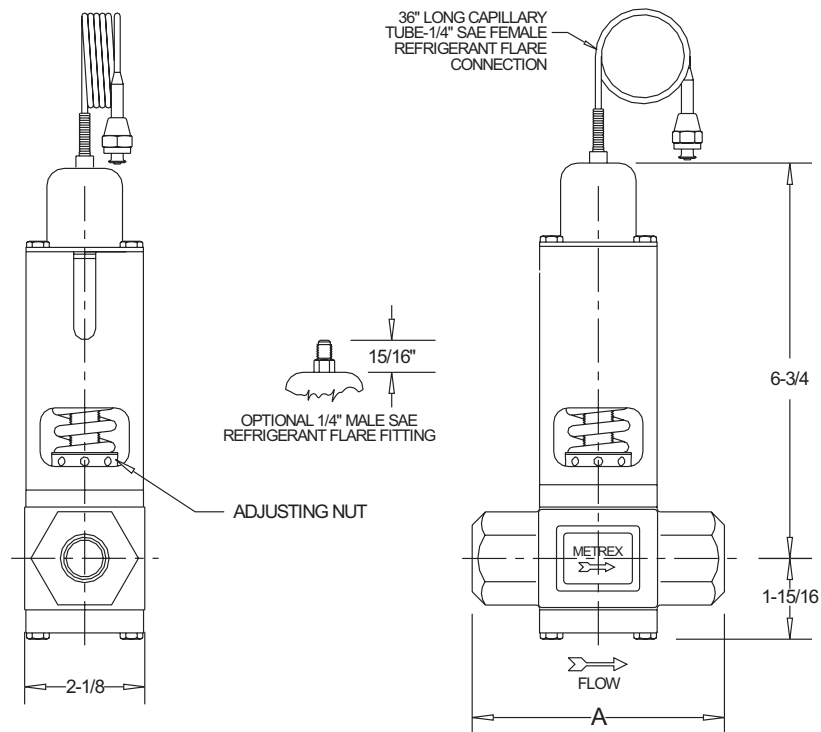


## SELECTION CRITERIA

- Fresh water use
- Direct acting
- Actuation by pressure
- Open on pressure increase
- 350 PSI water pressure rating
- Optional water pressure rating to 500 PSI
- NPT end connections (British threads available)
- 2-way configuration
- 3/8" thru 1" sizes
- For high refrigerant pressure applications up to 460 PSIG, including R410a

## CONSTRUCTION DETAILS

- Brass & Stainless Steel internals
- All O-Ring sealed (Buna-N)
- Brass body



## VALVE SIZING CHART & WATER SIDE PRESSURE RATING

VALVE PART NUMBER	PIPE SIZE	$C_v$	A
WCCWHR-3050	3/8"	2.2	4-3/8
WCCWHR-3060	1/2"	2.6	4-3/8
WCCWHR-3070	3/4"	4.5	4-3/8
WCCWHR-3080	1"	6.0	4-15/16

WATER SIDE PRESSURE RATING			
PRESSURE RATING	STANDARD	H	EH
DESIGN PRESSURE	350 PSI	400 PSI	500 PSI
PROOF PRESSURE	525 PSI	600 PSI	750 PSI

## ORDERING INFORMATION

Use the valve sizing chart on the preceding page to determine the complete part number.

