	0.500	SC	R2
3.375	4.250	0.500	SA2	P2
3.375	4.374	0.437	TA2	CPA
3.375	4.374	0.626	SA2	G2
3.375	4.374	0.626	TA2	G2
3.375	4.375	0.500	SA2	P2
3.375	4.375	0.500	TC	R2
3.375	4.376	0.374	TB2	P2
3.375	4.376	0.374	TB2	P2
3.375	4.376	0.374	TBR	P2
3.375	4.626	0.437	SA2	P2
3.375	4.633	0.374	TC	R2

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Shaft	Bore	Width	Lip Style	Material
3.375	4.751	0.374	TB2	P2
3.375	4.999	0.469	TA2	P2
3.375	5.000	0.469	TB2	GPA
3.375	5.000	0.500	SC	R2
3.375	5.125	0.500	SA2	G2
3.386	3.937	0.394	TC	R2
3.386	3.961	0.236	VC	R2
3.386	4.724	0.394	DC	R2
3.437	4.250	0.374	SC	R2
3.437	4.500	0.500	SC	R2
3.437	4.500	0.500	TB2	G2
3.437	4.501	0.374	TB2	P2
3.437	4.625	0.500	TA2	GV
3.437	4.750	0.500	SC	R2
3.437	4.756	0.562	TA2	P2
3.465	4.094	0.394	TC	R3
3.465	4.173	0.394	TC	R2
3.465	4.252	0.433	TC	R2
3.465	4.331	0.472	SC	R2
3.465	4.528	0.512	TA2	G2
3.465	6.299	0.512	TC	R2
3.500	3.875	0.189	WPB	G4
3.500	4.000	0.311	TC	R2
3.500	4.000	0.311	WPB	G4
3.500	4.003	0.252	WPB	G4
3.500	4.005	0.252	SB	C2
3.500	4.125	0.374	SC	R2
3.500	4.250	0.500	TC	R2
3.500	4.291	0.252	TC	R2
3.500	4.375	0.374	SC	R2
3.500	4.375	0.500	SC	R2
3.500	4.375	0.500	TA2	P2
3.500	4.499	0.469	SA2	P2
3.500	4.500	0.374	SB2	PPA
3.500	4.500	0.437	SB2	P2
3.500	4.500	0.437	TA2	G2
3.500	4.500	0.469	TB2	CPA
3.500	4.500	0.500	SC	R2
3.500	4.500	0.500	TC	R2
3.500	4.500	0.500	WPB	G4
3.500	4.501	0.469	TA2	CPA
3.500	4.625	0.500	SA2	C2
3.500	4.625	0.500	TC	R2
3.500	4.626	0.625	TA2	C2
3.500	4.750	0.500	TC	R2
3.500	4.750	0.625	TB2	G2
3.500	4.750	0.626	TC	R2
3.500	4.751	0.375	TB2	PPA
3.500	4.751	0.437	TA2	PH
3.500	4.752	0.374	TB2	PPA
3.500	4.999	0.437	TA2	PPA
3.500	5.000	0.469	SB2	P2
3.500	5.000	0.469	SC	R2
3.500	5.126	0.500	TA2	P2

Shaft	Bore	Width	Lip Style	Material
3.500	5.126	0.626	TB2	PPA
3.500	5.250	0.437	SA2	P2
3.500	5.250	0.626	SC	R2
3.500	5.375	0.500	SC	R2
3.500	6.375	0.374	SB2	G2
3.504	4.134	0.374	SC	RS
3.543	3.937	0.197	VB	G2
3.543	3.937	0.276	TC	R2
3.543	3.937	0.472	TC	R2
3.543	4.134	0.236	TC	RV
3.543	4.134	0.236	VC	R2
3.543	4.134	0.394	TC	R2
3.543	4.134	0.394	VC	R4
3.543	4.134	0.472	TC	R2
3.543	4.134	0.512	TC	R2
3.543	4.173	0.472	SC	R2
3.543	4.331	0.315	TC	R2
3.543	4.331	0.394	SC	R2
3.543	4.331	0.394	TC	R2
3.543	4.331	0.472	SC	R2
3.543	4.331	0.472	TA2	G2
3.543	4.331	0.472	TC	R2
3.543	4.331	0.512	SC	R2
3.543	4.331	0.512	TA2	G2
3.543	4.331	0.512	TB	G2
3.543	4.331	0.512	TC	R2
3.543	4.331	0.591	TA2	G2
3.543	4.409	0.472	TC	R2
3.543	4.437	0.500	TA2	GS
3.543	4.437	0.512	TA2	G2
3.543	4.437	0.512	TC	R2
3.543	4.528	0.354	SC	R2
3.543	4.528	0.394	TC	R2
3.543	4.528	0.472	TC	R2
3.543	4.528	0.488	TB2	P2
3.543	4.528	0.512	SB2	G2
3.543	4.528	0.512	SC	R2
3.543	4.528	0.512	TB2	G2
3.543	4.528	0.512	TC	R2
3.543	4.528	0.512	TC	R2
3.543	4.528	0.787	DB2	G2
3.543	4.646	0.472	TA2	G2
3.543	4.646	0.472	TA2	C2
3.543	4.646	0.472	TB2	G2
3.543	4.646	0.472	TC	R2
3.543	4.724	0.394	TC	R2
3.543	4.724	0.472	SC	R2
3.543	4.724	0.472	TC	R2
3.543	4.724	0.512	TA2	G2
3.543	4.724	0.512	TB2	G2
3.543	4.724	0.512	TC	R2
3.543	4.724	0.591	TA2	G2
3.543	4.921	0.472	TC	R2
3.543	4.921	0.512	TC	R2
3.543	4.921	0.591	TC	R2

