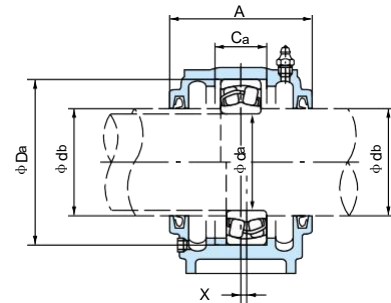
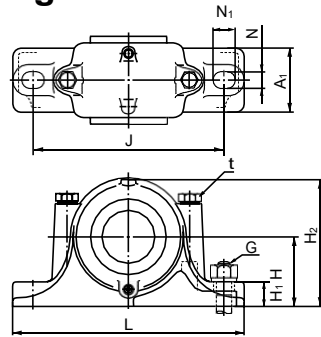


Plummer Block Housings

SN2, SN3 Series

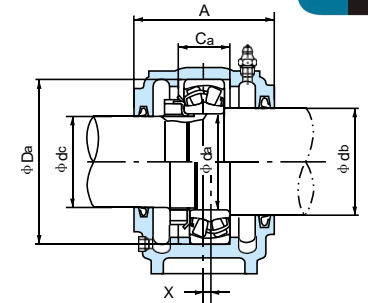
for Bearing with Cylindrical Bore

Shaft Diameter : 25 ~ 65mm



Same Bore Type

Free side



Different Bore Type

1N=0.102kgf

Shaft dia. d _a d _b d _c (mm)	Dimensions (mm)											Mass (kg) (Reference)	Designations		Applicable parts								Y (Reference)		
	D _a (H8)	H (h13)	J	N	N ₁	A	L	A ₁	H ₁	H ₂	C _a (H13) (Nominal)		G (Nominal Reference)	t	Same Bore Type	Different Bore Type	Self-aligning ball bearings	Spherical roller bearings	Nut	Locking washer	Oil seal db side dc side	Locating ring			
																						Designation		Q'ty	
25 30 ⁽¹⁾ 20	52	40	130	15	20	67	165	46	22	75	25	M12	M 8	1.1	SN205	SN205C	1205	—	AN05	AW05X	GS 7	GS 5	SR52×5	2	17
	62	50	150	15	20	80	185	52	22	90	34	M12	M 8	1.6	SN305	SN305C	2205	22205EX	AN05	AW05X	GS 7	GS 5	SR52×7	1	19
30 35 ⁽¹⁾ 25	62	50	150	15	20	77	185	52	22	90	30	M12	M 8	1.7	SN206	SN206C	1305	21305E	AN05	AW05X	GS 7	GS 5	SR62×8.5	2	18
	72	50	150	15	20	82	185	52	22	95	37	M12	M10	1.8	SN306	SN306C	2305	—	AN05	AW05X	GS 7	GS 5	SR62×10	1	22
35 45 30	62	50	150	15	20	77	185	52	22	90	30	M12	M 8	1.7	SN206	SN206C	1206	—	AN06	AW06X	GS 8	GS 6	SR62×7	2	18
	72	50	150	15	20	82	185	52	22	95	37	M12	M10	1.8	SN306	SN306C	2206	22206EX	AN06	AW06X	GS 8	GS 6	SR62×10	1	20
40 50 35	72	50	150	15	20	82	185	52	22	95	33	M12	M10	1.9	SN207	SN207C	1306	21306E	AN06	AW06X	GS 8	GS 6	SR72×9	2	19
	80	60	170	15	20	90	205	60	25	110	41	M12	M10	2.6	SN307	SN307C	2306	—	AN06	AW06X	GS 8	GS 6	SR72×10	1	23
45 55 40	72	50	150	15	20	82	185	52	22	95	33	M12	M10	1.9	SN207	SN207C	1207	—	AN07	AW07X	GS10	GS 7	SR72×8	2	19
	80	60	170	15	20	90	205	60	25	110	41	M12	M10	2.6	SN307	SN307C	2207	22207EX	AN07	AW07X	GS10	GS 7	SR72×10	1	22
50 60 45	80	60	170	15	20	85	205	60	25	110	33	M12	M10	2.6	SN208	SN208C	1307	21307E	AN07	AW07X	GS10	GS 7	SR80×10	2	21
	90	60	170	15	20	95	205	60	25	115	43	M12	M10	2.9	SN308	SN308C	2307	—	AN07	AW07X	GS10	GS 7	SR80×10	1	26
45 55 40	85	60	170	15	20	85	205	60	25	112	31	M12	M10	2.8	SN209	SN209C	1208	—	AN08	AW08X	GS11	GS 8	SR80×7.5	2	21
	100	70	210	18	23	105	255	70	28	130	46	M16	M12	4.1	SN309	SN309C	2208	22208EX	AN08	AW08X	GS11	GS 8	SR80×10	1	23
50 60 45	85	60	170	15	20	85	205	60	25	112	31	M12	M10	2.8	SN209	SN209C	1308	21308E	AN08	AW08X	GS11	GS 8	SR90×10	2	23
