



SNOL

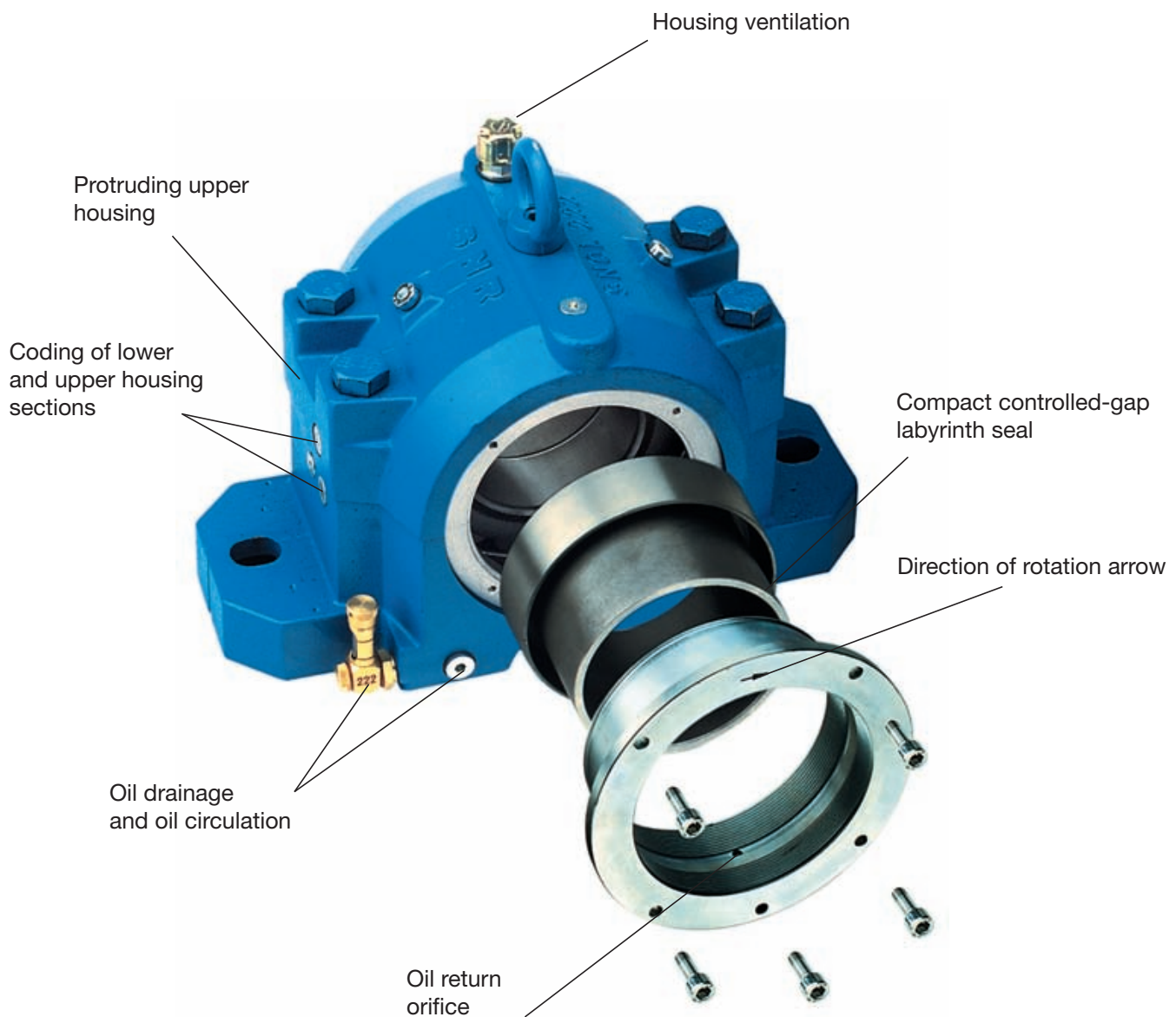
Innovation in Performance and Economy

SNR - Industry





SNOL oil-lubricated plummer block for rolling bearings



SNOL oil-lubricated plummer block for rolling bearings excels on account of its functionality at low weights.

