



Bearing housings

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Bearing housings

Bearing housings together with appropriate SKF bearings constitute economic, interchangeable bearing units that meet the demand for designs that are easy to maintain.

As a leading supplier of rolling bearings, SKF also produces bearing housings in a wide range of designs and sizes that are based on experience collected in all industrial areas. Among others, SKF bearing housings have the following advantages

- large assortment of design and sizes
- high quality of design and manufacture
- worldwide availability.

Plummer (pillow) block housings in the SNL 2, 3, 5 and 6 series are the most common housings and are shown in this catalogue with technical details. They have additional advantages

- short delivery times
- long term supply stability
- no minimum order quantities
- simplified ordering and stocking.

Other bearing housings in the SKF standard range, include

- split plummer (pillow) block housings
- one-piece plummer block housings
- flanged housings
- take-up housings.

They are only presented with their main design features. Publications with detailed information are noted and will be supplied on request.

The SKF manufacturing programme also includes special housings for particular applications, such as

- conveyors and drums
- roller beds and converters
- tube mills and rotary furnaces
- paper machines
- windmills
- pinions of open gears
- large electrical machines
- rudder post bearing arrangements
- ships' shafting support bearing arrangements.

For detailed information on these housings, please ask the SKF application engineering service and provide application details.

Besides bearing housings, SKF also supplies complete ready-to-mount bearing units, consisting of housing, bearing, and appropriate seals. These units are presented in the section "Bearing units" on **page 1115**.

SNL plummer block housings, 2, 3, 5 and 6 series

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Design features

SNL plummer block housings (→ fig. 1) are the most popular of the wide range of SKF housings. Because of their versatility it is seldom necessary to resort to tailored housings for specific applications. The main design features are listed below. Further information on SNL plummer block housings can be obtained from

- the product brochure “SNL plummer block housings solve the housing problems”
- the “SKF Interactive Engineering Catalogue” on CD-ROM or online at www.skf.com.

Building block system

The basis of the SNL plummer block housing system consists of a number of housings of the same design but in different sizes. By combining these housings with different standard seals (→ fig. 2) a wide variety of housing variants, all belonging to the standard range, can be supplied. SNL plummer blocks can accommodate shaft diameters ranging from 20 to 160 mm.

Reinforced base

The housing base is reinforced with ribs and extra material surrounding the holes for the attachment bolts in order to improve seating on the base plate. The attachment bolts can be preloaded to give better location and do not deform the housing base or housing bore.

Attachment

SNL housings have two attachment bolt holes in the base as standard. Housings of size 511-609 and larger are also available with four cast attachment bolt holes as standard, designated FSNL. These larger housings are also available without attachment bolt holes, but only made of ductile cast iron (blank base, designated SSNLD).

Also the smaller housings below size 511-609 can be used for four bolt mounting. Cast indications show where to drill the additional holes.

Heat conduction

The extra ribs in the housing base provide additional surface area between the base and base plate to improve heat flow away from the bearing.

Relubrication facility

The housing caps of SNL housings are equipped with two drilled and tapped holes for grease nipples, which are closed by metallic plugs. One grease nipple is supplied as standard.

Cast indications mark three additional grease nipple locations for relubrication of the bearing or the seals.

Fig. 1

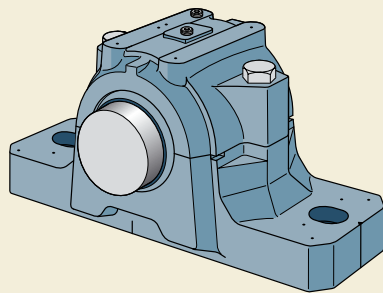
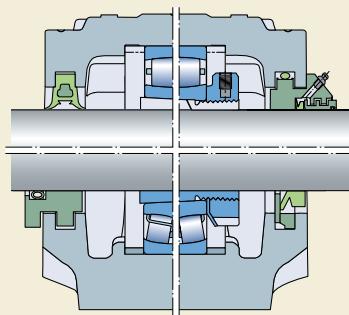


Fig. 2



Caps and bases individually marked

The housing base and cap are matched during manufacture and are not interchangeable. To prevent mixing, the same consecutive number is marked on the cap and base of each individual housing.

Mounting aid

To simplify mounting and make alignment more accurate, cast indications in the end faces of the housing base indicate the housing bore axis and the vertical axis.

Indications for holes to accommodate other components

Cast indications mark the positions where holes can be drilled for dowel pins, sensors for condition monitoring, or additional grease nipples.

Types of arrangement

Not only can different bearing types be incorporated in SNL plummer block housings, but they can also be arranged in different ways

- bearings with a tapered bore on an adapter sleeve on a smooth shaft (→ **fig. 3**) – SNL housings, 5 and 6 series (→ table starting on **page 1038**)
- bearings with a cylindrical bore on stepped shafts (→ **fig. 4**) – SNL housings, 2 and 3 series (→ table starting on **page 1048**).

Fig. 3

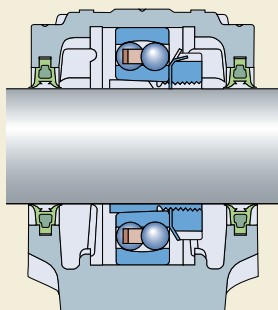
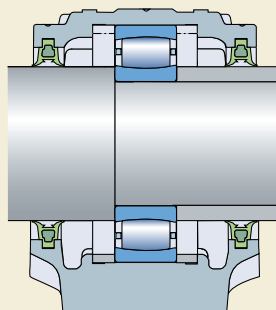


Fig. 4



Bearings in the non-locating position

The bearing seatings in the housings are sufficiently wide to enable axial displacement of the bearing.

CARB bearings, which compensate axial displacement within the bearing, must always be secured in the housing bore with locating rings. In addition, please follow the recommendations in the section “Axial displacement” in the chapter “CARB toroidal roller bearings” (→ **page 787**).

Bearings in the locating position

For bearings in the locating position two locating rings of the same width have to be inserted on each side of the bearing. This means, locating bearings are placed in the middle of the housing seating.

The locating rings are identified by the prefix FRB followed by the size (width/outside diameter) in millimetres uncoded, e.g. FRB 11.5/100. Appropriate locating rings are listed together with the bearings in the product tables.

Seals

The following standard seals (→ **fig. 5**) are available for SNL plummer block housings

- double-lip seals TSN .. G design (**a**) for peripheral speeds up to 8 m/s and operating temperatures from -40 to $+100$ °C
- four-lip seals TSN .. L design (**b**) for peripheral speeds up to 13 m/s and operating temperatures from -40 to $+100$ °C
- V-ring seals TSN .. A design (**c**) for peripheral speeds up to 7 m/s, under special conditions up to 12 m/s and operating temperatures from -40 to $+100$ °C
- labyrinth seals TSN .. S design (**d**) for unlimited peripheral speeds and operating temperatures from -50 to $+200$ °C
- taconite heavy-duty seals with radial labyrinth TSN .. ND design (**e**) for peripheral speeds up to 12 m/s and operating temperatures from -40 to $+100$ °C.

All seals are fully interchangeable because no modifications to the housing are required.

For housings mounted on the end of a shaft, end covers in the ASNH series are available (**f**).

Special design features

On request SNL plummer block housings can be supplied with special design features deviating from the standard. The essential features are listed below. They are indicated by designation suffixes.

- V** Housing with grease escape hole
- T** Drilled and tapped hole 1/4-28 UNF on one side of the housing cap with grease nipple AH 1/4-28 SAE-LT for relubrication of seals
- TD** Drilled and tapped hole 1/4-28 UNF on both sides of the housing cap with two grease nipples AH 1/4-28 SAE-LT for relubrication of seals
- SN** Housing with drilled and tapped hole for sensor
- K7** Seating in the housing machined to tolerance K7

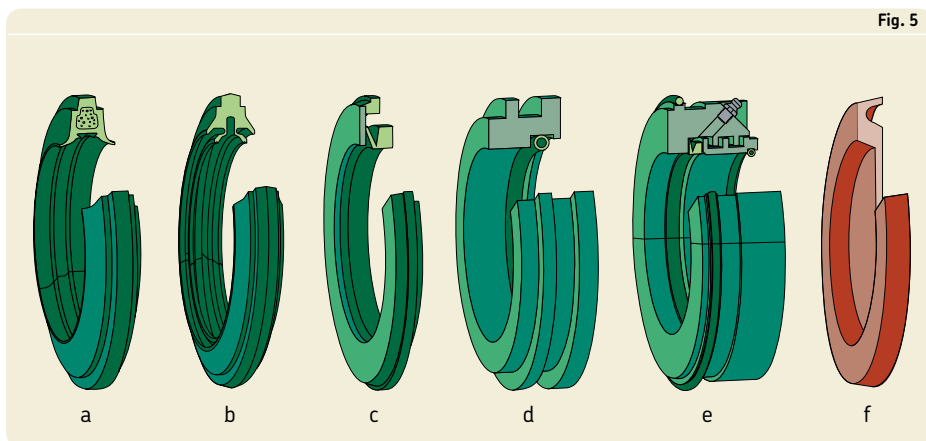


Fig. 5

Housing data – general

Dimensions

The boundary dimensions of an SNL plummer block housing conform to ISO 113:1999. The housings are dimensionally interchangeable with earlier SN, SNA, and SNH housings.

Tolerances

The tolerance limits for the centre height H_1 (of the housing bore above the support surface) are to js11. The bearing seating in the housing is machined to tolerance G7 as standard.

Materials

SNL plummer block housings are made of grey cast iron. For applications where the strength of grey cast iron is inadequate, dimensionally equivalent housings made of spheroidal graphite cast iron can be supplied. These housings are only available with four cast attachment bolt holes (series FSNLD) or without any holes in the base (series SSNLD).

Corrosion protection

SNL plummer block housings are painted as standard in accordance with ISO 12944-2: 1998, environmental Class C2. Black colour: RAL 9005. Blank surfaces are protected by a solventless rust inhibitor.

