



V46N Series Reverse Acting Valve

Description

The V46N Series are reverse acting pressure actuated modulating valves used on either open or closed loop coolant systems. Reverse acting valves open on a refrigerant pressure decrease. They are generally used in parallel with a direct acting valve for heat pump applications or for bypass operation.

Refer to the *V46 Pressure-Actuated Water-Regulating Product Bulletin (LIT-125687)* for important product application information.

Applications

- bypass systems
- water cooled heat pumps in parallel with direct acting valve

Repair Information

If the V46N Series Reverse Acting Valve fails to operate within its specifications, replace the unit. For a replacement valve, contact the nearest Johnson Controls® representative.



V46 Series Reverse Acting Valve

Selection Chart

Product Code Number ¹	Pipe Size In.	Inlet and Outlet	Opening Point Range psig (kPa)	Pressure Element Style	Seat Repair Kit	Replacement Power Elements
Commercial Type – Non-Corrosive Refrigerants (R)						
V46NA-1C	3/8 NPT	Threaded	90 to 280 (621 to 1,931)	30 in. capillary with 1/4 in. flare nut	STT14A-600R	SEP91A-600R & SEC99AA-36C ²
V46NA-4C			40 to 100 ³ (276 to 690)			
V46NB-1C	1/2 NPT		90 to 280 (621 to 1,931)	+ Schrader Valve depressor (Style 45)	STT15A-602R	SEP91A-602R & SEC99AA-36C ²
V46NB-2C			40 to 100 ³ (276 to 690)			
V46NC-1C	3/4 NPT		90 to 280 (621 to 1,931)		STT16A-601R	SEP91A-601R & SEC99AA-36C ²
V46NC-2C			40 to 100 ³ (276 to 690)			
V46ND-1C	1 NPT		90 to 280 (621 to 1,931)		STT17A-609R	SEP91A-603R & SEC99AA-36C ²
V46ND-2C			40 to 100 ³ (276 to 690)			
V46NE-1C	1-1/4 NPT	90 to 280 (621 to 1,931)	STT17A-610R			
V46NE-2C		40 to 100 ³ (276 to 690)				

1. Refer to *V46 Series Valve Sizing Information — 90% Open Method (LIT-1927400)*, and then specify the code number from this chart.
2. Maximum bellows overpressure is 320 psig (2,206 kPa). Replacement element provided with 1/4 in. external SAE connector. Order SEC37A capillary kit with two flare nuts, separately if needed. Use only on valves specified.
3. For heat pump application.