



INDUSTRIAL PRODUCTS DIVISION

**Valve Body Assembly
 Style "WD"**

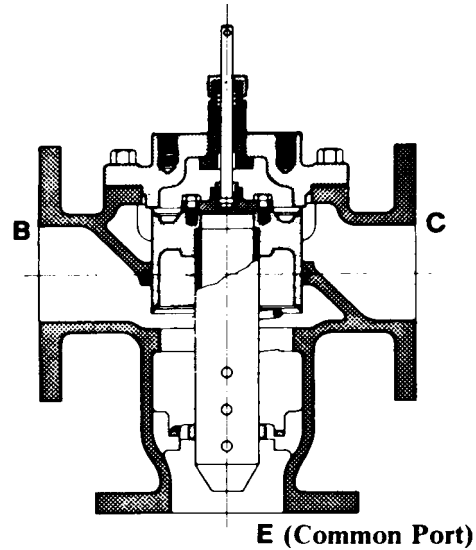
FEATURES

Balanced Sleeve Three-Way Type
 Sizes 2" thru 6"

GENERAL DESCRIPTION

This three-way valve has a balanced sleeve type poppet and is suitable where it is desired to open one line and close another by the operation of the actuator. This valve can be used for water, oil, calcium chloride brine or other liquid service.

When controlling circulation of cooling water or lubricating oil for an internal combustion engine, this valve is employed to bypass part of the cooling water or oil around the cooling system or heat exchanger.



E (Common Port)
 With stem up, B port is open
 With stem down, C port is open

SPECIFICATIONS

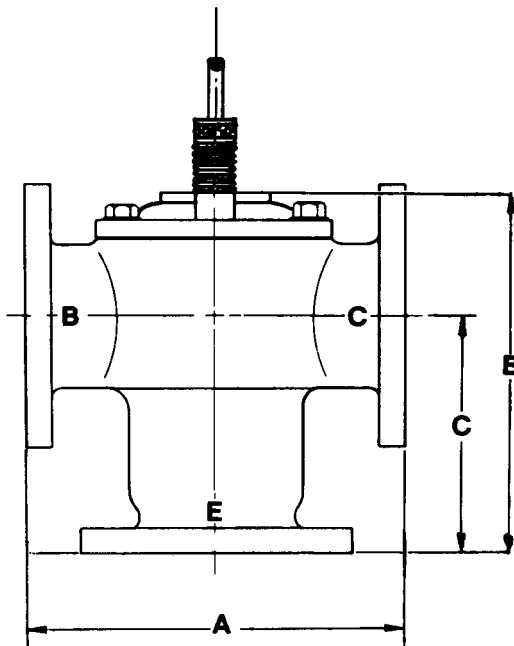
- End Connections Brass 150 lb. ANSI flanges
- Action 3-way
- Flow Characteristic Quick-opening
- Stem Connection Quick-disconnect type
- Body Material Brass ASTM B62
- Trim Material:
 - Stem 316 stainless steel
 - Plug Brass ASTM B16
 - Poppet Brass ASTM B62
 - Pipe Brass ASTM B43
 - Seat Integral seats brass ASTM B62
- Maximum Pressure Drop 2" - 3", 40 psi.
 4" - 6", 25 psi.
- Temperature Limit 200°F (93°C)

- Stem Packing Rubber U-cup
- Available Actuators VC-230A, VC-231A

Valve Size		2	2 1/2	3	4	5	6
Cv	E - B	64	81	115	220	344	506
	E - C	64	88	106	237	385	563
Valve Travel, In. (mm)		.281 (7.13)	.416 (10.5)	.594 (15.08)	.626 (15.97)	.721 (18.31)	1.031 (26.19)



DIMENSIONS



Valve Size, In.	2	2 1/2	3	4	5	6
Dim. A, In. (mm)	8-5/8 (219)	10 (254)	10-1/2 (267)	15-7/8 (403)	19-1/4 (489)	23-1/2 (597)
Dim B, In. (mm)	9 (229)	10-1/8 (257)	10-3/8 (264)	1-13/16 (300)	17-3/16 (437)	19 (483)
Dim. C, In. (mm)	5-3/16 (132)	6-1/2 (165)	6-3/4 (171)	8-9/16 (217)	11-5/8 (295)	13-7/16 (341)

INSTALLATIONS

Mixing

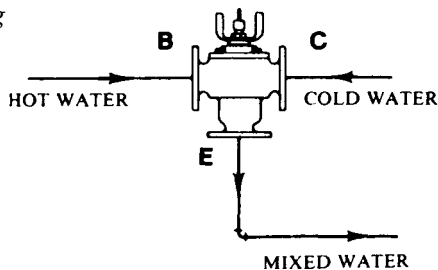


Figure 1: Illustrating a simple means for mixing hot and cold water where a rough mixing is suitable.

Diverting

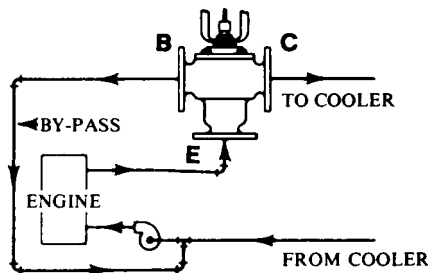


Figure 2: This drawing illustrates the most widely used method of cooling water control for internal combustion engines.

Diverting

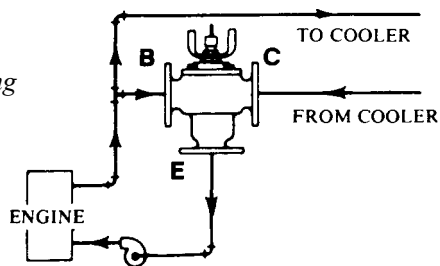


Figure 3: This drawing shows a method of controlling the cooling of engine lubricating oil.

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