



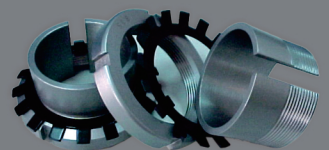
COMPLETE UNITS OF PLUMMER BLOCK HOUSINGS 2012

PLUMMER BLOCK
HOUSINGS

SELF-ALIGNING BALL
BEARINGS

SPHERICAL ROLLER
BEARINGS

ADAPTER SLEEVES





PLUMMER BLOCK HOUSINGS
SELF-ALIGNING BALL BEARINGS
SPHERICAL ROLLER BEARINGS
ADAPTER SLEEVES

SLB[®]

REGISTERED IN U.S.A.



This **SLB** catalogue has been completely revised and contains considerable alternations and supplementary information compared to previous catalogue.

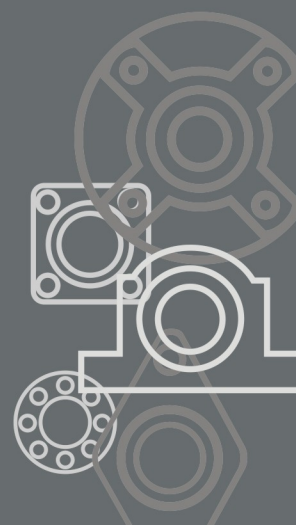
Products that are not shown may be available, but this should be checked in each case.

The data in this catalogue are based on current production, in accordance with ISO standard (International Organization for Standardization)



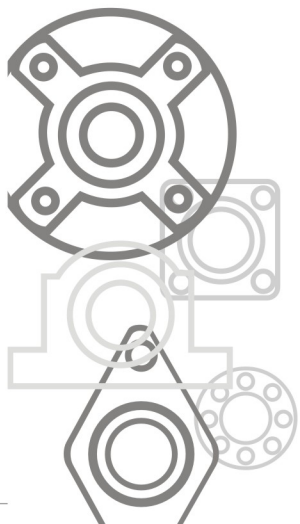
Plummer Block Housings

SLB[®]





TECHNICAL INFORMATION



Feature

The majority of **SLB** Plummer Block Housing is made of Gray Cast Iron and is of the models of 'SN', 'SNU' and 'SAF'. Its basic size conforms with 'ISO' standard and could meet the requirement of bearing with inner ring of 20 mm -160 mm. It could not be interchangeable with the other parts of the housing cap or the housing base. Two parts through the fixing "pins" to ensure their correct assembly.

1. Materials

1.1 Housing:

Grade 200 (FC 200), it is equivalent to U.S.A. standard ASTM A-48 (Grade 35)

1.2 Accessories:

Please refer to Table 1.2.

Table 1.2

Description	Part number	Materials
Felt Seal	FS	Wool + Rayon
Locating Ring	SR	Aluminum
Hexagon Bolt	M	Mild Steel
U-Ring	U-500 / U-600	NBR + Mild Steel Plate
Labyrinth Seal	LER / LOR	Aluminum + NBR
End Cover	500 NA / 500 UA	NBR + Mild Steel Plate
Eye-Bolt		Mild Steel
Cap		Plastic

2. Applicable Bearings

All **SLB** Plummer Block Housings applicable to the appropriate self-aligning ball bearings and spherical roller bearings, they are economic bearing units and normally require little maintenance.

3. Tolerances

3.1 Tolerance of housings bore-D

Please refer to table 3.1.

Table 3.1 Unit: 0.001 mm

Bore (mm)	G7	H7	H8	J7
50 - 80	+40	+30	+46	+18
	+10	0	0	-12
80 - 120	+42	+35	+54	+22
	+12	0	0	-13
120 - 180	+54	+40	+63	+26
	+14	0	0	-14
180 - 250	+61	+46	+72	+30
	+15	0	0	-16
250 - 315	+69	+52	+81	+36
	+17	0	0	-16



