Installation guide

Electric 3-way valve

Type CTR 20

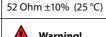
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Main application: Heat reclaim	Refrigerant: R744 for other refrigerants contact Danfoss	Ambient temperature: Min40 °C / -40 °F Max. 60 °C / 140 °F	Fluid temperature: Min. 0°C/32°F Max. 150°C/302°F
Stepper motor type: Bipolar		Max working pressure: 140 Bar / 2030 psig	Total full steps: 6600

hase Current:

Note!

00 mA RMS / 141 mA Peak



Warning!

Coil resistance:

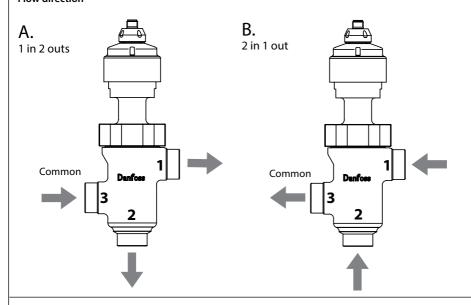
Valves are delivered in approximately half opened position and is ready for brazing.

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

Step rate:

75 stp./sec.

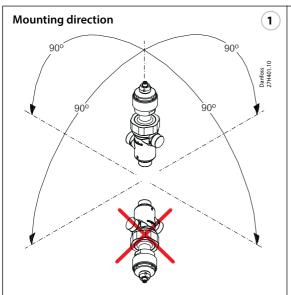
Flow direction





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

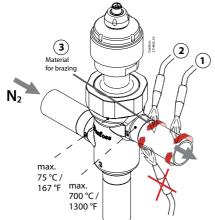






- Do not disassemble the valve before brazing or welding.
- the valve must be in middle position by brazing and welding (as it is delivered).





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).

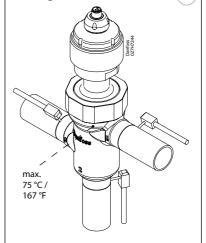


Filler metals containing Phosphor i.e. BS: CP 1/ DIN L-Ag 15P or BS: CP 3/ DIN L-Ag P7 must not be used.

Welding

3a)

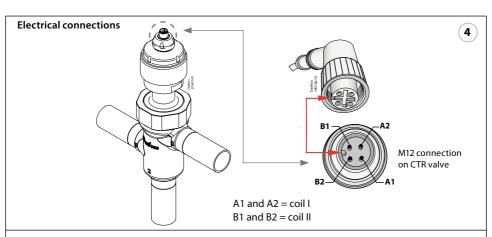




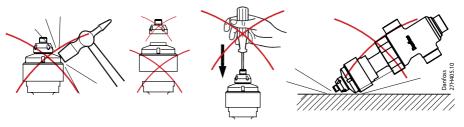
Recommendation for TIG welding

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









For your own notes





