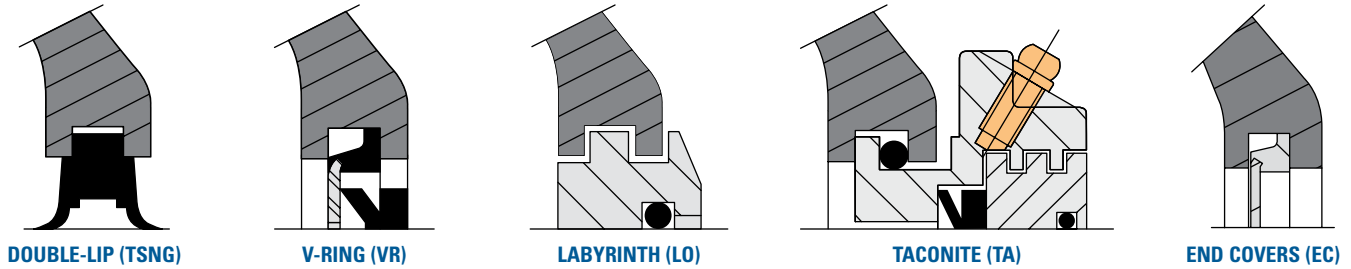
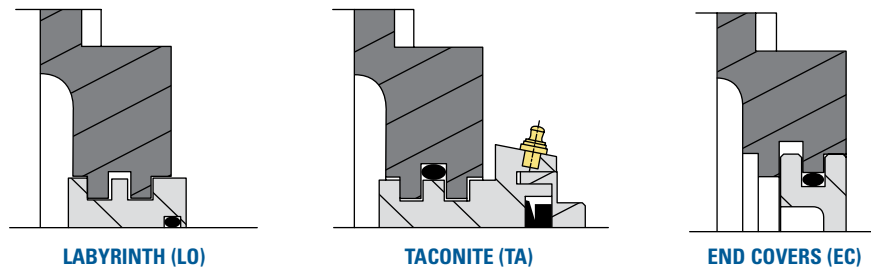


SEAL OPTIONS: 500–600 AND 200–300 SERIES



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 ⁽¹⁾	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°

⁽¹⁾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

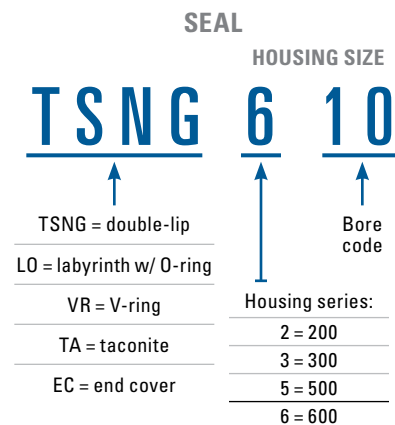
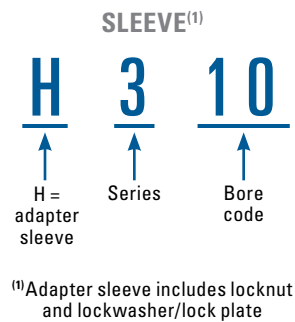
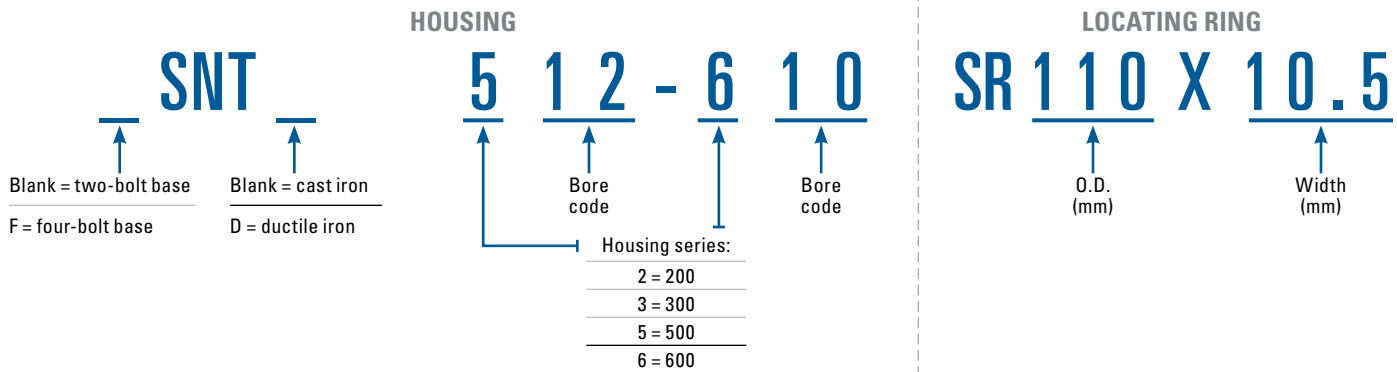
SEAL OPTIONS
DOUBLE-LIP: TSNG610
LOR: LO610
V-RING: VR610
TACONITE: TA610
END COVER: EC512-610