Plummer Block Housings



PRODUCT INFORMATION

P14 - 23



SNU 500-600

P14 - 17



SN 500

P18 - 19



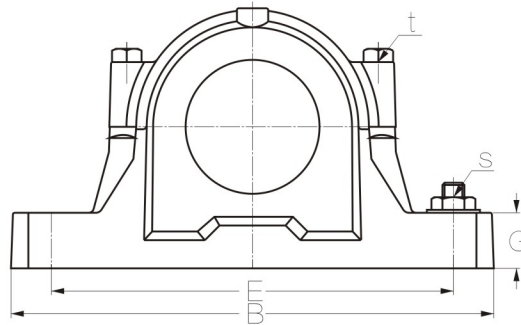
SN 600

P20 - 21



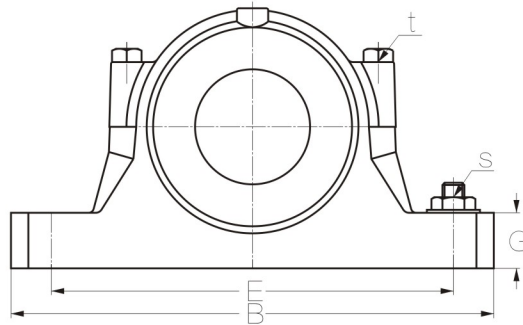
SN 200

P22 - 23



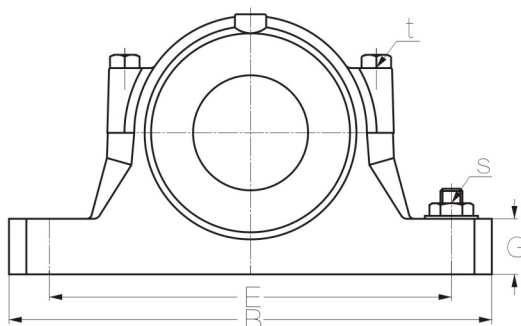
HOUSING SIZE	SHAFT DIAMETER	PLUMMER BLOCK HOUSING	PLUMMER BLOCK HOUSING DIMENSIONS (mm)										
	d (mm)		D (H 8)	B	b	G	F (H 13)	A (h 13)	L	H	E	d ₂ (H 12)	d ₃ (H 13)
SNU 505	20	SNU 505	52	165	46	19	25	40	67	73	130	31.5	39.5
SNU 605	20	SNU 506-605	62	185	52	22	32	50	77	88	150	36.5	44.5
SNU 506	25	SNU 506-605	62	185	52	22	32	50	77	88	150	36.5	44.5
SNU 606	25	SNU 507-606	72	185	52	22	34	50	82	93	150	46.5	54.5
SNU 507	30	SNU 507-606	72	185	52	22	34	50	82	93	150	46.5	54.5
SNU 607	30	SNU 508-607	80	205	60	25	39	60	85	107	170	51.5	59.5
SNU 508	35	SNU 508-607	80	205	60	25	39	60	85	107	170	51.5	59.5
SNU 608	35	SNU 510-608	90	205	60	25	41	60	90	112	170	62.0	70.5
SNU 509	40	SNU 509	85	205	60	25	30	60	85	109	170	56.5	64.5
SNU 609	40	SNU 511-609	100	255	70	28	44	70	95	127	210	67.0	75.5
SNU 510	45	SNU 510-608	90	205	60	25	41	60	90	112	170	62.0	70.5
SNU 610	45	SNU 512-610	110	255	70	30	48	70	105	133	210	72.0	80.5
SNU 511	50	SNU 511-609	100	255	70	28	44	70	95	127	210	67.0	75.5
SNU 611	50	SNU 513-611	120	275	80	30	51	80	110	148	230	77.0	85.5
SNU 512	55	SNU 512-610	110	255	70	30	48	70	105	133	210	72.0	80.5
SNU 612	55	SNU 515-612	130	280	80	30	56	80	115	154	230	87.0	95.5
SNU 513	60	SNU 513-611	120	275	80	30	51	80	110	148	230	77.0	85.5
SNU 613	60	SNU 516-613	140	315	90	32	58	95	120	175	260	92.5	101.0
SNU 515	65	SNU 515-612	130	280	80	30	56	80	115	154	230	87.0	95.5
SNU 615	65	SNU 518-615	160	345	100	35	65	100	140	191	290	102.5	111.0

Remark: All SN housings available with Felt-seals (FS).



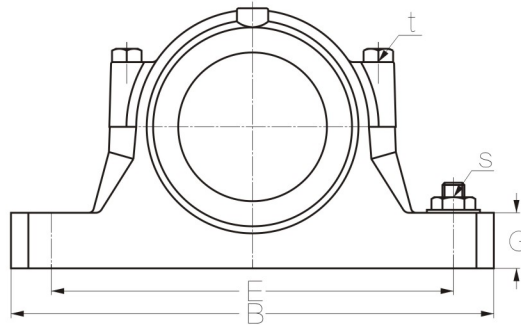
HOUSING SIZE	SHAFT DIAMETER	PLUMMER BLOCK HOUSING	PLUMMER BLOCK HOUSING DIMENSIONS (mm)										
	d (mm)		D (H8)	B	b	G	F (H13)	A (h13)	L	H	E	d ₁ (H12)	d ₂ (H13)
SN 506	25	SN 506	62	185	52	22	30.0	50	77	90	150	26.5	38
SN 507	30	SN 507	72	185	52	22	33.0	50	82	95	150	31.5	43
SN 508	35	SN 508	80	205	60	25	33.0	60	85	112	170	36.5	48
SN 509	40	SN 509	85	205	60	25	31.0	60	85	112	170	41.5	53
SN 510	45	SN 510	90	205	60	25	33.0	60	90	115	170	46.5	58
SN 511	50	SN 511	100	255	70	28	33.0	70	95	130	210	51.5	67
SN 512	55	SN 512	110	255	70	30	38.0	70	105	135	210	56.5	72
SN 513	60	SN 513	120	275	80	30	43.0	80	110	150	230	62.0	77
SN 515	65	SN 515	130	280	80	30	41.0	80	115	155	230	67.0	82
SN 516	70	SN 516	140	315	90	32	43.0	95	120	175	260	72.0	89
SN 517	75	SN 517	150	320	90	32	46.0	95	125	185	260	77.0	94
SN 518	80	SN 518	160	345	100	35	62.4	100	145	195	290	82.0	99
SN 519	85	SN 519	170	345	100	35	53.0	112	140	210	290	87.0	104
SN 520	90	SN 520	180	380	110	40	70.3	112	160	215	320	92.0	111
SN 522	100	SN 522	200	410	120	45	80.0	125	175	239	350	102.0	125
SN 524	110	SN 524	215	410	120	45	86.0	140	185	270	350	113.0	135
SN 526	115	SN 526	230	445	130	50	90.0	150	190	290	380	118.0	140
SN 528	125	SN 528	250	500	150	50	98.0	150	205	305	420	128.0	154
SN 530	135	SN 530	270	530	160	60	106.0	160	220	325	450	138.0	164
SN 532	140	SN 532	290	550	160	60	114.0	170	235	340	470	143.0	173

Remark: All SN housings available with Felt-seals (FS).



