

SN 30 / 31 SERIES BEARING HOUSINGS

SN 30 Series is developed to accommodate bearing type 23000CCK and 23100K. Overall design of this series nearly match with SNA series, but suitable changes are made as needed. There are many additional features in this series. For same size of shaft diameter, it is possible to use lighter bearing in standard SN 500 series, however it not possible to take full overall advantage. To offer a better solution, a separate SN 30 series is developed which are best suitable for 230...CCK /231..K series of bearings.

TECHNICAL DETAIL AND PRODUCT FEATURE

- Construction of SN 30/31 series is improved with overall design. One broad rib provided in center of base cavity. On top of cap one rib is provided to add strength to housings of this series. SN30/31 Series is horizontally split type bearing housing.
- Shaft diameter 110 mm to 260 mm is the limiting size range for suitable 230..CCK bearing and shaft diameter 100 mm to 170 mm is limiting size for 231..K series bearing, both series having tapered bore for these series.



SN 30 / 31 SERIES BEARING HOUSINGS

TECHNICAL DETAIL AND PRODUCT FEATURE

- For located bearing option in axial direction, the provision for locating ring is available.
- Suitable only for grease lubrication.
- A grease nipple is provided suitably on top for relubrication. The location of grease nipple will be in center of cap width, when W33 type bearing (which is having Annular Groove inside) is used. For other bearings, the grease nipple is fitted on sides.
- For SN 30/31 series following choices of seal are available:
 - Felt Seal : TC (with felt collar and O' Cord)
 - Labyrinth Seal : TS
- For removing dirty grease during maintenance, a drain hole with Plug is provided on pads on both sides at bottom.
- For shaft end option in housing, provision for an End Cover is made and designated by prefix A with shaft seal type: e.g. TC with end cover : ATC or TS with end cover: ATS etc
- Two dimensional Series are available in SN 30/31 housings:
 - SN 3000 - suitable for bearing with adapter sleeve 230..CCK
 - SN 3100 - suitable for bearing with adapter sleeve 231.. K
- Material for SN 30/31series:

Following options are available, which allow user to select his suitability depending upon the loading condition for bearing housing.

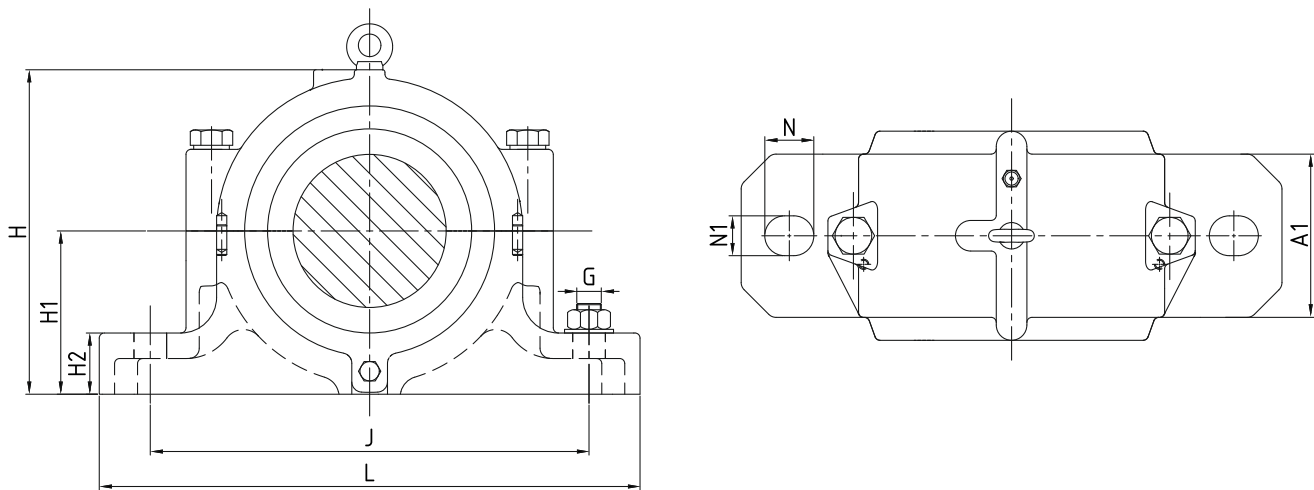
 - a. Graded Cast Iron: Gr FG 260 (IS 210)
 - b. Cast Steel: Gr 230-450 (IS 1030)
 - c. SG (Ductile) Iron: Gr 400/15 (IS 1865)
- In case of specific requirement, two or four drilled foundation holes (instead of standard two oval holes) can be provided which gives additional rigidity to bearing housing installation. Such provisions are used where there is heavy vibration or severe loading condition in bearing operation. For such requirement, customer should use the following suffix with bearing housing size code. Refer Table for foundation holes size and center distances.
 - MS1 - Two foundation slots
 - MS2 - Four foundation slots
- For extremely heavy load: SSND series with solid base, in Ductile Iron material with four foundation slots are available.
- The overall fitment dimensions of SN 30/31 Series conform to International standard ISO 113; 2010.



