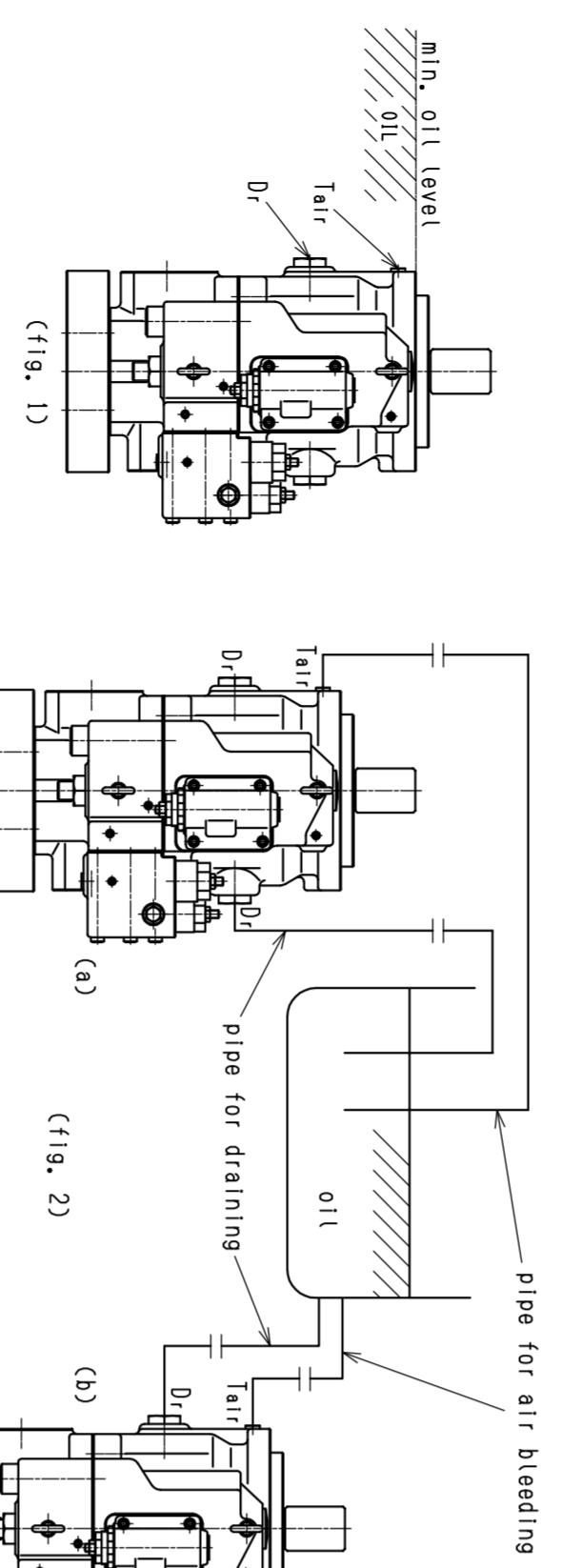


Port name	Port size	On delivery	Tightening torque (lb/ft)	Nm
A	Delivery port	SAE J518C High pressure (code 62) 1 1/4"	Covered with tape	157 (115.8)
B	Suction port	SAE J518C Std. pressure (code 61) 2 1/2"	Covered with tape	98 (72.3)
D _r	Drain port	SAE J1926/1 Straight thread O-Ring boss 3/4" 0. D Tube 1/16-120UNF-28	Attached with steel plug	187 (123.2)
P _L	Load sensing port (Type LD/L)	SAE J1926/1 Straight thread O-Ring boss 1/4" 0. D Tube 7/16-20UNF-28	Attached with steel plug	12 (8.8)
P _e	Pressure control port (Type PD)	SAE J1926/1 Straight thread O-Ring boss 1/4" 0. D Tube 7/16-20UNF-28	Attached with steel plug	12 (8.8)

