

**== S175LC-V(ECOEF) Calibration Data ==**

- (1) Injection pump assembly : 65.11101-7389A (101605-810A DOOWON)
  - Injection pump : KP-PES6AD100B410R (101062-826A)
  - Governor : KP-EP/RSV200-1350AQ49A311(105411-2240)
  - Plunger and barrel : 131150-2600, 131100-8600
  - Delivery valve : 131110-5520
  - Feed pump : KP-FP/KS-AD (105220-6490)
  - Prestroke : 3.8±0.05mm
  - Coupling : 156639-882C
- (2) Nozzle holder assembly : 65.10101-7091 (105160-5330 DOOWON)
- (3) Nozzle : 65.10102-6061 (105025-4000 DOOWON)
- (4) Injection pipe: : 65.10301-6088, 65.10301-6089
- (5) Injection order: : 1 – 5 – 3 – 6 – 2 – 4

(A) Test condition for injection pump	Nozzle & holder ass'y	105780-8140	Opening pressure : 175kg/cm <sup>2</sup>
	Injection pipe(IDxODxL)	-	φ2.0 x φ6.0 – 600 mm
	Test oil	ISO4113	Temperature : 40 ±5°C
(B) Engine standard parts	Nozzle & holder ass'y	65.10102-6061	Nozzle (6 x φ0.235)
		65.10101-7091	190 kg/cm <sup>2</sup>
	Injection pipe(IDxODxL)	65.10301-6088,6089	φ1.8xφ6.0x912mm

Rack diagram and setting valve at each point : Specification of standard pump(65.11101-7389)

Power	Check Point	Rack position (mm)	Pump speed (rpm)	Injection Q'ty on RIG (mm <sup>3</sup> / 1,000st)		Press. (mmHg)
				(A) Test condition for inj. pump	(B) Engine standard parts	
	A	R1(10.3)	1,100	95 ±1.5	85.8 ±2	Above 450
	B	6.6	600	22 ±2.0		-
	C	R1	500	(84)	95.2	Above 450
	D	(R1-1.5)	500	-	69.9	-
	E	-	100	96±10		-
	Boost pressure : zero boost					

**Fuel injection pump**

Plunger	φ10 Left hand 20+50 lead	Delivery valve	retraction pressure	59mm <sup>3</sup> /st(φ6x2.1mm)
Max. pump speed (limit plunger bouncing)	2,100 rpm		opening pressure	20.8 kgf/cm <sup>2</sup>
Holder delivery valve with damping valve	-		Spring	k=1.63 kgf/mm

**Governor**

Governor weight	740 g	Lever ratio (min. speed / max. speed)	1 : 1.2 / 1 : 1.2
Governor spring	k=10 kgf/mm	Idling sub spring	k=2.1 kgf/mm
Idling spring	k=2.6 kgf/mm	Start spring	k=0.005 kgf/mm
Boost compensator spring	k=0.6 kgf/mm		

**Feed pump**

Max. operating pressure	3.4 kgf/cm <sup>2</sup>	Piston spring	k=0.735 kgf/mm
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(6) Rack curve and boost pressure of standard injection pump(65.11101-7389)