Shaft	Bore	Width	Lip Style	Material
3.543	4.921	0.669	TB2	G2
3.543	5.000	0.512	TB2	G3
3.543	5.118	0.394	TC	R2
3.543	5.118	0.472	SC	R2
3.543	5.118	0.472	TC	R2
3.543	5.118	0.512	TA2	P3
3.543	5.118	0.512	TC	R2
3.543	5.118	0.591	TA2	G2
3.543	5.315	0.512	TC	R2
3.543	5.315	0.591	TA2	G2
3.543	5.512	0.472	TC	R2
3.543	5.512	0.512	SC	R2
3.543	6.299	0.394	TC	R3
3.583	4.370	0.394	TC	R3
3.622	4.252	0.315	TC	R2
3.622	4.331	0.394	SC	R2
3.622	4.331	0.394	TC	R2
3.622	4.724	0.472	TC	R2
3.622	4.744	0.512	TB2	G2
3.625	4.499	0.469	TA2	P2
3.625	4.500	0.500	SC	R2
3.625	4.625	0.500	TC	R2
3.625	4.626	0.437	TA2	C2
3.625	4.750	0.500	TB2	PS
3.625	4.751	0.500	TA2	P2
3.625	4.875	0.626	TA2	G2
3.625	4.999	0.500	TA2	P2
3.625	5.000	0.374	TB2	P2
3.625	5.000	0.500	TC	R2
3.650	4.375	0.437	TC	RV
3.654	4.750	0.370	KBR	C2
3.656	4.750	0.500	TC	R2
3.685	5.622	0.500	SC	R2
3.687	4.750	0.500	SC	R2
3.687	5.125	0.500	TB2	G2
3.687	5.125	0.500	TC	R2
3.687	5.625	0.500	TC	R2
3.701	4.488	0.197	SB2	G2
3.701	4.488	0.276	SB2	G2
3.701	6.693	0.315	TC	R2
3.740	4.134	0.512	TC	R2
3.740	4.331	0.236	SC	R2
3.740	4.331	0.394	SC	R2
3.740	4.331	0.394	TC	R2
3.740	4.331	0.433	TC	R2
3.740	4.331	0.472	SC	RV
3.740	4.331	0.472	TC	R2
3.740	4.331	0.512	TC	R2
3.740	4.528	0.394	SB2	C2
3.740	4.528	0.394	TC	R3
3.740	4.528	0.472	TA2	G2
3.740	4.528	0.472	TB2	P2
3.740	4.528	0.472	TC	R2
3.740	4.528	0.512	SC	R2

Shaft	Bore	Width	Lip Style	Material
3.740	4.528	0.512	TA2	G2
3.740	4.528	0.512	TC	R2
3.740	4.724	0.315	SC	R2
3.740	4.724	0.315	TC	R2
3.740	4.724	0.394	TC	RV
3.740	4.724	0.472	DC	R2
3.740	4.724	0.472	SC	R2
3.740	4.724	0.472	TA2	G2
3.740	4.724	0.472	TC	R2
3.740	4.724	0.512	SB2	G2
3.740	4.724	0.512	SC	R2
3.740	4.724	0.512	TB2	G2
3.740	4.724	0.512	TC	R2
3.740	4.724	0.669	DA2	P2
3.740	4.724	0.689	DA2	GS
3.740	4.921	0.472	SC	R2
3.740	4.921	0.472	TC	R2
3.740	4.921	0.512	DC	R2
3.740	4.921	0.512	SA2	G2
3.740	4.921	0.512	TA2	G3
3.740	4.921	0.512	TB2	G2
3.740	4.921	0.512	TC	R2
3.740	4.921	0.512	TB2	G2
3.740	5.000	0.512	TB2	G2
3.740	5.039	0.492	TA2	G2
3.740	5.118	0.472	SC	R2
3.740	5.118	0.472	TC	R2
3.740	5.118	0.512	SA2	G2
3.740	5.118	0.512	TA2	G3
3.740	5.118	0.512	TB2	G2
3.740	5.118	0.512	TC	R2
3.740	5.118	0.591	TBR	G2
3.740	5.118	0.591	TC	R2
3.740	5.315	0.472	TC	R2
3.740	5.315	0.512	TC	R2
3.740	5.315	0.512	VC	R2
3.740	5.354	0.472	TC	R2
3.740	5.709	0.394	SC	R2
3.740	5.709	0.512	TC	R2
3.740	6.693	0.512	TC	R2
3.750	4.500	0.437	TC	R2
3.750	4.500	0.469	TA2	PPA
3.750	4.500	0.500	SC	R2
3.750	4.501	0.362	SC	RV
3.750	4.625	0.492	VB2	G2
3.750	4.626	0.500	TA2	P2
3.750	4.750	0.374	SC	R2
3.750	4.750	0.500	SA2	G2
3.750	4.750	0.500	SB2	G2
3.750	4.750	0.500	SC	R2
3.750	4.750	0.500	TC	R2
3.750	4.751	0.374	TB2	P2
3.750	4.751	0.500	TA2	P2
3.750	4.999	0.374	TB2	PV
3.750	4.999	0.469	SA2	P2



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Shaft	Bore	Width	Lip Style	Material
3.750	5.000	0.500	SC	R2
3.750	5.146	0.303	TC	R2
3.750	5.250	0.437	TA2	P2
3.750	5.375	0.500	TB2	C2
3.750	5.376	0.500	TA2	P2
3.780	4.350	0.236	VC	R2
3.780	4.488	0.472	TB	C2
3.780	5.335	0.472	TB2	G2
3.812	4.876	0.500	TA2	P2
3.813	4.875	0.500	TC	R2
3.819	4.488	0.472	TB	G2
3.858	4.724	0.512	SC	R2
3.858	4.724	0.512	TC	R2
3.858	5.118	0.512	TA2	G2
3.858	5.118	0.512	TA2	G2
3.858	5.709	0.748	TA2	G2
3.875	4.750	0.500	SA2	P2
3.875	4.875	0.500	SA2	P2
3.875	4.875	0.500	TC	R2
3.875	5.000	0.374	SB2	C2
3.875	5.000	0.469	SA2	P2
3.875	5.000	0.500	SC	R2
3.875	5.250	0.437	SA2	G2
3.875	5.251	0.437	TA2	P2
3.875	5.689	0.752	SB2	C2
3.880	5.118	0.787	SB	C2
3.937	4.331	0.394	SC	R2
3.937	4.331	0.472	TC	R2
3.937	4.404	0.354	TC	R2
3.937	4.488	0.276	TB	G2
3.937	4.488	0.394	TC	R2
3.937	4.488	0.472	TB	G2
3.937	4.528	0.354	TC	R2
3.937	4.528	0.394	TC	R2
3.937	4.528	0.472	TC	R2
3.937	4.528	0.512	TC	R2
3.937	4.646	0.394	TC	R2
3.937	4.724	0.295	SC	RV
3.937	4.724	0.315	SB2	G2
3.937	4.724	0.394	SC	R2
3.937	4.724	0.394	TB	G2
3.937	4.724	0.394	TC	R2
3.937	4.724	0.433	SC	R2
3.937	4.724	0.433	TC	RPA
3.937	4.724	0.472	SC	R2
3.937	4.724	0.472	TC	RPA
3.937	4.724	0.472	TC	R2
3.937	4.724	0.512	SC	R2
3.937	4.724	0.512	TC	R2
3.937	4.825	0.394	SC	RS
3.937	4.835	0.787	DBR	C2
3.937	4.921	0.394	TC	R2
3.937	4.921	0.472	SC	R2
3.937	4.921	0.472	TC	R2

