



Valcor Scientific

Latching Actuator



INTRODUCTION

Valcor Scientific, a Division of Valcor Engineering, has designed and engineered rugged, reliable solenoid operated valves for more than 40 years.

The Latching Actuator was specifically engineered for use on both our Dri-solenoid valve series SV51 and SV52 designs as well as most of our General Purpose solenoid valve series including the SV54, SV55, SV56, SV57, SV59, SV61, SV62 and SV69 designs.

DESCRIPTION

The magnetically-latched solenoid operator is an energy saving device which allows the valve to be pulse-energized in order to change the plunger position.

With the valve in the closed position, the plunger return spring provides sufficient force to both maintain the plunger position and maintain a bubble tight seal. To change the position of the plunger the appropriate coil is pulsed energized. Once the plunger contacts the rear

stop, no further power is required. This is because the magnetic flux generated by the permanent magnet is stronger than the force exerted by the plunger return spring.

The valve will remain in the open position until the appropriate coil is pulse energized to again change the position of the plunger.

Ruggedly built for long life and reliable service, the Latching Actuator is a direct acting device which requires no minimum pressure for operation.

APPLICATIONS

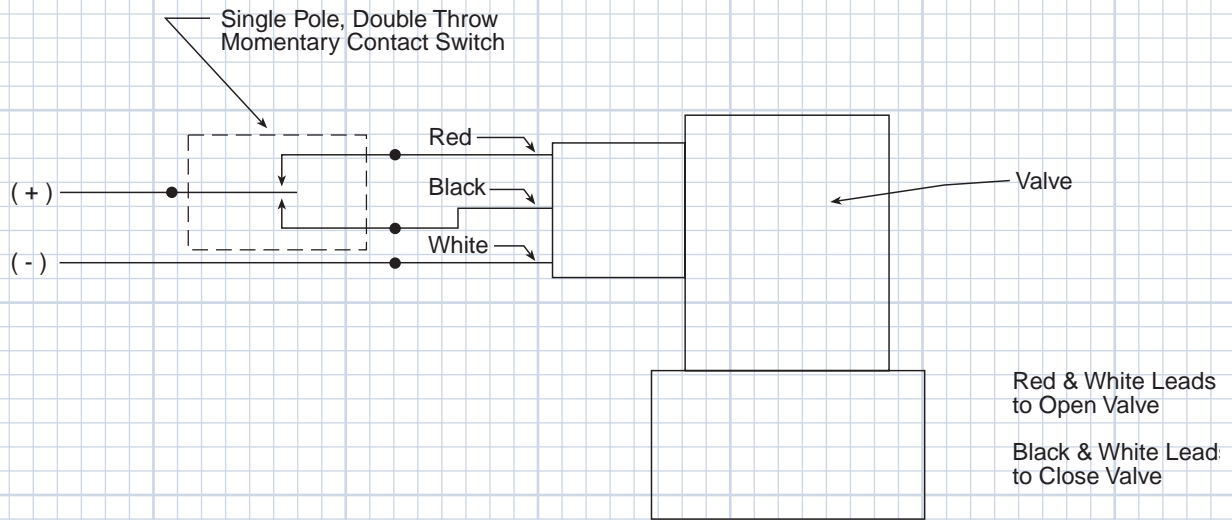
While suitable for a broad range of light industrial applications, a Latching Actuator is typically utilized in microprocessor controlled fluid handling system, battery powered systems and applications where the power consumption of a normal solenoid actuator is not desired.

The "Remain in last position" can be a desired function in many safety related applications where loss of power can cause damage to instruments or mechanical systems.

FEATURES

- Remains in last position
- Direct acting design
- Bubble tight shut-off
- No minimum pressure required for operation
- Rugged construction

SCHEMATIC LATCHING ACTUATOR



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