

## 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.  
※ The initial setting pressure of load relief valve for breaker is 210 bar.
- 3) The pressure of the ROBEX290LC-9 system is 350 kgf/cm<sup>2</sup> (4980 psi).

### 4) Adjusting oil quantity

- (1) Use the breaker mode from work tool of cluster.  
Use select switch to control the oil flow quantity.
  - Setting oil quantity (214 lpm)

#### Flow set

- Max flow : Set the maximum flow for the attachment.
  - Flow level : Reduce the operating flow from maximum flow.
    - Breaker : Max 7 steps, reduced 10 lpm each step.
- (2) If the quantity of hydraulic oil is not controlled properly, it causes short lifecycle of the breaker and the machine by increased breaking force and count.
  - 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 60 kgf/cm<sup>2</sup> (853 psi) 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.

### Oil quantity setting

