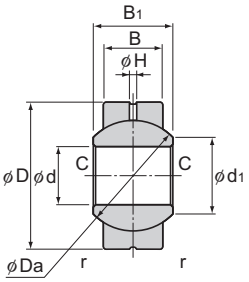
Model PBA (Die Cast Type)



Unit: mm

Model No.	Main dimensions							Ball diameter	Permissible tilt angles			Static applied load Radial	Mass
	Inner diameter d H7	Outer diameter D h8	Outer ring width B ±0.1	Inner ring width B_1 $^{0}_{-0.1}$	d_1	H	C, r	Da mm (inch)	α_1°	α_2°	α_3°	C_s N	g
PBA 5	5	16	6	8	7.7	1	0.3	11.112(7/16)	8	13	30	7840	8.5
PBA 6	6	18	6.75	9	9	1	0.3	12.7(1/2)	8	13	30	9800	13
PBA 8	8	22	9	12	10.4	1	0.5	15.875(5/8)	8	14	25	16700	24
PBA 10	10	26	10.5	14	12.9	1.2	0.5	19.05(3/4)	8	14	25	23500	39
PBA 12	12	30	12	16	15.4	1.5	0.5	22.225(7/8)	8	13	25	31400	58
PBA 14	14	34	13.5	19	16.9	1.5	0.7	25.4(1)	10	16	24	40200	84
PBA 16	16	38	15	21	19.4	2.5	0.7	28.575(1 1/8)	9	15	24	50000	111
PBA 18	18	42	16.5	23	21.9	2.5	0.7	31.75(1 1/4)	9	15	24	61800	160
PBA 20	20	46	18	25	24.4	2.5	0.7	34.925(1 3/8)	9	15	24	73500	210
PBA 22	22	50	20	28	25.8	2.5	0.7	38.1(1 1/2)	10	15	23	88200	265

[Material]

Outer ring : High strength zinc alloy (see A-942)
Spherical inner ring : SUJ2, 58 HRC or higher
(Hard chrome plated except for the inner surface of the inner ring)

[Fitting with the Shaft]

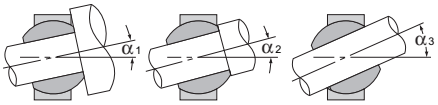
For the fitting between the shaft and the housing, the following values are recommended.

Condition		Shaft	Housing
Inner ring rotational load	Normal load	m6	H7
	Indeterminate load	n6	
Outer ring rotational load	Normal load	h7	M7
	Indeterminate load	k6	

[Clearance]

Unit: mm

Radial clearance	0.035 or less
Axial clearance	0.1 or less



Permissible Tilt Angles

[Lubrication]

Apply lubricant before using the product.
The holder has a greasing hole and an oil groove; they allow grease to be replenished through the grease nipple as necessary.