Protruding upper housing

To ensure that moisture cannot penetrate into the housing through the mold seam, the upper housing section juts out over the lower section. This prevents condensation from entering the bearing housing. For several years now SNR has achieved excellent results with this system in grease-lubricated SNB housings.

Coding of lower and upper housing sections

Both upper and lower housing sections are given the same coding label to prevent mixing when assembling more than one plummer block.

Oil drainage and oil circulation

The SNOL comes with four oil-drainage bores on the side of the housing. These holes and the four holes at the front can also be used for oil circulation.

Alternative oil-drainage options

In the lower section of the housing a position has been marked with a graining with which an additional oil-drainage bore can be made.

Housing ventilation

The housing is ventilated under operation using the latest technology. Contamination such as sand and dust are prevented from entering the housing. When filling the housing the ventilator has to be removed first.

Compact controlled-gap labyrinth seal

Thanks to our long-standing experience in the area of oil-lubricated bearing housing design we have created a reliable and effective sealing system.

Oil leakage and moisture penetration are thus prevented through the use of various sealing threads in the side cover.

Direction of rotation arrow

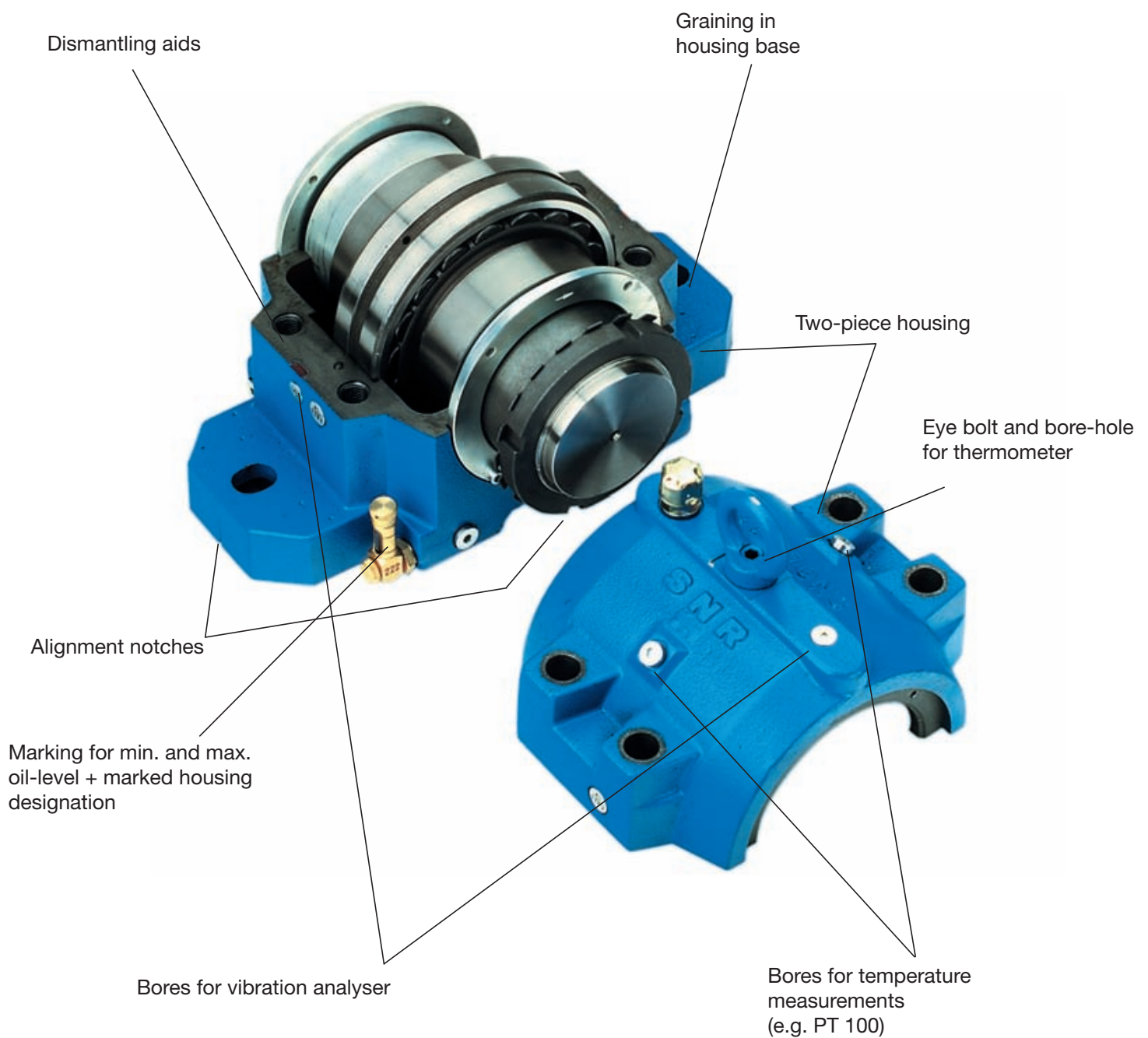
As the function of the sealing threads are dependent on the direction of rotation, they are all marked with direction of rotation arrows – with the exception of the interchangeable lid.

