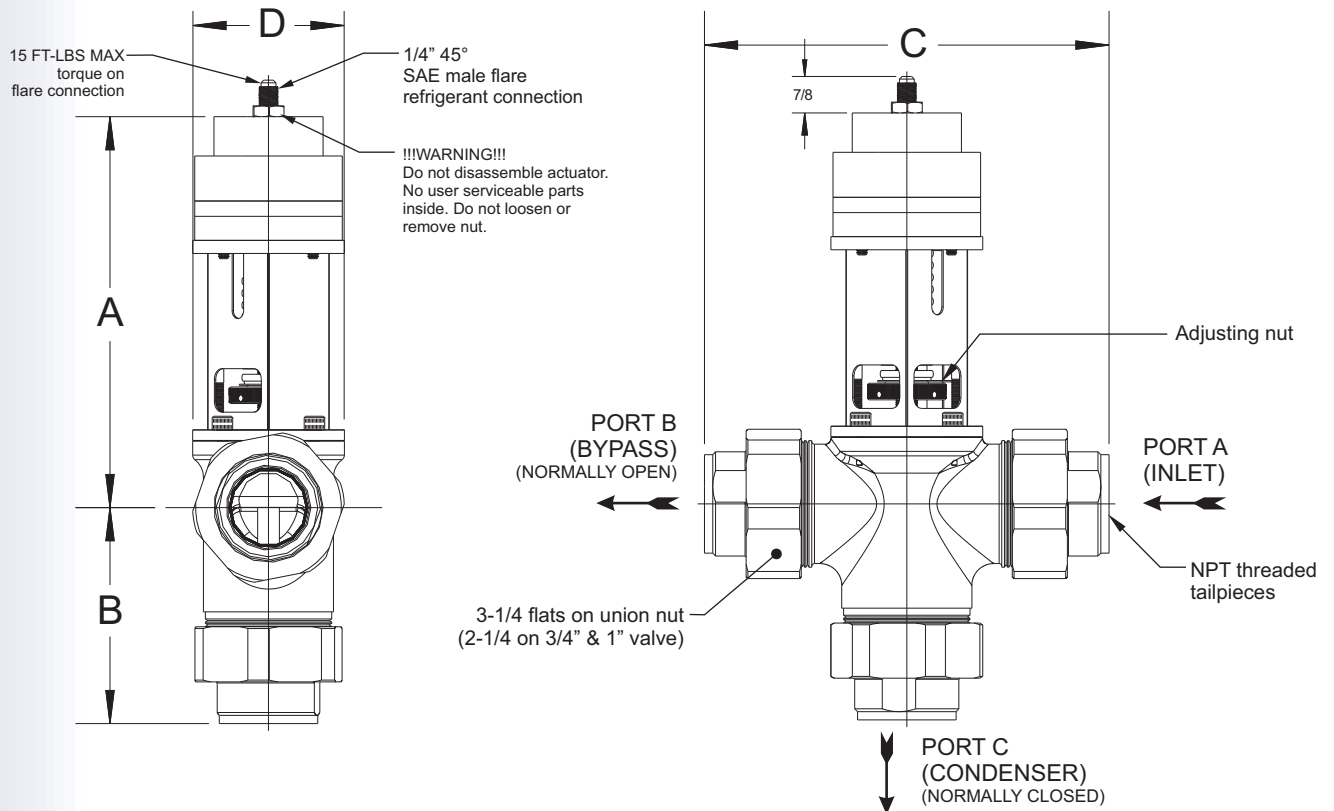


## SELECTION CRITERIA

- Fresh water use
- Direct acting
- R-410a service
- High water pressure
- O-Ring seals
- Union connections
- 3-Way diverting configuration
- 3/4", 1", 1-1/4" & 1-1/2" sizes
- 350 PSI water pressure rating
- Optional 500 PSI water pressure rating
- 650 PSI rated actuator

