

# Round Bearings with Housings - Overview



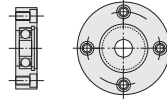
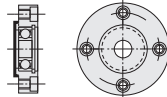
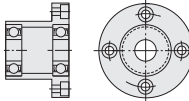
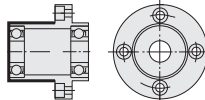
# Bearings with Housings

Space Saving, Small Flanged

## Features of Round Bearings with Housings




- Compared with Cast Iron, Pillow Blocks (P. 1027 to 1028), it is more suitable for areas requiring high precision in rotation.

## Types of Bearings with Housings

Shape		Basic Shape	Retaining Ring	Features	Retained	No Retaining Ring	
							
		Intended Purposes	• Prevents the bearings from falling off, and easy to handle		• Thinner shape compared to the product with a retaining ring		
Single (No. of Bearings inserted: 1 pc.)	Standard		<ul style="list-style-type: none"><li>• Use by retaining both ends of the shaft at two points</li><li>• Space saving type with smaller O.D. is also available</li></ul>	Small Flanged	P.930	P.930	
				Standard	P.931	P.935	
				Thrust Bearings	-	P.937	
				Low Dust Generation	P.957	P.957	
	Pilot		<ul style="list-style-type: none"><li>• Generally used for retaining the rotary shaft at several points</li><li>• The pilot shape is suitable for locating</li></ul>	Standard	P.933	-	
				Low Dust Generation	P.957	-	
	Double (No. of Bearings inserted: 2 pcs.)	Standard		<ul style="list-style-type: none"><li>• Can be used in heavy load applications compared to the single type</li><li>• Useful for cantilever support (Overall length can be specified for L Configurable)</li></ul>	Short	P.938	-
					Standard	P.939 (L Selectable)	P.943 (L Selectable)
P.941 (L Configurable)						P.945 (L Configurable)	
Low Dust Generation		P.958	P.958				
Pilot			<ul style="list-style-type: none"><li>• Can be used in heavy load applications compared to the single type</li><li>• The pilot shape is suitable for locating (Overall length can be specified for L Configurable)</li></ul>	Standard	P.947 (L Selectable)	P.951 (L Selectable)	
					P.949 (L Configurable)	P.953 (L Configurable)	
				Long	-	P.955	




## Selection List for Outer Ring Captured Bearings with Housings

Suitable for relatively high-loading uses such as heavy load / high-speed applications.


Shape	Shape	Page
Double		P.978
Double Pilot		P.979
T-Shaped Double		P.980

## Selection List of Angular Contact Bearings with Housings

Suitable for heavy load applications with thrust loads.

Shape	Shape	Page
Short Double		P.982
Double		P.983
Double Pilot		P.985

Features: By changing the conventional counterbored holes to tapped holes, this product has 4 to 13mm smaller flange dimensions which makes it suitable for use in limited spaces.

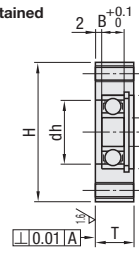


RoHS10

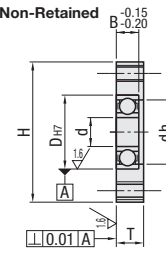
Type		Material		Surface Treatment
Retained	Non-Retained	Bearing	Housing	Housing
BGTAB	BGTNB	Steel	EN 1.1191 Equiv.	Black Oxide
BGTCA	BGTN		EN 1.4301 Equiv.	Electroless Nickel Plating
SBGTA	SBGTN	* Stainless Steel	EN 1.4301 Equiv.	-

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

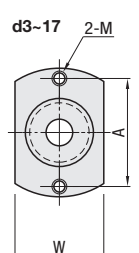
Retained



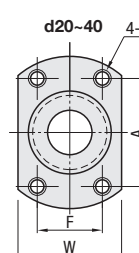
Non-Retained



d3-17



d20-40



For Non-Retained Type, bearing may protrude 0.1 ~ 0.2mm due to negative tolerance of B dimension.