**BASIC PART NO.: WCCWHR -3070**

BELLOWS OPTIONS \_\_\_\_\_  
VALVE SIZING CHART \_\_\_\_\_  
PRESSURE RATING \_\_\_\_\_

## PRESSURE RANGE ADJUSTMENT

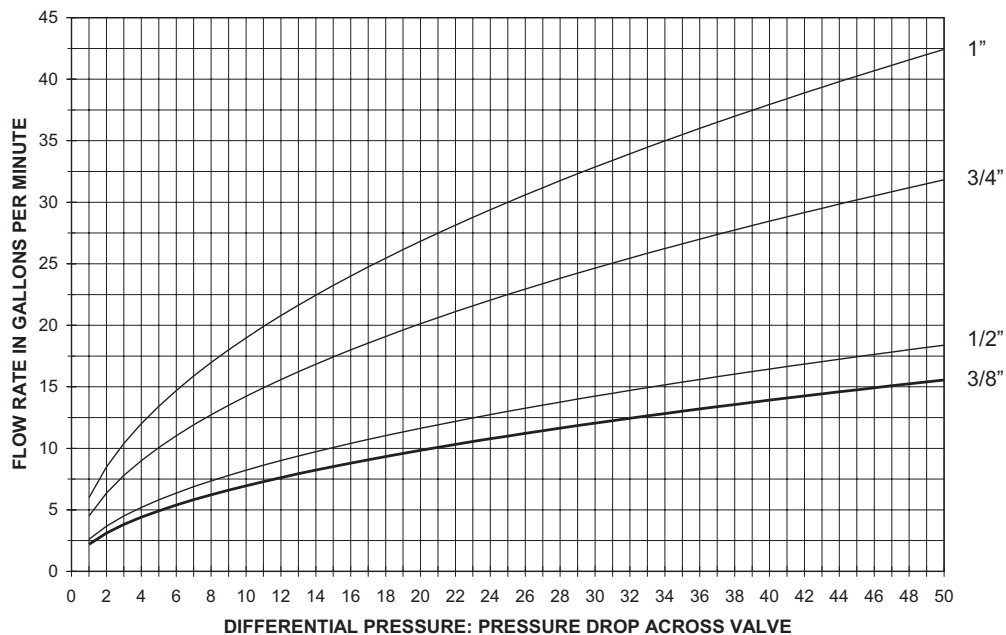
- The refrigerant pressure at which the valve begins to open can be adjusted from 150 to 345 PSI. An approximate 55 PSI increase of pressure is required to fully open the condenser port.

## BELLOWS OPTIONS

- The optional 1/4" male SAE flare fitting for refrigerant pressure connection is designated by an "F" after the WCCWHR\_. The 1/4" SAE flare fitting replaces the 36" long capillary tube connection.

Example: WCCWHRF-3080

## FLOW DATA

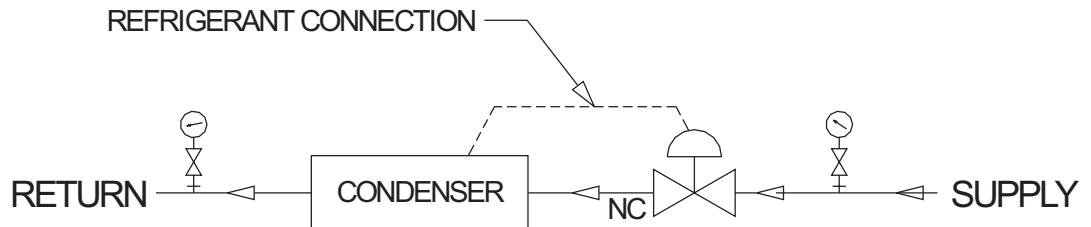


## GENERAL DESCRIPTION

- The WCCWHR series valves are direct acting, modulating water regulating valves utilizing all o-ring construction to accommodate high water pressures up to 500 PSI. Suitable for refrigerant pressures up to 460 PSI.

## 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

- 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. Connect condenser port and bypass port as shown above. Direction of water flow is indicated by the arrow cast on the side of the valve body.
- Connect capillary tube (or 1/4" flare nut) to refrigerant head pressure connection on condenser.

## ADJUSTMENT

- All valves in 3/8" through 1" sizes are primarily for R-410a service. The refrigerant pressure at which the valve begins to open can be adjusted from 150 to 345 PSI. An approximate 55 PSI increase of refrigerant pressure is required to fully open the condenser port.

To increase the actuating refrigerant head pressure, insert a pin or hex key into the adjustment nut and turn counter-clockwise. To lower actuating refrigerant head pressure, turn adjustment nut clockwise.