Oil return orifice

This orifice enables any oil which has penetrated this far to be returned to the interior of the housing.



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Graining in housing base

Graining has been provided in the base on both sides of the housing in order to be able to locate the housing to the bottom section or to mount it using four instead of two bolts (e.g. to an I-beam) .

Dismantling aids

In order to make it easier to separate the housing sections, small recesses have been cast in both sides of the lower section.

Alignment notches in base

SNR has cast markings on all four sides of the housing in the base in order to make it easier to align the housing when assembling it.

Oil-level indicator

The individual minimum and maximum oil-level markings made on the oil-level indicator enable the oil level to be easily checked during operation.

Engraved housing identification

The oil-level indicators can be assigned to each individual SNOL, as each display is marked with the respective housing model. Thus in case of replacement it is a simple task to determine which display is at issue.

Corrosion protection

The housing shell is painted on both the inside and outside. For the various detachable components SNR has used elements which are rust proof, or corrosion protected by means of a dual chromate coating.

Two-piece housing

The housing has been split in two to facilitate an ideal mounting process. The pins inserted into the interface serve to prevent any incorrect mounting of the upper and lower sections. The upper section is bolted to the lower section using four hexagonal screws and tightened to a specified torque.

Eye bolt and temperature measurement

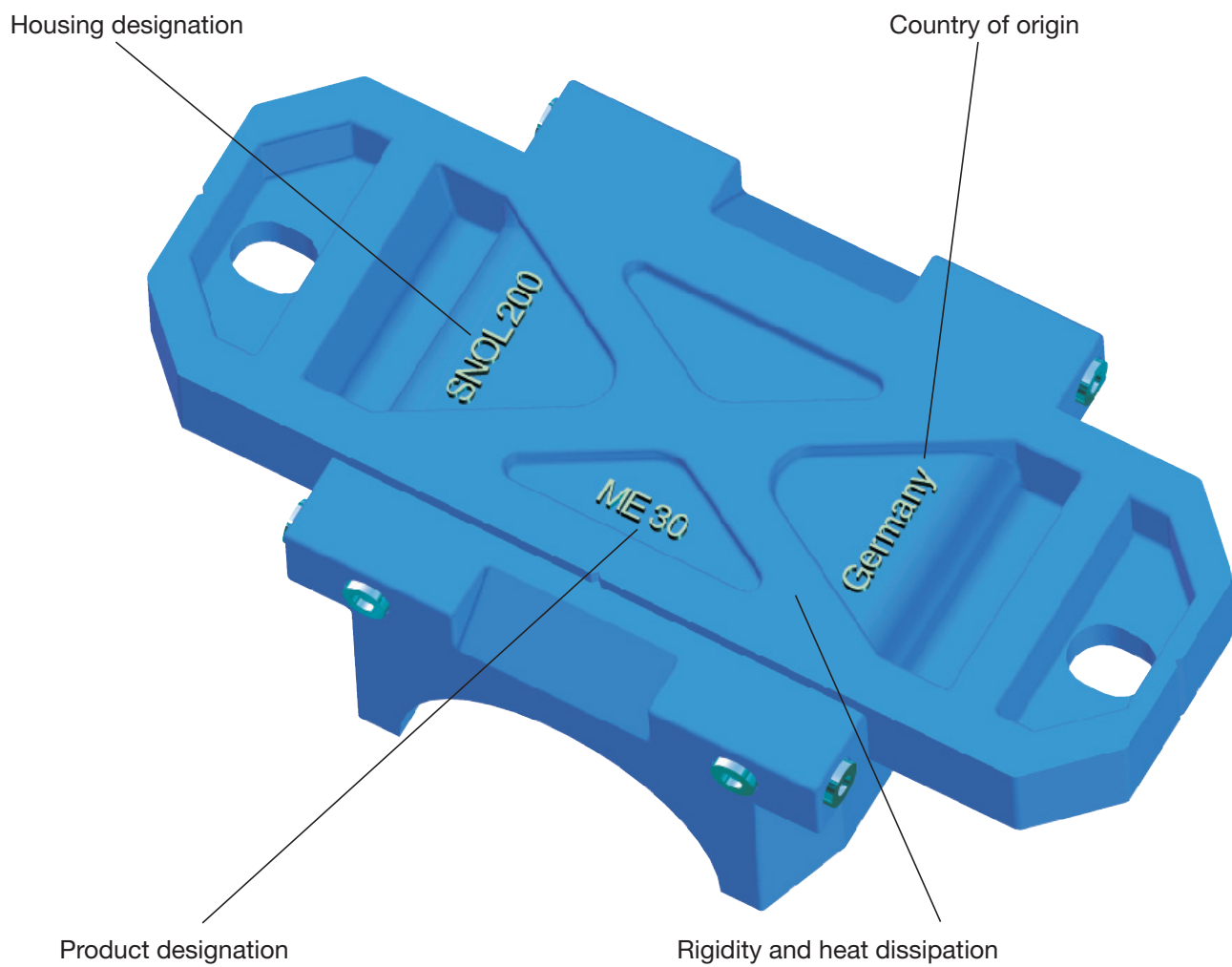
To better facilitate ease of handling SNR has mounted an eye bolt onto the housing from a size of SNOL 220 and larger. If this is removed, a temperature gauge (e.g. straight-enclosed scale thermometer) can be screwed onto the housing.

