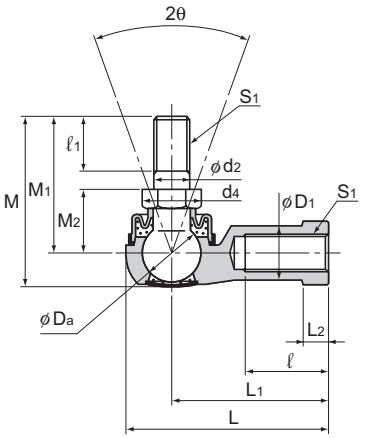
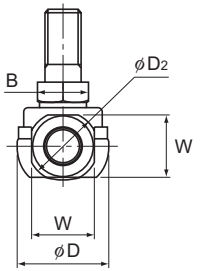
Model BL





Unit: mm

Model No.	Outer dimensions			Threaded	Holder dimensions						Ball shank dimensions						Ball diameter	Permissible tilt angles	Applied static load	Yield-point strength	Mass
	Length	Diameter	Height	S_1	L_1	ℓ	L_2	D_1	D_2	W	d_2	M_1	M_2	ℓ_1	Hexagon B	d_4	Da	2θ°	C_s	P_k	g
	L	D	M	JIS Class 2						0 −0.3	h9		±0.3		0 −0.3				N	N	
BL 6D	38	16	32.6	M6×1	30	16	5	10	13	11	6	26	11	11	10	11.6	11.112	40	9900	3920	26
BL 8D	45.5	19	38.6	M8×1.25	36	19	6	12.5	16	14	8	31	14	12	12	13.8	12.7	40	12500	6570	49
BL 10D	55.5	25	46.3	M10×1.25	43	23	7	14.5	19	17	10	37	17	15	14	16.2	15.875	40	18300	11300	87
BL 10BD	55.5	25	52.3	M10×1.5	43	23	7	14.5	19	17	10	43	17	21	14	16.2	15.875	40	18300	11300	90
BL 12D	64.5	29	52.7	M12×1.25	50	26	8	17.5	22	19	12	42	19	17	17	19.6	19.05	40	26700	16400	143
BL 12BD	64.5	29	59.7	M12×1.75	50	26	8	17.5	22	19	12	49	19	24	17	19.6	19.05	40	26700	16400	148
BL 14D	74	34	68.4	M14×1.5	57	30	10	20	25	22	14	56	21.5	22	19	21.9	22.225	40	36400	19800	235
BL 14BD	74	34	74.4	M14×2	57	30	10	20	25	22	14	62	21.5	28	19	21.9	22.225	40	36400	19800	245
BL 16D	83	38	74	M16×1.5	64	34	11	22	27	24	16	60	23.5	23	22	25.4	22.225	30	36400	26900	315
BL 16BD	83	38	80	M16×2	64	34	11	22	27	24	16	66	23.5	29	22	25.4	22.225	30	36400	26900	325

[Material]

Holder : High strength zinc alloy (see A-926)
Ball shank : Lightly Carburized Carbon Steel Ball: 650 Hv or higher
Shank S35C (20 to 28 HRC)
Chromate treatment
Boot : NBR special synthetic rubber

[Spherical Clearance]

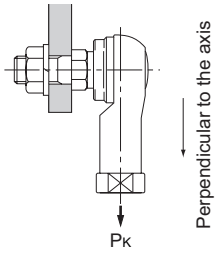
Perpendicular to the axis : 0.02 to 0.06mm
Axial direction : 0.3mm or less

[Tolerance of the Mating Hole of the Ball Shank]

H10 is recommended.

[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 and the cap.

[Identification of Left-hand Thread]

If the female threading is left-handed, its identification depends on the marking.

Threaded	Identification
	Cap marking
Right-hand	—
Left-hand	"L" mark

Model number coding

BL6 D L

- BL6: Model number
- D: With boot attached
- L: Left-hand thread