

SOFN SERIES BEARING HOUSINGS

When a high-speed and high-running temperature with continuous services without any stoppage is the requirement, SOFN Housings are the first choice that fulfills all these operating conditions. SOFN Housing is designed keeping in mind, severe operating conditions observed in Fan industries. It is capable of handling heavy loads principally in the radial and axial direction with an added advantage for loads coming in an inclined direction also.

In SOFN Housing Design, only oil lubrication is considered since it justifies to support bearing under such severe application to provide uninterruptedly running of the drive system. To get the best out of oil lubrication, the oil splash system is used with the help of an oil splash ring inside the housing. The oil splash ring continuously rotates with the shaft freely spreading oil inside the housing. A deep oil sump is provided inside the base where the oil ring is dipped while rotating resulting in a heavy splash of lubricating oil into the bearing inside the housing. This arrangement makes very efficient lubrication for SOFN Housing running at high speed and temperature.

It is equally important to control oil leakage from SOFN Housing. For this purpose, a specially designed grooved Sealing Collar is provided which imparts good lubricant retention and high resistance to the ingress of contaminants resulting in this housing optimized performance and extended service life of bearing and lubricant.

All the above features make SOFN Series most versatile and suitable for continuous and heavy-load applications, which may generate vibrations and temperature due to running conditions. SOFN is preferred to support huge Industrial fans and is popular in Cement, Mining, Steel and Power Industries.



SOFN SERIES BEARING HOUSINGS

TECHNICAL DETAIL AND PRODUCT FEATURE

- They are horizontally split housing which helps easy assembly and maintenance for heavy-duty bearing installations. At each side of the housing, a detachable cover is fitted using bolts for easy assembly. The proper gasket is put between the housing machine side and End Cover to prevent Oil Leakage.
- At the base four elongated slots are provided for a secured foundation while assembly. At the base, suitable space is available to drill holes after assembly at site and fit the dowel whenever required during installation. This arrangement makes installation and alignment during maintenance very easy.
- A shaft diameter of 50 mm to 240 mm is the limiting range for the use of suitable spherical roller bearings for this series.
- The SOFN Housing can be supplied for located and non-located bearing options. The bearing seating width is obtained by machining the two side covers appropriately. When side covers are fitted to housing, correct bearing seating width obtained. No locating ring is used due to the heavy-duty application of the housing.
- Specially designed grooved sealing collars are used to prevent oil leakage. Assembly of SOFN Housing must be done carefully putting various components properly to sit in position*. SOFN Housing with all its components is shown in the picture.
*(For better results, trouble-free and correct assembly, the user may refer 'Assembly Manual' published by Masta)
- For shaft end option in the housing assembly, provision for an End Cover is available.
- These Housings are suitable for spherical roller bearing series and can be modified for some spherical ball bearings also.

Four-dimensional Series are available in SOFN Housings:

SOFN 500- suitable for bearing SERIES 222...CCK with adapter sleeve.

SOFN 600- suitable for bearing SERIES 223...CCK with adapter sleeve.

SOFN 200- suitable for bearing SERIES 222...CC with cylindrical bore.

SOFN 300- suitable for bearing SERIES 223...CC with cylindrical bore.

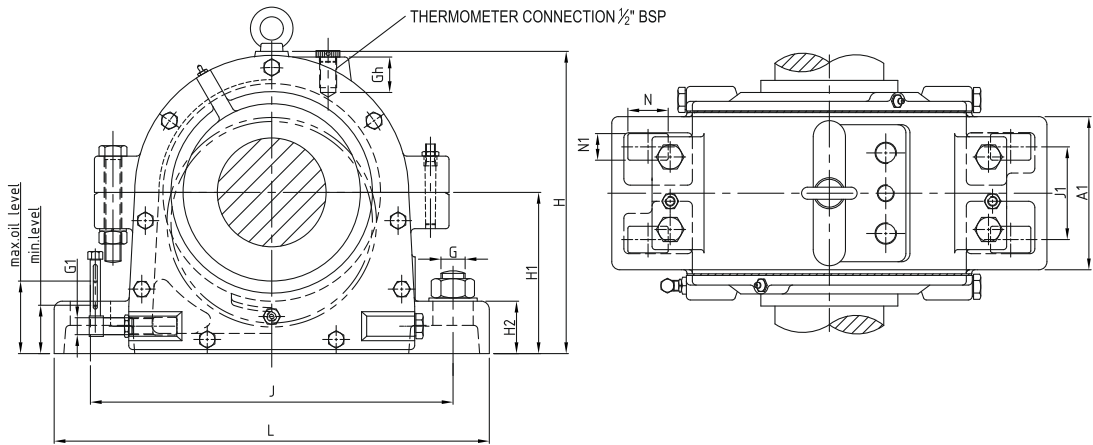
- Masta supplies Customized SOFN Housing to cater specific need of the users.
 - i.) For higher temperature application, SOFN Housing can be provided metallic cooling coil inside the housing. From outside water inlet and outlet are provided to facilitate cooling of oil for better result.
 - ii.) Under the circumstance where application is hard pressed for maintenance time during plant shut-down, SOFN Housing can be supplied with split end covers which are screwed together securely and which can help assembly easy and faster.
- For continuously recording the temperature and vibrations on SOFN Housing suitable pads are provided, where suitable probe can be fitted to monitor the working condition of bearing.
- Suitable oil level indicator is fitted which shows Max and Min level of oil inside the housing. Drain Plugs are provided for removing contaminated oil without disturbing the assembly.
- Air Breather Plug is provided which enable hot air to escape which is generated during higher temperature rise while in operation.
- On cap of housing suitable oil inlet hole & (plug) is available which can be used to add oil when required. Also an external force feed oil lubricating system can be fitted to SOFN Housing which can regulate continuously the oil flow to achieve desired temperature of oil.
- Material for SOFN Series:

