TIMKEN



TIMKEN® SNT MOUNTED SPLIT PLUMMER BLOCK BEARING CATALOG



ABOUT THE TIMKEN COMPANY

As a global leader in bearings and power transmission systems, Timken focuses on precise solution design, materials and craftsmanship to deliver reliable and efficient performance that improves productivity and uptime. Timken offers a full range of bearings, gear drives, automated lubrication systems, belts, chains, couplings and linear motion products along with rebuild and repair services. Timken applies its proven expertise in metallurgy, tribology and mechanical power transmission to create innovative approaches to customers' complex needs. Global availability of products and engineering talent, combined with exceptional service delivery across markets, makes Timken apreferred choice worldwide.

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TIMKEN® SNT MOUNTED SPLIT PLUMMER BLOCK BEARING CATALOG INDEX

INTRODUCTION 2
HOW TO USE THIS CATALOG 5
SHELF LIFE/STORAGE 5
WARNINGS 6

ENGINEERING

Seal Options 8
Seal Selection 9
SNT Nomenclature 10
Housing Strength 11
Radial Internal Clearance 13
Shaft Length Guidelines 15

SNT MOUNTED PLUMMER BLOCK BEARING PRODUCT DATA TABLES

Two-Bolt SNT Housings for Tapered Bore Bearings for Metric Shafts – 500/600 Series 18
Two-Bolt SNT Housings for Tapered Bore Bearings for Inch Shafts – 500/600 Series 22
Four-Bolt FSNT Housings for Tapered Bore Bearings for Metric Shafts – 500/600 Series 30
Four-Bolt FSNT Housings for Tapered Bore Bearings for Inch Shafts – 500/600 Series 34
Two-Bolt SNT Housings for Cylindrical Bore Bearings – 200/300 Series 40
Four-Bolt FSNT Housings for Cylindrical Bore Bearings – 200/300 Series 44
Four-Bolt SNTD Housings for Tapered Bore Bearings – 3000 and 3100 Series 48
Four-Bolt SNTD Housings for Cylindrical Bore Bearings – 3000 And 3100 Series 54
SNTN Housings for Tapered Bore Bearings – 3000 Light Series 62
SNTN Housings for Cylindrical Bore Bearings – 3000 Light Series 64

A SINGLE SOLUTION HOUSED IN STRENGTH

STRONGER OUTSIDE. SMARTER INSIDE.

Accelerate your efficiency with Timken® SNT mounted split plummer blocks that keep lubrication in and contamination out with a split design cast iron or ductile iron housing outside and Timken® high-performance spherical roller bearing inside – you'll put an integrated bearing solution of the highest integrity to work.

- **Engineered Housings:** No matter the size, our durable housings are engineered to perform. The large sizes (3000 and 3100 series) come standard in ductile iron for your toughest applications.
- **Timken® Spherical Roller Bearings:** Gain longer bearing life through premium performance from increased load-carrying capacity and cooler running temperatures.
- **Four Seal Options:** Choose from double-lip, labyrinth, V-ring or taconite designs.
- **Effective Lubrication:** The lubrication system features a center- mounted grease fitting matched to the bearing lube ring and holes, along with options for other grease fitting locations.
- **Flexible Configurations:** with many options to choose from, there's a Timken SNT mounted split plummer block solution to meet all your needs. Depending on your accessories, a single housing can be utilized for a variety of bearings based on capacity needs, in fixed or float positions, and open or closed with end covers.

TIMKEN SNT MOUNTED SPLIT PLUMMER BLOCKS – STRONGER OUTSIDE

Timken engineered mounted split plummer block solutions deliver performance, productivity and efficiency.

Split-block housings

Provide proper support with precision-fit matched and serialized cap-and-base that are dowel-pin aligned. Simplifies installation of heavy housings. Convenient pry-tool slots for easy cap removal, speedy bearing inspection and replacement.



Tapered adapter or straight bore mounting

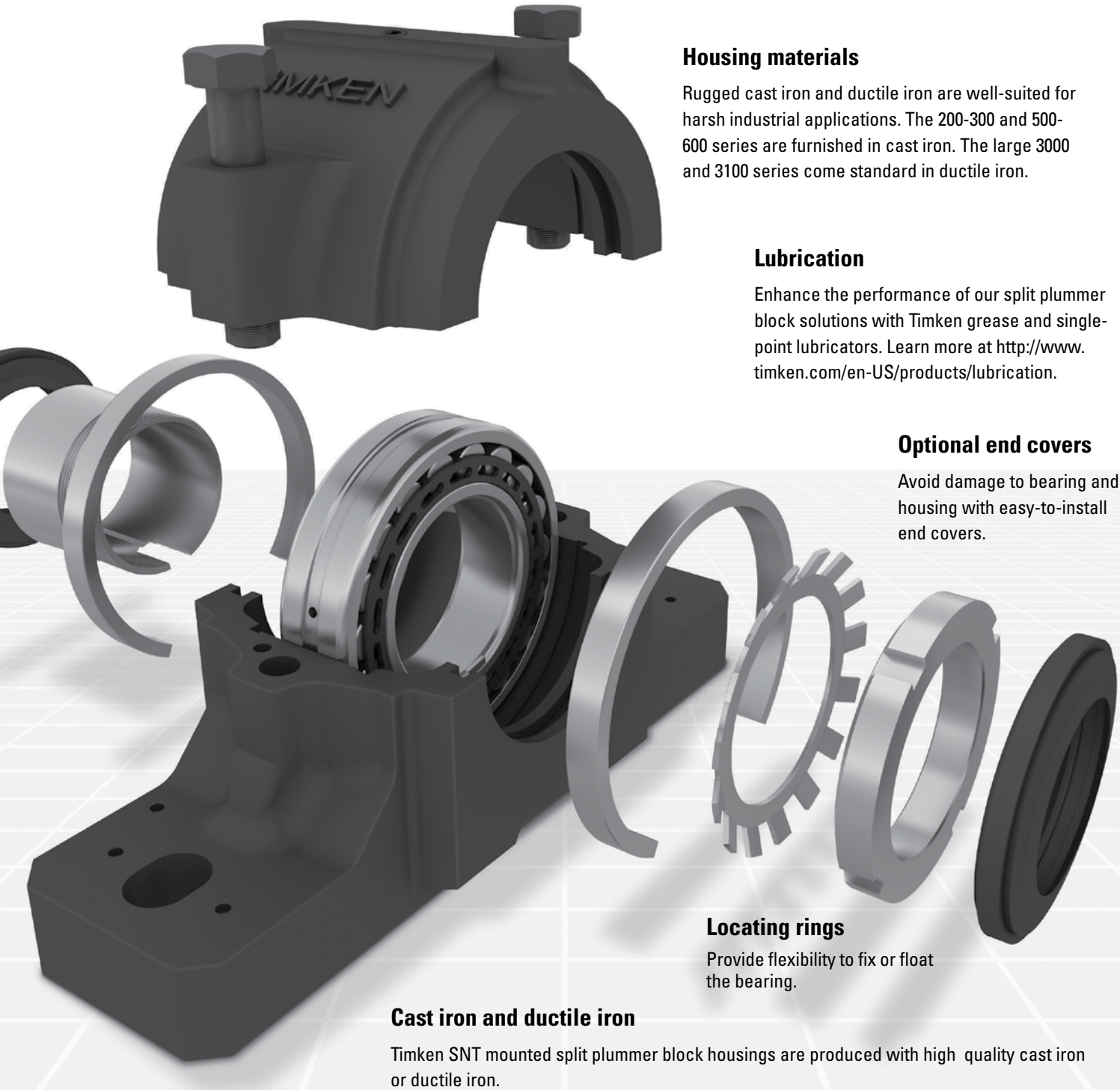
Secure each bearing onto the shaft.

Seal options

Help keep interior contact surfaces debris-free and properly lubricated with strong and effective seals. Timken double-lip, labyrinth, V-ring and taconite seal options increase bearing life and improve uptime.

Standard metric mounting dimensions

Easy installation with industry-standard dimensions for bolt holes, center height and shaft diameter. Conforms to ISO 113:1999.



Housing materials

Rugged cast iron and ductile iron are well-suited for harsh industrial applications. The 200-300 and 500-600 series are furnished in cast iron. The large 3000 and 3100 series come standard in ductile iron.

Lubrication

Enhance the performance of our split plummer block solutions with Timken grease and single-point lubricators. Learn more at http://www.timken.com/en-US/products/lubrication.

Optional end covers

Avoid damage to bearing and housing with easy-to-install end covers.

Locating rings

Provide flexibility to fix or float the bearing.

Cast iron and ductile iron

Timken SNT mounted split plummer block housings are produced with high quality cast iron or ductile iron.

Cast iron (gray cast iron) is the standard material for the 200-300 and 500-600 series housings. Cast iron has good wear resistance, high vibration absorption (damping) properties, good thermal conductivity and is suitable for many industrial applications.

Ductile iron (spheroidal or nodular graphite cast iron) is the standard material for the 3000 and 3100 series. Ductile iron, also known as SGI, has more impact and fatigue resistance than cast iron due to the graphite nodules. Ductile iron housings can support loads higher than gray cast iron.

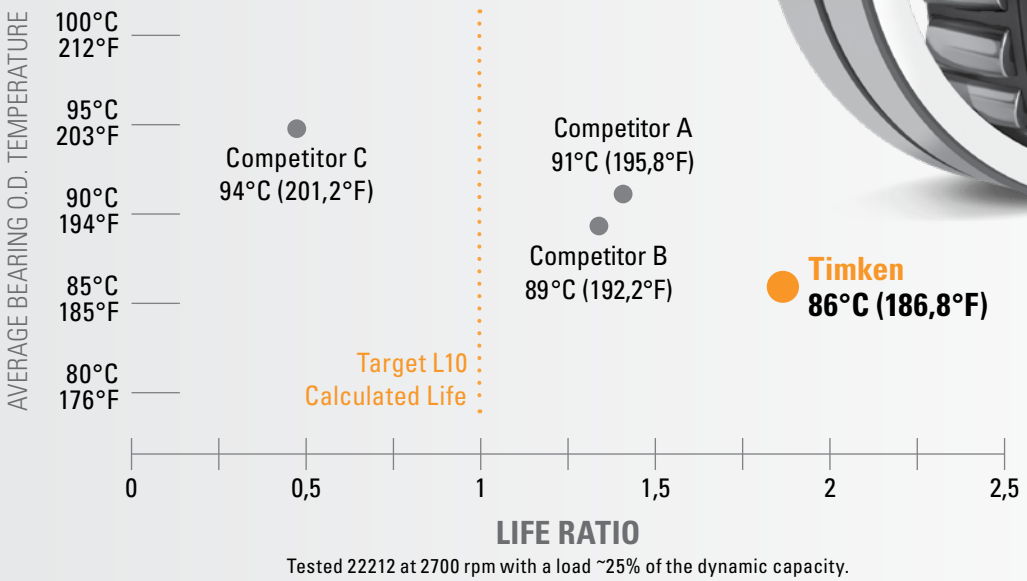
TIMKEN SPHERICAL ROLLER BEARINGS – SMARTER INSIDE

TIMKEN® SPHERICAL ROLLER BEARINGS ARE ENGINEERED TO GIVE YOU MORE OF WHAT YOU NEED.



LOWER OPERATING TEMPERATURES

Rollers are guided by cage pockets – not a center guide ring – eliminating a friction point and resulting in 4-10% less rotational torque and 5ºC lower operating temperatures.[1]



Tested 22212 at 2700 rpm with a load ~25% of the dynamic capacity.

Fig. 1. Life Ratio.

TOUGHER PROTECTION

Hardened steel cages deliver greater fatigue strength, increased wear resistance and tougher protection against shock and acceleration.

OPTIMIZED UPTIME

Unique slots in the cage face improve oil flow and purge more contaminants from the bearing to help extend equipment uptime.

MINIMIZED WEAR

Improved profiles reduce internal stresses and optimize load distribution to minimize wear.

IMPROVED LUBE FILM

Enhanced surface finishes avoid metal-to-metal contact to reduce friction and result in improved lube film.

HIGHER LOADS

Longer rollers result in 4-8% higher load ratings or 14-29% longer predicted bearing life. Higher load ratings enable you to carry heavier loads.

Brass cages are available in all sizes; ready when you need extra strength and durability in the most unrelenting conditions, including extreme shock and vibration, high acceleration forces, and minimal lubrication. Typically, SNT housings use spherical roller bearings with C3 or C0 clearance. Timken offers a wide variety of clearances to meet your application needs.

[1]All results are from head-to-head testing against multiple competitors.

HOW TO USE THIS CATALOG

We designed this catalog to help you find the Timken bearings best suited to your equipment needs and specifications. Timken offers an extensive range of bearings and accessories in both imperial and metric sizes. For your convenience, size ranges are indicated in millimeters and inches. Contact your Timken engineer to learn more about our complete line for the special needs of your application.

This publication contains dimensions, tolerances and load ratings, as well as engineering sections describing mounting and fitting practices for shafts and housings, internal clearances, materials and other bearing features.

It provides valuable assistance in the initial consideration of the type and characteristics of the bearings that may best suit your particular needs.

ISO, as used in this publication, refers to the International Organization for Standardization and JIS refers to the Japanese Industrial Standards.

Updates are made periodically to this catalog. Visit www.timken.com/catalogs for the most recent version of the SNT mounted split plummer block bearing catalog

SHELF LIFE AND STORAGE OF GREASE-LUBRICATED BEARINGS AND COMPONENTS

To help you get the most value from our products, Timken provides guidelines for the shelf life of grease-lubricated ball and roller bearings, components and assemblies. Shelf life information is based on Timken and industry test data and experience.

SHELF LIFE

Shelf life should be distinguished from lubricated bearing/component design life as follows:

Shelf life of the grease-lubricated bearing/component represents the period of time prior to use or installation.

The shelf life is a portion of the anticipated aggregate design life. It is impossible to accurately predict design life due to variations in lubricant bleed rates, oil migration, operating conditions, installation conditions, temperature, humidity and extended storage.

TIMKEN IS NOT RESPONSIBLE FOR THE SHELF LIFE OF ANY BEARING/COMPONENT LUBRICATED BY ANOTHER PARTY.

European REACH compliance

Timken lubricants, greases and similar products sold in standalone containers or delivery systems are subject to the European REACH (Registration, Evaluation, Authorization and Restriction of CHemicals) directive. For import into the European Union, Timken can sell and provide only those lubricants and greases that are registered with ECHA (European CHemical Agency). For further information, please contact your Timken engineer.

STORAGE

Timken suggests the following storage guidelines for our finished products (bearings, components and assemblies, referred to as "products"):

- Unless directed otherwise by Timken, products should be kept in their original packaging until they are ready to be placed into service
- Do not remove or alter any labels or stencil markings on the packaging
- Products should be stored in such a way that the packaging is not pierced, crushed or otherwise damaged
- After a product is removed from its packaging, it should be placed into service as soon as possible
- When removing a product that is not individually packaged from a bulk pack container, the container should be resealed immediately after the product is removed
- The storage area temperature should be maintained between 0° C and 40° C; temperature fluctuations should be minimized
- The relative humidity should be maintained below 60 percent and the surfaces should be dry
- The storage area should be kept free from airborne contaminants such as, but not limited to, dust, dirt, harmful vapors, etc.
- The storage area should be isolated from undue vibration
- Extreme conditions of any kind should be avoided

Due to the fact that Timken is not familiar with your particular storage conditions, we strongly suggest following these guidelines. However, you may be required by circumstances or applicable government requirements to adhere to stricter storage requirements.

Be careful in selecting lubrication, however, since different lubricants are often incompatible.

When you receive a bearing shipment, do not remove products from their packaging until they are ready for mounting so they do not become corroded or contaminated.

Store bearings and bearing housings in an appropriate atmosphere so they remain protected for the intended period.

⚠ WARNING

Failure to observe the following warnings could create a risk of death or serious injury.

Proper maintenance and handling practices are critical. Always follow installation instructions and maintain proper lubrication.

Never spin a bearing with compressed air. The components may be forcefully expelled.

Overheated bearings can ignite explosive atmospheres. Special care must be taken to properly select, install, maintain and lubricate mounted bearings that are used in or near atmospheres that may contain explosive levels of combustible gases or accumulations of dust such as grain, coal, or other combustible materials. Consult your equipment designer or supplier for installation and maintenance instructions.

If hammer and bar are used for installation or removal of a part, use a mild steel bar (e.g., 1010 or 1020 grade). Mild steel bars are less likely to cause release of high speed fragments from the hammer or bar or the part being installed or removed.

Ungrounded bearings can create static electricity that can ignite in an explosive atmosphere such as combustible gases or accumulations of dust such as grain, coal, or other combustible materials. Proper dissipation of such potential static electricity discharge must be assured to prevent any such explosion.

Below -40˚ C (-40˚ F), polymer housings may break. Select stainless or steel housings that operate to lower temperatures.

Tensile stresses can be very high in tightly fitted bearing components. Attempting to remove such components by cutting the inner ring may result in a sudden shattering of the component, causing fragments of metal to be forcefully expelled.

Always use properly guarded presses or bearing pullers to remove bearings from shafts, and always use suitable personal protective equipment, including safety glasses.

For additional Timken product warnings, visit www.timken.com/warnings.

CAUTION

Failure to observe the following cautions could result in property damage.

The products cataloged are application specific. Any use in applications other than those intended could lead to equipment failure or to reduced equipment life.

Use of improper bearing fits may cause damage to equipment.

Do not use damaged mounted bearings.

Do not use damaged bearings. The use of a damaged bearing can result in equipment damage.

NOTE

Do not use excessive force when mounting or dismounting the unit.

Follow all tolerance, fit, and torque recommendations.

Always follow the Original Equipment Manufacturer's installation and maintenance guidelines.

Ensure proper alignment.

Never weld mounted units.

Do not heat components with an open flame.

Do not operate at bearing temperatures above 121° C (250° F).

DISCLAIMER

This catalog is provided solely to give you analysis tools and data to assist you in your product selection. Product performance is affected by many factors beyond the control of Timken. Therefore, you must validate the suitability and feasibility of all product selections.

Timken products are sold subject to Timken terms and conditions of sale, which include our limited warranty and remedy. You can find these at https://www.timken.com/legal-notices/termsandconditionsofsale/.

Please consult with your Timken engineer for more information and assistance. Every reasonable effort has been made to ensure the accuracy of the information in this writing, but no liability is accepted for errors, omissions or for any other reason.



ENGINEERING

Timken offers a full range of SNT mounted plummer block bearings in both metric and imperial sizes.

The following topics are covered within this section:

Seal Options 8

Seal Selection 9

SNT Nomenclature 10

Housing Strength 11

Radial Internal Clearance 13

Shaft Length Guidelines 15

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SEAL OPTIONS

SEAL DESCRIPTIONS

Timken® SNT mounted split plummer blocks are available with multiple sealing options. Each seal type incorporates specific features to meet your application needs. The table on the following page compares the various features of each seal type.

DOUBLE-LIP SEALS (TSNG)

Double-lip seals are the most common seal design used with SNT mounted split plummer blocks. These are general all-purpose elastomer seals that can protect in moderately contaminated environments. The seal is split into two 180 degree halves for easy installation. The seal element runs against the shaft surface and should be used in grease lubricated blocks. Contact your Timken engineer for double-lip seal availability when using cylindrical bore housings.

V-RING SEALS (VR)

V-ring seals are a deflector type seal. They are made up of an elastomer V-ring seal element that rotates with the shaft and runs against the axial surface of a washer-type component that is retained in the block housing. As the V-ring element is a stretch fit onto the shaft, a rougher shaft surface is acceptable. This seal performs well in moderately contaminated environments with fine particulate.

LABYRINTH SEALS (LO)

Labyrinth seals are made up of a single metal ring component that interconnects with the grooves in the housing to form a labyrinth gap. The inside diameter of the metal ring contains an O-ring that creates an interference fit with the shaft so that the ring will rotate with the shaft. Labyrinth seals can be used on high-speed applications and in moderately contaminated environments.

TACONITE SEALS (TA)

Taconite seals are a combination of both a labyrinth seal and V-ring seal. The labyrinth seal is made up of two separate metal ring components, inner and outer, that have interconnecting grooves that form a labyrinth gap. The outer metal ring component contains an O-ring on its outside diameter that provides an interference fit to the groove in the housing. The inside diameter of the inner metal ring component contains an O-ring that creates an interference fit with the shaft so that the ring will rotate with the shaft. This seal performs well in highly contaminated environments such as those seen in mining operations.

END COVERS (EC)

In some applications, the shaft end is designed to terminate inside the pillow block. For this design, positive fitting end-cover inserts are available to help seal out contaminants and retain lubricants – providing additional protection to the bearing.

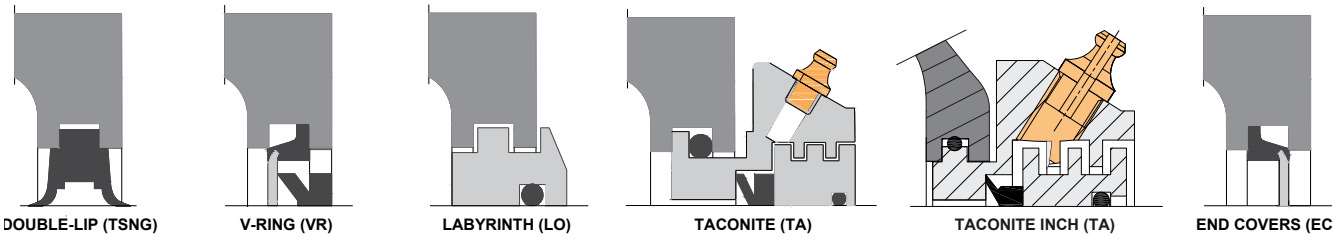


Fig. 2. Seal options: 500-600 and 200-300 series.

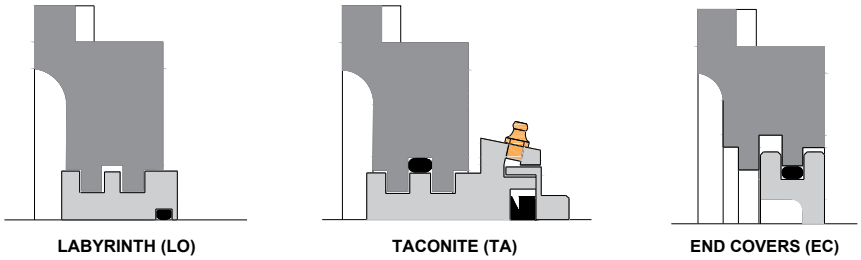


Fig. 3. Seal options: 3000 and 3100 series.

SEAL SELECTION

TABLE 1. SEAL SELECTION

Seal Selection	Double-Lip (TSNG)	V-Ring (VR)	Labyrinth (LO)	Taconite (TA)
Material	NBR	NBR rubber + mild steel plate	Steel + NBR O-ring	Steel + NBR O-ring and V-ring
Temperature	-40° to 100° C (-40° to 212° F)	-40° to 100° C (-40° to 212° F)	-40° to 120° C (-40° to 248° F)	-40° to 100° C (-40° to 212° F)
Maximum speed	4 m/s*	7 m/s	Same as bearing	7 m/s
Grease relubrication	Excellent	Excellent	Good	Good
Oil lubrication[1]	Poor	Poor	Poor	Poor
Low friction	Good	Good	Excellent	Good
Resists dust/fine particles	Excellent	Excellent	Good	Excellent
Resists coarse particles	Good	Poor	Excellent	Good
Resists water	Good	Good	Fair	Good
Misalignment Shaft dia. ≤ 100 mm	1°	1.5°	0.3°	0.3°
Misalignment Shaft dia. > 100 mm	0.5°	1°	0.3°	0.3°

[1] If an application requires oil lubrication, please contact your Timken engineer.
* Indicates 4 m/s for TSNG 500/600 series seals and 5 m/s for TSNG 200/300 series seals.

BEARING: 21310K **LOCATING RINGS:** SR110X10.5 **SLEEVE:** H310	**BEARING:** 22310K **LOCATING RINGS:** SR110X4 **SLEEVE:** H2310	**BEARING:** 22212K **LOCATING RINGS:** SR110X10 **SLEEVE:** H312
SEAL OPTIONS **DOUBLE-LIP:** TSNG610 **LOR:** LO610 **V-RING:** VR610 **TACONITE:** TA610 **END COVER:** EC512-610	**SEAL OPTIONS** **DOUBLE-LIP:** TSNG610 **LOR:** LO610 **V-RING:** VR610 **TACONITE:** TA610 **END COVER:** EC512-610	**SEAL OPTIONS** **DOUBLE-LIP:** TSNG512 **LOR:** LO512 **V-RING:** VR512 **TACONITE:** TA512 **END COVER:** EC512-610

Fig. 4. Tapered bore bearing example: SNT 512-610.

FLEXIBLE CONFIGURATIONS

With many options to choose from, there's a Timken SNT mounted split plummer block to meet all your needs. Depending on the accessories you choose, a single housing can be used with multiple bearings, in fixed or float positions, and open or closed end covers. Flexible configurations deliver the single solution to meet all of your needs.

Note: A special coating system is also available for marine applications and other highly corrosive environments. Simply add suffix "/127" to the housing part number when ordering.



Fig. 5. SNT mounted split plummer block bearing.

