

Style "WCSS" Valve Assembly

Features:

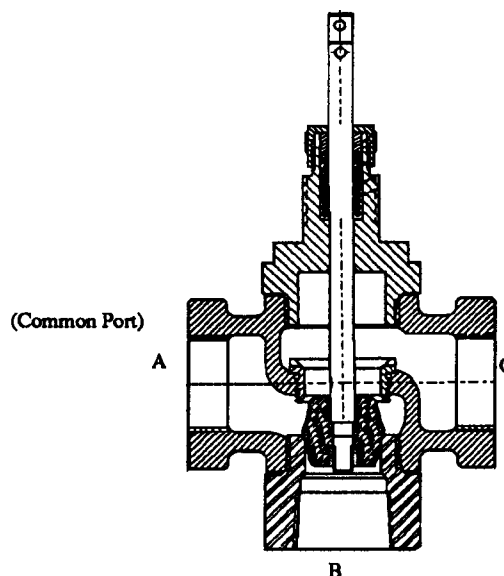
- Sizes 4", 3/4", 1"
- 3-Way Type
- All Stainless Steel Construction
- Quick Disconnect Stem

General Description

These valves are especially suited for Temperature Regulators for applications requiring opening one line and closing another by operation of the regulator 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 upperworks.

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 max. at 100°F.
 450 psig max. at 450°F.

Flow (Preliminar)

Size	End Connection	Port Size	Max. Pres. Drop	Cv	Max. Seat Leakage @ 50 Δ P	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

Style WCSS used with self-actuated temperature regulator series.
Maximum Recommended Pressure Drops PSI*

Valve Size In.	SATR Series						
	RT-1001	RT-1003	RT-1004	RT-1006	RT-1007	RT-1009	RT-1011
1/2"	40	40	40	40	40	40	40
3/4"	30	40	40	40	40	40	40
1"	15	40	40	20	30	40	40

INSTALLATIONS:

Alternating:

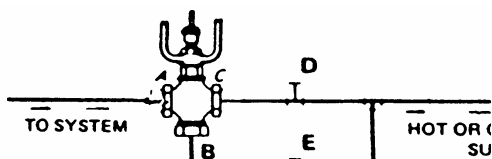


Figure 1. Showing how connections would be made where it is desired to shift from heating service to cooling service by manually opening and closing proper valve in the supply line.

Blending:

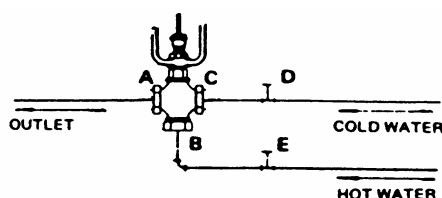


Figure 2. Illustrating a simple means for blending hot and cold water where a rough mixing is suitable.

Diverting:

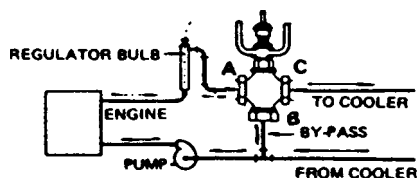
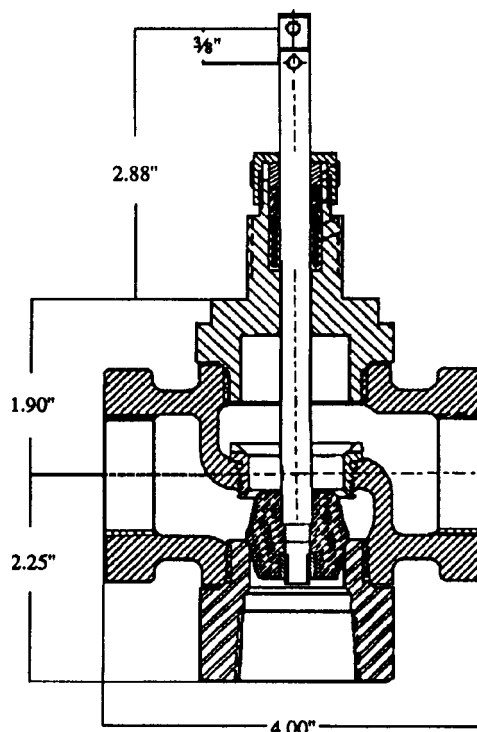


Figure 3. The drawing above illustrates the most widely used method of cooling water control for internal combustion engines.

DIMENSIONS:



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