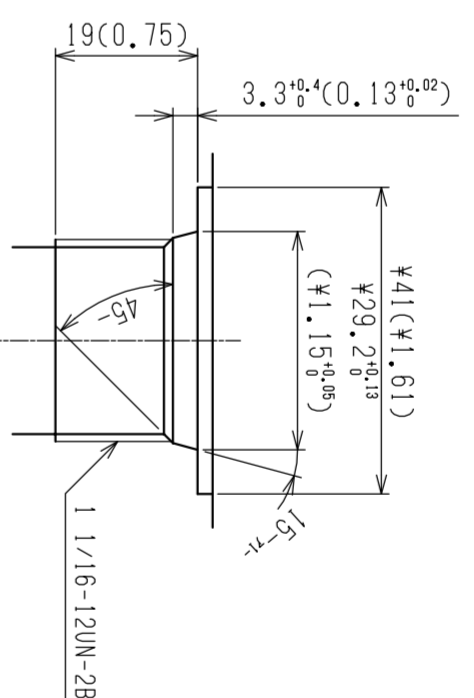
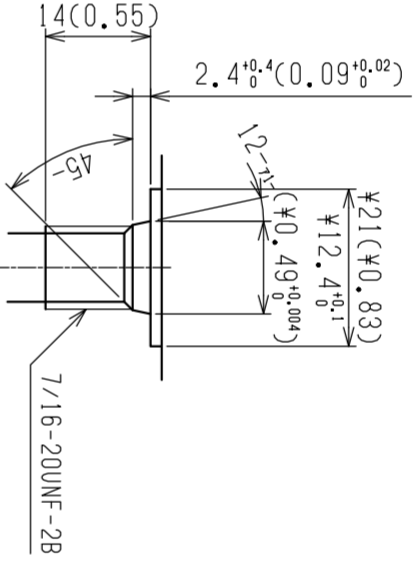
Notes on mounting and operation

- 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 aeration).
- 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 : 10-100cSt 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)
- Installation within a tank
 - Open the drain port and the air bleeder port.
 - Installation outside a tank (Fig. 2)
 - 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.