SNT NOMENCLATURE

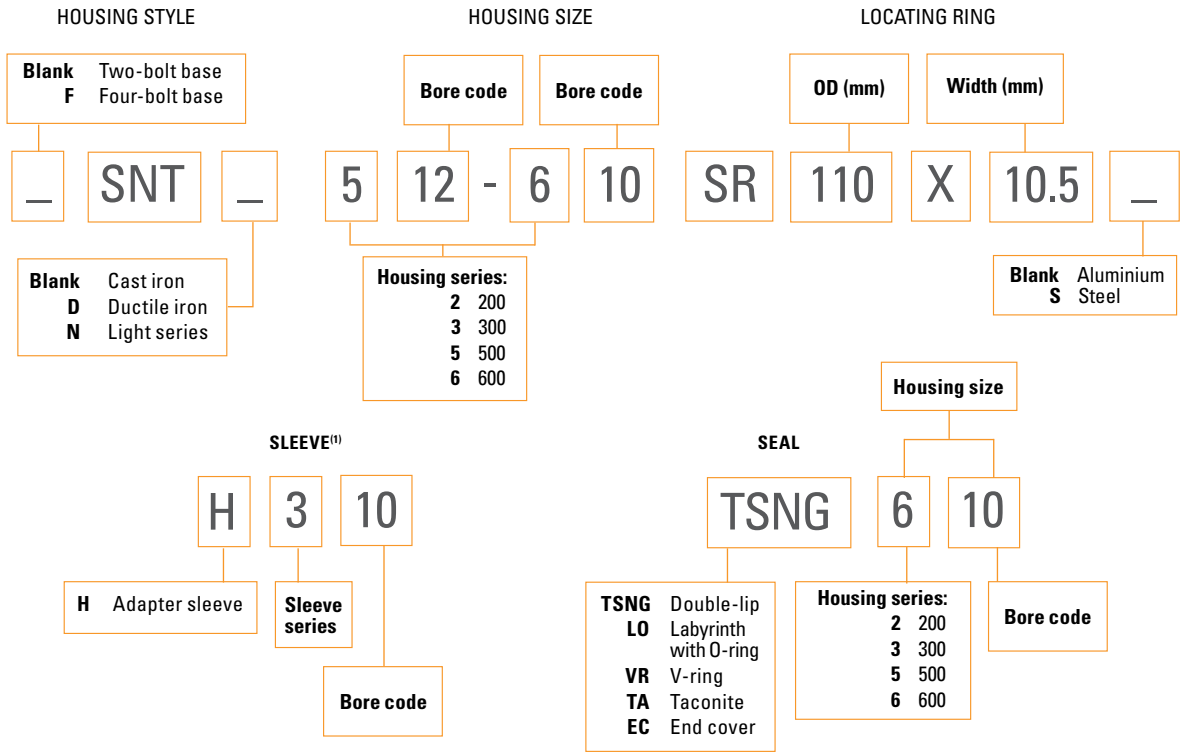


Fig. 6. SNT nomenclature: 200-300 and 500-600 series.

(1)Sleeve assemblies contain adapter sleeve, locknut, and lockwasher.

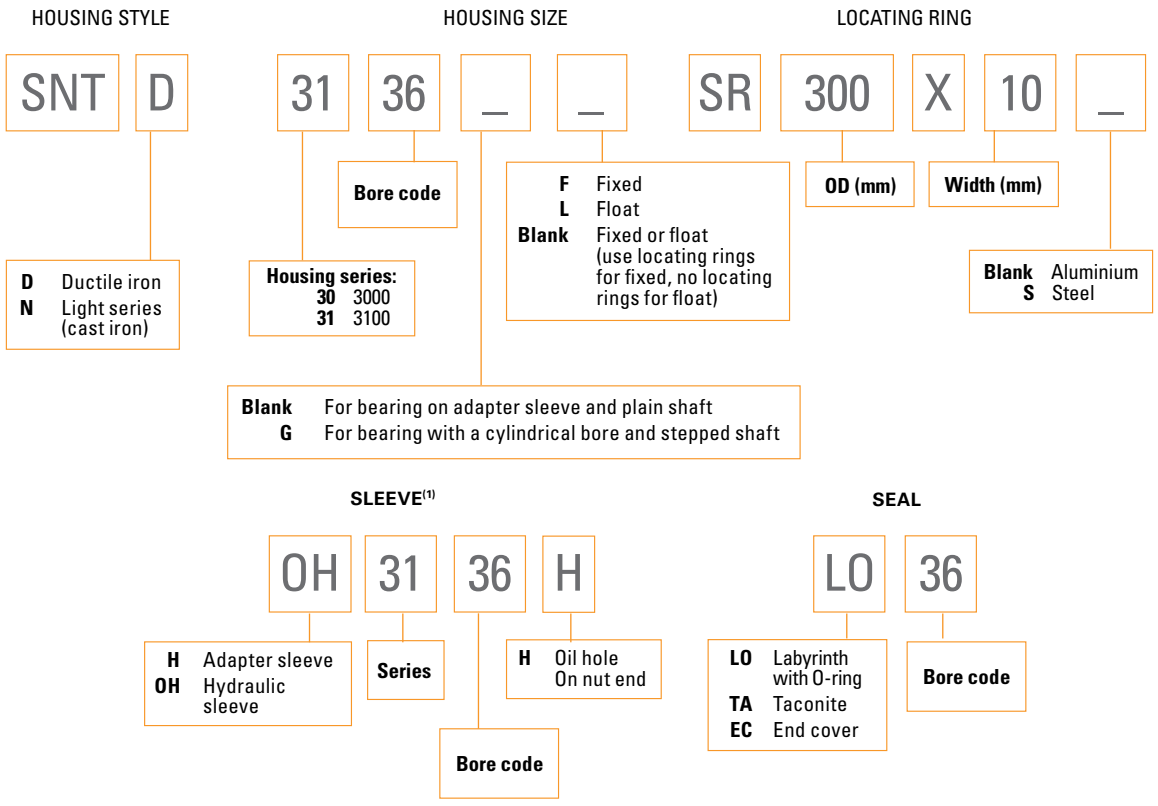


Fig. 7. SNT nomenclature: 3000 and 3100 series.

(1)Adapter sleeve includes locknut and lockwasher/lock plate.

HOUSING STRENGTH

Timken SNT mounted bearings are intended to be mounted with the base fully supported and loads applied directly into the base. Housing strength may become the limiting factor in applications where load is not applied directly into the base or if the base is unsupported. In those cases, housing safe loads should be considered.

Safe load guidelines for Timken SNT housings where load is not applied directly into the base or if the base is unsupported (P0) are shown in the tables below. The safe load guidelines have taken into account the breaking strength of the housing, the breaking strength of the cap bolts, and include appropriate safety factors. Safety factors are aligned with accepted engineering practices for the housing material and cap bolts. Additional safety factors may be applied by the user for safety critical applications. The published safe load values assume the housing has been properly secured to the base structure and proper torque has been applied to the cap bolts. Contact your Timken engineering or sales representative for any questions on housing strength or to discuss high-risk applications.

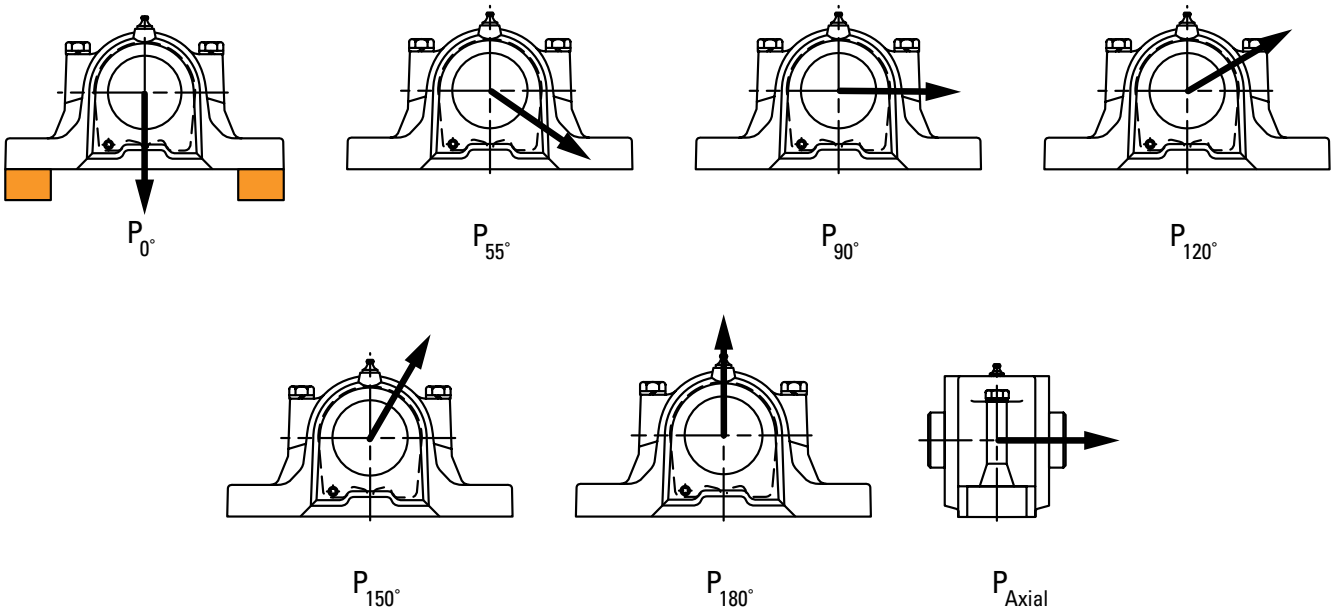


Fig. 8. Load directions.

TABLE 2. SAFE LOAD 500/600 AND 200/300 SERIES - TWO- AND FOUR-BOLT GRAY CAST IRON

SAFE LOAD							
Housing	Load Direction						
	0°	55°	90°	120°	150°	180°	Axial
	kN	kN	kN	kN	kN	kN	kN
SNT 205, SNT 505	10	22	18	7	9	11	9
SNT 206-305, SNT 506-605	15	29	18	10	10	12	10
SNT 207, SNT 507-606	20	36	18	13	12	14	11
SNT 208-307, SNT 508-607	26	44	19	16	14	15	12
SNT 209, SNT 509	32	52	21	20	15	17	13
SNT 210, (F)SNT 510-608	37	60	23	23	18	19	15
(F)SNT 211, (F)SNT 511-609	44	69	25	26	20	22	16
(F)SNT 212, (F)SNT 512-610	50	78	28	29	23	24	18
(F)SNT 213, (F)SNT 513-611	57	87	32	33	25	27	19
(F)SNT 215, (F)SNT 515-612	64	97	36	36	28	30	21
(F)SNT 216, (F)SNT 516-613	71	107	41	39	32	33	23
(F)SNT 217, (F)SNT 517	78	118	46	43	35	36	25
(F)SNT 218, (F)SNT 518-615	86	128	52	46	39	40	27
(F)SNT 519-616	94	139	59	50	43	44	30
(F)SNT 520-617	102	151	66	54	47	48	32
(F)SNT 522-619	120	175	81	61	56	57	37
(F)SNT 524-620	138	201	99	68	66	67	43
(F)SNT 526	148	214	109	72	71	72	46
(F)SNT 528	167	242	130	80	82	83	52
(F)SNT 530	188	271	153	88	94	95	58
(F)SNT 532	199	286	166	92	101	102	62

Note: Safe Load (kN), ASTM A48, grade 30 cast iron housings; class 8.8 cap bolts.

TABLE 3. SAFE LOAD 500/600 AND 200/300 SERIES - TWO- AND FOUR-BOLT DUCTILE IRON

SAFE LOAD							
Housing	Load Direction						
	0°	55°	90°	120°	150°	180°	Axial
	kN	kN	kN	kN	kN	kN	kN
SNTD 205, SNTD 505	32	33	34	42	43	45	29
SNTD 206-305, SNTD 506-605	39	44	36	39	45	45	30
SNTD 207, SNTD 507-606	47	56	40	37	47	46	30
SNTD 208-307, SNTD 508-607	56	69	44	37	50	48	32
SNTD 209, SNTD 509	66	83	49	37	53	50	33
SNTD 210, SNTD 510-608	76	98	55	39	57	53	35
SNTD 211, SNTD 511-609	87	115	61	42	62	57	38
(F)SNTD 212, (F)SNTD 512-610	99	132	69	46	67	61	40
(F)SNTD 213, (F)SNTD 513-611	112	150	77	51	72	66	44
(F)SNTD 215, (F)SNTD 515-612	126	170	85	58	79	72	47
(F)SNTD 216, (F)SNTD 516-613	140	190	95	66	86	78	52
(F)SNTD 217, (F)SNTD 517	156	212	105	74	93	85	56
(F)SNTD 218, (F)SNTD 518-615	172	234	116	85	101	92	61
(F)SNTD 519-616	189	258	127	96	110	101	67
(F)SNTD 520-617	206	282	139	108	119	110	72
(F)SNTD 522-619	244	335	166	137	139	129	85
(F)SNTD 524-620	285	391	196	170	162	152	100
(F)SNTD 526	306	421	212	188	174	164	108
(F)SNTD 528	352	484	246	229	201	190	125
(F)SNTD 530	401	550	283	274	229	219	144
(F)SNTD 532	427	585	302	298	245	234	154

Note: Safe Load (kN), ASTM A536, grade 65-45-12 ductile iron housings; class 10.9 cap bolts.

Safe load values are valid for housings with bearings in either fixed or floating configurations.

TABLE 4. SAFE LOAD 3000 SERIES DUCTILE IRON

SAFE LOAD							
Housing	Load Direction						
	0°	55°	90°	120°	150°	180°	Axial
	kN	kN	kN	kN	kN	kN	kN
SNTD 3036 (G)	499	798	434	355	442	451	262
SNTD 3038 (G)	693	905	490	431	464	471	323
SNTD 3040 (G)	787	961	520	467	477	483	353
SNTD 3044 (G)	967	1080	580	537	507	511	413
SNTD 3048 (G)	1137	1206	643	603	541	544	471
SNTD 3052 (G)	1298	1341	708	665	580	582	528
SNTD 3056 (G)	1450	1482	776	722	623	625	583
SNTD 3060 (G)	1592	1632	845	776	671	673	638
SNTD 3064 (G)	1725	1790	918	825	724	726	691
SNTD 3068 (G)	1848	1955	992	870	781	784	743
SNTD 3072 (G)	1962	2128	1069	911	843	847	794
SNTD 3076 (G)	2067	2309	1148	949	910	916	843
SNTD 3080 (G)	2162	2497	1230	981	981	989	892
SNTD 3084 (G)	2247	2693	1314	1010	1057	1067	939
SNTD 3088 (G)	2287	2795	1357	1023	1097	1108	962
SNTD 3092 (G)	2358	3002	1444	1046	1179	1193	1007
SNTD 3096 (G)	2420	3218	1534	1064	1267	1284	1051
SNTD 30/500 (G)	2473	3442	1626	1079	1359	1380	1094
SNTD 30/530 (G)	2534	3791	1769	1093	1506	1533	1156

Note: Safe Load (kN), ASTM A536, grade 65-45-12 ductile iron housings; class 10.9 cap bolts.

TABLE 5. SAFE LOAD 3100 SERIES DUCTILE IRON

SAFE LOAD							
Housing	Load direction						
	0°	55°	90°	120°	150°	180°	Axial
	kN	kN	kN	kN	kN	kN	kN
SNTD 3134 (G)	437	563	395	339	466	468	311
SNTD 3136 (G)	521	630	421	360	474	475	310
SNTD 3138 (G)	606	701	449	383	484	485	310
SNTD 3140 (G)	691	777	478	407	496	496	314
SNTD 3144 (G)	862	939	542	460	527	526	328
SNTD 3148 (G)	1033	1117	614	518	567	564	352
SNTD 3152 (G)	1205	1311	692	581	614	611	386
SNTD 3156 (G)	1377	1521	778	651	671	666	430
SNTD 3160 (G)	1549	1747	871	725	735	730	484
SNTD 3164 (G)	1722	1989	971	805	808	802	548
SNTD 3168 (G)	1896	2247	1079	891	890	883	622
SNTD 3172 (G)	2070	2521	1193	982	980	973	706
SNTD 3176 (G)	2245	2810	1315	1079	1079	1070	800
SNTD 3180 (G)	2420	3116	1443	1181	1186	1177	904
SNTD 3184 (G)	2596	3437	1579	1288	1301	1291	1018
SNTD 3188 (G)	2684	3604	1650	1344	1362	1352	1079
SNTD 3192 (G)	2861	3949	1797	1460	1490	1480	1208
SNTD 3196 (G)	3038	4310	1951	1581	1626	1616	1347

Note: Safe Load (kN), ASTM A536, grade 65-45-12 ductile iron housings; class 10.9 cap bolts.

RADIAL INTERNAL CLEARANCE

CALCULATING RIC REDUCTION OF A TAPERED BORE SPHERICAL ROLLERBEARING

For example, bearing number 22328K C3 (140 mm bore with C3 clearance) is to be mounted on a tapered shaft. Using a set of feeler gages, RIC is measured at:

RIC = 0.178 mm

Suggested reduction of RIC due to installation = 0.064 mm-0.089 mm, found in the IC table for tapered bore.

Calculate the clearance after mounting:

0.178 mm-0.076 mm = 0.102 mm

For this example, the value of 0.076 mm was obtained by taking the mid-range value of the upper and lower limits found in the table on the next page.

Therefore, the locknut should be tightened until RIC reaches 0.102 mm. It also should be noted that the value obtained by reading the suggested RIC after installation directly from the table is 0.056 mm. This differs from the value calculated in the example. The value taken directly from the table is provided as a minimum value. It is not suggested to use a calculated value that falls below this minimum.



Fig. 9. Measure RIC before installation.

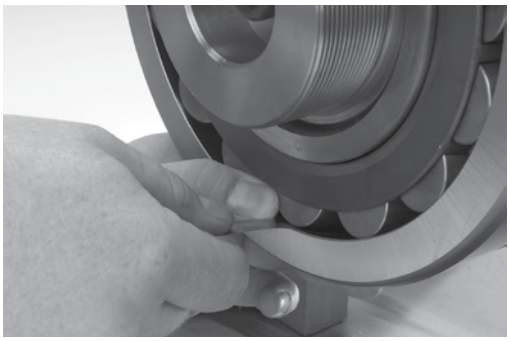


Fig. 10. After mounting, the RIC should be checked at the unloaded roller.

MOUNTING TAPERED BORE SPHERICAL ROLLER BEARINGS

- Use a feeler gage with the thinnest blade of 0.038 mm.
- Place the bearing in an upright position with the inner and outer rings facing parallel.
- Place thumbs on the inner ring bore and oscillate the inner ring the distance of two or three roller spacings.
- Position the individual roller assemblies so that a roller is at the top of the inner ring n both sides of the bearing.
- With the roller in the correct position, insert a thin blade of the feeler gage between the roller and the outer ring.
- Move the feeler gage carefully along the top roller between the roller and outer ring raceway. Repeat this procedure using thicker feeler gage blades until one is found that will not go through .
- The blade thickness that preceded the no-go blade is a measure of RIC before installation.
- Start the mounting procedure by lubricating the tapered shaft with a light coat of machine oil.
- Slide the bearing onto the shaft as far as it will go by hand.
- As the locknut is tightened, the interference fit builds up, resulting in expansion of the inner ring
- Periodically measure to monitor the reduction in RIC.
- Continue the procedure until the proper amount of reduction is obtained. Do not exceed calculated amount of reduction.
- As a final check, make sure the remaining RIC equals or exceeds the minimum mounted clearance shown in the table on the next page.
- During mounting, the RIC should be checked at the unloaded roller. If this is at the bottom, make sure that the roller is raised to seat firmly at the inboard position of the inner ring.
- When the suggested amount of RIC reduction has been accomplished, the bearing is properly fitted.
- Complete the procedure by peening the lockwasher tang into the locknut slot or securing the lockplate.

For more information about spherical roller bearings, please refer to the Spherical Roller Bearing Catalog (order number 10446).

TABLE 6. RADIAL INTERNAL CLEARANCE LIMITS – SPHERICAL ROLLER BEARINGS USED IN SNT HOUSINGS TAPERED BORE

Bore (Nominal)		Normal CO		C4		Suggested Reduction of RIC due to Installation		Axial Displacement of Inner Ring for RIC Reduction – SNT Tapered Sleeve Mounting[1] 1:12 Taper		Minimum Permissible RIC after Installation[1]		
		Min.	Max.	Min.	Max.							
			C3									
Over	Incl.		Min.	Max.		Min.	Max.	Min.	Max.	CO	C3	C4
mm	mm	µm	µm	µm	µm	µm	µm	µm	µm	µm	µm	µm
20	30	30	40	55	75	15	20	253	330	15	25	40
30	40	35	50	65	85	20	25	330	418	15	25	40
40	50	45	60	80	100	25	30	418	506	20	30	50
50	65	55	75	95	120	30	38	506	616	25	40	60
65	80	70	95	120	150	38	51	616	836	25	45	75
80	100	80	110	140	180	46	64	748	1067	36	50	75
100	120	100	135	170	220	51	71	836	1177	51	60	100
120	140	120	160	200	260	64	89	979	1397	56	75	115
140	160	130	180	230	300	76	102	1254	1672	56	75	125
160	180	140	200	260	340	76	114	1254	1815	61	90	150
180	200	160	220	290	370	89	127	1540	2090	71	100	165
200	225	180	250	320	410	102	140	1672	2233	76	115	180
225	250	200	270	350	450	114	152	1958	2519	89	115	200
250	280	220	300	390	490	114	165	1958	2794	102	140	230
280	315	240	330	430	540	127	178	2090	2937	102	150	250
315	355	270	360	470	590	140	190	2233	3069	114	165	280
355	400	300	400	520	650	152	203	2519	3355	127	190	330
400	450	330	440	570	720	165	216	2794	3630	152	230	360
450	500	370	490	630	790	178	229	2937	3773	165	270	410
500	560	410	540	680	870	203	254	3355	4191	178	290	440

[1]This displacement is valid for assembly of tapered bore bearings on solid steel shafts and is measured from a line-to-line fit of the bearing bore to the tapered shaft. For questions on tapered shaft data, consult your Timken engineer.

Note: Tolerance and shaft diameters are shown in the table as variances from nominal bearing bore.

TABLE 7. RADIAL INTERNAL CLEARANCE LIMITS – SPHERICAL ROLLER BEARINGS USED IN SNT HOUSINGS CYLINDRICAL BORE

Bore (Nominal)		Normal CO			C4	
		Min.		Max.	Min.	Max.
			C3			
Over	Incl.		Min.	Max.		
mm	mm	µm	µm	µm	µm	
20	30	25	40	55	75	
30	40	30	45	60	80	
40	50	35	55	75	100	
50	65	40	65	90	120	
65	80	50	80	110	145	
80	100	60	100	135	180	
100	120	75	120	160	210	
120	140	95	145	190	240	
140	160	110	170	220	280	
160	180	120	180	240	310	
180	200	130	200	260	340	
200	225	140	220	290	380	
225	250	150	240	320	420	
250	280	170	260	350	460	
280	315	190	280	370	500	
315	355	200	310	410	550	
355	400	220	340	450	600	
400	450	240	370	500	660	
450	500	260	410	550	720	
500	560	280	440	600	780	

STRENGTH LENGTH GUIDELINES

SHAFT END CLEARANCE VALUES – 500/600, 200/300 AND SNTN SERIES

The tables below provide the minimum required (S1) and maximum possible (S2) shaft lengths for cases where the shaft ending is inside the housing. The values provide guidance for shaft design, but may not take into account all application conditions like float and axial expansion. The minimum and maximum shaft length values are dimensioned from the center of the housing. Please contact your Timken representative if any special requirements are needed.

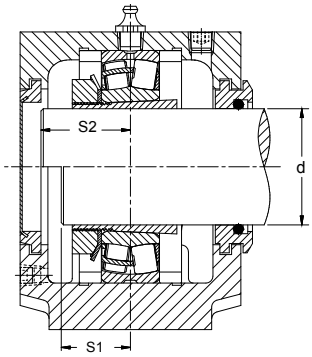


Fig. 11. Tapered bore bearing on adapter sleeve end cover/ labyrinth seal.

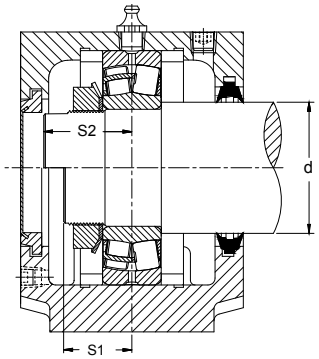


Fig. 12. Cylindrical bore bearing end cover/double-lip seal.

TABLE 8. MINIMUM AND MAXIMUM SHAFT LENGTHS 500/600 AND 200/300 SERIES – TWO- AND FOUR-BOLT

Housing	S1	S2
	mm	mm
SNT 205, SNT 505	18	23
SNT 206-305, SNT 506-605	19	29
SNT 207, SNT 507-606	22	30
SNT 208-307, SNT 508-607	23	32
SNT 209, SNT 509	24	31
SNT 210, SNT 510-608	28	34
(F)SNT 211 , (F)SNT 511-609	30	36
(F)SNT 212 , (F)SNT 512-610	33	41
(F)SNT 213 , (F)SNT 513-611	35	44
(F)SNT 215 , (F)SNT 515-612	37	46
(F)SNT 216 , (F)SNT 516-613	39	49
(F)SNT 217 , (F)SNT 517	37	51
(F)SNT 218 , (F)SNT 518-615	45	59
(F)SNT 519-616	47	60
(F)SNT 520-617	51	68
(F)SNT 522-619	57	73
(F)SNT 524-620	61	79
(F)SNT 526	64	82
(F)SNT 528	69	89
(F)SNT 530	75	95
(F)SNT 532	81	104

TABLE 9. MINIMUM AND MAXIMUM SHAFT LENGTHS LIGHT SERIES 3000

Housing	S1	S2
	mm	mm
SNTN 3024	46	72
SNTN 3026	50	79
SNTN 3028	52	79
SNTN 3030	55	87
SNTN 3032	59	87
SNTN 3034	63	92

SHAFT END CLEARANCE VALUES – 3000 AND 3100 SERIES

The tables below provide the minimum required (S1) and maximum possible (S2) shaft lengths for cases where the shaft ending is inside the housing. The values provide guidance for shaft design, but may not take into account all application conditions like float and axial expansion. The minimum and maximum shaft length values are dimensioned from the center of the housing. Please contact your Timken representative if any special requirements are needed.

Dimension C is provided in the tables on pages 48-61.