Bores for vibration analyser and temperature measurements

Vibration analysers can be mounted at the designated positions either horizontally or vertically, in order to measure vibrations. The gate system mounted to the upper section can also be used to install temperature gauges (e.g. PT 100). These devices also serve to provide valuable information on oil and bearing conditions.



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Housing designation

All SNOL housings are marked below the base with the series and size of the housing.

Country of origin

SNR bearing housings are developed and produced in Germany.

Rigidity and heat dissipation

Tests performed have demonstrated the efficiency of the SNOL series' optimized base design with regard to housing rigidity and dissipation of operating heat.

Product designation

For internal purposes SNR has provided all housings with a code number.

SNOL housings in the following most important sizes can be interchanged with the familiar SN plummer blocks for rolling bearings;

- shaft diameter
- shaft center height
- spacing of holes for fastening bolts

We have also endeavoured to comply with the SN housings series for the other dimensions.

With the following exceptions this is generally the case:

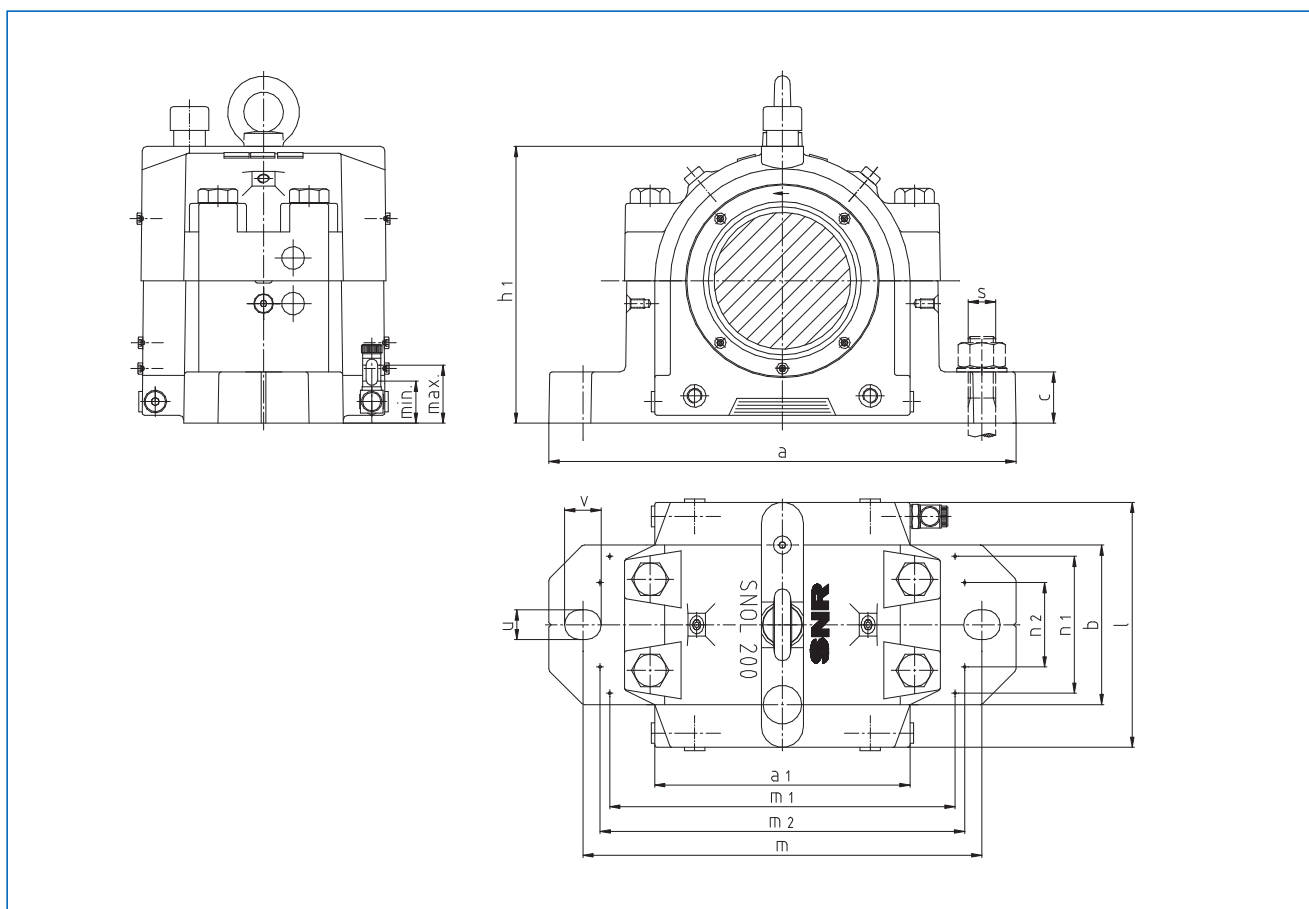
1. Due to the fact that a large oil volume is critical for oil-lubricated bearing housings and the sealing system is more complicated than that for grease-lubricated housings, the width of the SNOL has been enlarged.
2. In individual cases, the overall height of the housing has to be adapted to the requirements of the specified measuring equipment.

More detailed information is available in the following lists of dimensions on pages 8 and 9.