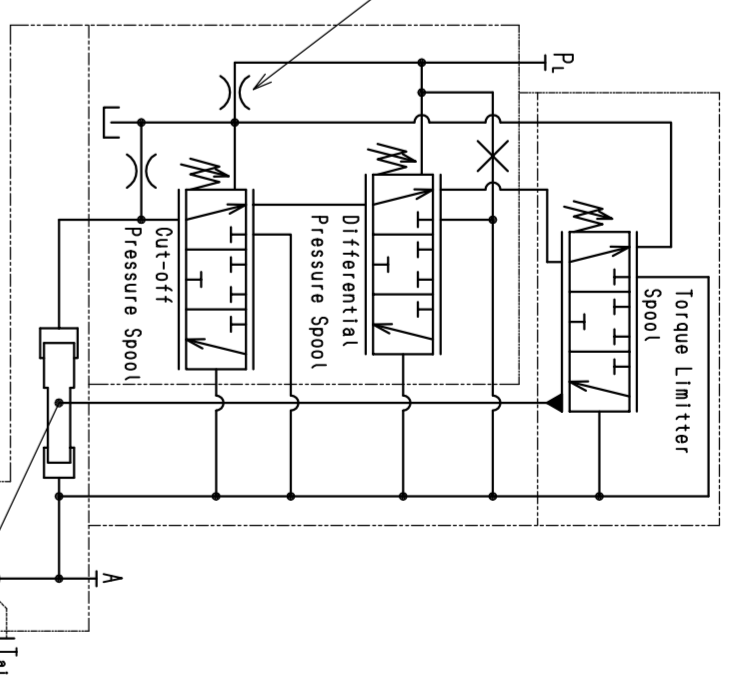


Operating Specifications

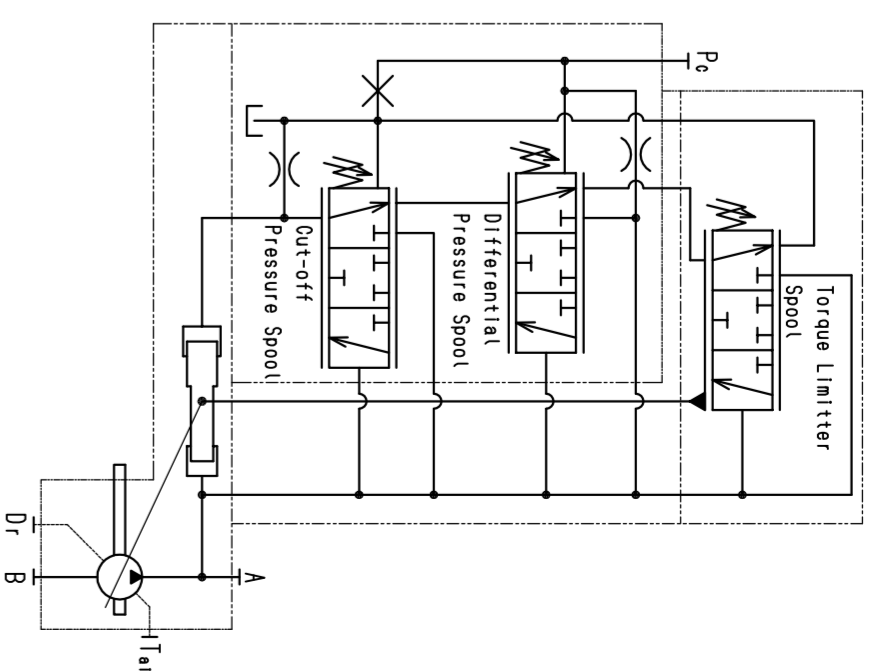
Displacement	cm ³ (in ³)	112 (6.83)
Max. self priming speed	min ⁻¹	2200 (clockwise viewed from shaft end)
Rated pressure	bar (psi)	320 (4600)