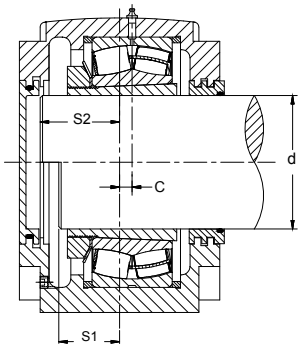


Fig. 13. Tapered bore bearing on adapter sleeve end cover/ labyrinth seal.

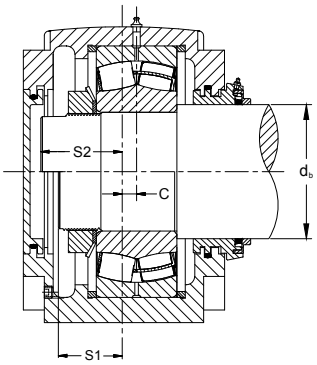


Fig. 14. Cylindrical bore bearing end cover/taconite seal.

TABLE 10. MINIMUM AND MAXIMUM SHAFT LENGTHS 3000 SERIES

Housing	S1	S2
	mm	mm
SNTD 3036 (G)	54	84
SNTD 3038 (G)	66	89
SNTD 3040 (G)	63	98
SNTD 3044 (G)	66	108
SNTD 3048 (G)	78	113
SNTD 3052 (G)	75	122
SNTD 3056 (G)	89	129
SNTD 3060 (G)	86	129
SNTD 3064 (G)	83	144
SNTD 3068 (G)	90	154
SNTD 3072 (G)	90	153
SNTD 3076F (G)	93	169
SNTD 3076L (G)	93	169
SNTD 3080F (G)	97	169
SNTD 3080L (G)	97	169
SNTD 3084F (G)	98	169
SNTD 3084L (G)	98	169
SNTD 3088F (G)	110	184
SNTD 3088L (G)	110	184
SNTD 3092F (G)	108	199
SNTD 3092L (G)	108	199
SNTD 3096F (G)	109	199
SNTD 3096L (G)	109	199
SNTD 30/500F (G)	118	199
SNTD 30/500L (G)	118	199
SNTD 30/530F (G)	127	199
SNTD 30/530L (G)	127	199

TABLE 11. MINIMUM AND MAXIMUM SHAFT LENGTHS 3100 SERIES

Housing	S1	S2
	mm	mm
SNTD 3134 (G)	57	84
SNTD 3136 (G)	61	89
SNTD 3138 (G)	71	98
SNTD 3140 (G)	79	108
SNTD 3144 (G)	84	113
SNTD 3148 (G)	86	122
SNTD 3152 (G)	99	129
SNTD 3156 (G)	99	129
SNTD 3160 (G)	99	144
SNTD 3164 (G)	108	154
SNTD 3168F (G)	126	169
SNTD 3168L (G)	126	169
SNTD 3172F (G)	125	169
SNTD 3172L (G)	125	169
SNTD 3176F (G)	128	169
SNTD 3176L (G)	128	169
SNTD 3180F (G)	133	184
SNTD 3180L (G)	133	184
SNTD 3184F (G)	148	199
SNTD 3184L (G)	148	199
SNTD 3188F (G)	149	199
SNTD 3188L (G)	149	199
SNTD 3192F (G)	161	204
SNTD 3192L (G)	161	204
SNTD 3196F (G)	165	204
SNTD 3196L (G)	165	204



SNT MOUNTED SPLIT PLUMMER BLOCK BEARING PRODUCT DATA TABLES

The following tables include product specification information for Timken SNT mounted split plummer block bearings. Contact your Timken engineer for more information.

Two-Bolt SNT Housings for Tapered Bore Bearings for Metric Shafts – 500/600 Series 18

Two-Bolt SNT Housings for Tapered Bore Bearings for Inch Shafts – 500/600 Series 22

Four-Bolt FSNT Housings for Tapered Bore Bearings for Metric Shafts – 500/600 Series 30

Four-Bolt FSNT Housings for Tapered Bore Bearings for Inch Shafts – 500/600 Series 34

Two-Bolt SNT Housings for Cylindrical Bore Bearings – 200/300 Series. 40

Four-Bolt FSNT Housings for Cylindrical Bore Bearings – 200/300 Series. 44

Four-Bolt SNTD Housings for Tapered Bore Bearings – 3000 and 3100 Series 48

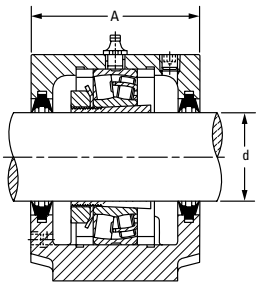
Four-Bolt SNTD Housings for Cylindrical Bore Bearings – 3000 and 3100 Series 54

SNTN Housings for Tapered Bore Bearings – 3000 Light Series 62

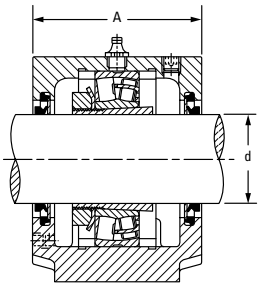
SNTN Housings For Cylindrical Bore Bearings – 3000 Light Series 64

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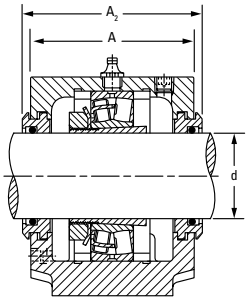
TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR METRIC SHAFTS – 500/600 SERIES



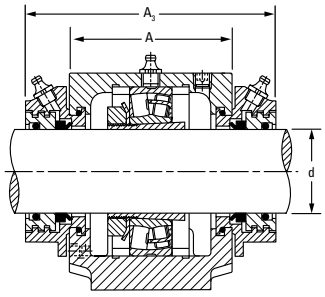
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

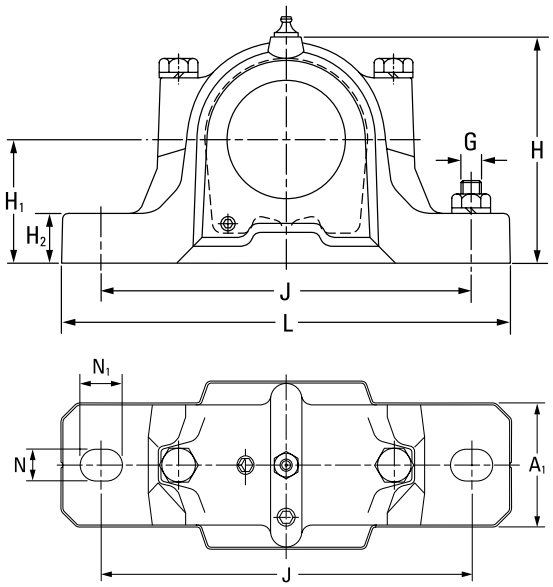


Taconite Seal

- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Housings shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., SNTD 505).

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
mm									
20	SNT 505 SNT 506-605	22205K 21305K	SR52X3.5 SR62X7.5	H305 H305	TSNG505 TSNG605	VR505 VR605	LO505 LO605	TA505 TA605	EC505 EC506-605
25	SNT 506-605 SNT 507-606	22206K 21306K	SR62X6 SR72X7.5	H306 H306	TSNG506 TSNG606	VR506 VR606	LO506 LO606	TA506 TA606	EC506-605 EC507-606
30	SNT 507-606 SNT 508-607	22207K 21307K	SR72X5.5 SR80X9	H307 H307	TSNG507 TSNG607	VR507 VR607	LO507 LO607	TA507 TA607	EC507-606 EC508-607
35	SNT 508-607 SNT 510-608 SNT 510-608	22208K 21308K 22308K	SR80X8 SR90X9 SR90X4	H308 H308 H2308	TSNG508 TSNG608 TSNG608	VR508 VR608 VR608	LO508 LO608 LO608	TA508 TA608 TA608	EC508-607 EC510-608 EC510-608
40	SNT 509 SNT 511-609 SNT 511-609	22209K 21309K 22309K	SR85X3.5 SR100X9.5 SR100X4	H309 H309 H2309	TSNG509 TSNG609 TSNG609	VR509 VR609 VR609	LO509 LO609 LO609	TA509 TA609 TA609	EC509 EC511-609 EC511-609
45	SNT 510-608 SNT 512-610 SNT 512-610	22210K 21310K 22310K	SR90X9 SR110X10.5 SR110X4	H310 H310 H2310	TSNG510 TSNG610 TSNG610	VR510 VR610 VR610	LO510 LO610 LO610	TA510 TA610 TA610	EC510-608 EC512-610 EC512-610
50	SNT 511-609 SNT 513-611 SNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	H311 H311 H2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511 LO611 LO611	TA511 TA611 TA611	EC511-609 EC513-611 EC513-611
55	SNT 512-610 SNT 515-612 SNT 515-612	22212K 21312K 22312K	SR110X10 SR130X12.5 SR130X5	H312 H312 H2312	TSNG512 TSNG612 TSNG612	VR512 VR612 VR612	LO512 LO612 LO612	TA512 TA612 TA612	EC512-610 EC515-612 EC515-612
60	SNT 513-611 SNT 516-613 SNT 516-613	22213K 21313K 22313K	SR120X10 SR140X12.5 SR140X5	H313 H313 H2313	TSNG513 TSNG613 TSNG613	VR513 VR613 VR613	LO513 LO613 LO613	TA513 TA613 TA613	EC513-611 EC516-613 EC516-613
65	SNT 515-612 SNT 518-615 SNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	H315 H315 H2315	TSNG515 TSNG615 TSNG615	VR515 VR615 VR615	LO515 LO615 LO615	TA515 TA615 TA615	EC515-612 EC518-615 EC518-615

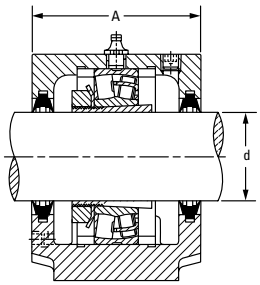
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



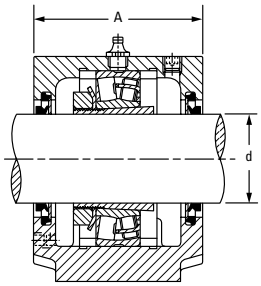
Housing Dimensions											2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
67	46	80	130	74	40	19	130	165	15	20	12	1.5
77	52	89	135	89	50	22	150	185	15	20	12	2.0
77	52	89	135	89	50	22	150	185	15	20	12	2.0
82	52	94	140	93	50	22	150	185	15	20	12	2.2
82	52	94	140	93	50	22	150	185	15	20	12	2.2
85	60	97	145	108	60	25	170	205	15	20	12	2.9
85	60	97	145	108	60	25	170	205	15	20	12	2.9
90	60	102	150	113	60	25	170	205	15	20	12	3.2
90	60	102	150	113	60	25	170	205	15	20	12	3.2
85	60	97	150	109	60	25	170	205	15	20	12	2.9
95	70	107	155	128	70	28	210	255	18	24	16	4.5
95	70	107	155	128	70	28	210	255	18	24	16	4.5
90	60	102	150	113	60	25	170	205	15	20	12	3.2
105	70	117	165	134	70	30	210	255	18	24	16	5.3
105	70	117	165	134	70	30	210	255	18	24	16	5.3
95	70	107	155	128	70	28	210	255	18	24	16	4.5
110	80	122	170	150	80	30	230	275	18	24	16	6.6
110	80	122	170	150	80	30	230	275	18	24	16	6.6
105	70	117	165	134	70	30	210	255	18	24	16	5.3
115	80	127	175	156	80	30	230	280	18	24	16	6.9
115	80	127	175	156	80	30	230	280	18	24	16	6.9
110	80	122	170	150	80	30	230	275	18	24	16	6.6
120	90	138	180	177	95	32	260	315	22	28	20	9.7
120	90	138	180	177	95	32	260	315	22	28	20	9.7
115	80	127	175	156	80	30	230	280	18	24	16	6.9
140	100	158	225	194	100	35	290	345	22	28	20	13.1
140	100	158	225	194	100	35	290	345	22	28	20	13.1

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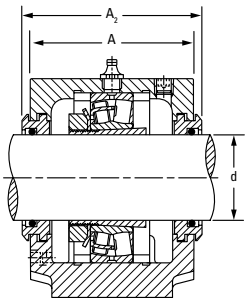
TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR METRIC SHAFTS – 500/600 SERIES



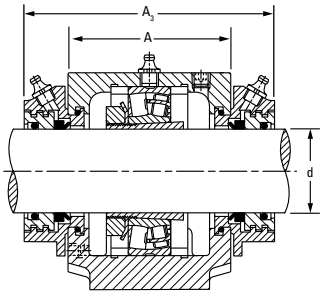
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

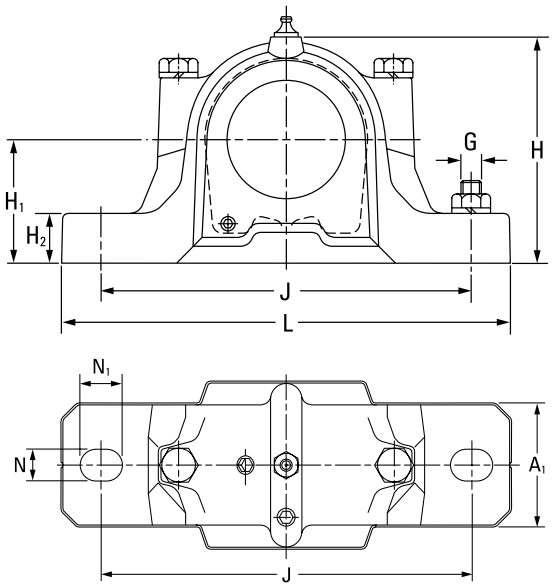


Taconite Seal

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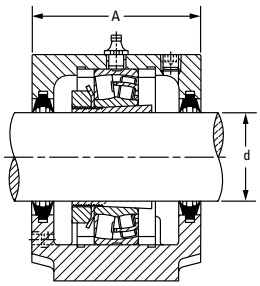
Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
mm									
70	SNT 516-613 SNT 519-616 SNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	H316 H316 H2316	TSNG516 TSNG616 TSNG616	VR516 VR616 VR616	LO516 LO616 LO616	TA516 TA616 TA616	EC516-613 EC519-616 EC519-616
75	SNT 517 SNT 520-617 SNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	H317 H317 H2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517 LO617 LO617	TA517 TA617 TA617	EC517 EC520-617 EC520-617
80	SNT 518-615 SNT 518-615	22218K 23218K	SR160X12.5 SR160X6.25	H318 H2318	TSNG518 TSNG518	VR518 VR518	LO518 LO518	TA518 TA518	EC518-615 EC518-615
85	SNT 519-616 SNT 522-619 SNT 522-619	22219K 21319K 22319K	SR170X12.5 SR200X17.5 SR200X6.5	H319 H319 H2319	TSNG519 TSNG619 TSNG619	VR519 VR619 VR619	LO519 LO619 LO619	TA519 TA619 TA619	EC519-616 EC522-619 EC522-619
90	SNT 520-617 SNT 520-617 SNT 524-620 SNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	H320 H2320 H320 H2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520 LO520 LO620 LO620	TA520 TA520 TA620 TA620	EC520-617 EC520-617 EC524-620 EC524-620
100	SNT 522-619 SNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	H322 H2322	TSNG522 TSNG522	VR522 VR522	LO522 LO522	TA522 TA522	EC522-619 EC522-619
110	SNT 524-620 SNT 524-620	22224K 23224K	SR215X14 SR215X5	H3124 H2324	TSNG524 TSNG524	VR524 VR524	LO524 LO524	TA524 TA524	EC524-620 EC524-620
115	SNT 526 SNT 526	22226K 23226K	SR230X13 SR230X5	H3126 H2326	TSNG526 TSNG526	VR526 VR526	LO526 LO526	TA526 TA526	EC526 EC526
125	SNT 528 SNT 528	22228K 23228K	SR250X15 SR250X5	H3128 H2328	TSNG528 TSNG528	VR528 VR528	LO528 LO528	TA528 TA528	EC528 EC528
135	SNT 530 SNT 530	22230K 23230K	SR270X16.5 SR270X5	H3130 H2330	TSNG530 TSNG530	VR530 VR530	LO530 LO530	TA530 TA530	EC530 EC530
140	SNT 532 SNT 532	22232K 23232K	SR290X17 SR290X5	H3132 H2332	TSNG532 TSNG532	VR532 VR532	LO532 LO532	TA532 TA532	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.

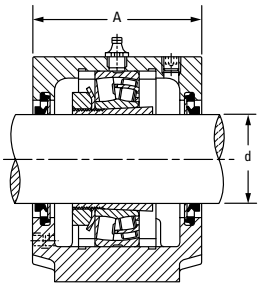


Housing Dimensions											2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
120	90	138	180	177	95	32	260	315	22	28	20	9.7
145	100	163	220	212	112	35	290	345	22	28	20	14.0
145	100	163	220	212	112	35	290	345	22	28	20	14.0
125	90	143	210	183	95	32	260	320	22	28	20	10.4
160	110	178	235	218	112	40	320	380	26	32	24	17.6
160	110	178	235	218	112	40	320	380	26	32	24	17.6
140	100	158	225	194	100	35	290	345	22	28	20	13.1
140	100	158	225	194	100	35	290	345	22	28	20	13.1
145	100	163	220	212	112	35	290	345	22	28	20	14.0
175	120	191	250	242	125	45	344	410	32	26	24	22.3
175	120	191	250	242	125	45	350	410	26	32	24	22.3
160	110	178	235	218	112	40	320	380	26	32	24	17.6
160	110	178	235	218	112	40	320	380	26	32	24	17.6
185	120	199	260	271	140	45	350	410	26	32	24	26.5
185	120	199	260	271	140	45	350	410	26	32	24	26.5
175	120	191	250	242	125	45	350	410	26	32	24	22.3
175	120	191	250	242	125	45	350	410	26	32	24	22.3
185	120	199	260	271	140	45	350	410	26	32	24	26.5
185	120	199	260	271	140	45	350	410	26	32	24	26.5
190	130	208	265	290	150	50	380	445	28	35	24	34.0
190	130	208	265	290	150	50	380	445	28	35	24	34.0
205	150	223	285	302	150	50	420	500	35	42	30	39.0
205	150	223	285	302	150	50	420	500	35	42	30	39.0
220	160	241	295	323	160	60	450	530	35	42	30	48.0
220	160	241	295	323	160	60	450	530	35	42	30	48.0
235	160	254	315	344	170	60	470	550	35	42	30	54.5
235	160	254	315	344	170	60	470	550	35	42	30	54.5

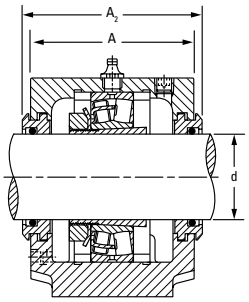
TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS - 500/600 SERIES



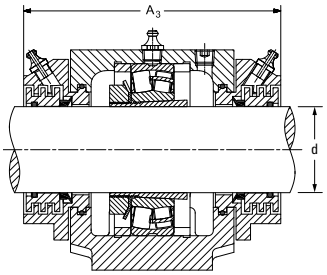
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

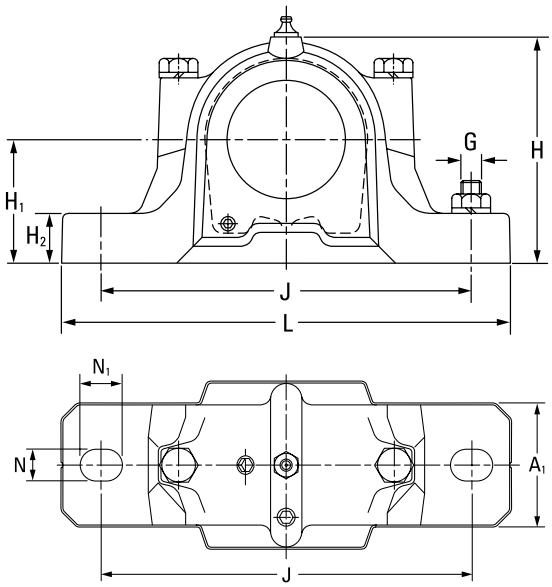


Taconite Seal

- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Housings shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., SNTD 505).

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
¾	SNT 505 SNT 506-605	22205K 21305K	SR52X3.5 SR62X7.5	HE305 HE305	– TSNG605	VR505 VR605	LO505/ 3/4 LO605/ 3/4	TA505/ 3/4 TA605/ 3/4	EC505 EC506-605
15⁄16	SNT 506-605 SNT 507-606	22206K 21306K	SR62X6 SR72X7.5	HA306 HA306	– TSNG606	VR506 VR606	LO506/ 15/16 LO606/ 15/16	TA506/ 15/16 TA606/ 15/16	EC506-605 EC507-606
1	SNT 506-605 SNT 507-606	22206K 21306K	SR62X6 SR72X7.5	HE306 HE2306	– TSNG606	VR506 VR606	LO506/ 1 LO606/ 1	TA506/ 1 TA606/ 1	EC506-605 EC507-606
1 3⁄16	SNT 507-606 SNT 508-607	22207K 21307K	SR72X5.5 SR80X9	HA307 HA307	TSNG507 TSNG607	VR507 VR607	LO507/ 1-3/16 LO607/ 1-3/16	TA507/ 1-3/16 TA607/ 1-3/16	EC507-606 EC508-607
1 ¼	SNT 508-607 SNT 510-608 SNT 510-608	22208K 21308K 22308K	SR80X8 SR90X9 SR90X4	HE308 HE308 HE2308	– – –	– – –	LO508/ 1-1/4 LO608/ 1-1/4 LO608/ 1-1/4	TA508/ 1-1/4 TA608/ 1-1/4 TA608/ 1-1/4	EC508-607 EC510-608 EC510-608
1 7⁄16	SNT 509 SNT 511-609 SNT 511-609	22209K 21309K 22309K	SR85X3.5 SR100X9.5 SR100X4	HA309 HA309 HA2309	– – –	– – –	LO509/ 1-7/16 LO609/ 1-7/16 LO609/ 1-7/16	TA509/ 1-7/16 TA609/ 1-7/16 TA609/ 1-7/16	EC509 EC511-609 EC511-609
1 ½	SNT 509 SNT 511-609 SNT 511-609	22209K 21309K 22309K	SR85X3.5 SR100X9.5 SR100X4	HE309 HE309 HE2309	– – –	– – –	LO509/ 1-1/2 LO609/ 1-1/2 LO609/ 1-1/2	TA509/ 1-1/2 TA609/ 1-1/2 TA609/ 1-1/2	EC509 EC511-609 EC511-609
1 11⁄16	SNT 510-608 SNT 512-610 SNT 512-610	22210K 21310K 22310K	SR90X9 SR110X10.5 SR110X4	HA310 HA310 HA2310	– – –	VR510 VR610 VR610	LO510/ 1-11/16 LO610/ 1-11/16 LO610/ 1-11/16	TA510/ 1-11/16 TA610/ 1-11/16 TA610/ 1-11/16	EC510-608 EC512-610 EC512-610
1 ¾	SNT 510-608 SNT 512-610 SNT 512-610	22210K 21310K 22310K	SR90X9 SR110X10.5 SR110X4	HE310 HE310 HE2310	TSNG510 TSNG610 TSNG610	VR510 VR610 VR610	LO510/ 1-3/4 LO610/ 1-3/4 LO610/ 1-3/4	TA510/ 1-3/4 TA610/ 1-3/4 TA610/ 1-3/4	EC510-608 EC512-610 EC512-610

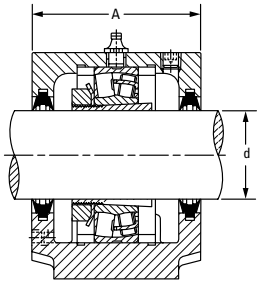
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



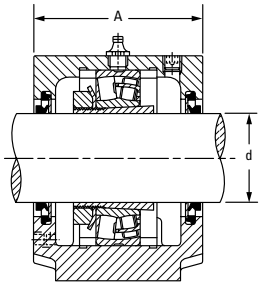
Housing Dimensions													2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
67	46	80	113	74	40	19	123	130	137	165	15	20	12	1.5
77	52	89	123	89	50	22	143	150	157	185	15	20	12	2
77	52	89	123	89	50	22	143	150	157	185	15	20	12	2
82	52	94	128	93	50	22	143	150	157	185	15	20	12	2.2
77	52	89	123	89	50	22	143	150	157	185	15	20	12	2
82	52	94	128	93	50	22	143	150	157	185	15	20	12	2.2
82	52	94	128	93	50	22	143	150	157	185	15	20	12	2.2
85	60	97	131	108	60	25	165	170	175	205	15	20	12	2.9
85	60	97	131	108	60	25	165	170	175	205	15	20	12	2.9
90	60	102	136	113	60	25	165	170	175	205	15	20	12	3.2
90	60	102	136	113	60	25	165	170	175	205	15	20	12	3.2
85	60	97	137	109	60	25	165	170	175	205	15	20	12	2.9
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
85	60	97	137	109	60	25	165	170	175	205	15	20	12	2.9
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
90	60	102	142	113	60	25	165	170	175	205	15	20	12	3.2
105	70	117	157	134	70	30	205	210	215	255	18	24	16	5.3
105	70	117	157	134	70	30	205	210	215	255	18	24	16	5.3
90	60	102	142	113	60	25	165	170	175	205	15	20	12	3.2
105	70	117	157	134	70	30	205	210	215	255	18	24	16	5.3
105	70	117	157	134	70	30	205	210	215	255	18	24	16	5.3

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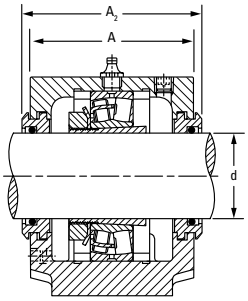
TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS - 500/600 SERIES



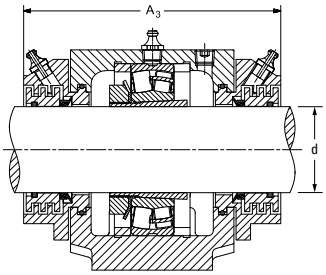
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

