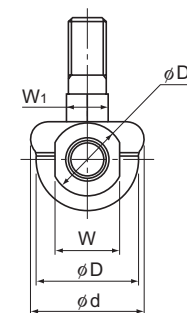
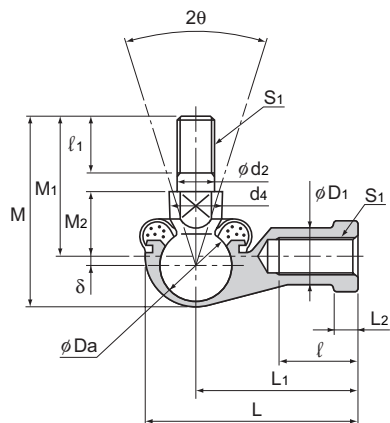


# Model RBL



Unit: mm

Model No.	Outer dimensions			Threaded S <sub>1</sub> JIS Class 2	Holder dimensions						Ball shank dimensions						Boot d	Eccentricity σ	Ball diameter D <sub>a</sub>	Permissible tilt angles 2θ°	Applied static load C <sub>s</sub> N	Yield-point strength P <sub>k</sub> N	Mass g
	Length L	Diameter D	Height M		L <sub>1</sub>	L <sub>2</sub>	ℓ	D <sub>1</sub>	D <sub>2</sub>	W 0 -0.3	d <sub>2</sub> h9	M <sub>1</sub>	M <sub>2</sub> ±0.3	ℓ <sub>1</sub>	W <sub>1</sub> 0 -0.3	d <sub>4</sub>							
RBL 5D	35	16	29	M5×0.8	27	4	14	9	11	9	5	21	10	8	7	9	19	1	11.112	45	9220	2250	24
RBL 6D	40	19	35.5	M6×1	30	5	14	10	13	11	6	26	11	11	8	10	20	1.2	12.7	45	12100	3530	37
RBL 8D	48	23	42.5	M8×1.25	36	5	17	12.5	16	14	8	31	14	12	10	12	24	2	15.875	45	19100	6570	67
RBL 10D	57	27	50.5	M10×1.25	43	6.5	21	15	19	17	10	37	17	15	11	14	30	2.5	19.05	45	27500	10700	110
RBL 10BD	57	27	56.5	M10×1.5	43	6.5	21	15	19	17	10	43	17	21	11	14	30	2.5	19.05	45	27500	10700	113
RBL 12D	66	31	57.5	M12×1.25	50	6.5	25	17.5	22	19	12	42	19	17	17	19	32	2	22.225	45	37500	16400	165
RBL 12BD	66	31	64.5	M12×1.75	50	6.5	25	17.5	22	19	12	49	19	24	17	19	32	2	22.225	45	37500	16400	170
RBL 14D	75	35	73.5	M14×1.5	57	8	26	20	25	22	14	56	21.5	22	17	19	38	2	25.4	45	48900	19800	255
RBL 14BD	75	35	79.5	M14×2	57	8	26	20	25	22	14	62	21.5	28	17	19	38	2	25.4	45	48900	19800	260
RBL 16D	84	39	79.5	M16×1.5	64	8	32	22	27	22	16	60	23.5	23	19	22	44	2	25.4	35	48900	26900	335
RBL 16BD	84	39	85.5	M16×2	64	8	32	22	27	22	16	66	23.5	29	19	22	44	2	25.4	35	48900	26900	340
RBL 18D	93	44	90	M18×1.5	71	10	34	25	31	27	18	68	26.5	25	20	23	48	4.5	28.575	35	61900	33300	465
RBL 20D	99	44	90	M20×1.5	77	10	35	27.5	34	30	20	68	27	25	24	29	50	2	28.575	35	61900	45900	540
RBL 22D	109	50	95	M22×1.5	84	12	41	30	37	32	22	70	28	26	24	27	54	5	31.75	27	75400	48000	715

Note) The model numbers in dimmed type indicate semi-standard types. We recommend using model BL on B-836 .

### [Material]

Holder : High strength zinc alloy (see A-926)  
 Ball shank : Lightly Carburized Carbon Steel Ball: 650 Hv or higher  
 Shank S35C  
 Chromate treatment  
 Boot : NBR special synthetic rubber

### [Spherical Clearance]

Perpendicular to the axis: 0.02 to 0.06mm  
 Axial direction : 0.3mm or less

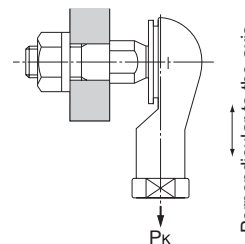
### [Tolerance of the Mating Hole of the Ball Shank]

H10 is recommended.

Note) The permissible tilting angle of types without boot are greater by approximately 5°.

### [Yield-Point Strength]

It indicates the strength in the direction shown in the figure below.



### [Lubrication]

Lithium soap group grease No. 2 is contained in the boot.

### [Identification of Left-hand Thread]

If the female threading is left-hand, symbol "L" is added. The actual product is marked with symbol "L" on the wrench flat.

### Model number coding

**RBL10 D L**  
 Model number  
 With boot attached  
 Left-hand thread