Part Number		Seal	d	DH7	Tolerance	B	H	W	T	dh	A	F	M (Coarse)
Type	Bearing No.								Retained Non-Retained				
(Retained)	623	ZZ Double Shielded	3	10	+0.015	4	25	13	9	6	7	18	M4
	624		4	13	0	5	28	15	10	7	9	21	
	605		5	14	+0.018	5	32	17	10	7	10	23	
	625		5	16	0	5	34	19	10	7	12	25	
	606		6	17	+0.021	6	35	20	11	8	13	26	M5
	626		6	19		6	37	22	11	8	15	28	
	608		7	22		7	40	26	12	9	18	31	
	628		8	24		8	42	29	13	10	20	33	
	6900		22	22	0	6	40	26	11	8	19	31	M6
	6000		10	26		8	44	31	13	10	22	35	
	6200		30	30		9	48	35	14	11	24	39	
	6901		24	28		6	42	28	11	8	21	33	
(Non-Retained)	6001	*1 VV Non-Contact Sealed Rubber Seal *2 DD Contact Sealed Rubber Seal	12	28	+0.025	8	46	33	13	10	24	37	M8
	6201		32	32		10	50	37	15	12	26	41	
	6902		28	28		7	49	34	12	9	25	39	
	6002		32	35		9	53	37	14	11	28	43	
	6202		35	35	0	11	56	41	17	13	29	46	M10
	6903		30	35		7	51	35	12	9	27	41	
	6003		17	35		10	56	41	16	12	31	46	
	6203		40	40		12	61	47	18	14	34	51	
	6904		37	37	+0.025	9	64	44	15	11	34	45	M10
	6004		20	42		12	69	51	18	14	36	46	
	6204		47	47		14	74	55	20	16	40	50	
	6005		25	47		12	80	55	18	14	41	52	
	6205	+0.030	52	52	0	15	85	61	22	17	45	56	M10
	6006		13	55		13	88	63	20	15	48	59	
	6206		62	62		16	95	71	23	18	55	65	
	6007		35	62		14	95	71	21	16	55	65	
	6008		40	68		15	101	79	23	17	60	65	54

Check for available sizes in the price list.

\*1 No. 623, 624, 605 and 606 are not available for VV (Non-contact Sealed).

\*2 Bearings with Rubber Seals are all made of steel.

Ordering Example

Part Number		
Type	Bearing	Seal
BGTCA	6000	ZZ
BGTAB	6902	VV
BGTN	606	DD

Example



Alterations

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

Part Number - (NA)

BGTAB6000ZZ - NA

Bearing No.	Seal	Unit Price					
		BGTAB	BGTCA	SBGTA	BGTNB	BGTN	SBGTN
623	ZZ (x1.0)	-	-	-	-	-	-
624		-	-	-	-	-	-
605		-	-	-	-	-	-
625		-	-	-	-	-	-
606		-	-	-	-	-	-
626		-	-	-	-	-	-
608		-	-	-	-	-	-
628		-	-	-	-	-	-
6900		-	-	-	-	-	-
6000		-	-	-	-	-	-
6200		-	-	-	-	-	-
6901		-	-	-	-	-	-
6001	DD (x1.1)	-	-	-	-	-	-
6201		-	-	-	-	-	-
6002		-	-	-	-	-	-
6902		-	-	-	-	-	-

The price of sealed VV and DD are the price shown in the table multiplied by 1.1.

Bearing No.	Seal	Unit Price					
		BGTAB	BGTCA	SBGTA	BGTNB	BGTN	SBGTN
6002	ZZ (x1.0)	-	-	-	-	-	-
6202		-	-	-	-	-	-
6903		-	-	-	-	-	-
6003		-	-	-	-	-	-
6203		-	-	-	-	-	-
6904		-	-	-	-	-	-
6004		-	-	-	-	-	-
6204		-	-	-	-	-	-
6005		-	-	-	-	-	-
6205		-	-	-	-	-	-
6006		-	-	-	-	-	-
6206		-	-	-	-	-	-
6007	DD (x1.1)	-	-	-	-	-	-
6008		-	-	-	-	-	-