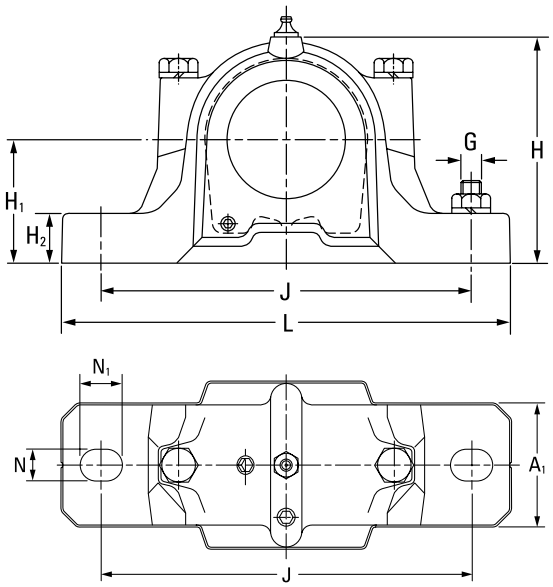


Taconite Seal

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Shaft Dia. d in.	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
1 15/16	SNT 511-609 SNT 513-611 SNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	HA311 HA311 HA2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511/ 1-15/16 LO611/ 1-15/16 LO611/ 1-15/16	TA511/ 1-15/16 TA611/ 1-15/16 TA611/ 1-15/16	EC511-609 EC513-611 EC513-611
2	SNT 511-609 SNT 513-611 SNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	HE311 HE311 HE2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511/ 2 LO611/ 2 LO611/ 2	TA511/ 2 TA611/ 2 TA611/ 2	EC511-609 EC513-611 EC513-611
2 1/4	SNT 513-611 SNT 516-613 SNT 516-613	22213K 21313K 22313K	SR120X10 SR140X12.5 SR140X5	HE313 HE313 HE2313	- - -	VR513 VR613 VR613	LO513/ 2-1/4 LO613/ 2-1/4 LO613/ 2-1/4	TA513/ 2-1/4 TA613/ 2-1/4 TA613/ 2-1/4	EC513-611 EC516-613 EC516-613
2 7/16	SNT 515-612 SNT 518-615 SNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	HA315 HA315 HA2315	- - -	- - -	LO515/ 2-7/16 LO615/ 2-7/16 LO615/ 2-7/16	TA515/ 2-7/16 TA615/ 2-7/16 TA615/ 2-7/16	EC515-612 EC518-615 EC518-615
2 1/2	SNT 515-612 SNT 518-615 SNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	HE315 HE315 HE2315	- - -	VR515 VR615 VR615	LO515/ 2-1/2 LO615/ 2-1/2 LO615/ 2-1/2	TA515/ 2-1/2 TA615/ 2-1/2 TA615/ 2-1/2	EC515-612 EC518-615 EC518-615
2 11/16	SNT 516-613 SNT 519-616 SNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	HA316 HA316 HA2316	- - -	VR516 VR616 VR616	LO516/ 2-11/16 LO616/ 2-11/16 LO616/ 2-11/16	TA516/ 2-11/16 TA616/ 2-11/16 TA616/ 2-11/16	EC516-613 EC519-616 EC519-616
2 3/4	SNT 516-613 SNT 519-616 SNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	HE316 HE316 HE2316	TSNG516 TSNG616 TSNG616	VR516 VR616 VR616	LO516/ 2-3/4 LO616/ 2-3/4 LO616/ 2-3/4	TA516/ 2-3/4 TA616/ 2-3/4 TA616/ 2-3/4	EC516-613 EC519-616 EC519-616
2 15/16	SNT 517 SNT 520-617 SNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	HA317 HA317 HA2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517/ 2-15/16 LO617/ 2-15/16 LO617/ 2-15/16	TA517/ 2-15/16 TA617/ 2-15/16 TA617/ 2-15/16	EC517 EC520-617 EC520-617

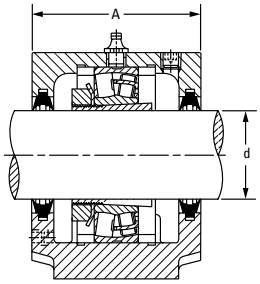
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



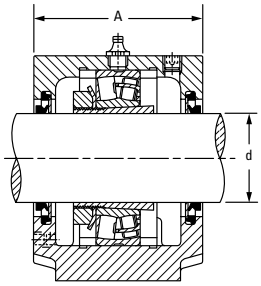
Housing Dimensions													2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
110	80	122	162	150	80	30	224	230	236	275	18	24	16	6.6
110	80	122	162	150	80	30	224	230	236	275	18	24	16	6.6
95	70	107	147	128	70	28	205	210	215	255	18	24	16	4.5
110	80	122	162	150	80	30	224	230	236	275	18	24	16	6.6
110	80	122	162	150	80	30	224	230	236	275	18	24	16	6.6
110	80	122	162	150	80	30	224	230	236	275	18	24	16	6.6
120	90	138	176	177	95	32	252	260	268	315	22	28	20	9.7
120	90	138	176	177	95	32	252	260	268	315	22	28	20	9.7
115	80	127	167	156	80	30	222	230	238	280	18	24	16	6.9
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
115	80	127	167	156	80	30	222	230	238	280	18	24	16	6.9
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
120	90	138	176	177	95	32	252	260	268	315	22	28	20	9.7
145	100	163	201	212	112	35	285	290	295	345	22	28	20	14
145	100	163	201	212	112	35	285	290	295	345	22	28	20	14
120	90	138	176	177	95	32	252	260	268	315	22	28	20	9.7
145	100	163	201	212	112	35	285	290	295	345	22	28	20	14
145	100	163	201	212	112	35	285	290	295	345	22	28	20	14
125	90	143	181	183	95	32	252	260	268	320	22	28	20	10.4
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6

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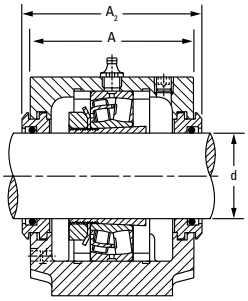
TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS – 500/600 SERIES



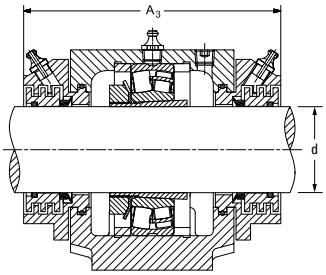
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

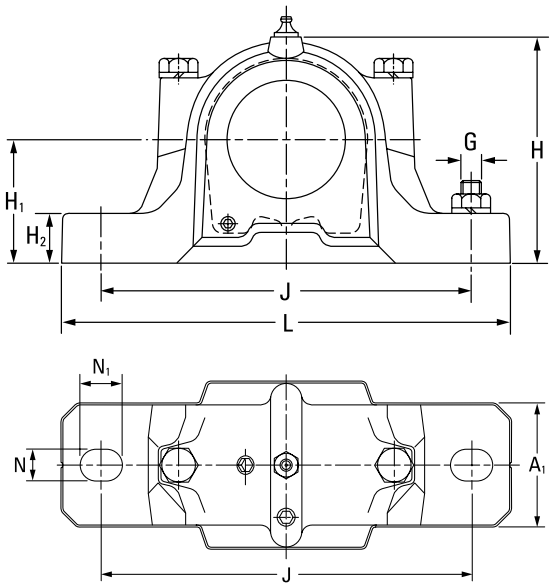


Taconite Seal

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Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
3	SNT 517 SNT 520-617 SNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	HE317 H317 HE2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517/ 3 LO617/ 3 LO617/ 3	TA517/ 3 TA617/ 3 TA617/ 3	EC517 EC520-617 EC520-617
3 3/16	SNT 518-615 SNT 518-615	22218K 23218K	SR160X12.5 SR160X6.25	HA318 HA2318	TSNG518 TSNG518	VR518 VR518	LO518/ 3-3/16 LO518/ 3-3/16	TA518/ 3-3/16 TA518/ 3-3/16	EC518-615 EC518-615
3 1/4	SNT 518-615 SNT 518-615 SNT 522-619 SNT 522-619	22218K 23218K 21319K 22319K	SR160X12.5 SR160X6.25 SR200X17.5 SR200X6.5	HE318 HE2318 HE319 HE2319	TSNG518 TSNG518 TSNG619 TSNG619	VR518 VR518 VR619 VR619	LO518/ 3-1/4 LO518/ 3-1/4 LO619/ 3-1/4 LO619/ 3-1/4	TA518/ 3-1/4 TA518/ 3-1/4 TA619/ 3-1/4 TA619/ 3-1/4	EC518-615 EC518-615 EC522-619 EC522-619
3 7/16	SNT 520-617 SNT 520-617 SNT 524-620 SNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	HA320 HA2320 HA2320 HA2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520/ 3-7/16 LO520/ 3-7/16 LO620/ 3-7/16 LO620/ 3-7/16	TA520/ 3-7/16 TA520/ 3-7/16 TA620/ 3-7/16 TA620/ 3-7/16	EC520-617 EC520-617 EC524-620 EC524-620
3 1/2	SNT 520-617 SNT 520-617 SNT 524-620 SNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	HE320 HE2320 HE2320 HE2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520/ 3-1/2 LO520/ 3-1/2 LO620/ 3-1/2 LO620/ 3-1/2	TA520/ 3-1/2 TA520/ 3-1/2 TA620/ 3-1/2 TA620/ 3-1/2	EC520-617 EC520-617 EC524-620 EC524-620
3 15/16	SNT 522-619 SNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	H322 H2322	TSNG522 TSNG522	VR522 VR522	LO522/ 3-15/16 LO522/ 3-15/16	TA522/ 3-15/16 TA522/ 3-15/16	EC522-619 EC522-619
4	SNT 522-619 SNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	HE322 HE2322	TSNG522 TSNG522	VR522 VR522	LO522/ 4 LO522/ 4	TA522/ 4 TA522/ 4	EC522-619 EC522-619
4 3/16	SNT 524-620 SNT 524-620	22224K 23224K	SR215X14 SR215X5	HA3124 HA2324	- -	VR524 VR524	LO524/ 4-3/16 LO524/ 4-3/16	TA524/ 4-3/16 TA524/ 4-3/16	EC524-620 EC524-620
4 1/4	SNT 524-620 SNT 524-620	22224K 23224K	SR215X14 SR215X5	HE3124 HE2324	- -	VR524 VR524	LO524/ 4-1/4 LO524/ 4-1/4	TA524/ 4-1/4 TA524/ 4-1/4	EC524-620 EC524-620

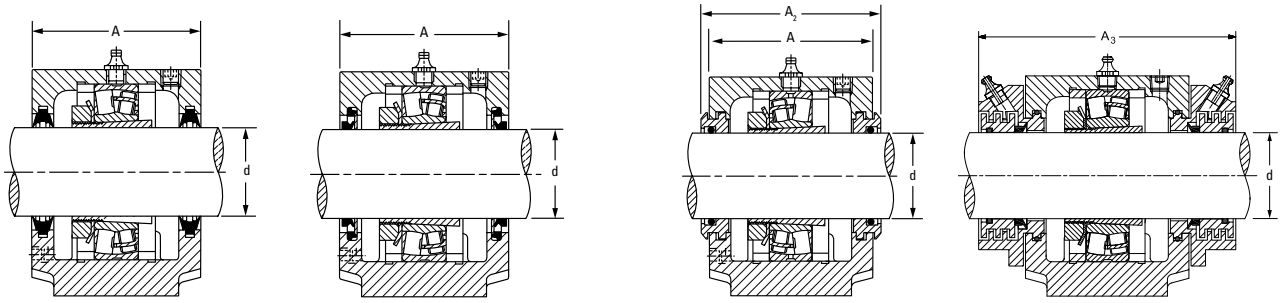
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



Housing Dimensions													2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
125	90	143	181	183	95	32	252	260	268	320	22	28	20	10.4
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
140	100	158	198	194	100	35	285	290	295	345	22	28	20	13.1
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
160	110	178	216	218	112	40	314	320	326	380	26	32	24	17.6
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
175	120	191	231	242	125	45	344	350	356	410	26	32	24	22.3
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5
185	120	199	241	271	140	45	344	350	356	410	26	32	24	26.5

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TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS – 500/600 SERIES

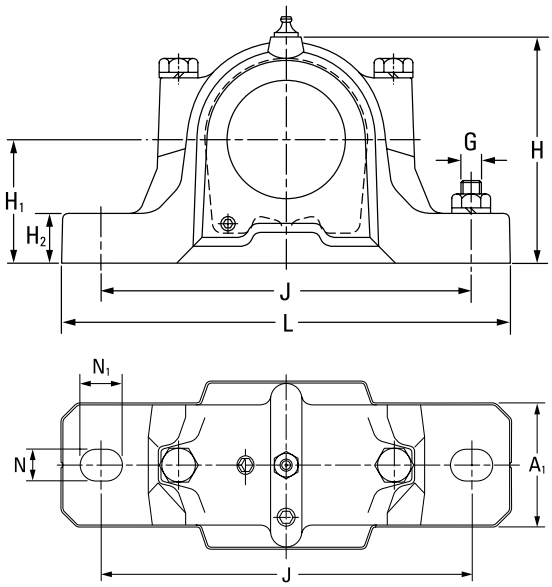


Double-Lip Seal **V-Ring Seal** **Labyrinth Seal** **Taconite Seal**

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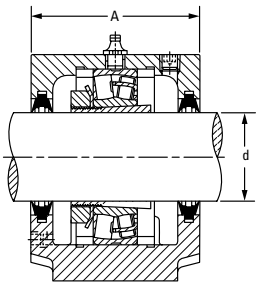
Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
4 7/16	SNT 526 SNT 526	22226K 23226K	SR230X13 SR230X5	HA3126 HA2326	TSNG526 TSNG526	VR526 VR526	LO526/ 4-7/16 LO526/ 4-7/16	TA526/ 4-7/16 TA526/ 4-7/16	EC526 EC526
4 1/2	SNT 526 SNT 526	22226K 23226K	SR230X13 SR230X5	HA3126 HA2326	TSNG526 TSNG526	VR526 VR526	LO526/ 4-1/2 LO526/ 4-1/2	TA526/ 4-1/2 TA526/ 4-1/2	EC526 EC526
4 15/16	SNT 528 SNT 528	22228K 23228K	SR250X15 SR250X5	HA3128 HA2328	TSNG528 TSNG528	VR528 VR528	LO528/ 4-15/16 LO528/ 4-15/16	TA528/ 4-15/16 TA528/ 4-15/16	EC528 EC528
5	SNT 528 SNT 528	22228K 23228K	SR250X15 SR250X5	HE3128 HE2328	TSNG528 TSNG528	VR528 VR528	LO528/ 5 LO528/ 5	TA528/ 5 TA528/ 5	EC528 EC528
5 3/16	SNT 530 SNT 530	22230K 23230K	SR270X16.5 SR270X5	HA3130 HA2330	TSNG530 TSNG530	VR530 VR530	LO530/ 5-3/16 LO530/ 5-3/16	TA530/ 5-3/16 TA530/ 5-3/16	EC530 EC530
5 1/4	SNT 530 SNT 530	22230K 23230K	SR270X16.5 SR270X5	HE3130 HE2330	TSNG530 TSNG530	VR530 VR530	LO530/ 5-1/4 LO530/ 5-1/4	TA530/ 5-1/4 TA530/ 5-1/4	EC530 EC530
5 7/16	SNT 532 SNT 532	22232K 23232K	SR290X17 SR290X5	HA3132 HA2332	TSNG532 TSNG532	VR532 VR532	LO532/ 5-7/16 LO532/ 5-7/16	TA532/ 5-7/16 TA532/ 5-7/16	EC532 EC532
5 1/2	SNT 532 SNT 532	22232K 23232K	SR290X17 SR290X5	HE3132 HE2332	TSNG532 TSNG532	VR532 VR532	LO532/ 5-1/2 LO532/ 5-1/2	TA532/ 5-1/2 TA532/ 5-1/2	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.

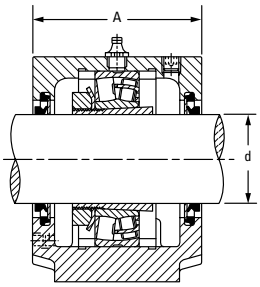


Housing Dimensions													2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
190	130	208	248	290	150	50	373	380	387	445	28	35	24	34
190	130	208	248	290	150	50	373	380	387	445	28	35	24	34
190	130	208	248	290	150	50	373	380	387	445	28	35	24	34
190	130	208	248	290	150	50	373	380	387	445	28	35	24	34
205	150	223	263	302	150	50	413	420	427	500	35	42	30	39
205	150	223	263	302	150	50	413	420	427	500	35	42	30	39
205	150	223	263	302	150	50	413	420	427	500	35	42	30	39
205	150	223	263	302	150	50	413	420	427	500	35	42	30	39
220	160	241	276	323	160	60	443	450	457	530	35	42	30	48
220	160	241	276	323	160	60	443	450	457	530	35	42	30	48
220	160	241	276	323	160	60	443	450	457	530	35	42	30	48
220	160	241	276	323	160	60	443	450	457	530	35	42	30	48
235	160	254	291	344	170	60	463	470	477	550	35	42	30	54.5
235	160	254	291	344	170	60	463	470	477	550	35	42	30	54.5
235	160	254	291	344	170	60	463	470	477	550	35	42	30	54.5
235	160	254	291	344	170	60	463	470	477	550	35	42	30	54.5

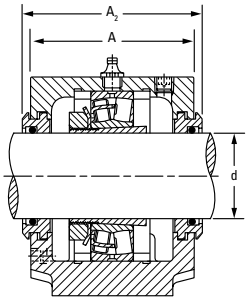
FOUR-BOLT FSNT HOUSINGS FOR TAPERED BORE BEARINGS FOR METRIC SHAFTS – 500/600 SERIES



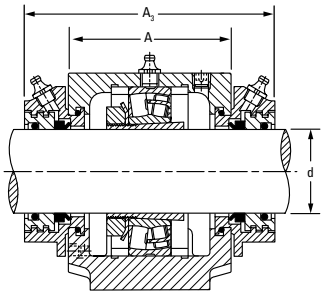
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

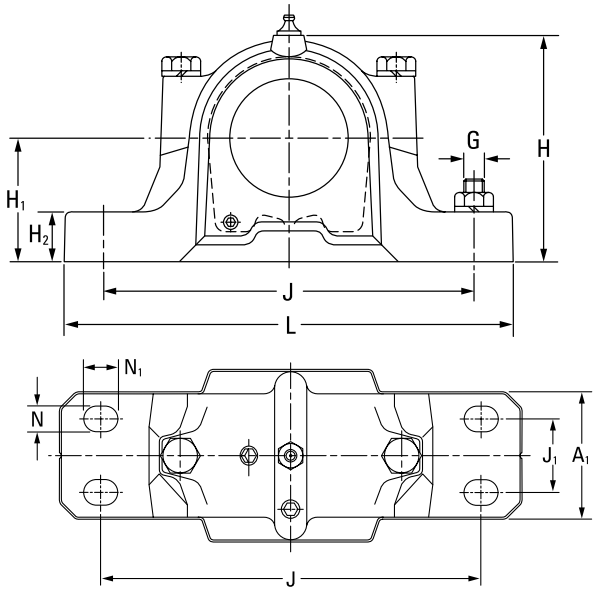


Taconite Seal

- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Assemblies shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., FSNTD 511-609).

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
mm									
40	FSNT 511-609 FSNT 511-609	21309K 22309K	SR100X9.5 SR100X4	H309 H2309	TSNG609 TSNG609	VR609 VR609	LO609 LO609	TA609 TA609	EC511-609 EC511-609
45	FSNT 512-610 FSNT 512-610	21310K 22310K	SR110X10.5 SR110X4	H310 H2310	TSNG610 TSNG610	VR610 VR610	LO610 LO610	TA610 TA610	EC512-610 EC512-610
50	FSNT 511-609 FSNT 513-611 FSNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	H311 H311 H2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511 LO611 LO611	TA511 TA611 TA611	EC511-609 EC513-611 EC513-611
55	FSNT 512-610 FSNT 515-612 FSNT 515-612	22212K 21312K 22312K	SR110X10 SR130X12.5 SR130X5	H312 H312 H2312	TSNG512 TSNG612 TSNG612	VR512 VR612 VR612	LO512 LO612 LO612	TA512 TA612 TA612	EC512-610 EC515-612 EC515-612
60	FSNT 513-611 FSNT 516-613 FSNT 516-613	22213K 21313K 22313K	SR120X10 SR140X12.5 SR140X5	H313 H313 H2313	TSNG513 TSNG613 TSNG613	VR513 VR613 VR613	LO513 LO613 LO613	TA513 TA613 TA613	EC513-611 EC516-613 EC516-613
65	FSNT 515-612 FSNT 518-615 FSNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	H315 H315 H2315	TSNG515 TSNG615 TSNG615	VR515 VR615 VR615	LO515 LO615 LO615	TA515 TA615 TA615	EC515-612 EC518-615 EC518-615
70	FSNT 516-613 FSNT 519-616 FSNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	H316 H316 H2316	TSNG516 TSNG616 TSNG616	VR516 VR616 VR616	LO516 LO616 LO616	TA516 TA616 TA616	EC516-613 EC519-616 EC519-616
75	FSNT 517 FSNT 520-617 FSNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	H317 H317 H2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517 LO617 LO617	TA517 TA617 TA617	EC517 EC520-617 EC520-617

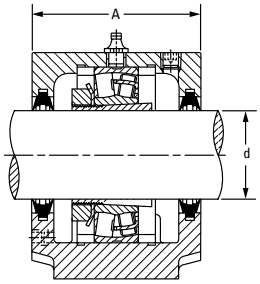
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



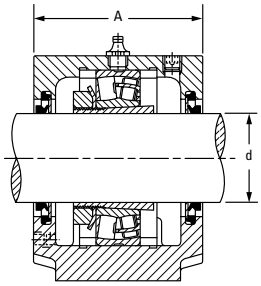
Housing Dimensions												4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
95	70	107	155	128	70	28	210	35	255	15	20	12	4.5
95	70	107	155	128	70	28	210	35	255	15	20	12	4.5
105	70	117	165	134	70	30	210	35	255	15	20	12	5.3
105	70	117	165	134	70	30	210	35	255	15	20	12	5.3
95	70	107	155	128	70	28	210	35	255	15	20	12	4.5
110	80	122	170	150	80	30	230	40	275	15	20	12	6.6
110	80	122	170	150	80	30	230	40	275	15	20	12	6.6
105	70	117	165	134	70	30	210	35	255	15	20	12	5.3
115	80	127	175	156	80	30	230	40	280	15	20	12	6.9
115	80	127	175	156	80	30	230	40	280	15	20	12	6.9
110	80	122	170	150	80	30	230	40	275	15	20	12	6.6
120	90	138	180	177	95	32	260	50	315	18	24	16	9.7
120	90	138	180	177	95	32	260	50	315	18	24	16	9.7
115	80	127	175	156	80	30	230	40	280	15	20	12	6.9
140	100	158	225	194	100	35	290	50	345	18	24	16	13.1
140	100	158	225	194	100	35	290	50	345	18	24	16	13.1
120	90	138	180	177	95	32	260	50	315	18	24	16	9.7
145	100	163	220	212	112	35	290	50	345	18	24	16	14.0
145	100	163	220	212	112	35	290	50	345	18	24	16	14.0
125	90	143	210	183	95	32	260	50	320	18	24	16	10.4
160	110	178	235	218	112	40	320	60	380	18	24	16	17.6
160	110	178	235	218	112	40	320	60	380	18	24	16	17.6

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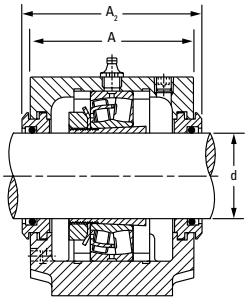
FOUR-BOLT FSNT HOUSINGS FOR TAPERED BORE BEARINGS FOR METRIC SHAFTS – 500/600 SERIES



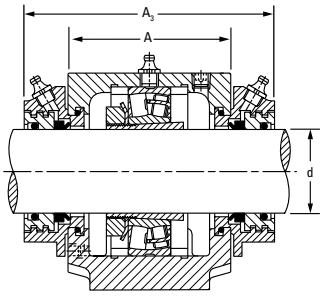
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

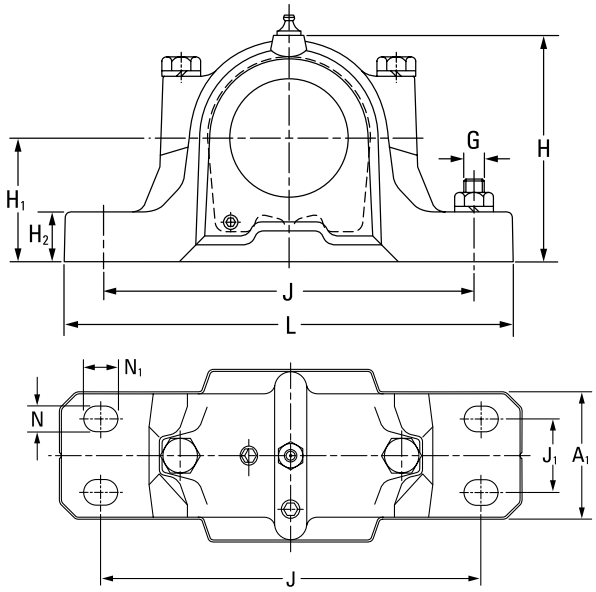


Taconite Seal

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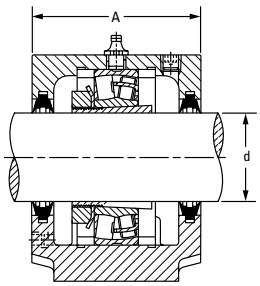
Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
mm									
80	FSNT 518-615 FSNT 518-615	22218K 23218K	SR160X12.5 SR160X6.25	H318 H2318	TSNG518 TSNG518	VR518 VR518	LO518 LO518	TA518 TA518	EC518-615 EC518-615
85	FSNT 519-616 FSNT 522-619 FSNT 522-619	22219K 21319K 22319K	SR170X12.5 SR200X17.5 SR200X6.5	H319 H319 H2319	TSNG519 TSNG619 TSNG619	VR519 VR619 VR619	LO519 LO619 LO619	TA519 TA619 TA619	EC519-616 EC522-619 EC522-619
90	FSNT 520-617 FSNT 520-617 FSNT 524-620 FSNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	H320 H2320 H320 H2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520 LO520 LO620 LO620	TA520 TA520 TA620 TA620	EC520-617 EC520-617 EC524-620 EC524-620
100	FSNT 522-619 FSNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	H322 H2322	TSNG522 TSNG522	VR522 VR522	LO522 LO522	TA522 TA522	EC522-619 EC522-619
110	FSNT 524-620 FSNT 524-620	22224K 23224K	SR215X14 SR215X5	H3124 H2324	TSNG524 TSNG524	VR524 VR524	LO524 LO524	TA524 TA524	EC524-620 EC524-620
115	FSNT 526 FSNT 526	22226K 23226K	SR230X13 SR230X5	H3126 H2326	TSNG526 TSNG526	VR526 VR526	LO526 LO526	TA526 TA526	EC526 EC526
125	FSNT 528 FSNT 528	22228K 23228K	SR250X15 SR250X5	H3128 H2328	TSNG528 TSNG528	VR528 VR528	LO528 LO528	TA528 TA528	EC528 EC528
135	FSNT 530 FSNT 530	22230K 23230K	SR270X16.5 SR270X5	H3130 H2330	TSNG530 TSNG530	VR530 VR530	LO530 LO530	TA530 TA530	EC530 EC530
140	FSNT 532 FSNT 532	22232K 23232K	SR290X17 SR290X5	H3132 H2332	TSNG532 TSNG532	VR532 VR532	LO532 LO532	TA532 TA532	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.