Peak pressure	bar (psi)	350 (5000)
Pump model name	K3WL112/B-1DR SS LD 1/1-4* (* : Identify code for hoseoper setting)	



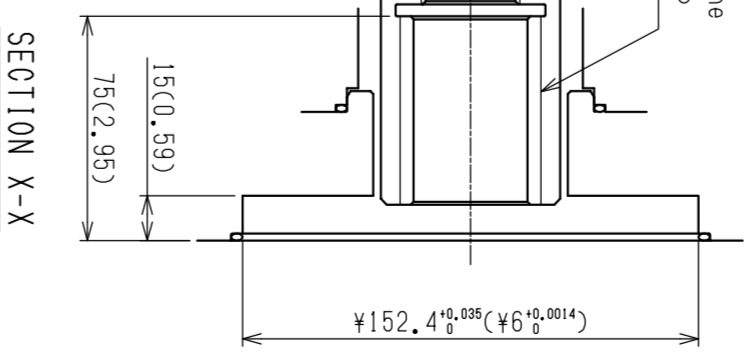
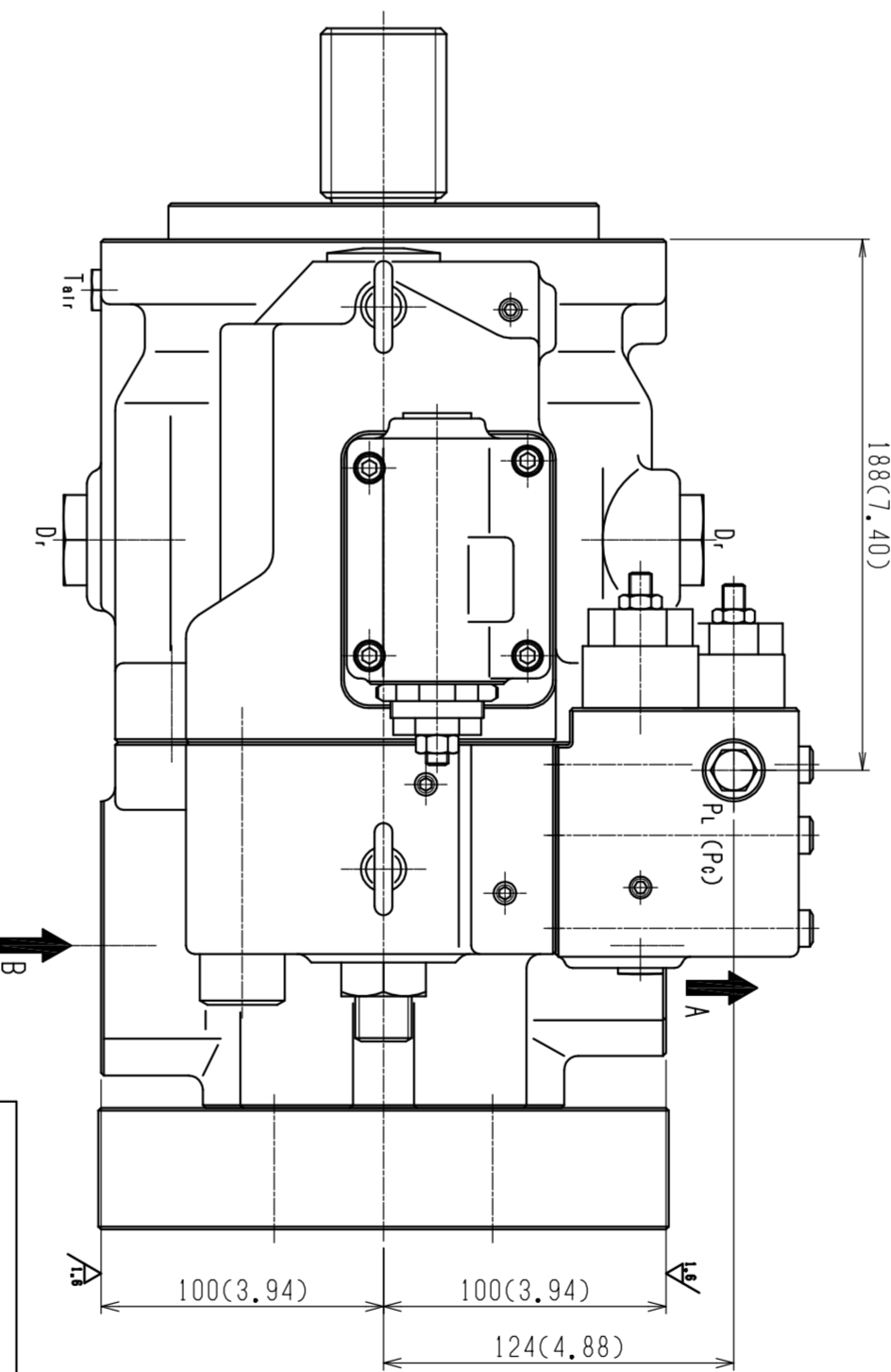
For Type L/1
This orifice is plugged.



