



## Description

V48 Series valves are designed specifically for condensing units that cool either atmospheric or forced draft cooling towers.

Refer to the *V48 Series 3-Way Water Regulating Valves for Cooling Tower Systems Product Bulletin*

## Selection chart

**Note:** Use these valves with noncorrosive refrigerants.

**Table 1: V48 Series selection chart**

Product code	Pipe size, in.	Range opening point of normally closed side, psi (kPa)	Pressure element style	Water supply pressure, psig (kPa)	Inlet and outlet ports	Max bellows overpressure, psig (kPa)	Seat repair kit	Replacement sensing element
V48AB-2C	1/2	145 to 190 (1,000 to 1,310)	30 in. capillary with 1/4 in. flare nut, Style 45 <sup>1</sup>	150 (1,034)	Threaded	320 (2,206)	STT15A- 605R	SEP91A-602R SEC99AA-36C <sup>2</sup>
V48AC-2C	3/4						STT16A- 604R	SEP91A-601R SEC99AA-36C <sup>2</sup>
V48AD-2C	1						STT17A- 616R	SEP91A-603R
V48AE-2C	1 1/4						STT17A- 617R	SEC99AA-36C <sup>2</sup>
V48AF-2C	1 1/2		1/4 in. external flare fitting, Style 5				STT17A- 604R	SEP81A-601R
V48EK-2C	3/4	145 to 190 (1,000 to 1,310)	30 in. capillary with 1/4 in. flare nut, Style 46	150 (1,034)	Union	370 (2,551)	STT16A- 604R	SEP127A-600R
V48AL-2C	1					320 (2,206)	STT17A- 616R	SEP107A-602R

<sup>1</sup> Standard capillary length on Style 45 elements is 30 in.

(LIT-121705) for important product application information.

## Applications

To provide the most economical and efficient use of the tower, you can use V48 Series valves on single or multiple condenser hook-ups to the tower.

## Repair information

If the V48 Series Three-Way Water Regulating Valve fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.

### WARNING

#### Risk

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

- 2 Replacement element supplied with 1/4 in. external SAE connector. Order SEC99AA capillary kit with two flare nuts separately if you require it. Use only on specified valves.

## V48 Series Three-Way Water Regulating Valve technical specifications

**Table 2: V48 Series factory settings**

Refrigerant (R)	Factory settings, psig (kPa)	
	Opening pressure Port 1 to Port 2	Closing pressure Port 1 to Port 3
Low pressure; for example, R134a	95 (655)	120 (896)
Medium pressure; for example, R-22, R404A	165 (1,138)	215 (1,482)

### Product warranty

This product is covered by a limited warranty, details of which can be found at [www.johnsoncontrols.com/buildingswarranty](http://www.johnsoncontrols.com/buildingswarranty).

### Single point of contact

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