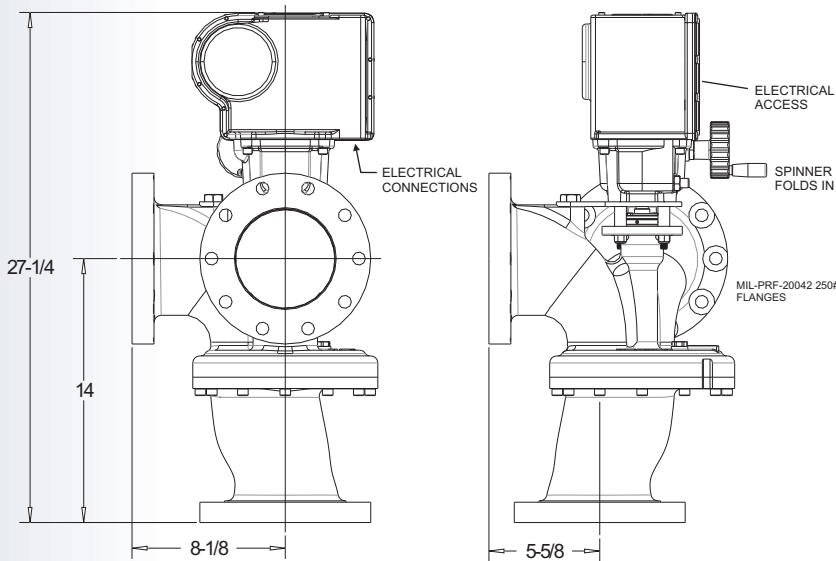


## SELECTION CRITERIA

- Seawater service
- 115 VAC, 60Hz, 1 PH, 2.5A
- Shock Qualified (MIL-S-901D)
- Vibration Qualified (MIL-STD-167)
- Cv = 212 Min.
- MIL-PRF-20042, 250 Pound Flanges
- 3-Way mixing configuration
- 5" NPS
- 180 PSI water pressure rating
- 270 PSI proof pressure

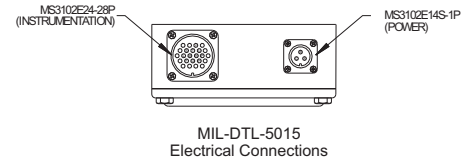
## CONSTRUCTION DETAILS

- Monel internals
- Buna-N seals
- Delrin® seat seals
- Body material: NiAl Bronze (MIL-B-24480)
- Custom Materials Available



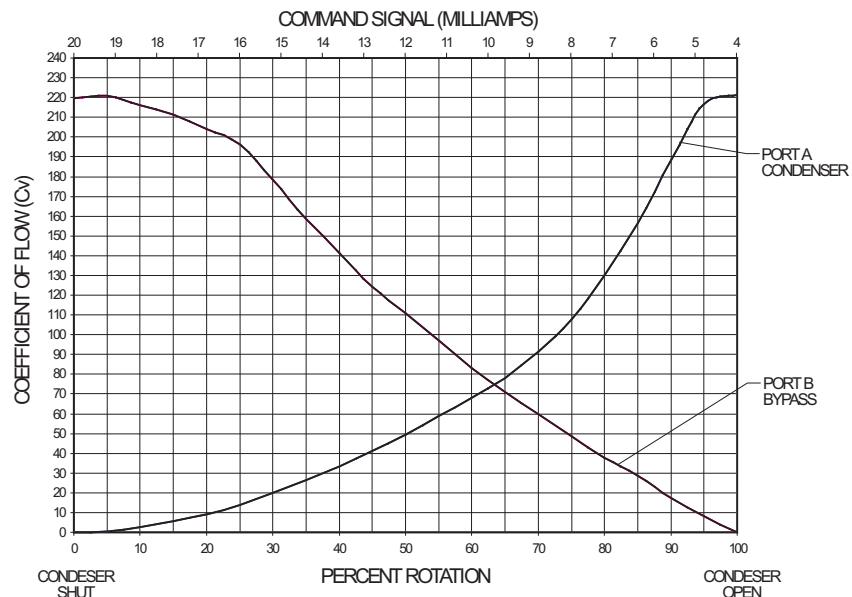
ACTUATOR PINOUT		
CONNECTOR MS3102E14S-1P (POWER)		
CONNECTOR CONTACT	TERMINATION	FUNCTION
A	TB1-1	115 VAC POWER INPUT
B	TB1-2	115 VAC POWER RETURN
C	CHASSIS	GROUND