Hydraulic circuit (Type LD/L, L/1)

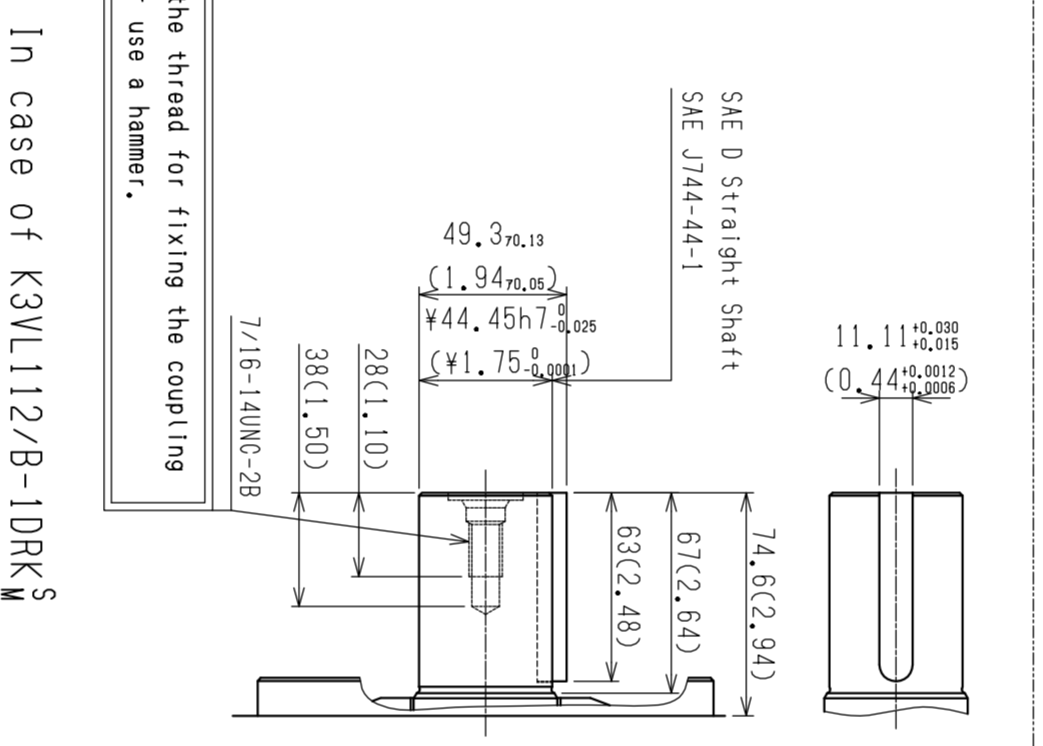


Hydraulic circuit (Type PD/1)

