Installation guide

Electric 3-way valve

Type CTR 20



| Main application: Heat reclaim | Refrigerant: R744 for other refrigerants contact Danfoss | Ambient temperature: Min40 °C / -40 °F Max. 60 °C / 140 °F | Fluid temperature: Min. 0°C/32°F Max. 150°C/302°F |
|-----------------------------------|--|--|---|
| Stepper motor type: | | Max working pressure: | Total full steps: |
| Bipolar | | 140 Bar / 2030 psig | 6600 |
| Phase Current: | | Coil resistance: | Step rate: |
| 100 mA RMS / 141 mA Peak | | 52 Ohm ±10% (25 °C) | 75 stp./sec. |
| | | | |



Note!

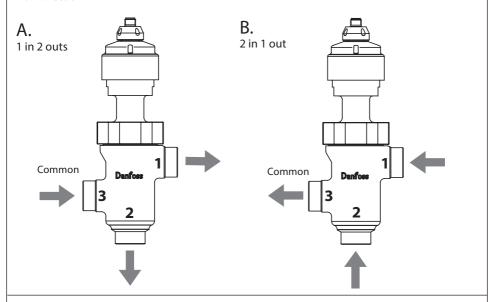
Valves are delivered in approximately half opened position and is ready for brazing.



Warning!

Do not connect directly to AC / DC power source. Connect valve to appropriate controller/driver only. Do not operate valve while assembling or disassembling.

Flow direction



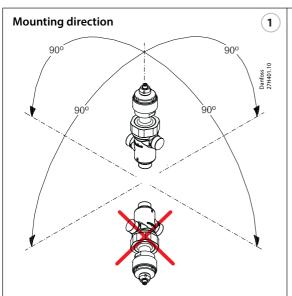


For more information on the product, please scan the QR code.





(3b)

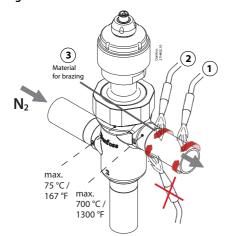




• Do not disassemble the valve before brazing or welding.

 the valve must be in middle position by brazing and welding (as it is delivered).

Brazing



Recommendation: Solder nozzle 4 - 6~mm N (5/32 in - 15/64 in) Materials used for brazing:

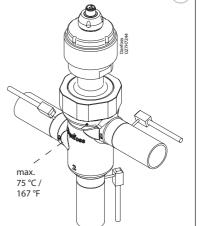
- Flus: Metalli tenacity No. 5 Powder or Braze Tec special h paste.
- Filler: Silver-Flo 55 (BS:AG 14/ DIN L-Ag55 Sn) or Silver-Flo 56 (AWS B Ag-7).



Filler metals containing Phosphor i.e. BS: CP 1/ DIN L-Ag 15P or BS: CP 3/ DIN L-Ag P7 must not be used.

Welding

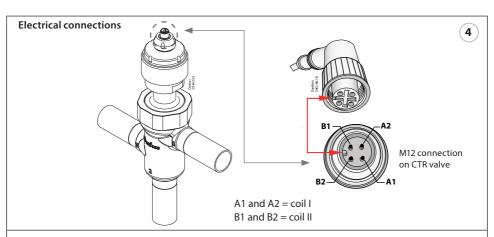
3a



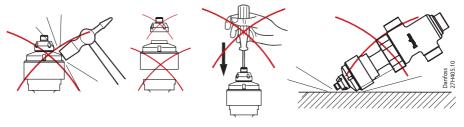
Recommendation for TIG welding

- · Power approximately 60A.
- · Use Shield gas charge Argon.
- Material for welding approximately 2 mm thick stainless steel alloy.









| For your own notes |
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Service only



