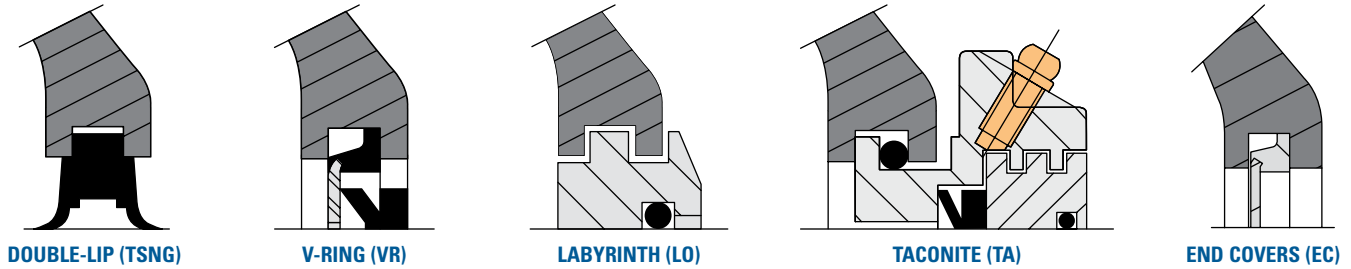
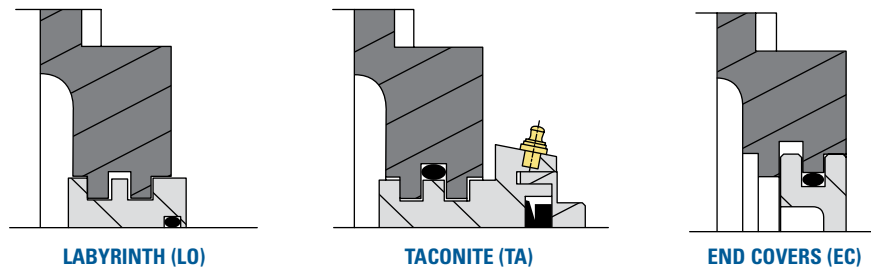


## SEAL OPTIONS: 500–600 AND 200–300 SERIES



## SEAL OPTIONS: 3000 AND 3100 SERIES



## SEAL DESCRIPTIONS

Timken® SNT 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 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.

## 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 linear speed	8 m/s (26 f/s)	7 m/s (23 f/s)	Same as bearing	7 m/s (23 f/s)
Grease relubrication <sup>(1)</sup>	Excellent	Excellent	Good	Good
Low friction	Good	Good	Excellent	Good
Resists dust/fine particles	Excellent	Excellent	Good	Excellent
Resists coarse particles	Good	Fair	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°

<sup>(1)</sup>If an application requires oil lubrication, please contact your Timken engineer.

## FLEXIBLE CONFIGURATIONS

With many options to choose from, there's a Timken SNT 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.

### TAPERED BORE BEARING EXAMPLE: SNT 512–610

**BEARING:** 21310K  
**LOCATING RINGS:** SR110X10.5  
**SLEEVE:** H310

**SEAL OPTIONS**  
**DOUBLE-LIP:** TSNG610  
**LOR:** LO610  
**V-RING:** VR610  
**TACONITE:** TA610  
**END COVER:** EC512-610

**BEARING:** 22310K  
**LOCATING RINGS:** SR110X4  
**SLEEVE:** H2310

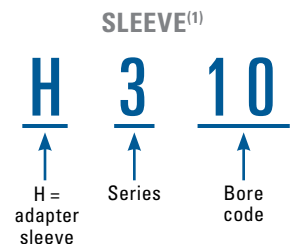
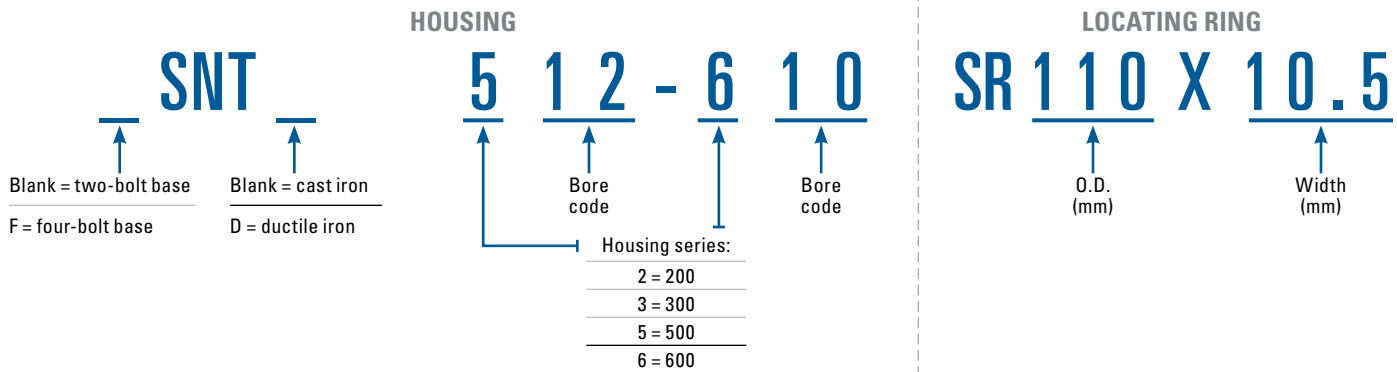
**SEAL OPTIONS**  
**DOUBLE-LIP:** TSNG610  
**LOR:** LO610  
**V-RING:** VR610  
**TACONITE:** TA610  
**END COVER:** EC512-610

