Bearings with Housings

Standard Length Double Bearings, Retained

Bearings with Housings – Standard Length Double Bearings, Retained

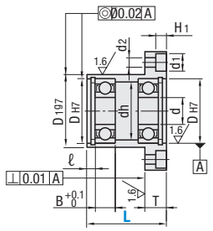
RoHS10

Type			Material		Surface Treatment	Accessory Retaining Ring
Round	Square	Compact	Bearings	Housing	Housing	
BGRBB	BGSBB	BGCBB	Steel	1045 Carbon Steel or Equivalent	Black Oxide	Spring Steel
BGRB	BGSB	BGCB			Electroless Nickel Plating	*304 Stainless Steel or Equivalent
BARB	BASB	BACB		2000 Series Aluminum Alloy	Clear Anodize	304 Stainless Steel or Equivalent
SBARB	SBASB	SBACB	Stainless Steel			
SBGRB	SBGSB	SBGCB		304 Stainless Steel or Equivalent	—	

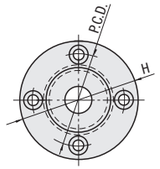
*Bearings with Rubber Seals (V V and DD) are all made of steel.

* When D=68–90, the retaining ring is Spring Steel + Electroless Nickel Plating.

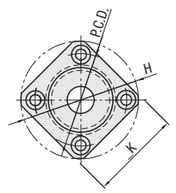
6.3 (1.6)



Round

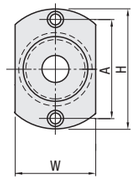


Square

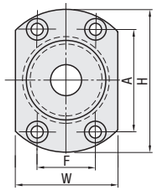


Compact

d3–17



d20–50



Bearing Accuracy JIS B 1514 Class 0

Part Number Type	Bearing No.	Seal	L Selection	d	D_{H7}	Tolerance	B	ℓ	H	W	T	dh	D_{1g7}	Tolerance	P.C.D.	K	A	F	d_1	d_2	H_1
Round BGRBB BGRB BARB SBARB SBGRB Square BGSBB BGSB BASB SBASB SBGSB Compact BGCBB BGCB BACB SBACB SBGCB	623	ZZ Double (Shielded) *VV Non-contact (Rubber Sealed) DD Contact (Rubber Sealed)	20 30	3	10	+0.015 0	4	2.65	33	16	7	7	14	-0.006 -0.024	24	27	24	—	6.5	3.5	3.1
	624		20 30	4	13	+0.018 0	5	2.65	35	18		9	17		26	28	26				
	605		20 30	5	14		5	2.65	36	20	8	10	18	-0.007 -0.028	26	30	26		8	4.5	4.1
	625		25 30		16		5	2.65	38	22		12	20		28	31	28				
	606		20 35	6	17		6	2.65	39	23		13	21		29	32	29				
	626		25 35		19	+0.021 0	6	2.65	41	25		15	24		31	34	31				
	698		25 35	8	19		6	2.65	41	25		15	24		31	34	31				
	608		25 35		22		7	2.65	45	29		18	27		35	36	35				
	628		25 35		24		8	2.85	47	32		20	30		37	37	37				
	6800		20 30	10	19		5	2.65	41	25		15	24		31	34	31				
	6900		25 40		22		6	2.65	45	29		19	27		35	36	35				
	6000		25 40		26		8	2.85	50	34		22	32	-0.009 -0.034	40	39	40				
	6200		30 40		30		9	2.85	54	38		24	36		44	42	44				
	6801		25 35	12	21		5	2.85	44	29		17	26	-0.007 -0.028	34	35	34				
	6901		25 40		24		6	2.85	48	31		21	30		38	38	38				
	6001		25 40		28		8	2.85	52	36		24	34	-0.009 -0.034	42	40	42				
	6201		30 40		32	+0.025 0	10	2.85	56	40		26	38		46	43	46				
	6802		25 35	15	24	+0.021 0	5	2.85	47	32		20	30	-0.007 -0.028	37	37	37				
	6902		25 50		28		7	2.85	57	37	10	25	35	-0.009 -0.034	45	45	45		9.5	5.5	5.1
	6002		30 50		32	+0.025 0	9	2.85	60	40		28	38		48	46	48				

*No. 623, 624, 605 and 606 are not available for V V (Non-contact rubber seals).

Chart continued on next page.