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

- Graded Cast Iron : Gr FG 260 (IS 210)
- Cast Steel : Gr 230-450 (IS 1030)
- SG (Ductile) Iron : Gr 400/15 (IS 1865)

SOFN 200-300 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Cylindrical Bore

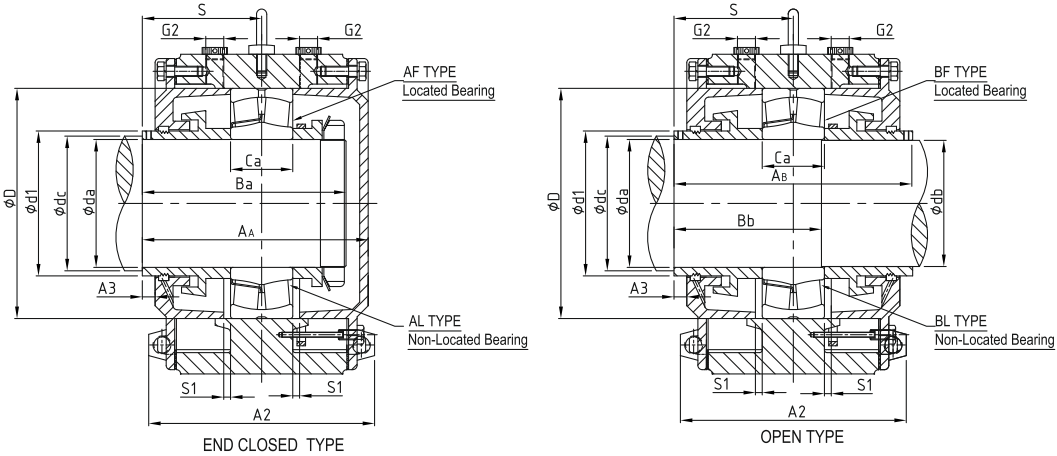


AL = Closed End, Loose Bearing AF=closed End, Fixed Bearing
BL= Through Shaft, Loose Bearing BF=through Shaft, Fixed Bearing

Bearing Housing Designation	Shaft diameter		dc min	Dimensions												
	da	db		AA	AB	A1	A2	A3	G	Gh	H	H1	H2	J	J1	L
SOFN 310	50	49	56	142.5	150	92	145	7.5	M16	27	168	95	30	210	50	270
SOFN 311	55	53	61	147.5	155	95	148	7.5	M16	27	180	100	30	233	50	290
SOFN 212	60	58	66	142.5	150	92	145	7.5	M16	27	168	95	30	210	50	270
SOFN 312	60	58	66	162.5	170	100	152	7.5	M16	27	198	110	30	230	55	290
SOFN 213	65	63	71	147.5	155	95	148	7.5	M16	27	180	100	30	233	50	290
SOFN 313	65	63	71	172.5	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 214	70	68	76	162.5	170	100	152	7.5	M16	27	198	110	30	230	55	290
SOFN 314	70	65	76	172.5	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 215	75	73	81	162.5	170	100	152	7.5	M16	27	198	110	35	230	55	290
SOFN 315	75	73	81	180	190	120	190	10	M20	27	245	135	45	290	70	360
SOFN 216	80	78	86	172.5	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 316	80	78	86	199	214	135	210	15	M20	27	255	140	40	290	80	360
SOFN 217	85	83	91	172.5	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 317	85	83	91	206	206	130	205	10	M24	27	270	145	50	320	75	400
SOFN 218	90	88	96	180	190	120	190	10	M20	27	245	135	45	290	70	360
SOFN 318	90	88	96	225	240	165	246	15	M24	32	280	155	50	317	95	400
SOFN 219	95	93	101	192	200	135	210	8	M20	27	255	140	40	290	80	360
SOFN 319	95	93	101	216	229	145	216	13	M24	27	290	160	50	347	75	420
SOFN 220	100	98	106	196	206	130	205	10	M20	27	270	145	50	320	75	400
SOFN 320	100	98	108	255	270	170	245	15	M24	27	315	170	55	347	90	420