Load carrying ability

SNL plummer block housings are intended for loads acting vertically towards the base plate (support). In this case, loads are limited only by the load limits of the bearing. If loads acting in other directions occur, check that the magnitude of the load is permissible for the housing, the bolts joining the housing cap and base, and for the attachment bolts.

Lubrication

SNL plummer block housings with standard seals are designed for grease lubrication. For oil lubrication, modified SNL housings are available. These housings are supplied only together with the seals specially developed for oil lubrication.

How to order

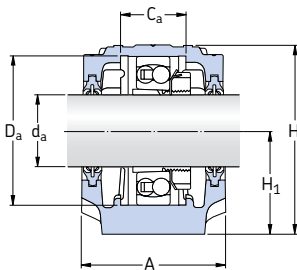
The housing, seals, end cover and locating rings must be ordered individually. Bearings and any necessary sleeves must also be ordered individually.

Example

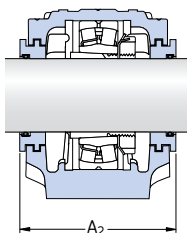
Two plummer block housings with four-lip seals are required for 22212 EK spherical roller bearings on H 312 adapter sleeves. One housing should be for the non-locating bearing position at the end of a shaft, and the other housing for the locating bearing position and a through shaft. The following items must be ordered

- 2 SNL 512-610 plummer block housings
- 2 TSN 512 L four-lip seal packs (each pack contains two seals)
- 1 ASNH 512-610 end cover
- 2 FRB 10/110 locating rings and
- 2 22212 EK bearings
- 2 H 312 sleeves

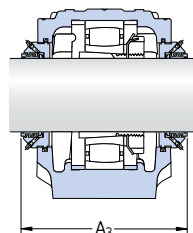
**SNL plummer block housings
for bearings on adapter sleeve**
d_a 20 – 35 mm



Four-lip seals
L design

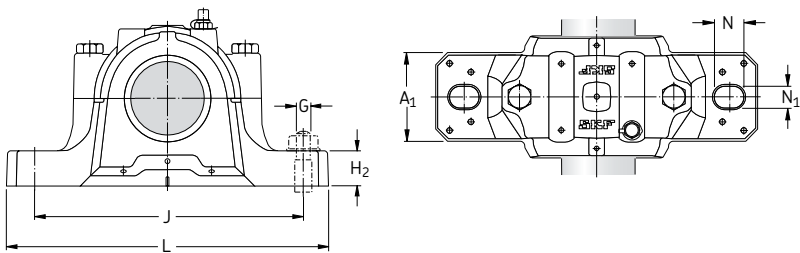


Labyrinth seals
S design



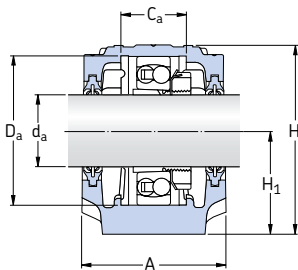
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	–			
20	67	46	74	40	19	130	165	20	15	12	1,45	SNL 505 TG SNL 505 TA SNL 505 TS SNL 505 TND	SNL 505 SNL 505 SNL 505 SNL 505	TSN 505 G TSN 505 A TSN 505 S TSN 505 ND	ASNH 505 ASNH 505 ASNH 505 ASNH 505
	77	52	89	50	22	150	185	20	15	12	2,00	SNL 605 TG SNL 605 TA SNL 605 TS SNL 605 TND	SNL 506-605 SNL 506-605 SNL 506-605 SNL 506-605	TSN 605 G TSN 605 A TSN 605 S TSN 605 ND	ASNH 506-605 ASNH 506-605 ASNH 506-605 ASNH 506-605
	77	52	89	50	22	150	185	20	15	12	2,00	SNL 506 TG SNL 506 TA SNL 506 TS SNL 506 TND	SNL 506-605 SNL 506-605 SNL 506-605 SNL 506-605	TSN 506 G TSN 506 A TSN 506 S TSN 506 ND	ASNH 506-605 ASNH 506-605 ASNH 506-605 ASNH 506-605
	82	52	93	50	22	150	185	20	15	12	2,20	SNL 606 TG SNL 606 TA SNL 606 TS SNL 606 TND	SNL 507-606 SNL 507-606 SNL 507-606 SNL 507-606	TSN 606 G TSN 606 A TSN 606 S TSN 606 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
25	82	52	93	50	22	150	185	20	15	12	2,20	SNL 507 TL SNL 507 TA SNL 507 TS SNL 507 TND	SNL 507-606 SNL 507-606 SNL 507-606 SNL 507-606	TSN 507 L TSN 507 A TSN 507 S TSN 507 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
	85	60	108	60	25	170	205	20	15	12	2,90	SNL 607 TG SNL 607 TA SNL 607 TS SNL 607 TND	SNL 508-607 SNL 508-607 SNL 508-607 SNL 508-607	TSN 607 G TSN 607 A TSN 607 S TSN 607 ND	ASNH 508-607 ASNH 508-607 ASNH 508-607 ASNH 508-607
	85	60	108	60	25	170	205	20	15	12	2,90	SNL 508 TL SNL 508 TA SNL 508 TS SNL 508 TND	SNL 508-607 SNL 508-607 SNL 508-607 SNL 508-607	TSN 508 L TSN 508 A TSN 508 S TSN 508 ND	ASNH 508-607 ASNH 508-607 ASNH 508-607 ASNH 508-607
	90	60	113	60	25	170	205	20	15	12	3,20	SNL 608 TG SNL 608 TA SNL 608 TS SNL 608 TND	SNL 510-608 SNL 510-608 SNL 510-608 SNL 510-608	TSN 608 G TSN 608 A TSN 608 S TSN 608 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608

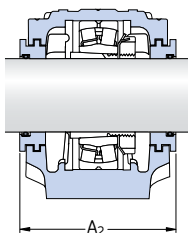


Shaft d_a	Bearing seating		Width across seal		Appropriate bearings and associated components						
	C_a	D_a	A_2	A_3	Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing	
mm	mm	mm	mm				-				
20	25	52	80	125	1205 EK -	H 205 -	FRB 5/52 -	2205 EK 22205 EK C 2205 K	H 305 H 305 H 305 E	FRB 3.5/52 FRB 3.5/52 FRB 3.5/52	
	32	62	89	135	1305 EK -	H 305 -	FRB 7.5/62 -	2305 EK -	H 2305 -	FRB 4/62 -	
25	32	62	89	135	1206 EK -	H 206 -	FRB 8/62 -	2206 EK 22206 EK C 2206 K	H 306 H 306 H 306 E	FRB 6/62 FRB 6/62 FRB 6/62	
	34	72	94	140	1306 EK 21306 CCK	H 306 H 306	FRB 7.5/72 FRB 7.5/72	2306 K -	H 2306 -	FRB 3.5/72 -	
30	34	72	94	145	1207 EK -	H 207 -	FRB 8.5/72 -	2207 EK 22207 EK C 2207 K	H 307 H 307 H 307 E	FRB 5.5/72 FRB 5.5/72 FRB 5.5/72	
	39	80	97	145	1307 EK 21307 CCK	H 307 H 307	FRB 9/80 FRB 9/80	2307 EK -	H 2307 -	FRB 4/80 -	
35	39	80	97	150	1208 EK -	H 208 -	FRB 10.5/80 -	2208 EK 22208 EK C 2208 K	H 308 H 308 H 308 E	FRB 8/80 FRB 8/80 FRB 8/80	
	41	90	102	150	1308 EK 21308 CCK	H 308 H 308	FRB 9/90 FRB 9/90	2308 EK 22308 EK	H 2308 H 2308	FRB 4/90 FRB 4/90	

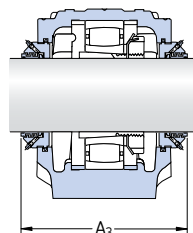
**SNL plummer block housings
for bearings on adapter sleeve**
d_a 40 – 55 mm



Four-lip seals
L design

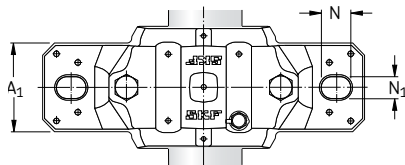
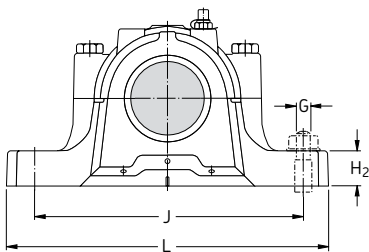


Labyrinth seals
S design



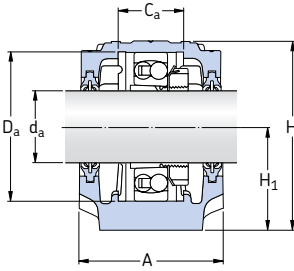
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	-			
40	85	60	109	60	25	170	205	20	15	12	2,90	SNL 509 TL SNL 509 TA SNL 509 TS SNL 509 TND	SNL 509 SNL 509 SNL 509 SNL 509	TSN 509 L TSN 509 A TSN 509 S TSN 509 ND	ASNH 509 ASNH 509 ASNH 509 ASNH 509
	95	70	128	70	28	210	255	24	18	16	4,40	SNL 609 TG SNL 609 TA SNL 609 TS SNL 609 TND	SNL 511-609 SNL 511-609 SNL 511-609 SNL 511-609	TSN 609 G TSN 609 A TSN 609 S TSN 609 ND	ASNH 511-609 ASNH 511-609 ASNH 511-609 ASNH 511-609
45	90	60	113	60	25	170	205	20	15	12	3,20	SNL 510 TL SNL 510 TA SNL 510 TS SNL 510 TND	SNL 510-608 SNL 510-608 SNL 510-608 SNL 510-608	TSN 510 L TSN 510 A TSN 510 S TSN 510 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608
	105	70	134	70	30	210	255	24	18	16	5,10	SNL 610 TG SNL 610 TA SNL 610 TS SNL 610 TND	SNL 512-610 SNL 512-610 SNL 512-610 SNL 512-610	TSN 610 G TSN 610 A TSN 610 S TSN 610 ND	ASNH 512-610 ASNH 512-610 ASNH 512-610 ASNH 512-610
50	95	70	128	70	28	210	255	24	18	16	4,40	SNL 511 TL SNL 511 TA SNL 511 TS SNL 511 TND	SNL 511-609 SNL 511-609 SNL 511-609 SNL 511-609	TSN 511 L TSN 511 A TSN 511 S TSN 511 ND	ASNH 511-609 ASNH 511-609 ASNH 511-609 ASNH 511-609
	110	80	150	80	30	230	275	24	18	16	6,50	SNL 611 TG SNL 611 TA SNL 611 TS SNL 611 TND	SNL 513-611 SNL 513-611 SNL 513-611 SNL 513-611	TSN 611 G TSN 611 A TSN 611 S TSN 611 ND	ASNH 513-611 ASNH 513-611 ASNH 513-611 ASNH 513-611
55	105	70	134	70	30	210	255	24	18	16	5,10	SNL 512 TL SNL 512 TA SNL 512 TS SNL 512 TND	SNL 512-610 SNL 512-610 SNL 512-610 SNL 512-610	TSN 512 L TSN 512 A TSN 512 S TSN 512 ND	ASNH 512-610 ASNH 512-610 ASNH 512-610 ASNH 512-610
	115	80	156	80	30	230	280	24	18	16	7,00	SNL 612 TG SNL 612 TA SNL 612 TS SNL 612 TND	SNL 515-612 SNL 515-612 SNL 515-612 SNL 515-612	TSN 612 G TSN 612 A TSN 612 S TSN 612 ND	ASNH 515-612 ASNH 515-612 ASNH 515-612 ASNH 515-612

