

**LEAD FREE\***

## Model 27

### Altitude Pilot

**Size: 1/8" NPT Actuation Ports (1/4" NPT Sense Line Port)**

The Model 27 Altitude Pilot is a hydraulically operated, diaphragm actuated, spring loaded 3-port pilot designed to open or close based upon static tank head pressure versus an adjustable spring setting. It directly monitors tank head pressure by a contractor field installed Sensing Line. The large diaphragm area causes the Model 27 to be sensitive to slight changes in tank head pressure.

The Model 27 Altitude Pilot works in conjunction with a 3-Way Accelerator Pilot (Model 22 or Model 22-1) to open and close the Main Valve.

As water level decreases, the sensed tank head pressure falls below the control setpoint of the Model 27, causing it to pressurize the cover of the 3-Way Accelerator, allowing the Main Valve to open for filling operations. The valve will either open fully or regulate to fill the tank based upon the pilot control system installed on the Main Valve.

As water level increases, the sensed tank head pressure increases above the control setpoint of the Model 27, causing it to de-pressurize the cover of the 3-Way Accelerator, closing the Main Valve.

Turning the Adjusting Screw clockwise increases the control setting, increasing tank level. Turning the Adjustment Screw counterclockwise lowers the control setting, decreasing tank level.

The Model 27 may be equipped with an optional Altitude Gauge or Delayed Opening Pilot in the sensing line to allow for increased tank turn-over. Consult your factory representative for details.



Model 27

### Specifications

<b>Body:</b>	Brass Alloy C36000 (std) Stainless Steel (opt)
<b>Adjustment Spring:</b>	Steel
<b>Adjustment Range:</b>	5-20 feet (2 - 6 meters) 10-75 feet (3 - 23 meters) 50-225 feet (15- 69 meters)
<b>Elastomers:</b>	Buna-N (std) EPDM (opt)

**\*The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

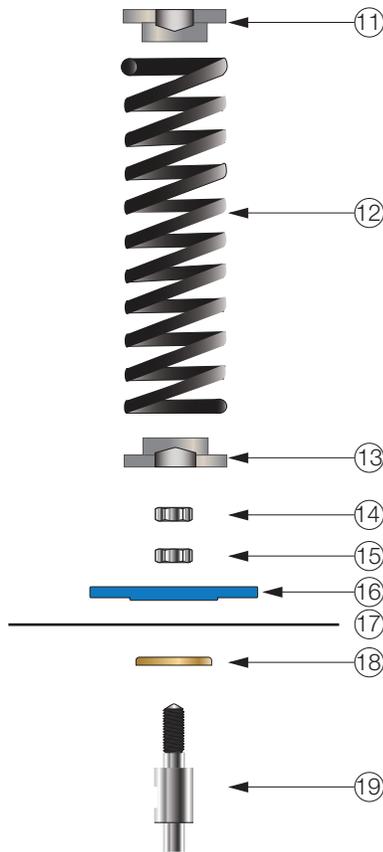
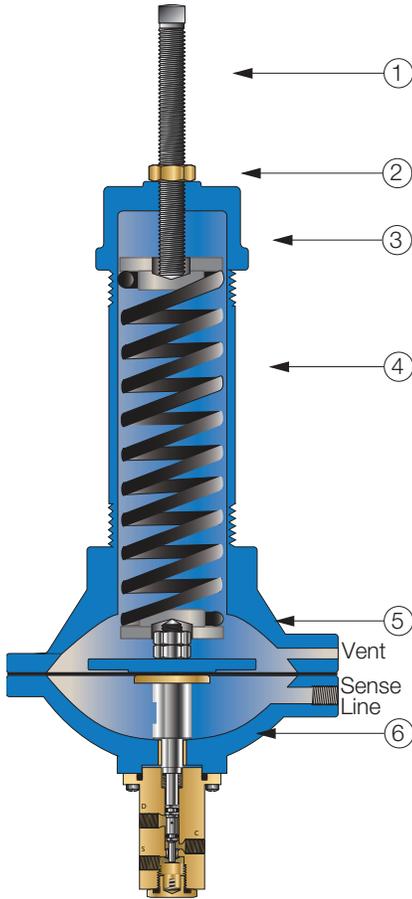
#### NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

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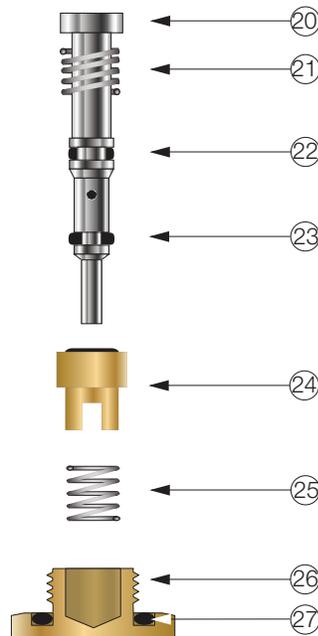
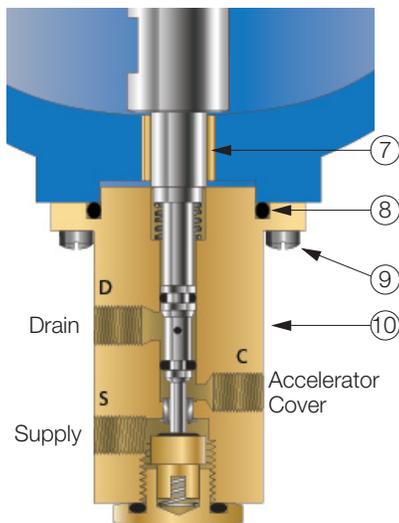


### Spring Color Code

Yellow	5-20 Foot Range
Orange	10-75 Foot Range
Black	50-225 Foot Range

Item	Description
1	Adjusting Screw
2	Jam Nut
3	Cap
4	Spring Housing
5	Upper Chamber
6	Lower Chamber
7	Bearing
8	O-Ring*
9	Machine Screw
10	F23 Body
11	Upper Spring Guide
12	Spring (see below)
13	Lower Spring Guide
14	Upper Jam Nut
15	Lower Jam Nut
16	Upper Diaphragm Washer
17	Diaphragm*
18	Lower Diaphragm Washer
19	Shaft
20	Stem
21	Spring
22	O-Ring*
23	O-Ring*
24	Disc and Retainer*
25	Spring
26	Lower Cap
27	O-Ring*

\*Included in Repair Kit



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