



DESCRIPTION

MODEL 3300 ALTITUDE PILOT

- Three port, two position, hydraulically operated
- Extra-large diaphragm, responsive to small level changes
- Multiple spring ranges for easy, accurate adjustment
- All parts replaceable while mounted on valve
- Rubber to metal seat
- Bronze body, stainless steel internals

The 3300 senses tank head (pressure) under its diaphragm and balances it against an adjustable spring load (high level shut-off setting). When tank head is below the setting, the internal mechanism shifts to route the pressure on the main valve diaphragm chamber to atmosphere (bonnet port > vent port), allowing the main valve to open and fill the tank. When the tank head reaches the high level setting, the mechanism shifts to route valve inlet pressure (supply port) to the main valve diaphragm chamber (bonnet port), closing the valve tightly.

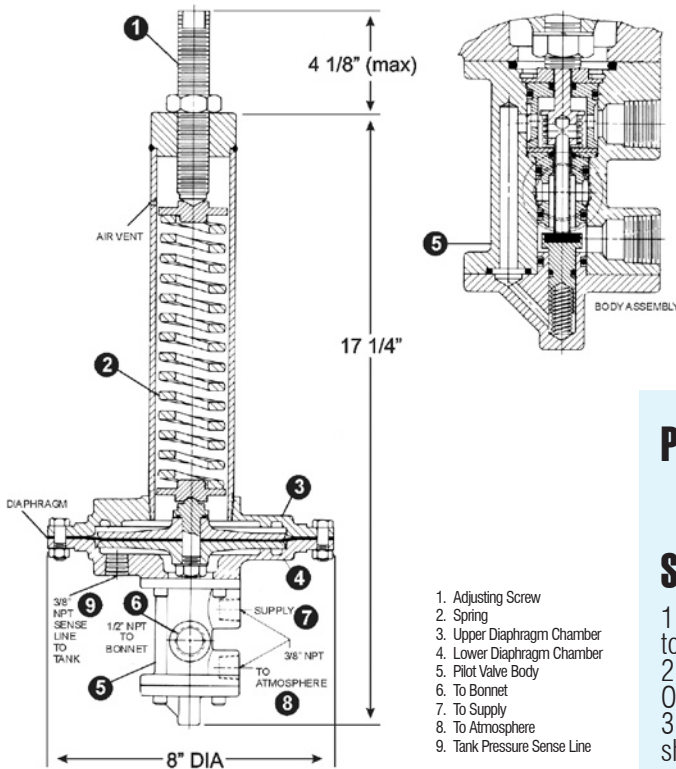
On 8" and smaller altitude valves, the pilot operates the main valve as described above. On 10" and larger valves, the pilot operates the main valve through a 3-way auxiliary control, Model 3600.

Typical use: Series 3331 and 3333 altitude valves

SPRING RANGES

PART CHANGE NUMBER	COLOR	RANGE		TURN
		Feet	Meters	
651404	GREEN/WHITE	5 - 30	1.5 - 9.1	1 ft / 0.3 m
651405	GREEN	20 - 50	6.1 - 15.2	2 ft / 0.6 m
651406	BLUE	40 - 80	12.2 - 24.4	2.5 ft / 0.8 m

*ADJUSTMENT - Clockwise turn of adjusting screw raises the tank level, counter clockwise lowers the level.



PORT SIZES:

- Sense line port - 3/8" NPT
- Bonnet port - 1/2" NPT
- Supply port - 3/8" NPT
- Vent/Atmosphere port - 3/8" NPT

SENSE LINE CONNECTION

1. It is essential that the sense line be connected as close to the tank as possible to accurately sense the tank head.
2. Minimum recommended size for the sense line is 1/2" OD tubing or 3/8" pipe.
3. In order to prevent air accumulation, the sense line should slope slightly upward from the valve to the tank.

MATERIALS

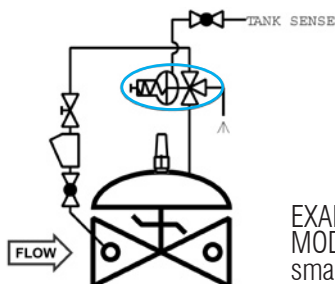
- Body: Bronze B61
- Internal Mechanism: 316 Stainless Steel
- Elastomers (diaphragm, seat disc, o-rings): Buna-N

MAINTENANCE

Rubber components are typically the only parts that may require periodic replacement. These are available in kits consisting of the diaphragm, the seat disc and all O-rings.

Buna-N Kit - Part # 930004

SCHEMATIC SYMBOL



The Model 3300 is shown on OCV Valve Schematics as:



EXAMPLE SHOWING MODEL 3331 8" and smaller Altitude Valves