

V46N Series Reverse Acting Valve Catalog Page

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.

WARNING

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



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 + Schrader Valve depressor (Style 45) | STT14A-600R | SEP91A-600R & SEC99AA-36C ² |
| V46NA-4C | 1/2 NPT | | 40 to 100 ³ (276 to 690) | | STT15A-602R | SEP91A-602R & SEC99AA-36C ² |
| V46NB-1C | | | 90 to 280 (621 to 1,931) | | | |
| V46NB-2C | 3/4 NPT | | 40 to 100 ³ (276 to 690) | | STT16A-601R | SEP91A-601R & SEC99AA-36C ² |
| V46NC-1C | | | 90 to 280 (621 to 1,931) | | STT17A-609R | SEP91A-603R & SEC99AA-36C ² |
| V46NC-2C | 40 to 100 ³ (276 to 690) | | | | | |
| V46ND-1C | 1 NPT | | 90 to 280 (621 to 1,931) | | | |
| 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 Catalog Page*, 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.