

GENERAL DESCRIPTION

This three-way valve is suitable where it is desired to open one line and close another by the operation of the regulator. It can be used for water or brine service.

When used on a regulator to control circulation of cooling water for an internal combustion engine, this valve is employed to by-pass part of the cooling water around the cooling system or heat exchanger.

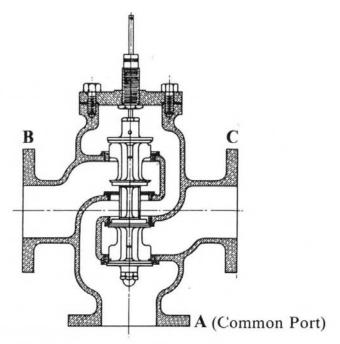
The letters "A", "B" and "C" appear on the valve flanges to indicate connections for proper installation.

SPECIFICATIONS

	Three-way. Balanced
Size:	
	Modulating.
	Opens one line, closes another
Connections:	Flanged
	Class 125 ANSI flat face
Materials:	
Valve Trim:	Bronze (valve stem assembly
	and seat inserts)
Valve Stem:	Type 316 stainless steel
	Quick disconnect type
Stem Packing	: Rubber U-cup
<i>Body:</i>	Cast iron
Other Parts:	Bronze
Capacity, Cv:	
A to B:	
A to C:	91
Maximum Valve	Design Ratings:
Pressure/Temp	<i>perature:</i> 100 psi @ 100° F
	100 psi @ 350° F
Pressure Drop	p: 50 psi

Sales Manual Section 160 PRODUCT SPECIFICATION STYLE "WBI" (For Temperature Regulator Service)

Style "WBI" Valve Assembly



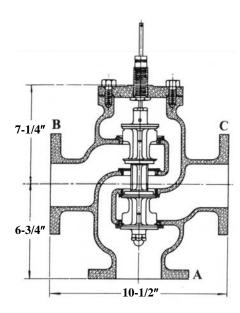
With stem up, port B is open. With stem down, port C is open.

FEATURES

- Balanced Three-Way Valve
- 3" Size



DIMENSIONS



Valve Size	3"
Valve Stroke	1/2"
Diameter of Flanges	7-1/2"
Thickness of Flanges	13/16"
Diameter of Bolt Holes	3/4"
Diameter of Bolt Circles	6"
Number of Bolts (per flange)	4
Size of Bolts	5/8"
Length of bolts	2-1/2"
Size of Ring Gaskets	3 X 5-3/8"

NOTES:

Flanges have plain face. Drilling templates are in multiples of four so fittings may be made to face any quarter. Bolt holes straddle center line.

Maximum factory test allowable leakage is approximately 0.5% of rated valve capacity at 10 psi water.

Type "WBI" used with self-actuated temperature regulator series. Maximum Recommended Pressure Drops

SATR SERIES							
RT-1003 R	T-1004	RT-1007	RT-1008	RT-1009	RT-1010	RT-1011	
50	50	35	50	50	50	50	

Repair Kit 98584-S1

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INSTALLATIONS

Diverting

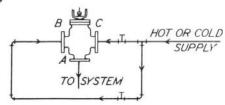


Figure 1. Showing how connections would be made where it is desired to shift from heating service to cooling service by manually opening and closing proper valves in the supply line.

Blending

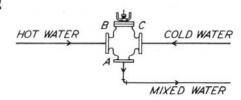


Figure 2. Illustrating a simple means for blending hot and cold where a rough mixing is suitable.

Diverting

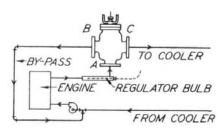


Figure 3. The drawing above illustrates the most widely used method of cooling water control for internal combustion engines.



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