## CONSTRUCTION DETAILS

- Brass & stainless steel internals
- Cast iron body
- Buna-N o-ring seals



## VALVE SIZING & RATING CHARTS

VALVE PART NUMBER	PIPE SIZE	C <sub>v</sub> MIN PORT C PORT B	DIMENSIONS				APPROX. WEIGHT
			A ± .12	B ± .06	C ± .12	D ± .06	
9365P_H-75-__	3/4"	$\frac{11}{11}$	9.00	3.87	7.93	3.50	13#
9365P_H-100-__	1"	$\frac{11}{11}$	9.00	3.87	7.93	3.50	13#
9365P_H-125-__	1-1/4"	$\frac{14.5}{11}$	9.00	5.00	9.38	3.50	17#
9365P_H-150-__	1-1/2"	$\frac{17}{14.5}$	9.00	5.00	9.38	3.50	18#

WATER PRESSURE RATING	
BASE PART NO	RATING
9365PH	350 PSIG
9365PEH	500 PSIG

All dimensions are in inches

## ORDERING INFORMATION

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

### BASIC PART NO.: 9365P H- -

500 PSI option (add "E") \_\_\_\_\_  
 Size ("3/4", "100", "125", "150") \_\_\_\_\_  
 Set point range ("1", "2") \_\_\_\_\_

Example: • **9365PH-125-1** { • Standard 350 PSI rating  
 • "125" = 1-1/4" pipe size  
 • "1" = 240-350 set point range

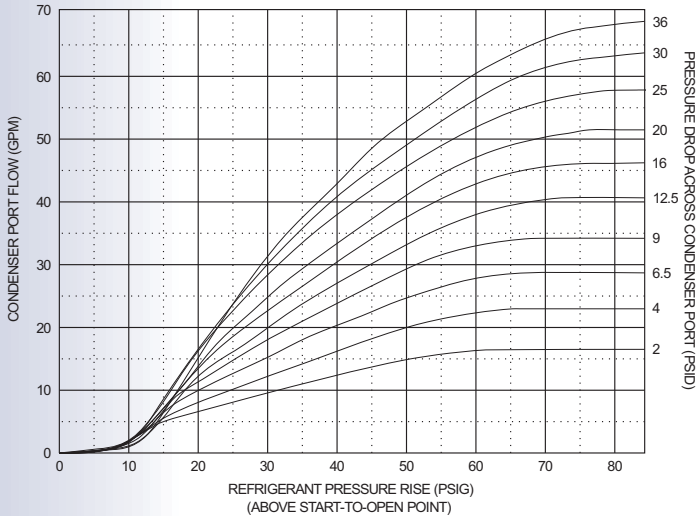
## PRESSURE RANGE ADJUSTMENT

- The refrigerant pressure range at which Port C begins to open can be adjusted per Table I.