ACTUATOR PINOUT			
CONNECTOR MS3102E24-28P (INSTRUMENTATION)			
CONDUCTOR	CONNECTOR CONTACT	TERMINATION	FUNCTION
1 BLK	M	TB1-7	4-20 MA, 24VDC VALVE POSITION INPUT POSITIVE (+)
1 WHI	N	TB1-8	4-20 MA, 24VDC VALVE POSITION INPUT NEGATIVE (-)
2 BLK	T	TB1-9	4-20 MA, 24VDC VALVE POSITION FEEDBACK NEGATIVE (-)
2 WHI	S	TB1-10	4-20 MA, 24VDC VALVE POSITION FEEDBACK POSITIVE (+)
3 BLK	L	TB1-17	VALVE FULL OPEN INDICATION TO CONTROLLER
3 WHI	F	TB1-19	VALVE FULL SHUT INDICATION TO CONTROLLER
4 BLK	G	TB1-11	AUTO/MANUAL DRY TOGGLE
4 WHI	H	TB1-12	"OPEN VALVE" DRY CONTACT
5 BLK	P	TB1-13	"STOP VALVE" DRY CONTACT
5 WHI	U	TB1-14	"SHUT VALVE" DRY CONTACT
6 BLK	Y	TB1-15	"BUTTON COMMON" DRY CONTACT



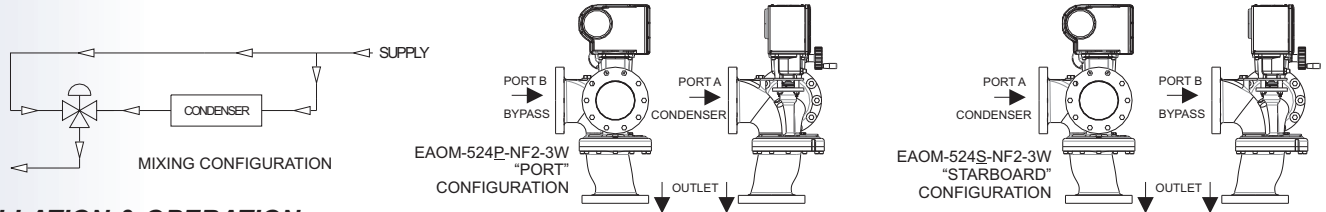
VALVE WEIGHT: 150 LBS.

## FLOW DATA



## TYPICAL APPLICATION / CONFIGURATION

- Typically used to modulate the cooling water through a condenser in response to a control signal from the condenser. Refrigerant head pressure is maintained over a wide range of operating conditions for maximum system operating efficiency.



## INSTALLATION & OPERATION

Valves can be mounted in any position without affecting performance. However, consider the accessibility of the electrical connections and the manual override handwheel.

A control disc positions proportionally in response to a 4-20mA control signal to the actuator. An opening in the control disc allows one port to open as it covers the other. Adjustable limit switches in the actuator determine the two extreme positions of the control disc.

All electrical connections are provided on two MIL-DTL-5015 connectors.

Mechanical stops are provided on the valve actuator as a safety feature to protect the valve from damage due to manual or automatic operation past the limits of the valve. Electrical limit switches OLS1 and CLS1 provide the means for stopping valve rotation at its endpoints of travel. A visual position indicator on top of the actuator shows an open, closed or interim valve position.

Torque limitation is provided to protect both the motor and the valve (OTS1 and CTS1).

The actuator motor contains built-in thermal protection.

The actuator provides remote position indication/feedback via a 4-20mA position output module (loop powered). A visual position indicator on top of the actuator shows an open, closed or interim valve position.