Shaft	Bore	Width	Lip Style	Material
3.937	4.921	0.512	SB2	G2
3.937	4.921	0.512	TA2	G2
3.937	4.921	0.512	TB2	G2
3.937	4.921	0.512	TC	R2
3.937	5.000	0.315	SA2	CPA
3.937	5.000	0.394	TC	R2
3.937	5.000	0.472	TA2	GV
3.937	5.000	0.500	DC	R2
3.937	5.000	0.500	TC	R2
3.937	5.000	0.512	TB2	G2
3.937	5.118	0.394	TC	R2
3.937	5.118	0.472	SB2	P2
3.937	5.118	0.472	SC	R2
3.937	5.118	0.472	TC	R2
3.937	5.118	0.512	DC	RV
3.937	5.118	0.512	TA2	G3
3.937	5.118	0.512	TC	R2
3.937	5.118	0.551	TC	R2
3.937	5.315	0.394	TC	R2
3.937	5.315	0.472	TC	R2
3.937	5.315	0.512	TC	R2
3.937	5.315	0.551	SC	R2
3.937	5.315	0.551	TC	R2
3.937	5.315	0.591	TC	R2
3.937	5.376	0.500	TA2	P2
3.937	5.512	0.472	SC	R2
3.937	5.512	0.472	TC	R2
3.937	5.512	0.512	SC	R2
3.937	5.512	0.512	TC	R2
3.937	5.709	0.551	TC	R2
3.937	5.906	0.394	TC	R2
3.937	5.906	0.472	SC	R2
3.937	5.906	0.472	TC	R2
3.937	5.906	0.512	SC	R2
3.937	5.906	0.512	TC	R2
3.937	5.984	0.472	KC	R2
3.937	6.102	0.551	TC	R2
3.937	6.102	0.630	TC	R2
3.937	6.299	0.472	TC	RV
3.937	6.693	0.591	TC	R2
3.937	7.087	0.472	TC	R2
3.976	4.488	0.394	TB	G2
3.990	5.375	0.500	TBR	G2
4.000	4.500	0.252	SB	C2
4.000	4.500	0.252	VB2	P2
4.000	4.562	0.374	SBR	CPA
4.000	4.665	0.087	VB	C2
4.000	4.750	0.500	SC	R2
4.000	5.000	0.311	SA2	CV
4.000	5.000	0.311	SC	R2
4.000	5.000	0.374	TB2	G2
4.000	5.000	0.402	TB2	P2
4.000	5.000	0.417	SA2	CV
4.000	5.000	0.437	TA2	GPA

Shaft	Bore	Width	Lip Style	Material
4.000	5.000	0.500	DC	R2
4.000	5.000	0.500	SA2	P2
4.000	5.000	0.500	SC	R2
4.000	5.000	0.500	TA2	P2
4.000	5.000	0.500	TB2	G2
4.000	5.000	0.500	TC	R2
4.000	5.125	0.311	SA2	CS
4.000	5.125	0.311	SA2	GS
4.000	5.125	0.500	SC	R2
4.000	5.250	0.374	SA2	P2
4.000	5.250	0.374	TA2	P2
4.000	5.250	0.469	TA2	PPA
4.000	5.250	0.626	SC	R2
4.000	5.251	0.437	SA2	P2
4.000	5.375	0.500	TA2	P2
4.000	5.500	0.500	TC	R2
4.000	5.625	0.437	SA2	P2
4.000	5.750	0.500	SC	R2
4.000	5.999	0.500	TA2	P2
4.000	6.250	0.500	TA2	P2
4.016	5.118	0.512	TC	R2
4.094	5.512	0.472	TA2	G2
4.125	4.999	0.469	SA2	P2
4.125	5.000	0.500	TA2	G2
4.125	5.500	0.563	DA2	P2
4.126	5.000	0.437	SA2	G2
4.134	4.724	0.512	SC	R2
4.134	4.724	0.512	TC	R2
4.134	4.921	0.394	TC	R2
4.134	4.921	0.472	TC	R2
4.134	4.921	0.512	SA2	G2
4.134	4.921	0.512	SC	R2
4.134	4.921	0.512	TB	G2
4.134	4.921	0.512	TC	R2
4.134	4.921	0.630	TB2	C2
4.134	5.118	0.472	DC	R2
4.134	5.118	0.472	SC	R2
4.134	5.118	0.472	TC	R2
4.134	5.118	0.512	SA2	G2
4.134	5.118	0.512	TA2	G3
4.134	5.118	0.512	TC	R2
4.134	5.118	0.591	TC	R2
4.134	5.315	0.472	TC	R2
4.134	5.315	0.512	TA2	G3
4.134	5.315	0.512	TC	R2
4.134	5.315	0.551	SB2	G2
4.134	5.315	0.551	TB2	G2
4.134	5.315	0.551	TC	R2
4.134	5.315	0.591	TC	R2
4.134	5.315	0.630	SC	R2
4.134	5.374	0.591	TA2	PPA
4.134	5.512	0.472	SC	R2
4.134	5.512	0.472	TC	R2
4.134	5.512	0.512	TC	R2

Shaft	Bore	Width	Lip Style	Material
4.134	5.512	0.551	SC	R2
4.134	5.512	0.591	TC	R2
4.134	5.709	0.472	TC	R2
4.134	5.709	0.551	TC	R2
4.134	5.709	0.591	TC	R2
4.134	5.906	0.591	SC	R2
4.134	6.299	0.472	SC	R2
4.134	6.299	0.472	TC	R2
4.156	5.000	0.500	SA2	PS
4.173	4.961	0.472	TC	R2
4.187	4.999	0.374	TA2	P2
4.187	5.250	0.500	TC	R2
4.187	5.251	0.469	SA2	C2
4.250	4.756	0.311	WPB	G4
4.250	5.000	0.500	SC	R2
4.250	5.250	0.374	SA2	P2
4.250	5.250	0.500	SC	R2
4.250	5.250	0.500	TA2	C2
4.250	5.250	0.500	WPB	G4
4.250	5.251	0.374	TB2	P2
4.250	5.372	0.500	SC	R2
4.250	5.375	0.500	SA2	G2
4.250	5.376	0.500	TA2	P2
4.250	5.500	0.500	SA2	P2
4.250	5.500	0.500	SC	R2
4.250	5.500	0.563	SC	R2
4.250	5.524	0.366	TC	R2
4.250	5.625	0.500	TB2	P2
4.250	5.999	0.500	TA2	P2
4.250	6.000	0.563	SC	R2
4.250	6.000	0.563	TC	R2
4.250	6.000	0.752	SC	R2
4.252	5.512	0.512	TA2	G2
4.331	4.921	0.315	TBR	G2
4.331	4.921	0.472	TC	R2
4.331	5.039	0.354	TA2	P3
4.331	5.118	0.394	SC	R2
4.331	5.118	0.472	SC	R2
4.331	5.118	0.472	TC	R2
4.331	5.118	0.512	SC	R2
4.331	5.118	0.512	TA2	G3
4.331	5.118	0.512	TB	G2
4.331	5.118	0.512	TC	R2
4.331	5.118	0.551	TC	R2
4.331	5.177	0.425	SC	R2
4.331	5.236	0.512	TA2	G3
4.331	5.315	0.394	TC	R2
4.331	5.315	0.472	SC	R2
4.331	5.315	0.472	TC	R2
4.331	5.315	0.512	TB2	G2
4.331	5.315	0.512	TC	R2
4.331	5.315	0.551	TB2	G2
4.331	5.512	0.472	SC	R2
4.331	5.512	0.472	TC	R2