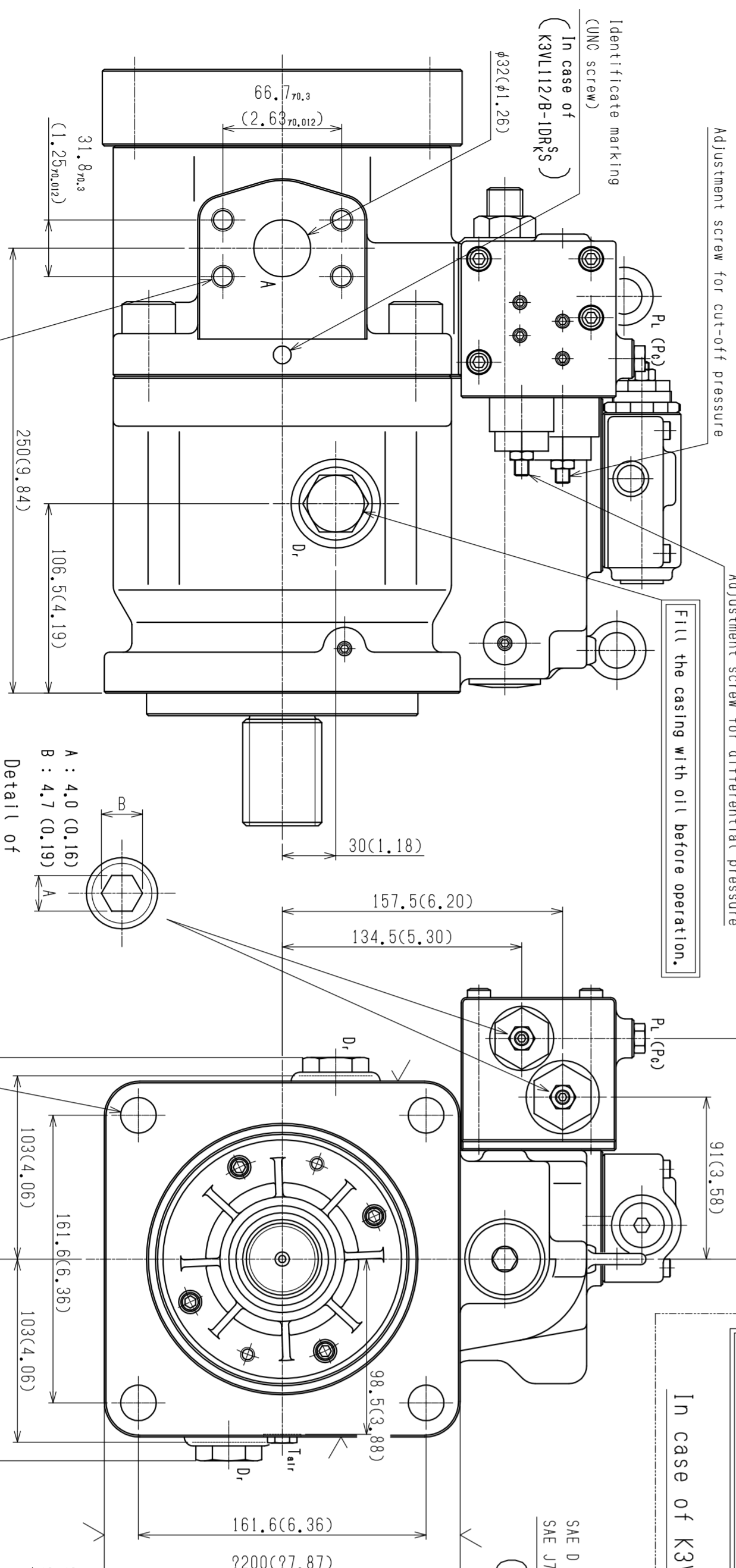


Pump model name	Adjustable range of max. displacement	mm
K3WL112/B	56-112	3.8-16

Max. flow adjusting screw
Approx. displacement change per revolution of screw : 11.5cm³

