Important general data:

Shaft	Direct mounting	Depends on the application
	Sleeve mounting	h9/IT5
Supporting	Flatness	IT7 - IT8
	Surface roughness	R_a < 12,5 µm
Painting system	Alkyd RAL 9005 Pigment black	
	Thickness	80µm
Coating	The colour is possible to coat. **Important to notice**.The colour is resistant to normally used low-alkalic detergents. Follow the recommendations from the detergent supplier.	

Mounting of bearing reference

SKF Bearing Maintenance Handbook (publication 4100 E) or SKF General Catalogue (publication 5000 E).

Table 1

Housing	**Cap bolts 8.8 Tightening torque**		**Attachment bolts 8.8 Tightening torque**	
		Nm		**Nm**
SNL 3036, 3038, 3134, 3136	M 24x140	350	M 24	665
SNL 3040, 3138	M 24x150	350	M 24	665
SNL 3044, 3048, 3140, 3144	M 24x160	350	M 30	1 310
SNL 3052, 3148	M 30x180	400	M 30	1 310
SNL 3056, 3060, 3152, 3156	M 30x200	400	M 36	2 280
SNL 3064, 3068, 3072, 3160, 3164	M 30x220	400	M 36	2 280
SNL 3076, 3080, 3084	M 36x240	600	M 36	2 280
SNL 3168, 3172, 3176	M 36x240	600	M 36	2 280
SNL 3088, 3180	M 36x240	600	M 42	3 640
SNL 3092, 3096, 30/500, 3184, 3188	M 42x280	850	M 42	3 640
SNL 3192	M 42x300	850	M 42	3 640
SNL 30/530, 3196	M 42x320	850	M 48	5 450

Table 2 Recommended grease levels for SNL plummer blocks housings of series 30 and 31.

Housing	**Grease quantities**		**Housing**	**Grease quantities**	
Designation	First fill[1)]	Relub-rication	Designation	First fill[1)]	Relub-rication
-	kg		-	kg	
SNL 3036	1,2	0,10	SNL 3134	1,1	0,12
SNL 3038	1,5	0,11	SNL 3136	1,4	0,14
SNL 3040	2,0	0,13	SNL 3138	1,8	0,17
SNL 3044	2,7	0,15	SNL 3140	2,3	0,19
SNL 3048	3,0	0,17	SNL 3144	2,7	0,22
SNL 3052	3,9	0,21	SNL 3148	3,4	0,26
SNL 3056	4,9	0,22	SNL 3152	4,3	0,32
SNL 3060	5,2	0,27	SNL 3156	4,4	0,34
SNL 3064	7,0	0,29	SNL 3160	6,2	0,40
SNL 3068	8,7	0,35	SNL 3164	7,7	0,48
SNL 3072	10,9	0,36	SNL 3168	9,4	0,55
SNL 3076	10,9	0,38	SNL 3172	9,7	0,58
SNL 3080	11,7	0,44	SNL 3176	9,6	0,60
SNL 3084	11,8	0,47	SNL 3180	12,2	0,65
SNL 3088	14,4	0,51	SNL 3184	14,9	0,78
SNL 3092	18,8	0,55	SNL 3188	16,2	0,81
SNL 3096	18,5	0,58	SNL 3192	17,4	0,91
SNL 30/500	20,0	0,60	SNL 3196	17,2	0,98
SNL 30/530	21,5	0,72			

[1)] Fills approximately 40 % of the free space in the housing.

K-nummer: 603 version 2
SKF Mekan AB 2004

Mounting instruction for SNL 30 and SNL 31 housings with taconite seals



Mounting SNL housings with taconite seals.

Before starting installation work, the following instructions should be carefully read.

1. Ensure that the surface roughness of the support surface $R_a \leqq 12.5$ μm. The flatness (planicity) tolerance should be to IT7.
Check that the mounting surface is clean. If shims are used the whole surface must be covered by the shims. The mounting surface (frame) must be designed in a proper way considering actual load, vibrations and settings.

2. Ensure that the environment is clean. Check the dimensional and form accuracy of the shaft seating. The shaft should be machined to tolerance h9/IT5.

3. If the bearing is mounted on an adapter sleeve, determine the position of the housing.

4. The grease nipple arranged at one side of the housing cap (for improved lubrication) should always be at the side opposite to the sleeve nut. It is necessary to consider the complete housing as the base and cap will only fit together as supplied.