Isometric View

SN 3000-3100 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves



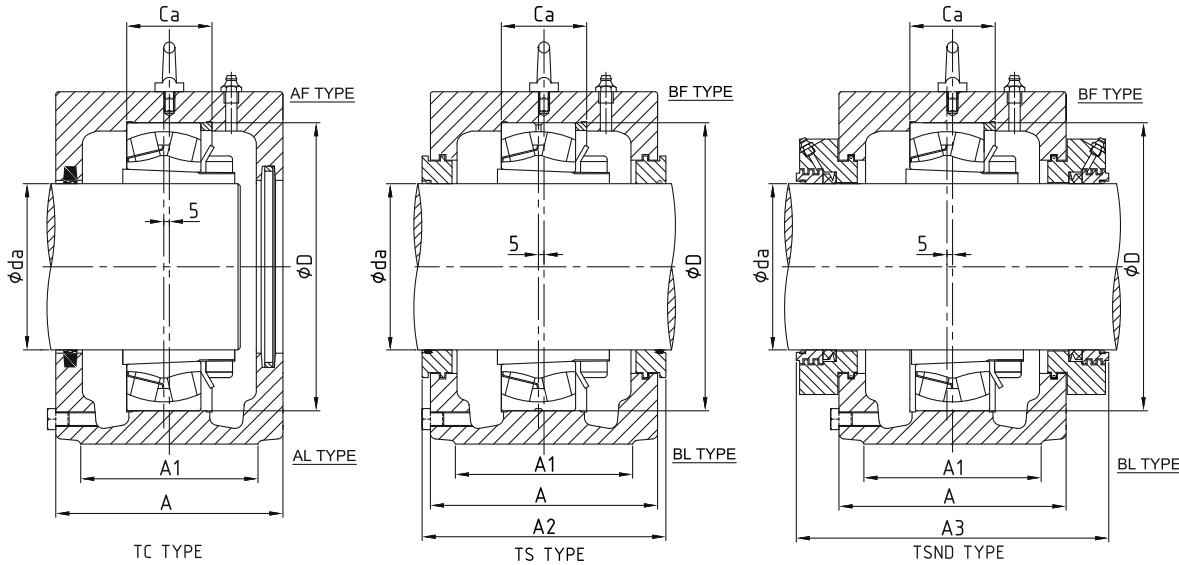
BF TYPE-Through Shaft, Located Bearing
BL TYPE-Through Shaft, Non-Located Bearing

Plummer Block SN-3028 and above are supplied with eye bolt on cap

Plummer Blocks Designation	Shaft Dia da	Dimension in MM													
		L	J	H2	H1	H	A	A1	A2	A3	Ca	N	N1	G	D
SN 3022	100	345	290	35	112	209	145	100	163	220	65	27	22	20	170
SN 3024	110	380	320	40	112	215	150	110	165	220	56	36	28	24	180
SN 3026	115	410	350	45	125	239	160	120	175	248	62	36	28	24	200
SN 3028	125	410	350	45	140	260	170	120	185	255	63	36	28	24	210
SN 3030	135	445	380	50	150	286	180	130	195	264	66	36	28	24	225
SN 3032	140	460	390	50	150	297	190	130	205	270	70	36	28	24	240
SN 3034	150	530	450	60	160	318	205	160	220	272	77	48	35	30	260
SN 3036	160	550	470	60	170	338	210	160	225	280	84	48	35	30	280
SN 3038	170	550	470	60	170	346	220	160	245	290	85	48	35	30	290
SN 3040	180	610	515	60	180	366	235	170	250	295	92	48	35	30	310
SN 3044	200	690	580	70	200	401	255	190	270	315	100	50	42	36	340
SN 3048	220	720	610	75	210	422	265	200	280	355	102	50	42	36	360
SN 3052	240	820	680	80	240	472	285	220	300	374	114	70	48	42	400
SN 3056	260	860	720	80	250	495	295	230	310	384	116	70	48	42	420
SN 3122	100	380	320	40	112	217	150	110	170	-	66	36	28	24	180
SN 3124	110	410	350	45	125	240	165	120	185	-	72	36	28	24	200
SN 3126	115	410	350	45	140	260	170	120	190	-	74	36	28	24	210
SN 3128	125	445	380	50	150	286	180	130	200	-	78	36	28	24	225
SN 3130	135	500	420	50	150	295	200	150	220	-	90	48	35	30	250
SN 3132	140	530	450	60	160	318	215	160	235	-	96	48	35	30	270
SN 3134	150	550	470	60	170	330	220	160	240	-	98	48	35	30	280
SN 3136	160	610	520	70	180	355	230	170	250	-	106	48	35	30	300
SN 3138	170	650	560	70	190	375	240	180	260	-	114	48	35	30	320

