

Two-way solenoid valves have one inlet and one outlet, and are used to permit and shut off fluid flow.

## Two Types of Operations Apply

### Normally Closed (NC)

Fluid is shut off when the coil is de-energized, flows through the valve when the coil is energized.

### Normally Open (NO)

Fluid flows through the valve when the coil is de-energized, shuts off when the coil is energized.

## Two Types of Constructions Apply

### Direct Acting

When the solenoid is energized, the core directly opens the orifice of a Normally Closed valve or closes the orifice in a Normally Open valve. The valve will operate at pressures from 0 psi to its rated maximum. The force needed to open the valve is proportional to the orifice size and fluid pressure. As orifice size increases, so does the required force. To open larger orifices without increasing solenoid size, internal pilots are used.

### Internally Piloted

These valves use line pressure to assist operation.

When the coil is de-energized (on a Normally Closed valve), the pilot orifice is closed and line pressure is applied to the top of the piston or diaphragm through the bleed orifice, closing the valve. When the coil is energized, the core opens the pilot orifice, relieving pressure from the diaphragm or piston. Line pressure, alone, opens the valve by lifting the diaphragm or piston off the main orifice.

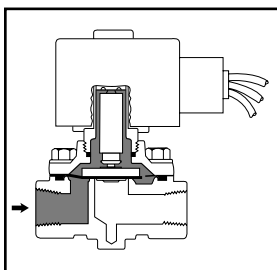
See *Engineering Section* for further details.

## Standard and Optional Features

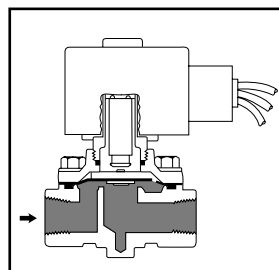
Solenoid valves are supplied, as listed, with either RedHat II molded epoxy solenoids or RedHat solenoids with metal enclosures. RedHat II valves are identified by the letter "G" or "H" in their catalog numbers; e.g., 8030G016. Many optional features may be added to your valves; e.g., high-temperature Class H molded coils, manual operators, and metering devices.

See the *Optional Features Section* for details.

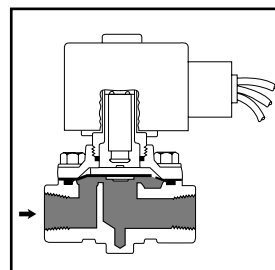
## 2-Way/2 Position Valves Flow Diagrams



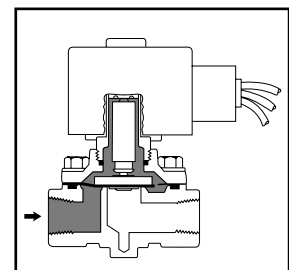
**Normally Closed Valve De-Energized**



**Normally Closed Valve Energized**



**Normally Open Valve De-Energized**



**Normally Open Valve Energized**

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