Bearings with Housings

Standard Length Double Bearings, Retained, *continued*

Part Number Type	Bearing No.	Seal	L Selection	d	D_{H7}	Tolerance	B	ℓ	H	W	T	dh	D_{1g7}	Tolerance	P.C.D.	K	A	F	d_1	d_2	H_1
Round BGRBB BGRB BARB SBARB SBGRB Square BGSBB BGSB BASB SBASB SBGSB Compact BGCBB BGCB BACB SBACB SBGCB	6202	ZZ Double (Shielded) *VV Non-contact (Rubber Sealed) DD Contact (Rubber Sealed)	35 50	15	35	+0.025 0	11	3.75	64	44	13	29	42	-0.009 -0.034	52	49	52	—	9.5	5.5	5.1
	6903		30 40	17	30	+0.021 0	7	2.85	60	38		27	36		48	46	48				
	6003		35 50		35	+0.025 0	10	3.75	66	44		31	42		54	50	54				
	6203		40 50		40		12	3.95	72	50		34	48		60	54	60				
	6804		35 50	20	32		7	3.75	60	40		28	38		48	46	38	29			
	6904		35 50		37		9	3.75	69	47	11	34	45		56	54	51	24	11	6.6	6.1
	6004		40 50		42		12	3.95	77	54		36	50		64	59	56	32			
	6204		45 50		47		14	3.95	81	58		40	54	-0.010 -0.040	68	62	59	34			
	6805		35 50	25	37		7	3.75	69	47		34	45	-0.009 -0.034	56	54	51	24			
	6905		35 50		42		9	3.95	77	54		36	50		64	59	56	32			
	6005		40 60		47		12	3.95	88	58		41	54	-0.010 -0.040	72	67	63	36	14	9	8.1
	6205		45 60		52	+0.030 0	15	4.2	94	64		45	60		78	72	68	39			
	6806		35 50	30	42	+0.025 0	7	3.95	77	54		36	50	-0.009 -0.034	64	59	56	32	11	6.6	6.1
	6906		35 50		47		9	3.95	88	58		41	54	-0.010 -0.040	72	67	63	36	14	9	8.1
	6006		40 60		55	+0.030 0	13	4.2	96	66		48	62		80	73	70	40			
	6206		50 60		62		16	4.2	104	74		55	70		88	79	77	44			
	6007		50 60		62		14	4.2	104	74		55	70		88	79	75	44			
	6207		60 80	35	72		17	6	126	88	20	64	84	-0.012 -0.047	105	95	92	51	17.5	11	11
	6008		60 70	40	68		15	5.2	114	82	13	60	78	-0.010 -0.040	96	86	80	54	14	9	8.1
	6208		60 80		80		18	6	134	96	20	74	92	-0.012 -0.047	113	102	98	56	17.5	11	11
	6010	ZZ (Double Shielded)	70	50	80		16	6	134	96		74	92		113	—	98	56			
	6210		90		90	+0.035 0	20	7	147	110		83	106		126	—	104	72			

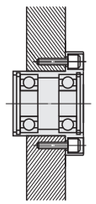
*No. 623, 624, 605 and 606 are not available for V V (Non-contact rubber seals).

Bearing No.	Seal	Available Types: Round BGRBB	BGRB	BARB	SBARB	SBGRB	Square BGSBB	BGSB	BASB	SBASB	SBGSB	Compact BGCBB	BGCB	BACB	SBACB	SBGCB
623	ZZ VV DD	•	•	•	—	—	•	•	•	—	—	•	•	•	—	—
624		•	•	•	—	—	•	•	•	—	—	•	•	•	—	—
605		•	•	•	—	—	•	•	•	—	—	•	•	•	—	—
625		•	•	•	—	—	•	•	•	—	—	•	•	•	—	—
606		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
626		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
698		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
608		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
628		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6800		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6900		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6000		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6200		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6801		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6901		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6001		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6201		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6802		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6902		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6002		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6202		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6903		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6003		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6203		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6804		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6904		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6004		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6204		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6805		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6905		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6005		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6205		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6806		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6906		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6006		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6206		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6007		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6207		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6008		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6208		•	•	—	—	—	•	•	—	—	—	•	•	—	—	—
6010		•	•	—	—	—	—	—	—	—	—	•	•	—	—	—
6210		•	•	—	—	—	—	—	—	—	—	•	•	—	—	—

Part Number Example

Part Number			- L
Type	Bearings	Seal	
BGRB	6000	ZZ	- 25
BARB	6903	VV	- 30

Application Example



Part Number Alterations

Part Number	-	L	-	(NA)
BGRB6000VV	-	25	-	NA

Alteration	Bearings, Retaining Rings Not Assembled
Code	NA
Spec.	Bearings are shipped unassembled to the housing.