SN 3000-3100 SERIES

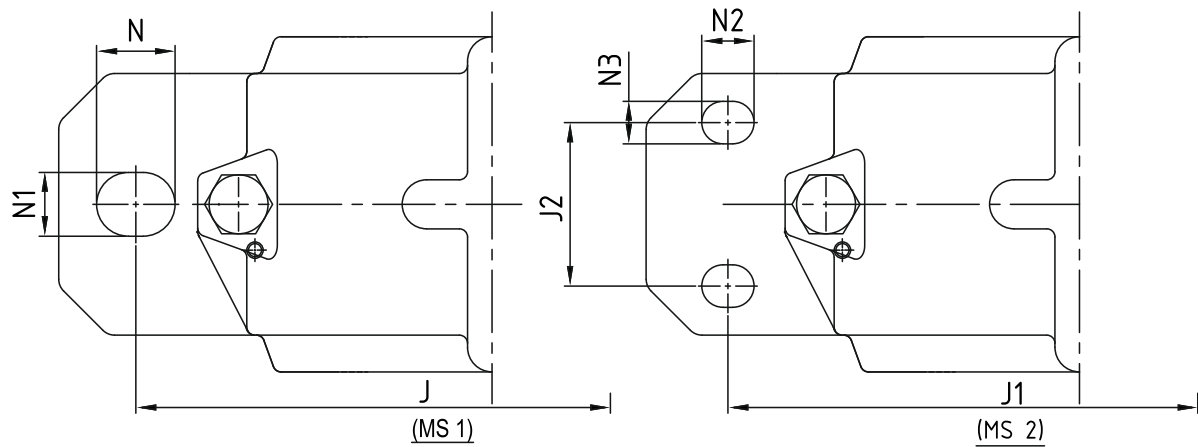
Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves



Shaft Dia da	Approx Weight Kg	Bearing Number and Adapter Sleeve	Locating Rings Size Width/Dia	Locating Rings Nos Per Plummer Block	Felt Strip No.
100	14.5	23022 CCK+H 3022	10/170	2	FS 460
110	20	23024 CCK+H3024	10/180	1	FS 460
115	24	23026 CCK+H3026	10/200	1	FS 460
125	30	23028 CCK+H3028	10/210	1	FS 510
135	40	23030 CCK+H3030	10/225	1	FS 510
140	41	23032 CCK+H3032	10/240	1	FS 680
150	55	23034 CCK+H3034	10/260	1	FS 680
160	62	23036 CCK+H3036	10/280	1	FS 680
170	70	23038 CCK+H3038	10/290	1	FS 680
180	80	23040 CCK+H3040	10/310	1	FS 680
200	105	23044 CCK+OH3044	10/340	1	FS 950
220	125	23048 CCK+OH3048	10/360	1	FS 950
240	160	23052 CCK+OH3052	10/400	1	FS 1120
260	180	23056 CCK+OH3056	10/420	1	FS 1120
100	20.5	23122 K+H3122	10/180	1	FS 390
110	24.5	23124 K+H3124	10/200	1	FS 460
115	30.5	23126 K+H3126	10/210	1	FS 460
125	40.6	23128 K+H3128	10/225	1	FS 510
135	41.8	23130 K+H3130	10/250	1	FS 510
140	55.8	23132 K+H3132	10/270	1	FS 680
150	62.6	23134 K+H3134	10/280	1	FS 680
160	70.8	23136 K+H 3136	10/300	1	FS 680
170	81	23138 K+H3138	10/320	1	FS 680

