

1. Tolerance of machining measurement



Without customer's request, tolerance is made along **JIS: middle grade (the 2nd grade.)** Details are below.

① Tolerance to the measurement except beveling part.(mm)

Grade	Standard measurement categories						
	0.5≤ ≤3	3< ≤6	6< ≤30	30< ≤120	120< ≤400	400< ≤1000	1000< ≤2000
Precise	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
Middle	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
Coarse	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
Very coarse	–	±0.5	±1	±1.5	±2.5	±4	±6

② Tolerance to the measurement of beveling part (mm)

Grade	Standard measurement categories		
	0.5≤ ≤3	3< ≤6	6<
Precise	±0.2	±0.5	±1
Middle			
Coarse	±0.4	±1	±2
Very coarse			

③ Tolerance of the angle measurement (mm)

Grade	Standard measurement categories				
	≤10	10< ≤50	50< ≤120	120< ≤400	400<

Precise	$\pm 1^\circ$	$\pm 30'$	$\pm 20'$	$\pm 10'$	$\pm 5'$
Middle					
Coarse	$\pm 1^\circ 30'$	$\pm 1^\circ$	$\pm 30'$	$\pm 15'$	$\pm 10'$
Very coarse	$\pm 3^\circ$	$\pm 2^\circ$	$\pm 1^\circ$	$\pm 30'$	$\pm 20'$

2. Resin Hole Inner Diameter Measurement



Without customer's request, tolerance is made along JIS: middle grade (the 2nd grade.)

If the customer dose use the molding insert nut and dose not request inner-diameter, molding pin measurement is refered to "min" on the below table.

Metric parallel-knurling thread

Thread Size	2nd grade female-thread inner-diameter	
	max	min
M1×0.25	0.785	0.729
M1.1×0.25	0.885	0.829
M1.2×0.25	0.985	0.929
M1.4×0.3	1.142	1.075
M1.6×0.35	1.321	1.221
M1.7×0.35	1.421	1.321
M1.8×0.35	1.521	1.421
M2.0×0.4	1.679	1.567
M2.2×0.45	1.839	1.713
M2.3×0.4	1.979	1.867
M2.5×0.45	2.138	2.013
M2.6×0.45	2.238	2.113
M3×0.5	2.599	2.459
※M3×0.6	2.440	2.280

Thread Size	2nd grade female-thread inner-diameter	
	max	min
M3.5×0.6	3.010	2.850
M4×0.7	3.422	3.242
※M4×0.75	3.326	3.106
M4.5×0.75	3.878	3.688
M5×0.8	4.334	4.134
※M5×0.9	4.170	3.930
M6×1.0	5.153	4.917
M7×1.0	6.153	5.917
M8×1.25	6.912	6.647
M9×1.25	7.912	7.647
M10×1.5	8.676	8.376
M11×1.5	9.676	9.376
M12×1.75	10.441	10.106
M14×2.0	12.210	11.835
M16×2.0	14.210	13.835
M18×2.5	15.744	15.294
M20×2.5	17.744	17.294