HOUSING SIZE	SHAFT	PLUMMER BLOCK HOUSING	PLUMMER BLOCK HOUSING DIMENSIONS (mm)										
	DIAMETER		D (H8)	B	b	G	F (H13)	A (h13)	L	H	E	d1 (H12)	d2 (H13)
	d (mm)												
SN 606	25	SN 606	72	185	52	22	37	50	82	95	150	26.5	38
SN 607	30	SN 607	80	205	60	25	41	60	90	110	170	31.5	43
SN 608	35	SN 608	90	205	60	25	43	60	95	115	170	36.5	48
SN 609	40	SN 609	100	255	70	28	46	70	105	130	210	41.5	53
SN 610	45	SN 610	110	255	70	30	50	70	115	135	210	46.5	58
SN 611	50	SN 611	120	275	80	30	53	80	120	150	230	51.5	67
SN 612	55	SN 612	130	280	80	30	56	80	125	155	230	56.5	72
SN 613	60	SN 613	140	315	90	32	58	95	130	175	260	62.0	77
SN 615	65	SN 615	160	345	100	35	65	100	140	195	290	67.0	82
SN 616	70	SN 616	170	345	100	35	68	112	145	215	290	72.0	89
SN 617	75	SN 617	180	380	110	40	70	112	155	218	320	77.0	94
SN 618	80	SN 618	190	400	110	33	74	112	160	230	320	82.0	99
SN 619	85	SN 619	200	420	120	36	77	125	170	245	350	87.0	104
SN 620	90	SN 620	215	420	120	38	83	140	175	280	350	92.0	111

Remark: All SN housings available with Felt-seals (FS).

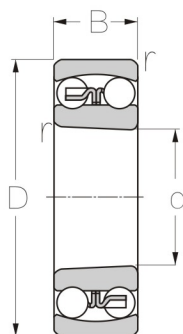


HOUSING SIZE	SHAFT DIAMETER	PLUMMER BLOCK HOUSING	PLUMMER BLOCK HOUSING DIMENSIONS (mm)										
	d (mm)		D (H8)	B	b	G	F (H13)	A (h13)	L	H	E	d ₁ (H12)	d ₂ (H13)
SN 206	30	SN 206	62	185	52	22	30.0	50	77	90	150	36.5	48
SN 207	35	SN 207	72	185	52	22	33.0	50	82	95	150	46.5	58
SN 208	40	SN 208	80	205	60	25	33.0	60	85	112	170	51.5	67
SN 209	45	SN 209	85	205	60	25	31.0	60	85	112	170	56.5	72
SN 210	50	SN 210	90	205	60	25	33.0	60	90	115	170	62.0	77
SN 211	55	SN 211	100	255	70	28	33.0	70	95	130	210	67.0	82
SN 212	60	SN 212	110	255	70	30	38.0	70	105	135	210	72.0	89
SN 213	65	SN 213	120	275	80	30	43.0	80	110	150	230	77.0	94
SN 215	75	SN 215	130	280	80	30	41.0	80	115	155	230	87.0	104
SN 216	80	SN 216	140	315	90	32	43.0	95	120	175	260	92.0	111
SN 217	85	SN 217	150	320	90	32	46.0	95	125	185	260	97.0	120
SN 218	90	SN 218	160	345	100	35	62.4	100	145	195	290	102.0	125
SN 220	100	SN 220	180	380	110	40	70.3	112	160	215	320	118.0	140
SN 222	110	SN 222	200	410	120	45	80.0	125	175	239	350	128.0	154
SN 224	120	SN 224	215	410	120	45	86.0	140	185	270	350	138.0	164
SN 226	130	SN 226	230	445	130	50	90.0	150	190	290	380	148.0	178
SN 228	140	SN 228	250	500	150	50	98.0	150	205	305	420	158.0	188
SN 230	150	SN 230	270	530	160	60	106.0	160	220	325	450	168.0	198
SN 232	160	SN 232	290	550	160	60	114.0	170	235	340	470	178.0	208

Remark: All SN housings available with Felt-seals (FS).

Self-Aligning Ball Bearings

SLB[®]

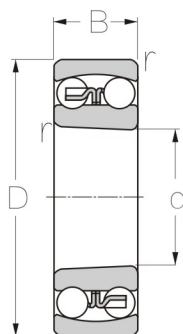


Tapered bore
taper 1:12

Inner bore d mm	Bearing numbers		Principal dimensions			Basic load ratings		Speed ratings		Weight kg(s).
			D	B mm	r s min ⁻¹	dynamic	static	Reference speed	Limited speed	
						C _r N	C _{0r}	rpm	rpm	
25	1205 K JP	1205 K TVH	52	15	1.0	12100	3300	16000	18100	0.135
30	1206 K JP	1206 K TVH	62	16	1.0	15600	4650	14000	15400	0.213
35	1207 K JP	1207 K TVH	72	17	1.1	15800	5100	12000	13200	0.312
40	1208 K JP	1208 K TVH	80	18	1.1	19300	6550	10000	11600	0.407
45	1209 K JP	1209 K TVH	85	19	1.1	21900	7350	9000	11100	0.448
50	1210 K JP	1210 K TVH	90	20	1.1	22700	8100	8500	10500	0.504
55	1211 K JP	1211 K TVH	100	21	1.5	26800	10000	7500	9300	0.679
60	1212 K JP	1212 K TVH	110	22	1.5	30000	11500	6700	8500	0.864
65	1213 K JP	1213 K TVH	120	23	1.5	31000	12500	6300	7900	1.110
75	1215 K JP	1215 K TVH	130	25	1.5	39000	15700	6000	7900	1.310
80	1216 K JP	1216 K TVH	140	26	2.0	40000	17000	5600	7400	1.620
85	1217 K JP	1217 K TVH	150	28	2.0	49500	20600	5000	6800	2.03
90	1218 K JP	1218 K TVH	160	30	2.0	57000	23300	4800	6700	2.43
95	1219 K JP	1219 K TVH	170	32	2.1	64000	27000	4500	6600	3.28
100	1220 K JP	1220 K TVH	180	34	2.1	70000	29500	6000	6200	3.94
110	1222 K JP	1222 K TVH	200	38	2.1	89000	38000	5600	6100	5.49

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension r.
2) Normal production to be "JP" cages.

