365P-FL-2W

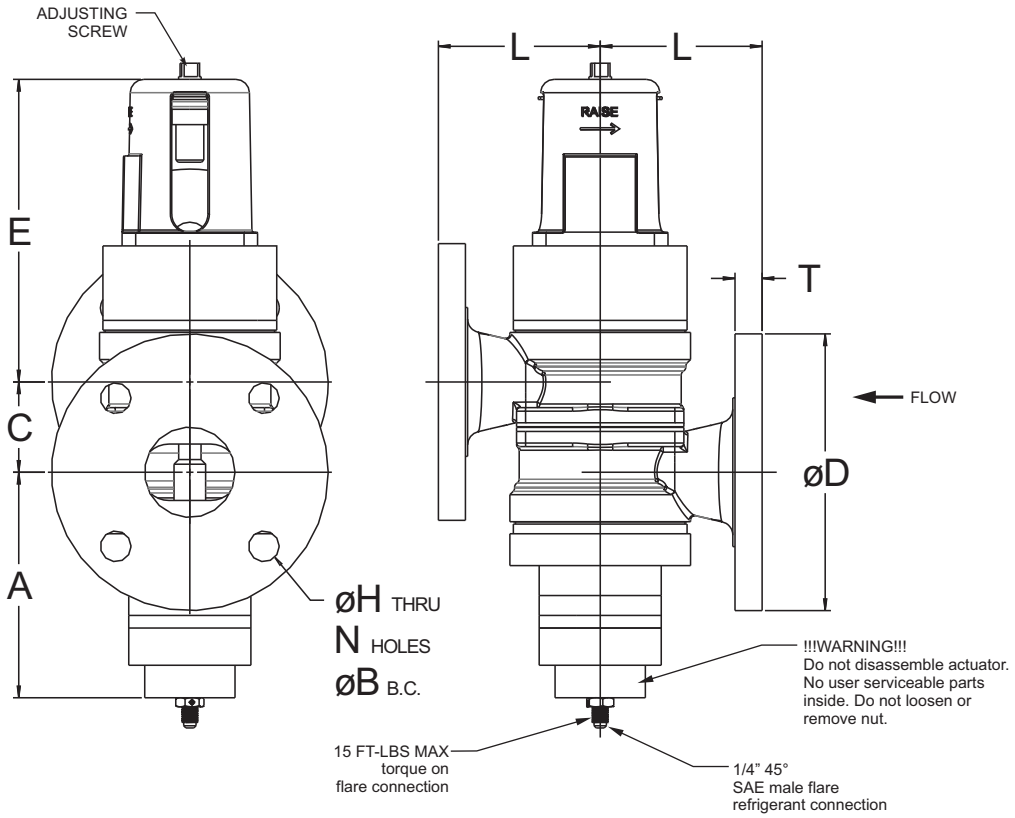
2-WAY DIRECT ACTING, EXTENDED CAPACITY WATER REGULATING VALVE FOR HIGH PRESSURE REFRIGERANTS

SELECTION CRITERIA

- Fresh water use
- Direct acting
- R-410a service
- Cv=58
- Open on pressure increase
- Optional open on pressure decrease
- Flanged end connections
- 2-Way configuration
- 2-1/2” size
- 150 PSI water pressure rating
- 650 PSI refrigerant pressure rating

CONSTRUCTION DETAILS

- Brass & Stainless Steel internals
- Buna-N diaphragms & seals
- Body material: See Table II
- Flange: See Table II



VALVE SIZING CHART

VALVE PART NUMBER	VALVE SIZE	C_V	VALVE DIMENSIONS			
			A ±.13	C ±.06	E ±.13	L ±.06
365P-250-_FL_-2W	2-1/2"	58	6.25	2.50	8.32	4.13

All dimensions are in inches

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ORDERING INFORMATION

- Use the valve sizing chart on the preceding page, tables, and charts below to determine the complete part number.