SOFN 200-300 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Cylindrical Bore

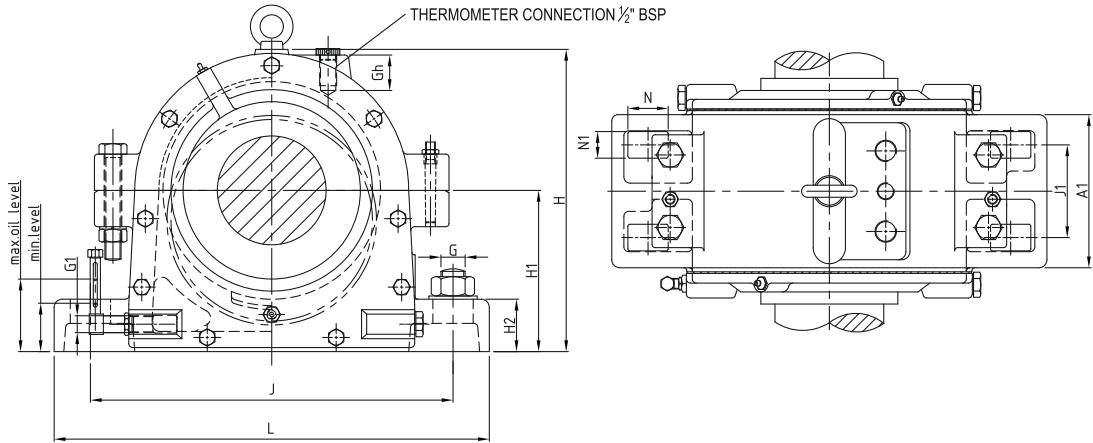


AL = Closed End, Loose Bearing AF=closed End, Fixed Bearing
BL= Through Shaft, Loose Bearing BF=through Shaft, Fixed Bearing

Dimensions											Suitable for Bearing	Oil Level	
N	N1	S	d1	S1	G1	G2	Ba	Bb	Ca	D		MAX	MIN
30	19	75	58	3	R1/4	R3/8	128	92	40	110	22310 CC	53	33
33	19	77.5	65	3	R1/4	R3/8	134	96	43	120	22311 CC	53	37
30	19	75	70	3	R1/4	R3/8	128	86	28	110	22212 CC		
34	19	85	70	5	R1/4	R3/8	147	105	46	130	22312 CC	60	40
34	19	77.5	75	3	R1/4	R3/8	134	90	31	120	22213 CC		
40	24	90	75	3	R1/4	R3/8	153	115	48	140	22313 CC		
34	19	85	80	5	R1/4	R3/8	136	98	31	125	22214 CC		
40	24	90	80	5	R1/4	R3/8	126	112	51	150	22314 CC	65	45
34	19	85	85	5	R1/4	R3/8	145	98	31	130	22215 CC		
40	24	95	85	5	R1/4	R3/8	161	119.5	55	160	22315 CC	65	50
40	24	90	90	5	R1/4	R3/8	149	103	33	140	22216 CC	68	55
40	24	107	95	5	R1/4	R3/8	181	133	58	170	22316 CC	73	45
40	24	90	96	5	R1/4	R3/8	150	105	36	150	22217 CC	63	42
45	28	103	96	5	R1/4	R1/2	188	130	60	180	22317 CC		
40	24	95	100	5	R1/4	R3/8	161	112	40	160	22218 CC	68	45
45	28	120	104	5	R1/4	R1/2	198	148	64	190	22318 CC	80	55
40	24	100	105	5	R1/4	R3/8	171	118	43	170	22219 CC	70	50
45	28	114.5	105	5	R1/4	R1/2	211	148	67	200	22319 CC		
45	28	103	110	5	R1/4	R3/8	177	123	46	180	22220 CC	70	50
45	28	135	115	8	R1/4	R1/2	226	168	73	215	22320 CC	85	57

SOFN 200-300 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Cylindrical Bore

