

## 1. SPECIFICATIONS

### 1.1 GENERAL

1. Hydraulic oil specifications ..... Transmission fluid  
DAEDONG (UTF55)  
Exxon  
(Mobilfluid 423 or 424)  
BP (Tractran UTH)  
Shell  
(DONAX-TD)
2. Oil capacity (including transmission fluid)..... 36ℓ (9.5 gal)

### 1.2 HST

1. HST type..... Variable piston pump
2. Manufacturer..... Kanzaki
3. Model..... KHS-42 JAS
4. Pump capacity  
(based on input shaft  
of 2600 rpm) ..... 0 ~ 42.4 cm<sup>3</sup>/rev  
0 ~ 2.59 cu in./rev
5. motor capacity  
(based on input  
shaft of 2600 rpm)..... 42.4 cm<sup>3</sup>/rev  
2.59 cu in./rev
6. Relief valve pressure ..... 34.3 ± 2 MPa  
350 kgf/cm<sup>2</sup>  
4975 PSI
7. Charge relief pressure ..... 1.76 ± 0.2 MPa  
18 kgf/cm<sup>2</sup>  
255 PSI
8. Angle of swash  
plate in pump ..... -18° ~ 18°
9. Angle of swash plate  
in motor..... 18°
10. Cruise magnet  
clearance ..... 1 ~ 1.5 mm  
0.039 ~ 0.059 in.
11. Control type ..... Servo piston control

### 1.3 MAJOR TIGHTENING TORQUE

1. Forward/reverse relief  
valve ..... 34.3 ± 3 Nm  
3.5 kgf-m  
25.3 lb-ft
2. Forward/reverse neutral  
valve ..... 34.3 ± 3 Nm  
3.5 kgf-m  
25.3 lb-ft
3. Pressure test port  
plug ..... 12.3 ± 1.2 Nm  
1.25 kgf-m  
9.07 lb-ft
4. Front cover (head)  
bolt (M10)..... 44.1 ± 4 Nm  
4.5 kgf-m  
32.5 lb-ft
5. Servo piston cover  
bolt (M8)..... 24.5 ± 2.5 Nm  
2.5 kgf-m  
18 lb-ft
6. Servo control lever  
cover (M8)..... 24.5 ± 2.5 Nm  
2.5 kgf-m  
18 lb-ft
7. Hydraulic pipe joint bolt
  - Oil cooler inlet/outlet..... 39 Nm  
4 kgf-m  
29 lb-ft
  - HST filter inlet/outlet..... 39 ~ 44 Nm  
4 ~ 4.5 kgf-m  
29 ~ 32.5 lb-ft