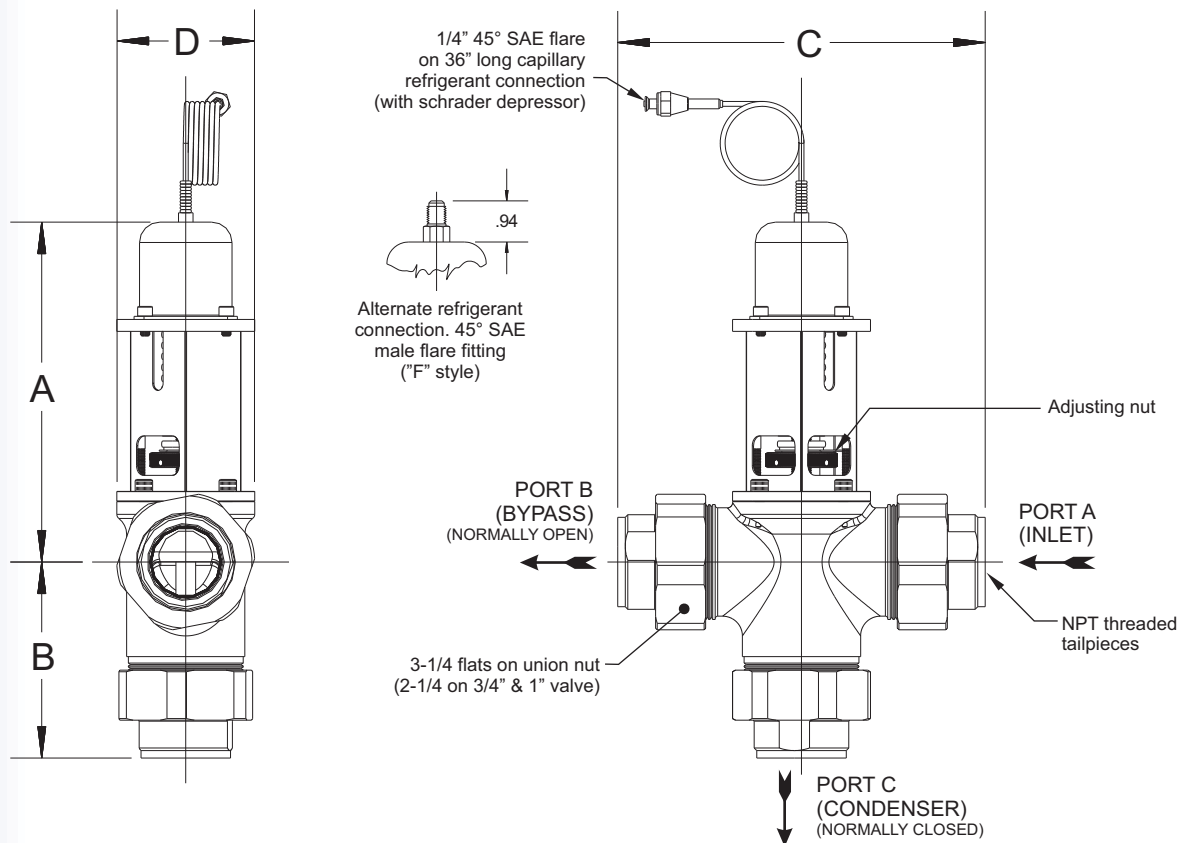


## SELECTION CRITERIA

- Fresh water use
- Direct acting
- 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

## 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	
93P_H_-75-	3/4"	$\frac{11}{11}$	8.65	3.87	7.93	3.50	13#
93P_H_-100-	1"	$\frac{11}{11}$	8.65	3.87	7.93	3.50	13#
93P_H_-125-	1-1/4"	$\frac{14.5}{11}$	8.65	5.00	9.38	3.50	17#
93P_H_-150-	1-1/2"	$\frac{17}{14.5}$	8.65	5.00	9.38	3.50	19#