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Shaft	Bore	Width	Lip Style	Material
4.331	5.512	0.512	SA2	G2
4.331	5.512	0.512	TA2	G2
4.331	5.512	0.512	TC	R2
4.331	5.512	0.551	TB2	G2
4.331	5.512	0.551	TBR	G2
4.331	5.512	0.551	TC	R2
4.331	5.512	0.866	DB2	GP
4.331	5.591	0.551	TC	R2
4.331	5.709	0.512	TC	R2
4.331	5.709	0.551	TC	R2
4.331	5.709	0.591	TC	R2
4.331	5.709	0.630	TA2	G2
4.331	5.768	0.512	TC	R3
4.331	5.906	0.512	SC	R2
4.331	5.906	0.512	TA2	GV
4.331	5.906	0.512	TC	R2
4.331	5.906	0.551	TC	R2
4.331	5.906	0.591	TA2	G2
4.331	6.004	0.591	TA2	P3
4.331	6.299	0.472	TC	R2
4.331	6.299	0.551	TC	R2
4.331	6.299	0.630	TA2	G2
4.331	6.496	0.472	TC	RV
4.331	6.575	0.669	TC	R2
4.331	6.693	0.472	TC	R2
4.374	6.000	0.500	SA2	P2
4.375	5.375	0.500	DC	R2
4.375	5.375	0.500	SC	R2
4.375	6.000	0.500	TC	R2
4.375	6.250	0.563	SA2	P2
4.409	5.512	0.512	TC	R2
4.409	5.591	0.551	TC	R2
4.488	5.228	0.315	SB2	CV
4.488	5.315	0.512	TB	G2
4.496	5.001	0.252	SB	P2
4.500	5.250	0.374	SC	R2
4.500	5.500	0.252	VB2	C2
4.500	5.500	0.374	SC	R2
4.500	5.500	0.437	TA2	P2
4.500	5.500	0.500	SA2	P2
4.500	5.500	0.500	SC	R2
4.500	5.500	0.500	TC	R2
4.500	5.500	0.563	SA2	G2
4.500	5.501	0.374	TB2	P2
4.500	5.625	0.500	SC	R2
4.500	5.751	0.500	TB2	PPA
4.500	6.000	0.500	SA2	P2
4.500	6.000	0.500	TC	R2
4.500	6.125	0.563	TC	R2
4.500	6.250	0.500	SA2	C2
4.500	6.250	0.500	TA2	P2
4.500	6.250	0.563	SA2	P2
4.500	6.252	0.563	TA2	G2
4.528	5.118	0.472	SC	R2

Shaft	Bore	Width	Lip Style	Material
4.528	5.118	0.472	TC	R2
4.528	5.315	0.394	SC	R2
4.528	5.315	0.512	SB	G2
4.528	5.315	0.512	SC	R2
4.528	5.315	0.512	TC	R2
4.528	5.512	0.394	TB2	G3
4.528	5.512	0.472	SC	RV
4.528	5.512	0.472	SC	R2
4.528	5.512	0.472	TC	R2
4.528	5.512	0.512	SB2	G2
4.528	5.512	0.512	SC	R2
4.528	5.512	0.512	TB2	G2
4.528	5.512	0.512	TC	R2
4.528	5.512	0.551	TC	R2
4.528	5.512	0.591	TC	R2
4.528	5.709	0.512	TC	R2
4.528	5.709	0.551	SB2	G2
4.528	5.709	0.551	TB2	G2
4.528	5.709	0.551	TC	R2
4.528	5.709	0.630	TC	R2
4.528	5.768	0.512	TC	R3
4.528	5.906	0.472	SC	R2
4.528	5.906	0.472	TC	R2
4.528	5.906	0.551	TC	R2
4.528	5.906	0.591	TA2	G2
4.528	5.906	0.591	TC	R2
4.528	5.906	0.630	TC	R2
4.528	6.004	0.591	TA2	G2
4.528	6.260	0.551	TC	R2
4.528	6.299	0.591	TC	R2
4.528	6.693	0.472	TA2	G2
4.528	6.693	0.472	TC	R2
4.528	7.106	0.512	SC	R2
4.562	5.751	0.500	TA2	C2
4.567	5.197	0.472	TC	RPA
4.567	6.102	0.472	TA2	G2
4.623	5.637	0.500	TC	R2
4.625	5.500	0.500	TB2	G2
4.625	5.625	0.500	SC	R2
4.625	6.000	0.500	TC	R2
4.625	6.000	0.874	SB2	G2
4.625	6.250	0.500	SA2	P2
4.625	6.250	0.563	TB2	C2
4.646	5.354	0.512	TB	G2
4.646	5.512	0.512	SC	R2
4.646	5.512	0.512	TB2	G3
4.687	5.750	0.500	SA2	G2
4.687	5.750	0.500	SA2	PS
4.687	5.750	0.500	SA2	PS
4.724	5.512	0.295	TC	RV
4.724	5.512	0.394	SC	R2
4.724	5.512	0.472	TBR	G2
4.724	5.512	0.472	TC	R2
4.724	5.512	0.512	SB	G2

