

## 2. CIRCUIT CONFIGURATION

- 1) As for breaker oil pressure line, use extra spool of main control valve.
- 2) Set proper breaker pressure on load relief valve.
- 3) The pressure of the ROBEX180LC-7A system is 330kgf/cm<sup>2</sup>(4700psi).



### 4) Adjusting oil quantity

- (1) Use the breaker mode from work mode. Default oil flow quantity is 136lpm at 2100rpm. Use accel dial switch to control the oil flow quantity.
- (2) If the quantity of hydraulic oil is not controlled properly, it causes short life cycle of the breaker and the machine by increased breaking force and count.

Oil quantity according to engine rpm

Engine rpm	Oil flow ℓ/min	Oil flow U.S.gpm
1900	129	34.0
1800	122	32.3
1700	116	30.6
1600	108	28.5

⚠ Relief pressure : 200kgf/cm<sup>2</sup>

- 5) The accumulator should be used to the breaker charging and return line.  
If the accumulator is not used, it will be damage as the input wave is delivered.  
⚠ **Keep the pressure pulsation of pump below 60kgf/cm<sup>2</sup>(853psi) by installing the accumulator.**
- 6) Do not connect the breaker return line to the main control, but connect to the return line front of the cooler.
- 7) Do not connect the breaker return line to drain lines, such as of swing motor, travel motor or pump, otherwise they should be damaged.
- 8) One of spool of the main control valve should be connected to the tank.
- 9) Select the size of pipe laying considering the back pressure.
- 10) Shimless tube should be used for the piping. The hose and seal should be used Hyundai genuine parts.
- 11) Weld the bracket for pipe clamp to prevent damage caused by vibration.