Technical supplement			
	Cages	Precision	Grease
	JP		
	TVH	Normal	Nil



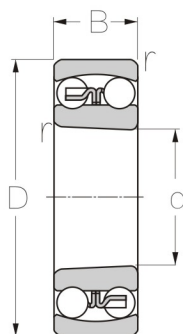
Tapered bore
taper 1:12

Inner bore d mm	Bearing numbers		Principal dimensions			Basic load ratings		Speed ratings		Weight kg(s).
			D	B mm	r s min ¹⁾	dynamic C _r N	static C _{0r}	Reference speed rpm	Limited speed rpm	
25	1305 K JP	1305 K TVH	62	17	1.1	18000	5000	13900	14000	0.251
30	1306 K JP	1306 K TVH	72	19	1.1	21300	6300	12200	11000	0.377
35	1307 K JP	1307 K TVH	80	21	1.5	25100	7850	10900	9500	0.492
40	1308 K JP	1308 K TVH	90	23	1.5	29600	9700	10000	8500	0.698
45	1309 K JP	1309 K TVH	100	25	1.5	38000	12700	9300	7500	0.938
50	1310 K JP	1310 K TVH	110	27	2.0	43500	14100	8700	6700	1.180
55	1311 K JP	1311 K TVH	120	29	2.0	51500	17900	8100	6000	1.560
60	1312 K JP	1312 K TVH	130	31	2.1	57000	20800	7300	5300	1.930
65	1313 K JP	1313 K TVH	140	33	2.1	63000	22700	5000	7100	2.410
75	1315 K JP	1315 K TVH	160	37	2.1	80000	29500	6600	6300	3.810
80	1316 K JP	1316 K TVH	170	39	2.1	89000	33000	6300	6000	4.500
85	1317 K JP	1317 K TVH	180	41	3.0	99000	37500	6000	5600	5.320
90	1318 K JP	1318 K TVH	190	43	3.0	109000	42500	5800	5300	6.270
95	1319 K JP	1319 K TVH	200	45	3.0	134000	50000	5700	5000	7.200
100	1320 K JP	1320 K TVH	215	47	3.0	145000	57000	5400	4800	8.950

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension r .

2) Normal production to be "JP" cages.

Technical supplement			
	Cages	Precision	Grease
	JP TVH	Normal	Nil

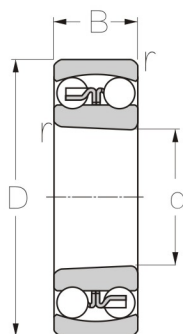


Tapered bore
taper 1:12

Inner bore d mm	Bearing numbers		Principal dimensions			Basic load ratings		Speed ratings		Weight kg(s).
			D	B mm	r s min ⁻¹	dynamic C _r N	static C _{0r}	Reference speed rpm	Limited speed rpm	
25	2205 K JP	2205 K TVH	52	18	1.0	12300	3450	14900	15000	0.153
30	2206 K JP	2206 K TVH	62	20	1.0	15200	4500	12700	12000	0.250
35	2207 K JP	2207 K TVH	72	23	1.1	21500	6600	11500	9500	0.382
40	2208 K JP	2208 K TVH	80	23	1.1	22300	7350	9700	9000	0.482
45	2209 K JP	2209 K TVH	85	23	1.1	23200	8150	8700	8500	0.528
50	2210 K JP	2210 K TVH	90	23	1.1	23200	8450	8000	8000	0.569
55	2211 K JP	2211 K TVH	100	25	1.5	26500	9900	7500	6700	0.769
60	2212 K JP	2212 K TVH	110	28	1.5	34000	12600	7100	6300	1.060
65	2213 K JP	2213 K TVH	120	31	1.5	58000	19000	5900	5300	1.330
75	2215 K JP	2215 K TVH	130	31	1.5	44500	17600	6200	5300	1.600
80	2216 K JP	2216 K TVH	140	33	2.0	49500	19800	6000	5000	1.970
85	2217 K JP	2217 K TVH	150	36	2.0	59000	23400	5800	7000	2.730
90	2218 K JP	2218 K TVH	160	40	2.0	71000	28500	5700	4300	3.180
95	2219 K JP	2219 K TVH	170	43	2.1	84000	34000	5600	6000	4.240
100	2220 K JP	2220 K TVH	180	46	2.1	98000	40000	5400	5600	5.100
110	2222 K JP	2222 K TVH	200	53	2.1	126000	51000	5200	5000	7.270

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension r.
2) Normal production to be "JP" cages.