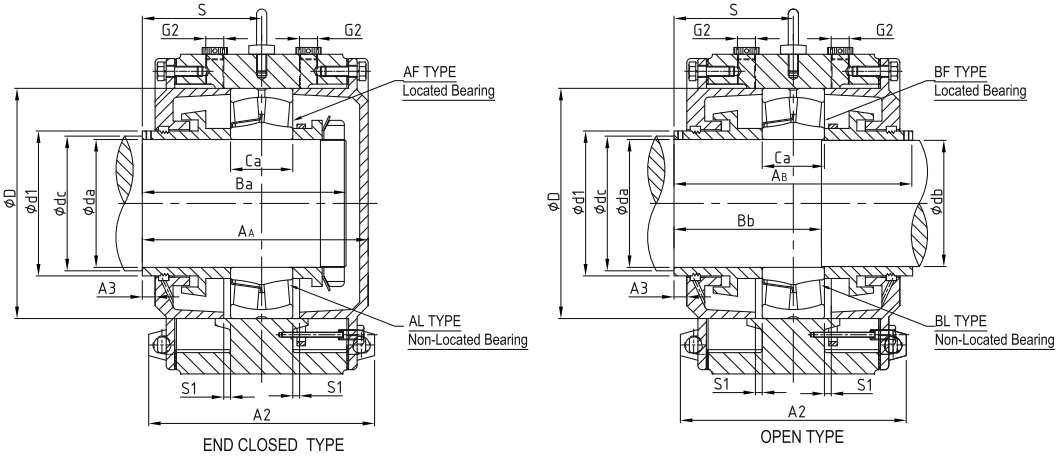


AL = Closed End, Loose Bearing
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BF=through Shaft, Fixed Bearing

Bearing Housing Designation	Shaft diameter		dc min	Dimensions									
	da	db		AA	AB	A1	A2	A3	G	Gh	H	H1	H2
SOFN 222	110	108	116	216	229	145	216	13	M24	27	290	160	50
SOFN 322	110	108	118	270	290	190	265	20	M30	33	355	190	65
SOFN 224	120	118	126	258	276	170	245	18	M24	27	315	170	55
SOFN 324	120	118	128	285.5	306	190	265	20.5	M30	44	375	200	65
SOFN 226	130	128	138	255	270	180	260	15	M24	32	335	180	60
SOFN 326	130	128	140	300	320	205	285	20	M30	38	405	215	65
SOFN 228	140	138	148	265	280	190	265	15	M30	33	355	190	658
SOFN 328	140	138	150	320	340	220	300	20	M30	42	425	230	0
SOFN 230	150	148	158	265	280	190	265	15	M30	44	375	200	65
SOFN 330	150	148	168	335	350	240	320	15	M30	44	455	245	75
SOFN 232	160	158	168	298	316	205	280	18	M30	38	405	215	65
SOFN 332	160	158	178	350	370	250	335	20	M36	50	480	260	85
SOFN 234	170	168	180	330	350	230	310	20	M30	46	440	235	70
SOFN 334	170	168	188	358	378	260	350	20	M36	44	510	275	85
SOFN 236	180	177	196	340	360	240	320	20	M30	44	455	245	75
SOFN 336	180	178	198	384.5	404	280	370	19.5	M36	48	565	305	95
SOFN 238	190	188	208	350	370	250	335	20	M36	50	480	260	85
SOFN 240	200	198	218	358	378	260	350	20	M36	44	510	275	85
SOFN 244	220	218	238	384.5	404	280	370	19.5	M36	48	565	305	95
SOFN 248	240	238	258	400	420	290	380	20	M36	56	625	340	100
SOFN 252	260	258	280	410	430	300	390	20	M36	56	660	360	120
SOFN 256	280	275	310	485	510	350	480	25	M36	85	720	390	120

SOFN 200-300 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Cylindrical Bore

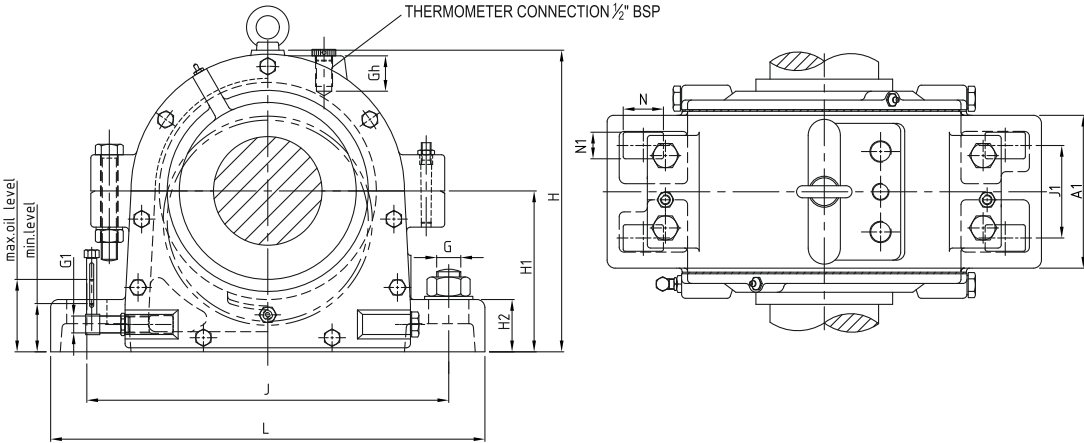


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BL= Through Shaft, Loose Bearing
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BF=through Shaft, Fixed Bearing

