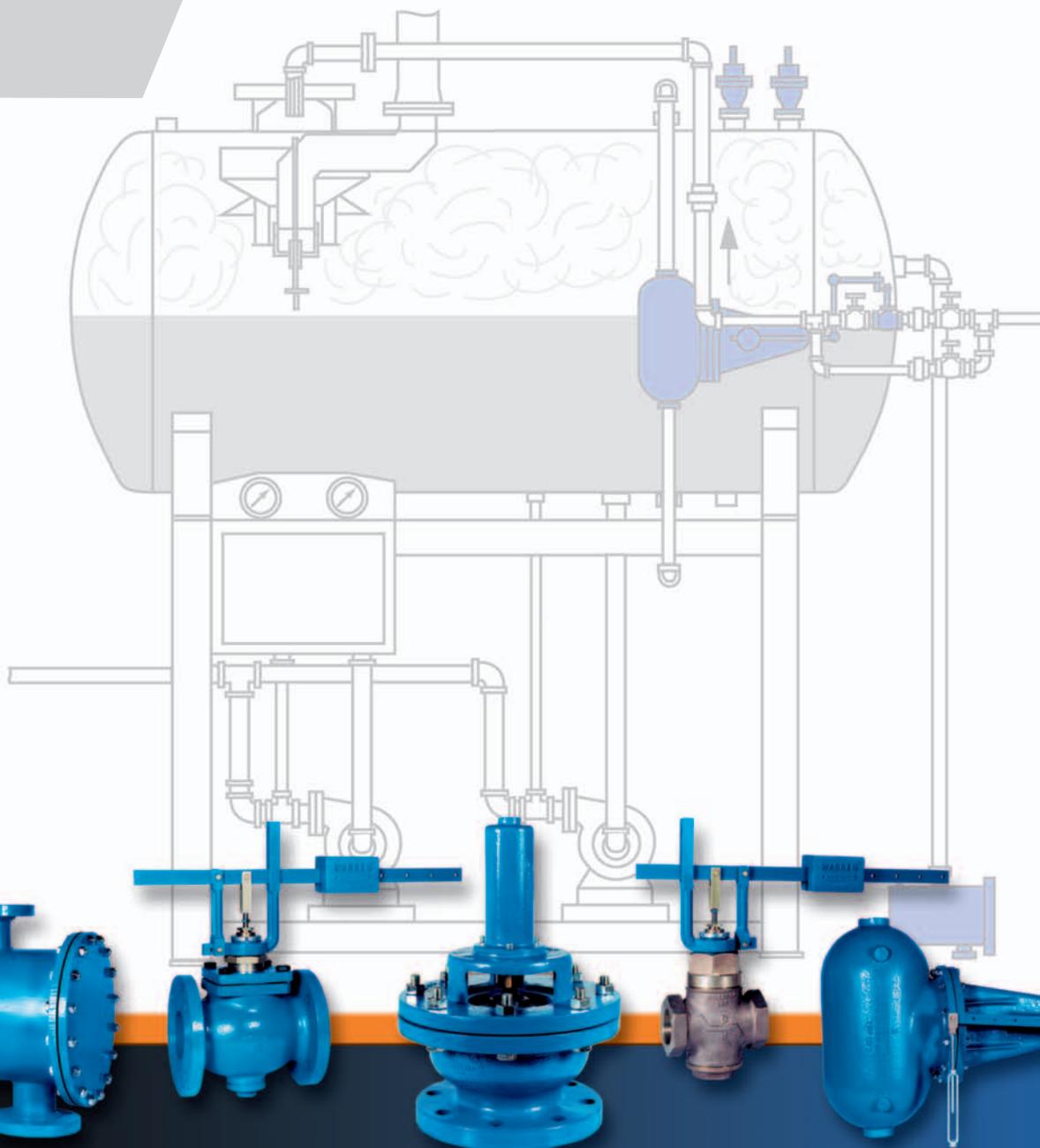




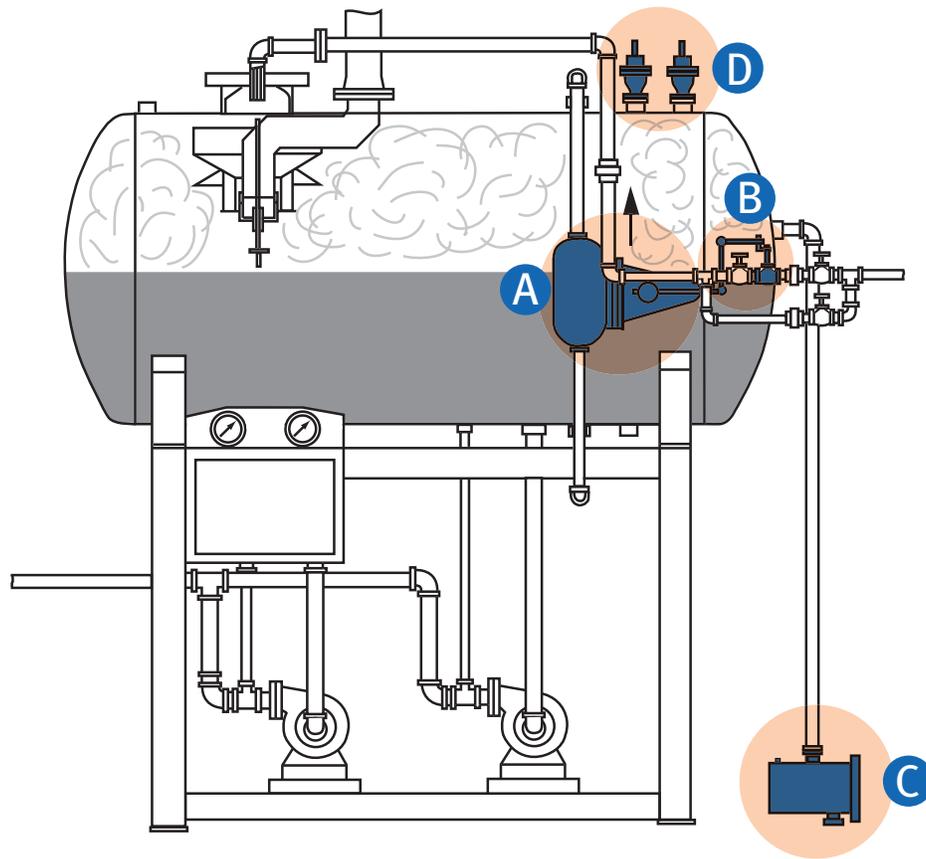
WARREN CONTROLS

Dependable, Rugged, Precision Control Valves and Accessories



*Level Controls and
Accessories*

Warren Controls Level Controls at Work...



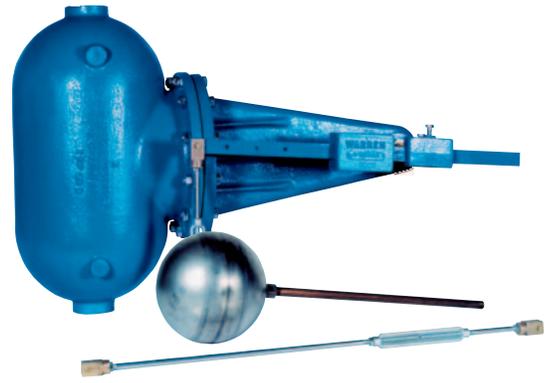
The following is a typical example of a tank filling/deaerator application using properly sized, selected, and maintained Warren Controls Level Controls. Demand for water reduces the liquid level in the tank. The [A] **377 Float Cage** opens the [B] **322L or 326L Lever Valve** to supply intake water to the tank. When the water reaches the desired level the float cage closes the lever valve to accurately maintain the liquid at the desired level. Deaerators, tanks with steam blankets, produce additional liquid as the steam condenses. The [C] **313 Overflow Trap** traps and relieves this condensate through its internal pilot without the steam blanket escaping. Overflow can occur if the water entering the tank exceeds its capacity. The 313 Overflow Trap relieves the overflow through its internal single seated main stage valve. Falling liquid levels and condensing steam can cause a vacuum that can damage the tank. The [D] **200 Vacuum Breaker** opens to admit outside air to relieve the vacuum in the tank. Warren Controls Level Controls are also used on boiler make-up water tanks and many other storage tank applications.



377 Float Cage

Buoyancy of its internal float ball provides force to actuate lever valve to maintain liquid level in a tank. Features cast iron construction, 1-1/2" NPT connections, 316 stainless steel float ball, steel lever and turnbuckle assembly. Lever and turnbuckle assembly are adjustable to ease installation and connection to lever valve. Mounting bosses present can be tapped for optional sight glass assembly.

Photo: 377 w/8" diameter 316 stainless steel float ball with brass float rod, and 3' adjustable turnbuckle assembly shown separately.



326L Lever Valve

Combines balanced single seated Type 26 globe valve and lever actuator. Features bronze or stainless steel body, stainless steel trim, TFE v-ring packing, cast iron lever actuator, steel lever, sizes 1/2" through 2", NPT connections. Cv's to 40. Shut-off pressures to 100 PSI.

Photo: 2" Bronze 326L

322L Lever Valve

