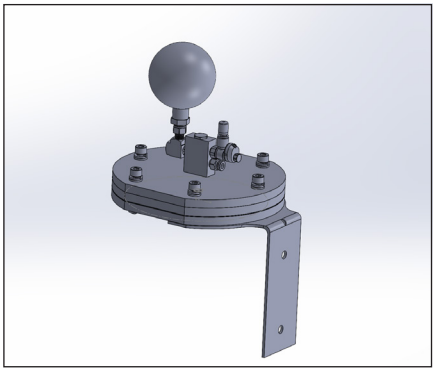
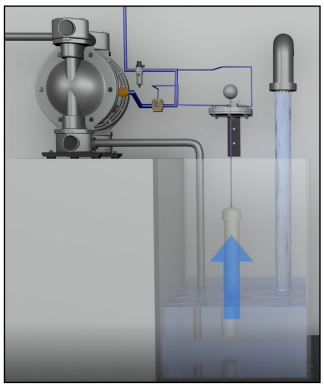
YALC Level Controller
Operations & Installation

Read carefully before handling.

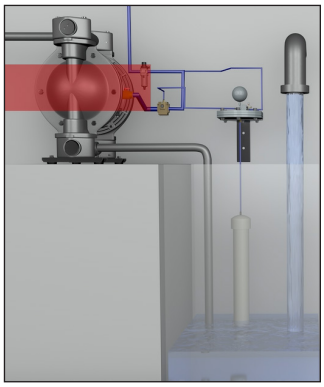
OPERATING PRINCIPLE

1. A sensing pipe is affixed to the side of the fluid container or reservoir, as needed.
2. As the fluid rises, the pressure in the pipe increases.
3. The sensing tubing is connected from the sensing pipe to the control head. As the pressure in the tubing increases, so does the pressure on one side of the diaphragm in the control head.
4. The pressurized diaphragm actuates a normally closed pilot valve.
5. The activated pilot valve allows air to the power valve, which controls the main supply of air to the Air Operated Double Diaphragm (AODD) pump.
6. When the fluid level goes down, the pressure in the sensing pipe and tubing is reduced ultimately closing the pilot valve and turning off the pump.
7. The pressurized air in the reservoir (pressure globe) keeps the air valve actuated, allowing the pump to continue running longer.
8. The speed at which the air in the reservoir bleeds off is controlled by adjusting the lockable needle valve on the control head (the smaller the # on the control knob, the longer the pump will run).
9. Once the pressure has bled off, the power valve is completely de-activated, closing the valve and shutting off air to the AODD pump.
10. Minimum operating pressure is 30 psi and the absolute maximum is 100 psi.