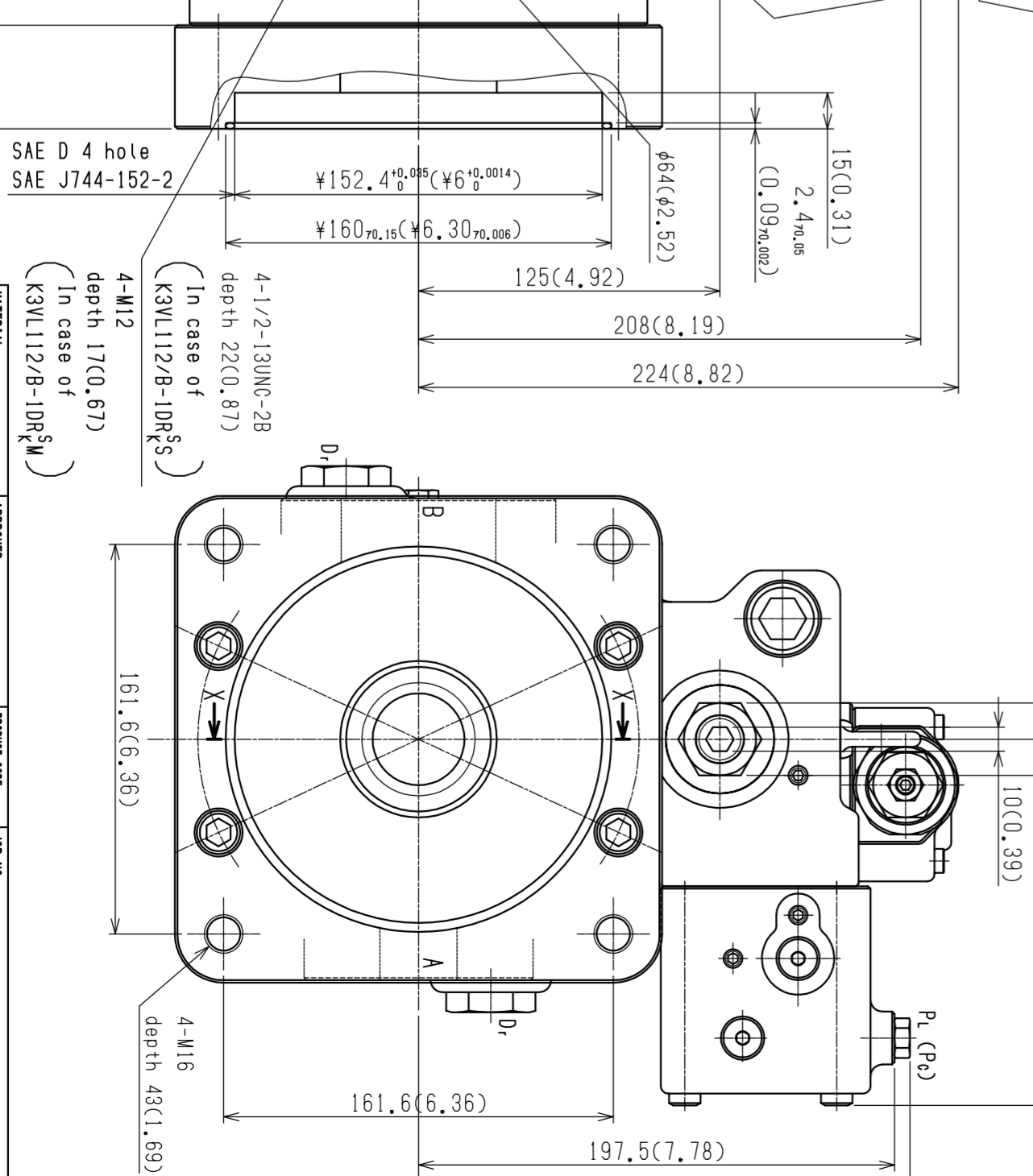
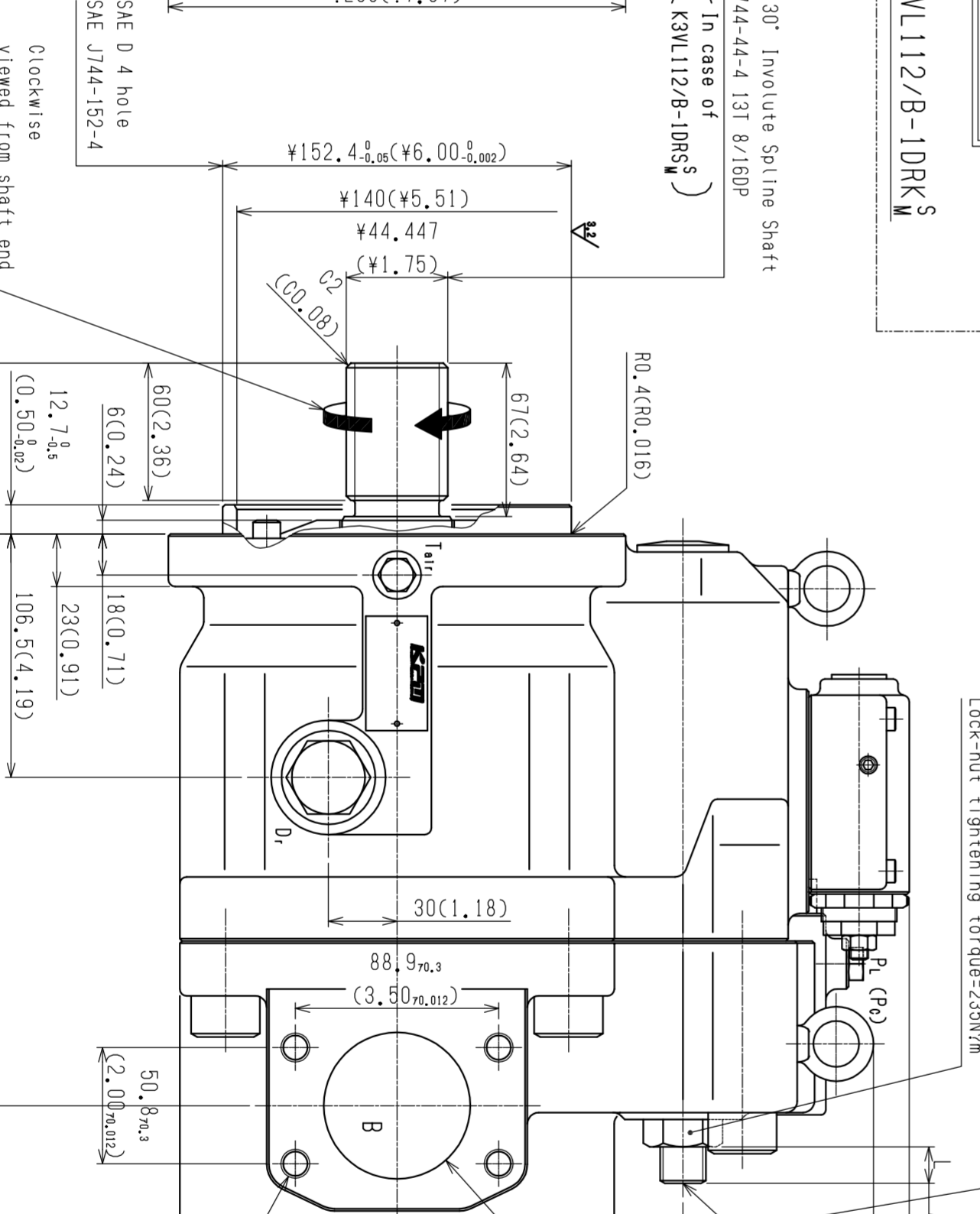


In case of K3WL112/B-1DRK S
Use the thread for fixing the coupling.
Never use a hammer.



Detail of Adjustment screw (2/1)

Recommended Tightening torque : 216-235Nm
for M16 of strength class 10.9 of JIS
Recommend to use washers



DATE	REVISION	DESCRIPTION
Mar. 10, 2005	1	INITIAL PRODUCTION

DESIGNER	CHECKER	DATE