Shaft	Bore	Width	Lip Style	Material
4.724	5.512	0.512	SC	R2
4.724	5.512	0.512	TA2	G2
4.724	5.512	0.512	TB	G2
4.724	5.512	0.512	TC	R2
4.724	5.512	0.551	TC	R2
4.724	5.512	0.591	TC	R2
4.724	5.709	0.472	TC	R2
4.724	5.709	0.512	TA2	G2
4.724	5.709	0.591	TA2	G2
4.724	5.709	0.591	TC	R2
4.724	5.748	0.512	TC	R2
4.724	5.768	0.512	TC	R3
4.724	5.906	0.472	SC	R2
4.724	5.906	0.472	TC	R2
4.724	5.906	0.512	SC	R2
4.724	5.906	0.512	TC	R2
4.724	5.906	0.551	SB2	G2
4.724	5.906	0.551	TB2	G2
4.724	5.906	0.551	TC	R2
4.724	5.906	0.591	TA2	G3
4.724	5.906	0.591	TC	R2
4.724	5.906	0.866	DB2	GP
4.724	6.102	0.551	TC	R2
4.724	6.102	0.591	TC	R2
4.724	6.102	0.630	TC	R2
4.724	6.260	0.551	TC	R2
4.724	6.270	0.591	SA2	P3
4.724	6.299	0.472	SC	R2
4.724	6.299	0.472	TC	R2
4.724	6.299	0.512	SC	R2
4.724	6.299	0.551	TC	R2
4.724	6.299	0.591	TA2	G3
4.724	6.299	0.591	TC	R2
4.724	6.378	0.551	TC	R2
4.724	6.496	0.551	TC	R2
4.724	6.693	0.472	TC	RV
4.724	7.087	0.591	TC	R2
4.724	7.874	0.551	TC	R2
4.724	8.465	0.591	TC	R2
4.750	5.500	0.374	SC	R2
4.750	5.750	0.500	SC	R2
4.750	5.750	0.500	TC	R2
4.750	5.750	0.500	WPB	G4
4.750	5.750	0.563	SA2	G2
4.750	5.751	0.500	TB2	PV
4.750	5.762	0.500	TC	R2
4.750	5.776	0.366	TC	R2
4.750	6.000	0.500	TB2	P2
4.750	6.000	0.563	DA2	P2
4.750	6.000	0.563	SC	R2
4.750	6.000	0.626	TA2	GPA
4.750	6.000	0.875	TB	G2
4.750	6.001	0.500	TA2	P2
4.803	5.512	0.512	TC	R2

Shaft	Bore	Width	Lip Style	Material
4.803	5.984	0.827	DB2	GP
4.813	5.563	0.406	SC	RS
4.813	5.647	0.677	DB2	CS
4.813	5.750	0.579	SA2	PS
4.813	5.750	0.579	SA2	PS
4.813	5.750	0.811	DA2	PS
4.875	5.750	0.437	TC	R2
4.875	6.000	0.374	TC	R2
4.875	6.000	0.500	SA2	P2
4.882	6.102	0.709	DA2	G2
4.882	6.260	0.551	TC	R2
4.882	6.693	0.571	TC	R2
4.921	5.512	0.276	VB	C2
4.921	5.630	0.512	TC	R2
4.921	5.709	0.472	TC	R2
4.921	5.709	0.512	TC	R2
4.921	5.709	0.551	TC	R2
4.921	5.768	0.512	TC	R3
4.921	5.906	0.472	SC	R2
4.921	5.906	0.472	TC	R2
4.921	5.906	0.512	DC	R2
4.921	5.906	0.512	SC	R2
4.921	5.906	0.512	TC	R2
4.921	5.906	0.551	TB2	G2
4.921	5.906	0.551	TC	R2
4.921	5.906	0.591	SA2	G2
4.921	5.906	0.591	TC	R2
4.921	5.984	0.472	TC	R2
4.921	6.000	0.591	TA2	G2
4.921	6.102	0.551	TB2	G2
4.921	6.102	0.551	TC	R2
4.921	6.102	0.866	DB	G2
4.921	6.270	0.551	SA2	P2
4.921	6.299	0.472	SC	R2
4.921	6.299	0.512	SC	R2
4.921	6.299	0.551	TC	R2
4.921	6.299	0.591	TC	R2
4.921	6.299	0.630	SC	R2
4.921	6.693	0.472	TB2	G2
4.921	6.890	0.512	TC	R3
4.937	6.000	0.500	DC	R2
4.937	6.000	0.500	TC	R2
4.937	6.250	0.500	TA2	P2
4.937	6.374	0.500	TA2	P2
4.996	5.500	0.252	VB	G2
5.000	5.750	0.437	TA2	G2
5.000	5.750	0.500	TC	R2
5.000	5.751	0.500	SB	PV
5.000	5.787	0.453	TB	G2
5.000	5.906	0.512	TC	R3
5.000	6.000	0.500	SC	R2
5.000	6.000	0.500	TA2	C2
5.000	6.000	0.500	WPB	G4
5.000	6.000	0.626	DA2	PV

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Shaft	Bore	Width	Lip Style	Material
5.000	6.003	0.500	TB2	PS
5.000	6.250	0.500	SA2	P2
5.000	6.250	0.500	TA2	C2
5.000	6.250	0.563	SA2	P2
5.000	6.250	0.563	SC	R2
5.000	6.375	0.500	TB2	G2
5.000	6.500	0.625	SA2	G2
5.000	6.750	0.563	SC	R2
5.000	7.500	0.500	TA2	P2
5.039	5.906	0.512	TC	R2
5.062	6.125	0.500	TB	G2
5.063	6.125	0.500	TC	R2
5.118	5.512	0.472	TC	R2
5.118	5.709	0.276	VB	G2
5.118	5.906	0.394	TB2	G2
5.118	5.906	0.394	TC	R2
5.118	5.906	0.472	TC	R2
5.118	5.906	0.512	TC	R2
5.118	6.102	0.394	SC	R2
5.118	6.102	0.394	TC	R3
5.118	6.102	0.551	TC	R2
5.118	6.299	0.472	SB2	G2
5.118	6.299	0.472	SC	R2
5.118	6.299	0.472	TC	R2
5.118	6.299	0.512	TC	R2
5.118	6.299	0.551	TA2	G2
5.118	6.299	0.551	TB2	G2
5.118	6.299	0.551	TC	R2
5.118	6.299	0.591	TC	R2
5.118	6.496	0.512	TC	R2
5.118	6.496	0.551	TC	R2
5.118	6.693	0.472	SC	R2
5.118	6.693	0.472	TC	R2
5.118	6.693	0.512	TC	R3
5.118	6.693	0.591	TA2	P2
5.118	6.693	0.591	TC	R2
5.118	7.087	0.512	TC	R3
5.118	7.165	0.630	SC	R2
5.118	7.480	0.472	TC	R2
5.118	7.874	0.472	TC	R2
5.118	7.874	0.591	SC	R2
5.125	6.125	0.500	SC	R2
5.157	5.709	0.276	TC	RV
5.197	6.299	0.551	TC	R2
5.250	6.250	0.252	WPB	G4
5.250	6.250	0.500	SA2	P2
5.250	6.250	0.500	SC	R2
5.250	6.500	0.626	SA2	PPA
5.250	6.500	0.626	SC	R2
5.276	5.984	0.433	TB	G2
5.313	6.500	1.031	DA2	PS
5.315	6.102	0.472	TC	R2
5.315	6.102	0.512	TC	R2