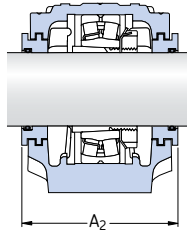


Shaft d_a	Bearing seating		Width across seal		Appropriate bearings and associated components							
	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing	Spherical roller bearing	CARB bearing	Adapter sleeve	Locating rings 2 per housing
mm	mm	mm	mm	mm	-							
40	30	85	97	150	1209 EK	H 209	FRB 5.5/85	2209 EK	22209 EK	C 2209 K	H 309	FRB 3.5/85
					-	-	-	-	-	-	H 309 E	FRB 3.5/85
	44	100	107	155	1309 EK	H 309	FRB 9.5/100	2309 EK	22309 EK	-	H 2309	FRB 4/100
					21309 EK	H 309	FRB 9.5/100	-	-	-	H 2309	FRB 4/100
45	41	90	102	155	1210 EK	H 210	FRB 10.5/90	2210 EK	22210 EK	C 2210 K	H 310	FRB 9/90
					-	-	-	-	-	-	H 310 E	FRB 9/90
	48	110	117	165	1310 EK	H 310	FRB 10.5/110	2310 K	22310 EK	-	H 2310	FRB 4/110
					21310 EK	H 310	FRB 10.5/110	-	-	-	H 2310	FRB 4/110
50	44	100	107	165	1211 EK	H 211	FRB 11.5/100	2211 EK	22211 EK	C 2211 K	H 311	FRB 9.5/100
					-	-	-	-	-	-	H 311 E	FRB 9.5/100
	51	120	122	170	1311 EK	H 311	FRB 11/120	2311 K	22311 EK	-	H 2311	FRB 4/120
					21311 EK	H 311	FRB 11/120	-	-	-	H 2311	FRB 4/120
55	48	110	117	175	1212 EK	H 212	FRB 13/110	2212 EK	22212 EK	C 2212 K	H 312	FRB 10/110
					-	-	-	-	-	-	H 312 E	FRB 10/110
	56	130	127	175	1312EK	H 312	FRB 12.5/130	2312 K	22312 EK	-	H 2312	FRB 5/130
					21312 EK	H 312	FRB 12.5/130	-	-	-	H 2312	FRB 5/130

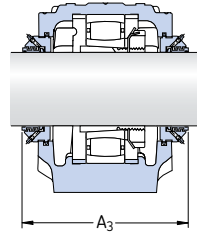
**SNL plummer block housings
for bearings on adapter sleeve**
d_a 60 – 75 mm



Four-lip seals
L design

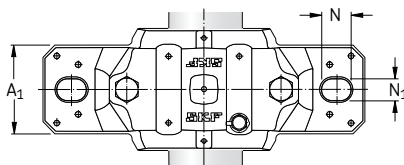
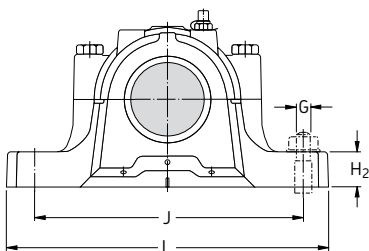


Labyrinth seals
S design



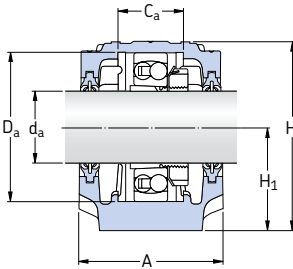
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	–			
60	110	80	150	80	30	230	275	24	18	16	6,50	SNL 513 TL SNL 513 TA SNL 513 TS SNL 513 TND	SNL 513-611 SNL 513-611 SNL 513-611 SNL 513-611	TSN 513 L TSN 513 A TSN 513 S TSN 513 ND	ASNH 513-611 ASNH 513-611 ASNH 513-611 ASNH 513-611
	120	90	177	95	32	260	315	28	22	20	9,50	SNL 613 TG SNL 613 TA SNL 613 TS SNL 613 TND	SNL 516-613 SNL 516-613 SNL 516-613 SNL 516-613	TSN 613 G TSN 613 A TSN 613 S TSN 613 ND	ASNH 516-613 ASNH 516-613 ASNH 516-613 ASNH 516-613
65	115	80	156	80	30	230	280	24	18	16	7,00	SNL 515 TL SNL 515 TA SNL 515 TS SNL 515 TND	SNL 515-612 SNL 515-612 SNL 515-612 SNL 515-612	TSN 515 L TSN 515 A TSN 515 S TSN 515 ND	ASNH 515-612 ASNH 515-612 ASNH 515-612 ASNH 515-612
	140	100	194	100	35	290	345	28	22	20	12,5	SNL 615 TG SNL 615 TA SNL 615 TS SNL 615 TND	SNL 518-615 SNL 518-615 SNL 518-615 SNL 518-615	TSN 615 G TSN 615 A TSN 615 S TSN 615 ND	ASNH 518-615 ASNH 518-615 ASNH 518-615 ASNH 518-615
70	120	90	177	95	32	260	315	28	22	20	9,50	SNL 516 TL SNL 516 TA SNL 516 TS SNL 516 TND	SNL 516-613 SNL 516-613 SNL 516-613 SNL 516-613	TSN 516 L TSN 516 A TSN 516 S TSN 516 ND	ASNH 516-613 ASNH 516-613 ASNH 516-613 ASNH 516-613
	145	100	212	112	35	290	345	28	22	20	13,7	SNL 616 TG SNL 616 TA SNL 616 TS SNL 616 TND	SNL 519-616 SNL 519-616 SNL 519-616 SNL 519-616	TSN 616 G TSN 616 A TSN 616 S TSN 616 ND	ASNH 519-616 ASNH 519-616 ASNH 519-616 ASNH 519-616
75	125	90	183	95	32	260	320	28	22	20	10,0	SNL 517 TL SNL 517 TA SNL 517 TS SNL 517 TND	SNL 517 SNL 517 SNL 517 SNL 517	TSN 517 L TSN 517 A TSN 517 S TSN 517 ND	ASNH 517 ASNH 517 ASNH 517 ASNH 517
	160	110	218	112	40	320	380	32	26	24	17,6	SNL 617 TG SNL 617 TA SNL 617 TS SNL 617 TND	SNL 520-617 SNL 520-617 SNL 520-617 SNL 520-617	TSN 617 G TSN 617 A TSN 617 S TSN 617 ND	ASNH 520-617 ASNH 520-617 ASNH 520-617 ASNH 520-617

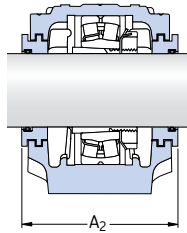


Shaft d_a	Bearing seating		Width across seal		Appropriate bearings and associated components					
	C_a	D_a	A_2	A_3	Self-aligning ball bearing Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing
mm	mm	mm	mm			-				
60	51	120	122	180	1213 EK -	H 213 -	FRB 14/120 -	2213 EK 22213 EK C 2213 K	H 313 H 313 H 313 E	FRB 10/120 FRB 10/120 FRB 10/120
	58	140	138	180	1313 EK 21313 EK	H 313 H 313	FRB 12.5/140 FRB 12.5/140	2313 K 22313 EK -	H 2313 H 2313 -	FRB 5/140 FRB 5/140 -
65	56	130	127	175	1215 K -	H 215 -	FRB 15.5/130 -	2215 EK 22215 EK C 2215 K	H 315 H 315 H 315 E	FRB 12.5/130 FRB 12.5/130 FRB 12.5/130
	65	160	158	200	1315 K 21315 EK	H 315 H 315	FRB 14/160 FRB 14/160	2315 K 22315 EK C 2315 K	H 2315 H 2315 H 2315	FRB 5/160 FRB 5/160 FRB 5/160
70	58	140	138	205	1216 K -	H 216 -	FRB 16/140 -	2216 EK 22216 EK C 2216 K	H 316 H 316 H 316 E	FRB 12.5/140 FRB 12.5/140 FRB 12.5/140
	68	170	163	205	1316 K 21316 EK	H 316 H 316	FRB 14.5/170 FRB 14.5/170	2316 K 22316 EK C 2316 K	H 2316 H 2316 H 2316	FRB 5/170 FRB 5/170 FRB 5/170
75	61	150	143	210	1217 K -	H 217 -	FRB 16.5/150 -	2217 K 22217 EK C 2217 K	H 317 H 317 H 317 E	FRB 12.5/150 FRB 12.5/150 FRB 12.5/150
	70	180	178	220	1317 K 21317 EK	H 317 H 317	FRB 14.5/180 FRB 14.5/180	2317 K 22317 EK C 2317 K	H 2317 H 2317 H 2317	FRB 5/180 FRB 5/180 FRB 5/180