	100	70	210	18	23	105	255	70	28	130	46	M16	M12	4.1	SN309	SN309C	2308	22308EX	AN08	AW08X	GS11	GS 8	SR90×10	1	28
55 65 50	90	60	170	15	20	90	205	60	25	115	33	M12	M10	3.0	SN210	SN210C	1209	—	AN09	AW09X	GS12	GS 9	SR85×6	2	22
	110	70	210	18	23	115	255	70	30	135	50	M16	M12	4.7	SN310	SN310C	2209	22209EX	AN09	AW09X	GS12	GS 9	SR85×8	1	24
60 70 ⁽¹⁾ 55	90	60	170	15	20	90	205	60	25	115	33	M12	M10	3.0	SN210	SN210C	1309	21309E	AN09	AW09X	GS12	GS 9	SR100×10.5	2	25
	110	70	210	18	23	115	255	70	30	135	50	M16	M12	4.7	SN310	SN310C	2309	22309EX	AN09	AW09X	GS12	GS 9	SR100×10	1	31
55 65 50	100	70	210	18	23	95	255	70	28	130	33	M16	M12	4.5	SN211	SN211C	1210	—	AN10	AW10X	GS13	GS10	SR90×6.5	2	24
	120	80	230	18	23	120	275	80	30	150	53	M16	M12	5.8	SN311	SN311C	2210	22210EX	AN10	AW10X	GS13	GS10	SR90×10	1	25
60 70 ⁽¹⁾ 55	100	70	210	18	23	95	255	70	28	130	33	M16	M12	4.5	SN211	SN211C	1310	21310E	AN10	AW10X	GS13	GS10	SR110×11.5	2	27
	120	80	230	18	23	120	275	80	30	150	53	M16	M12	5.8	SN311	SN311C	2310	22310EX	AN10	AW10X	GS13	GS10	SR110×10	1	34
65 75 ⁽¹⁾ 60	110	70	210	18	23	105	255	70	30	135	38	M16	M12	5.0	SN212	SN212C	1211	—	AN11	AW11X	GS15	GS11	SR100×6	2	25
	130	80	230	18	23	125	280	80	30	155	56	M16	M12	6.5	SN312	SN312C	2211	22211EX	AN11	AW11X	GS15	GS11	SR100×8	1	27
65 75 ⁽¹⁾ 60	110	70	210	18	23	105	255	70	30	135	38	M16	M12	5.0	SN212	SN212C	1311	21311E	AN11	AW11X	GS15	GS11	SR120×12	2	29
	130	80	230	18	23	125	280	80	30	155	56	M16	M12	6.5	SN312	SN312C	2311	22311EX	AN11	AW11X	GS15	GS11	SR120×10	1	36
65 75 ⁽¹⁾ 60	120	80	230	18	23	110	275	80	30	150	43	M16	M12	5.6	SN213	SN213C	1212	—	AN12	AW12X	GS16	GS12	SR110×8	2	26
	140	95	260	22	27	130	315	90	32	175	58	M20	M16	8.7	SN313	SN313C	2212	22212EX	AN12	AW12X	GS16	GS12	SR110×10	1	29
65 75 ⁽¹⁾ 60	120	80	230	18	23	110	275	80	30	150	43	M16	M12	5.6	SN213	SN213C	1312	21312E	AN12	AW12X	GS16	GS12	SR130×12.5	2	31
	140	95	260	22	27	130	315	90	32	175	58	M20	M16	8.7	SN313	SN313C	2312	22312EX	AN12	AW12X	GS16	GS12	SR130×10	1	39
65 75 ⁽¹⁾ 60	120	80	230	18	23	110	275	80	30	150	43	M16	M12	5.6	SN213	SN213C	1213	—	AN13	AW13X	GS17	GS13	SR120×10	2	28
	140	95	260	22	27	130	315	90	32	175	58	M20	M16	8.7	SN313	SN313C	2213	22213EX	AN13	AW13X	GS17	GS13	SR120×12	1	32
65 75 ⁽¹⁾ 60	120	80	230	18	23	110	275	80	30	150	43	M16	M12	5.6	SN213	SN213C	1313	21313E	AN13	AW13X	GS17	GS13	SR140×12.5	2	33
	140	95	260	22	27	130	315	90	32	175	58	M20	M16	8.7	SN313	SN313C	2313	22313EX	AN13	AW13X	GS17	GS13	SR140×10	1	40

