

## Codex SNL Plummer housings

Pillow (plummer) block housings SNL type are the most popular type on the market. They are well adapted to various applications and are designed for the best price/performance ratio.

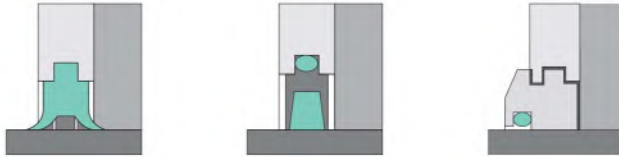
For installed bearings, they assure the best conditions to maximize their performance, their life time and to minimize maintenance. The split plummer block housings are typically used with self-aligning ball bearings or spherical roller bearings fitted on straight or stepped shafts. The bearings can be mounted on adapter or withdrawal sleeves or directly on to cylindrical shaft seats.

Plummer block housings are split units (cap and base) and assembly is carried out by attaching both parts together with bolts. Two fixing holes on the base are available for installation of the unit to a supporting structure.

The plummer block housings are made of high-quality grey cast iron to provide high tensile strength.

### Sealing arrangement

Proper sealing keeps the interior contact surfaces debris-free and the interior properly lubricated. SNL plummer (pillow) block housings are available with different standard sealing solutions.



Structural properties	TSNG Double lip seal	TSN Felt strip seal	TSU Labyrinth seal
Operating temperature (°C)	-40...+100	-40...+100	-40...+200
Circumferential speed (m/s)	< 8	< 15	> 15
Possible misalignment (Degrees)	0,5...1	< 0,5	< 0,3
Relubrication			
Low friction			
Suitable for floating bearings			
Vertical installation			

### DOUBLE-LIP SEALS (TSNG)

Double-lip seals are the most common seal design used with SNL 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.

### LABYRINTH SEALS (TSU)

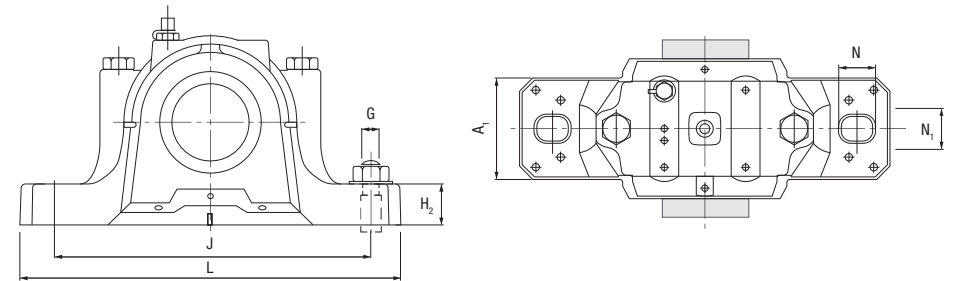
Labyrinth seals are made up of a single metal ring component that interconnects with the grooves in the housing to form a labyrinth gap. The inside diameter of the metal ring contains an O-ring that creates an interference fit with the shaft so that the ring will rotate with the shaft. Labyrinth seals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

### FELT SEALS OR STRIPS (TSN)

Felt seals are compatible with rubber seals but must be used for grease lubrication only. Felt seals are not suitable for dusty or moist environments. Their allowable peripheral speed, as a guideline, is 4m/s. A felt seal can be cut into two pieces that are respectively fitted into the seal grooves on the upper and lower plummer block housings. This feature greatly simplifies the assembly procedure for plummer blocks.

### END COVERS (ASNH)

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.



Type	A (mm)	H (mm)	H1 (mm)	L (mm)	N (mm)	N1 (mm)	J (mm)	A1 (mm)
SNL 511	95	128	70	255	23	18	210	70
SNL 512	105	134	70	255	23	18	210	70
SNL 513	110	149	80	275	24	18	230	80
SNL 515	115	155	80	280	24	18	230	80
SNL 516	120	177	95	315	28	22	260	90
SNL 517	125	183	95	320	28	22	260	90
SNL 518	140	194	100	345	28	22	290	100
SNL 520	160	218	122	380	32	26	320	110
SNL 522	175	242	125	410	32	26	350	120
SNL 524	185	271	140	410	32	26	350	120
SNL 526	190	290	150	445	35	28	380	130
SNL 528	205	302	150	500	42	35	420	150



Table of typical usage of SNL plummer block with bearing, adapter sleeve, sealing arrangement, end cover and locating ring.