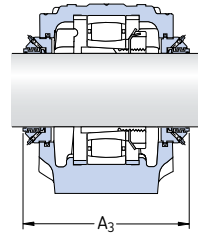
**SNL plummer block housings
for bearings on adapter sleeve**
d_a 80 – 115 mm



Four-lip seals
L design

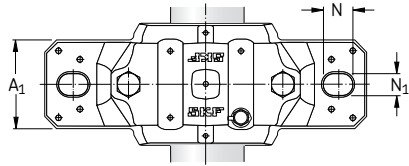
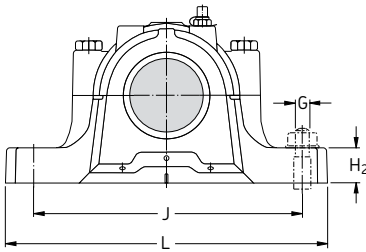


Labyrinth seals
S design



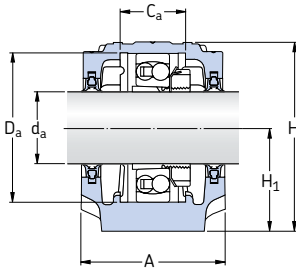
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover		
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G							
mm	mm										kg	-					
80	140	100	194	100	35	290	345	28	22	20	12,5	SNL 518 TL	SNL 518-615	TSN 518 L	ASNH 518-615		
												SNL 518 TA				TSN 518 A	ASNH 518-615
												SNL 518 TS				TSN 518 S	ASNH 518-615
												SNL 518 TND				TSN 518 ND	ASNH 518-615
85	145	100	212	112	35	290	345	28	22	20	13,7	SNL 519 TL	SNL 519-616	TSN 519 L	ASNH 519-616		
												SNL 519 TA				TSN 519 A	ASNH 519-616
												SNL 519 TS				TSN 519 S	ASNH 519-616
												SNL 519 TND				TSN 519 ND	ASNH 519-616
	175	120	242	125	45	350	410	32	26	24	22,0	SNL 619 TG	SNL 522-619	TSN 619 G	ASNH 522-619		
												SNL 619 TA				TSN 619 A	ASNH 522-619
												SNL 619 TS				TSN 619 S	ASNH 522-619
												SNL 619 TND				TSN 619 ND	ASNH 522-619
90	160	110	218	112	40	320	380	32	26	24	17,6	SNL 520 TL	SNL 520-617	TSN 520 L	ASNH 520-617		
												SNL 520 TA				TSN 520 A	ASNH 520-617
												SNL 520 TS				TSN 520 S	ASNH 520-617
												SNL 520 TND				TSN 520 ND	ASNH 520-617
	185	120	271	140	45	350	410	32	26	24	26,2	SNL 620 TG	SNL 524-620	TSN 620 G	ASNH 524-620		
												SNL 620 TA				TSN 620 A	ASNH 524-620
												SNL 620 TS				TSN 620 S	ASNH 524-620
												SNL 620 TND				TSN 620 ND	ASNH 524-620
100	175	120	242	125	45	350	410	32	26	24	22,0	SNL 522 TL	SNL 522-619	TSN 522 L	ASNH 522-619		
												SNL 522 TA				TSN 522 A	ASNH 522-619
												SNL 522 TS				TSN 522 S	ASNH 522-619
												SNL 522 TND				TSN 522 ND	ASNH 522-619
110	185	120	271	140	45	350	410	32	26	24	26,2	SNL 524 TG	SNL 524-620	TSN 524 G	ASNH 524-620		
												SNL 524 TA				TSN 524 A	ASNH 524-620
												SNL 524 TS				TSN 524 S	ASNH 524-620
												SNL 524 TND				TSN 524 ND	ASNH 524-620
115	190	130	290	150	50	380	445	35	28	24	33,0	SNL 526 TG	SNL 526	TSN 526 G	ASNH 526		
												SNL 526 TA				TSN 526 A	ASNH 526
												SNL 526 TS				TSN 526 S	ASNH 526
												SNL 526 TND				TSN 526 ND	ASNH 526

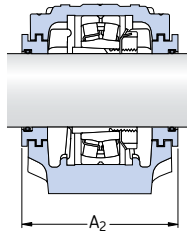


Shaft d_a	Bearing seating		Width across seal		Appropriate bearings and associated components						
	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Adapter sleeve	Locating rings 2 per housing	Self-aligning ball bearing	Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing
mm	mm	mm	mm			-					
80	65	160	158	225	1218 K	H 218	FRB 17.5/160	2218 K	-	H 318	FRB 12.5/160
					22218 EK	H 318	FRB 12.5/160	23218 CCK/W33 C 2218 K	H 2318 H 318 E	FRB 6.25/16 FRB 12.5/160	
85	68	170	163	220	1219 K	H 219	FRB 18/170	2219 K	-	H 319	FRB 12.5/170
					-	-	-	22219 EK	H 319	FRB 12.5/170	
80	200	191	235	1319 K	H 319	FRB 17.5/200	2319 K	-	H 2319	FRB 6.5/200	
				21319 EK	H 319	FRB 17.5/200	22319 EK	H 2319	FRB 6.5/200		
90	70	180	178	230	1220 K	H 220	FRB 18/180	2220 K	-	H 320	FRB 12/180
					22220 EK	H 320	FRB 12/180	23220 CCK/W33 C 2220 K	H 2320 H 320 E	FRB 4.85/180 FRB 12/180	
86	215	199	240	1320 K	H 320	FRB 19.5/215	2320 K	-	H 2320	FRB 6.5/215	
				21320 EK	H 320	FRB 19.5/215	22320 EK C 2320 K	H 2320 H 2320	FRB 6.5/215 FRB 6.5/215		
100	80	200	191	250	1222 K	H 222	FRB 21/200	2222 K	-	H 322	FRB 13.5/200
					22222 EK	H 322	FRB 13.5/200	23222 CCK/W33 C 2222 K	H 2322 H 322 E	FRB 5.1/200 FRB 13.5/200	
110	86	215	199	260	1224 K	H 3024	FRB 22/215	-	-	-	-
					22224 EK	H 3124	FRB 14/215	23224 CCK/W33 C 3224 K	H 2324 H 2324 L	FRB 5/215 FRB 5/215	
115	90	230	208	265	22226 EK	-	-	-	-	-	-
					-	H 3126	FRB 13/230	23226 CCK/W33 C 2226 K	H 2326 H 3126 L	FRB 5/230 FRB 13/230	

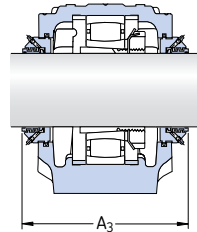
**SNL plummer block housings
for bearings on adapter sleeve**
d_a **125 – 140 mm**



Double-lip seals
G design

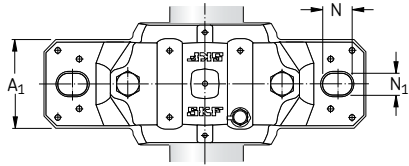
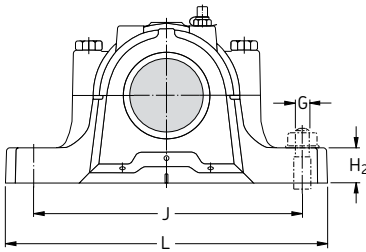


Labyrinth seals
S design



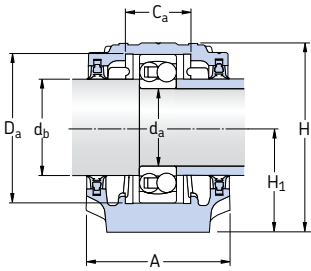
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components		End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G			Housing only	Seals	
mm	mm										kg	–			
125	205	150	302	150	50	420	500	42	35	30	40,0	SNL 528 TG	SNL 528	TSN 528 G	ASNH 528
												SNL 528 TA	SNL 528	TSN 528 A	ASNH 528
												SNL 528 TS	SNL 528	TSN 528 S	ASNH 528
												SNL 528 TND	SNL 528	TSN 528 ND	ASNH 528
135	220	160	323	160	60	450	530	42	35	30	49,0	SNL 530 TG	SNL 530	TSN 530 G	ASNH 530
												SNL 530 TA	SNL 530	TSN 530 A	ASNH 530
												SNL 530 TS	SNL 530	TSN 530 S	ASNH 530
												SNL 530 TND	SNL 530	TSN 530 ND	ASNH 530
140	235	160	344	170	60	470	550	42	35	30	55,0	SNL 532 TG	SNL 532	TSN 532 G	ASNH 532
												SNL 532 TA	SNL 532	TSN 532 A	ASNH 532
												SNL 532 TS	SNL 532	TSN 532 S	ASNH 532
												SNL 532 TND	SNL 532	TSN 532 ND	ASNH 532

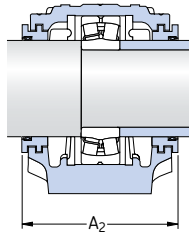


Shaft d_a	Bearing seating		Width across seal		Appropriate bearings and associated components						
	C_a	D_a	A_2	A_3	Spherical roller bearing	Adapter sleeve	Locating rings 2 per housing	Spherical roller bearing CARB bearing	Adapter sleeve	Locating rings 2 per housing	
mm	mm	mm	mm		-						
125	98	250	223	285	22228 CCK/W33	H 3128	FRB 15/250	23228 CCK/W33 C 2228 K	H 2328 H 3128 L	FRB 5/250 FRB 15/250	
135	106	270	241	295	22230 CCK/W33	H 3130	FRB 16.5/270	23230 CCK/W33 C 2230 K	H 2330 H 3130 L	FRB 5/270 FRB 16.5/270	
140	114	290	254	315	22232 CCK/W33	H 3132	FRB 17/290	23232 CCK/W33 C 3232 K	H 2332 H 2332 L	FRB 5/290 FRB 5/290	