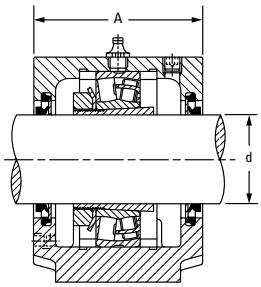


Housing Dimensions												4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
140	100	158	225	194	100	35	290	50	345	18	24	16	13.1
140	100	158	225	194	100	35	290	50	345	18	24	16	13.1
145	100	163	220	212	112	35	290	50	345	18	24	16	14.0
175	120	191	250	242	125	45	350	70	410	18	24	16	22.3
175	120	191	250	242	125	45	350	70	410	18	24	16	22.3
160	110	178	235	218	112	40	320	60	380	18	24	16	17.6
160	110	178	235	218	112	40	320	60	380	18	24	16	17.6
185	120	199	260	271	140	45	350	70	410	18	24	16	26.5
185	120	199	260	271	140	45	350	70	410	18	24	16	26.5
175	120	191	250	242	125	45	350	70	410	18	24	16	22.3
175	120	191	250	242	125	45	350	70	410	18	24	16	22.3
185	120	199	260	271	140	45	350	70	410	18	24	16	26.5
185	120	199	260	271	140	45	350	70	410	18	24	16	26.5
190	130	208	265	290	150	50	380	70	445	22	28	20	34.0
190	130	208	265	290	150	50	380	70	445	22	28	20	34.0
205	150	223	285	302	150	50	420	80	500	26	32	24	39.0
205	150	223	285	302	150	50	420	80	500	26	32	24	39.0
220	160	241	295	323	160	60	450	90	530	26	32	24	48.0
220	160	241	295	323	160	60	450	90	530	26	32	24	48.0
235	160	254	315	344	170	60	470	90	550	26	32	24	54.5
235	160	254	315	344	170	60	470	90	550	26	32	24	54.5

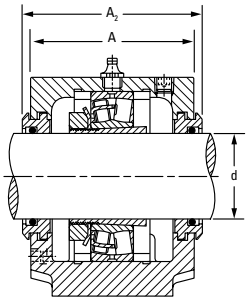
FOUR-BOLT FSNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS – 500/600 SERIES



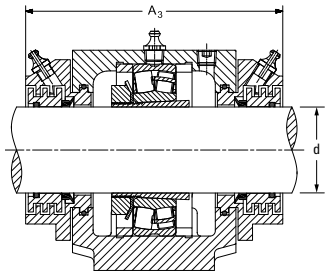
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

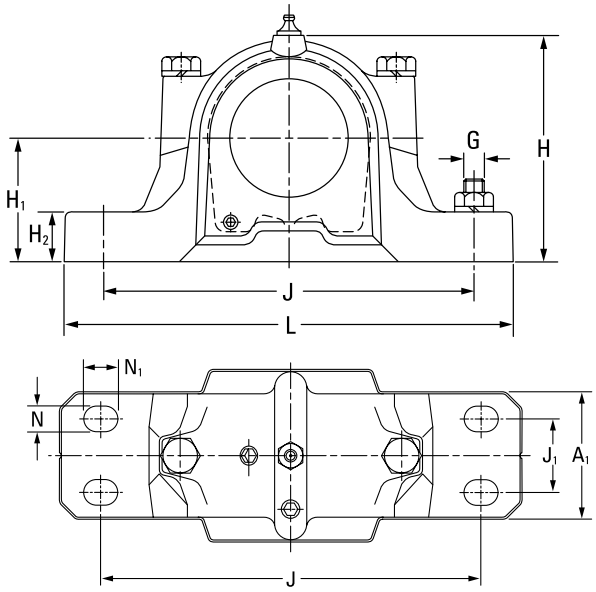


Taconite Seal

- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Assemblies shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., FSNTD 511-609).

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
1 7/16	FSNT 511-609 FSNT 511-609	21309K 22309K	SR100X9.5 SR100X4	HA309 HA2309	– –	– –	LO609/ 1-7/16 LO609/ 1-7/16	TA609/ 1-7/16 TA609/ 1-7/16	EC511-609 EC511-609
1 1/2	FSNT 511-609 FSNT 511-609	21309K 22309K	SR100X9.5 SR100X4	HE309 HE2309	– –	– –	LO609/ 1-1/2 LO609/ 1-1/2	TA609/ 1-1/2 TA609/ 1-1/2	EC511-609 EC511-609
1 11/16	FSNT 512-610 FSNT 512-610	21310K 22310K	SR110X10.5 SR110X4	HA310 HA2310	– –	VR610 VR610	LO610/ 1-11/16 LO610/ 1-11/16	TA610/ 1-11/16 TA610/ 1-11/16	EC512-610 EC512-610
1 3/4	FSNT 512-610 FSNT 512-610	21310K 22310K	SR110X10.5 SR110X4	HE310 HE2310	TSNG610 TSNG610	VR610 VR610	LO610/ 1-3/4 LO610/ 1-3/4	TA610/ 1-3/4 TA610/ 1-3/4	EC512-610 EC512-610
1 15/16	FSNT 511-609 FSNT 513-611 FSNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	HA311 HA311 HA2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511/ 1-15/16 LO611/ 1-15/16 LO611/ 1-15/16	TA511/ 1-15/16 TA611/ 1-15/16 TA611/ 1-15/16	EC511-609 EC513-611 EC513-611
2	FSNT 511-609 FSNT 513-611 FSNT 513-611	22211K 21311K 22311K	SR100X9.5 SR120X11 SR120X4	HE311 HE311 HE2311	TSNG511 TSNG611 TSNG611	VR511 VR611 VR611	LO511/ 2 LO611/ 2 LO611/ 2	TA511/ 2 TA611/ 2 TA611/ 2	EC511-609 EC513-611 EC513-611
2 1/4	FSNT 513-611 FSNT 516-613 FSNT 516-613	22213K 21313K 22313K	SR120X10 SR140X12.5 SR140X5	HE313 HE313 HE2313	- - -	VR513 VR613 VR613	LO513/ 2-1/4 LO613/ 2-1/4 LO613/ 2-1/4	TA513/ 2-1/4 TA613/ 2-1/4 TA613/ 2-1/4	EC513-611 EC516-613 EC516-613
2 7/16	FSNT 515-612 FSNT 518-615 FSNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	HA315 HA315 HA2315	- - -	- - -	LO515/ 2-7/16 LO615/ 2-7/16 LO615/ 2-7/16	TA515/ 2-7/16 TA615/ 2-7/16 TA615/ 2-7/16	EC515-612 EC518-615 EC518-615
2 1/2	FSNT 515-612 FSNT 518-615 FSNT 518-615	22215K 21315K 22315K	SR130X12.5 SR160X14 SR160X5	HE315 HE315 HE2315	- - -	VR515 VR615 VR615	LO515/ 2-1/2 LO615/ 2-1/2 LO615/ 2-1/2	TA515/ 2-1/2 TA615/ 2-1/2 TA615/ 2-1/2	EC515-612 EC518-615 EC518-615

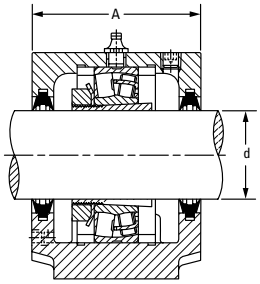
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



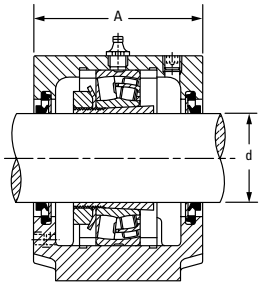
Housing Dimensions														4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	kg
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
105	70	117	157	134	70	30	205	210	215	35	255	15	20	12	5.3
105	70	117	157	134	70	30	205	210	215	35	255	15	20	12	5.3
105	70	117	157	134	70	30	205	210	215	35	255	15	20	12	5.3
105	70	117	157	134	70	30	205	210	215	35	255	15	20	12	5.3
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
110	80	122	162	150	80	30	224	230	236	40	275	15	20	12	6.6
110	80	122	162	150	80	30	224	230	236	40	275	15	20	12	6.6
95	70	107	147	128	70	28	205	210	215	35	255	15	20	12	4.5
110	80	122	162	150	80	30	224	230	236	40	275	15	20	12	6.6
110	80	122	162	150	80	30	224	230	236	40	275	15	20	12	6.6
110	80	122	162	150	80	30	224	230	236	40	275	15	20	12	6.6
120	90	138	176	177	95	32	252	260	268	50	315	18	24	16	9.7
120	90	138	176	177	95	32	252	260	268	50	315	18	24	16	9.7
115	80	127	167	156	80	30	222	230	238	40	280	15	20	12	6.9
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1
115	80	127	167	156	80	30	222	230	238	40	280	15	20	12	6.9
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1

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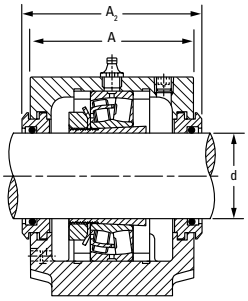
FOUR-BOLT FSNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS – 500/600 SERIES



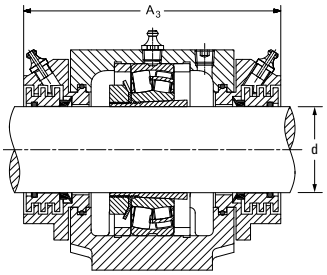
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

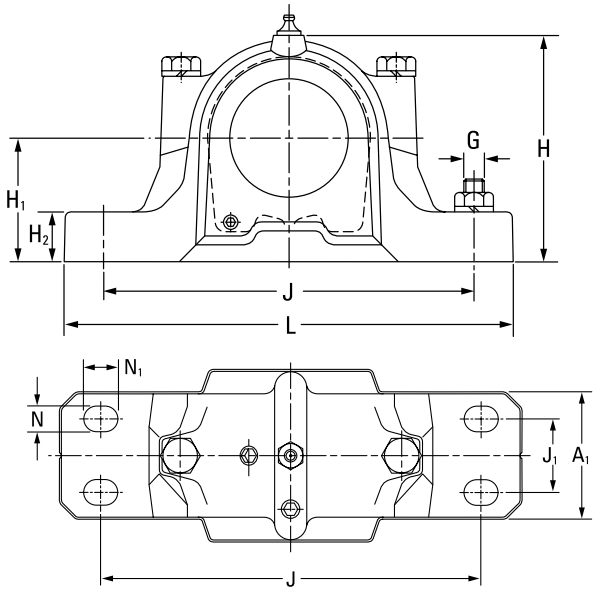


Taconite Seal

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Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
2 11/16	FSNT 516-613 FSNT 519-616 FSNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	HA316 HA316 HA2316	- - -	VR516 VR616 VR616	LO516/ 2-11/16 LO616/ 2-11/16 LO616/ 2-11/16	TA516/ 2-11/16 TA616/ 2-11/16 TA616/ 2-11/16	EC516-613 EC519-616 EC519-616
2 3/4	FSNT 516-613 FSNT 519-616 FSNT 519-616	22216K 21316K 22316K	SR140X12.5 SR170X14.5 SR170X5	HE316 HE316 HE2316	TSNG516 TSNG616 TSNG616	VR516 VR616 VR616	LO516/ 2-3/4 LO616/ 2-3/4 LO616/ 2-3/4	TA516/ 2-3/4 TA616/ 2-3/4 TA616/ 2-3/4	EC516-613 EC519-616 EC519-616
2 15/16	FSNT 517 FSNT 520-617 FSNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	HA317 HA317 HA2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517/ 2-15/16 LO617/ 2-15/16 LO617/ 2-15/16	TA517/ 2-15/16 TA617/ 2-15/16 TA617/ 2-15/16	EC517 EC520-617 EC520-617
3	FSNT 517 FSNT 520-617 FSNT 520-617	22217K 21317K 22317K	SR150X12.5 SR180X14.5 SR180X5	HE317 H317 HE2317	TSNG517 TSNG617 TSNG617	VR517 VR617 VR617	LO517/ 3 LO617/ 3 LO617/ 3	TA517/ 3 TA617/ 3 TA617/ 3	EC517 EC520-617 EC520-617
3 3/16	FSNT 518-615 FSNT 518-615	22218K 23218K	SR160X12.5 SR160X6.25	HA318 HA2318	TSNG518 TSNG518	VR518 VR518	LO518/ 3-3/16 LO518/ 3-3/16	TA518/ 3-3/16 TA518/ 3-3/16	EC518-615 EC518-615
3 1/4	FSNT 518-615 FSNT 518-615 FSNT 522-619 FSNT 522-619	22218K 23218K 21319K 22319K	SR160X12.5 SR160X6.25 SR200X17.5 SR200X6.5	HE318 HE2318 HE319 HE2319	TSNG518 TSNG518 TSNG619 TSNG619	VR518 VR518 VR619 VR619	LO518/ 3-1/4 LO518/ 3-1/4 LO619/ 3-1/4 LO619/ 3-1/4	TA518/ 3-1/4 TA518/ 3-1/4 TA619/ 3-1/4 TA619/ 3-1/4	EC518-615 EC518-615 EC522-619 EC522-619
3 7/16	FSNT 520-617 FSNT 520-617 FSNT 524-620 FSNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	HA320 HA2320 HA2320 HA2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520/ 3-7/16 LO520/ 3-7/16 LO620/ 3-7/16 LO620/ 3-7/16	TA520/ 3-7/16 TA520/ 3-7/16 TA620/ 3-7/16 TA620/ 3-7/16	EC520-617 EC520-617 EC524-620 EC524-620
3 1/2	FSNT 520-617 FSNT 520-617 FSNT 524-620 FSNT 524-620	22220K 23220K 21320K 22320K	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	HE320 HE2320 HE2320 HE2320	TSNG520 TSNG520 TSNG620 TSNG620	VR520 VR520 VR620 VR620	LO520/ 3-1/2 LO520/ 3-1/2 LO620/ 3-1/2 LO620/ 3-1/2	TA520/ 3-1/2 TA520/ 3-1/2 TA620/ 3-1/2 TA620/ 3-1/2	EC520-617 EC520-617 EC524-620 EC524-620

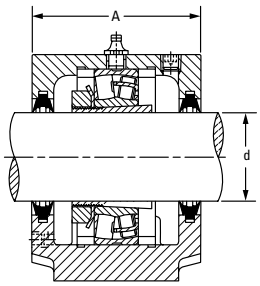
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



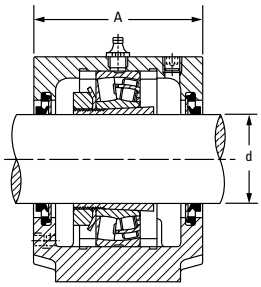
Housing Dimensions														4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	kg
120	90	138	176	177	95	32	252	260	268	50	315	18	24	16	9.7
145	100	163	201	212	112	35	285	290	295	50	345	18	24	16	14
145	100	163	201	212	112	35	285	290	295	50	345	18	24	16	14
120	90	138	176	177	95	32	252	260	268	50	315	18	24	16	9.7
145	100	163	201	212	112	35	285	290	295	50	345	18	24	16	14
145	100	163	201	212	112	35	285	290	295	50	345	18	24	16	14
125	90	143	181	183	95	32	252	260	268	50	320	18	24	16	10.4
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
125	90	143	181	183	95	32	252	260	268	50	320	18	24	16	10.4
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1
140	100	158	198	194	100	35	285	290	295	50	345	18	24	16	13.1
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175	120	191	231	242	125	45	344	350	356	70	410	18	24	16	22.3
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185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
160	110	178	216	218	112	40	314	320	326	60	380	18	24	16	17.6
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5

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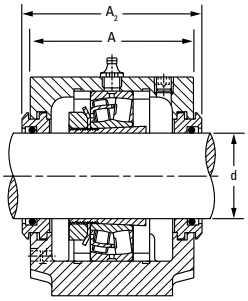
FOUR-BOLT FSNT HOUSINGS FOR TAPERED BORE BEARINGS FOR INCH SHAFTS – 500/600 SERIES



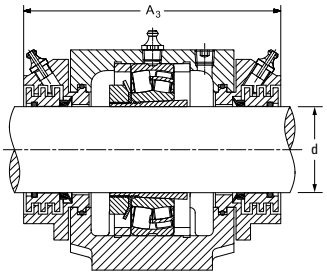
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

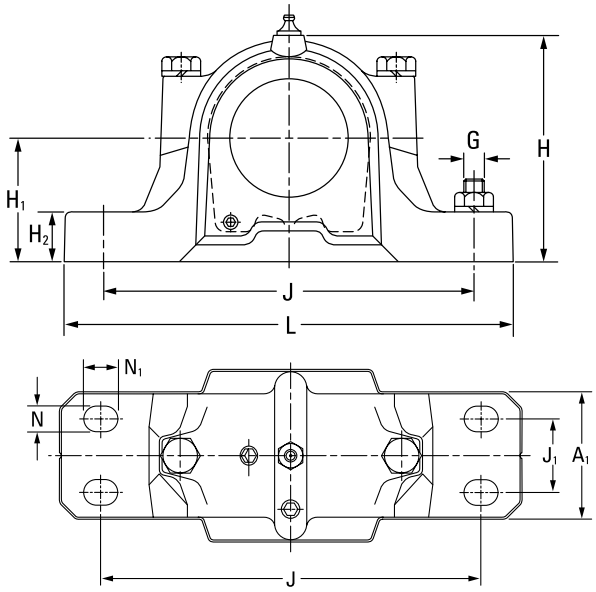


Taconite Seal

Continued from previous page.

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
in.									
3 15/16	FSNT 522-619 FSNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	H322 H2322	TSNG522 TSNG522	VR522 VR522	LO522/ 3-15/16 LO522/ 3-15/16	TA522/ 3-15/16 TA522/ 3-15/16	EC522-619 EC522-619
4	FSNT 522-619 FSNT 522-619	22222K 23222K	SR200X13.5 SR200X5.1	HE322 HE2322	TSNG522 TSNG522	VR522 VR522	LO522/ 4 LO522/ 4	TA522/ 4 TA522/ 4	EC522-619 EC522-619
4 3/16	FSNT 524-620 FSNT 524-620	22224K 23224K	SR215X14 SR215X5	HA3124 HA2324	- -	VR524 VR524	LO524/ 4-3/16 LO524/ 4-3/16	TA524/ 4-3/16 TA524/ 4-3/16	EC524-620 EC524-620
4 1/4	FSNT 524-620 FSNT 524-620	22224K 23224K	SR215X14 SR215X5	HE3124 HE2324	- -	VR524 VR524	LO524/ 4-1/4 LO524/ 4-1/4	TA524/ 4-1/4 TA524/ 4-1/4	EC524-620 EC524-620
4 7/16	FSNT 526 FSNT 526	22226K 23226K	SR230X13 SR230X5	HA3126 HA2326	TSNG526 TSNG526	VR526 VR526	LO526/ 4-7/16 LO526/ 4-7/16	TA526/ 4-7/16 TA526/ 4-7/16	EC526 EC526
4 1/2	FSNT 526 FSNT 526	22226K 23226K	SR230X13 SR230X5	HA3126 HA2326	TSNG526 TSNG526	VR526 VR526	LO526/ 4-1/2 LO526/ 4-1/2	TA526/ 4-1/2 TA526/ 4-1/2	EC526 EC526
4 15/16	FSNT 528 FSNT 528	22228K 23228K	SR250X15 SR250X5	HA3128 HA2328	TSNG528 TSNG528	VR528 VR528	LO528/ 4-15/16 LO528/ 4-15/16	TA528/ 4-15/16 TA528/ 4-15/16	EC528 EC528
5	FSNT 528 FSNT 528	22228K 23228K	SR250X15 SR250X5	HE3128 HE2328	TSNG528 TSNG528	VR528 VR528	LO528/ 5 LO528/ 5	TA528/ 5 TA528/ 5	EC528 EC528
5 3/16	FSNT 530 FSNT 530	22230K 23230K	SR270X16.5 SR270X5	HA3130 HA2330	TSNG530 TSNG530	VR530 VR530	LO530/ 5-3/16 LO530/ 5-3/16	TA530/ 5-3/16 TA530/ 5-3/16	EC530 EC530
5 1/4	FSNT 530 FSNT 530	22230K 23230K	SR270X16.5 SR270X5	HE3130 HE2330	TSNG530 TSNG530	VR530 VR530	LO530/ 5-1/4 LO530/ 5-1/4	TA530/ 5-1/4 TA530/ 5-1/4	EC530 EC530
5 7/16	FSNT 532 FSNT 532	22232K 23232K	SR290X17 SR290X5	HA3132 HA2332	TSNG532 TSNG532	VR532 VR532	LO532/ 5-7/16 LO532/ 5-7/16	TA532/ 5-7/16 TA532/ 5-7/16	EC532 EC532
5 1/2	FSNT 532 FSNT 532	22232K 23232K	SR290X17 SR290X5	HE3132 HE2332	TSNG532 TSNG532	VR532 VR532	LO532/ 5-1/2 LO532/ 5-1/2	TA532/ 5-1/2 TA532/ 5-1/2	EC532 EC532

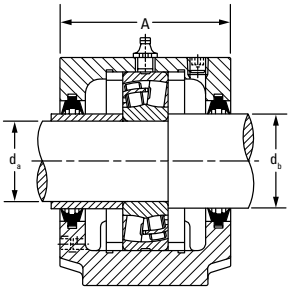
[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.



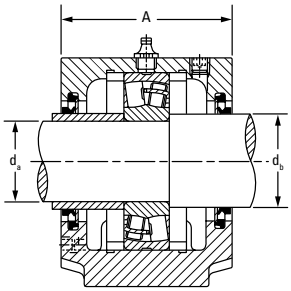
Housing Dimensions														4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J_{min}	J	J_{max}	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		mm	kg
175	120	191	231	242	125	45	344	350	356	70	410	18	24	16	22.3
175	120	191	231	242	125	45	344	350	356	70	410	18	24	16	22.3
175	120	191	231	242	125	45	344	350	356	70	410	18	24	16	22.3
175	120	191	231	242	125	45	344	350	356	70	410	18	24	16	22.3
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
185	120	199	241	271	140	45	344	350	356	70	410	18	24	16	26.5
190	130	208	248	290	150	50	373	380	387	70	445	22	28	20	34
190	130	208	248	290	150	50	373	380	387	70	445	22	28	20	34
190	130	208	248	290	150	50	373	380	387	70	445	22	28	20	34
190	130	208	248	290	150	50	373	380	387	70	445	22	28	20	34
205	150	223	263	302	150	50	413	420	427	80	500	26	32	24	39
205	150	223	263	302	150	50	413	420	427	80	500	26	32	24	39
205	150	223	263	302	150	50	413	420	427	80	500	26	32	24	39
205	150	223	263	302	150	50	413	420	427	80	500	26	32	24	39
220	160	241	276	323	160	60	443	450	457	90	530	26	32	24	48
220	160	241	276	323	160	60	443	450	457	90	530	26	32	24	48
220	160	241	276	323	160	60	443	450	457	90	530	26	32	24	48
220	160	241	276	323	160	60	443	450	457	90	530	26	32	24	48
235	160	254	291	344	170	60	463	470	477	90	550	26	32	24	54.5
235	160	254	291	344	170	60	463	470	477	90	550	26	32	24	54.5
235	160	254	291	344	170	60	463	470	477	90	550	26	32	24	54.5
235	160	254	291	344	170	60	463	470	477	90	550	26	32	24	54.5

TWO-BOLT SNT HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 200/300 SERIES

- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Assemblies shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., SNTD 205).
- Seal sleeve for da shaft to be supplied by customer and should have same O.D. as d_b.