Dimensions														Suitable for Bearing	Oil Level	
J	J1	L	N	N1	S	D1	S1	G1	G2	Ba	Bb	Ca	D		MAX	MIN
347 415	75 100	420 500	45 45	28 35	114.5 145	120 130	5 8	R1/4 R1/4	R1/2 R3/4	192 243	138 180	53 80	200 240	22222 CC 22322 CC	77 95	50 67
347 450	90 115	420 540	45 50	28 35	138 153	135 140	8 8	R1/4 R1/4	R1/2 R3/4	225 254	164 192	58 86	215 260	22224 CC 22324 CC	80 100	60 65
377 470	100 120	450 560	45 50	28 35	135 160	145 150	8 8	R1/2 R1/2	R1/2 R3/4	226 265	164 202	64 93	230 280	22226 CC 22326 CC	85 105	60 70
415 510	100 120	500 630	45 60	35 35	140 170	160 165	8 8	R1/2 R1/2	R3/4 R3/4	234 287	170 215	68 102	250 300	22228 CC 22328 CC	85 115	60 70
450 545	115 150	540 650	50 65	35 35	140 175	170 175	8 10	R1/2 R1/2	R3/4 R3/4	239 292	173 225	73 108	270 320	22230 CC 22330 CC	90 120	60 75
470 590	120 150	560 720	50 70	35 42	158 185	178 190	10 10	R1/2 R1/2	R3/4 R3/4	266 315	193 240	80 114	290 380	22232 CC 22332 CC	95 125	65 80
515 600	130 160	610 730	55 70	35 42	175 189	195 197	10 12	R1/2 R1/2	R3/4 R3/4	290 321	213 244	86 120	310 360	22234 CC 22334 CC	105 130	75 85
545 670	150 180	650 820	65 80	35 42	180 202	205 210	10 12	R1/2 R1/2	R3/4 R3/4	296 342	218 260	86 126	320 380	22236 CC 22336 CC	115 155	80 90
590	150	720	70	42	185	220	12	R1/ 2	R3/4	317	226	92	340	22238 CC	120	85
600	160	730	70	42	189	227	12	R1/ 2	R3/4	315	233	98	360	22240 CC	125	85
670	180	820	80	42	202	255	12	R1/ 2	R3/4	342	251	108	400	22244 CC	140	95
740	190	900	80	42	210	270	12	R1/ 2	R3/4	360	266	120	440	22248 CC	155	110
780	200	940	80	42	215	290	12	R1/2	R3/4	370	278	130	480	22252 CC	170	120
810	210	1000	90	48	315	320	12	R1/2	R3/4	314	315	170	500	22256 CC	180	145

