

Potable Water System Components

ITT Aerospace Controls

Centrifugal Pumps for Potable Water Systems



ITT Aerospace Controls offers a 3-phase, 115/200 VAC, 400 HZ induction motor driven centrifugal pump assembly. The pump is intended for wet and/or dry operation, for use in a potable water delivery system on aircraft. The pump is designed for continuous duty.

The Potable Water Pump consists of a 3-phase, water-cooled induction motor and a centrifugal impeller. All metallic parts of the pump, which are in contact with water are fabricated from stainless steel. The stator assembly of the motor of the pump is mounted into an aluminum outer housing, and the aluminum motor housing is not in contact with the potable water. All rotating elements are mounted on a single shaft which is supported by two carbon journal bearings – the results is a pump capable of running dry for over 1,000 hours.

UV Disinfection

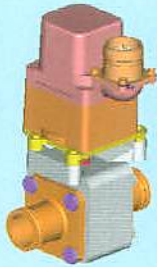
With the increased awareness of health concerns and water quality, UV Disinfection is quickly gaining in popularity in the aircraft market as a safe, effective, and economical approach to disinfection. UV light is the region of light represented in the range of 100-400 nm within the electromagnetic light spectrum. The optimum UV wavelength for disinfection is 254 nm.

When UV (254 nm) light is applied to a microorganism, it penetrates the cell wall of the microorganism, attacking its DNA structure. By creating a bond on the thymine amino acid (called thymine dimmer) the microorganism is unable to reproduce; therefore, rendering it inactive.

Ease of installation, low maintenance costs, and overall effectiveness are three of the primary benefits of UV water treatment. Additionally, the chemistry of the water is not changed with UV Disinfection. UV provides a point of contact disinfection without requiring the addition of chemicals or altering the quality of the water.



Manual & Motor Operated Valves

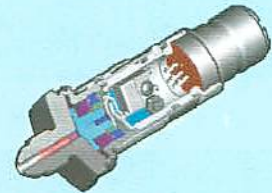


The ITT Aerospace Controls Valve assemblies are two-position, two-way, three-way, or four-way plug or ball Valves operated by a manual lever or permanent magnet DC electric Motor. The Valves are designed to operate with potable water and air. The temperature of the fluid may range from 32°F to 165°F without adverse effects on the Valve's internal components.

The valves will also operate following exposure to temperature ranging from -65°F to 165°F. Applying power to the appropriate pins on the electrical connector causes the Valve to open, allowing full, unobstructed flow of fluid through the Valve, or to close, blocking the flow of fluid on desired ports. The Valves are machined from bar stock to allow for significantly reduced lead-times.

Electromechanical Switches

ITT Aerospace Controls develops, designs, and manufactures various types of Pressure Switches. Our Neo-Dyn® switch product line known for reliability, accuracy and robust design, is globally utilized on aircraft. We offer a wide range of pressure set points, temperature rating up to 400 °F and capability of 100+G vibration.



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