Eluid temperature

Installation guide

Electric 3-way valve

Refrigerant: R744 for other refrigerants contact Danfoss

Type CTR 20

027R997.	Main application: Heat reclaim
	Stepper motor type Bipolar
	Phase Current:

	Fiulu	temperature.
Min40 °C / -40 °F	Min.	0 °C / 32 °F
Max. 60 °C / 140 °F	Max.	150 °C / 302 °F

Max working pressure: Total full steps: 6600

Coil resistance: Step rate: 75 stp./sec.



100 mA RMS

Note!

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

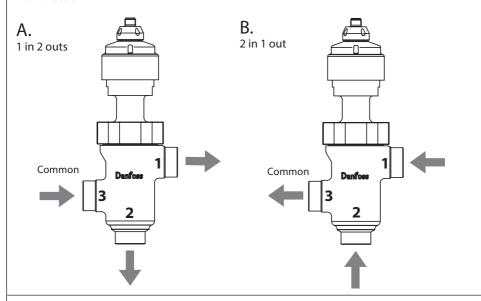


Warning!

Ambient temperature

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



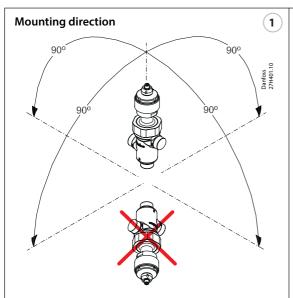


For more information on the product, please scan the QR code.





(3b)

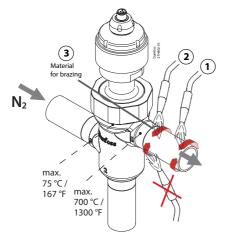




• Do not disassemble the valve before brazing or welding.

 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:

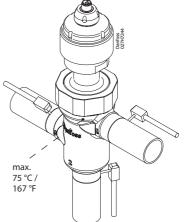
- Flus: Metalli tenacity No. 5 Powder or Braze Tec special h paste.
- Filler: Silver-Flo 55 (BS:AG 14/ DIN L-Ag55 Sn) or Silver-Flo 56 (AWS B Ag-7).



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

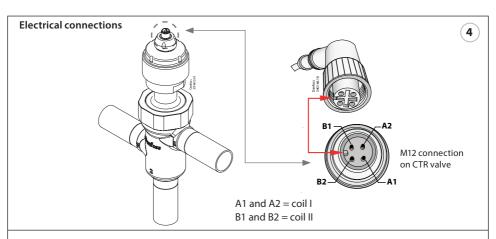
3a



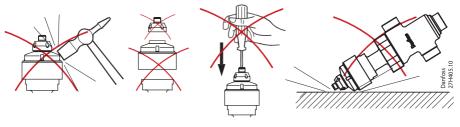
Recommendation for TIG welding

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









For your own notes



Service only

