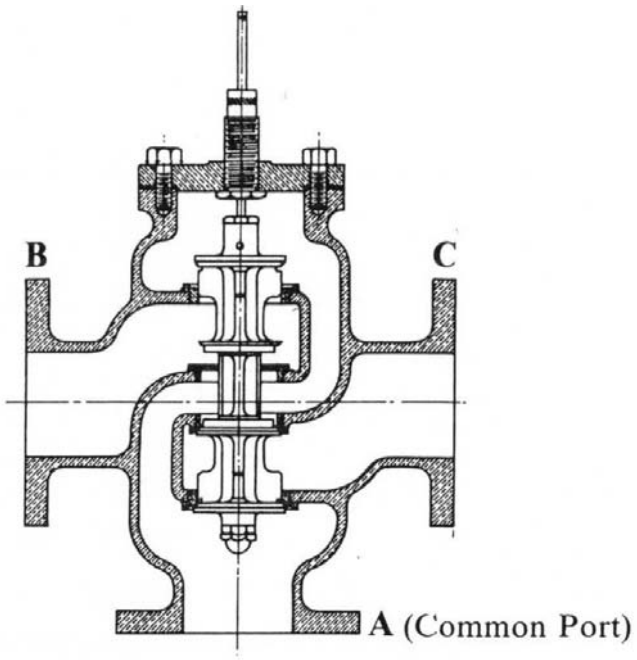
Style "WBI" Valve Assembly

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 VC-230A/VC-231A actuator 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.



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

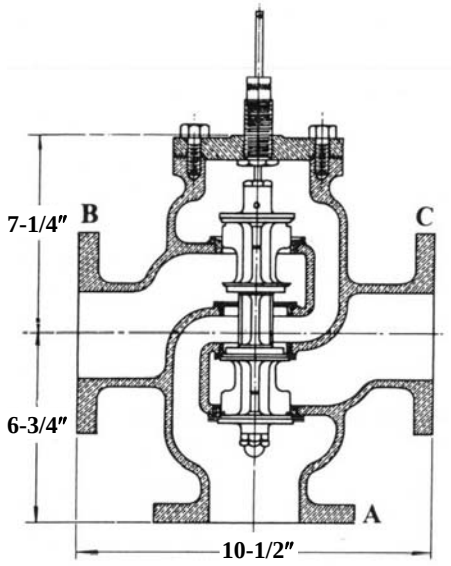
SPECIFICATIONS

Type: ..... Three-way. Balanced
Size: ..... 3″
Action: ..... 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
Body: ..... Cast iron
Other Parts: ..... Bronze
Capacity, Cv:
A to B: 93
A to C: 91
Maximum Valve Design Ratings:
Pressure/Temperature: ..... 100 psi @ 100° F
100 psi @ 350° F
Pressure Drop: ..... 50 psi

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.

Repair Kit 98584-S1

INSTALLATIONS

Diverting

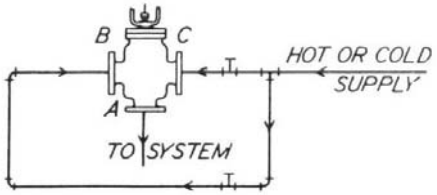


Figure 1. Showing how connections would be made where it is desired to shift from heating service to cooling service by manually opening and closing proper valves in the supply line.

Blending

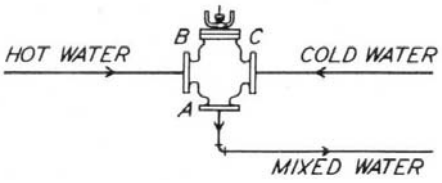


Figure 2. Illustrating a simple means for blending hot and cold where a rough mixing is suitable.

Diverting

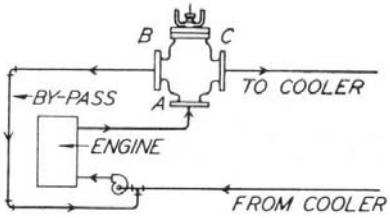


Figure 3. The drawing above illustrates the most widely used method of cooling water control for internal combustion engines.

Robertshaw
INDUSTRIAL PRODUCTS

U.S.A. & Canada

Robertshaw Industrial Products
1602 Mustang Drive
Maryville, Tennessee 37801
Phone: (865) 981-3100 Fax: (865) 981-3168
http://www.robertshawindustrial.com

Exports

Invensys Appliance Controls
1701 Byrd Avenue
P.O. Box 26544
Richmond, Virginia 23261-6544
Phone: (804) 756-6500 Fax: (804) 756-6561

invensys®

Q-4173 (8/04) **Printed in U.S.A.**