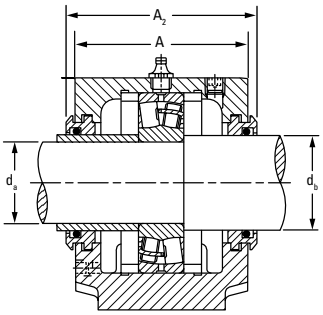
Double-Lip Seal



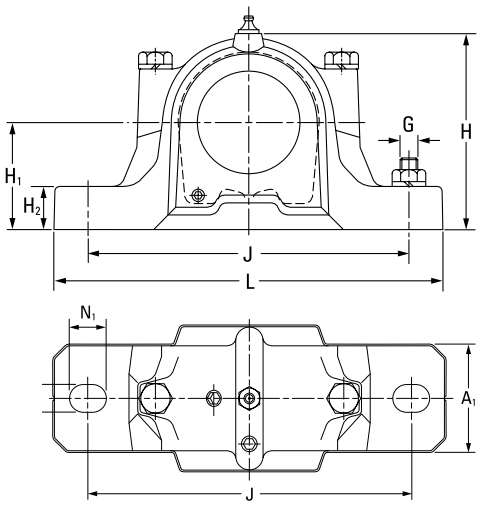
V-Ring Seal

Shaft Dia.		Housing	Bearing	Locating Rings[1] O.D. x Width	Double-Lip Seal[2]	V-Ring Seal[2]	Labyrinth Seal[3]	End Cover[3]
d_a	d_b							
mm	mm							
25	30	SNT 205 SNT 206-305	22205 21305	SR52X3.5 SR62X7.5	TSNG205 TSNG507-305	– VR305	LO205 LO305	EC506-605 EC507-606
30	35	SNT 206-305 SNT 507-606	22206 21306	SR62X6 SR72X7.5	TSNG306-206 TSNG306-206	VR206 VR306	LO206 LO306	EC507-606 EC507-606
35	45	SNT 207 SNT 208-307	22207 21307	SR72X5.5 SR80X9	TSNG207 TSNG510-307	VR207 VR307	LO207 LO307	EC509 EC510-608
40	50	SNT 208-307 SNT 510-608 SNT 510-608	22208 21308 22308	SR80X8 SR90X9 SR90X4	TSNG308-208 TSNG308-208 TSNG308-208	VR208 VR308 VR308	LO208 LO308 LO308	EC510-608 EC510-608 EC510-608
45	55	SNT 209 SNT 511-609 SNT 511-609	22209 21309 22309	SR85X3.5 SR100X9.5 SR100X4	TSNG309-209 TSNG309-209 TSNG309-209	VR209 VR309 VR309	LO209 LO309 LO309	EC511-609 EC511-609 EC511-609
50	60	SNT 210 SNT 512-610 SNT 512-610	22210 21310 22310	SR90X9 SR110X10.5 SR110X4	TSNG310-210 TSNG310-210 TSNG310-210	VR210 VR310 VR310	LO210 LO310 LO310	EC512-610 EC512-610 EC512-610
55	65	SNT 211 SNT 513-611 SNT 513-611	22211 21311 22311	SR100X9.5 SR120X11 SR120X4	TSNG311-211 TSNG311-211 TSNG311-211	VR211 VR311 VR311	LO211 LO311 LO311	EC513-611 EC513-611 EC513-611
60	70	SNT 212 SNT 515-612 SNT 515-612	22212 21312 22312	SR110X10 SR130X12.5 SR130X5	TSNG312-212 TSNG312-212 TSNG312-212	VR212 VR312 VR312	LO212 LO312 LO312	EC515-612 EC515-612 EC515-612
65	75	SNT 213 SNT 516-613 SNT 516-613	22213 21313 22313	SR120X10 SR140X12.5 SR140X5	TSNG313-213 TSNG313-213 TSNG313-213	VR213 VR313 VR313	LO213 LO313 LO313	EC516-613 EC516-613 EC516-613
70	80	SNT 517 SNT 517	22314 21314	SR150X5 SR150X13	TSNG314 TSNG314	VR314 VR314	LO314 LO314	EC517 EC517
75	85	SNT 215 SNT 518-615 SNT 518-615	22215 21315 22315	SR130X12.5 SR160X14 SR160X5	TSNG315-215 TSNG315-215 TSNG315-215	VR215 VR315 VR315	LO215 LO315 LO315	EC518-615 EC518-615 EC518-615

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Double-lip and V-ring seals sold two seals per box.
[3]Labyrinth seal and end cover sold one per box.



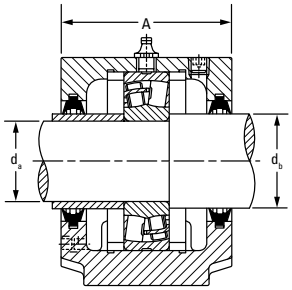
Labyrinth Seal



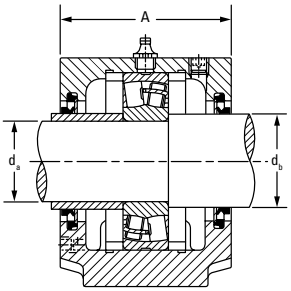
Housing Dimensions										2 Bolts Req'd	Housing Mass
A	A_1	A_2	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
67	46	90	74	40	19	130	165	15	20	12	1.5
77	52	89	89	50	22	150	185	15	20	12	2.0
77	52	89	89	50	22	150	185	15	20	12	2.0
82	52	94	93	50	22	150	185	15	20	12	2.2
82	52	96	93	50	22	150	185	15	20	12	2.2
85	60	99	108	60	25	170	205	15	20	12	2.9
85	60	99	108	60	25	170	205	15	20	12	2.9
90	60	102	113	60	25	170	205	15	20	12	3.2
90	60	102	113	60	25	170	205	15	20	12	3.2
85	60	97	109	60	25	170	205	15	20	12	2.9
95	70	107	128	70	28	210	255	18	24	16	4.5
95	70	107	128	70	28	210	255	18	24	16	4.5
90	60	102	113	60	25	170	205	15	20	12	3.2
105	70	117	134	70	30	210	255	18	24	16	5.3
105	70	117	134	70	30	210	255	18	24	16	5.3
95	70	107	128	70	28	210	255	18	24	16	4.5
110	80	122	150	80	30	230	275	18	24	16	6.6
110	80	122	150	80	30	230	275	18	24	16	6.6
105	70	117	134	70	30	210	255	18	24	16	5.2
115	80	127	156	80	30	230	280	18	24	16	6.9
115	80	127	156	80	30	230	280	18	24	16	6.9
110	80	128	150	80	30	230	275	18	24	16	6.6
120	90	138	177	95	32	260	315	22	28	20	9.7
120	90	138	177	95	32	260	315	22	28	20	9.7
125	90	143	183	95	32	260	320	22	28	20	10.4
125	90	143	183	95	32	260	320	22	28	20	10.4
115	80	133	155	80	30	230	280	18	24	16	6.9
140	100	158	194	100	35	290	345	22	28	20	13.1
140	100	158	194	100	35	290	345	22	28	20	13.1

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TWO-BOLT SNT HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 200/300 SERIES



Double-Lip Seal

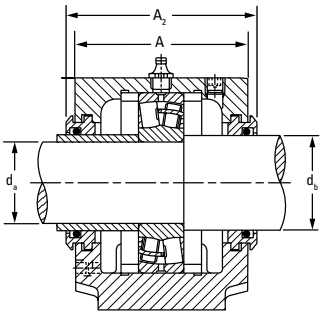


V-Ring Seal

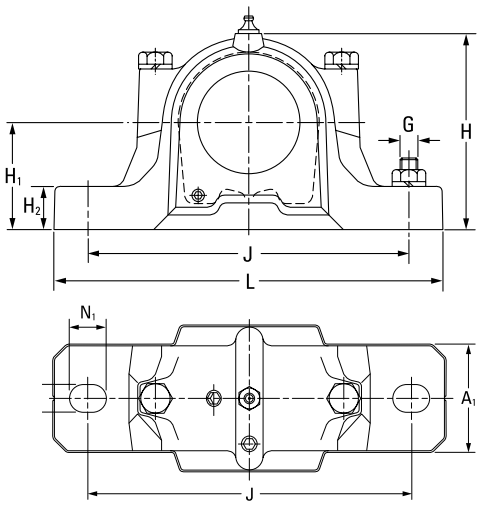
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Shaft Dia.		Housing	Bearing	Locating Rings[1] O.D. x Width	Double-Lip Seal[2]	V-Ring Seal[2]	Labyrinth Seal[3]	End Cover[3]
d_a	d_b							
mm	**mm**							
80	**90**	SNT 216 SNT 519-616 SNT 519-616	22216 21316 22316	SR140X12.5 SR170X14.5 SR170X5	TSNG216 TSNG316 TSNG316	VR216 VR316 VR316	LO216 LO316 LO316	EC216 EC519-616 EC519-616
85	**95**	SNT 217 SNT 520-617 SNT 520-617	22217 21317 22317	SR150X12.5 SR180X14.5 SR180X5	TSNG217 TSNG317 TSNG317	VR217 VR317 VR317	LO217 LO317 LO317	EC217 EC520-617 EC520-617
90	**100**	SNT 218 SNT 218	22218 23218	SR160X12.5 SR160X6.25	TSNG218 TSNG218	VR218 VR218	LO218 LO218	EC218 EC218
95	**110**	SNT 522-619 SNT 522-619	21319 22319	SR200X17.5 SR200X6.5	TSNG319 TSNG319	VR319 VR319	LO319 LO319	EC522-619 EC522-619
100	**115**	SNT 520-617 SNT 520-617 SNT 524-620 SNT 524-620	22220 23220 21320 22320	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	TSNG220 TSNG220 TSNG320 TSNG320	VR220 VR220 VR320 VR320	LO220 LO220 LO320 LO320	EC520-617 EC520-617 EC524-620 EC524-620
110	**125**	SNT 522-619 SNT 522-619	22222 23222	SR200X13.5 SR200X5.1	TSNG222 TSNG222	VR222 VR222	LO222 LO222	EC522-619 EC522-619
120	**135**	SNT 524-620 SNT 524-620	22224 23224	SR215X14 SR215X5	TSNG224 TSNG224	VR224 VR224	LO224 LO224	EC524-620 EC524-620
130	**145**	SNT 526 SNT 526	22226 23226	SR230X13 SR230X5	TSNG226 TSNG226	VR226 VR226	LO226 LO226	EC526 EC526
140	**155**	SNT 528 SNT 528	22228 23228	SR250X15 SR250X5	TSNG228 TSNG228	VR228 VR228	LO228 LO228	EC528 EC528
150	**165**	SNT 530 SNT 530	22230 23230	SR270X16.5 SR270X5	TSNG230 TSNG230	VR230 VR230	LO230 LO230	EC530 EC530
160	**175**	SNT 532 SNT 532	22232 23232	SR290X17 SR290X5	TSNG232 TSNG232	VR232 VR232	LO232 LO232	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Double-lip and V-ring seals sold two seals per box.
[3]Labyrinth seal and end cover sold one per box.



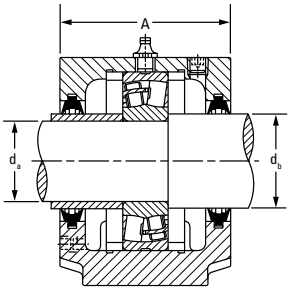
Labyrinth Seal



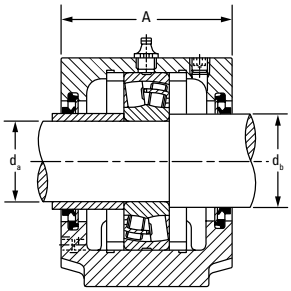
Housing Dimensions										2 Bolts Req'd	Housing Mass
A	A_1	A_2	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
120	90	138	177	95	32	260	315	22	28	20	9.7
145	100	163	212	112	35	290	345	22	28	20	14.0
145	100	163	212	112	35	290	345	22	28	20	14.0
125	90	143	183	95	32	260	320	22	28	20	10.4
160	110	178	218	112	40	320	380	26	32	24	17.6
160	110	178	218	112	40	320	380	26	32	24	17.6
140	100	158	194	100	35	290	345	22	28	20	13.1
140	100	158	194	100	35	290	345	22	28	20	13.1
175	120	191	242	125	45	350	410	26	32	24	22.3
175	120	191	242	125	45	350	410	26	32	24	22.3
160	110	178	218	112	40	320	380	26	32	24	17.6
160	110	178	218	112	40	320	380	26	32	24	17.6
185	120	199	271	140	45	350	410	26	32	24	26.5
185	120	199	271	140	45	350	410	26	32	24	26.5
175	120	191	242	125	45	350	410	26	32	24	22.3
175	120	191	242	125	45	350	410	26	32	24	22.3
185	120	199	271	140	45	350	410	26	32	24	26.5
185	120	199	271	140	45	350	410	26	32	24	26.5
190	130	208	290	150	50	380	445	28	35	24	34.0
190	130	208	290	150	50	380	445	28	35	24	34.0
205	150	223	302	150	50	420	500	35	42	30	39.0
205	150	223	302	150	50	420	500	35	42	30	39.0
220	160	241	323	160	60	450	530	35	42	30	48.0
220	160	241	323	160	60	450	530	35	42	30	48.0
235	160	254	344	170	60	470	550	35	42	30	54.5
235	160	254	344	170	60	470	550	35	42	30	54.5

FOUR-BOLT FSNT HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 200/300 SERIES

- The part numbers for ordering split plummer block housings and components are listed in the table below.
- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ⅛ BSPT thread size for all housings up to 520-617. Housings 522-619 and larger use ¼ BSPT thread size.
- Assemblies shown are furnished in cast iron. If ductile iron is desired, add the letter D to the alpha prefix (e.g., FSNTD 511-609).
- Seal sleeve for da shaft to be supplied by customer and should have same O.D. as d_b.



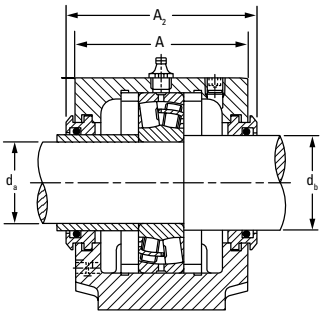
Double-Lip Seal



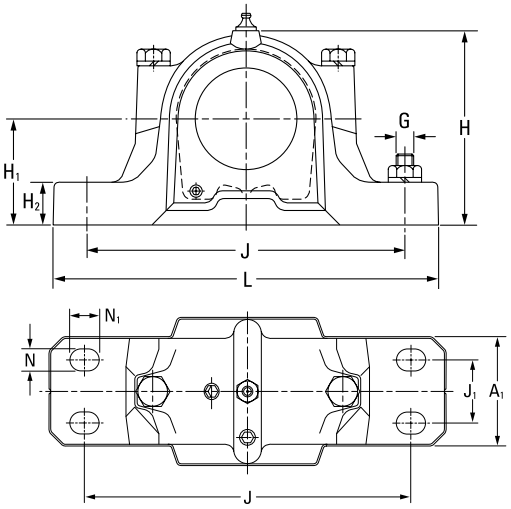
V-Ring Seal

Shaft Dia.		Housing	Bearing	Locating Rings[1] O.D. x Width	Double-Lip Seal[2]	V-Ring Seal[2]	Labyrinth Seal[3]	End Cover[3]
d_a	d_b							
mm	mm							
45	55	FSNT 511-609 FSNT 511-609	21309 22309	SR100X9.5 SR100X4	TSNG309-209 TSNG309-209	VR309 VR309	LO309 LO309	EC511-609 EC511-609
50	60	FSNT 512-610 FSNT 512-610	21310 22310	SR110X10.5 SR110X4	TSNG310-210 TSNG310-210	VR310 VR310	LO310 LO310	EC512-610 EC512-610
55	65	FSNT 211 FSNT 513-611 FSNT 513-611	22211 21311 22311	SR100X9.5 SR120X11 SR120X4	TSNG311-211 TSNG311-211 TSNG311-211	VR211 VR311 VR311	LO211 LO311 LO311	EC513-611 EC513-611 EC513-611
60	70	FSNT 212 FSNT 515-612 FSNT 515-612	22212 21312 22312	SR110X10 SR130X12.5 SR130X5	TSNG312-212 TSNG312-212 TSNG312-212	VR212 VR312 VR312	LO212 LO312 LO312	EC515-612 EC515-612 EC515-612
65	75	FSNT 213 FSNT 516-613 FSNT 516-613	22213 21313 22313	SR120X10 SR140X12.5 SR140X5	TSNG313-213 TSNG313-213 TSNG313-213	VR213 VR313 VR313	LO213 LO313 LO313	EC516-613 EC516-613 EC516-613
70	80	FSNT 517 FSNT 517	22314 21314	SR150X5 SR150X13	TSNG314 TSNG314	VR314 VR314	LO314 LO314	EC517 EC517
75	85	FSNT 215 FSNT 518-615 FSNT 518-615	22215 21315 22315	SR130X12.5 SR160X14 SR160X5	TSNG315-215 TSNG315-215 TSNG315-215	VR215 VR315 VR315	LO215 LO315 LO315	EC518-615 EC518-615 EC518-615
80	90	FSNT 216 FSNT 519-616 FSNT 519-616	22216 21316 22316	SR140X12.5 SR170X14.5 SR170X5	TSNG216 TSNG316 TSNG316	VR216 VR316 VR316	LO216 LO316 LO316	EC216 EC519-616 EC519-616

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Double-lip and V-ring seals sold two seals per box.
[3]Labyrinth seal and end cover sold one per box.



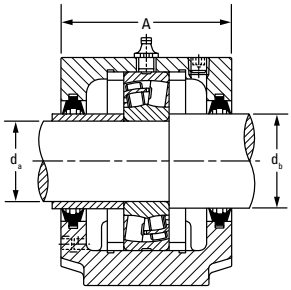
Labyrinth Seal



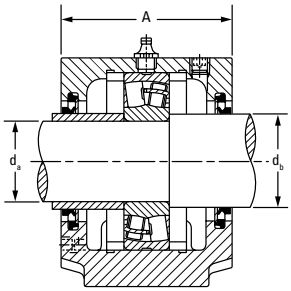
Housing Dimensions											4 Bolts Req'd	Housing Mass
A	A_1	A_2	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
95	70	107	128	70	28	210	35	255	15	20	12	4.5
95	70	107	128	70	28	210	35	255	15	20	12	4.5
105	70	117	134	70	30	210	35	255	15	20	12	5.3
105	70	117	134	70	30	210	35	255	15	20	12	5.3
95	70	107	128	70	28	210	35	255	15	20	12	4.5
110	80	122	150	80	30	230	40	275	15	20	12	6.6
110	80	122	150	80	30	230	40	275	15	20	12	6.6
105	70	117	134	70	30	210	35	255	15	20	12	5.2
115	80	127	156	80	30	230	40	280	15	20	12	6.9
115	80	127	156	80	30	230	40	280	15	20	12	6.9
110	80	128	150	80	30	230	40	275	15	20	12	6.6
120	90	138	177	95	32	260	50	315	18	24	16	9.7
120	90	138	177	95	32	260	50	315	18	24	16	9.7
125	90	143	183	95	32	260	50	320	18	24	16	10.4
125	90	143	183	95	32	260	50	320	18	24	16	10.4
115	80	133	156	80	30	230	40	280	15	20	16	6.9
140	100	158	194	100	35	290	50	345	18	24	16	13.1
140	100	158	194	100	35	290	50	345	18	24	16	13.1
120	90	138	177	95	32	260	50	315	18	24	16	9.7
145	100	163	212	112	35	290	50	345	18	24	16	14.0
145	100	163	212	112	35	290	50	345	18	24	16	14.0

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FOUR-BOLT FSNT HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 200/300 SERIES



Double-Lip Seal

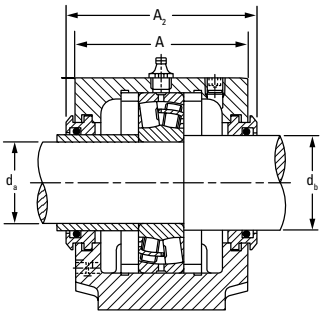


V-Ring Seal

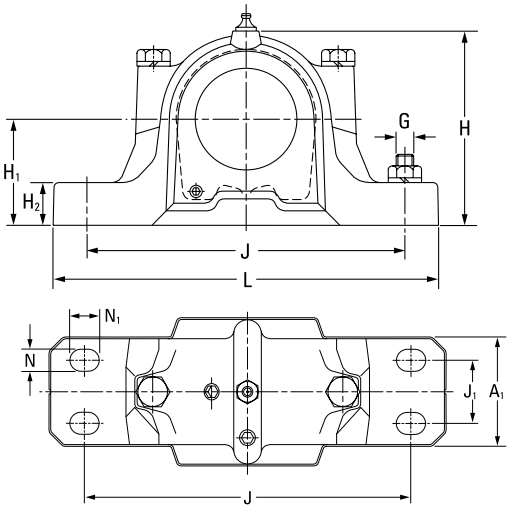
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Shaft Dia.		Housing	Bearing	Locating Rings[1] O.D. x Width	Double-Lip Seal[2]	V-Ring Seal[2]	Labyrinth Seal[3]	End Cover[3]
d_a	d_b							
mm	**mm**							
85	**95**	FSNT 217 FSNT 520-617 FSNT 520-617	22217 21317 22317	SR150X12.5 SR180X14.5 SR180X5	TSNG217 TSNG317 TSNG317	VR217 VR317 VR317	LO217 LO317 LO317	EC217 EC520-617 EC520-617
90	**100**	FSNT 218 FSNT 218	22218 23218	SR160X12.5 SR160X6.25	TSNG218 TSNG218	VR218 VR218	LO218 LO218	EC218 EC218
95	**110**	FSNT 522-619 FSNT 522-619	21319 22319	SR200X17.5 SR200X6.5	TSNG319 TSNG319	VR319 VR319	LO319 LO319	EC522-619 EC522-619
100	**115**	FSNT 520-617 FSNT 520-617 FSNT 524-620 FSNT 524-620	22220 23220 21320 22320	SR180X12 SR180X4.85 SR215X19.5 SR215X6.5	TSNG220 TSNG220 TSNG320 TSNG320	VR220 VR220 VR320 VR320	LO220 LO220 LO320 LO320	EC520-617 EC520-617 EC524-620 EC524-620
110	**125**	FSNT 522-619 FSNT 522-619	22222 23222	SR200X13.5 SR200X5.1	TSNG222 TSNG222	VR222 VR222	LO222 LO222	EC522-619 EC522-619
120	**135**	FSNT 524-620 FSNT 524-620	22224 23224	SR215X14 SR215X5	TSNG224 TSNG224	VR224 VR224	LO224 LO224	EC524-620 EC524-620
130	**145**	FSNT 526 FSNT 526	22226 23226	SR230X13 SR230X5	TSNG226 TSNG226	VR226 VR226	LO226 LO226	EC526 EC526
140	**155**	FSNT 528 FSNT 528	22228 23228	SR250X15 SR250X5	TSNG228 TSNG228	VR228 VR228	LO228 LO228	EC528 EC528
150	**165**	FSNT 530 FSNT 530	22230 23230	SR270X16.5 SR270X5	TSNG230 TSNG230	VR230 VR230	LO230 LO230	EC530 EC530
160	**175**	FSNT 532 FSNT 532	22232 23232	SR290X17 SR290X5	TSNG232 TSNG232	VR232 VR232	LO232 LO232	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Double-lip and V-ring seals sold two seals per box.
[3]Labyrinth seal and end cover sold one per box.



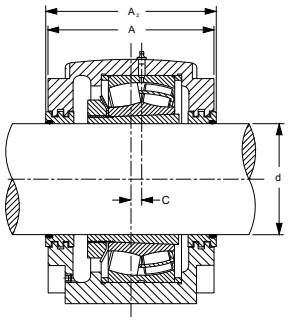
Labyrinth Seal



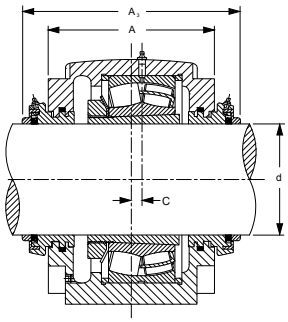
Housing Dimensions											4 Bolts Req'd	Housing Mass
A	A_1	A_2	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
125	90	143	183	95	32	260	50	320	18	24	16	10.4
160	110	178	218	112	40	320	60	380	18	24	16	17.6
160	110	178	218	112	40	320	60	380	18	24	16	17.6
140	100	158	194	100	35	290	50	345	18	24	16	13.1
140	100	158	194	100	35	290	50	345	18	24	16	13.1
175	120	191	242	125	45	350	70	410	18	24	16	22.3
175	120	191	242	125	45	350	70	410	18	24	16	22.3
160	110	178	218	112	40	320	60	380	18	24	16	17.6
160	110	178	218	112	40	320	60	380	18	24	16	17.6
185	120	199	271	140	45	350	70	410	18	24	16	26.5
185	120	199	271	140	45	350	70	410	18	24	16	26.5
175	120	191	242	125	45	350	70	410	18	24	16	22.3
175	120	191	242	125	45	350	70	410	18	24	16	22.3
185	120	199	271	140	45	350	70	410	18	24	16	26.5
185	120	199	271	140	45	350	70	410	18	24	16	26.5
190	130	208	290	150	50	380	70	445	22	28	20	34.0
190	130	208	290	150	50	380	70	445	22	28	20	34.0
205	150	223	302	150	50	420	80	500	26	32	24	39.0
205	150	223	302	150	50	420	80	500	26	32	24	39.0
220	160	241	323	160	60	450	90	530	26	32	24	48.0
220	160	241	323	160	60	450	90	530	26	32	24	48.0
235	160	254	344	170	60	470	90	550	26	32	24	54.5
235	160	254	344	170	60	470	90	550	26	32	24	54.5

FOUR-BOLT SNTD HOUSINGS FOR TAPERED BORE BEARINGS – 3000 AND 3100 SERIES

- Each housing includes the housing cap, housing base and cap bolts.
- SNTD housings are supplied in ductile iron.
- Housings with the F suffix are manufactured for fixed bearings. Those with the L suffix are float position housings.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ¼ BSPT thread size.
- Additional grease fittings are supplied for flexible configurations.



