

Port name	Port size	On delivery	Tightening torque N·m
A Delivery port	SAE J518C High pressure (Code 62) 1-1/2"	Covered with tape	235
B Suction port	SAE J518C Std. pressure (Code 61) 3"	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
P _L Load sensing port (Type L0/L1/L1/1)	SAE J1926/1 Straight thread O-Ring boss 1/4" O. D Tube 7/16-20UNF-2B	Attached with steel plug	12
P _C Pressure control port (Type P0/1)	SAE J1926/1 Straight thread O-Ring boss 1/4" O. D Tube 7/16-20UNF-2B	Attached with steel plug	12
T _{air} 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
P _{sv} Servo assist port	SAE J1926/1 Straight thread O-Ring boss 3/8" O. D Tube 9/16-18UNF-2B	Attached with vinyl plug	45
a Gage port			

Operating specifications

Displacement	cm ³	200
Max. self priming speed	min ⁻¹	1900 (Clockwise viewed from shaft end)
Rated pressure	MPa	32
Peak pressure	MPa	35
Pump model name		K3VL200/B-1 ^{SS} _N R ^{SS} _{KM} L ^{LO} _{PO} /1-E0

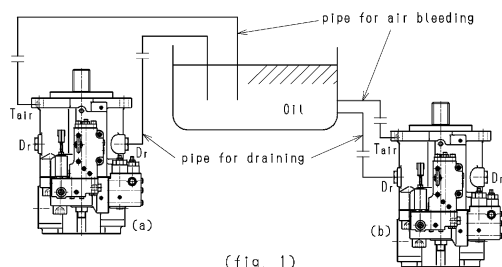
Notes on mounting and operation

- The pump shaft and flange surfaces should be cleaned. Remove an anti-rust material.
- Do not apply any form of axial loading to the pump shaft.
- The uppermost drain port should be used and the drain piping should be so connected as to keep the casing filled with oil.
- Keep the casing pressure below 1 bar (14 psi) normally, and below 4 bar (58 psi) at its peak.
- Make sure the drain piping led into the oil tank is kept below the surface of the oil (to prevent airtation).
- Make sure the suction pressure in the suction flange is kept above 0 bar (0 psi) normally.
- Mineral antiwear type hydraulic oil should be used.
- 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.
- Provide a 150 mesh (100μm) strainer in the suction line.
- Install a 10μm filter in the return line.
- Allowable oil temperature range: -20~95°C.
- Oil viscosity range: 10~1000cSt when 200~1000cSt, take warming up before real working.
- Caution for the vertical mounting.

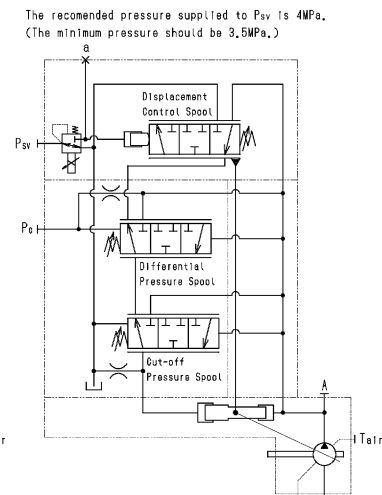
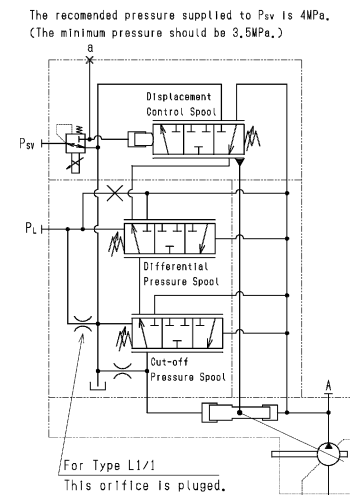
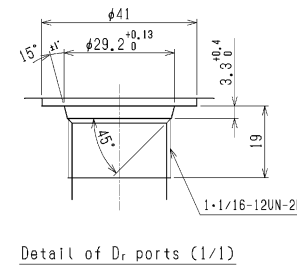
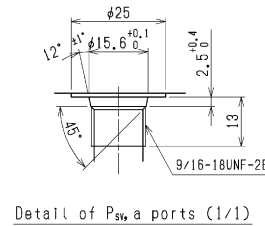
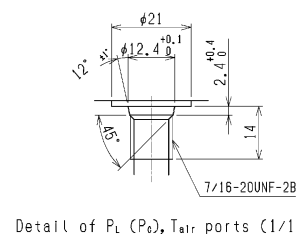
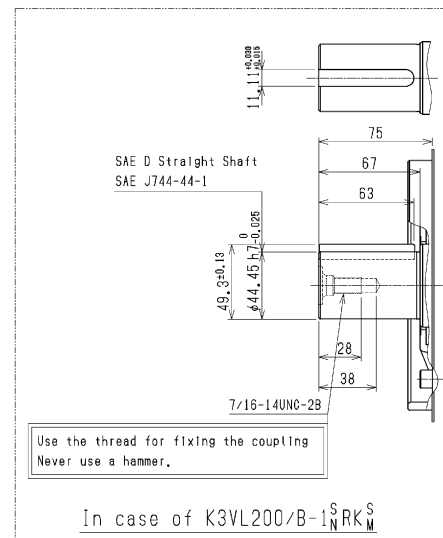
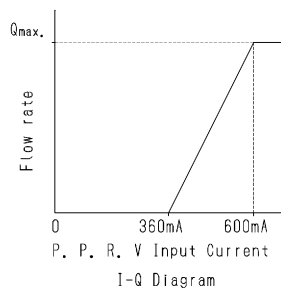
The oil level in the tank should be upper than the pump mounting flange, (fig. 1)

