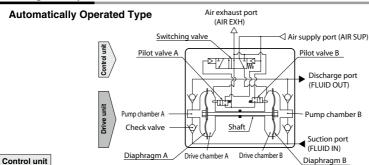
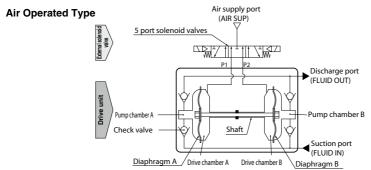
Working Principle



- 1. When air is supplied, it passes through the switching valve and enters drive chamber B.
- 2. Diaphragm B moves to the right, and at the same time diaphragm A also moves to the right pushing pilot valve A.
- 3. When pilot valve A is pushed, air acts upon the switching valve, drive chamber A switches to a supply state, and the air which was in drive chamber B is exhausted to the outside.
- 4. When air enters drive chamber A, diaphragm B moves to the left pushing pilot valve B.
- **5.**When pilot valve B is pushed, the air which was acting upon the switching valve is exhausted, and drive chamber B once again switches to a supply state. A continuous reciprocal motion is generated by this repetition.

Drive unit

- 1. When air enters drive chamber B, the fluid in pump chamber B is forced out, and at the same time fluid is sucked into pump cham
- 2. When the diaphragm moves in the opposite direction, the fluid in pump chamber A is forced out, and fluid is sucked into pump chamber B.
- 3. Continuous suction and discharge is performed by the reciprocal motion of the diaphragm.



- 1. When air is supplied to P1 port, it enters drive chamber A.
- 2. Diaphragm A moves to the left, and at the same time diaphragm B also moves to the left.
- 3. The fluid in pump chamber A is forced out to the discharge port, and the fluid is sucked into pump chamber B from the suction
- 4. If air is supplied to the P2 port, the opposite will occur. Continuous suction and discharge of fluid is performed by repeating with the control of an external solenoid valve (5 port valve).

port. this process

ber A.