BEARING: 22212K
LOCATING RINGS: SR110X10
SLEEVE: H312

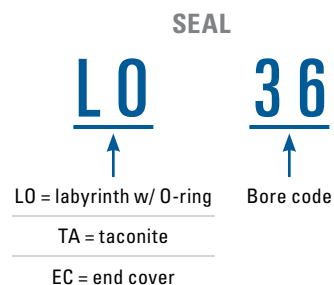
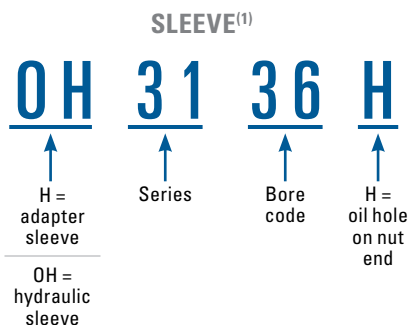
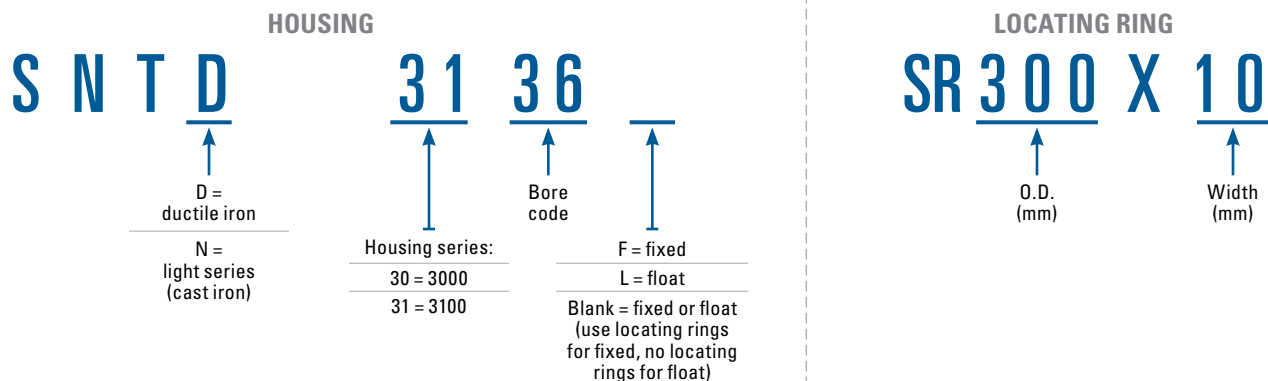
SEAL OPTIONS
DOUBLE-LIP: TSNG512
LOR: LO512
V-RING: VR512
TACONITE: TA512
END COVER: EC512-610



SNT NOMENCLATURE: 200–300 AND 500–600 SERIES

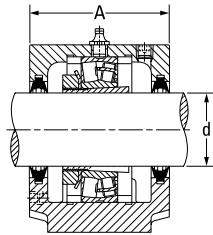


SNT NOMENCLATURE: 3000 AND 3100 SERIES

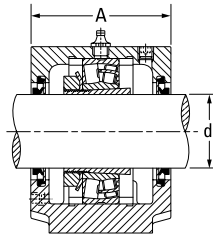


TWO-BOLT SNT HOUSINGS FOR TAPERED BORE BEARINGS

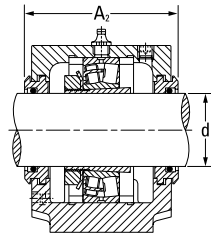
- The part numbers for ordering split plummer block housings and components are listed in the table below.
- Each housing includes the housing cap, housing base and cap bolts.
- Specify bearing suffix W33 for center lubrication of groove and holes, and use the housing center port for the grease fitting.



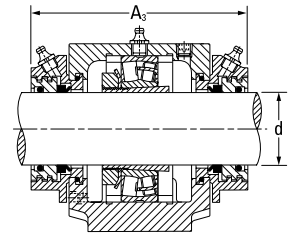
Double-Lip Seal



V-Ring Seal



Labyrinth Seal



Taconite Seal

Shaft Dia.	Housing	Bearing	Locating Rings ⁽¹⁾	Adapter Sleeve ⁽²⁾	Double-Lip Seal ⁽³⁾	V-Ring Seal ⁽³⁾	Labyrinth Seal ⁽⁴⁾	Taconite Seal ⁽⁴⁾	End Cover ⁽⁴⁾
d			O.D. x Width						
mm									
20	SNT 505 SNT 506-605	22205K 21305K	SR52X3.5 SR62X7.5	H305 H305	TSNG505 TSNG605	VR505 VR605	L0505 L0605	TA505 TA605	EC505 EC506-605
25	SNT 506-605 SNT 507-606	22206K 21306K	SR62X6 SR72X7.5	H306 H306	TSNG506 TSNG606	VR506 VR606	L0506 L0606	TA506 TA606	EC506-605 EC507-606
30	SNT 507-606 SNT 508-607	22207K 21307K	SR72X5.5 SR80X9	H307 H307	TSNG507-305 TSNG607	VR507 VR607	L0507 L0607	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	L0508 L0608 L0608	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	L0509 L0609 L0609	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	TSNG510-307 TSNG610 TSNG610	VR510 VR610 VR610	L0510 L0610 L0610	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	L0511 L0611 L0611	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	L0512 L0612 L0612	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	L0513 L0613 L0613	TA513 TA613 TA613	EC513-611 EC516-613 EC516-613

⁽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 seal per box.

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