SPECIAL APPLICATION GAUGES

Low Lead Type NL300L and NL310WJ Air Volume Controls

DESCRIPTION

U.S. Gauge Low Lead Air Volume Controls adhere to the "Reduction of Lead in Drinking Water Act" enacted by the U.S. Congress January 2011.

U.S. Gauge low Lead Air Volume Controls are designed for potable domestic water supply systems which deliver a quantity of air to the pressure tank with each cycle of pump operation. Insufficient air in the pressure tank causes frequent operation of the pump.

Too much air in the pressure tank will permit large bubbles to be carried into the piping system. This causes a disagreeable noise and sputtering at the faucets.

It is the function of U.S. Gauge air volume controls to maintain the correct relationship between the volume of air and the quantity of water in the pressure tank.

SPECIFICATIONS NL300L

HOUSING: Die cast zinc, with 1-1/4–11-1/2 ANPT male connection for tank installation, and 1/4-18 ANPT female connection to accept a U.S. Gauge Model P-500 pressure gauge, 1/4-18 ANPT, LM connection

AIR INLET VALVE: Schrader or Dill type valve is mounted in the hose connection

FLOAT: Plastic bulb, mounted on a solid, low lead brass rod

INTERNALS: A flexible, molded neoprene plug of unique design acts as both dividing wall and fulcrum through which float action is transmitted to the air inlet valve

SHALLOW WELL OPERATION - Type NL300L

When the water level is high, the float, secured to a float rod extending through a flexible dividing wall, opens an air inlet valve in the body of the control. The air inlet valve is connected through 48" long polyethylene tubing to a snifter valve on the pump and has no direct connection into the tank. The snifter valve admits air into the pump but prevents the water in the pump from escaping back through it. Air is drawn into the pump through the air inlet valve, connecting tubing and snifter valve and carried out with the water into the tank. This operation continues until the volume of air increases to the proper amount, at which time the float closes the air inlet valve, shutting off the supply of air to the pump. The optimum relationship between the volume of air and water in the tank is thus maintained.

Spec Number Selection Chart	
Model Number	**Spec No.**
Type NL300L	148542ANL
Type NL310WJ	148540ANL
Type NL310WJ spares - valve assembly	085043ANL
Type NL310WJ spares - valve seats	085392ANL

SPECIFICATIONS NL300WJ

HOUSING: Die cast zinc, with 1-1/4–11-1/2 ANPT male connection for tank installation, and 1/4–18 ANPT female connection to accept a U.S. Gauge Model P-500 pressure gauge, 1/4–18 ANPT, LM connection

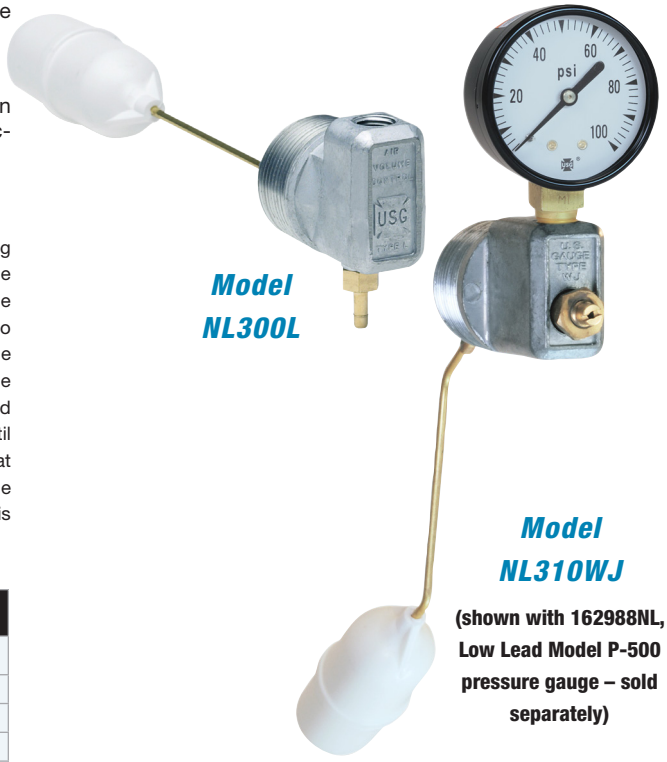
MAIN VALVE: Brass stem with a neoprene seat, float actuated

RELIEF VALVE: Brass, spring loaded pressure actuated
Manually adjustable between 15 and 40 psi. Stock units preset at 25 psi

FLOAT: Plastic bulb, mounted on a solid, low lead brass rod

DEEP WELL OPERATION - Type NL310WJ

When there is an excess of air and the water level is low, the float opens the main valve of the control, permitting air to be vented to a chamber within the control. This chamber contains an adjustable pressure relief valve which exhausts the excess air to the atmosphere, providing the pressure in the tank is higher than the relief valve setting. As the float rises with the increase in water level the main valve closes, trapping the remaining volume of air in the tank. The optimum relationship between the volume of air and water in the tank is thus maintained.



Model NL300L

Model NL310WJ

(shown with 162988NL, Low Lead Model P-500 pressure gauge – sold separately)

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Specifications are subject to change without notice. Visit our Web site for the most up-to-date information.

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