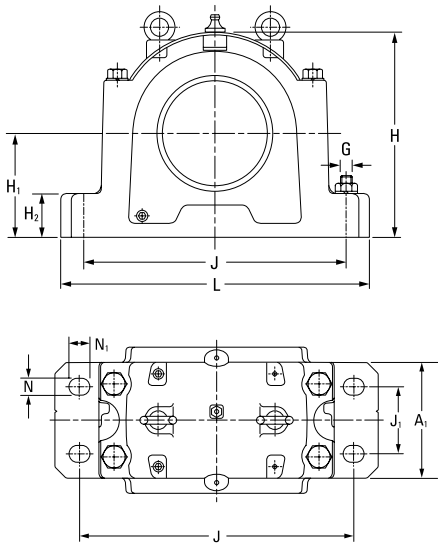
Labyrinth Seal



Taconite Seal

Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Quantity Locating Rings Required for Fixed	Adapter Sleeve[2]	Labyrinth Seal[3]	Taconite Seal[3]	End Cover[3]
mm								
115	SNTD 3134	22326K	SR280X7.5	2	H2326	LO34/115	TA34/115	EC34
125	SNTD 3136	22328K	SR300X7	2	H2328	LO36/125	TA36/125	EC36
135	SNTD 3138	22330K	SR320X8	2	H2330	LO38/135	TA38/135	EC38
140	SNTD 3038 SNTD 3038 SNTD 3140	22232K 23232K 22332K	SR290X17.5 SR290X5.5 SR340X9	2 2 2	H3132 H2332 H2332	LO38/140 LO38/140 LO40/140	TA38/140 TA38/140 TA40/140	EC38 EC38 EC40
150	SNTD 3134 SNTD 3040 SNTD 3048	23134K 22234K 22334K	SR280X10 SR310X18 SR360X10	2 2 2	H3134 H3134 H2334	LO34 LO40/150 LO48/150	TA34 TA40/150 TA48/150	EC34 EC40 EC48
160	SNTD 3036 SNTD 3136 SNTD 3138	23036K 23136K 22236K	SR280X17 SR300X10 SR320X19	2 2 2	H3036 H3136 H3136	LO36 LO36 LO38/160	TA36 TA36 TA38/160	EC36 EC36 EC38
170	SNTD 3038 SNTD 3138 SNTD 3140 SNTD 3148	23038K 23138K 22238K 22338K	SR290X10 SR320X10 SR340X10 SR400X8	4 2 4 2	H3038 H3138 H3138 H2338	LO38 LO38 LO40/170 LO48/170	TA38 TA38 TA40/170 TA48/170	EC38 EC38 EC40 EC48
180	SNTD 3040 SNTD 3140 SNTD 3048 SNTD 3056	23040K 23140K 22240K 22340K	SR310X10 SR340X10 SR360X21 SR420X14	4 2 2 2	H3040 H3140 H3140 H2340	LO40 LO40 LO48/180 LO56/180	TA40 TA40 TA48/180 TA56/180	EC40 EC40 EC48 EC56
200	SNTD 3044 SNTD 3144 SNTD 3148 SNTD 3156	23044K 23144K 22244K 22344K	SR340X10 SR370X10 SR400X10 SR460X10.5	4 2 4 2	OH3044H OH3144H OH3144H OH2344H	LO44 LO44 LO48/200 LO56/200	TA44 TA44 TA48/200 TA56/200	EC44 EC44 EC48 EC56
220	SNTD 3048 SNTD 3148 SNTD 3152 SNTD 3160	23048K 23148K 22248K 22348K	SR360X12 SR400X10 SR440X22 SR500X12.5	4 2 2 2	OH3048H OH3148H OH3148H OH2348H	LO48 LO48 LO52/220 LO60/220	TA48 TA48 TA52/220 TA60/220	EC48 EC48 EC52 EC60

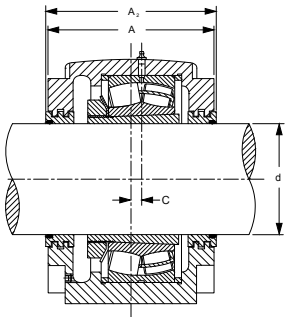
[1]Locating rings = sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Labyrinth, taconite seal and end cover sold one per box.



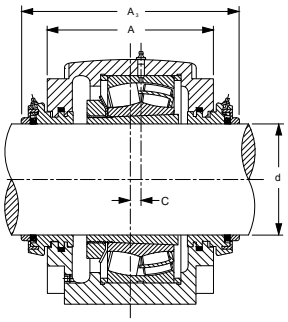
Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
230	180	242.5	299.5	14	333	170	70	430	100	510	28	34	24	75.0
240	190	252.5	314.5	15	353	180	75	450	110	530	28	34	24	92.0
260	210	271.5	333.5	10	375	190	80	480	120	560	28	34	24	112.0
240	190	252	314	15	354	180	75	450	110	530	28	34	24	85.9
240	190	252	314	15	354	180	75	450	110	530	28	34	24	85.9
280	230	291.5	358.5	10	411	210	85	510	130	610	35	42	30	130.0
230	180	242.5	299.5	14	333	170	70	430	100	510	28	34	24	75.0
260	210	271	338	10	375	190	80	480	120	560	28	34	24	102.6
290	240	300	379.5	12	434	220	90	540	140	640	35	42	30	146.5
230	180	242	304	14	333	170	70	430	100	510	28	34	24	68.1
240	190	252.5	314.5	15	353	180	75	450	110	530	28	34	24	92.0
260	210	271.5	333.5	10	375	190	80	480	120	560	28	34	24	112.0
240	190	252	314	15	354	180	75	450	110	530	28	34	24	85.9
260	210	271.5	333.5	10	375	190	80	480	120	560	28	34	24	112.0
280	230	291.5	358.5	10	411	210	85	510	130	610	35	42	30	130.0
310	260	318.5	398	12	474	240	95	600	150	700	35	42	30	193.0
260	210	271	338	10	375	190	80	480	120	560	28	34	24	102.6
280	230	291.5	358.5	10	411	210	85	510	130	610	35	42	30	130.0
290	240	300	379.5	12	434	220	90	540	140	640	35	42	30	146.5
320	280	332.5	412	13	516	260	100	650	160	770	42	50	36	244.9
280	230	291	353	10	411	210	85	510	130	610	35	42	30	123.7
290	240	300.5	362.5	12	434	220	90	540	140	640	35	42	30	140.0
310	260	318.5	398	12	474	240	95	600	150	700	35	42	30	193.0
320	280	332.5	412	16	551	280	105	670	160	790	42	50	36	260.0
290	240	300	379.5	12	434	220	90	540	140	640	35	42	30	146.5
310	260	318.5	398	12	474	240	95	600	150	700	35	42	30	193.0
320	280	332.5	412	13	516	260	100	650	160	770	42	50	36	235.0
350	310	363	442.5	22	591	300	110	710	190	830	42	50	36	310.0

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FOUR-BOLT SNTD HOUSINGS FOR TAPERED BORE BEARINGS – 3000 AND 3100 SERIES



Labyrinth Seal

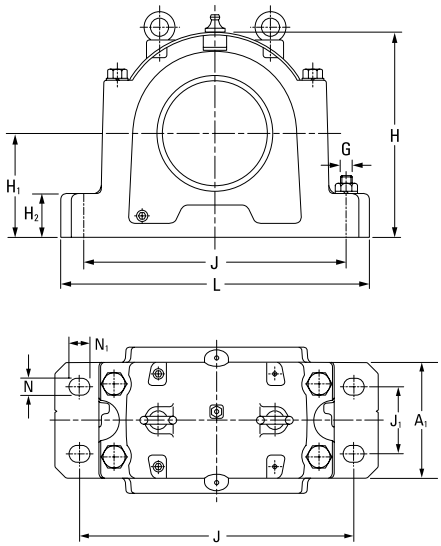


Taconite Seal

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Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Quantity Locating Rings Required for Fixed	Adapter Sleeve[2]	Labyrinth Seal[3]	Taconite Seal[3]	End Cover[3]
mm								
240	SNTD 3052	23052K	SR400X22	2	OH3052H	LO52	TA52	EC52
	SNTD 3152	23152K	SR440X10	2	OH3152H	LO52	TA52	EC52
	SNTD 3064	22252K	SR480X25.5	2	OH3152H	LO64/240	TA64/240	EC64
	SNTD 3164	22352K	SR540X15.5	2	OH2352H	LO64/240	TA64/240	EC64
260	SNTD 3056	23056K	SR420X10	6	OH3056H	LO56	TA56	EC56
	SNTD 3156	23156K	SR460X10	2	OH3156H	LO56	TA56	EC56
	SNTD 3160	22256K	SR500X25	2	OH3156H	LO60/260	TA60/260	EC60
280	SNTD 3060	23060K	SR460X25	2	OH3060H	LO60	TA60	EC60
	SNTD 3160	23160K	SR500X10	2	OH3160H	LO60	TA60	EC60
	SNTD 3164	22260K	SR540X28	2	OH3160H	LO64/280	TA64/280	EC64
300	SNTD 3064	23064K	SR480X10	6	OH3064H	LO64	TA64	EC64
	SNTD 3164	23164K	SR540X10	2	OH3164H	LO64	TA64	EC64
	SNTD 3168F	22264K	SR580X20	2	OH3164H	LO68/300	TA68/300	EC68
320	SNTD 3068	23068K	SR520X16	4	OH3068H	LO68	TA68	EC68
	SNTD 3168F	23168K	FIXED HOUSING	-	OH3168H	LO68	TA68	EC68
	SNTD 3168L	23168K	FLOAT HOUSING	-	OH3168H	LO68	TA68	EC68
340	SNTD 3072	23072K	SR540X16	4	OH3072H	LO72	TA72	EC72
	SNTD 3172F	23172K	FIXED HOUSING	-	OH3172H	LO72	TA72	EC72
	SNTD 3172L	23172K	FLOAT HOUSING	-	OH3172H	LO72	TA72	EC72
	SNTD 3180F	22272K	FIXED HOUSING	-	OH3172H	LO80/340	TA80/340	EC80
	SNTD 3180L	22272K	FLOAT HOUSING	-	OH3172H	LO80/340	TA80/340	EC80
360	SNTD 3076F	23076K	FIXED HOUSING	-	OH3076H	LO76	TA76	EC76
	SNTD 3076L	23076K	FLOAT HOUSING	-	OH3076H	LO76	TA76	EC76
	SNTD 3176F	23176K	FIXED HOUSING	-	OH3176H	LO76	TA76	EC76
	SNTD 3176L	23176K	FLOAT HOUSING	-	OH3176H	LO76	TA76	EC76

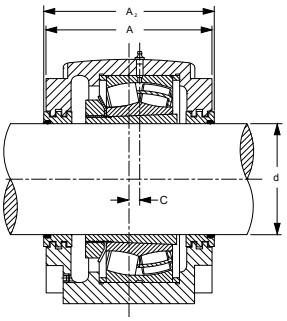
[1]Locating rings = sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Labyrinth, taconite seal and end cover sold one per box.



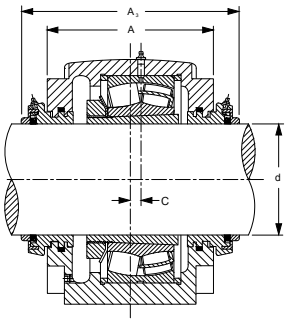
Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
310	260	318.5	398	12	473	240	95	600	150	700	35	42	30	183.6
320	280	332.5	412	13	516	260	100	650	160	770	42	50	36	235.0
350	310	362.5	442	22	590	300	110	710	190	830	42	50	36	330.7
370	330	383	462.5	23	631	320	115	750	200	880	42	50	36	346.0
320	280	332.5	412	13	516	260	100	650	160	770	42	50	36	244.9
320	280	332.5	412	16	551	280	105	670	160	790	42	50	36	260.0
350	310	363	442.5	22	591	300	110	710	190	830	42	50	36	310.0
320	280	332.5	412	16	550	280	105	670	160	790	42	50	36	247.8
350	310	363	442.5	22	591	300	110	710	190	830	42	50	36	310.0
370	330	383	462.5	23	631	320	115	750	200	880	42	50	36	346.0
350	310	362.5	442	22	590	300	110	710	190	830	42	50	36	330.7
370	330	383	462.5	23	631	320	115	750	200	880	42	50	36	346.0
400	360	412	491.5	25	675	340	120	810	220	950	42	50	36	432.5
370	330	382.5	462	23	630	320	115	750	200	880	42	50	36	389.5
400	360	412	491.5	25	675	340	120	810	220	950	42	50	36	432.5
400	360	412	491.5	25	675	340	120	810	220	950	42	50	36	429.5
370	330	381.5	461	23	630	320	115	750	200	880	42	50	36	349.7
400	360	412	491.5	30	695	350	120	840	220	1000	42	50	36	458.0
400	360	412	491.5	30	695	350	120	840	220	1000	42	50	36	454.0
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	595.0
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	595.0
400	360	412	491.5	24	675	340	120	810	220	950	42	50	36	477.4
400	360	412	491.5	24	675	340	120	810	220	950	42	50	36	477.4
400	360	412	491.5	30	715	360	120	870	220	1040	42	50	36	487.0
400	360	412	491.5	30	715	360	120	870	220	1040	42	50	36	484.0

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FOUR-BOLT SNTD HOUSINGS FOR TAPERED BORE BEARINGS – 3000 AND 3100 SERIES



Labyrinth Seal

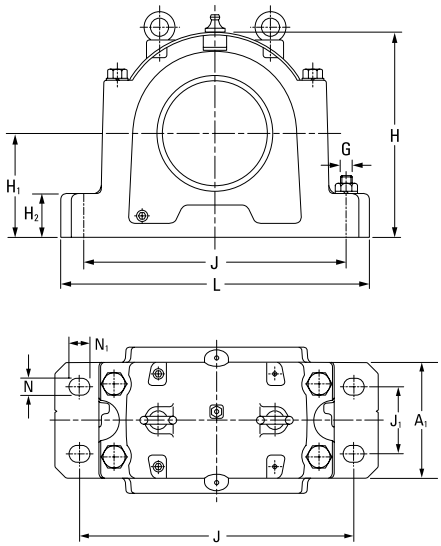


Taconite Seal

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Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Quantity Locating Rings Required for Fixed	Adapter Sleeve[2]	Labyrinth Seal[3]	Taconite Seal[3]	End Cover[3]
mm								
380	SNTD 3080F	23080K	FIXED HOUSING	-	OH3080H	LO80	TA80	EC80
	SNTD 3080L	23080K	FLOAT HOUSING	-	OH3080H	LO80	TA80	EC80
	SNTD 3180F	23180K	FIXED HOUSING	-	OH3180H	LO80	TA80	EC80
	SNTD 3180L	23180K	FLOAT HOUSING	-	OH3180H	LO80	TA80	EC80
400	SNTD 3084F	23084K	FIXED HOUSING	-	OH3084H	LO84	TA84	EC84
	SNTD 3084L	23084K	FLOAT HOUSING	-	OH3084H	LO84	TA84	EC84
	SNTD 3184F	23184K	FIXED HOUSING	-	OH3184H	LO84	TA84	EC84
	SNTD 3184L	23184K	FLOAT HOUSING	-	OH3184H	LO84	TA84	EC84
410	SNTD 3088F	23088K	FIXED HOUSING	-	OH3088H	LO88	TA88	EC88
	SNTD 3088L	23088K	FLOAT HOUSING	-	OH3088H	LO88	TA88	EC88
	SNTD 3188F	23188K	FIXED HOUSING	-	OH3188H	LO88	TA88	EC88
	SNTD 3188L	23188K	FLOAT HOUSING	-	OH3188H	LO88	TA88	EC88
430	SNTD 3092F	23092K	FIXED HOUSING	-	OH3092H	LO92	TA92	EC92
	SNTD 3092L	23092K	FLOAT HOUSING	-	OH3092H	LO92	TA92	EC92
	SNTD 3192F	23192K	FIXED HOUSING	-	OH3192H	LO92	TA92	EC92
	SNTD 3192L	23192K	FLOAT HOUSING	-	OH3192H	LO92	TA92	EC92
450	SNTD 3096F	23096K	FIXED HOUSING	-	OH3096H	LO96	TA96	EC96
	SNTD 3096L	23096K	FLOAT HOUSING	-	OH3096H	LO96	TA96	EC96
	SNTD 3196F	23196K	FIXED HOUSING	-	OH3196H	LO96	TA96	EC96
	SNTD 3196L	23196K	FLOAT HOUSING	-	OH3196H	LO96	TA96	EC96
470	SNTD 30/500F	230/500K	FIXED HOUSING	-	OH30/500H	LO30/500	TA30/500	EC30/500
	SNTD 30/500L	230/500K	FLOAT HOUSING	-	OH30/500H	LO30/500	TA30/500	EC30/500
500	SNTD 30/530F	230/530K	FIXED HOUSING	-	OH30/530H	LO30/530	TA30/530	EC30/530
	SNTD 30/530L	230/530K	FLOAT HOUSING	-	OH30/530H	LO30/530	TA30/530	EC30/530

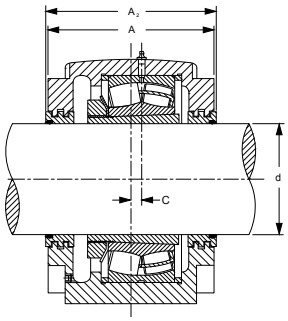
[1]Locating rings = sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Labyrinth, taconite seal and end cover sold one per box.



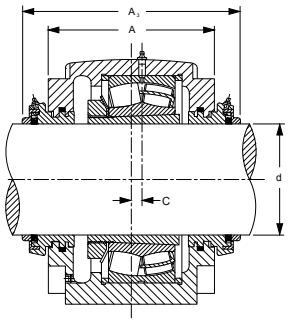
Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	360	412	491.5	30	695	350	120	840	220	1000	42	50	36	457.3
400	360	412	491.5	30	695	350	120	840	220	1000	42	50	36	457.3
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	595.0
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	595.0
400	360	412	491.5	30	755	360	120	870	220	1040	42	50	36	597.8
400	360	412	491.5	30	755	360	120	870	220	1040	42	50	36	597.8
460	420	472	551.5	35	810	410	130	1000	260	1170	48	60	42	709.0
460	420	472	551.5	35	810	410	130	1000	260	1170	48	60	42	709.0
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	671.7
430	390	442	521.5	30	775	380	125	950	240	1120	48	60	42	671.7
460	430	472	551.5	35	835	420	135	1030	260	1220	48	60	42	751.0
460	430	472	551.5	35	835	420	135	1030	260	1220	48	60	42	751.0
460	420	472	551.5	35	810	410	130	1000	260	1170	48	60	42	788.8
460	420	472	551.5	35	810	410	130	1000	260	1170	48	60	42	788.8
470	440	482	561.5	35	880	440	145	1070	260	1280	48	60	42	859.0
470	440	482	561.5	35	880	440	145	1070	260	1280	48	60	42	859.0
460	420	472	553	35	810	410	130	1000	260	1170	48	60	42	699.6
460	420	472	553	35	810	410	130	1000	260	1170	48	60	42	699.6
470	440	482	563	35	920	460	155	1110	260	1330	56	70	48	976.5
470	440	482	563	35	920	460	155	1110	260	1330	56	70	48	976.5
460	430	472	551.5	35	835	420	135	1030	260	1220	48	60	42	805.5
460	430	472	551.5	35	835	420	135	1030	260	1220	48	60	42	805.5
470	440	482	561.5	35	920	460	155	1110	260	1330	56	70	48	976.5
470	440	482	561.5	35	920	460	155	1110	260	1330	56	70	48	976.5

FOUR-BOLT SNTD HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 3000 AND 3100 SERIES

- Each housing includes the housing cap, housing base and cap bolts.
- SNTD housings are supplied in ductile iron.
- Housings with the F suffix are manufactured for fixed bearings. Those with the L suffix are float position housings.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ¼ BSPT thread size.
- Additional grease fittings are supplied for flexible configurations.
- Seal sleeve for da shaft to be supplied by customer and should have same O.D. as d_b.



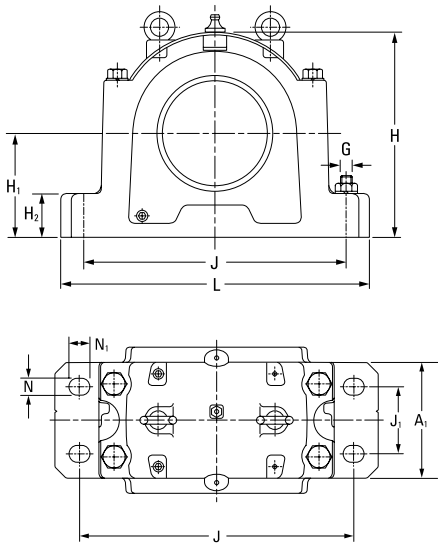
Labyrinth Seal



Taconite Seal

Shaft Dia.		Housing	Bearing	Locating Rings[1] OD x Width	Quantity Locating Rings Required for Fixed	Labyrinth Seal[2]	Taconite Seal[2]	End Cover[2]
d_a	d_b							
mm	**mm**							
130	**150**	SNTD 3134	22326	SR280X7.5	2	LO34	TA34	EC34
140	**160**	SNTD 3136	22328	SR300X7	2	LO36	TA36	EC36
150	**170**	SNTD 3138	22330	SR320X8	2	LO38	TA38	EC38
160	**180**	SNTD 3038 SNTD 3038 SNTD 3140	22232 23232 22332	SR290X17.5 SR290X5.5 SR340X9	2 2 2	LO38/180 LO38/180 LO40	TA38/180 TA38/180 TA40	EC38 EC38 EC40
170	**180**	SNTD 3134G	23134	SR280X10	2	LO40	TA40	EC40
	190	SNTD 3040 SNTD 3048	22234 22334	SR310X18 SR360X10	2 2	LO40/190 LO48/190	TA40/190 TA48/190	EC40 EC48
180	**200**	SNTD 3036G SNTD 3036G SNTD 3136G SNTD 3138G	23036 24036 23136 22236	SR280X17 SR280X4 SR300X10 SR320X19	2 2 2 2	LO44 LO44 LO44 LO44	TA44 TA44 TA44 TA44	EC44 EC44 EC44 EC44
190	**200**	SNTD 3038G SNTD 3038G SNTD 3138G	23038 24038 23138	SR290X10 SR290X7.5 SR320X10	4 2 2	LO44 LO44 LO44	TA44 TA44 TA44	EC44 EC44 EC44
	210	SNTD 3140G SNTD 3148	22238 22338	SR340X10 SR400X8	4 2	LO48/210 LO48/210	TA48/210 TA48/210	EC48 EC48
200	**220**	SNTD 3040G SNTD 3040G SNTD 3140G SNTD 3048 SNTD 3056	23040 24040 23140 22240 22340	SR310X10 SR310X6.5 SR340X10 SR360X21 SR420X14	4 2 2 2 2	LO48 LO48 LO48 LO48 LO56/220	TA48 TA48 TA48 TA48 TA56/220	EC48 EC48 EC48 EC48 EC56

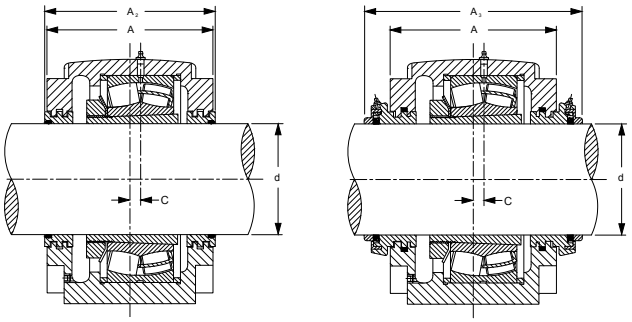
[1]Locating rings = sold one piece per box.
[2]Labyrinth, taconite seal and end cover sold one per box.



Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N_1	N	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
230	180	242.5	299.5	14	333	170	70	430	100	510	34	28	24	75
240	190	252.5	314.5	15	353	180	75	450	110	530	34	28	24	92
260	210	271.5	333.5	10	375	190	80	480	120	560	34	28	24	112
240	190	252	314	15	354	180	75	450	110	530	34	28	24	85.9
240	190	252	314	15	354	180	75	450	110	530	34	28	24	85.9
280	230	291.5	358.5	10	411	210	85	510	130	610	42	35	30	130
230	180	241.5	308.5	14	333	170	70	430	100	510	34	28	24	64.5
260	210	271	338	10	375	190	80	480	120	560	34	28	24	102.6
290	240	300	379.5	12	434	220	90	540	140	640	42	35	30	146.5
230	180	241	306	14	344	170	70	430	100	510	34	28	24	61
230	180	241	306	14	344	170	70	430	100	510	34	28	24	61
240	190	251	316	15	354	180	75	450	110	530	34	28	24	73.8
260	210	270.5	336	10	375	190	80	480	120	560	34	28	24	92.1
240	190	251	316	15	354	180	75	450	110	530	34	28	24	102.2
240	190	251	316	15	354	180	75	450	110	530	34	28	24	102.2
260	210	270.5	336	10	375	190	80	480	120	560	34	28	24	92.1
280	230	290	369.5	10	411	210	85	510	130	610	42	35	30	119.6
310	260	318.5	398	12	474	240	95	600	150	700	42	35	30	193
260	210	270	349.5	10	375	190	80	480	120	560	34	28	24	95
260	210	270	349.5	10	375	190	80	480	120	560	34	28	24	95
280	230	290	369.5	10	411	210	85	510	130	610	42	35	30	119.6
290	240	300	379.5	12	434	220	90	540	140	640	42	35	30	146.5
320	280	332.5	412	13	516	260	100	650	160	770	50	42	36	244.9

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FOUR-BOLT SNTD HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 3000 AND 3100 SERIES

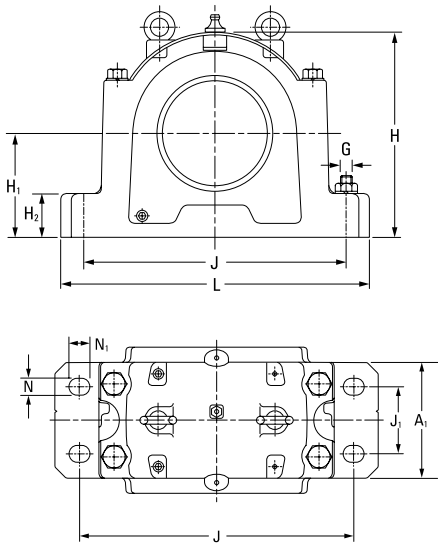


Labyrinth Seal **Taconite Seal**

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Shaft Dia.		Housing	Bearing	Locating Rings[1] OD x Width	Quantity Locating Rings Required for Fixed	Labyrinth Seal[2]	Taconite Seal[2]	End Cover[2]
d_a	d_b							
mm	**mm**							
220	**240**	SNTD 3044G SNTD 3044G SNTD 3144G SNTD 3148G SNTD 3156	23044 24044 23144 22244 22344	SR340X10 SR340X6 SR370X10 SR400X10 SR460X10.5	4 2 2 4 2	LO52 LO52 LO52 LO56/240 LO56/240	TA52 TA52 TA52 TA56/240 TA56/240	EC52 EC52 EC52 EC56 EC56
240	**260**	SNTD 3048G SNTD 3048G SNTD 3148G SNTD 3152G SNTD 3160	23048 24048 23148 22248 22348	SR360X12 SR360X11 SR400X10 SR440X22 SR500X12.5	4 2 2 2 2	LO56 LO56 LO56 LO60/260 LO60/260	TA56 TA56 TA56 TA60/260 TA60/260	EC56 EC56 EC56 EC60 EC60
260	**280**	SNTD 3052G SNTD 3052G SNTD 3152 SNTD 3064	23052 24052 23152 22252	SR400X22 SR400X4 SR440X10 SR480X25.5	2 2 2 2	LO60 LO60 LO60 LO64/280	TA60 TA60 TA60 TA64/280	EC60 EC60 EC60 EC64
	290	SNTD 3164	22352	SR540X15.5	2	LO64/290	TA64/290	EC64
280	**300**	SNTD 3056G SNTD 3056G SNTD 3156G SNTD 3160G	23056 24056 23156 22256	SR420X10 SR420X13 SR460X10 SR500X25	6 2 2 2	LO64 LO64 LO64 LO68/300	TA64 TA64 TA64 TA68/300	EC64 EC64 EC64 EC68
	310	SNTD 3168L	22356	SR580X17.5	2	LO68/310	TA68/310	EC68
300	**320**	SNTD 3060G SNTD 3060G SNTD 3160G SNTD 3164G	23060 24060 23160 22260	SR460X25 SR460X4 SR500X10 SR540X28	2 2 2 2	LO68 LO68 LO68 LO72/320	TA68 TA68 TA68 TA72/320	EC68 EC68 EC68 EC72

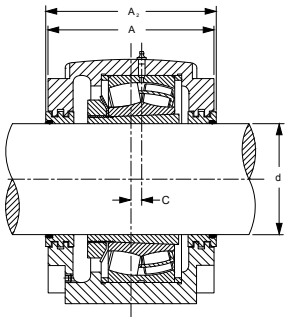
[1]Locating rings = sold one piece per box.
[2]Labyrinth, taconite seal and end cover sold one per box.



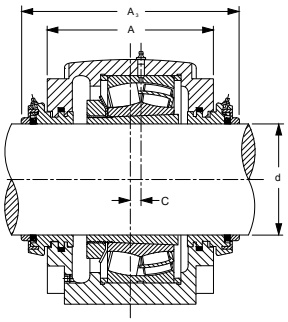
Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N_1	N	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
280	230	289.5	369	10	411	210	85	510	130	610	42	35	30	115.4
280	230	289.5	369	10	411	210	85	510	130	610	42	35	30	115.4
290	240	299.5	379	12	434	220	90	540	140	640	42	35	30	132.1
310	260	319	397.5	12	473	240	95	600	150	700	42	35	30	172.1
320	280	332.5	412	16	551	280	105	670	160	790	50	42	36	260
290	240	298.5	379.5	12	434	220	90	540	140	640	42	35	30	136.4
290	240	298.5	379.5	12	434	220	90	540	140	640	42	35	30	136.4
310	260	319	397.5	12	473	240	95	600	150	700	42	35	30	172.1
320	280	332	411.5	13	516	260	100	650	160	770	50	42	36	215.8
350	310	363	442.5	22	591	300	110	710	190	830	50	42	36	310
310	260	319	396.5	12	473	240	95	600	150	700	42	35	30	166.6
310	260	319	396.5	12	473	240	95	600	150	700	42	35	30	166.6
320	280	332.5	412	13	516	260	100	650	160	770	50	42	36	235
350	310	362.5	442	22	590	300	110	710	190	830	50	42	36	330.7
370	330	383	462.5	23	631	320	115	750	200	880	50	42	36	346
320	280	331.5	408	13	516	260	100	650	160	770	50	42	36	234.6
320	280	331.5	408	13	516	260	100	650	160	770	50	42	36	234.6
320	280	332	408	16	550	280	105	670	160	790	50	42	36	244.8
350	310	362	440.5	22	590	300	110	710	190	830	50	42	36	296.7
400	360	412	491.5	25	675	340	120	810	220	950	50	42	36	429.5
320	280	331.5	408	16	550	280	105	670	160	790	50	42	36	237.3
320	280	331.5	408	16	550	280	105	670	160	790	50	42	36	237.3
350	310	362	440.5	22	590	300	110	710	190	830	50	42	36	296.7
370	330	381.5	460	23	630	320	115	750	200	880	50	42	36	347.9

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FOUR-BOLT SNTD HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 3000 AND 3100 SERIES



Labyrinth Seal

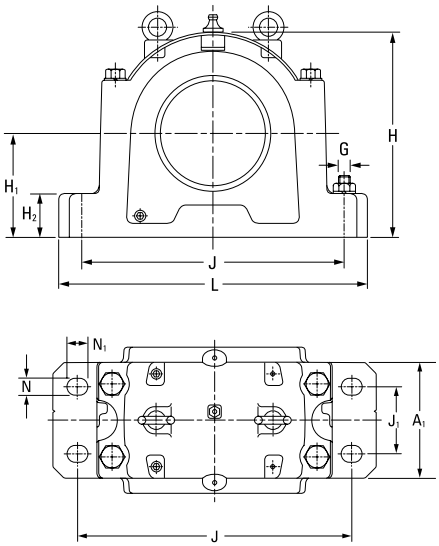


Taconite Seal

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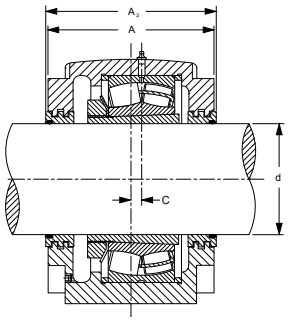
Shaft Dia.		Housing	Bearing	Locating Rings[1] OD x Width	Quantity Locating Rings Required for Fixed	Labyrinth Seal[2]	Taconite Seal[2]	End Cover[2]
d_a	d_b							
mm	**mm**							
320	**340**	SNTD 3064G SNTD 3064G SNTD 3164G SNTD 3168GF	23064 24064 23164 22264	SR480X10 SR480X10.5 SR540X10 SR580X20	6 2 2 2	LO72 LO72 LO72 LO76/340	TA72 TA72 TA72 TA76/340	EC72 EC72 EC72 EC76
340	**360**	SNTD 3068G SNTD 3068G SNTD 3168GF SNTD 3168GL	23068 24068 23168 23168	SR520X16 SR520X8.5 FIXED HOUSING FLOAT HOUSING	4 2 - -	LO76 LO76 LO76 LO76	TA76 TA76 TA76 TA76	EC76 EC76 EC76 EC76
360	**380**	SNTD 3072G SNTD 3072G SNTD 3172GF SNTD 3172GL	23072 24072 23172 23172	SR540X16 SR540X9 FIXED HOUSING FLOAT HOUSING	4 2 - -	LO80 LO80 LO80 LO80	TA80 TA80 TA80 TA80	EC80 EC80 EC80 EC80
	390	SNTD 3180F	22272	SR650X25	2	LO80/390	TA80/390	EC80
380	**400**	SNTD 3076GF SNTD 3076GL SNTD 3176GF SNTD 3176GL	23076 23076 23176 23176	FIXED HOUSING FLOAT HOUSING FIXED HOUSING FLOAT HOUSING	- - - -	LO84 LO84 LO84 LO84	TA84 TA84 TA84 TA84	EC84 EC84 EC84 EC84
400	**430**	SNTD 3080GF SNTD 3080GL SNTD 3180GF SNTD 3180GL	23080 23080 23180 23180	FIXED HOUSING FLOAT HOUSING FIXED HOUSING FLOAT HOUSING	- - - -	LO92 LO92 LO92 LO92	TA92 TA92 TA92 TA92	EC92 EC92 EC92 EC92

[1]Locating rings = sold one piece per box.
[2]Labyrinth, taconite seal and end cover sold one per box.

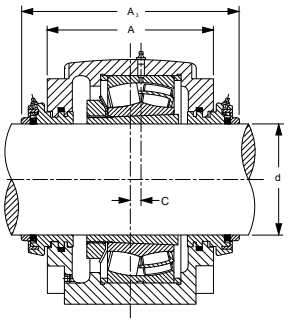


Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N_1	N	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
350	310	361.5	434	22	590	300	110	710	190	830	50	42	36	320.1
350	310	361.5	434	22	590	300	110	710	190	830	50	42	36	320.1
370	330	381.5	460	23	630	320	115	750	200	880	50	42	36	347.9
400	360	410.5	489	24	675	340	120	810	220	950	50	42	36	433.6
370	330	380.5	457	23	630	320	115	750	200	880	50	42	36	377.7
370	330	380.5	457	23	630	320	115	750	200	880	50	42	36	377.7
400	360	410.5	489	24	675	340	120	810	220	950	50	42	36	433.6
400	360	410.5	489	24	675	340	120	810	220	950	50	42	36	433.6
370	330	379.5	457	23	630	320	115	750	200	880	50	42	36	336.5
370	330	379.5	457	23	630	320	115	750	200	880	50	42	36	336.5
400	360	410.5	488	30	695	350	120	840	220	1000	50	42	36	457.5
400	360	410.5	488	30	695	350	120	840	220	1000	50	42	36	457.5
430	390	442	521.5	30	775	380	125	950	240	1120	60	48	42	595
400	360	410.5	487	23	675	340	120	810	220	950	50	42	36	458.9
400	360	410.5	487	24	675	340	120	810	220	950	50	42	36	458.9
400	360	410.5	487	30	715	360	120	870	220	1040	50	42	36	498.9
400	360	410.5	487	30	715	360	120	870	220	1040	50	42	36	498.9
400	360	410.5	489	30	695	350	120	840	220	1000	50	42	36	433.3
400	360	410.5	489	30	695	350	120	840	220	1000	50	42	36	433.3
430	390	440	519	30	775	380	125	950	240	1120	60	48	42	665.3
430	390	440	519	30	775	380	125	950	240	1120	60	48	42	665.3

Continued on next page.



Labyrinth Seal

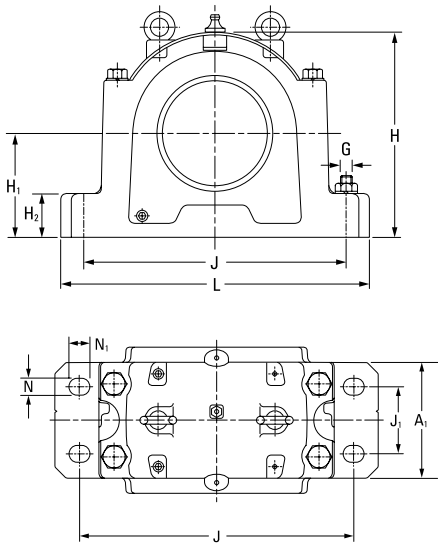


Taconite Seal

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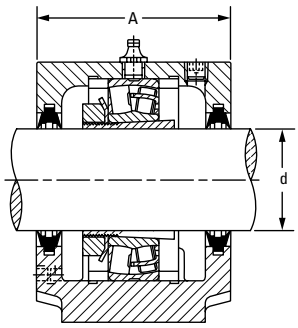
Shaft Dia.		Housing	Bearing	Locating Rings[1] OD x Width	Quantity Locating Rings Required for Fixed	Labyrinth Seal[2]	Taconite Seal[2]	End Cover[2]
d_a	d_b							
mm	**mm**							
420	**450**	SNTD 3084GF SNTD 3084GL SNTD 3184GF SNTD 3184GL	23084 23084 23184 23184	FIXED HOUSING FLOAT HOUSING FIXED HOUSING FLOAT HOUSING	- - - -	LO96 LO96 LO96 LO96	TA96 TA96 TA96 TA96	EC96 EC96 EC96 EC96
440	**470**	SNTD 3088GF SNTD 3088GL SNTD 3188GF SNTD 3188GL	23088 23088 23188 23188	FIXED HOUSING FLOAT HOUSING FIXED HOUSING FLOAT HOUSING	- - - -	LO30/500 LO30/500 LO30/500 LO30/500	TA30/500 TA30/500 TA30/500 TA30/500	EC30/500 EC30/500 EC30/500 EC30/500
460	**500**	SNTD 3092GF SNTD 3092GL SNTD 3192GF SNTD 3192GL	23092 23092 23192 23192	FIXED HOUSING FLOAT HOUSING FIXED HOUSING FLOAT HOUSING	- - - -	LO30/530 LO30/530 LO30/530 LO30/530	TA30/530 TA30/530 TA30/530 TA30/530	EC30/530 EC30/530 EC30/530 EC30/530
480	**510**	SNTD 3096GF SNTD 3096GL	23096 23096	FIXED HOUSING FLOAT HOUSING	- -	LO30/530/510 LO30/530/510	TA30/530/510 TA30/530/510	EC30/530 EC30/530
	520	SNTD 3196GF SNTD 3196GL	23196 23196	FIXED HOUSING FLOAT HOUSING	- -	LO30/560/520 LO30/560/520	TA30/560/520 TA30/560/520	EC30/560 EC30/560
500	**530**	SNTD 30/500GF SNTD 30/500GL	230/500 230/500	FIXED HOUSING FLOAT HOUSING	- -	LO30/560 LO30/560	TA30/560 TA30/560	EC30/560 EC30/560
530	**560**	SNTD 30/530GF	230/530	FIXED HOUSING	-	LO30/600	TA30/600	EC30/600
		SNTD 30/530GL	230/530	FLOAT HOUSING	-	LO30/600	TA30/600	EC30/600

[1]Locating rings = sold one piece per box.
[2]Labyrinth, taconite seal and end cover sold one per box.

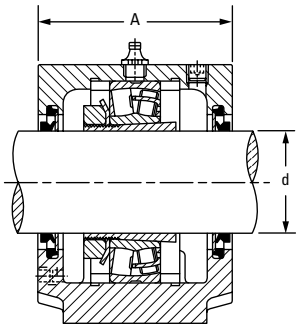


Housing Dimensions													4 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	C	H	H_1	H_2	J	J_1	L	N_1	N	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
400	360	410.5	491.5	30	715	360	120	870	220	1040	50	42	36	475.2
400	360	410.5	491.5	30	715	360	120	870	220	1040	50	42	36	475.2
460	420	470	551	35	810	410	130	1000	260	1170	60	48	42	722.8
460	420	470	551	35	810	410	130	1000	260	1170	60	48	42	722.8
430	390	440	513	30	775	380	125	950	240	1120	60	48	42	649.1
430	390	440	513	30	775	380	125	950	240	1120	60	48	42	649.1
460	430	470	543	35	835	420	135	1030	260	1220	60	48	42	806.4
460	430	470	543	35	835	420	135	1030	260	1220	60	48	42	806.4
460	420	470	543	35	810	410	130	1000	260	1170	60	48	42	760.7
460	420	470	543	35	810	410	130	1000	260	1170	60	48	42	760.7
470	440	480	555	35	880	440	145	1070	260	1280	60	48	42	887.5
470	440	480	555	35	880	440	145	1070	260	1280	60	48	42	887.5
460	420	470	555	42	810	410	130	1000	260	1170	60	48	42	699.8
460	420	470	555	42	810	410	130	1000	260	1170	60	48	42	699.8
470	440	476	545	35	920	460	155	1110	260	1330	70	56	48	941.6
470	440	476	545	35	920	460	155	1110	260	1330	70	56	48	941.6
460	430	470	545	35	835	420	135	1030	260	1220	60	48	42	779.4
460	430	470	545	35	835	420	135	1030	260	1220	60	48	42	779.4
470	440	480	555	35	920	460	155	1110	260	1330	70	56	48	954.1
470	440	480	555	35	920	460	155	1110	260	1330	70	56	48	954.1

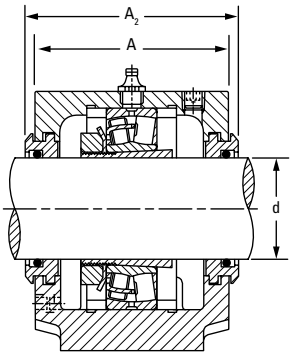
SNTN HOUSINGS FOR TAPERED BORE BEARINGS – 3000 LIGHT SERIES



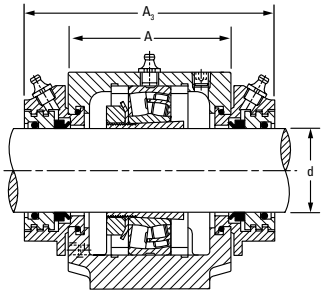
Double-Lip Seal



V-Ring Seal



Labyrinth Seal

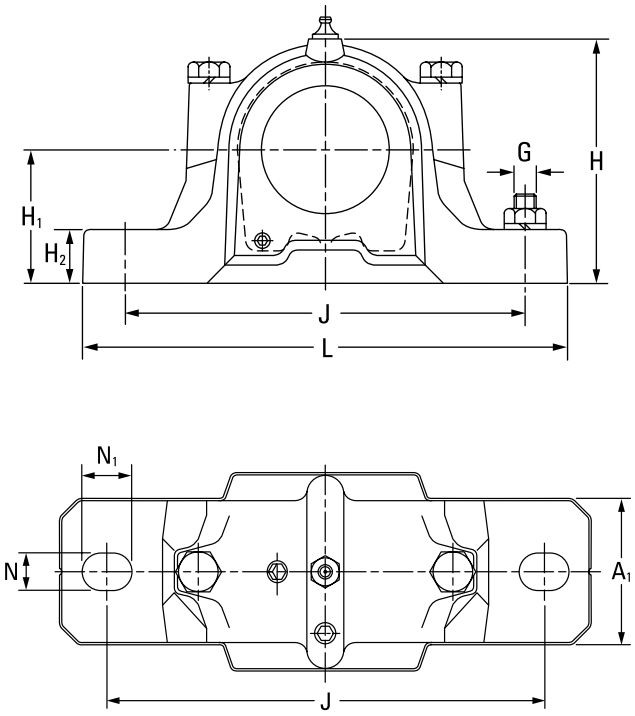


Taconite Seal

- SNTN 3000 Light Series cast iron housings are designed for large spherical roller bearings (110 - 140 mm tapered bore) used in light duty applications.
- The part numbers for ordering split plummer block housings and components are listed in the table below.
- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ¼ BSPT thread size.
- Housings shown are furnished in cast iron.

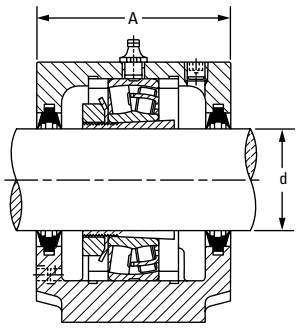
Shaft Dia. d	Housing	Bearing	Locating Rings[1] O.D. x Width	Adapter Sleeve[2]	Double-Lip Seal[3]	V-Ring Seal[3]	Labyrinth Seal[4]	Taconite Seal[4]	End Cover[4]
mm									
110	SNTN 3024	23024K	SR180X12	H3024	TSNG524	VR524	LO524	TA524	EC524-620
115	SNTN 3026	23026K	SR200X13.5	H3026	TSNG526	VR526	LO526	TA526	EC526
125	SNTN 3028	23028K	SR210X13	H3028	TSNG528	VR528	LO528	TA528	EC528
135	SNTN 3030	23030K	SR225X15	H3030	TSNG530	VR530	LO530	TA530	EC530
140	SNTN 3032	23032K	SR240X15	H3032	TSNG532	VR532	LO532	TA532	EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.
[3]Double-lip and V-ring seals sold two seals per box.
[4]Labyrinth, taconite seal and end cover sold one per box.

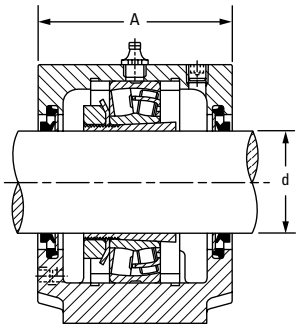


Housing Dimensions											2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
160	110	180	240	218	112	40	320	380	26	32	24	17.0
175	120	200	245	242	125	45	350	410	26	32	24	20.0
175	120	195	255	270	140	45	350	410	26	32	24	25.0
190	130	215	265	290	150	50	380	445	28	35	24	30.0
190	130	215	270	297	150	50	390	460	28	35	24	36.0

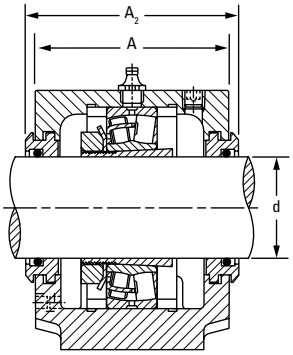
SNTN HOUSINGS FOR CYLINDRICAL BORE BEARINGS – 3000 LIGHT SERIES



Double-Lip Seal



V-Ring Seal

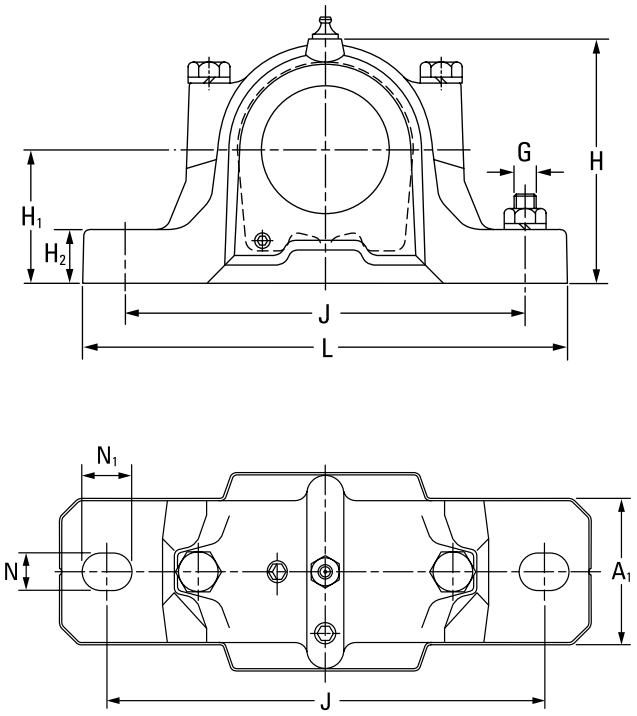


Labyrinth Seal

- SNTN 3000 Light Series cast iron housings are designed for large spherical roller bearings (120-175 mm cylindrical bore) used in light duty applications.
- The part numbers for ordering split plummer block housings and components are listed in the table below.
- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.
- Grease hole fittings and plugs use ¼ BSPT thread size.
- Assemblies shown are furnished in cast iron.
- Seal sleeve for da shaft to be supplied by customer and should have same O.D. as d_b.

Shaft Dia.		Housing	Bearing	Locating Rings[1] O.D. x Width	Double-Lip Seal[2]	V-Ring Seal[2]	Labyrinth Seal[3]	End Cover[3]
d_a	d_b							
mm	**mm**							
120	**135**	SNTN 3024 SNTN 3024	23024 24024	SR180X12 SR180X5	TSNG224 TSNG224	VR224 VR224	LO224 LO224	EC524-620 EC524-620
130	**145**	SNTN 3026 SNTN 3026	23026 24026	SR200X13.5 SR200X5	TSNG226 TSNG226	VR226 VR226	LO226 LO226	EC526 EC526
140	**155**	SNTN 3028 SNTN 3028	23028 24028	SR210X13 SR210X5	TSNG228 TSNG228	VR228 VR228	LO228 LO228	EC528 EC528
150	**165**	SNTN 3030 SNTN 3030	23030 24030	SR225X15 SR225X5.5	TSNG230 TSNG230	VR230 VR230	LO230 LO230	EC530 EC530
160	**175**	SNTN 3032 SNTN 3032	23032 24032	SR240X15 SR240X5	TSNG232 TSNG232	VR232 VR232	LO232 LO232	EC532 EC532

[1]Locating rings = two required for fixed position, sold one piece per box.
[2]Double-lip and V-ring seals sold two seals per box.
[3]Labyrinth seal and end cover sold one per box.



Housing Dimensions											2 Bolts Req'd	Housing Mass
A	A_1	A_2	A_3	H	H_1	H_2	J	L	N	N_1	G	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
160 160	110 110	180 180	240 240	218 218	112 112	40 40	320 320	380 380	26 26	32 32	24 24	17.0 17.0
175 175	120 120	200 200	245 245	242 242	125 125	45 45	350 350	410 410	26 26	32 32	24 24	20.0 20.0
175 175	120 120	195 195	255 255	270 270	140 140	45 45	350 350	410 410	26 26	32 32	24 24	25.0 25.0
190 190	130 130	215 215	265 265	290 290	150 150	50 50	380 380	445 445	28 28	35 35	24 24	30.0 30.0
190 190	130 130	215 215	270 270	297 297	150 150	50 50	390 390	460 460	28 28	35 35	24 24	36.0 36.0

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