Shaft	Bore	Width	Lip Style	Material
5.315	6.299	0.472	SC	R2
5.315	6.299	0.512	SC	R2
5.315	6.299	0.512	TC	R3
5.315	6.299	0.591	SC	R2
5.315	6.299	0.591	TC	R2
5.315	6.378	0.512	TB2	G2
5.315	6.496	0.512	TA2	P2
5.315	6.496	0.512	TC	R2
5.315	6.496	0.551	TB2	G2
5.315	6.496	0.551	TC	R2
5.315	6.496	0.591	TA2	P3
5.315	6.496	0.591	TC	R2
5.315	6.693	0.472	SC	R2
5.315	6.693	0.472	TC	RV
5.315	6.693	0.591	SC	R2
5.315	6.693	0.591	TC	R2
5.315	6.890	0.472	TC	R2
5.315	6.890	0.591	TC	R2
5.374	5.876	0.193	VB	C2
5.375	6.500	0.500	SC	R2
5.375	6.625	0.563	TA2	P2
5.375	6.625	0.626	SA2	C2
5.433	5.984	0.472	TB	G2
5.433	6.299	0.591	TC	R2
5.472	6.693	0.551	TB2	G2
5.500	6.000	0.252	SB	G2
5.500	6.125	0.358	WPB	G4
5.500	6.250	0.500	SC	R2
5.500	6.500	0.500	SC	R2
5.500	6.500	0.500	TB2	G2
5.500	6.500	0.563	TA2	P2
5.500	6.749	0.625	TA2	GV
5.500	7.500	0.563	SA2	P2
5.512	6.299	0.394	TC	R2
5.512	6.299	0.472	SC	R2
5.512	6.299	0.472	TC	R2
5.512	6.299	0.512	SA2	G2
5.512	6.299	0.512	TC	R2
5.512	6.299	0.551	TB	G2
5.512	6.299	0.551	TC	R2
5.512	6.299	0.591	TC	R2
5.512	6.496	0.512	TC	R2
5.512	6.496	0.591	TC	R2
5.512	6.496	0.630	TB	G2
5.512	6.614	0.591	TA2	P3
5.512	6.614	0.591	TC	R2
5.512	6.693	0.472	SC	R2
5.512	6.693	0.472	TC	R2
5.512	6.693	0.512	TC	R2
5.512	6.693	0.551	SA2	G2
5.512	6.693	0.551	SB2	G2
5.512	6.693	0.551	TB2	G2
5.512	6.693	0.551	TC	R2
5.512	6.693	0.591	SC	R2

Shaft	Bore	Width	Lip Style	Material
5.512	6.693	0.591	TA2	P3
5.512	6.693	0.591	TC	R2
5.512	6.752	0.591	TA2	P3
5.512	6.890	0.512	TC	R2
5.512	6.890	0.591	TC	R2
5.512	7.087	0.394	SC	R2
5.512	7.087	0.472	SC	R2
5.512	7.087	0.472	TC	R2
5.512	7.087	0.591	TB2	G2
5.512	7.087	0.591	TC	R2
5.512	7.087	0.630	TB2	G2
5.512	7.283	0.630	TC	R2
5.512	7.874	0.472	TC	R2
5.512	8.465	0.472	SC	R2
5.512	9.843	0.591	TC	R2
5.563	6.625	0.500	TC	R2
5.591	6.181	0.394	TC	R2
5.591	6.614	0.551	TB2	G2
5.591	6.614	0.551	TC	R2
5.625	6.624	0.500	TA2	P2
5.625	6.625	0.374	SC	R2
5.630	6.496	0.394	SC	R2
5.630	6.496	0.394	TB2	P2
5.630	6.614	0.630	TB2	G2
5.669	6.299	0.472	SC	R2
5.709	6.299	0.276	SB	G2
5.709	6.299	0.472	TC	R3
5.709	6.496	0.394	TB	G2
5.709	6.496	0.512	TC	R2
5.709	6.496	0.551	TC	R2
5.709	6.575	0.512	TC	R2
5.709	6.606	0.453	TC	R2
5.709	6.614	0.394	TC	R2
5.709	6.614	0.512	TC	R3
5.709	6.614	0.591	TA2	P3
5.709	6.693	0.512	TB2	G3
5.709	6.693	0.512	TC	R2
5.709	6.693	0.591	SC	R2
5.709	6.693	0.591	TB	G2
5.709	6.693	0.591	TC	R2
5.709	6.890	0.315	TB2	G2
5.709	6.890	0.512	SA2	G2
5.709	6.890	0.512	SC	R2
5.709	6.890	0.512	TC	R2
5.709	6.890	0.551	TB2	G2
5.709	6.890	0.551	TC	R2
5.709	6.890	0.591	SC	R2
5.709	6.890	0.591	TC	R2
5.709	7.087	0.472	TC	R2
5.709	7.087	0.591	TC	R2
5.709	7.283	0.591	TA2	P2
5.709	9.055	0.669	TC	R2
5.750	6.625	0.500	SA2	P2
5.750	6.625	0.500	SC	R2

Shaft	Bore	Width	Lip Style	Material
5.750	6.750	0.500	SA2	C2
5.750	6.875	0.500	TB2	C2
5.750	7.000	0.626	SA2	C2
5.750	7.500	0.563	SC	R2
5.750	7.500	0.563	TA2	P2
5.827	6.693	0.571	TA2	C2
5.827	6.693	0.591	TC	R2
5.875	6.875	0.500	TC	R2
5.906	6.614	0.512	TB	G2
5.906	6.614	0.512	TC	R2
5.906	6.693	0.472	SC	R2
5.906	6.693	0.512	TC	R3
5.906	6.693	0.591	SA2	P3
5.906	6.693	0.591	TA2	G3
5.906	6.693	0.591	TC	R2
5.906	6.772	0.472	TC	R2
5.906	6.772	0.591	SC	R2
5.906	6.890	0.394	TC	R2
5.906	6.929	0.591	TC	R2
5.906	7.087	0.472	SC	R2
5.906	7.087	0.472	TC	R2
5.906	7.087	0.512	SC	R2
5.906	7.087	0.512	TC	R2
5.906	7.087	0.551	TB2	G2
5.906	7.087	0.551	TC	R2
5.906	7.087	0.591	SC	R2
5.906	7.087	0.591	TC	R2
5.906	7.283	0.630	TC	R2
5.906	7.480	0.591	TC	R2
5.906	7.874	0.394	SC	R2
5.906	7.874	0.512	TC	R2
5.906	8.268	0.591	TC	R2
5.906	8.858	0.472	TC	R2
5.906	8.858	0.591	SC	R2
5.937	7.000	0.500	SC	R2
5.984	6.764	0.512	TB	G2
6.000	6.750	0.469	TBR	GS
6.000	6.750	0.500	SB2	P2
6.000	7.000	0.500	SC	R2
6.000	7.000	0.500	TC	R2
6.000	7.001	0.626	SA2	C2
6.063	6.772	0.551	TB	G2
6.063	6.772	0.551	TC	R2
6.063	7.087	0.709	TC	R2
6.102	6.772	0.551	TC	R2
6.102	6.850	0.472	TC	R2
6.102	6.890	0.472	SC	R2
6.102	6.890	0.512	TB	C3
6.102	7.087	0.394	TC	R2
6.102	7.087	0.472	TC	R2
6.102	7.087	0.512	TC	R2
6.102	7.087	0.591	SC	R2
6.102	7.087	0.591	TA2	G2
6.102	7.087	0.591	TC	R2