Note (1): When heavy axial load is applied, a spacer with large O.D. and small inner chamfer must be used between the bearing and shaft shoulder to obtain a sufficient contact area.

Remarks (1): Plummer block housings are housings with oil seals, a plug and a grease nipple only. To make a complete unit, please order the corresponding bearing, locating rings and other parts shown in the table additionally.

(2): The masses in the table do not include the bearing, nut and locating rings but the bolts.
 (3): H8, H13 and h13 in the table means tolerance classes specified in JIS B 0401.
 (4): The tolerance of locating ring O.D. is h12, and 0 ~ -0.2 for the width.

(5): The threads for plugs are PT1/8. SN205 does not have a drain hole.

(6): When one locating ring is used for fixed-end, the offset (X dimension) of bearing center from the center of the plummer block housing is a half of the locating ring width.

(7): ZF type oil seals are also available instead of GS type seals.

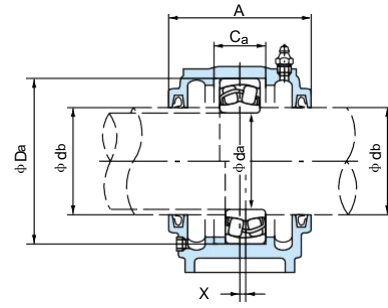
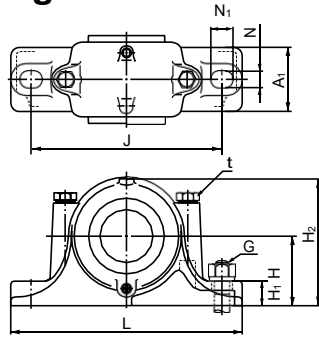
(8): SN---C type housings for different shaft diameters d_{or} d_c from the dimensions shown above are also available.

(9): The dimension Y indicates the distance from the bearing center to the outer side face of the nut.

