

# V526-5410

4-Way Directional Valve



Valcor Nuclear - Directional Solenoid Valve

## DESCRIPTION

The Series V526-5410, the unique 4-way directional valve, is used mainly in CANDU type power plants as part of the on-power fuel handling system. This valve is designed as a 2 position, double solenoid latching valve with manual override capability. The valve provides motive hydraulic power to the pair of remotely actuated fueling machines by controlling the flow of high pressure heavy water. Absolute leak tightness to the environment is provided by its one piece bonnet construction. The magnetic latching type solenoid operator minimizes heat build-up in the coils, increasing the life of coils and other non-metallic components.

## APPLICATION

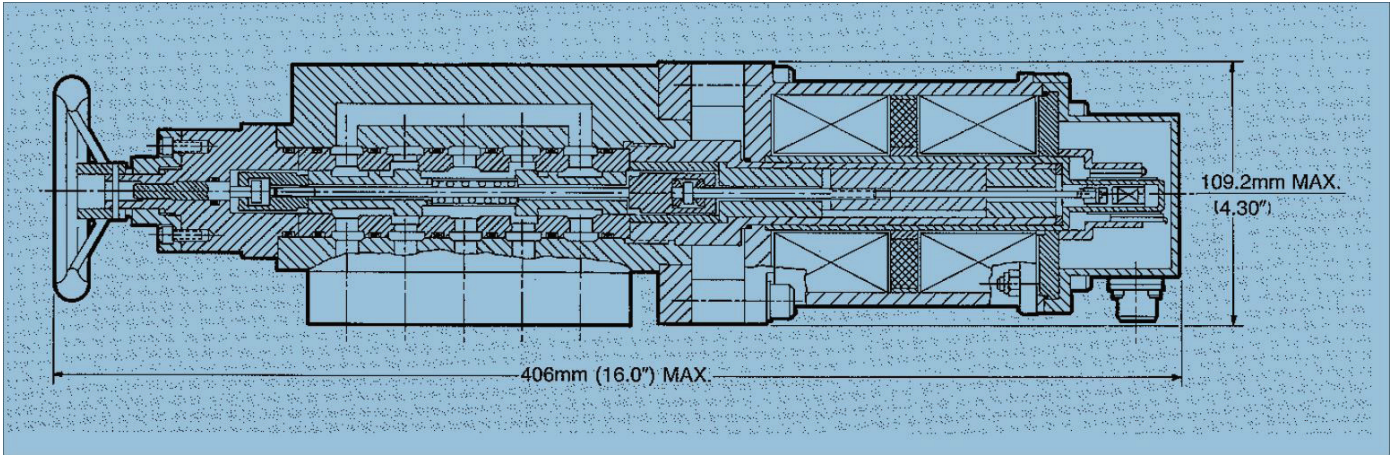
The latching type solenoid operator meets the "Fail in Last Position" requirement. Dual poppet assembly includes a shock absorbing spring to minimize seat wear ensure long cycle life. Sealing elements are carried on poppets which are non-magnetic extensions of the plunger. This solenoid valve design is insensitive to seismic loads.

## FEATURES

- Valve ratings: ANSI class 150 to 2500.
- High Cycle life. Over 100,000 operations in most applications.
- Resistant to contamination and sludge buildup.
- ASME Section III, Classes 1, 2 and 3.
- Available Fail Safe Closed, Fail Safe Open or Fail in Last Position.
- Stellite or elastomer seats.
- Position indication switches available for remote status indication.
- Solenoid and switch assemblies readily accessible for removal or maintenance without disturbing the pressure boundary.
- Stress and seismic analysis available. Qualified to IEEE 344.
- Radiation resistance: Standard:  $2 \times 10^8$  rads.



## SOLENOID VALVE SERIES 526-2410



### Specifications

#### Operating Pressure and Flow Ratings

Media	Operating Pressure (PSIG)	Ambient Temp.	Min. Volts DC	Cv
Liquid	3226	104°F	24	1.1