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Shaft	Bore	Width	Lip Style	Material
6.102	7.283	0.551	TB2	G2
6.102	7.283	0.551	TC	R2
6.102	7.283	0.630	TC	R2
6.102	7.480	0.591	SC	R2
6.102	7.480	0.591	TC	R3
6.125	7.125	0.626	SA2	P2
6.187	7.500	0.563	SA2	PPA
6.203	7.028	0.283	SC	RS
6.203	7.125	0.437	SA2	PS
6.250	7.000	0.374	TC	R2
6.250	7.187	0.625	TC	R2
6.250	7.187	0.626	SC	R2
6.250	7.187	0.626	TB2	G2
6.250	7.250	0.500	TC	R2
6.250	7.500	0.752	SC	R2
6.250	7.750	0.500	SA2	P2
6.299	7.087	0.394	TC	R2
6.299	7.087	0.512	TB	G3
6.299	7.087	0.512	TC	R2
6.299	7.087	0.551	TC	R2
6.299	7.087	0.591	SA2	C2
6.299	7.087	0.591	TB2	G2
6.299	7.087	0.591	TC	R2
6.299	7.165	0.709	TC	R2
6.299	7.283	0.394	SC	R2
6.299	7.283	0.394	TC	R2
6.299	7.283	0.472	SC	RV
6.299	7.283	0.512	TC	R2
6.299	7.480	0.512	SC	R2
6.299	7.480	0.512	TC	R2
6.299	7.480	0.551	TC	R2
6.299	7.480	0.591	SC	R2
6.299	7.480	0.591	TA2	G2
6.299	7.480	0.591	TC	R2
6.299	7.480	0.630	SB2	G2
6.299	7.677	0.591	TC	R2
6.299	7.677	0.827	DB2	GP
6.299	7.874	0.472	SC	R2
6.299	7.874	0.472	TC	R2
6.299	7.874	0.551	TC	R2
6.299	7.874	0.591	TC	R2
6.299	7.874	0.630	TC	R2
6.299	8.465	0.591	TC	R2
6.299	8.661	0.472	SC	R2
6.299	8.661	0.591	TC	RV
6.299	9.449	0.591	TC	R2
6.299	11.417	0.709	TC	R2
6.375	7.500	0.500	TC	R2
6.375	7.874	0.563	TA2	P2
6.378	7.165	0.551	TB	G2
6.496	7.087	0.315	SC	R2
6.496	7.323	0.551	TC	R2
6.496	7.480	0.512	SC	R2
6.496	7.480	0.512	TC	R2

Shaft	Bore	Width	Lip Style	Material
6.496	7.480	0.551	TC	R2
6.496	7.480	0.591	TC	R2
6.496	7.677	0.591	TC	R2
6.496	7.874	0.551	TC	R2
6.496	7.992	0.748	TA2	G3
6.496	8.012	0.748	TA2	G2
6.500	7.500	0.500	TC	R2
6.500	7.500	0.563	TA2	P2
6.500	7.625	0.626	SA2	P2
6.500	7.750	0.500	SC	R2
6.500	8.000	0.750	SC	R2
6.693	7.480	0.276	SC	R2
6.693	7.480	0.335	TC	R3
6.693	7.480	0.394	TC	R2
6.693	7.480	0.551	TC	R2
6.693	7.480	0.591	SC	R2
6.693	7.677	0.591	TC	R2
6.693	7.874	0.472	SC	R2
6.693	7.874	0.512	TC	R2
6.693	7.874	0.591	DC	R2
6.693	7.874	0.591	SC	R2
6.693	7.874	0.591	TA2	P2
6.693	7.874	0.591	TC	R2
6.693	7.953	0.472	TC	R2
6.693	8.071	0.591	TC	R2
6.693	8.071	0.669	TC	R2
6.693	8.268	0.591	SC	R2
6.693	8.268	0.591	TC	R2
6.750	7.657	0.500	TB2	P2
6.750	7.750	0.500	TC	R2
6.750	7.998	0.591	TA2	G3
6.750	8.000	0.500	TB2	G2
6.811	7.756	0.315	TC	RV
6.875	7.875	0.625	SA2	P2
6.890	7.480	0.591	TC	R2
6.890	7.874	0.591	SC	R2
6.890	7.874	0.591	TA2	G2
6.890	7.874	0.591	TC	R2
6.890	8.268	0.591	SC	R2
6.890	8.268	0.591	TC	R2
6.890	8.465	0.591	TC	R2
6.890	9.055	0.787	TC	R2
6.969	8.165	0.965	DB2	G2
6.969	8.189	0.512	TC	R2
7.000	8.000	0.500	TC	R2
7.000	8.000	0.500	WPB	G4
7.000	8.000	0.626	TA2	P2
7.000	8.500	0.500	TB2	P2
7.087	7.874	0.276	SC	R2
7.087	7.874	0.472	TB	G2
7.087	7.874	0.551	TC	R2
7.087	7.874	0.591	SC	R2
7.087	7.874	0.591	TB	G2
7.087	7.874	0.591	TC	R2

