	Port name	Port size	On delivery	Tightening N·m torque
A	Delivery port	SAE J518C High pressure (code 62) 3"	Covered with tape	235
В	Suction port	SAE J518C Std. pressure (code 61) 1.1/2"	Covered with tape	235
Dr	Drain port	SAE J1926/1 Straight thread O-Ring boss 3/4" O. D Tube 1·1/16-12UN-2B	Attached with steel plug	167
Pι	Load sensing port (Type LO, L1)	SAE J1926/1 Straight thread 0-Ring boss	Attached with steel plug	12
P <sub>c</sub>	Pressure control port (Type PO)	1/4" O. D Tube 7/16-20UNF-2B		
Tair	Air bleeder port	SAE J1926/1 Straight thread O-Ring boss 1/4" O. D Tube 7/16-20UNF-2B	Attached with steel plug	12

## Notes on mounting and operation

- (1) The pump shaft and flange surfaces should be cleaned. Remove an anti-rust material.
- (2) Do not apply any form of axial loading to the pump shaft.
- (3) The uppermost drain port should be used and the drain piping should be so connected as to keep the casing filled with oil.
- (4) Keep the casing pressure below 1 bar (14 psi) normally, and
  - below 4 bar (58 psi) at its peak.
- (5) Make sure the drain piping led into the oiltank is kept below the surface of the oil (to prevent airation).
- (6) Make sure the suction pressure in the suction flange is kept above 0 bar (0 psi) normally.
- (7) Mineral antiwear type hydraulic oil should be used.
- (8) For satisfactory service life of the pump in application, the operating fluid should be continuously filtered to a minimum cleanliness level of NAS1638 class 9 or 18/15 to ISO/DIS 4406.
- (9) Provide a 150 mesh (100  $\mu$  m) strainer in the suction line.
- (10) Install a  $10\,\mu$ m filter in the return line.
- (11) Allowable oil temperature range : -20 $\sim$ 95°.
- (12) Oil viscosity range :  $10\sim1000$ cSt when  $200\sim1000$ cSt, take warming up before real working. (13) Caution for the vertical mounting.
- - The oil level in the tank should be upper than the pump mounting flange. (fig. 1) if the oil level is lower than the pump level, forced lubrication should be made from the air bleeder port. (flow  $1\sim2$  l/min)
- (a) Installation within a tank
- (1) Open the drain port and the air bleeder port.
- (b) Installation outside a tank (fig. 2)
- 1) Pipe the drain port and the air bleeder port to tank.
- (2) If the pipe for draining or air bleeding is upper than the oil level, it should be filled with oil before starting the pump.

4-5/8-11UNC-2B (In case of k3VL200/B-1AR \$ S >

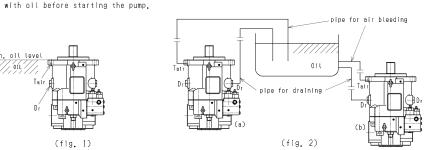
K3VL200/B-1AR M

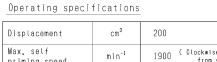
4-M16 depth 24 / In case of

A : 4.0

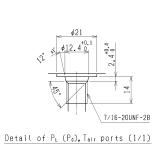
Detail of

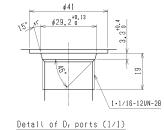
adjustment screw (2/1)

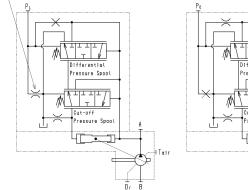








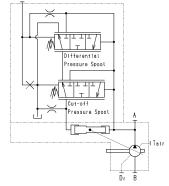




Hydraulic circuit (Type L0, L1)

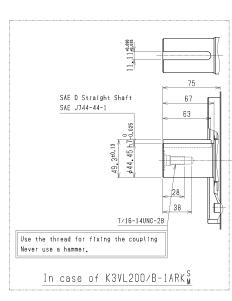
LATEST CHECKER DRAWN

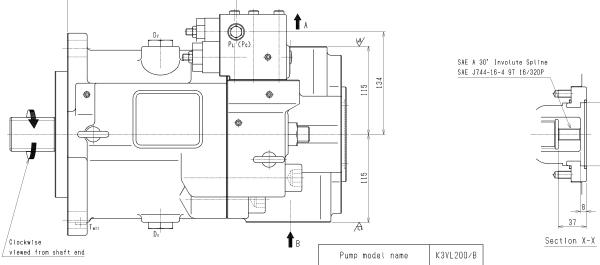
For Type L1 This orifice is pluged.



Hydraulic circuit (Type P0)

DREAKED 3 - CHECKED 2 - CHECKED L - APPROVED -

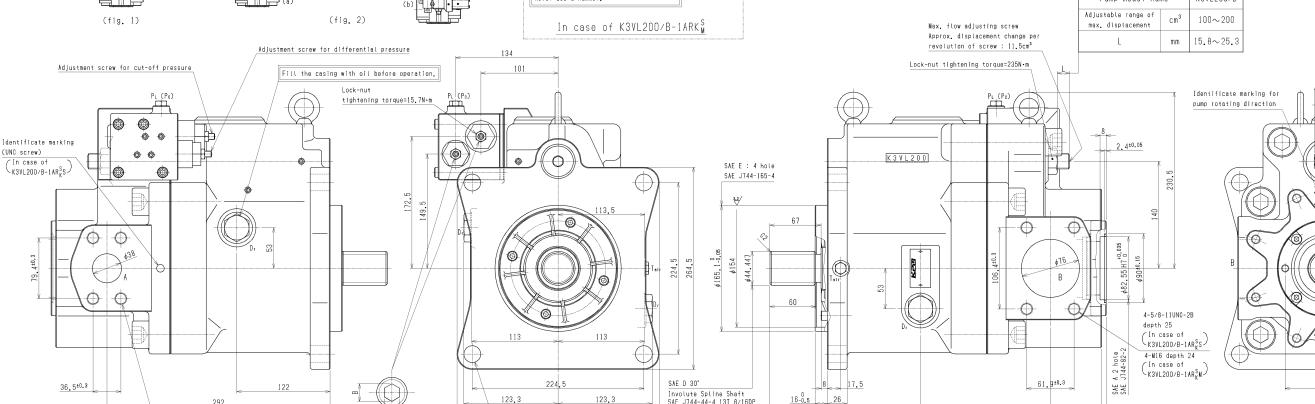




292

359

365



264.5

Tightening torque: 367~496N·m for M20 of strength class 10.9 of JIS Recommend to use washers

√4-ø22 through

Recommended

--2-M10 depth 20 106±0.2 M\_Ohnishi K. Watsuda K3VL200/B-1AR SS - PO 1/2.5 3 RD ANGLE PROJECTION INSTALLATION DIMENSIONS 02430-4702 Sep. 12, 2005 KPT Kawasaki Precision Machinery Ltd.