SOFN 500-600 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves

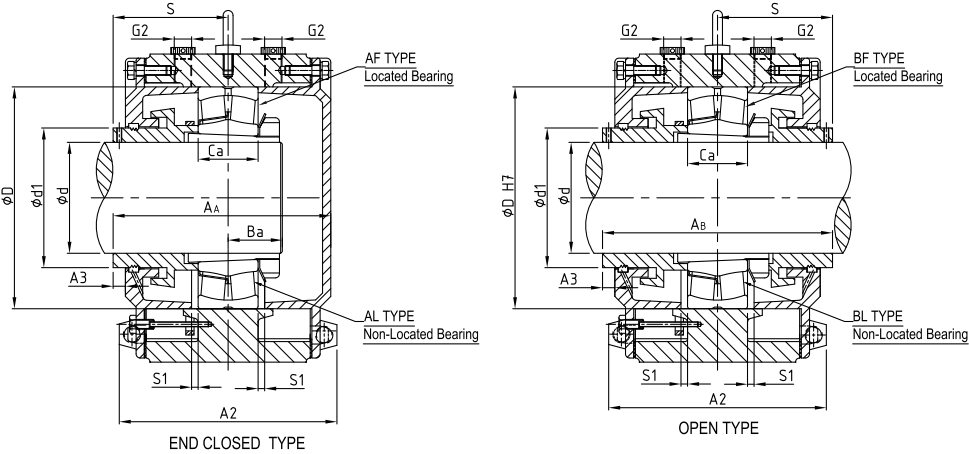


AL = Closed End, Loose Bearing AF=closed End, Fixed Bearing
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Bearing Housing Designation	Shaft dia. d	Dimensions												
		AA	AB	A1	A2	A3	G	Gh	H	H1	H2	J	J1	L
SOFN 610	45	142.5	150	92	145	7.5	M16	27	168	95	30	210	50	270
SOFN 611	50	147.5	155	95	148	7.5	M16	27	180	100	30	233	50	290
SOFN 512	55	162.5	150	92	145	7.5	M16	27	168	95	30	210	50	270
SOFN 612		162.5	170	100	152	7.5	M16	27	198	110	30	230	55	290
SOFN 513	60	140	155	95	148	7.5	M16	27	180	100	30	233	50	290
SOFN 613		172	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 515	65	172.5	170	100	152	7.5	M16	27	198	110	35	230	55	290
SOFN 615		162.5	190	120	190	10	M20	27	245	135	45	290	70	360
SOFN 516	70	180	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 616		199	214	135	210	15	M20	27	255	140	40	290	80	360
SOFN 517	75	172.5	180	110	182	7.5	M20	27	230	125	35	260	60	330
SOFN 617		206	206	130	205	10	M24	27	270	145	50	320	75	400
SOFN 518	80	180	190	120	190	10	M20	27	245	135	40	290	70	360
SOFN 618		225	240	165	246	15	M24	32	280	155	50	317	95	400
SOFN 519	85	192	200	135	210	8	M20	27	255	140	45	290	80	360
SOFN 619		216	229	145	219	13	M24	27	290	160	50	347	75	420
SOFN 520	90	196	206	130	205	10	M24	27	270	145	50	320	75	400
SOFN 620		255	270	170	245	15	M24	27	315	170	55	347	90	420

SOFN 500-600 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves

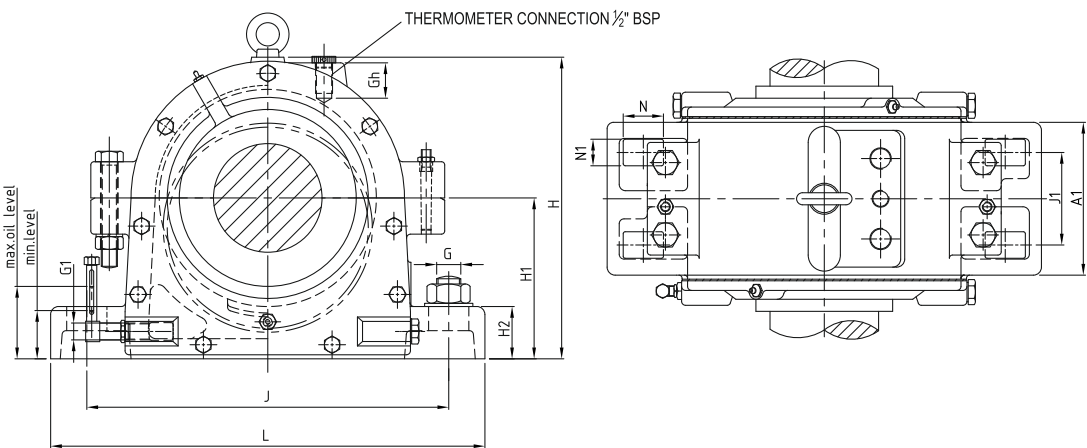


AL = Closed End, Loose Bearing AF=closed End, Fixed Bearing
BL= Through Shaft, Loose Bearing BF=through Shaft, Fixed Bearing

Dimensions										Bearing Adaptersleeve	Oil Level	
N	N1	S	d1	S1	G1	G2	Ba	Ca	D		MAX	MIN
30	19	75	58	3	R1/4	R3/8	36	40	110	22310 CCK H 2310	53	33
33	19	77.5	65	3	R1/4	R3/8	37	43	120	22311 CCK H 2311	53	37
30	19	75	70	3	R1/4	R3/8	0	28	110	22212 CCK H 312	60	40
34	19	85	70	5	R1/4	R3/8	40	46	130	22312 CCK H 2312		
34	19	77.5	75	5	R1/4	R3/8	33	31	120	22213 CCK H 313		
40	24	90	75	3	R1/4	R3/8	41	48	140	22313 CCK H 2313		
34	19	85	85	5	R1/4	R3/8	34	31	130	22215 CCK H 315	55	40
40	24	95	85	5	R1/4	R3/8	0	55	160	22315 CCK H 2315		
40	24	90	90	5	R1/4	R3/8	37	33	140	22216 CCK H 316	68	55
40	24	107	95	5	R1/4	R3/8	50	58	170	22316 CCK H 2316		
40	24	90	96	5	R1/4	R3/8	40	36	150	22217 CCK H 317	63	42
45	28	103	96	5	R1/4	R1/2	0	60	180	22317 CCK H 2317		
40	24	95	100	5	R1/4	R3/8	42	40	160	22218 CCK H 318	68	45
45	28	120	104	5	R1/4	R1/2	54	64	190	22318 CCK H 2318		
40	24	100	105	5	R1/4	R3/8	44	43	170	22219 CCK H 320	70	50
45	28	114.5	105	5	R1/4	R1/2	56	67	200	22319 CCK H 2319		
45	24	103	110	5	R1/4	R1/2	46	46	180	22220 CCK H 320	70	50
45	28	135	115	8	R1/4	R1/2	62	73	215	22320 CCK H 2320		