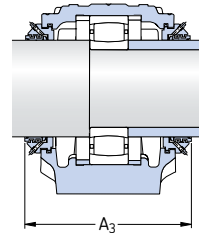
**SNL plummer block housings
for bearings with cylindrical bore**
d_a 25 – 40 mm



Double-lip seals
G design

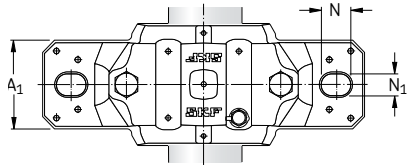
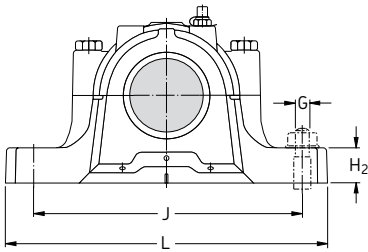


Labyrinth seals
S design



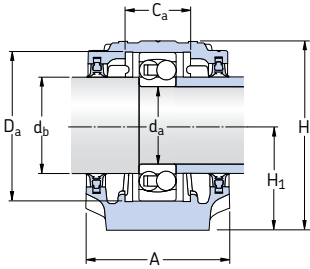
Taconite seals
ND design

Shaft d _a	Housing Dimensions									Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover	
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁						G
mm	mm									kg	–				
25	67	46	74	40	19	130	165	20	15	12	1,40	SNL 205 TG SNL 205 TS SNL 205 TND	SNL 205 SNL 205 SNL 205	TSN 205 G TSN 205 S TSN 205 ND	ASNH 506-605 ASNH 506-605 ASNH 506-605
	77	52	89	50	22	150	185	20	15	12	1,90	SNL 305 TG SNL 305 TA SNL 305 TS SNL 305 TND	SNL 206-305 SNL 206-305 SNL 206-305 SNL 206-305	TSN 305 G TSN 305 A TSN 305 S TSN 305 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
30	77	52	89	50	22	150	185	20	15	12	1,90	SNL 206 TG SNL 206 TA SNL 206 TS SNL 206 TND	SNL 206-305 SNL 206-305 SNL 206-305 SNL 206-305	TSN 206 G TSN 206 A TSN 206 S TSN 206 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
	82	52	93	50	22	150	185	20	15	12	2,20	SNL 306 TG SNL 306 TA SNL 306 TS SNL 306 TND	SNL 507-606 SNL 507-606 SNL 507-606 SNL 507-606	TSN 306 G TSN 306 A TSN 306 S TSN 306 ND	ASNH 507-606 ASNH 507-606 ASNH 507-606 ASNH 507-606
35	82	52	93	50	22	150	185	20	15	12	2,10	SNL 207 TG SNL 207 TA SNL 207 TS SNL 207 TND	SNL 207 SNL 207 SNL 207 SNL 207	TSN 207 G TSN 207 A TSN 207 S TSN 207 ND	ASNH 509 ASNH 509 ASNH 509 ASNH 509
	85	60	108	60	25	170	205	20	15	12	2,75	SNL 307 TG SNL 307 TA SNL 307 TS SNL 307 TND	SNL 208-307 SNL 208-307 SNL 208-307 SNL 208-307	TSN 307 G TSN 307 A TSN 307 S TSN 307 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608
40	85	60	108	60	25	170	205	20	15	12	2,75	SNL 208 TG SNL 208 TA SNL 208 TS SNL 208 TND	SNL 208-307 SNL 208-307 SNL 208-307 SNL 208-307	TSN 208 G TSN 208 A TSN 208 S TSN 208 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608
	90	60	113	60	25	170	205	20	15	12	3,20	SNL 308 TG SNL 308 TA SNL 308 TS SNL 308 TND	SNL 510-608 SNL 510-608 SNL 510-608 SNL 510-608	TSN 308 G TSN 308 A TSN 308 S TSN 308 ND	ASNH 510-608 ASNH 510-608 ASNH 510-608 ASNH 510-608

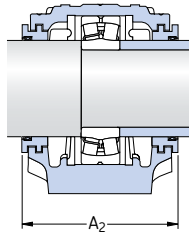


Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
d_a	d_b	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
mm		mm		mm		-			
25	30	25	52	90	140	1205 E -	FRB 5/52 -	2205 E 22205 E C 2205	FRB 3.5/52 FRB 3.5/52 FRB 3.5/52
	30	32	62	89	140	1305 E 21305 CC	FRB 7.5/62 FRB 7.5/62	2305 -	FRB 4/62 -
30	35	32	62	89	150	1206 E -	FRB 8/62 -	2206 E 22206 E C 2206	FRB 6/62 FRB 6/62 FRB 6/62
	35	34	72	94	155	1306 E 21306 CC	FRB 7.5/72 FRB 7.5/72	2306 -	FRB 3.5/72 -
35	45	34	72	96	160	1207 E -	FRB 8.5/72 -	2207 E 22207 E C 2207	FRB 5.5/72 FRB 5.5/72 FRB 5.5/72
	45	39	80	99	145	1307 E 21307 CC	FRB 9/80 FRB 9/80	2307 E -	FRB 4/80 -
40	50	39	80	99	160	1208 E -	FRB 10.5/80 -	2208 E 22208 E C 2208	FRB 8/80 FRB 8/80 FRB 8/80
	50	41	90	102	167	1308 E 21308 E	FRB 9/90 FRB 9/90	2308 E 22308 E -	FRB 4/90 FRB 4/90 -

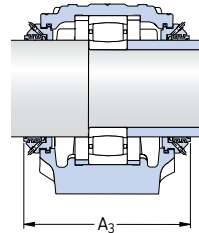
**SNL plumber block housings
for bearings with cylindrical bore**
d_a 45 – 60 mm



Double-lip seals
G design

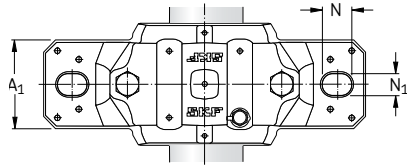
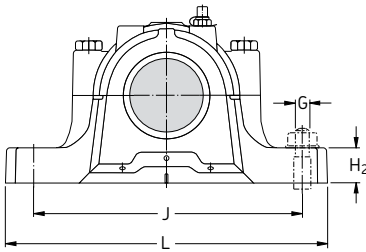


Labyrinth seals
S design



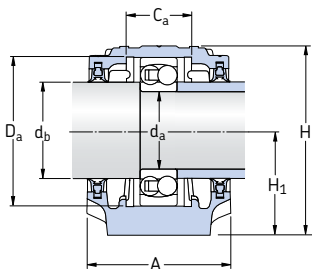
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover		
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G							
mm	mm										kg	–					
45	85	60	109	60	25	170	205	20	15	12	2,75	SNL 209 TG SNL 209 TA SNL 209 TS SNL 209 TND	SNL 209 SNL 209 SNL 209 SNL 209	TSN 209 G TSN 209 A TSN 209 S TSN 209 ND	ASNH 511-609 ASNH 511-609 ASNH 511-609 ASNH 511-609		
			95	70	128	70	28	210	255	24	18	16	4,40	SNL 309 TG SNL 309 TA SNL 309 TS SNL 309 TND	SNL 511-609 SNL 511-609 SNL 511-609 SNL 511-609	TSN 309 G TSN 309 A TSN 309 S TSN 309 ND	ASNH 511-609 ASNH 511-609 ASNH 511-609 ASNH 511-609
			90	60	113	60	25	170	205	20	15	12	3,00	SNL 210 TG SNL 210 TA SNL 210 TS SNL 210 TND	SNL 210 SNL 210 SNL 210 SNL 210	TSN 210 G TSN 210 A TSN 210 S TSN 210 ND	ASNH 512-610 ASNH 512-610 ASNH 512-610 ASNH 512-610
					105	70	134	70	30	210	255	24	18	16	5,10	SNL 310 TG SNL 310 TA SNL 310 TS SNL 310 TND	SNL 512-610 SNL 512-610 SNL 512-610 SNL 512-610
50	95	70	128	70	28	210	255	24	18	16	4,20	SNL 211 TG SNL 211 TA SNL 211 TS SNL 211 TND	SNL 211 SNL 211 SNL 211 SNL 211	TSN 211 G TSN 211 A TSN 211 S TSN 211 ND	ASNH 513-611 ASNH 513-611 ASNH 513-611 ASNH 513-611		
			110	80	150	80	30	230	275	24	18	16	6,50	SNL 311 TG SNL 311 TA SNL 311 TS SNL 311 TND	SNL 513-611 SNL 513-611 SNL 513-611 SNL 513-611	TSN 311 G TSN 311 A TSN 311 S TSN 311 ND	ASNH 513-611 ASNH 513-611 ASNH 513-611 ASNH 513-611
			105	70	134	70	30	210	255	24	18	16	4,75	SNL 212 TG SNL 212 TA SNL 212 TS SNL 212 TND	SNL 212 SNL 212 SNL 212 SNL 212	TSN 212 G TSN 212 A TSN 212 S TSN 212 ND	ASNH 515-612 ASNH 515-612 ASNH 515-612 ASNH 515-612
					115	80	156	80	30	230	280	24	18	16	7,00	SNL 312 TG SNL 312 TA SNL 312 TS SNL 312 TND	SNL 515-612 SNL 515-612 SNL 515-612 SNL 515-612

