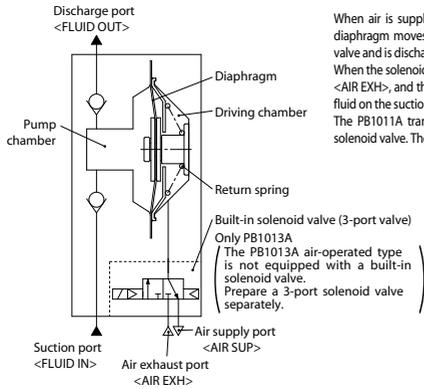


Working Principle: Built-in Solenoid Valve/Air Operated

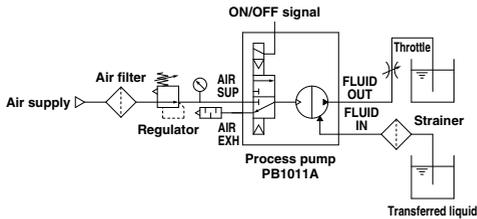


When air is supplied with the built-in solenoid valve turned ON (energized), air enters the driving chamber and the diaphragm moves to the left. Due to this movement, the fluid in the pump chamber passes through the upper check valve and is discharged to the discharge port <FLUID OUT>.

When the solenoid valve is turned OFF (de-energized), the air inside the driving chamber is evacuated to air exhaust port <AIR EXH>, and the diaphragm is moved to the right by the return force of the return spring. Due to this movement, the fluid on the suction port <FLUID IN> passes through the check valve and is sucked into the pump chamber.

The PB1011A transfers the fluid continuously by suction and discharge in turn by repeating ON/OFF of the built-in solenoid valve. The PB1013A air-operated type is operated by the ON/OFF operation of an external solenoid valve.

Circuit example/Built-in solenoid valve



Circuit example/Air operated