Technical supplement			
	Cages	Precision	Grease
	JP TVH	Normal	Nil



Tapered bore
taper 1:12

Inner bore d mm	Bearing numbers		Principal dimensions			Basic load ratings		Speed ratings		Weight kg(s).
			D	B mm	r s min ⁻¹	C _r N	C _{0r}	Reference speed rpm	Limited speed rpm	
25	2305 K JP	2305 K TVH	62	24	1.1	24400	6600	14100	13000	0.326
30	2306 K JP	2306 K TVH	72	27	1.1	31500	8750	12300	10000	0.485
35	2307 K JP	2307 K TVH	80	31	1.5	39500	11300	11600	9000	0.653
40	2308 K JP	2308 K TVH	90	33	1.5	45000	13500	10300	8000	0.895
45	2309 K JP	2309 K TVH	100	36	1.5	54000	16700	9400	7000	1.200
50	2310 K JP	2310 K TVH	110	40	2.0	64500	20200	9000	6000	1.590
55	2311 K JP	2311 K TVH	120	43	2.0	75500	24000	8500	5600	2.050
60	2312 K JP	2312 K TVH	130	46	2.1	87000	28200	8000	5000	2.520
65	2313 K JP	2313 K TVH	140	48	2.1	98000	32000	7300	4800	3.160
75	2315 K JP	2315 K TVH	160	55	2.1	124000	42000	6700	6000	5.210
80	2316 K JP	2316 K TVH	170	58	2.1	139000	48500	6400	5600	6.180
85	2317 K JP	2317 K TVH	180	60	3.0	143000	51000	6100	5300	7.360
90	2318 K JP	2318 K TVH	190	64	3.0	156000	57000	5900	5000	8.600
95	2319 K JP	2319 K TVH	200	67	3.0	167000	63000	5600	4800	9.970
100	2320 K JP	2320 K TVH	215	73	3.0	196000	78000	5200	4500	12.700

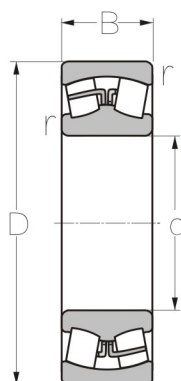
Note: 1) These values are the allowable minimum dimensions of the chamfer dimension r.

2) Normal production to be "JP" cages.

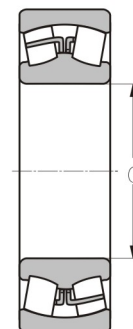
Technical supplement			
	Cages	Precision	Grease
	JP		
	TVH	Normal	Nil

Spherical Roller Bearings

SLB[®]



Cylindrical bore



Tapered bore

Inner bore d mm	Bearing numbers	Boundary dimensions			Basic load ratings				Speed ratings	
		D	B	r (s min ³)	dynamic C _r	static C _{0r}	dynamic C _r	static C _{0r}	Reference speed	Limited speed
			mm		N		kgf		rpm	
40	21308 MB W33	90	23	1.5	88000	90000	8950	9150	4900	6400
40	21308 MB/K W33	90	23	1.5	88000	90000	8950	9150	4900	6400
45	21309 MB W33	100	25	1.5	102000	106000	10400	10800	4400	5700
45	21309 MB/K W33	100	25	1.5	102000	106000	10400	10800	4400	5700
50	21310 MB W33	110	27	2.0	118000	127000	12000	12900	4000	5200
50	21310 MB/K W33	110	27	2.0	118000	127000	12000	12900	4000	5200
55	21311 MB W33	120	29	2.0	145000	163000	14800	16600	3700	4800
55	21311 MB/K W33	120	29	2.0	145000	163000	14800	16600	3700	4800
60	21312 MB W33	130	31	2.1	167000	191000	17100	19500	3400	4400
60	21312 MB/K W33	130	31	2.1	167000	191000	17100	19500	3400	4400
65	21313 MB W33	140	33	2.1	194000	228000	19800	23200	3100	4000
65	21313 MB/K W33	140	33	2.1	194000	228000	19800	23200	3100	4000
70	21314 MB W33	150	35	2.1	220000	262000	22400	26800	2900	3800
70	21314 MB/K W33	150	35	2.1	220000	262000	22400	26800	2900	3800
75	21315 MB W33	160	37	2.1	239000	287000	24300	29300	2700	3500
75	21315 MB/K W33	160	37	2.1	239000	287000	24300	29300	2700	3500
80	21316 MB W33	170	39	2.1	260000	315000	26500	32000	2500	3300
80	21316 MB/K W33	170	39	2.1	260000	315000	26500	32000	2500	3300
85	21317 MB W33	180	41	3.0	289000	355000	29500	36000	2400	3100
85	21317 MB/K W33	180	41	3.0	289000	355000	29500	36000	2400	3100
95	21319 MB W33	200	45	3.0	335000	420000	34000	43000	2100	2700
95	21319 MB/K W33	200	45	3.0	335000	420000	34000	43000	2100	2700
100	21320 MB W33	215	47	3.0	370000	465000	37500	47500	2000	2600
100	21320 MB/K W33	215	47	3.0	370000	465000	37500	47500	2000	2600

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension 1°.



Technical supplement

Cages

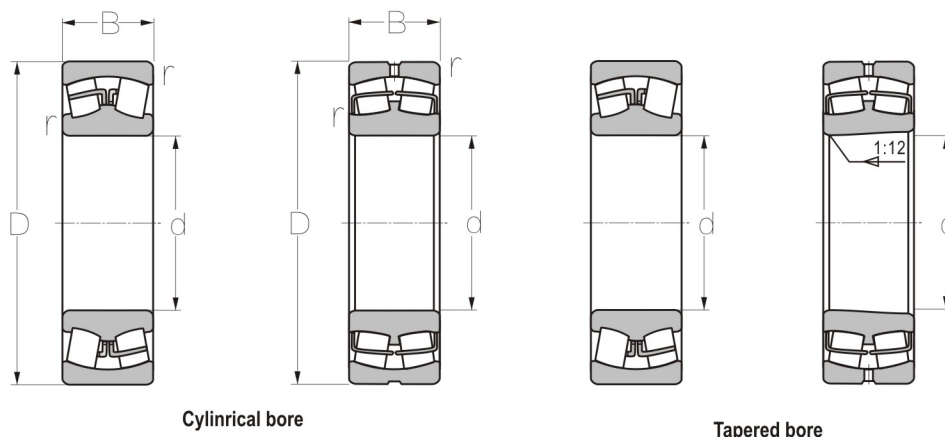
Steel -	X
Polymid -	X
Brass -	MB

Precision

Normal (ISO)