If the oil level is lower than the pump level, forced lubrication should be made from the air bleeder port. (flow 1~2 l/min)

- Pipe the drain port and the air bleeder port to tank.
- If the pipe for draining or air bleeding is upper than the oil level, it should be filled with oil before starting the pump.

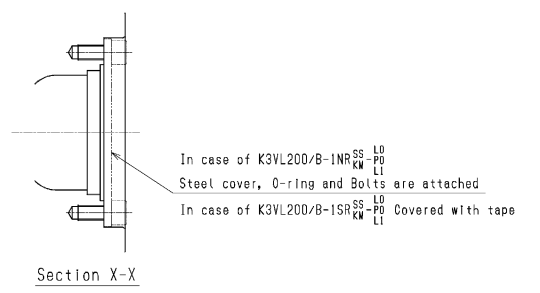
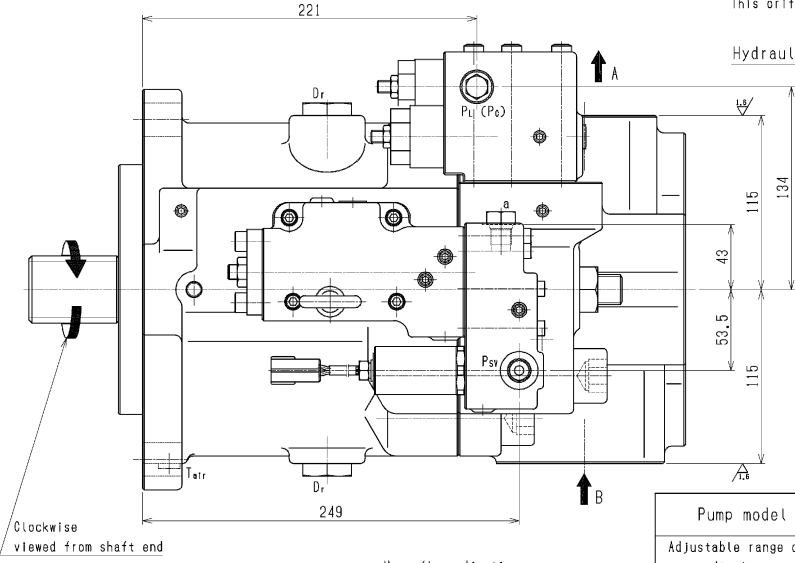


(fig. 1)



Hydraulic circuit (Type L0/L1, L1/1)

Hydraulic circuit (Type P0/1)

