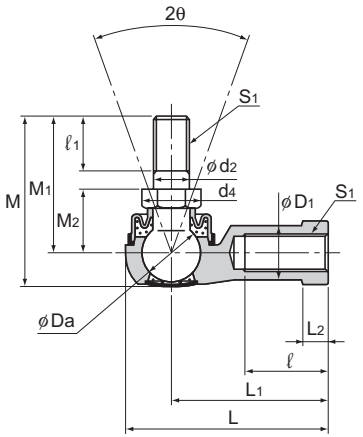
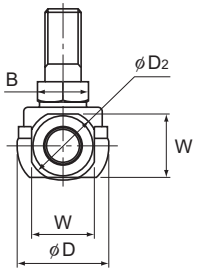
Model AL





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	
AL 4D	24.5	13	20	M4×0.7	18	8	4	7.5	9.5	8	4	15	7	6	7	8.1	7.938	40	4510	1370	7
AL 5D	34.5	15	26.7	M5×0.8	27	15	4	9	12	10	5	21	10	8	8	9.2	9.525	40	6470	2250	12
AL 6D	38.5	17	32.6	M6×1	30	16	5	10	13	11	6	26	11	11	10	11.6	11.112	40	9900	3920	18
AL 8D	46	20	38.6	M8×1.25	36	19	6	13	16	14	8	31	14	12	12	13.8	12.7	40	12500	6570	32
AL 10D	56	26	46.3	M10×1.25	43	23	7	15.5	19	17	10	37	17	15	14	16.2	15.875	40	18300	11300	65
AL 10BD	56	26	52.3	M10×1.5	43	23	7	15.5	19	17	10	43	17	21	14	16.2	15.875	40	18300	11300	68

[Material]

Holder : A-1 alloy (see A-925)
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]

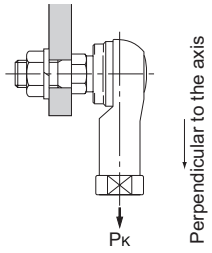
Perpendicular to the axis : 0.02 to 0.06mm
Axial direction : 0.3mm or less

[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

AL6 D L
Model number
With boot attached
Left-hand thread