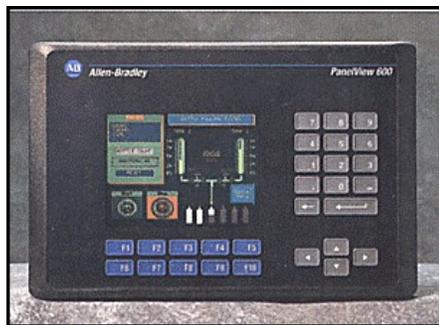




Automatic Solenoid Valves with Timers

Description

The Oxidation Systems automatic solenoid valve and timer control system is a completely integrated and automatic manifold that allows for the sequential operation of two or more zones in a multi-zone system. Solenoid valves are provided to automatically open and close based on field-adjustable timers. Ozone is automatically directed to specific wells or clusters of wells as the timing control moves through the sequence. All materials are compatible with the high concentrations of ozone produced by ozone generators.



Solenoid Valves

Valves are spring return normally closed and direct acting with a simple push-pull plunger design. There is no minimum pressure required for operation. Materials of construction include 316 stainless steel body, 400 stainless steel internal parts, and seals made of fluorocarbon elastomer (KFM). Maximum fluid temperature is 212°F (100°C); maximum ambient temperature is 130°F (54°C). Duty cycle is 100%.

Timing Control

Oxidation Systems uses Allen-Bradley programmable logic controllers (PLCs) and a graphic operator interface for timing control system. The operator interface allows the system operator to enter the on time and the off time for each valve. The PLC has an operator interface which provides simplified operation, flexibility, and virtually limitless programming alternative. The system operator can monitor the current timer setting, present valve position, the cumulative on or open time, and the number of cycles for each solenoid valve. This type of data is extremely useful in monitoring the operation and performance of the system over time.

Features

The solenoid valves offer the following features:

- **Corrosion resistant:** All stainless steel construction. Manifold is constructed of 316L stainless steel for maximum life.
- **All-welded piping:** All fittings are welded for leak-tight operation.
- **Superior Performance:** 2,000,000 cycle design.
- **Cleaned for oxygen service:** All valves are degreased and cleaned and then "black light" tested for safety.