Combines double seated Type 22 globe valve and lever actuator, Features cast iron body and lever actuator, bronze or stainless steel trim, TFE v-ring packing, steel lever, sizes 1-1/2" and 2" with NPT connections, 2-1/2" and 3" with 125FLG. Cv's to 100. Shut-off pressures to 100 PSI.

Photo: 3" 322L

Valves are operated by 377 float cage to maintain liquid level in tank. Lever actuators are adjustable 360° around top of valve for ease of installation and connection to float cage. Lever actuators can be reversed from rising lever opens valve to rising lever closes valve.



313 Overflow Trap

Buoyancy of its float ball provides force to actuate internal pilot operated single seat valve assembly to relieve condensate and overflow to drain. Features steel chamber, brass/bronze internal valve, 316 stainless steel float ball, sizes 1" through 2" with NPT connections, and 3" through 6" with 150 FLG. Pressure drops to 15 PSI. Condensate capacities to 500,800 #/HR. Large end cover provides easy access to internal valve assembly. Cover can be tapped for optional sight glass assembly.

Photo: 3" 313. Brass/bronze internal valve assembly with 316 stainless steel float ball and float arm shown separately.



200 Vacuum Breaker

Opens gradually to admit outside air to relieve a vacuum in a tank. Features iron, steel, or stainless steel body; iron, steel, or stainless steel seat; non-asbestos or TFE disc; size 2" iron with NPT or 125FLG connections, 2" steel and stainless steel with 150 or 300 FLG; 4" through 12" iron with 125FLG, 4" through 12" steel and stainless steel with 150 or 300 FLG. Air relief capacities to 14,280 CFM.

Photo: 4" Iron 200. Stainless steel stem and non-asbestos disc assembly, Iron body with seat and brass guide, and stainless steel spring assembly shown separately.



Industrial Control Valves

for Industrial Process Applications



Commercial Control Valves

for Building Automation



As our select line of valves continues to evolve, we remain committed to the highest quality, superior service, and timely technical support. Each valve is carefully manufactured and pre-set for accuracy and your convenience.

Remember, for dependable, rugged quality Control Valves and Accessories, **Think Warren Controls.** We deliver exactly what you need, right when you need it.

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