5. Positioning the housing base on the support surface. Fit the attachment bolts but do not tighten them.

6. Slide the parts of the first seal to the correct position on the shaft. The lip of the V-ring should point towards the bearing. Do not tighten the grub screws.

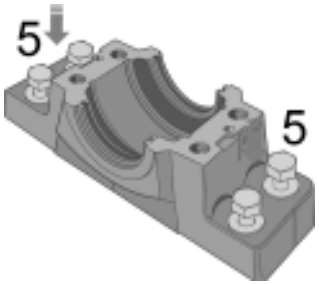
7. Mount the bearing on the shaft – either directly on a stepped shaft or using an adapter sleeve.

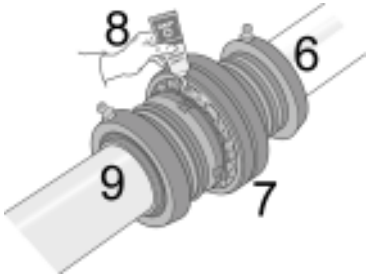
8. Completely fill the bearing with grease. The housing base should be filled with grease up to the markings in each corner inside the base (see **table 2**).

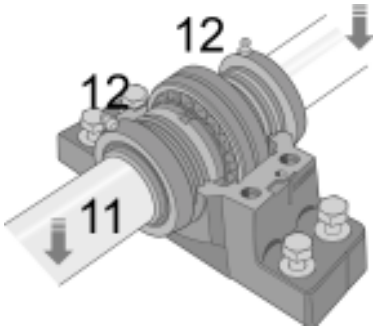
9. Mount the second seal according to point 6. If the housing is to be used at a shaft end, the second seal is omitted and an end cover inserted in the housing base instead.

10. Check that the O-ring is in the correct position on the seal outside diameter.

11. Lay the shaft with bearing and seals in the housing base taking care that the O-rings are not damaged.

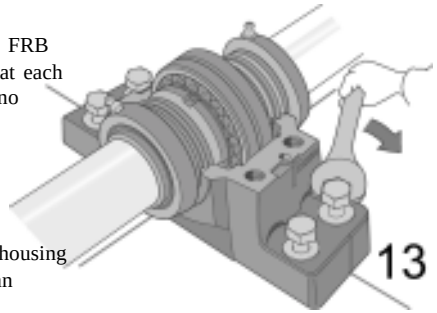






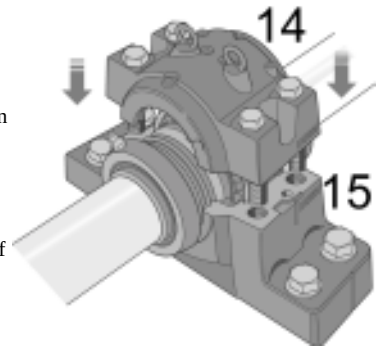
12. When locating bearing arrangements always one (or 2 or 3 FRB rings when more than 2 are used) locating ring shall be placed at each side of the bearing. When non-locating bearing arrangements no locating rings are placed in the housing.

NB. CARB bearings as always are mounted with locating rings, although these are always non-locating.



13. Carefully align the housing base. Vertical markings on the housing base ends and side faces, showing the bearing seating centre, can facilitate this. Then lightly tighten the attachment bolts.

14. Then place the housing cap over the base, taking care that the O-rings are not damaged, and tighten the cap bolts (to join cap and base), with help of a torque wrench, to the torque specified in **table 1**. The cap and base of one housing are not interchangeable with those of other housings. The cap and base should be checked to see that they bear the same identification.



15. Check the alignment, to minimise misalignment and fully tighten the attachment bolts in the housing base with help of a torque wrench. Recommended tightening torques are given in **table 1**.

16. Adjust the flingers to the correct position and tighten the grub screws. The clearance in the seal must exceed the axial movement of the bearing.

17. Finally, before the first test run, rotate the shaft and supply grease via the nipple unit it exudes from the labyrinth rings. The same grease as that used for the bearing should also be used to lubricate the labyrinth rings.

18. After one day the tightening torque of the cap bolts and the attachment bolts shall be checked.

