

Part A. Stainless Steel Housing

1. Stainless Steel Housing Material

Table 1.1 Material Characters for Housing

Stainless Steel 304 Chemical Contents in %								
Components	C \leq	Si \leq	Mn \leq	P \leq	S \leq	Cr	Ni	Mo \leq
Standard	0.08	2.0	1.5	0.04	0.04	18.0-21.0	8.0-11.0	0.5

Table 1.2 Material Mechanical Propertis

Item	Yield Strength Mpa \geq	Tensile Strength Mpa \geq	Extension Rate % \geq
Standard	205	480	35

1.3 Material for Nipple

1.3.1 Stainles Steel 304

2. Tolerance for Stainless Steel Housings

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

Nominal spherical inside diameter			H7				J7			
Da		Incl. (mm)	Dam		Da		Dam		Da	
Over (mm)	Deviations High Low		Deviations High Low	Deviations High Low	Deviations High Low	Deviations 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 Bolt Hole Tolerance for Stainless Housing

Bolt Hole	Over.6~Inlc.10 (mm)	Over.10~Inlc.18 (mm)	Over.18~Inlc.30 (mm)
Tolerance	0~+0.58	0~+0.70	0~+0.84

Table 2.3 Centre Height Tolerance for SS P 200 series

Housing No.	h Deviations (mm)
SS P 203--210、SS PA 203-210	± 0.15
SS P 211--212	± 0.20

Table 2.4 Tolerance for SS F 200、SS FL 200 and SS FB 200 Series

Housing No.	e Deviations (mm)	i Deviations (mm)
SS F 203--208、SS FL 203--208、 SS FB 204--208	± 0.7	± 0.5
SS F 209--212、SS FL 209--212、 SS FB 209--210	± 1	± 0.5

Table 2.5 Tolerance for SS FC 200 Series

Housing No.	f Deviations		e Deviations (mm)	i Deviations (mm)	Radial run-out of machined pilot Max. (mm)
	High (mm)	Low (mm)			
SS FC 204--208	0	-0.046	± 0.70	± 0.50	0.20
SS FC 209--210	0	-0.054	± 0.70	± 0.50	0.20

Table 2.6 Tolerance for SS T 200 Series

Housing No.	K Deviations		e Deviations (mm)	Parallelism of guide Max. (mm)
	High (mm)	Low (mm)		
SS T 204--210	± 0.20	0	0 ~ -0.50	0.50