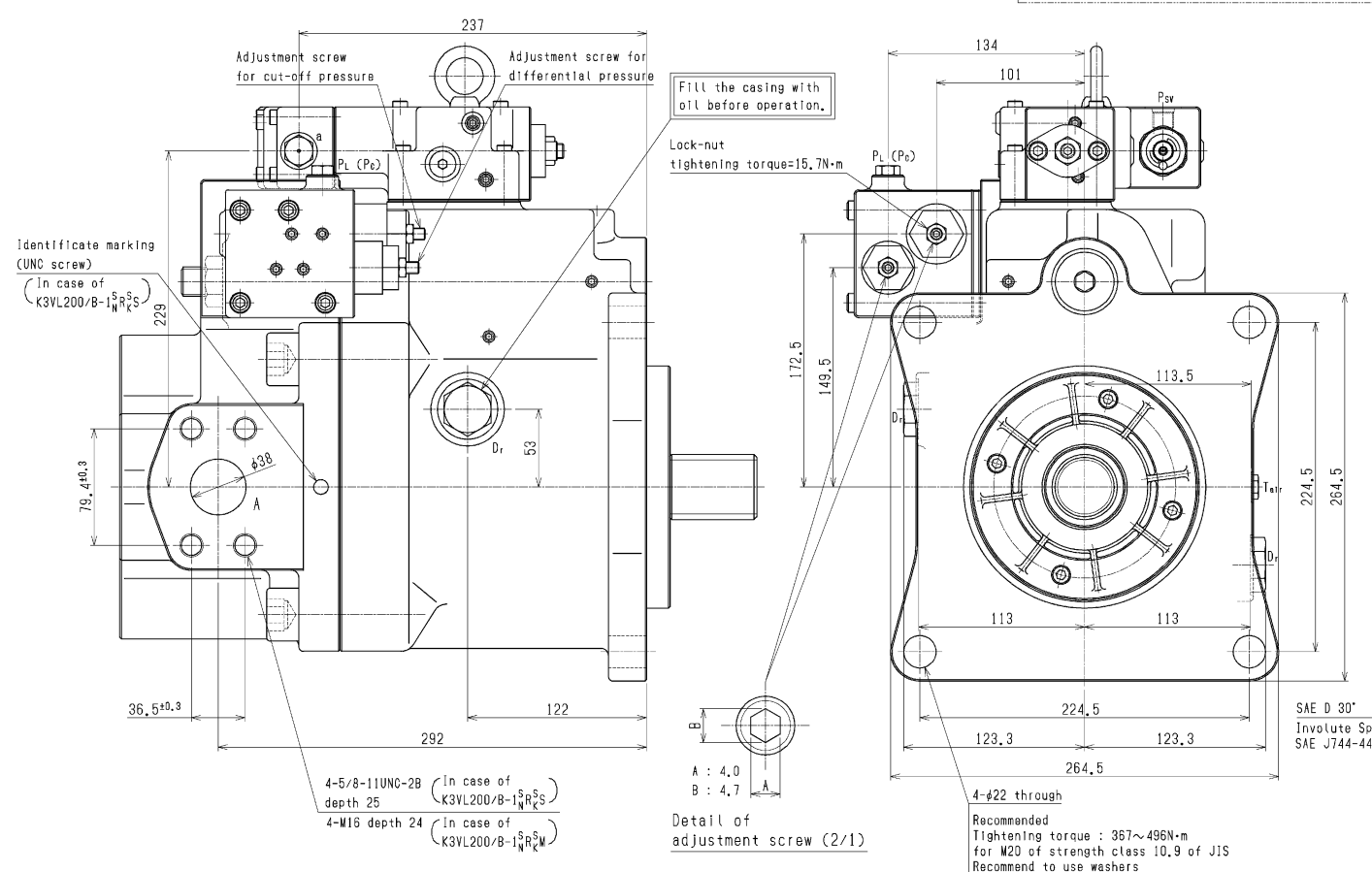


Section X-X

Pump model name	K3VL200/B
Adjustable range of max. displacement	cm ³ 100~200
L	mm 8.9~25.3

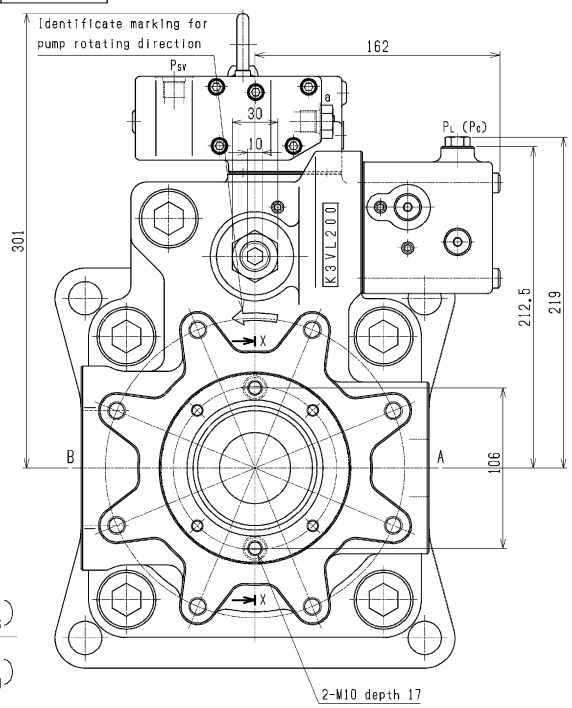
Max. flow adjusting screw
Approx. displacement change per revolution of screw: 15.3cm³

Lock-nut tightening torque=235N·m



SAE E: 4 hole
SAE J744-165-4

SAE D 30"
Involute Spine Shaft
SAE J744-44-4 13T 8/16DP



4-5/8-11UNC-2B depth 25
(In case of K3VL200/B-1^{SS}_NR^{SS}_{KM})
4-M16 depth 24
(In case of K3VL200/B-1^{SS}_NR^{SS}_{KM})
SAE A: 2 hole
SAE J744-82-2
2-M10 depth 17

MATERIAL	APPROVED	PRODUCT CODE	JOB NO.	FILE
MASS 108 kg	CHECKED 1			
SCALE (1/1) 1/2.5	CHECKED 2			
3 RD ANGLE PROJECTION	CHECKED 3			
DATE Jun, 28, 2006	DRAWN N. Yamamoto	PART NO.	ENL. NO.	SPARE TOTAL
			02430-5193	