

Split plummer block housings SONL series

Bearing types

- Self-aligning ball bearings
- Spherical roller bearings
- CARB toroidal roller bearings

Bearing dimension series

- 22

Shaft diameter range

- 75 to 240 mm
- 2 ¹⁵/₁₆ to 8 ¹⁵/₁₆ in.

Typical shaft-bearing combinations

- Plain shaft with bearing on an adapter sleeve
- Stepped shaft with bearing on a cylindrical seat

Seals

- Labyrinth

Lubrication

- Oil bath lubrication with a pick-up ring
- Circulating oil lubrication systems

Materials

- Grey cast iron
- Spheroidal graphite cast iron

Mounting

- Four-bolt mounting

Compliance to standards

- Not standardized

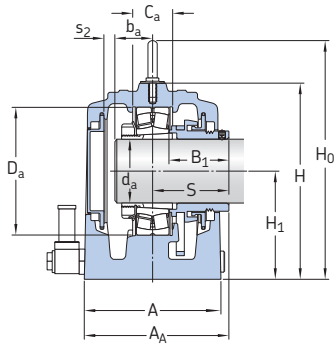
Supersedes

- SOFN in the 2(00) and 5(00) series

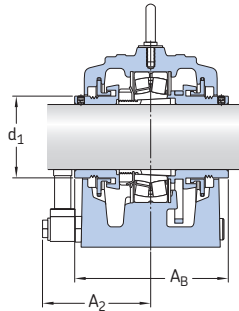
SONL plummer (pillow) block housings are specially designed for oil lubrication. They can accommodate high temperatures and bearings operating at high speeds. They have a strong, stiff design and are characterized by a number of built-in features that maximize the effects of the lubricant and extend bearing service life.

SONL housings can be found in applications ranging from fans and flywheels to paper machines and emergency power generators.

7.1 SONL plummer block housings for bearings on an adapter sleeve, metric shafts d_a 75 – 150 mm



Housing for shaft end



Housing for through shaft

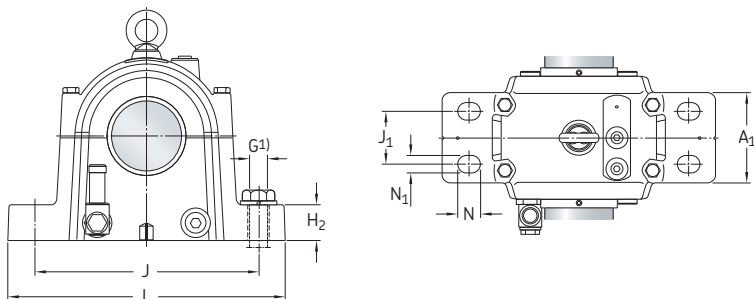
Shaft diameter d _a	Housing Designation	Appropriate parts Bearing ¹⁾	Adapter sleeve ²⁾	Locating ring ³⁾	Seal kit for through shaft ⁴⁾	End cover	Dimensions Housing			
							A	A ₁	A ₂	A _A
mm	–	–					mm			
75	SONL 217-517	2217 K 22217 EK C 2217 K	H 317 H 317 H 317 E	FRB 5/150 FRB 5/150 FRB 5/150	TSO 517	ECO 217-517	163	110	138	172
80	SONL 218-518	2218 K 22218 EK C 2218 K	H 318 H 318 H 318 E	FRB 5/160 FRB 5/160 FRB 5/160	TSO 518	ECO 218-518	170	120	142	180
90	SONL 220-520	2220 KM 22220 EK C 2220 K	H 320 H 320 H 320 E	FRB 7/180 FRB 7/180 FRB 7/180	TSO 520	ECO 220-520	186	130	150	196
100	SONL 222-522	2222 KM 22222 EK C 2222 K	H 322 H 322 H 322 E	FRB 9/200 FRB 9/200 FRB 9/200	TSO 522	ECO 222-522	213	145	163	221
110	SONL 224-524	22224 EK C 2224 K	H 3124 H 3124 L	FRB 12/215 FRB 12/215	TSO 524	ECO 224-524	245	170	179	261
115	SONL 226-526	22226 EK C 2226 K	H 3126 H 3126 L	FRB 11/230 FRB 11/230	TSO 526	ECO 226-526	255	180	184	263
125	SONL 228-528	22228 CCK/W33 C 2228 K	H 3128 H 3128 L	FRB 11/250 FRB 11/250	TSO 528	ECO 228-528	260	190	187	270
135	SONL 230-530	22230 CCK/W33 C 2230 K	H 3130 H 3130 L	FRB 10/270 FRB 10/270	TSO 530	ECO 230-530	260	190	187	270
140	SONL 232-532	22232 CCK/W33	H 3132	FRB 12/290	TSO 532	ECO 232-532	278	205	196	297
150	SONL 234-534	22234 CCK/W33 C 2234 K	H 3134 H 3134 L	FRB 14/310 FRB 14/310	TSO 534	ECO 234-534	310	230	215	330

¹⁾ 22(00) – self-aligning ball bearing, 222(00) – spherical roller bearing, C ... – CARB toroidal roller bearing
Only typical bearings are listed. Other bearing variants can also fit the housing.

²⁾ The adapter sleeve fits the bearing in the same line only.

³⁾ The locating ring fits the bearing in the same line only. Two locating rings are required for each housing.

⁴⁾ Seal kits for a shaft end have the designation suffix A, i.e. TSO ... A.



7.1

Shaft diam- eter d_a	Dimensions Housing																	Eye bolt according to DIN 580	Mass Housing kg
	A_B	d_1	B_1	C_a	D_a	b_a	s_2	H	H_0	H_1	H_2	J	J_1	L	N	N_1	S		
mm	mm																	–	kg
75	180	96	72	46	150	40	19	230	283	125	35	260	60	330	28	22	90	M10	26
80	190	100	75	50	160	42	19	245	298	135	45	290	70	360	28	22	95	M12	33
90	206	112	80	60	180	46	25	270	323	145	50	320	75	400	32	26	103	M12	42
100	229	120	88	71	200	52	32,5	290	343	160	50	347	75	420	32	26	114,5	M12	53
110	276	135	109	82	215	56	47	315	386	170	55	347	90	420	32	26	138	M16	72
115	270	145	103	86	230	60	43	335	406	180	60	377	100	450	35	28	135	M16	87
125	280	160	106	90	250	63	42	355	426	190	65	415	100	500	42	35	140	M20	102
135	280	170	103,5	93	270	67,5	37,5	375	446	200	65	450	115	540	42	35	140	M20	115
140	316	178	118	104	290	73	42	406	477	215	65	470	120	560	42	35	158	M20	141
150	350	195	132	114	310	77	54	440	530	235	70	515	130	610	42	35	175	M24	190

¹⁾ For sizes and tightening torques of the attachment bolts refer to table 3 on page 363.