3. Fits of Spherical Bearing Rod Ends

Fitted with Rod Ends.

Table 3.1 For shaft

With indeterminate loads	Normal conditions
n6, p6	h6, h7

Table 3.2 For thread

Male thread	Female thread
6g	6h

Table 3.3 Roughness of fitting surface (Unit : μm)

Fitting surface Bearing bore diameter "d" or outer diameter "D" Nominal bore diameter (mm) over	incl.	Shaft surface Ra≤	Bore surface of housing Ra≤	Side of shaft shoulder, washer, housing bore shoulder Ra≤
-	80	1.25	1.60	2.00
80	150	2.00	2.50	2.50

To look into the table with "d " for shaft, to look into the table with "D " for housing.

Table 3.4 Shape and position tolerance of fitting surface (Unit : μm)

d or D mm over	incl.	Cylindricity Housing bore max.	Cylindricity Shaft diameter max.	Side beat of round circuity Housing bore shoulder max.	Side beat of round circuity Shaft shoulder max.	Parallelism of two sides of washer max.
-	6	4	-	8	-	12
6	10	4	4	9	9	15
10	18	5	5	10	10	18
18	30	6	6	11	11	21
30	50	7	7	13	13	25
50	80	8	8	16	16	30
80	120	10	10	19	19	35
120	150	12	12	22	22	40

4. Radial Internal Clearance for Spherical Bearing Rod Ends

4.1 Maintenance-free type

Table 4.1 Radial internal clearance for BNM..K, BNF..K, DM, DF, RBL, RBI, DMSS and DFSS series.

(Unit : μm)

d mm over	incl.	Group min.	Group max.
-	12	32	68
12	20	40	82
20	30	50	100

4.2 Lubricant type

Table 4.2 Radial internal clearance for BNM and BNF series.

(Unit : μm)

d mm over	incl.	Group min.	Group max.
-	30	0	35