Grease

Nil



Inner bore d mm	Bearing numbers	Boundary dimensions			Basic load ratings				Speed ratings	
		D	B	r (s min ³)	dynamic C _r	static C _{0r}	dynamic C _r	static C _{0r}	Reference speed	Limited speed
		mm			N		kgf		rpm	
25	22205 MB W33	52	18	1.0	36500	36000	3750	3650	8500	11000
25	22205 MB/K W33	52	18	1.0	36500	36000	3750	3650	8500	11000
25	22205 CC W33	52	18	1.0	36500	36000	3750	3650	8500	11000
25	22205 CC/K W33	52	18	1.0	36500	36000	3750	3650	8500	11000
30	22206 MB W33	62	20	1.0	49000	49000	5000	5000	7500	9500
30	22206 MB/K W33	62	20	1.0	49000	49000	5000	5000	7500	9500
30	22206 CC W33	62	20	1.0	49000	49000	5000	5000	7500	9500
30	22206 CC/K W33	62	20	1.0	49000	49000	5000	5000	7500	9500
35	22207 MB W33	72	23	1.1	69500	71000	7050	7200	6500	8500
35	22207 MB/K W33	72	23	1.1	69500	71000	7050	7200	6500	8500
35	22207 CC W33	72	23	1.1	69500	71000	7050	7200	6500	8500
35	22207 CC/K W33	72	23	1.1	69500	71000	7050	7200	6500	8500
40	22208 MB W33	80	23	1.1	79000	88500	8050	9000	6000	7600
40	22208 MB/K W33	80	23	1.1	79000	88500	8050	9000	6000	7600
40	22208 CC W33	80	23	1.1	79000	88500	8050	9000	6000	7600
40	22208 CC/K W33	80	23	1.1	79000	88500	8050	9000	6000	7600
45	22209 MB W33	85	23	1.1	82500	95000	8400	9700	5300	6800
45	22209 MB/K W33	85	23	1.1	82500	95000	8400	9700	5300	6800
45	22209 CC W33	85	23	1.1	82500	95000	8400	9700	5300	6800
45	22209 CC/K W33	85	23	1.1	82500	95000	8400	9700	5300	6800
50	22210 MB W33	90	23	1.1	86000	102000	8750	10400	4900	6300
50	22210 MB/K W33	90	23	1.1	86000	102000	8750	10400	4900	6300
50	22210 CC W33	90	23	1.1	86000	102000	8750	10400	4900	6300
50	22210 CC/K W33	90	23	1.1	86000	102000	8750	10400	4900	6300

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension r.



Technical supplement

Cages

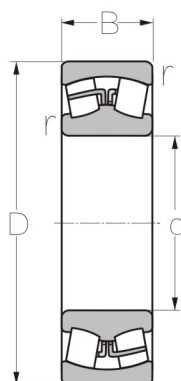
Steel -	CC
Polymid -	X
Brass -	MB

Precision

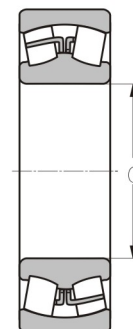
Normal
(ISO)

Grease

Nil



Cylindrical bore



Tapered bore

Inner bore d mm	Bearing numbers	Boundary dimensions			Basic load ratings				Speed ratings	
		D	B	f's min ³⁾	dynamic C _r	static C _{0r}	dynamic C _r	static C _{0r}	Reference speed	Limited speed
			mm		N		kgf		rpm	
40	22308 MB W33	90	33	1.5	121000	128000	12300	13000	4500	5900
40	22308 MB/K W33	90	33	1.5	121000	128000	12300	13000	4500	5900
45	22309 MB W33	100	36	1.5	148000	167000	15100	17000	4100	5300
45	22309 MB/K W33	100	36	1.5	148000	167000	15100	17000	4100	5300
50	22310 MB W33	110	40	2.0	186000	212000	19000	21600	3700	4800
50	22310 MB/K W33	110	40	2.0	186000	212000	19000	21600	3700	4800
55	22311 MB W33	120	43	2.0	204000	234000	20800	23900	3400	4400
55	22311 MB/K W33	120	43	2.0	204000	234000	20800	23900	3400	4400
60	22312 MB W33	130	46	2.1	238000	273000	24300	27800	3100	4000
60	22312 MB/K W33	130	46	2.1	238000	273000	24300	27800	3100	4000
65	22313 MB W33	140	48	2.1	265000	320000	27100	32500	2800	3700
65	22313 MB/K W33	140	48	2.1	265000	320000	27100	32500	2800	3700
75	22315 MB W33	160	55	2.1	330000	410000	33500	42000	2500	3200
75	22315 MB/K W33	160	55	2.1	330000	410000	33500	42000	2500	3200
80	22316 MB W33	170	58	2.1	385000	470000	39500	48000	2300	3000
80	22316 MB/K W33	170	58	2.1	385000	470000	39500	48000	2300	3000
85	22317 MB W33	180	60	3.0	415000	510000	42500	52000	2200	2900
85	22317 MB/K W33	180	60	3.0	415000	510000	42500	52000	2200	2900
95	22319 MB W33	200	67	3.0	500000	615000	51000	63000	1900	2500
95	22319 MB/K W33	200	67	3.0	500000	615000	51000	63000	1900	2500
100	22320 MB W33	215	73	3.0	605000	755000	61500	77000	1800	2400
100	22320 MB/K W33	215	73	3.0	605000	755000	61500	77000	1800	2400

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension 1".



