



APCO PUMP PROTECTORS FOR WATER AND SEWAGE



Series 2123
For Water



Series 4123
For Sewage

Pump Protectors

Series 2123 Air Release Valve with Water Level Control Switch

The APCO Pump Protector consists of an Air Release Valve and a Water Level Control Switch, shipped completely assembled as shown. Special trims are available to handle corrosive liquids.

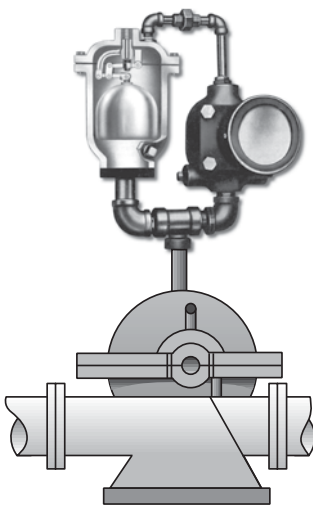
The Water Level Control Switch shuts off the pump if it loses prime. This prevents the pump from running dry, thus protecting against pump burn out and costly repair bills. It may be wired to a horn or warning light to give immediate warning that the pump has been shut down.

The Air Release Valve exhausts air that collects in the pump, which allows it to fill with liquid and ensures maximum pump efficiency.

Typical Installation

The standard 1" (25mm) APCO Air Valve with the Water Level Control Switch is mounted on the volute of a centrifugal pump as shown in the illustration. The Water Level Control Switch is normally closed with water in the switch body and the float in the up position.

The switch is wired to the pump motor control 110V holding circuit. When the water level drops it breaks the circuit, which cuts off power to the pump motor.



Models
1" (25mm) - 200A/2123
2" (50mm) - 200/2123
2" (50mm) - 205/2123

Series 4123 Sewage Air Release Valve with Water Level Control Switch

The APCO Sewage Pump Protector consists of a Sewage Air Release Valve and a Water Level Control Switch, shipped completely assembled as shown. Back flushing attachments as well as special non-corrosive trim are available.

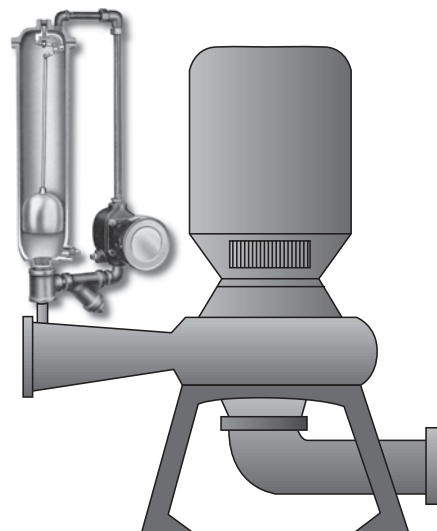
In a normal sewage pump application it is sometimes possible to pump a wet well down to the suction pipe level, thus allowing air to enter the pump. When the water level drops below the Water Level Control Switch the circuit is automatically opened, preventing the pump from running until it is properly primed. When the water level rises again, the pump may be air bound. It is at this point that the APCO Sewage Air Release Valve will expel the entrapped air. This allows the pump to fill with water, closing the Water Level Control Switch, allowing the pump to run.

This unit may also be wired to a warning device such as a horn or light to indicate loss of prime.

Typical Installation

The standard 2" (50mm) Sewage Air Valve with Water Level Control Switch is mounted on the discharge side of the vertical pump as shown in the illustration. The Water Level Control Switch is normally closed with water in the switch body and the float in the up position.

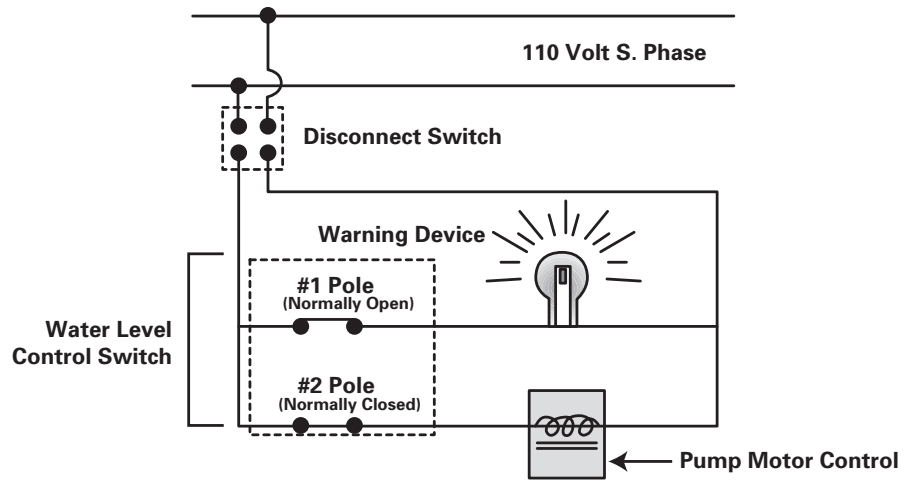
The switch is wired to the pump motor control 110V holding circuit. When the water level drops it breaks the circuit, which cuts off power to the pump motor.



Models
2" (50mm) - 400/4123
3" (80mm) - 400/4123

Wiring Diagram

This is a typical wiring diagram for an APCO Pump Protector with one or two poles.



Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

Web Site: www.dezurik.com E-Mail: info@dezurik.com



250 Riverside Ave. N. Sartell, Minnesota 56377 • Phone: 320-259-2000 • Fax: 320-259-2227

DeZURIK, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing by DeZURIK, Inc. Certified drawings are available upon request.