

Standards and Service Limits

Cylinder Head/Valve Train — Section 6 —

	MEASUREMENT		STANDARD (NEW)	SERVICE LIMIT
Compression	200 rpm and wide open throttle	Nominal Minimum Maximum variation	1,400kPa (14.0kg/cm ² , 199psi) 1,000kPa (10.0kg/cm ² , 142psi) 200kPa (2.0 kg/cm ² , 28psi)	
Cylinder head	Warpage Height		— 99.95-100.05 (3.935-3.939)	0.05 (0.002) —
Camshaft	End play Camshaft-to-holder oil clearance Total runout Cam lobe height	IN EX	0.05-0.15 (0.002-0.006) 0.050-0.089 (0.0020-0.0035) 0.03 (0.001) 40.345 (1.5884) 37.934 (1.4935)	0.15 (0.006) 0.10 (0.004) 0.04 (0.002) — —
Valve	Valve clearance Valve stem O.D. Stem-to-guide clearance	IN EX IN EX IN EX	0 (Hydraulic tappets, Auto-adjuster type) 0 (Hydraulic tappets, Auto-adjuster type) 5.48-5.49 (0.2157-0.2161) 5.45-5.46 (0.2146-0.2150) 0.02-0.05 (0.001-0.002) 0.05-0.08 (0.002-0.003)	— — 5.45 (0.215) 5.42 (0.213) 0.08 (0.003) 0.11 (0.004)
Valve seat	Width Stem installed height	IN EX IN EX	1.25-1.55 (0.049-0.061) 1.25-1.55 (0.049-0.061) 46.935-47.425 (1.8478-1.8671) 47.885-48.375 (1.8852-1.9045)	2.0 (0.08) 2.0 (0.08) 47.625 (1.8750) 48.575 (1.9124)
Valve spring	Free length	IN EX	49.15 (1.935) *1 49.10 (1.933) *2 50.16 (1.975) *1 50.17 (1.975) *2	— — — —
Valve guide	I.D. Installed height	IN and EX IN and EX	5.51-5.53 (0.217-0.218) 15.75-16.25 (0.620-0.640)	5.55 (0.219) —
Rocker arm	Arm-to-shaft clearance		0.018-0.054 (0.0007-0.0021)	0.08 (0.003)

*1: NIHON HATSUJO manufactured valve spring, *2: CHUO HATSUJO manufactured valve spring