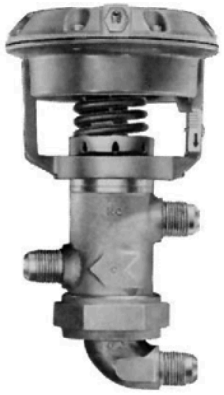
V-4440 Series Water Valve 1/2 and 5/8 in. for Three- and Four-Pipe Systems Catalog Page

2019-10-25 LIT-1924125

Description

Figure 1: V-4440 Water Valve



The V-4440 Series 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.

Refer to the *V-4440 Water Valve for Three- and Four-Pipe Systems, Cast Brass 1/2 and5/8 in. S.A.E. 45° Flared Connections Product Bulletin (LIT-977185)* for important product application information.

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 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 that can be rotated to any position

Repair information

If the V-4440 Series Water Valve fails to operate within its specifications, replace the valve body, actuator, or entire assembly. For replacement parts, contact the nearest Johnson Controls® representative.

Selection chart

Table 1: Selection chart

Code number[1]	Size, in.	Max. Cv (kv) N.C. Seat [2]	Body style	Cv N.O. seat
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 four-pipe system (6 to 9 psig spring)				

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Table 1: Selection chart

Code number[1]	Size, in.	Max. Cv (kv) N.C. Seat [2]	Body style	Cv N.O. seat
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

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Accessories

Table 2: Accessories

Code number	Description
V-3000-10	Valve position indicator
V-9502-15	Pneumatic positioner
V-3000-8003	Enclosed V-3000 actuator for field mounting

Technical specifications

Table 3: Technical specifications

V-4440 Series 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 in. and 5/8 in.
Maximum Cv	1.4, 2.4, 4.1 (supply valve) 2.4, 4.1 (return valve)
Spring range (nominal)	4 psig to 12 psig (supply valve) and 6 psig to 9 psig (return valve)
Service	Hot and cold water
Seating pressure	0 psig to 40 psig
Valve stroke length (travel)	11/16 in.

WARNING

This product is made of copper alloy, which contains lead. The product is therefore not to be used on drinking water.

WARNING

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

WARNING

WARNING: BRASS MAY CONTAIN LEAD

To fulfill our obligations towards Article 33, in accordance to the European REACH Regulation No 1907/2006 EC, we hereby inform you that this article contains the following Substances of Very High Concern mentioned on the Candidate list: Lead

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Single point of contact

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