SN 3000-3100 SERIES

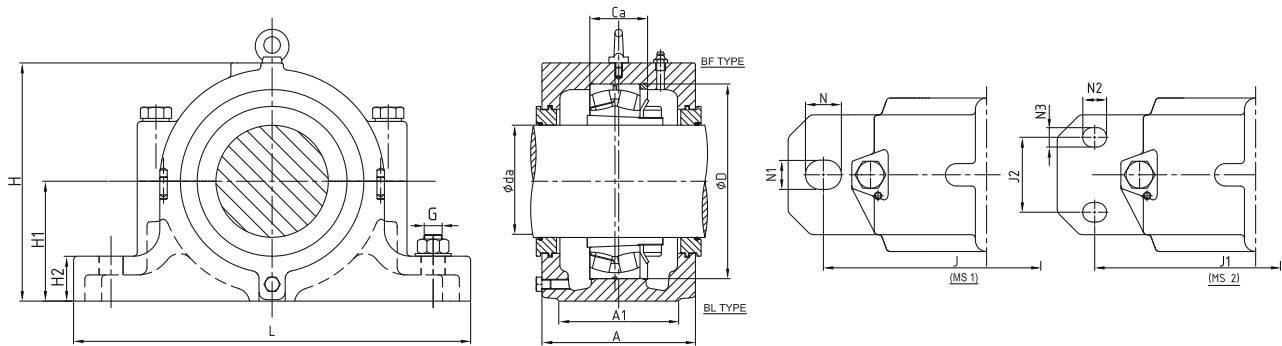
Plummer Blocks (Bearing Housings)
For Foundation Holes



Housing Designation	Dimension For Two Hole Base (MS1)			Suitable Bolt Size	Dimension For Four Hole Base (MS2)				Suitable Bolt Size
	J	N	N1		J1	J2	N2	N3	
SN 3022	290	28	22	M 20	280	50	24	18	M 16
SN 3024 SN 3122	320	36	28	M 24	300	60	24	18	M 16
SN 3026 SN 3124	350	36	28	M 24	320	70	24	18	M 16
SN 3028 SN 3126	350	36	28	M 24	330	70	24	18	M 16
SN 3030 SN 3128	380	36	28	M 24	370	70	28	22	M 20
SN 3032	390	36	28	M 24	370	70	28	22	M 20
SN 3130	420	48	35	M 30	400	80	32	26	M 24
SN 3034 SN 3132	450	48	35	M 30	430	90	32	26	M 24
SN 3036 SN 3134	470	48	35	M 30	450	90	32	26	M 24
SN 3038	470	48	35	M 30	450	90	32	26	M 24
SN 3040	515	48	35	M 30	500	100	32	26	M 24
SN 3136	520	48	35	M 30	500	100	32	26	M 24
SN 3138	560	48	35	M 30	550	100	32	26	M 24
SN 3044	580	50	42	M 36	560	105	32	26	M 24
SN 3048	610	50	42	M 36	580	120	32	26	M 24
SN 3052	680	70	48	M 42	630	120	42	35	M 30
SN 3056	720	70	48	M 42	670	130	42	35	M 30

SN 3000 - SNH 3000 SERIES

Plummer Blocks (Bearing Housings)
Dimensionally Difference Between SN 3000 and SNH 3000



Plummer Block Designation	Dimension in MM															
									Two Hole Foundation (MS1)				Four Hole Foundation (MS2)			
	A	A1	Ca	D	H1	H2	H	J	N	N1	Bolt Size (G)	J1	J2	N2	N3	Bolt Size (G)
SN 3022	145	100	65	170	112	35	210	290	28	22	M20	280	50	24	18	M16
SNH 3022			68									280	58			
SN 3024	150	110	56	180	112	40	215	320	36	28	M24	300	60	24	18	M16
SNH 3024	160		70									300	66			
SN 3026	160	120	62	200	125	45	239	350	36	28	M24	320	70	24	18	M16
SNH 3026	175		80									320	74			
SN 3028	170	120	63	210	140	45	260	350	36	28	M24	330	70	24	18	M16
SNH 3028	185		86				271					330	74			
SN 3030	180	30	66	225	150	50	286	380	36	28	M24	370	70	28	22	M20
SNH 3030	190		90				290					370	80			
SN 3032	190	130	70	240	150	50	297	390	36	28	M24	370	80	28	22	M20
SNH 3032	205		98				302	420				400	92	32	26	M24
SN 3034	205	160	77	260	160	60	318	450	48	35	M30	430	90	32	26	M24
SNH 3034	220						323					430	100			
SN 3036	210	160	84	280	170	60	338	470	48	35	M30	450	90	32	26	M24
SNH 3036	235		114				344					450	100			
SN 3038	220	160	85	290	170	60	346	470	48	35	M30	450	90	32	26	M24
SNH 3038	235		114				344					450	100			