



## Style "WCSS" Valve Assembly

### Features:

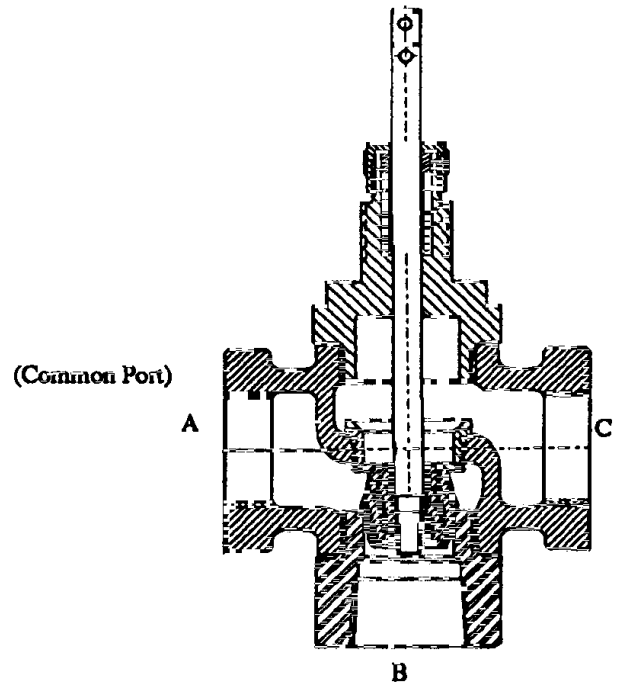
- Sizes 4", 3/4", 1"
- 3-Way Type
- All Stainless Steel Construction
- Quick Disconnect Stem

### General Description

These valves are especially suited for Control Valve applications requiring opening one line and closing another by operation of the actuator to which it is attached. Typical service is bypass, diverting, blending and alternating hot-cold service.

Valve stems of highly finished type 316 stainless steel feature quick-disconnect valve stem construction which permits removal of valve from regulator without disturbing valve stem stroke adjustment in the actuator.

Stainless steel body and trim make this valve ideal for most any process material and ambient conditions.



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

### Specifications

**Type:** ..... 3-Way

**Size:** ..... 1/2", 3/4", 1"

#### Materials:

*Stem* ..... 316 SS

*Plug* ..... 316 SS

*Seat Ring* ..... 316 SS

**Body:** ..... CF8M (316 SS)

**Packing:** ..... Teflon Chevrons with 316 SS Spring

**Ends:** ..... Female Thread

**Other Parts:** ..... Stainless Steel

**Maximum Leakage (Factory Test):** ..... 0.10% of rated flow at 50 psig

**Maximum Pressure/Temperature:** ..... 450 psig at 100° F.  
 450 psig at 450° F.

### Flow (Preliminary)

Size	End Connection	Port Size	Max. Pres. Drop	Cv	Max. Seat Leakage @ 50 ΔP	Flow	Unbalanced Area (sq. In.)
1/2"	1/2 NPT	1/2	40 psig	A-C 2.2 A-B 2.2	59 cc/min.	Linear	.255
3/4"	3/4 NPT	3/4	40 psig	A-C 4.6 A-B 4.6	123 cc/min.	Linear	.442
1"	1 NPT	1	40 psig	A-C 9.0 A-B 9.0	241 cc/min.	Linear	.785

## INSTALLATIONS:

### Alternating:

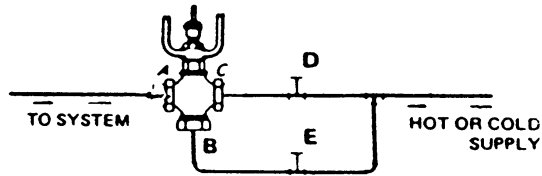


Figure 1. Showing how connections would be made where it is desired to shift from heating service to cooling service by manually opening and closing proper valve in the supply line.

### Blending:

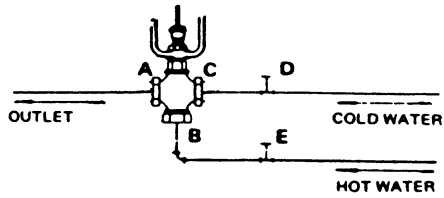


Figure 2. Illustrating a simple means for blending hot and cold water where a rough mixing is suitable.

### Diverting:

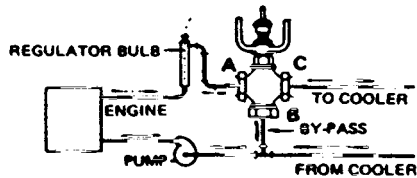
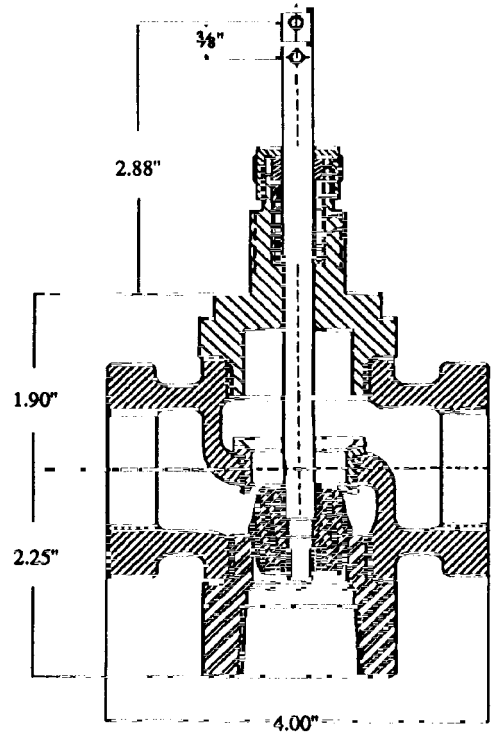


Figure 3. The drawing above illustrates the most widely used method of cooling water control for internal combustion engines.

## DIMENSIONS:



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