SNOL oil-lubricated plummer block for rolling bearings

Excellent performance under light loads

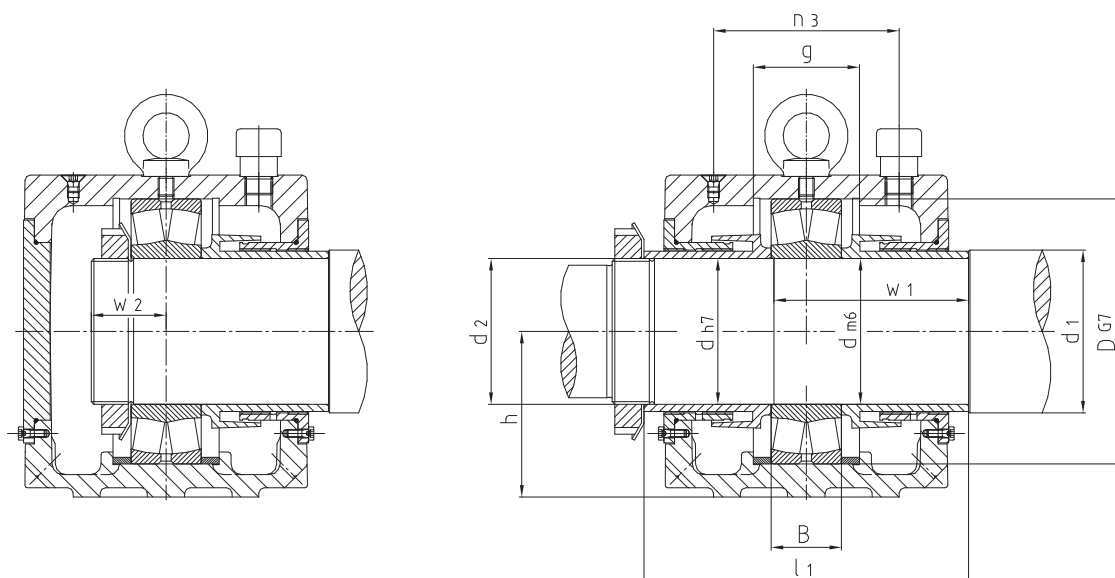


Dimensions in mm																											
d	d ₁ min.	d ₂	B	D	a	a ₁	b	c	g	h	h ₁	l	l ₁	m	m ₁	m ₂	n ₁	n ₂	n ₃	s	u	v	w ₁	w ₂			
60	70	M 60 x 2	28	110	255	140	80	30	40	70	139	140	162	210	170	200	52	40	90	M16	18	23	94	29			
70	80	M 70 x 2	31	125	275	150	90	30	44	80	158	150	173	230	190	220	60	48	100	M16	18	23	101	32			
80	90	M 80 x 2	33	140	315	155	95	32	50	95	179	155	183	260	210	260	65	52	100	M20	22	27	107	36			
90	103	M 90 x 2	40	160	345	185	115	35	65	100	196	185	220	290	240	280	95	58	120	M20	22	27	129	41			
100	113	M100 x 2	46	180	380	202	125	40	70	112	219	200	234	320	270	300	105	66	130	M24	26	32	139	46			
110	123	M110 x 2	53	200	410	224	140	45	80	125	243	215	252	350	303	320	120	74	140	M24	26	32	151	51			
120	138	M120 x 2	58	215	410	244	140	45	86	140	271	225	263	350	313	330	120	74	140	M24	26	32	159	55			
130	148	M130 x 2	64	230	445	250	145	50	90	150	290	230	266	380	340	370	125	80	160	M24	28	35	163	59			
140	160	M140 x 2	68	250	500	270	160	50	98	150	302	250	290	420	360	400	140	92	170	M30	35	42	177	62			

The construction of the plummer blocks is constantly developing.
For this reason we reserve for ourselves the introduction of technical improvement at any time.

SNOL oil-lubricated plummer block for rolling bearings

Excellent performance under light loads



Design: A

Design: B

Parts of application

Code	Bearing	Locating rings	Locknuts	Lock washers	Oil-level	Oil-quantity	Weight
					in operation	incl. bearing	incl. bearing
		2 pieces			min. - max.	approx. ml	approx. kg
SNOL 212	22212 J30	FR 110 / 6	KM 12	MB 12	22 - 28	100	–
SNOL 214	22214 J30	FR 125 / 6.5	KM 14	MB 14	25 - 31	145	–
SNOL 216	22216 J30	FR 140 / 8.5	KM 16	MB 16	34 - 39.5	180	18.5
SNOL 218	22218 J30	FR 160 / 12.5	KM 18	MB 18	31.5 - 36.5	250	–
SNOL 220	22220 J30	FR 180 / 12	KM 20	MB 20	34 - 41	360	39
SNOL 222	22222 J30	FR 200 / 13.5	KM 22	MB 22	37 - 51	580	50
SNOL 224	22224 J30	FR 215 / 14	KM 24	MB 24	45 - 53	620	65.5
SNOL 226	22226 J30	FR 230 / 13	KM 26	MB 26	49 - 58	650	–
SNOL 228	22228 J30	FR 250 / 15	KM 28	MB 28	40 - 56	730	–

It is also possible to deliver SNR plummer blocks as mounted units with shaft.
In this case, we would require the dimensions of your contacting parts.