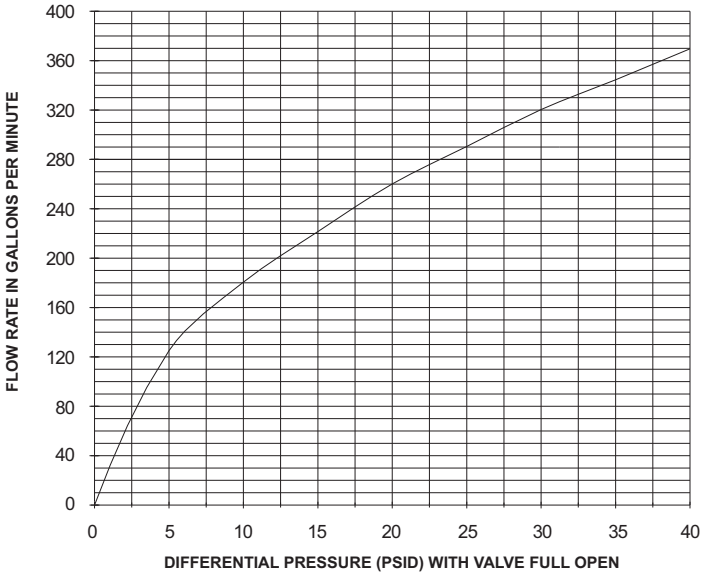
BASIC PART NO.: 365P-250-_FL_-2W

VALVE CONFIGURATION (R or L, BLANK FOR PARALLEL)

TABLE II (1 or 2)

EXAMPLE:
365P-250-RFL1-2W
Outlet to right configuration
ANSI B16.1 Cast iron body

VALVE FLOW DATA



PRESSURE RANGE ADJUSTMENT

- The refrigerant pressure range at which the valve begins to open can be adjusted from approximately 180 to 340 PSIG. An increase in refrigerant pressure of approximately 60-65 PSIG is required to fully open the valve.

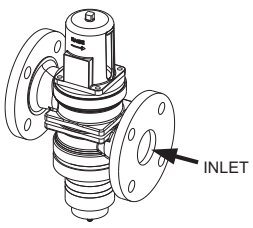
BODY OPTIONS

TABLE II

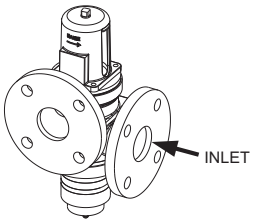
ASSEMBLY NUMBER	MATERIAL	FLANGE SPECIFICATION	DESIGN PRESS.	PROOF PRESS.	FLANGE DIMENSIONS				
					N	H	B	D	T
-250-_FL1-	CAST IRON	ANSI B16.1 CLASS 125 LB.	150 PSI	225 PSI	4	0.75"	5.50"	7.00"	0.69"
-250-_FL2-	BRONZE	ANSI B16.24 CLASS 150 LB.	150 PSI	225 PSI	4	0.75"	5.50"	7.00"	0.56"

VALVE CONFIGURATION

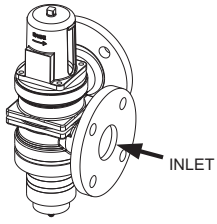
FL
OUTLET PARALLEL



LFL
OUTLET TO THE LEFT



RFL
OUTLET TO THE RIGHT



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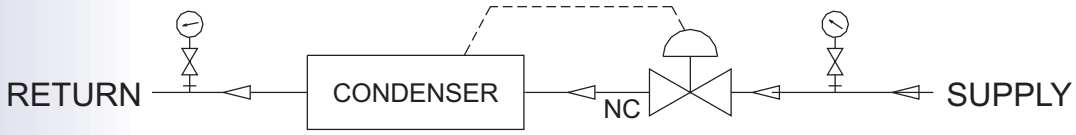
2-WAY HEAD PRESSURE REGULATOR TYPICAL APPLICATION

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



INSTALLATION INSTRUCTIONS

1) Valves can be mounted in any position without affecting performance. However, for ease of adjustment consider the accessibility of the adjusting screw.
2) Connect the incoming water line to the valve inlet. Direction of water flow is indicated by the arrow cast on the side of the valve body.
3) Connect refrigerant connection capillary to refrigerant pressure connection on the condenser.
4) See Metrex datasheet 50M-366 for available capillary assemblies for connecting the valve.
5) Do not disassemble actuator. There are no user serviceable parts inside the actuator.

GENERAL DESCRIPTION

- The 365 series valves are direct acting, modulating water regulating valves utilizing a diaphragm construction to give smooth, well balanced action. The pressure-balanced design and low frictional coefficient of the diaphragms assure fast response to changes in refrigerant pressure and protection against both gradual and sudden water pressure changes. All sliding parts and adjustment springs are isolated from the water flow by the leak proof diaphragms. This valve has an increased capacity over similar 2-1/2” valves with a Cv of 58. The actuator is designed for use with R-410a and is rated at a full 650 PSIG.

ADJUSTMENT

- The 365P series valves are suitable for R-410a service. The refrigerant pressure at which the valve begins to open can be adjusted between 180 and 340. A 60-65 PSI increase of refrigerant pressure is required to fully open the valve.

  To adjust condensing head pressure, use the adjusting screw on top of the spring housing. Turn counter clockwise to raise the opening point (raise head pressure). Turn clockwise to lower the opening point (lower head pressure).

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