Plummer Block Housings

SN2, SN3 Series
for Bearing with
Cylindrical Bore

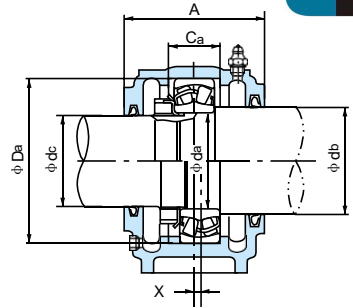
Shaft Diameter : 70 ~ 160mm



Same Bore Type

Free side

Fixed side



Different Bore Type

1N=0.102kgf

Shaft dia. d _a d _b d _c (mm)	Dimensions (mm)												Mass (kg) (Reference)	Designations		Applicable parts												
	D _a (H8)	H (h13)	J	N	N ₁	A	L	A ₁	H ₁	H ₂	C _a (H13)	G (Nominal)		t (Nominal) (Reference)	Same Bore Type	Different Bore Type	Self-aligning ball bearings	Spherical roller bearings	Nut	Locking washer	Oil seal d _{side} d _{side}	Locating ring Designation Q'ty		Y (Reference)				
70	80 65	125	80	230	18	23	115	275	80	30	155	44	M16	M12	6.2	SN214	SN214C	1214 2214	— 22214EX	AN14	AW14X	GS18	GS15	SR125×10 SR125×13	2 1	28 32		
	80 ⁽¹⁾ 65	150	95	260	22	27	130	320	90	32	185	61	M20	M16	10	SN314	SN314C	1314 2314	21314E 22314EX	AN14	AW14X	GS18	GS15	SR150×13 SR150×10	2 1	34 42		
75	85 70	130	80	230	18	23	115	280	80	30	155	41	M16	M12	7.0	SN215	SN215C	1215 2215	— 22215EX	AN15	AW15X	GS19	GS16	SR130×8 SR130×10	2 1	30 33		
	85 ⁽¹⁾ 70	160	100	290	22	27	140	345	100	35	195	65	M20	M16	11	SN315	SN315C	1315 2315	21315E 22315EX	AN15	AW15X	GS19	GS16	SR160×14 SR160×10	2 1	36 45		
80	90 75	140	95	260	22	27	120	315	90	32	175	43	M20	M16	9.0	SN216	SN216C	1216 2216	— 22216EX	AN16	AW16X	GS20	GS17	SR140×8.5 SR140×10	2 1	32 36		
	90 ⁽¹⁾ 75	170	112	290	22	27	145	345	100	35	212	68	M20	M16	13	SN316	SN316C	1316 2316	21316E 22316EX	AN16	AW16X	GS20	GS17	SR170×14.5 SR170×10	2 1	39 48		
85	95 80	150	95	260	22	27	125	320	90	32	185	46	M20	M16	10	SN217	SN217C	1217 2217	— 22217EX	AN17	AW17X	GS21	GS18	SR150×9 SR150×10	2 1	34 38		
	95 ⁽¹⁾ 80	180	112	320	26	32	155	380	110	40	223	70	M24	M20	15	SN317	SN317C	1317 2317	21317E 22317EX	AN17	AW17X	GS21	GS18	SR180×14.5 SR180×10	2 1	41 50		
90	100 85	160	100	290	22	27	145	345	100	35	195	62.4	M20	M16	13	SN218	SN218C	1218 2218	— 22218EX	AN18	AW18X	GS22	GS19	SR160×16.2 SR160×11.2	2 1	35 40		
95	110 90	170	112	290	22	27	140	345	100	35	210	53	M20	M16	15	SN219	SN219C	1219 2219	— 22219EX	AN19	AW19X	GS24	GS20	SR170×10.5 SR170×10	2 1	37 43		
100	115 95	180	112	320	26	32	160	380	110	40	218	70.3	M24	M20	19	SN220	SN220C	1220 2220	— 22220EX	AN20	AW20X	GS26	GS21	SR180×18.1 SR180×12.1	2 1	39 45		
110	125 105																											
120	135 115	215	140	350	26	32	185	410	120	45	270	86	M24	M20	25	SN224	SN224C	— —	22224EX 23224E	AN24	AW24X	GS30	GS26	SR215×14 SR215×10	2 1	53 62		
130	145 125	230	150	380	28	36	190	445	130	50	290	90	M24	M24	30	SN226	SN226C	— —	22226EX 23226E	AN26	AW26	GS33	GS28	SR230×13 SR230×10	2 1	57 65		
140	155 135	250	150	420	33	42	205	500	150	50	305	98	M30	M24	38	SN228	SN228C	— —	22228EX 23228E	AN28	AW28	GS35	GS30	SR250×15 SR250×10	2 1	60 70		
150	165 145	270	160	450	33	42	220	530	160	60	325	106	M30	M24	46	SN230	SN230C	— —	22230E 23230E	AN30	AW30	GS37	GS33	SR270×16.5 SR270×10	2 1	65 76		
160	175 150	290	170	470	33	42	235	550	160	60	345	114	M30	M24	50	SN232	SN232C	— —	22232E 23232E	AN32	AW32	GS39	GS34	SR290×17 SR290×10	2 1	71 83		

Note (1): When heavy axial load is applied, a spacer with large O.D. and small inner chamfer must be used between the bearing and shaft shoulder to obtain a sufficient contact area.

- Remarks (1): Plummer block housings are housings with oil seals, a plug and a grease nipple only.
To make a complete unit, please order the corresponding bearing, locating rings and other parts shown in the table additionally.
(2): The masses in the table do not include the bearing, nut and locating rings but the bolts.
(3): H8, H13 and h13 in the table means tolerance classes specified in JIS B 0401.
(4): The tolerance of locating ring O.D. is h12, and 0 ~ -0.2 for the width.

- (5): Plummer block housings SN224 and larger are provided with eye bolts.
(6): The threads for plugs are PT1/8 for SN316 and smaller, and PT1/4 for the others.
(7): When one locating ring is used for fixed-end, the offset (X dimension) of bearing center from the center of the plummer block housing is a half of the locating ring width.
(8): ZF type oil seals are also available instead of GS type seals.
(9): SN--C type housings for different shaft diameters d_b or d_c from the dimensions shown above are also available.
(10): The dimension Y indicates the distance from the bearing center to the outer side face of the nut.