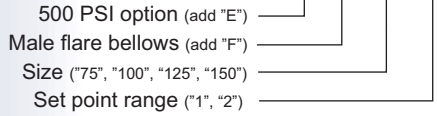
WATER PRESSURE RATING	
BASE PART NO	RATING
93PH	350 PSIG
93PEH	500 PSIG

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.: 93P H - -**



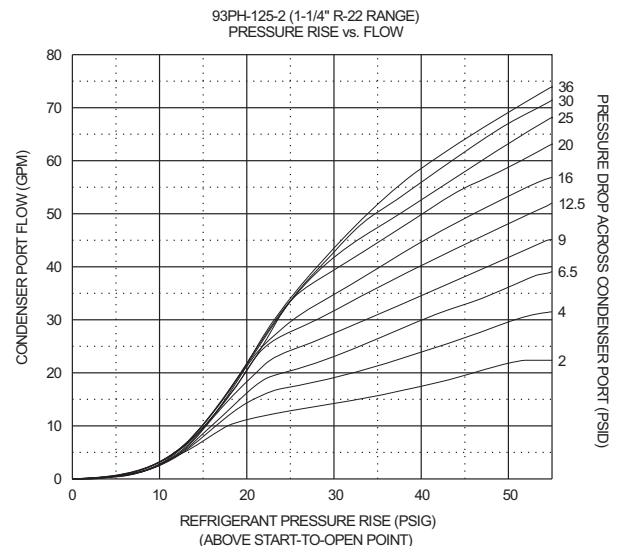
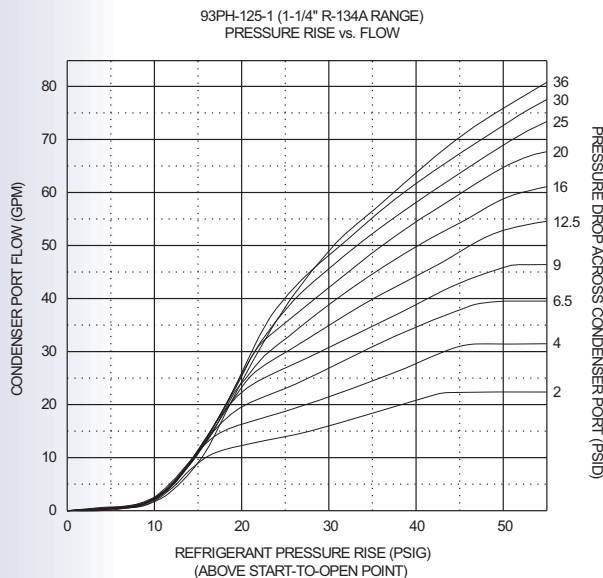
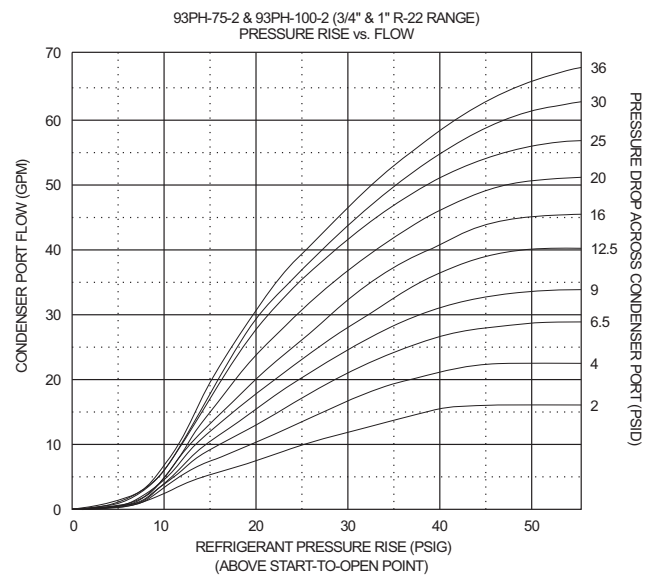
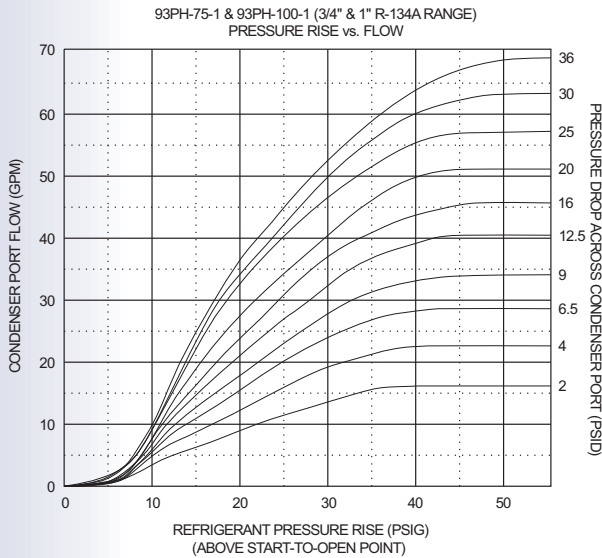
- Example: • **93PH-125-2**
- Standard 350 PSI rating
  - Standard capillary w/flare nut
  - "125" = 1-1/4" pipe size
  - "2" = 150-220 set point range