Shaft Dia, (mm)	Housing No,	Bearing No,		Adapter Sleeve	Sealing Arrangement		End Cover	Locating Ring	
		Self-Alig, Ball	Spherical Roller		TSU	TSNA-G		Number	Qty
40	SNL 511	1309K	21309K	H309	-	TSNG 609	ASNH 511	100 x 9,5	2
	SNL 511	2309K	22309K	H2309	-	TSNG 609	ASNH 511	100 x 8	1
45	SNL 512	1310K	21310K	H310	-	TSNG 610	ASNH 512	110 x 10,5	2
	SNL 512	2310K	22310K	H2310	-	TSNG 610	ASNH 512	110 x 8	1
50	SNL 511	1211K	-	H211	TSU 511	TSNG 511	ASNH 511	100 x 11,5	2
	SNL 511	2211K	22211K	H311	TSU 511	TSNG 511	ASNH 511	100 x 9,5	2
	SNL 513	1311K	21311K	H311	-	TSNG 611	ASNH 513	120 x 11	2
	SNL 513	2311K	22311K	H2311	-	TSNG 611	ASNH 513	120 x 8	1
55	SNL 512	1212K	-	H212	TSU 512	TSNG 512	ASNH 512	110 x 13	2
	SNL 512	2212K	22212K	H312	TSU 512	TSNG 512	ASNH 512	110 x 10	2
	SNL 515	1312K	21312K	H312	-	TSNG 612	ASNH 515	130 x 12,5	2
	SNL 515	2312K	22312K	H2312	-	TSNG 612	ASNH 515	130 x 10	1
60	SNL 513	1213K	-	H213	TSU 513	TSNG 513	ASNH 513	120 x 14	2
	SNL 513	2213K	22213K	H313	TSU 513	TSNG 513	ASNH 513	120 x 10	2
	SNL 516	1313K	21313K	H313	-	TSNG 613	ASNH 516	140 x 12,5	2
	SNL 516	2313K	22313K	H2313	-	TSNG 613	ASNH 516	140 x 10	1
65	SNL 515	1215K	-	H215	TSU 515	TSNG 515	ASNH 513	130 x 15,5	2
	SNL 515	2215K	22215K	H315	TSU 515	TSNG 515	ASNH 513	130 x 12,5	2
	SNL 518	1315K	21315K	H315	-	TSNG 615	ASNH 518	160 x 14	2
	SNL 518	2315K	22315K	H2315	-	TSNG 615	ASNH 518	160 x 10	1
70	SNK 516	1216K	-	H217	TSU 516	TSNG 516	ASNH 516	140 x 16	2
	SNK 516	2216K	22216K	H316	TSU 516	TSNG 516	ASNH 516	140 x 12,5	2
75	SNL 517	1217K	-	H217	TSU 517	TSNG 517	ASNH 517	150 x 16,5	2
	SNL 517	2217K	22217K	H317	TSU 517	TSNG 517	ASNH 517	150 x 12,5	2
	SNL 520	1317K	21317K	H317	-	TSNG 617	ASNH 520	180 x 14,5	2
	SNL 520	2317K	22317K	H2317	-	TSNG 617	ASNH 520	180 x 10	1
80	SNL 518	1218K	-	H218	TSU 518	TSNG 518	ASNH 518	160 x 17,5	2
	SNL 518	2218K	22218K	H318	TSU 518	TSNG 518	ASNH 518	160 x 12,5	2
	SNL 518	-	23218K	H2318	TSU 518	TSNG 518	ASNH 518	160 x 12,5	1
85	SNL 522	-	22319K	H2319	-	TSNG 619	ASNH 522	200 x 13	1
90	SNL 520	1220K	-	H220	TSU 520	TSNG 520	ASNH 520	180 x 18	2
	SNL 520	2220K	22220K	H320	TSU 520	TSNG 520	ASNH 520	180 x 12	2
	SNL 520	-	23220K	H2320	TSU 520	TSNG 520	ASNH 520	180 x 9,7	1
	SNL 524	-	22320K	H2320	-	TSNG 620	ASNH 524	215 x 13	1
100	SNL 522	1222K	-	H222	TSU 522	TSNG 522	ASNH 522	200 x 21	2
	SNL 522	2222K	22222K	H322	TSU 522	TSNG 522	ASNH 522	200 x 13,5	2
	SNL 522	-	23222K	H2322	TSU 522	TSNG 522	ASNH 522	200 x 10,2	1
110	SNL 524	-	22224K	H3124	TSU 524	TSNG 524	ASNH 524	215 x 14	2
	SNL 524	-	23224K	H2324	TSU 524	TSNG 524	ASNH 524	215 x 10	1

