

Piston ring

Item	Measurement	Qualification	Standard or New	Service Limit
Piston ring	Ring-to-groove clearance	Top	0.055-0.080 mm (0.0022-0.0031 in.)	0.15 mm (0.006 in.)
		Second	0.030-0.055 mm (0.0012-0.0022 in.)	0.13 mm (0.005 in.)
	Ring end gap	Top	0.15-0.30 mm (0.006-0.012 in.)	0.50 mm (0.020 in.)
		Second	0.35-0.50 mm (0.014-0.020 in.)	0.70 mm (0.028 in.)
		Oil	0.20-0.70 mm (0.008-0.028 in.)	0.80 mm (0.031 in.)