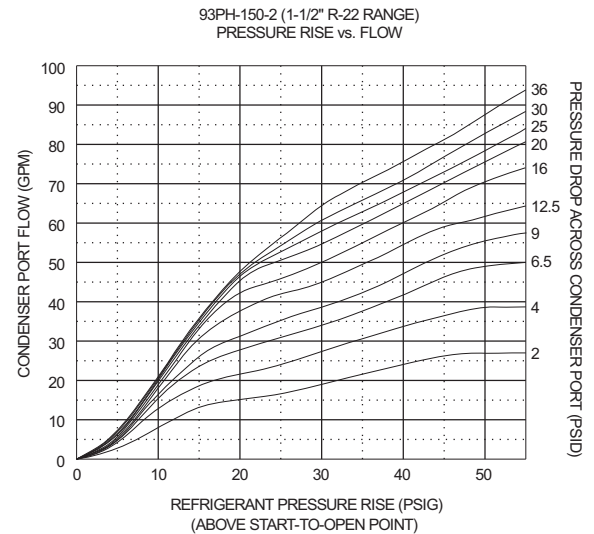
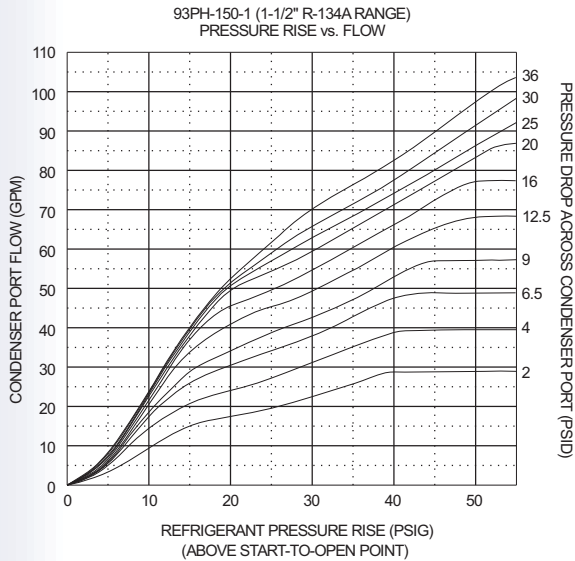
## PRESSURE RANGE ADJUSTMENT

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

TABLE I	
SET POINT RANGE	ADJUSTMENT
1	70-150 PSIG
2	150-220 PSIG

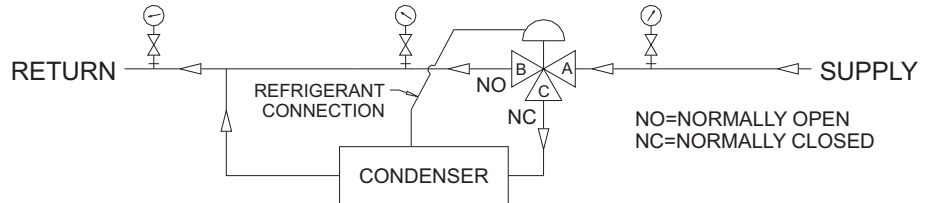
## FLOW DATA





## 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.

## 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 93PH 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. Union ends with special o-ring seals make for quick and easy installation.