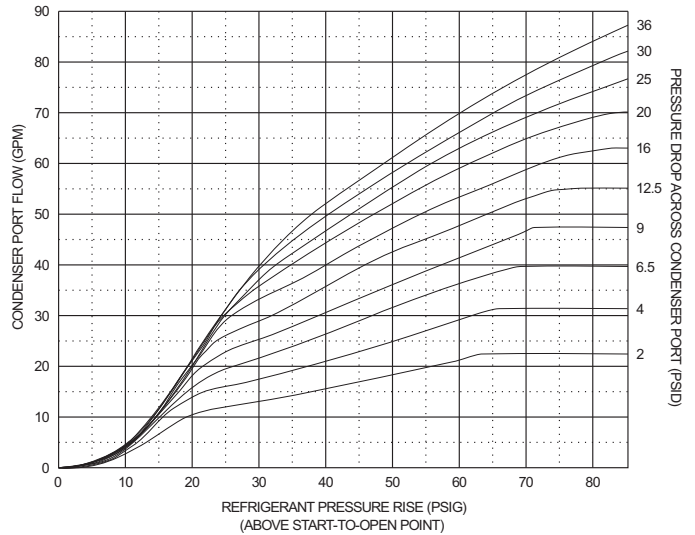
TABLE I	
SET POINT RANGE	ADJUSTMENT
1	240-350 PSIG
2	TBD

## FLOW DATA

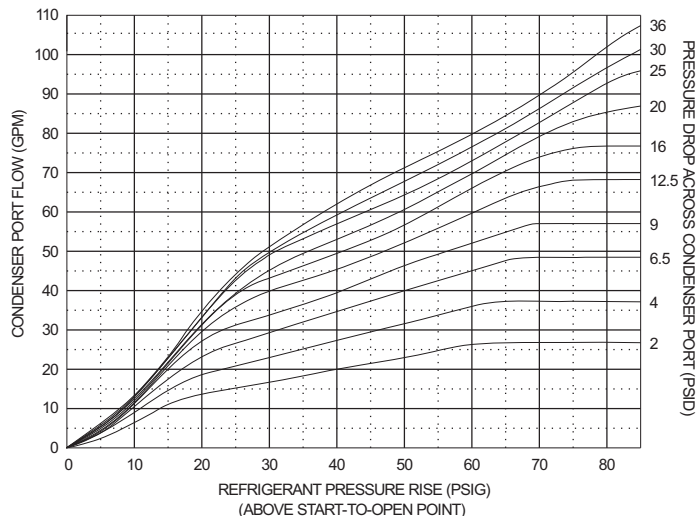
9365PH-75 & 9365PH-100 (3/4" & 1")  
PRESSURE RISE vs. FLOW



9365PH-125 (1-1/4")  
PRESSURE RISE vs. FLOW

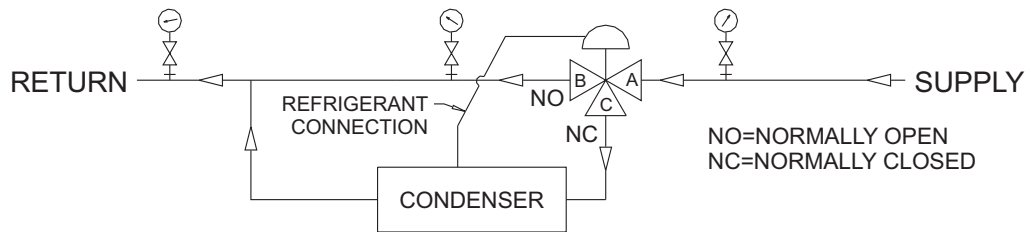


9365PH-150 (1-1/2")  
PRESSURE RISE vs. FLOW



## 3-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

- Valves can be mounted in any position without affecting performance. However, for ease of adjustment consider the accessibility of the adjusting nut.
- Connect the incoming water line to the valve inlet (Port A). Direction of water flow is indicated by the arrow cast on the side of the valve body. Port C (normally closed) is typically piped to the condenser inlet. Port B should be piped to bypass the condenser.
- Connect refrigerant connection capillary to refrigerant pressure connection on the condenser.
- See Metrex datasheet 50M-366 for available capillary assemblies for connecting the valve.
- Do not disassemble actuator. There are no user serviceable parts inside the actuator.

## ADJUSTMENT

- The refrigerant pressure at which Port C begins to open can be adjusted as shown in Table I. Port B closes proportionally as Port C opens. To increase the refrigerant head pressure setting, insert a 1/8" pin or hex key into the adjustment nut and turn counter-clockwise. To lower refrigerant head pressure setting, turn adjustment nut clockwise.

## GENERAL DESCRIPTION

- The 9365PH series valves are high, pressure, direct acting, modulating water regulating valves. All water pressure boundaries are o-ring sealed for leak-proof, set & forget reliability. The high pressure actuator is designed for R-410a refrigerant applications and is rated at a full 650 PSIG. Union ends with special o-ring seals make for quick and easy installation.