

COOLING (1UZ-FE)

SERVICE DATA

SS0HJ-03

Thermostat	Valve opening temperature Valve lift at 95°C (203°F)	80 – 84°C (176 – 183°F) 10 mm (0.39 in.) or more
Radiator cap	Relief valve opening pressure STD Minimum	74 – 103 kPa (0.75 – 1.05 kgf/cm ² , 10.7 – 14.9 psi) 59 kPa (0.6 kgf/cm ² , 8.5 psi)
Hydraulic pump	Fluid temperature Maximum stroke Oil pressure Spool valve compression spring Rotor side clearance STD (Drive rotor) (Driven rotor) Maximum (Drive rotor) (Driven rotor) Rotor body clearance STD Maximum Rotor tip clearance STD Maximum Drive shaft bushing inside diameter Drive shaft diameter Drive shaft oil clearance STD Maximum Drive shaft preload (rotating torque) Pulley end and drive shaft end STD Minimum	70 – 90°C (176 – 194°F) 5 mm (0.20 in.) 1.177 – 2.452 kPa (12 – 25 kgf/cm ² , 171 – 356 psi) 45.8 mm (1.803 in.) 0.02 mm (0.0008 in.) 0.03 mm (0.0012 in.) 0.03 mm (0.0012 in.) 0.04 mm (0.0016 in.) 0.05 – 0.09 mm (0.0020 – 0.0035 in.) 0.10 mm (0.0039 in.) 0.02 mm (0.0008 in.) 0.03 mm (0.0012 in.) 17.000 – 17.050 mm (0.6693 – 0.6713 in.) 16.970 – 16.980 mm (0.6681 – 0.6685 in.) 0.020 – 0.080 mm (0.0008 – 0.0031 in.) 0.08 mm (0.0031 in.) 0.3 N·m (3.0 kgf·cm, 2.7 in.-lbf) 1.3 – 1.7 mm (0.051 – 0.067 in.) 1.0 mm (0.039 in.)
Hydraulic motor	Rotor side clearance STD Maximum Drive shaft hole inside diameter Drive shaft diameter Drive shaft oil clearance STD Maximum Drive shaft preload (rotating torque)	0.01 – 0.04 mm (0.0004 – 0.0016 in.) 0.05 mm (0.0020 in.) 14.000 – 14.011 mm (0.5512 – 0.5516 in.) 13.973 – 13.984 mm (0.5501 – 0.5506 in.) 0.016 – 0.038 mm (0.0006 – 0.0015 in.) 0.04 mm (0.0031 in.) 0.3 N·m (3.0 kgf·cm, 2.6 in.-lbf)
ECT sensor	Resistance at 80°C (176°F)	1.48 – 1.58 kΩ
Solenoid valve	Resistance at 20°C (68°F)	7.5 – 8.5 Ω