

1. Material

1.1 Plastic Housing Material

1.1.1 PBT

Table 1.1.2 PBT Characters

Item No.	Items	Unit	Value
1	Tensile Strength	Mpa	≥ 75
2	Bending Strength	Mpa	≥ 110
3	Dent Impact Strength	J/M	≥ 35
4	Heat Deforming Pint	$^{\circ}\text{C}$	≥ 180
5	Glass Fiber Content	%	10 ± 2
6	Density	g/cm^3	1.5

1.2 Material for Inlaid Bush

1.2.1 Stainless Steel 304

1.3 Material for Nipple

1.3.1 Stainless Steel 304

2. Tolerance for Plastic Housings

Table 2.1 Tolerance on spherical inside diameter (Unit: 0.001 mm)

Nominal spherical inside diameter			H7				J7			
Da			Dam		Da		Dam		Da	
Over	Incl.		Deviations	Deviations	Deviations	Deviations	Deviations	Deviations	Deviations	
(mm)	(mm)		High	Low	High	Low	High	Low	High	Low
30	50		+25	0	+30	-5	+14	-11	+19	-16
50	80		+30	0	+36	-6	+18	-12	+24	-18
80	120		+35	0	+42	-7	+22	-13	+29	-20

Table 2.2 Centre Height Tolerance for PL-P200 and PL-PA200 series

Housing No.	h Deviations (mm)
PL-P204--210、PL-PA204--210	± 0.15

Table 2.3 Tolerance for PL-F200 and PL-FL200 series

Housing No.	e Deviations (mm)	i Deviations (mm)
PL-F204--210、PL-FL204-210	± 0.7	± 0.5

Table 2.4 Tolerance for PL-FC200 Series

Housing No.	f Deviations		e Deviations (mm)	i Deviations (mm)	Radial run-out of machined pilot Max. (mm)
	High (mm)	Low (mm)			
PL-FC204--208	0	-0.046	±0.70	±0.50	0.20
PL-FC209--210	0	-0.054	±0.70	±0.50	0.20

Table 2.5 Tolerance for PL-T200 Series

Housing No.	K Deviations		e Deviations (mm)	Parallelism of guide Max. (mm)
	High (mm)	Low (mm)		
PL-T204--210	±0.20	0	0 ~ -0.50	0.50