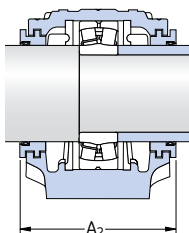


Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
d _a	d _b	C _a	D _a	A ₂	A ₃	Self-aligning ball bearing	Locating rings 2 per housing	Self-aligning ball bearing	Locating rings 2 per housing
						Spherical roller bearing		Spherical roller bearing	
								CARB bearing	
mm		mm		mm		-			
45	55	30	85	97	160	1209 E -	FRB 5.5/85 -	2209 E 22209 E C 2209	FRB 3.5/85 FRB 3.5/85 FRB 3.5/85
	55	44	100	107	172	1309 E 21309 E	FRB 9.5/100 FRB 9.5/100	2309 E 22309 E -	FRB 4/100 FRB 4/100 -
50	60	41	90	102	165	1210 E -	FRB 10.5/90 -	2210 E 22210 E C 2210	FRB 9/90 FRB 9/90 FRB 9/90
	60	48	110	117	180	1310 E 21310 E	FRB 10.5/110 FRB 10.5/110	2310 22310 E -	FRB 4/110 FRB 4/110 -
55	65	44	100	107	170	1211 E -	FRB 11.5/100 -	2211 E 22211 E C 2211	FRB 9.5/100 FRB 9.5/100 FRB 9.5/100
	65	51	120	122	185	1311 E 21311 E	FRB 11/120 FRB 11/120	2311 22311 E -	FRB 4/120 FRB 4/120 -
60	70	48	110	117	185	1212 E -	FRB 13/110 -	2212 E 22212 E C 2212	FRB 10/110 FRB 10/110 FRB 10/110
	70	56	130	127	197	1312 21312 E	FRB 12.5/130 FRB 12.5/130	2312 22312 E -	FRB 5/130 FRB 5/130 -

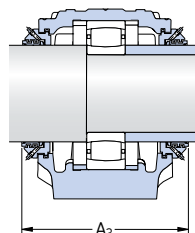
**SNL plummer block housings
for bearings with cylindrical bore**
d_a 65 – 80 mm



Double-lip seals
G design

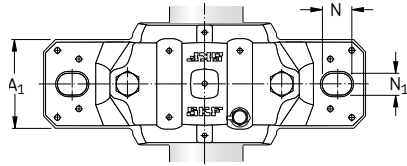
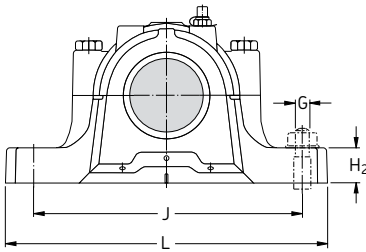


Labyrinth seals
S design



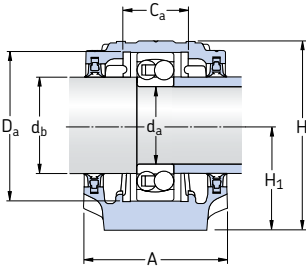
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	–			
65	110	80	149	80	30	230	275	24	18	16	6,10	SNL 213 TG	SNL 213	TSN 213 G	ASNH 516-613
												SNL 213 TA	SNL 213	TSN 213 A	ASNH 516-613
												SNL 213 TS	SNL 213	TSN 213 S	ASNH 516-613
												SNL 213 TND	SNL 213	TSN 213 ND	ASNH 516-613
	120	90	177	95	32	260	315	28	22	20	9,50	SNL 313 TG	SNL 516-613	TSN 313 G	ASNH 516-613
												SNL 313 TA	SNL 516-613	TSN 313 A	ASNH 516-613
												SNL 313 TS	SNL 516-613	TSN 313 S	ASNH 516-613
												SNL 313 TND	SNL 516-613	TSN 313 ND	ASNH 516-613
70	125	90	183	95	32	260	320	28	22	20	10,0	SNL 314 TG	SNL 517	TSN 314 G	ASNH 517
												SNL 314 TA	SNL 517	TSN 314 A	ASNH 517
												SNL 314 TS	SNL 517	TSN 314 S	ASNH 517
												SNL 314 TND	SNL 517	TSN 314 ND	ASNH 517
75	115	80	155	80	30	230	280	24	18	16	6,60	SNL 215 TG	SNL 215	TSN 215 G	ASNH 518-615
												SNL 215 TA	SNL 215	TSN 215 A	ASNH 518-615
												SNL 215 TS	SNL 215	TSN 215 S	ASNH 518-615
												SNL 215 TND	SNL 215	TSN 215 ND	ASNH 518-615
	140	100	194	100	35	290	345	28	22	20	12,5	SNL 315 TG	SNL 518-615	TSN 315 G	ASNH 518-615
												SNL 315 TA	SNL 518-615	TSN 315 A	ASNH 518-615
												SNL 315 TS	SNL 518-615	TSN 315 S	ASNH 518-615
												SNL 315 TND	SNL 518-615	TSN 315 ND	ASNH 518-615
80	120	90	177	95	32	260	315	28	22	20	9,00	SNL 216 TG	SNL 216	TSN 216 G	ASNH 216
												SNL 216 TA	SNL 216	TSN 216 A	ASNH 216
												SNL 216 TS	SNL 216	TSN 216 S	ASNH 216
												SNL 216 TND	SNL 216	TSN 216 ND	ASNH 216
	145	100	212	112	35	290	345	28	22	20	13,7	SNL 316 TG	SNL 519-616	TSN 316 G	ASNH 519-616
												SNL 316 TA	SNL 519-616	TSN 316 A	ASNH 519-616
												SNL 316 TS	SNL 519-616	TSN 316 S	ASNH 519-616
												SNL 316 TND	SNL 519-616	TSN 316 ND	ASNH 519-616

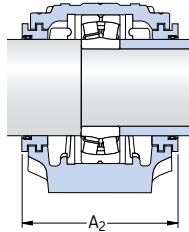


Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
d_a	d_b	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Locating rings 2 per housing	Self-aligning ball bearing	Locating rings 2 per housing
						Spherical roller bearing		Spherical roller bearing	
						roller bearing		CARB bearing	
mm		mm		mm		-			
65	75	51	120	128	190	1213 E -	FRB 14/120 -	2213 E 22213 E C 2213	FRB 10/120 FRB 10/120 FRB 10/120
	75	58	140	138	200	1313 E 21313 E	FRB 12.5/140 FRB 12.5/140	2313 22313 E -	FRB 5/140 FRB 5/140 -
70	80	61	150	143	205	1314 21314 E	FRB 13/150 FRB 13/150	2314 22314 E C 2314	FRB 5/150 FRB 5/150 FRB 5/150
75	85	56	130	133	195	1215 -	FRB 15.5/130 -	2215 E 22215 E C 2215	FRB 12.5/130 FRB 12.5/130 FRB 12.5/130
	85	65	160	158	220	1315 21315 E	FRB 14/160 FRB 14/160	2315 22315 E C 2315	FRB 5/160 FRB 5/160 FRB 5/160
80	90	58	140	138	200	1216 -	FRB 16/140 -	2216 E 22216 E C 2216	FRB 12.5/140 FRB 12.5/140 FRB 12.5/140
	90	68	170	163	218	1316 21316 E	FRB 14.5/170 FRB 14.5/170	2316 22316 E C 2316	FRB 5/170 FRB 5/170 FRB 5/170

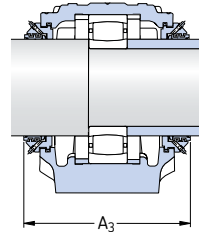
**SNL plummer block housings
for bearings with cylindrical bore**
d_a 85 – 120 mm



Double-lip seals
G design

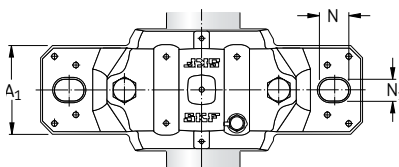
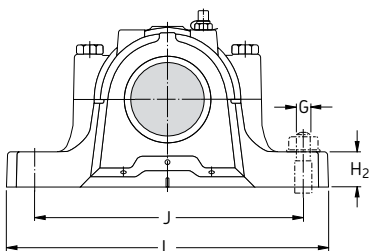


Labyrinth seals
S design



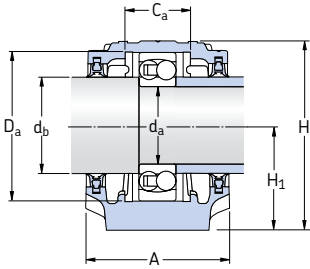
Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass kg	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	–			
85	125	90	183	95	32	260	320	28	22	20	9,50	SNL 217 TG SNL 217 TA SNL 217 TS SNL 217 TND	SNL 217 SNL 217 SNL 217 SNL 217	TSN 217 G TSN 217 A TSN 217 S TSN 217 ND	ASNH 217 ASNH 217 ASNH 217 ASNH 217
	160	110	218	112	40	320	380	32	26	24	17,6	SNL 317 TG SNL 317 TA SNL 317 TS SNL 317 TND	SNL 520-617 SNL 520-617 SNL 520-617 SNL 520-617	TSN 317 G TSN 317 A TSN 317 S TSN 317 ND	ASNH 520-617 ASNH 520-617 ASNH 520-617 ASNH 520-617
90	140	100	194	100	35	290	345	28	22	20	11,8	SNL 218 TG SNL 218 TA SNL 218 TS SNL 218 TND	SNL 218 SNL 218 SNL 218 SNL 218	TSN 218 G TSN 218 A TSN 218 S TSN 218 ND	ASNH 218 ASNH 218 ASNH 218 ASNH 218
95	175	120	242	125	45	350	410	32	26	24	22,0	SNL 319 TA SNL 319 TS SNL 319 TND	SNL 522-619 SNL 522-619 SNL 522-619	TSN 319 A TSN 319 S TSN 319 ND	ASNH 522-619 ASNH 522-619 ASNH 522-619
100	160	110	218	112	40	320	380	32	26	24	17,6	SNL 220 TG SNL 220 TA SNL 220 TS SNL 220 TND	SNL 520-617 SNL 520-617 SNL 520-617 SNL 520-617	TSN 220 G TSN 220 A TSN 220 S TSN 220 ND	ASNH 520-617 ASNH 520-617 ASNH 520-617 ASNH 520-617
	185	120	271	140	45	350	410	32	26	24	26,2	SNL 320 TA SNL 320 TS SNL 320 TND	SNL 524-620 SNL 524-620 SNL 524-620	TSN 320 A TSN 320 S TSN 320 ND	ASNH 524-620 ASNH 524-620 ASNH 524-620
110	175	120	242	125	45	350	410	32	26	24	22,0	SNL 222 TG SNL 222 TA SNL 222 TS SNL 222 TND	SNL 522-619 SNL 522-619 SNL 522-619 SNL 522-619	TSN 222 G TSN 222 A TSN 222 S TSN 222 ND	ASNH 522-619 ASNH 522-619 ASNH 522-619 ASNH 522-619
120	185	120	271	140	45	350	410	32	26	24	26,2	SNL 224 TG SNL 224 TA SNL 224 TS SNL 224 TND	SNL 524-620 SNL 524-620 SNL 524-620 SNL 524-620	TSN 224 G TSN 224 A TSN 224 S TSN 224 ND	ASNH 524-620 ASNH 524-620 ASNH 524-620 ASNH 524-620

