

# 3-WAY DIVERTING VALVES 1/2" TO 2" PIPE SIZE • FULL PORT

## APPLICATION:

Clark-Cooper's Rotary Shaft Style, 3-Way Diverting Solenoid Valves are used to control the flow of **Extremely Corrosive Fluids • Dirty Fluids • Viscous Fluids • Cryogenics • Fuel Oils • Flammable Liquids and Gases • Steam • High Temperature Liquids and Gases • Heat Transfer Liquids**. The valves are used for applications where it is desirable to divert the process fluid to another location, such as a recirculation tank.

## Fully Electric Valve

**FULLY ELECTRIC DIVERTING VALVE** diverts the process fluid when energized, returns to normal flow direction when de-energized.

## Emergency Trip Valves

**MANUALLY RESET, EMERGENCY DIVERTING VALVE** immediately diverts flow when an emergency condition exists.

- **ELECTRICALLY TRIPPED:** Valve immediately diverts flow upon electrical signal. **MANUALLY RESET.**

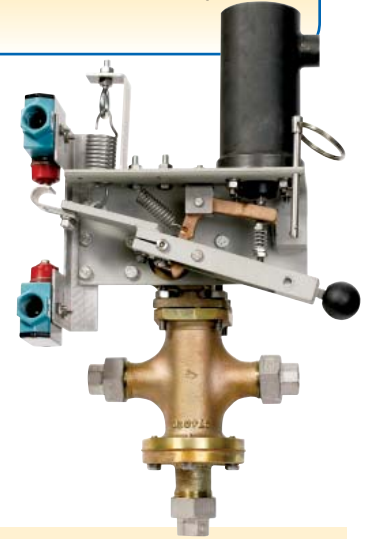
**OR**

- **TRIPS ON LOSS OF POWER:** Valve immediately diverts flow upon loss of power. **MANUALLY RESET.**

**OR**

- **HEAT ACTUATED TRIP:** Valve immediately diverts flow at 135°F, 165°F, 212°F, 286°F or 386°F. **MANUALLY RESET OPEN.**

When the emergency condition has passed, the valve **MUST BE** manually reset.



Emergency Diverting Valve, Trips on Loss of Power  
Options:

- 316 SS Union End Connections
- (2) SPDT Position Indicating Switches
- Manual Override with Lock Pin (Shown in Tripped Position)

### NO DIFFERENTIAL PRESSURE REQUIRED

All valves operate from zero to maximum pressure listed in table.

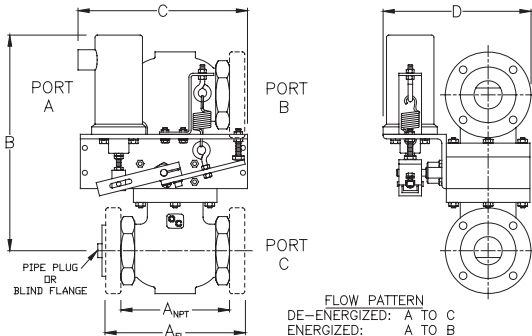
## 3-Way Valve Characteristics

Pipe Size (inches)	C <sub>v</sub>	Solenoid Series	MOPD* (PSIG)	Shipping Wt. (lbs.) (for NPT)	Dimensions (inches)					
					A NPT	A 150# FL	A 300# FL	B	C	D
1/2	4.5	400	200	20	3.3	4.3	5.5	12.5	7.0	5.0
		800	720	25				14.5		
3/4	7.8	400	50	22	3.5	7.0	7.6	12.8	8.5	5.5
		800	350	27				14.8		
1	10.5	400	25	29	4.2	7.3	7.8	13.0	9.2	5.5
		800	150	38				15.0		
1-1/2	42.8	800	35	52	4.9	6.5	7.5	17.5	12.0	7.0
2	62.5	800	15	75	6.0	8.0	9.0	18.0	14.0	8.0

\*MOPD = Maximum Operating Pressure Differential  
NOTE: Use higher (800 Series) MOPD for all Trip Valves.

Weights and dimensions are approximate.  
Maximum Fluid Temperature 550°F

### 3-Way Diverting Valve



### For Solenoid Characteristics see Page 5.

NOTE: Valve configurations vary depending on Pipe Size, End Connection, Material Selection and other factors. Consult the factory for details.

Photo at the top of the page shows a single valve body with a tailpiece configuration.

Diagram to the left shows a configuration using (2) 2-way valve bodies with one end capped.

Both configurations operate in a similar manner.

Available Construction Materials are listed on Page 3.