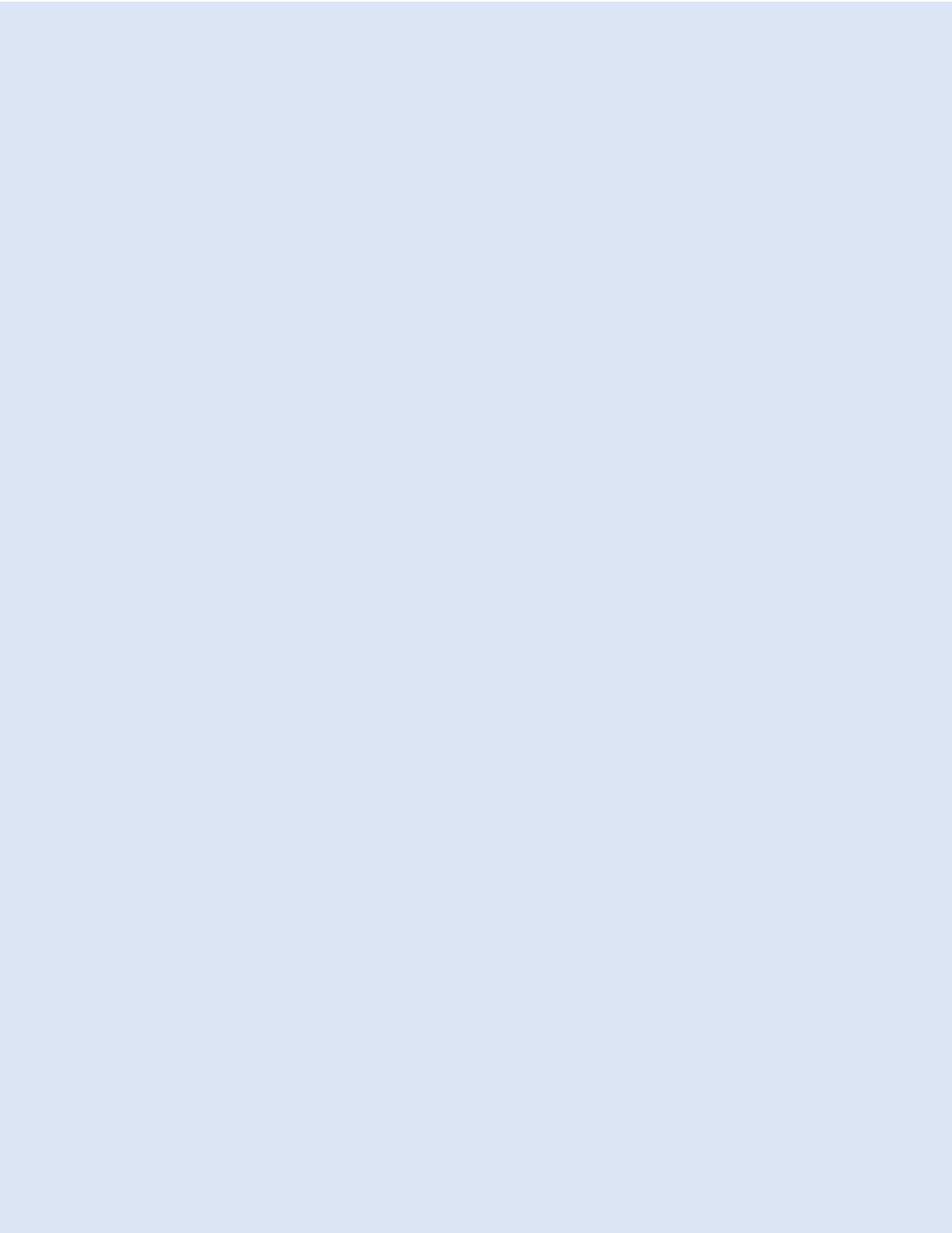
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SNR is not only an expert in all matters relating to anti-friction bearing technology, but also demonstrates with this housing series that successful industrial design is possible in the area of transmission engineering.

The main advantages once again at a glance:

- interchangeability – in most cases with the grease-lubricated SNB plummer blocks for rolling bearings
- significantly greater oil volume than in correspondingly-equipped SN housings
- optimized sealing system
- considerably more cost effective than previous oil-bearing housings
- versatile number of connection options for various measuring and monitoring equipment

Notes



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