



V48 Series Three-Way Water Regulating Valve

Description

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

Refer to the *V48 Series 3-Way Water Regulating Valves for Cooling Tower Systems Product Bulletin (LIT-121705)* for important product application information.

Applications

V48 Series valves are used on single or multiple condenser hook-ups to the tower to provide the most economical and efficient use of 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.



V48 Series Three-Way Water Regulating Valve

Selection Chart (Non-Corrosive Refrigerants)

Product Code Number	Pipe Size, In.	Range Opening Point of Normally Closed Side psi (kPa)	Pressure Element Style	Water Supply Pressure	Inlet and Outlet Ports	Max Bellows Overpressure	Seat Repair Kit	Replacement Sensing Element
V48AB-1C	1/2	85 to 110 (586 to 758)	30 in. capillary with 1/4 in. flare nut (Style 45) ¹	150 psig (1,034 kPa)	Threaded	230 psig (1,586 kPa)	STT15A-605R	SEP91A-602R SEC99AA-36C ²
V48AB-2C	1/2	145 to 190 (1,000 to 1,310)				320 psig (2,206 kPa)		
V48AC-1C	3/4	85 to 110 (586 to 758)				230 psig (1,586 kPa)	STT16A-604R	SEP91A-601R SEC99AA-36C ²
V48AC-2C	3/4	145 to 190 (1,000 to 1,310)				320 psig (2,206 kPa)		
V48AD-1C	1	85 to 110 (586 to 758)			230 psig (1,586 kPa)	STT17A-616R	SEP91A-603R SEC99AA-36C ²	
V48AD-2C	1	145 to 190 (1,000 to 1,310)			320 psig (2,206 kPa)			
V48AE-1C	1-1/4	85 to 110 (586 to 758)			230 psig (1,586 kPa)	STT17A-617R	SEP81A-602R	
V48AE-2C	1-1/4	145 to 190 (1,000 to 1,310)						320 psig (2,206 kPa)
V48AF-1C	1-1/2	85 to 110 (586 to 758)	1/4 in. External Flare Fitting (Style 5)	Union	230 psig (1,586 kPa)	STT17A-604R	SEP81A-601R	
V48AF-2C	1-1/2	145 to 190 (1,000 to 1,310)			320 psig (2,206 kPa)			
V48AJ-2C	1/2		30 in. capillary with 1/4 in. flare nut (Style 45)		320 psig (2,206 kPa)	STT15A-605R	SEP77A-605R	
V48EK-2C	3/4		30 in. capillary with 1/4 in. flare nut (Style 46)		370 psig (2,551 kPa)	STT16A-604R	SEP127A-600R	
V48AL-2C	1				320 psig (2,206 kPa)	STT17A-616R	SEP107A-602R	
V48AM-2C	1-1/4					STT17A-617R		

1. Standard capillary length on Style 45 elements is 30 inches

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

Technical Specifications

V48 Series Factory Settings

Refrigerant (R)	Factory Settings psig (kPa)	
	Opening Press. Port 1 to Port 2	Closing Press. Port 1 to Port 3
Low Pressure (R-12, R134a, etc.)	95 (655)	120 (896)
Medium Pressure (R-22, R404A, etc.)	165 (1,138)	215 (1,482)

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2015 Johnson Controls, Inc.