Technical supplement

Cages

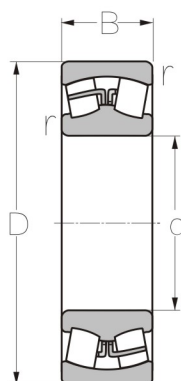
Steel -	X
Polymid -	X
Brass -	MB

Precision

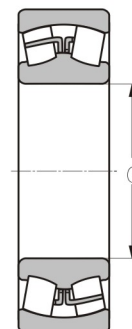
Normal (ISO)

Grease

Nil



Cylindrical bore



Tapered bore

Inner bore d mm	Bearing numbers	Boundary dimensions			Basic load ratings				Speed ratings	
		D	B	f's min ³⁾	dynamic C _r	static C _{0r}	dynamic C _r	static C _{0r}	Reference speed	Limited speed
			mm		N		kgf		rpm	
90	23218 MB W33	160	52.4	2.0	315000	455000	32500	46500	2200	2800
90	23218 MB/K W33	160	52.4	2.0	315000	455000	32500	46500	2200	2800
100	23220 MB W33	180	60.3	2.1	405000	580000	41500	59000	1900	2500
100	23220 MB/K W33	180	60.3	2.1	405000	580000	41500	59000	1900	2500
110	23222 MB W33	200	69.8	2.1	515000	760000	52500	77500	1700	2200
110	23222 MB/K W33	200	69.8	2.1	515000	760000	52500	77500	1700	2200
120	23224 MB W33	215	76.0	2.1	585000	880000	59500	89500	1500	2000
120	23224 MB/K W33	215	76.0	2.1	585000	880000	59500	89500	1500	2000
130	23226 MB W33	230	80.0	3.0	685000	1060000	70000	108000	1500	1900
130	23226 MB/K W33	230	80.0	3.0	685000	1060000	70000	108000	1500	1900
140	23228 MB W33	250	88.0	3.0	805000	1270000	82000	129000	1300	1700
140	23228 MB/K W33	250	88.0	3.0	805000	1270000	82000	129000	1300	1700
150	23230 MB W33	270	96.0	3.0	1080000	1460000	110160	148920	1600	2200
150	23230 MB/K W33	270	96.0	3.0	1080000	1460000	110160	148920	1600	2200

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension 1".



Technical supplement

Cages

Steel -	X
Polymid -	X
Brass -	MB

Precision

Normal
(ISO)

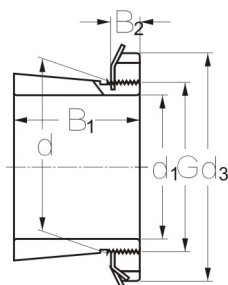
Grease

Nil

P-44

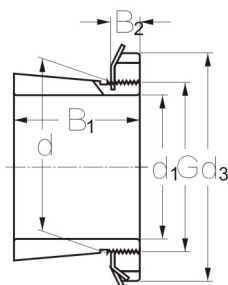
Adapter Sleeve

SLB[®]



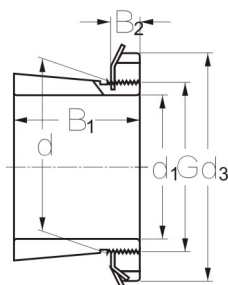
Inner bore d_1 mm	Bearing number	Principal dimensions					Lock nut	Locking device	Appropriate hydraulic nut	Weight kg(s).
		d	d_3	B_1 mm	B_2	G				
20	H 205	25	38	26	8.0	M 25 X 1.5	KM 5	MB 5	-	0.064
25	H 206	30	45	27	8.0	M 30 X 1.5	KM 6	MB 6	-	0.086
30	H 207	35	52	29	9.0	M 35 X 1.5	KM 7	MB 7	-	0.120
35	H 208	40	58	31	10.0	M 40 X 1.5	KM 8	MB 8	-	0.160
40	H 209	45	65	33	11.0	M 45 X 1.5	KM 9	MB 9	-	0.210
45	H 210	50	70	35	12.0	M 50 X 1.5	KM 10	MB 10	HMV 10	0.240
50	H 211	55	75	37	12.5	M 55 X 2.0	KM 11	MB 11	HMV 11	0.280
55	H 212	60	80	38	13.0	M 60 X 2.0	KM 12	MB 12	HMV 12	0.310
60	H 213	65	85	40	14.0	M 65 X 2.0	KM 13	MB 13	HMV 13	0.360
65	H 215	75	98	43	15.0	M 75 X 2.0	KM 15	MB 15	HMV 15	0.660
70	H 216	80	105	46	17.0	M 80 X 2.0	KM 16	MB 16	HMV 16	0.810
75	H 217	85	110	50	18.0	M 85 X 2.0	KM 17	MB 17	HMV 17	0.940
80	H 218	90	120	52	18.0	M 90 X 2.0	KM 18	MB 18	HMV 18	1.100
100	H 222	110	145	63	21.0	M 110X2.0	KM 22	MB 22	HMV 22	1.800

