

Water Valve 1/2 and 5/8 in. for Three and Four-Pipe Systems

Description

The V-4440 Water Valve 1/2 and 5/8 in. for three and four-pipe systems accurately regulates hot and cold water in small room air conditioning three or four-pipe systems. The two-pipe supply system provides heating and cooling water to the room units continuously.

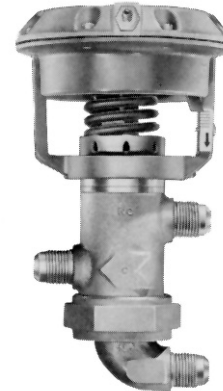
Features

- supplied with a factory installed V-3000 exposed pneumatic actuator which has a synthetic rubber diaphragm in a die cast aluminum housing
- molded diaphragm provides a constant diaphragm effective area throughout the stroke
- complete actuator assembly can be removed without disturbing the remainder of the valve assembly
- completely enclosed actuator (V-3000-8003 can be ordered separately for field mounting)

- valve has two inlets (upper and lower) and one outlet (center)
- lower inlet port is normally open (N.O.) and the upper inlet port is normally closed (N.C.)
- V-4440 is both a switching valve and a control valve
- contains two modulating plugs with replaceable composition discs that are designed for both hot and cold water service
- bottom service connection is furnished with a 90° elbow which can be rotated to any position

Repair Information

If the V-4440 Water Valve fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.



V-4440 Water Valve

Selection Charts

Code Number ¹	Size (in.)	Max Cv (kv) N.C. Seat ²	Body Style	Cv N.O. Seat ²
Supply Valve for Three and Four-Pipe Systems (4 to 12 psig Spring)				
V-4440-1001	1/2	1.4 (1.2)	Three-Way 90° Elbow	1.4
V-4440-1002		2.4 (2.0)		2.4
V-4440-1003	5/8	4.1 (3.5)		4.7
V-4440-1004	1/2	1.4 (1.2)	Three-Way Straight	1.4
V-4440-1005		2.4 (2.0)		2.4
Return Valve for 4-Pipe System (6 to 9 psig Spring)				
V-4440-1008	1/2	2.4 (2.0)	Three-Way 90° Elbow	2.4
V-4440-1009	5/8	4.1 (3.5)		4.7
V-4440-1011	1/2	2.4 (2.0)	Three-Way Straight	2.4

1. With V-3000-1 Actuator Assembled and Seating Pressure 0 to 40 psig.

2. N.O. = Normally Open, N.C. = Normally Closed

Technical Specifications

V-4440 Water Valve 1/2 and 5/8 in. for Three and Four-Pipe Systems	
Style	Cast Bronze for 1/2 and 5/8 in. O.D. Tubing, S.A.E. 45° Flared Connections, 250 psig Body Rating
Valve Size	1/2 and 5/8 in.
Maximum Cv	1.4, 2.4, 4.1 (Supply Valve) 2.4, 4.1 (Return Valve)
Spring Range (Nominal)	4 to 12 psig (Supply Valve) and 6 to 9 psig (Return Valve)
Service	Hot and Cold Water
Seating Pressure	0 to 40 psig
Valve Stroke Length (Travel)	11/16 in.

Accessories for V-4440 Water Valve

Code Number	Description
V-3000-10	Valve Position Indicator
V-9502-15	Pneumatic Positioner
V-3000-8003	Enclosed V-3000 Actuator for Field Mounting