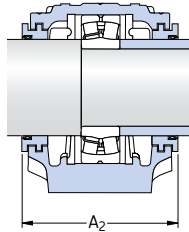


Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
d_a	d_b	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Locating rings 2 per housing	Self-aligning ball bearing Spherical roller bearing CARB bearing	Locating rings 2 per housing
mm		mm		mm		-			
85	95	61	150	143	205	1217 -	FRB 16.5/150 -	2217 22217 E C 2217	FRB 12.5/150 FRB 12.5/150 FRB 12.5/150
	95	70	180	178	238	1317 21317 E	FRB 14.5/180 FRB 14.5/180	2317 22317 E C 2317	FRB 5/180 FRB 5/180 FRB 5/180
90	100	65	160	158	220	1218 22218 E	FRB 17.5/160 FRB 12.5/160	2218 23218 CC/W33 C 2218	FRB 12.5/160 FRB 6.25/160 FRB 12.5/160
95	110	80	200	191	253	1319 21319 E	FRB 17.5/200 FRB 17.5/200	2319 22319 E -	FRB 6.5/200 FRB 6.5/200 -
100	115	70	180	178	245	1220 22220 E	FRB 18/180 FRB 12/180	2220 23220 CC/W33 C 2220	FRB 12/180 FRB 4.85/180 FRB 12/180
	115	86	215	199	260	1320 21320 E	FRB 19.5/215 FRB 19.5/215	2320 22320 E C 2320	FRB 6.5/215 FRB 6.5/215 FRB 6.5/215
110	125	80	200	191	255	1222 22222 E	FRB 21/200 FRB 13.5/200	2222 23222 CC/W33 C 2222	FRB 13.5/200 FRB 5.1/200 FRB 13.5/200
120	135	86	215	199	270	1224 22224 E	FRB 22/215 FRB 14/215	- 23224 CC/W33 C 3224	- FRB 5/215 FRB 5/215

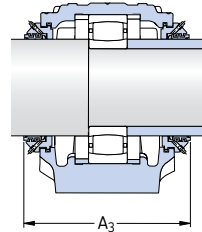
**SNL plummer block housings
for bearings with cylindrical bore**
d_a **130 – 160 mm**



Double-lip seals
G design

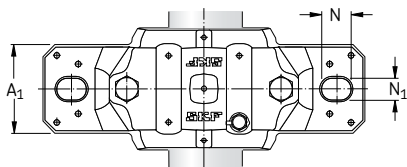
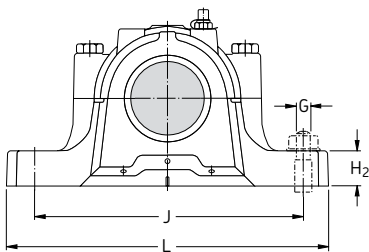


Labyrinth seals
S design



Taconite seals
ND design

Shaft d _a	Housing Dimensions										Mass	Designations Housing complete with two seals	Components Housing only	Seals	End cover
	A	A ₁	H	H ₁	H ₂	J	L	N	N ₁	G					
mm	mm										kg	–			
130	190	130	290	150	50	380	445	35	28	24	33,0	SNL 226 TG	SNL 526	TSN 226 G	ASNH 526
												SNL 226 TA	SNL 526	TSN 226 A	ASNH 526
												SNL 226 TS	SNL 526	TSN 226 S	ASNH 526
												SNL 226 TND	SNL 526	TSN 226 ND	ASNH 526
140	205	150	302	150	50	420	500	42	35	30	40,0	SNL 228 TG	SNL 528	TSN 228 G	ASNH 528
												SNL 228 TA	SNL 528	TSN 228 A	ASNH 528
												SNL 228 TS	SNL 528	TSN 228 S	ASNH 528
												SNL 228 TND	SNL 528	TSN 228 ND	ASNH 528
150	220	160	323	160	60	450	530	42	35	30	49,0	SNL 230 TG	SNL 530	TSN 230 G	ASNH 530
												SNL 230 TA	SNL 530	TSN 230 A	ASNH 530
												SNL 230 TS	SNL 530	TSN 230 S	ASNH 530
												SNL 230 TND	SNL 530	TSN 230 ND	ASNH 530
160	235	160	344	170	60	470	550	42	35	30	55,0	SNL 232 TG	SNL 532	TSN 232 G	ASNH 532
												SNL 232 TA	SNL 532	TSN 232 A	ASNH 532
												SNL 232 TS	SNL 532	TSN 232 S	ASNH 532
												SNL 232 TND	SNL 532	TSN 232 ND	ASNH 532



Shaft		Bearing seating		Width across seal		Appropriate bearings and locating rings			
d_a	d_b	C_a	D_a	A_2	A_3	Self-aligning ball bearing	Locating rings 2 per housing	Spherical roller bearing CARB bearing	Locating rings 2 per housing
mm	mm	mm	mm	mm	mm	–	–	–	–
130	145	90	230	208	275	1226 22226 E	FRB 22/230 FRB 13/230	23226 CC/W33 C 2226	FRB 5/230 FRB 13/230
140	155	98	250	223	290	– 22228 CC/W33	– FRB 15/250	23228 CC/W33 C 2228	FRB 5/250 FRB 15/250
150	165	106	270	241	310	– 22230 CC/W33	– FRB 16.5/270	23230 CC/W33 C 2230	FRB 5/270 FRB 16.5/270
160	175	114	290	254	325	– 22232 CC/W33	– FRB 17/290	23232 CC/W33 C 3232	FRB 5/290 FRB 5/290

Large SNL plummer block housings

The large SNL plummer block housings (→ **fig. 1**) incorporate all the wide experience gained by SKF with the smaller SNL housings (→ **page 1033**) and extend the range to bigger shafts. These housings represent a further development of the SD housings.

Large SNL plummer block housings are intended to take

- spherical roller bearings in the 230, 231 and 232 series
- CARB toroidal roller bearings in the C 30, C 31 and C 32 series

as standard, but can be used for bearings in the 22, 23 and 40 Dimension Series too. Please contact the SKF application engineering service for further information.

The large SNL housings are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with 115 to 500 mm as well as 5 ¹⁵/₁₆ to 19 1/2 inch diameter
- bearing on stepped shafts and cylindrical seatings with 130 to 530 mm diameter.

Seals

- Labyrinth seals
- Taconite heavy-duty seals
- Oil seals

Lubrication

- Grease lubrication
- Oil lubrication

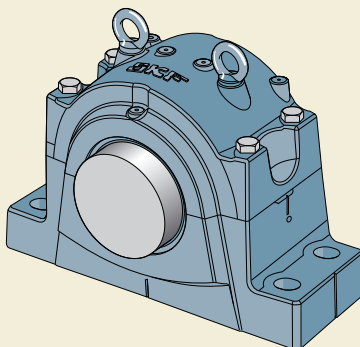
Materials

- Grey cast iron
- Spheroidal graphite cast iron

Further information

Further information can be found in the product brochure “SNL 30 and SNL 31 plummer block housings solve the housing problems” or the “SKF Interactive Engineering Catalogue” on CD-ROM or online at www.skf.com.

Fig. 1



SONL plummer block housings

SONL plummer block housings (→ **fig. 2**) are specifically designed for oil lubrication and are particularly suitable for bearing arrangements, where speed and operating temperatures are high. These housings represent a further development of the earlier SOFN housings with which they are dimensionally interchangeable and which they replace.

The split SONL plummer block housings are intended for

- spherical roller bearings in the 222 series
- CARB toroidal roller bearings in the C 22 series.

They are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with 75 to 220 mm diameter
- bearing on stepped or smooth shafts and cylindrical seatings with 85 to 240 mm diameter.

The earlier SOFN plummer block housings for bearings in the 23 Dimension Series are not replaced by SONL housings but will still be available on request for replacement purposes.

Seals

- Labyrinth seals

Lubrication

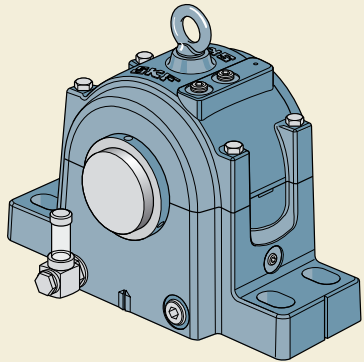
- Oil lubrication with pick-up ring
- Circulating oil lubrication

Materials

- Grey cast iron
- Spheroidal graphite cast iron

Further information

Further information can be found in the product brochure "SONL plummer block housings – designed for oil lubrication" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.



SDG plummer block housings

SDG plummer block housings (→ **fig. 3**) have been developed for large bearing arrangements. These split housings can be used for

- spherical roller bearings and CARB bearings in several dimension series.

The housings are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with 125 to 530 mm diameter
- bearing on adapter sleeve and stepped shafts with cylindrical seatings with 125 to 530 mm diameter
- bearing on withdrawal sleeve and stepped shafts with cylindrical seatings with 135 to 600 mm diameter
- bearing on stepped shafts and cylindrical seatings with 140 to 710 mm diameter.

