

Esperblock Examples of combinations

Hydraulic Valves

Bleeder circuit

When a large cylinder is used, a shock occurs when the circuit is switched by the change valve. To prevent this, the circuit is depressurized before switching.

Falling-under-self-weight prevention circuit

When a heavy load is attached to the cylinder piston for pressing, etc., sometimes the piston falls faster than the speed generated by the pump's discharge volume (falling under self weight). The circuit adjusts the counter balance valve to a pressure appropriate for the heavy load to ensure smooth operation.

Pressure control circuit

The pressure can be adjusted precisely and remotely because the relief valve is fed back. An oil cooler is required in this circuit.

Pressure-retaining circuit (overrun protecting circuit)

The cylinder overrun is prevented by reducing the differential pressure between the pressure switch and the relief valve.