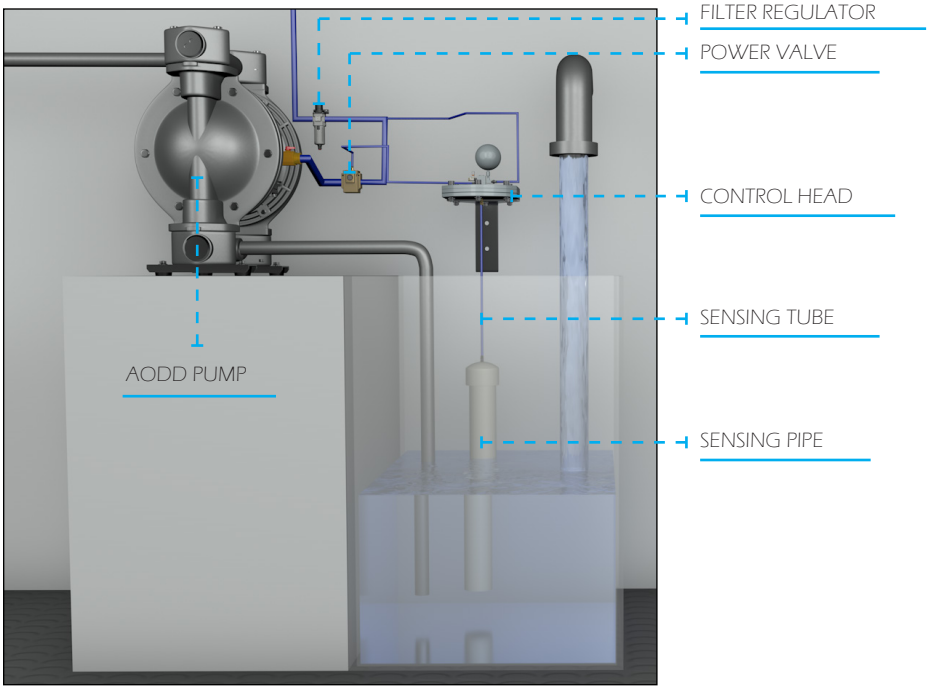




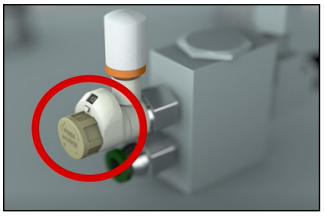
Fluid rises, pressure increases



AODD pump shuting off



YALC Installation

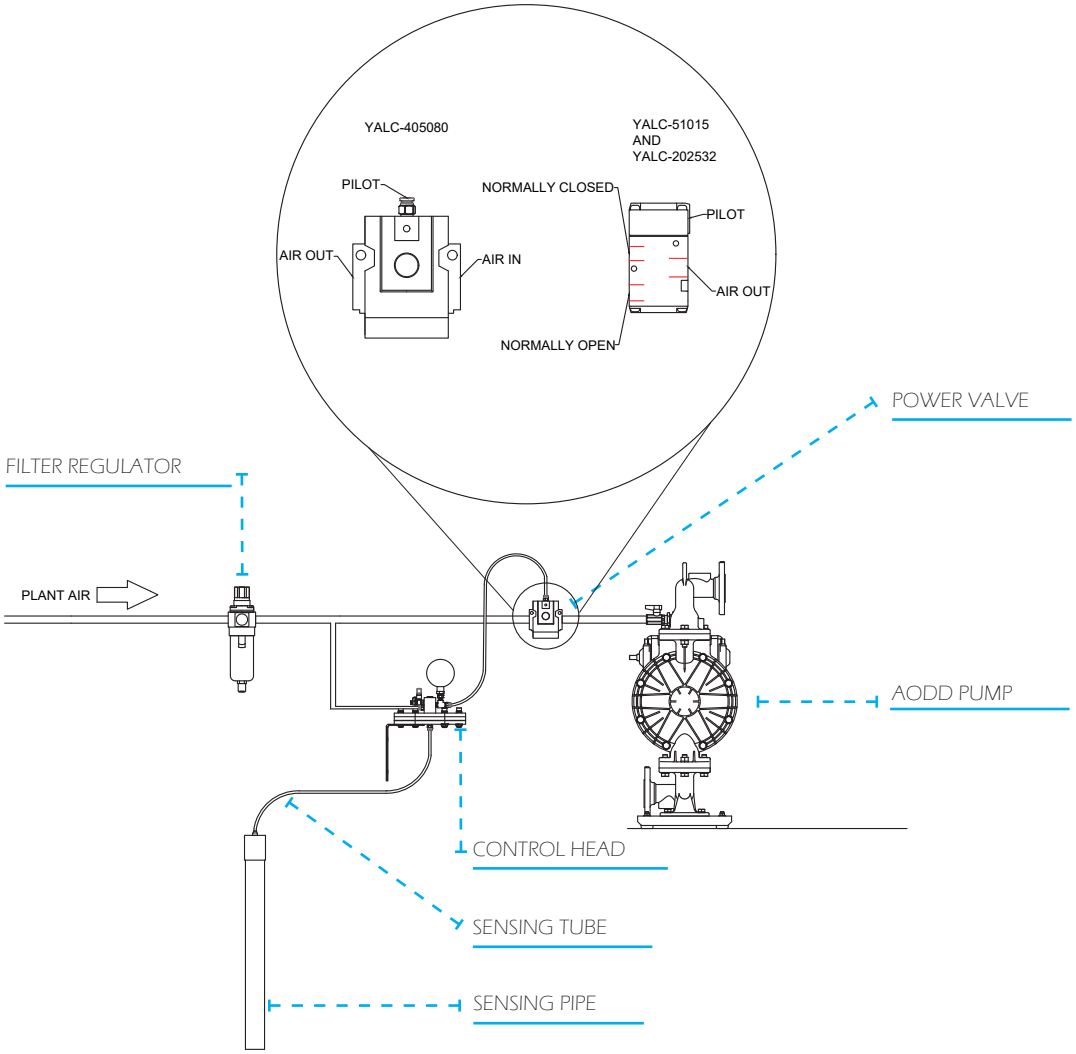


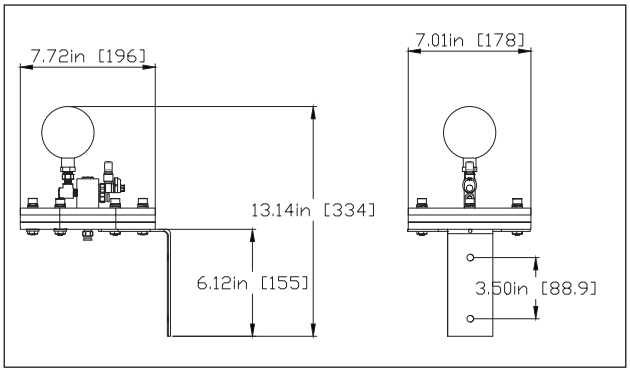
Control Knob

YALC Level Controller
Operations & Installation

Read carefully before handling.

PRODUCT OPERATION / INSTALL





WEIGHT: 20 Lb.s
DIMENSIONS: 7.01"L x 7.72"W x 13.14"H

POWER VALVE ASSEMBLIES

MODEL #:	PUMP SERIES:	INCLUDES:
YALC-HEAD	ALL	CONTROL HEAD ONLY
YALC-51015	DP-10, NDP-5/15	CONTROL HEAD, SENSOR, SENSING TUBE AND POWER VALVE.
YALC-202532	NDP-20/25/32	
YALC-405080	NDP-40/50/80	