Seals

- Felt seals
- Felt seals with additional V-ring
- Labyrinth seals with inner felt seal

Lubrication

- Grease lubrication

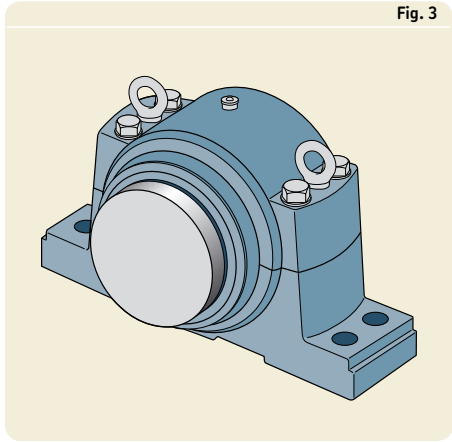
Materials

- Grey cast iron
- Spheroidal graphite cast iron
- Cast steel

Further information

Further information can be found in the SKF catalogue “Bearing housings” or the “SKF Interactive Engineering Catalogue” on CD-ROM or online at www.skf.com.

Fig. 3



SAF pillow (plummer) block housings

SAF pillow (plummer) block housings (→ **fig. 4**) were specifically designed for shafts with inch dimensions. The split housings can be used for

- self-aligning ball bearings in the 12 and 13 series
- spherical roller bearings in the 222, 223, and 230 series
- CARB bearings in the C 22, C 23 and C 30 series.

The housings are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with $1 \frac{3}{16}$ to $10 \frac{7}{16}$ inch diameter
- bearing on stepped inch shafts and metric cylindrical seatings with 40 to 220 mm diameter.

Seals

- Labyrinth seals
- Labyrinth seals with inner radial shaft seal
- Radial shaft seals
- Taconite heavy-duty seals

Lubrication

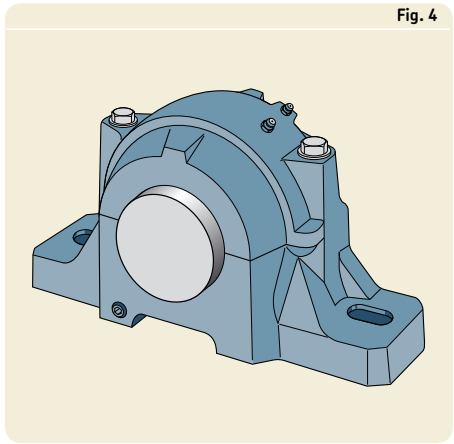
- Grease lubrication
- Oil lubrication

Materials

- Grey cast iron
- Spheroidal graphite cast iron
- Cast steel

Further information

Further information can be found in the SKF catalogue "Product Guide" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.



SDAF pillow (plummer) block housings

SDAF pillow (plummer) block housings (→ fig. 5) were specifically designed for applications with inch shafts where heavy thrust loads and/or shock loads require a housing of exceptionally sturdy construction. The split housings can be used for

- spherical roller bearings in the 222 and 223 series
- CARB bearings in the C 22 and C 23 series.

The housings are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with $2\frac{15}{16}$ to $7\frac{15}{16}$ inch diameter
- bearing on stepped inch shafts and metric cylindrical seatings with 85 to 220 mm diameter.

Seals

- Labyrinth seals
- Labyrinth seals with inner radial shaft seal
- Radial shaft seals
- Taconite heavy-duty seals

Lubrication

- Grease lubrication
- Oil lubrication

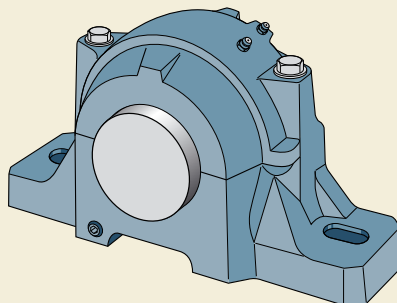
Materials

- Grey cast iron
- Cast steel

Further information

Further information can be found in the SKF catalogue "Product Guide" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.

Fig. 5



SBD plummer block housings

One-piece SBD plummer block housings (→ fig. 6) are able to accommodate heavy loads not only acting towards the support surface, but also in other directions. They can be used for

- spherical roller bearings in the 230, 231, 222 and 232 series
- CARB bearings in the C 30, C 31, C 22 and C 32 series.

The housings are designed for bearing arrangement types

- bearing on adapter sleeve and smooth shafts with 90 to 400 mm diameter
- bearing on adapter sleeve and stepped shafts with cylindrical seatings with 90 to 400 mm diameter
- bearing on stepped shafts and cylindrical seatings with 100 to 420 mm diameter.

Seals

- Labyrinth seals

Lubrication

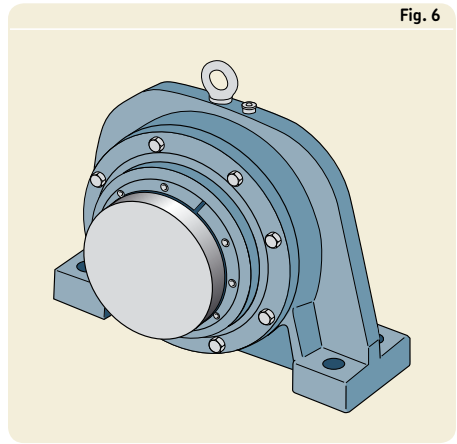
- Grease lubrication

Materials

- Cast steel
- Grey cast iron
- Spheroidal graphite cast iron

Further information

Further information can be found in the SKF catalogue "Bearing housings" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.



TVN plumber block housings

One-piece TVN housings (→ **fig. 7**) were originally designed for use on light rail-bound trucks but may be used instead of plumber block housings. The one-piece design is stiffer than a horizontally split design. They accommodate

- self-aligning ball bearings in the 12 and 13 series
- spherical roller bearings in the 213 series.

The housings are designed for bearing arrangement type

- bearing on stepped shafts and cylindrical seatings with 20 to 75 mm diameter.

Seals

- Felt seals

Lubrication

- Grease lubrication

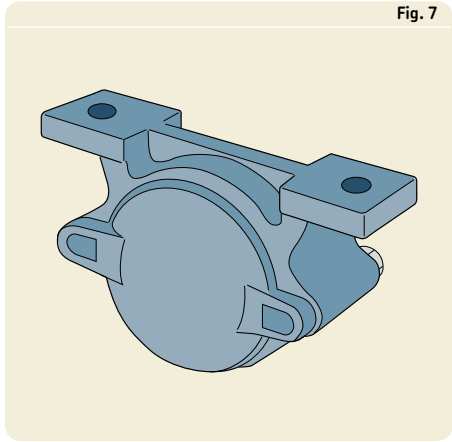
Material

- Grey cast iron

Further information

Further information can be found in the SKF catalogue "Bearing housings" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.

Fig. 7



TN plummer block housings

One-piece TN housings (→ **fig. 8**) are normally used for less demanding applications. They accommodate self-aligning ball bearings with extended inner ring in the 112 series for shaft diameters from 20 to 60 mm.

Seals

- Felt seals

Lubrication

- Grease lubrication

Material

- Grey cast iron

Further information

Further information can be found in the SKF catalogue “Bearing housings” or the “SKF Interactive Engineering Catalogue” on CD-ROM or online at www.skf.com.

I-1200(00) flanged housings

Flanged housings in the I-1200(00) series (→ **fig. 9**) are normally used for less demanding applications. They accommodate self-aligning ball bearings with extended inner ring in the 112 series for shaft diameters from 20 to 60 mm.

Seals

- Felt seals

Lubrication

- Grease lubrication

Material

- Grey cast iron

Further information

Further information can be found in the SKF catalogue “Bearing housings” or the “SKF Interactive Engineering Catalogue” on CD-ROM or online at www.skf.com.

Fig. 8

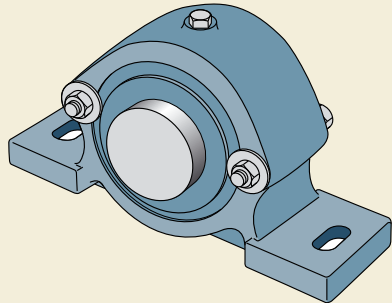
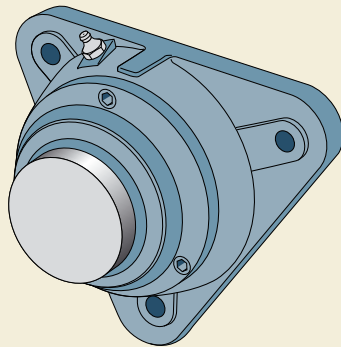


Fig. 9



7225(00) flanged housings

Flanged housings in the 7225(00) series are produced in two designs depending on size (→ **fig. 10**). The smaller sizes have a triangular form (**a**) and the larger sizes have a square form (**b**). They can be used for

- self-aligning ball bearings in the 12 and 22 series
- spherical roller bearings in the 222 series
- CARB bearings in the C 22 series.

The housings are designed for bearing arrangement type

- bearing on adapter sleeve and smooth shafts with 20 to 100 mm diameter.

Seals

- Felt seals

Lubrication

- Grease lubrication

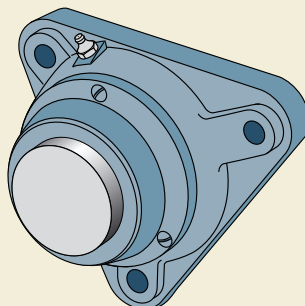
Material

- Grey cast iron

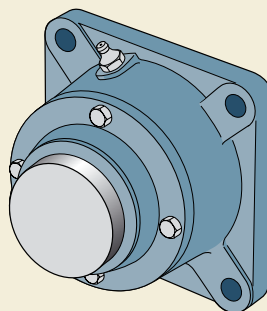
Further information

Further information can be found in the SKF catalogue "Bearing housings" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.

Fig. 10



a



b

THD take-up housings

THD take-up housings (→ **fig. 11**) are specially designed for belt conveyors. They can be used for

- spherical roller bearings in the 230, 231, 232 and 222 series
- CARB bearings in the C 30, C 31, C 32 and C 22 series.

The housings are designed for bearing arrangement type

- bearing on adapter sleeve and smooth shafts with 50 to 400 mm diameter.

Seals

- Labyrinth seals

Lubrication

- Grease lubrication

Materials

- Cast steel
- Grey cast iron
- Spheroidal graphite cast iron

Further information

Further information can be found in the SKF catalogue "Bearing housings" or the "SKF Interactive Engineering Catalogue" on CD-ROM or online at www.skf.com.

Fig. 11