**BEARING:** 22212K  
**LOCATING RINGS:** SR110X10  
**SLEEVE:** H312

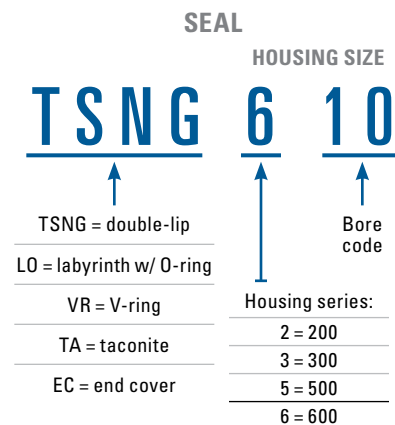
**SEAL OPTIONS**  
**DOUBLE-LIP:** TSNG512  
**LOR:** LO512  
**V-RING:** VR512  
**TACONITE:** TA512  
**END COVER:** EC512-610



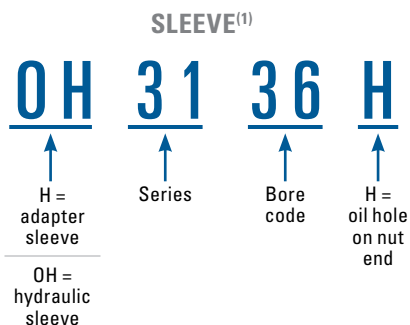
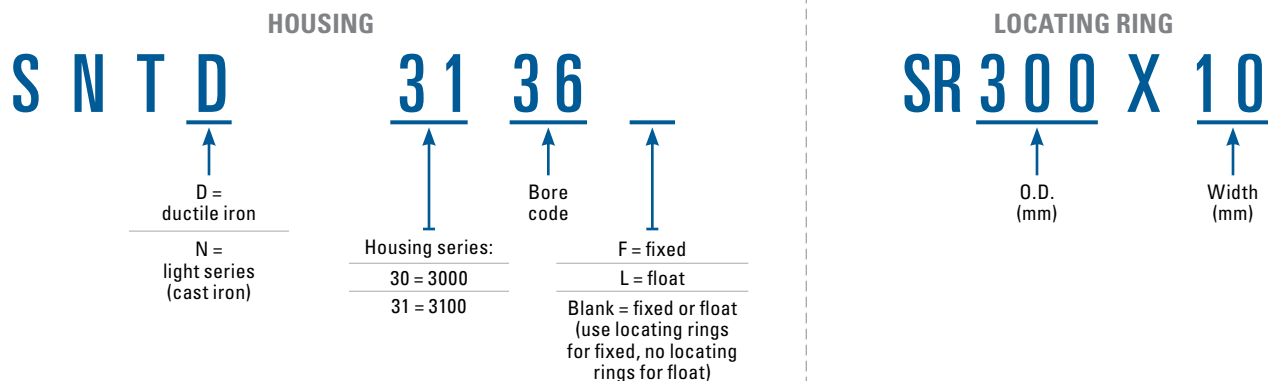
## SNT NOMENCLATURE: 200–300 AND 500–600 SERIES



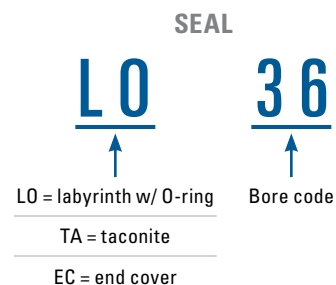
<sup>(1)</sup>Adapter sleeve includes locknut and lockwasher/lock plate



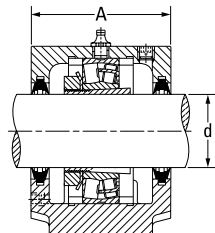
## SNT NOMENCLATURE: 3000 AND 3100 SERIES



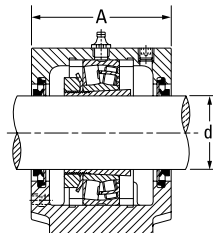
<sup>(1)</sup>Adapter sleeve includes locknut and lockwasher/lock plate



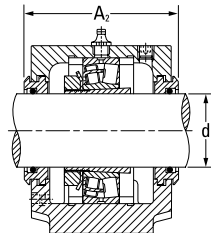
# TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS



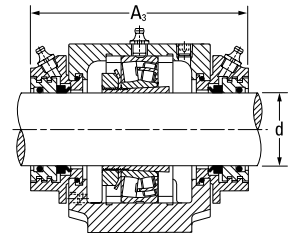
Double-Lip Seal



V-Ring Seal



Labyrinth Seal



Taconite Seal

Continued from previous page.