SOFN 500-600 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves

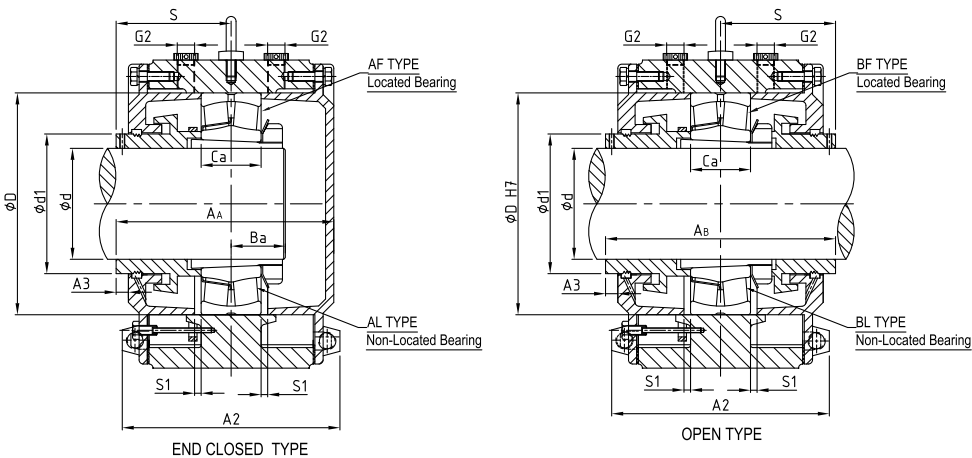


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BL= Through Shaft, Loose Bearing BF=through Shaft, Fixed Bearing

Bearing Housing Designation	Shaft dia. d	Dimensions											
		AA	AB	A1	A2	A3	G	Gh	H	H1	H2	J	
SOFN 522	100	216	229	145	216	13	M24	27	290	160	50	347	75
SOFN 622		270	290	190	265	20	M30	33	355	190	65	415	100
SOFN 524	110	258	276	170	245	18	M24	27	315	170	55	347	90
SOFN 624		285.5	306	190	265	20.5	M30	44	375	200	65	450	115
SOFN 526	115	255	270	180	260	15	M24	32	335	180	60	377	100
SOFN 626		300	320	205	285	20	M30	38	405	215	65	470	120
SOFN 528	125	265	280	190	265	15	M30	33	355	190	65	415	100
SOFN 628		320	340	220	300	20	M30	42	425	230	80	510	120
SOFN 530	135	265	280	190	265	15	M30	44	375	200	65	450	115
SOFN 630		335	350	240	320	15	M30	44	455	245	75	545	150
SOFN 532	140	298	316	205	280	18	M30	38	405	215	65	470	120
SOFN 632		350	370	250	335	20	M36	50	480	260	85	590	150
SOFN 534	150	330	350	230	310	20	M30	46	440	235	70	515	130
SOFN 634		358	378	260	350	20	M36	44	510	275	85	600	160
SOFN 536	160	340	360	240	320	20	M30	44	455	245	75	545	150
SOFN 636		384.5	404	280	370	19.5	M36	48	565	305	95	670	180
SOFN 538	170	350	370	250	335	20	M36	50	480	260	85	590	150
SOFN 540	180	358	378	260	350	20	M36	44	510	275	85	600	160
SOFN 544	200	384.5	404	280	370	19.5	M36	48	565	305	95	670	180
SOFN 548	220	400	420	290	380	20	M36	56	625	340	100	740	190
SOFN 552	240	410	430	300	390	20	M36	56	660	360	120	780	200
SOFN 556	260	485	510	350	480	25	M36	85	720	390	120	810	210

