

HOW THE ADJ1000 WORKS

THE ADJ1000 IS MADE UP OF A PUMP HEAD ASSEMBLY AND A SKIMMING ASSEMBLY. THE PUMP HEAD INCLUDES AN AIR LOGIC VALVE CONTROLLER, DIAPHRAGM, AND PUMPING CHAMBER. THE SKIMMER ASSEMBLY CONSISTS OF A SLOTTED WELL SCREEN, FLOAT BODY, AND FILTER. THE AIR LOGIC VALVE DELIVERS BURSTS OF AIR DOWNWARD AGAINST THE DIAPHRAGM. A SPRING RETURNS THE DIAPHRAGM UPWARD. THE UPWARD MOVEMENT OF THE DIAPHRAGM CREATES A VACUUM AT THE INLET OF THE PUMP HEAD. APPROX. 23" hg VAC. THIS VACUUM CAUSES THE PRODUCT BEING COLLECTED BELOW THE PUMP HEAD TO MOVE INTO THE PUMPING CHAMBER. DOWNWARD MOVEMENT OF THE DIAPHRAGM CAUSES THE PRODUCT IN THE PUMPING CHAMBER TO MOVE UPWARDS OUT OF THE PUMP HEAD. THE AIR LOGIC VALVE CAN BE ADJUSTED TO VARY THE SPEED AT WHICH THE PUMP OPERATES.