Shaft Dia.	Housing	Bearing	Locating Rings <sup>(1)</sup>	Adapter Sleeve <sup>(2)</sup>	Double-Lip Seal <sup>(3)</sup>	V-Ring Seal <sup>(3)</sup>	Labyrinth Seal <sup>(4)</sup>	Taconite Seal <sup>(4)</sup>	End Cover <sup>(4)</sup>
d			O.D. x Width						
mm									
65	SNT 515-612	22215K	SR130X12.5	H315	TSNG515	VR515	L0515	TA515	EC515-612
	SNT 518-615	21315K	SR160X14	H315	TSNG615	VR615	L0615	TA615	EC518-615
	SNT 518-615	22315K	SR160X5	H2315	TSNG615	VR615	L0615	TA615	EC518-615
70	SNT 516-613	22216K	SR140X12.5	H316	TSNG516	VR516	L0516	TA516	EC516-613
	SNT 519-616	21316K	SR170X14.5	H316	TSNG616	VR616	L0616	TA616	EC519-616
	SNT 519-616	22316K	SR170X5	H2316	TSNG616	VR616	L0616	TA616	EC519-616
75	SNT 517	22217K	SR150X12.5	H317	TSNG517	VR517	L0517	TA517	EC517
	SNT 520-617	21317K	SR180X14.5	H317	TSNG617	VR617	L0617	TA617	EC520-617
	SNT 520-617	22317K	SR180X5	H2317	TSNG617	VR617	L0617	TA617	EC520-617
80	SNT 518-615	22218K	SR160X12.5	H318	TSNG518	VR518	L0518	TA518	EC518-615
	SNT 518-615	23218K	SR160X6.25	H2318	TSNG518	VR518	L0518	TA518	EC518-615
85	SNT 519-616	22219K	SR170X12.5	H319	TSNG519	VR519	L0519	TA519	EC519-616
	SNT 522-619	21319K	SR200X17.5	H319	TSNG619	VR619	L0619	TA619	EC522-619
	SNT 522-619	22319K	SR200X6.5	H2319	TSNG619	VR619	L0619	TA619	EC522-619
90	SNT 520-617	22220K	SR180X12	H320	TSNG520	VR520	L0520	TA520	EC520-617
	SNT 520-617	23220K	SR180X4.85	H2320	TSNG520	VR520	L0520	TA520	EC520-617
	SNT 524-620	21320K	SR215X19.5	H320	TSNG620	VR620	L0620	TA620	EC524-620
	SNT 524-620	22320K	SR215X6.5	H2320	TSNG620	VR620	L0620	TA620	EC524-620
100	SNT 522-619	22222K	SR200X13.5	H322	TSNG522	VR522	L0522	TA522	EC522-619
	SNT 522-619	23222K	SR200X5.1	H2322	TSNG522	VR522	L0522	TA522	EC522-619
110	SNT 524-620	22224K	SR215X14	H3124	TSNG524	VR524	L0524	TA524	EC524-620
	SNT 524-620	23224K	SR215X5	H2324	TSNG524	VR524	L0524	TA524	EC524-620
115	SNT 526	22226K	SR230X13	H3126	TSNG526	VR526	L0526	TA526	EC526
	SNT 526	23226K	SR230X5	H2326	TSNG526	VR526	L0526	TA526	EC526
125	SNT 528	22228K	SR250X15	H3128	TSNG528	VR528	L0528	TA528	EC528
	SNT 528	23228K	SR250X5	H2328	TSNG528	VR528	L0528	TA528	EC528
135	SNT 530	22230K	SR270X16.5	H3130	TSNG530	VR530	L0530	TA530	EC530
	SNT 530	23230K	SR270X5	H2330	TSNG530	VR530	L0530	TA530	EC530
140	SNT 532	22232K	SR290X17	H3132	TSNG532	VR532	L0532	TA532	EC532
	SNT 532	23232K	SR290X5	H2332	TSNG532	VR532	L0532	TA532	EC532

<sup>(1)</sup> Locating rings = two required for fixed position, sold one piece per box.

<sup>(2)</sup> Adapter sleeve assembly includes one sleeve, one locknut and one lockwasher.

<sup>(3)</sup> Double-lip and V-ring seals sold two seals per box.

<sup>(4)</sup> Labyrinth, taconite seal and end cover sold one seal per box.

3D CAD and 2D drawings available at <http://cad.timken.com/category/snt-housed-units>