Shaft	Bore	Width	Lip Style	Material
7.087	7.874	0.630	TB	G2
7.087	8.071	0.591	TC	R2
7.087	8.197	0.807	DB	C2
7.087	8.268	0.492	SC	R2
7.087	8.268	0.591	TA2	G2
7.087	8.268	0.591	TC	R2
7.087	8.465	0.591	TC	R2
7.087	8.465	0.630	TA2	G3
7.087	8.661	0.591	SC	R2
7.087	8.661	0.591	TC	R2
7.087	8.661	0.630	TC	R2
7.087	8.661	0.630	TC	R2
7.125	8.625	0.563	TC	R2
7.250	8.750	0.563	SC	R2
7.283	8.268	0.512	SC	R2
7.283	8.268	0.512	TC	R2
7.283	8.268	0.591	TC	R2
7.283	8.465	0.591	TC	R2
7.283	8.465	0.630	TC	R2
7.323	7.992	0.315	SC	R2
7.375	8.875	0.750	SA2	P2
7.480	8.268	0.394	TC	R2
7.480	8.268	0.591	TC	R2
7.480	8.465	0.630	SC	R2
7.480	8.661	0.591	SA2	G2
7.480	8.661	0.591	SC	R2
7.480	8.661	0.591	TA2	G3
7.480	8.661	0.591	TC	R2
7.480	8.858	0.472	TC	R2
7.480	8.858	0.630	TC	R2
7.480	8.858	0.709	TC	R2
7.480	9.055	0.591	TC	R2
7.480	9.055	0.630	TC	R2
7.500	8.625	0.626	SC	R2
7.500	9.000	0.563	SC	R2
7.500	9.000	0.750	TA2	P2
7.598	8.268	0.315	SC	R2
7.625	8.625	0.563	SA2	C2
7.625	9.125	0.563	TC	R2
7.677	8.858	0.630	TC	R2
7.677	9.055	0.591	TC	R2
7.677	9.055	0.630	TC	R2
7.677	9.055	0.787	TC	R2
7.677	9.252	0.630	TC	R2
7.750	9.500	0.752	SC	R2
7.874	8.661	0.472	TC	R2
7.874	8.858	0.591	SC	R2
7.874	8.858	0.591	TC	R2
7.874	9.055	0.512	TC	R2
7.874	9.055	0.591	SC	R2
7.874	9.055	0.591	TC	R2
7.874	9.055	0.630	SC	R2
7.874	9.252	0.591	TC	R2
7.874	9.449	0.591	DB2	GV
7.874	9.449	0.591	TC	R2

Shaft	Bore	Width	Lip Style	Material
7.874	9.449	0.787	TC	R2
7.874	9.843	0.591	SC	R2
7.874	9.843	0.591	TC	R3
7.874	9.843	0.630	TC	R2
7.874	9.843	0.787	TC	R2
8.000	9.000	0.626	TA2	P2
8.000	9.000	0.750	TBR	G2
8.071	8.858	0.709	TC	R2
8.071	9.055	0.630	SC	R2
8.071	9.055	0.630	TC	R2
8.071	9.252	0.709	TC	R2
8.250	9.250	0.500	SA2	P2
8.250	9.250	0.626	SBR	C2
8.250	10.250	0.689	SC	R2
8.268	9.449	0.591	SC	R2
8.268	9.449	0.591	TC	R2
8.268	9.646	0.709	TC	R2
8.268	9.843	0.591	SC	R2
8.268	9.843	0.591	TC	R2
8.268	9.843	0.630	TC	R2
8.268	10.039	0.630	TC	R2
8.268	10.236	0.630	TC	R2
8.268	10.630	0.630	TC	R2
8.375	9.875	0.563	SC	R2
8.465	9.449	0.472	SC	R2
8.465	9.449	0.591	TC	R2
8.465	9.449	0.709	TC	R2
8.500	10.000	0.752	SC	R2
8.524	9.740	0.965	DB2	C2
8.661	9.724	0.591	TC	R2
8.661	9.843	0.591	TC	R2
8.661	9.843	0.630	TA2	P3
8.661	9.843	0.787	TC	R2
8.661	10.039	0.630	TC	R2
8.661	10.236	0.551	TC	R2
8.661	10.236	0.630	TC	R2
8.661	10.630	0.669	TC	R2
8.740	9.646	0.512	TC	R2
9.000	10.000	0.626	SA2	G2
9.000	10.087	0.625	TA2	P2
9.000	10.384	0.625	SA2	G4
9.055	10.000	0.472	SB	G2
9.055	10.236	0.591	SC	R2
9.055	10.236	0.591	TC	R2
9.055	10.630	0.591	TC	R2
9.134	10.512	0.827	DB	GP
9.250	11.250	0.625	TA2	P2
9.252	10.236	0.394	KB	P2
9.252	10.827	0.630	TC	R2
9.449	10.630	0.591	SC	R2
9.449	10.630	0.591	TC	R2
9.449	11.024	0.591	SC	R2
9.449	11.024	0.709	TC	R2
9.449	11.024	0.787	TC	R2



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Shaft	Bore	Width	Lip Style	Material
9.843	11.024	0.591	SC	R2
9.843	11.024	0.591	TC	R2
9.843	11.220	0.709	TC	R2
9.843	11.417	0.591	TC	R2
9.910	10.997	0.626	SB	G2
10.236	11.417	0.591	SC	R2
10.236	11.417	0.591	TC	R2
10.236	11.811	0.709	TC	R2
10.236	11.811	0.787	SC	R2
10.236	11.811	0.787	TC	R2
10.236	12.598	0.787	TC	R2
10.236	12.598	0.984	TC	R2
10.433	11.417	0.630	TC	R2
10.630	12.205	0.709	TC	R2
11.024	12.205	0.591	SC	R2
11.024	12.205	0.591	TC	R2
11.024	12.205	0.630	SA2	G2
11.024	12.598	0.787	TC	R2
11.220	12.598	0.787	TC	R2
11.250	12.250	0.687	TB	G2
11.417	12.992	0.709	TC	R2
11.811	13.386	0.709	SC	R2
11.811	13.386	0.709	TC	R2
11.811	14.173	0.984	TC	R2
12.205	13.071	0.394	KB	P2
12.205	13.071	0.394	TC	R2
12.205	13.780	0.709	TC	R2
12.375	13.484	0.701	TB	G2
12.598	13.780	0.787	TC	R2
12.598	14.173	0.709	TC	R2
12.598	14.173	0.787	SC	R2
12.598	14.173	0.787	TC	R2
13.386	14.961	0.709	SC	R2
13.386	14.961	0.787	TC	R2
13.780	15.354	0.709	TC	R2
14.173	15.748	0.709	TC	R2
14.173	15.748	0.787	SC	R2
14.173	15.748	0.787	TC	R2
14.961	16.535	0.787	SC	R2
14.961	16.535	0.787	TC	R2
15.748	16.732	0.591	SC	R2
15.748	17.323	0.787	TC	R2
16.535	18.110	0.787	TC	R2
16.929	17.835	0.394	KB	P2
16.929	18.898	1.181	SC	R2
17.323	18.898	0.787	TC	R2

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