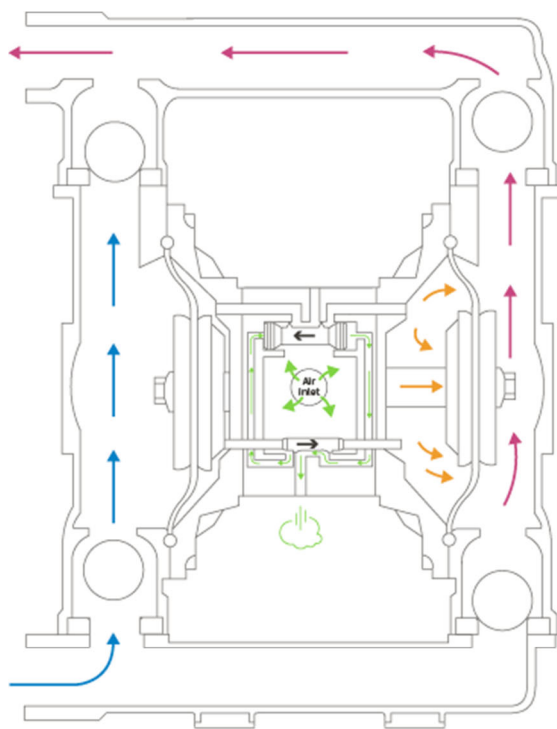


WHAT IS AIR OPERATED DIAPHRAGM PUMP? (HOW TO WORK?)

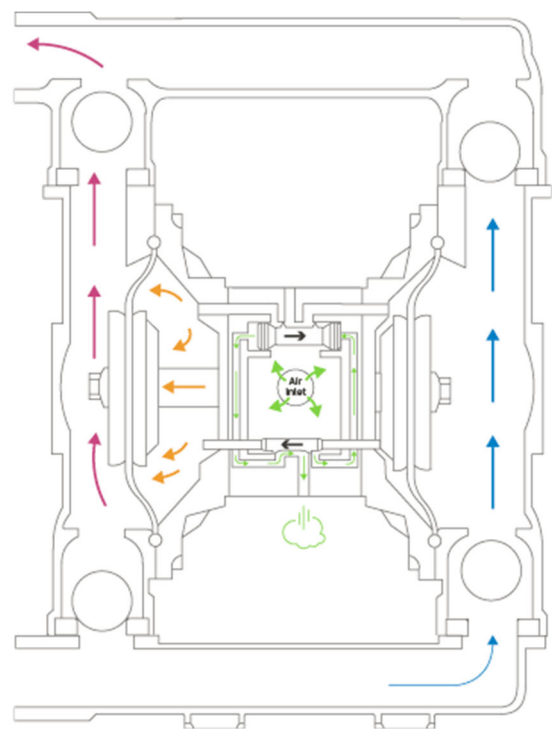
Air operated double diaphragm pumps is a type of positive displacement pump but what sets it apart, is that it uses compressed air to operate.

When you connect compressed air to an AODD pump, it goes into an air motor which directs the air to push a diaphragm, 'pushing the liquid out'. The diaphragm which gets pushed is connected to a shaft which will pull the opposite diaphragm creating a cavity on the other side, 'drawing in the liquid'.

At the bottom and top of the two cavities, there are one-way valves, often a ball valve or a flap valve. So, when a cavity is closed it pushes the liquid up and out while on the other side, it opens a cavity sucking in the liquid. This will then alternate back closing the cavity on the other side and opening the other.



*With air turned on, piston
pushes to one side to start
Drawing in the liquid
Pushing the liquid out*



*Then alternating back
Drawing in the liquid
Pushing the liquid out*