SOFN 500-600 SERIES

Plummer Blocks (Bearing Housings)
For Bearings with Adapter Sleeves



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Dimensions											Bearing Adaptersleeve	Oil Level	
L	N	N1	S	S1	G1	G2	Ba	Ca	D			MAX	MIN
420	45	28	114.5	5	R1/4	R1/2	52	53	200	22222 CCK H 322		77	50
500	45	35	145	8	R1/2	R3/4	66	80	240	22322 CCK H 2322		95	67
420	45	28	138	8	R1/4	R1/2	56	58	215	22224 CCK H 3124		80	60
540	50	35	153	8	R1/2	R3/4	70	86	260	22324 CCK H 2324		100	65
450	45	28	135	8	R1/4	R1/2	58	64	230	22226 CCK H 3126		85	60
560	50	35	160	8	R1/2	R3/4	75	93	280	22326 CCK H 2326		105	70
500	45	35	140	8	R1/2	R3/4	63	68	250	22228 CCK H 3128		85	60
630	60	35	170	8	R1/2	R3/4	80	102	300	22328 CCK H 2328		115	70
540	50	35	140	8	R1/2	R3/4	66	73	270	22230 CCK H 3130		90	60
650	65	35	175	10	R1/2	R3/4	85	108	320	22330 CCK H 2330		120	75
560	50	35	158	10	R1/2	R3/4	73	80	290	22232 CCK H 3132		95	65
720	70	42	185	10	R1/2	R3/4	90	114	340	22332 CCK H 2332		125	80
610	55	35	175	10	R1/2	R3/4	77	86	310	22234 CCK H 3134		105	75
730	70	42	189	12	R1/2	R3/4	94	120	360	22334 CCK H 2334		130	80
650	65	35	180	10	R1/2	R3/4	78	86	320	22236 CCK H 3136		115	80
820	80	42	202	12	R1/2	R3/4	98	126	380	22336 CCK H 2336		155	90
720	70	42	185	12	R1/2	R3/4	82	92	340	22238 CCK H 3138		120	85
730	70	42	189	12	R1/2	R3/4	86	98	360	22240 CCK H 3140		125	85
820	80	42	202	12	R1/2	R3/4	95	108	400	22244 CCK H 3144		140	95
900	80	42	210	12	R1/2	R3/4	105	120	440	22248 CCK H 3148		155	110
940	80	42	215	12	R1/2	R3/4	114	130	480	22252 CCK H 3152		170	120
1000	90	48	315	12	R1/2	R3/4	170	130	500	22256 CCK H3156		180	145

RECOMMENDED TIGHTENING TORQUE FOR CAP BOLTS & FOUNDATION BOLTS FOR SOFN

Bearing Housing Designation	Values for Cap Bolts		Values for Foundation Bolts		Recommended
	Bolt Size	Tightening torque Nm	Bolt Size	Tightening torque Nm	Oil Filled Qty. Ltr.
SOFN 512-212	M10x60	50	M16	200	0.3
SOFN 513-213	M10x60	50	M16	200	0.4
SOFN 515-215	M10x60	50	M16	200	0.5
SOFN 516-216	M10x60	50	M20	385	0.6
SOFN 517-217	M10x70	50	M20	385	0.7
SOFN 518-218	M12x75	80	M20	385	0.8
SOFN 519-219	M12x80	80	M20	385	0.9
SOFN 520-220	M12x80	80	M24	665	1.0
SOFN 522-222	M12x80	80	M24	665	1.3
SOFN 524-224	M16x90	150	M24	665	1.7
SOFN 526-226	M16x100	150	M24	665	2.3
SOFN 528-228	M20x110	200	M30	1310	2.4
SOFN 530-230	M20x120	200	M30	1310	2.8
SOFN 532-232	M20x130	200	M30	1310	3.3
SOFN 534-234	M24x140	350	M30	1310	5.0
SOFN 536-236	M24x150	350	M30	1310	5.2
SOFN 538-238	M24x150	350	M36	2280	5.8
SOFN 540-240	M24x160	350	M36	2280	7.0
SOFN 544-244	M30x180	400	M36	2280	8.5
SOFN 548-248	M30x180	400	M36	2280	9.5

RECOMMENDED TIGHTENING TORQUE FOR CAP BOLTS & FOUNDATION BOLTS FOR SOFN



Bearing Housing Designation	Values for Cap Bolts		Values for Foundation Bolts		Recommended
	Bolt Size	Tightening torque Nm	Bolt Size	Tightening torque Nm	Oil Filled Qty. Ltr.
SOFN 610-310	M10x55	50	M16	200	0.3
SOFN 611-311	M10x60	50	M16	200	4.5
SOFN 612-312	M10x60	50	M16	200	0.5
SOFN 613-313	M12x70	80	M20	385	0.6
SOFN 614-314	M12x70	80	M20	385	0.6
SOFN 615-315	M12x75	80	M20	385	0.8
SOFN 616-316	M12x80	80	M20	385	1.0
SOFN 617-317	M12x75	80	M20	385	1.0
SOFN 618-318	M16x90	150	M24	665	1.4
SOFN 619-319	M16x90	150	M24	665	1.3
SOFN 620-320	M16x100	150	M24	665	1.8
SOFN 622-322	M16x100	150	M30	1310	2.0
SOFN 624-324	M20x110	200	M30	1310	2.8
SOFN 626-326	M20x130	200	M30	1310	3.4
SOFN 628-328	M24x140	350	M30	1310	4.2
SOFN 630-330	M24x140	350	M30	1310	6.0
SOFN 632-332	M24x150	400	M36	2280	6.5
SOFN 634-334	M24x160	400	M36	2280	7.5
SOFN 636-336	M30x180	400	M36	2280	10.5