Technical supplement			
	Cages		Grease
	Steel -	☒	
	Polymid -	☒	
	Brass -	☒	
			



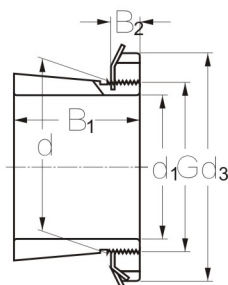
Inner bore d_1 mm	Bearing number	Principal dimensions					Lock nut	Locking device	Appropriate hydraulic nut	Weight kg(s).
		d	d_3	B_1 mm	B_2	G				
20	H 305	25	38	29	8.0	M 25 X 1.5	KM 5	MB 5	-	0.071
25	H 306	30	45	31	8.0	M 30 X 1.5	KM 6	MB 6	-	0.095
30	H 307	35	52	35	9.0	M 35 X 1.5	KM 7	MB 7	-	0.140
35	H 308	40	58	36	10.0	M 40 X 1.5	KM 8	MB 8	-	0.170
40	H 309	45	65	39	11.0	M 45 X 1.5	KM 9	MB 9	-	0.230
45	H 310	50	70	42	12.0	M 50 X 1.5	KM 10	MB 10	HMV 10	0.270
50	H 311	55	75	45	12.5	M 55 X 2.0	KM 11	MB 11	HMV 11	0.320
55	H 312	60	80	47	13.0	M 60 X 2.0	KM 12	MB 12	HMV 12	0.360
60	H 313	65	85	50	14.0	M 65 X 2.0	KM 13	MB 13	HMV 13	0.420
65	H 315	75	98	55	15.0	M 75 X 2.0	KM 15	MB 15	HMV 15	0.780
70	H 316	80	105	59	17.0	M 80 X 2.0	KM 16	MB 16	HMV 16	0.950
75	H 317	85	110	63	18.0	M 85 X 2.0	KM 17	MB 17	HMV 17	1.100
80	H 318	90	120	65	18.0	M 90 X 2.0	KM 18	MB 18	HMV 18	1.300
85	H 319	95	125	68	19.0	M 95 X 2.0	KM 19	MB 19	HMV 19	1.400
90	H 320	100	130	71	20.0	M 100X2.0	KM 20	MB 20	HMV 20	1.600
100	H 322	110	145	77	21.0	M 110X2.0	KM 22	MB 22	HMV 22	2.050

Technical supplement			
	Cages		Grease
	Steel -	☒	Normal (ISO)
	Polymid -	☒	
	Brass -	☒	
			Nil



Inner bore d_1 mm	Bearing number	Principal dimensions					Lock nut	Locking device	Appropriate hydraulic nut	Weight kg(s).
		d	d_3	B_1 mm	B_2	G				
20	H 2305	25	38	35	8.0	M 25 X 1.5	KM 5	MB 5	-	0.085
25	H 2306	30	45	38	8.0	M 30 X 1.5	KM 6	MB 6	-	0.110
30	H 2307	35	52	43	9.0	M 35 X 1.5	KM 7	MB 7	-	0.165
35	H 2308	40	58	46	10.0	M 40 X 1.5	KM 8	MB 8	-	0.224
40	H 2309	45	65	50	11.0	M 45 X 1.5	KM 9	MB 9	-	0.270
45	H 2310	50	70	55	12.0	M 50 X 1.5	KM 10	MB 10	HMV 10	0.340
50	H 2311	55	75	59	12.5	M 55 X 2.0	KM 11	MB 11	HMV 11	0.390
55	H 2312	60	80	62	13.0	M 60 X 2.0	KM 12	MB 12	HMV 12	0.450
60	H 2313	65	85	65	14.0	M 65 X 2.0	KM 13	MB 13	HMV 13	0.520
65	H 2315	75	98	73	15.0	M 75 X 2.0	KM 15	MB 15	HMV 15	1.100
70	H 2316	80	105	78	17.0	M 80 X 2.0	KM 16	MB 16	HMV 16	1.280
75	H 2317	85	110	82	18.0	M 85 X 2.0	KM 17	MB 17	HMV 17	1.350
80	H 2318	90	120	86	18.0	M 90 X 2.0	KM 18	MB 18	HMV 18	1.600
85	H 2319	95	125	90	19.0	M 95 X 2.0	KM 19	MB 19	HMV 19	1.800
90	H 2320	100	130	97	19.0	M 100X2.0	KM 20	MB 20	HMV 20	2.000
100	H 2322	110	145	105	21.0	M 110X2.0	KM 22	MB 22	HMV 22	2.750
110	H 2324	120	155	112	22.0	M 120X2.0	KM 24	MB 24	HMV 24	3.000
115	H 2326	130	165	121	23.0	M 130X2.0	KM 26	MB 26	HMV 26	4.450
125	H 2328	140	180	131	24.0	M 140X2.0	KM 28	MB 28	HMV 28	5.400
135	H 2330	150	195	139	26.0	M 150X2.0	KM 30	MB 30	HMV 30	6.400
140	H 2332	160	210	147	28.0	M 160X3.0	KM 32	MB 32	HMV 32	8.800

Technical supplement			
	Cages		Precision
	Steel -	☒	Normal (ISO)
	Polymid -	☒	
	Brass -	☒	
			Grease
			Nil



Inner bore d_1 mm	Bearing number	Principal dimensions					Lock nut	Locking device	Appropriate hydraulic nut	Weight kgs.
		d	d_3	B_1 mm	B_2	G				
110	H 3124	120	155	88	22	M 120 X 2	KM 24	MB 24	HMV 24	2.50
115	H 3126	130	165	92	23	M 130 X 2	KM 26	MB 26	HMV 26	3.45
125	H 3128	140	180	97	24	M 140 X 2	KM 28	MB 28	HMV 28	4.10
135	H 3130	150	195	111	26	M 150 X 2	KM 30	MB 30	HMV 30	5.25
140	H 3132	160	210	119	28	M 160 X 3	KM 32	MB 32	HMV 32	7.25

Technical supplement			
	Cages	Precision	Grease
	Steel - ☒		
	Polymid - ☒		
	Brass - ☒		
		Normal (ISO)	Nil