

Installation guide

Electric regulating valves

Type CCMT 2 – CCMT 8 / CCMT 16 – CCMT 42

027R9803

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Refrigerant: R744 For other refrigerants, contact Danfoss.	Ambient temperature: Min. -40 °C / -40 °F Max. 60 °C / 140 °F	Fluid temperature: Min. -40 °C / -40 °F Max. 60 °C / 140 °F
Stepper motor type: Bipolar	Max working pressure: 140 Bar / 2030 psig	Total full steps CCMT 2 - CCMT 8 : 1100 CCMT 16 : 800 CCMT 24 : 1400 CCMT 30 : 2300 CCMT 42 : 2200
Phase Current: CCMT 2 – CCMT 8: 100 mA RMS CCMT 16 – CCMT 42: 300 mA RMS	Coil resistance: CCMT 2 – CCMT 8: 52 Ohm CCMT 16 – CCMT 42: 29 Ohm	



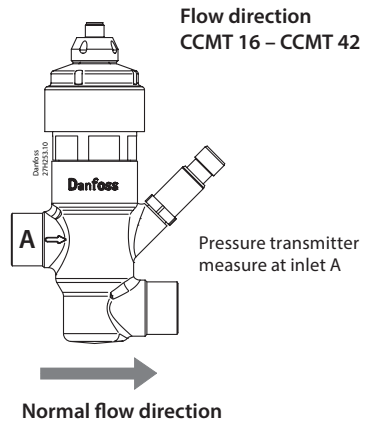
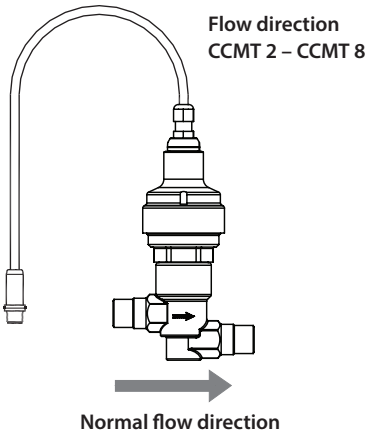
Note!

- CCMT valves are delivered in open position, ready for brazing.
- For CCMT 2 - CCMT 8, Filter with a maximum mesh of 100 µm recommended to install on the inlet line that can resist articles size above 100 µm.

CCMT 16 - CCMT 42.
Pressure transmitter, type MBS 8250
 Connection : round packard metripack.
 Supply voltage : 5 V DC ± 0.5 V
 Output signal : 10 – 90 % of supply voltage.
 Pressure range : 1 – 159 bar gauge / 14.5 – 2306 psi



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.

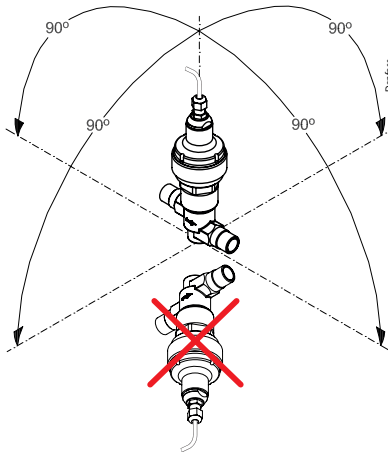


For more language options and more information on the valve refer to the website.

ccmt.danfoss.com

Mounting direction CCMT 2 - CCMT 42

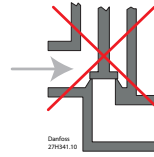
1



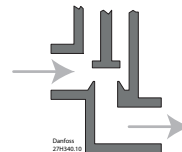
Warning!

2

- Do not disassemble the valve before brazing or welding.
- Valve must be open during brazing and welding.



Fully closed

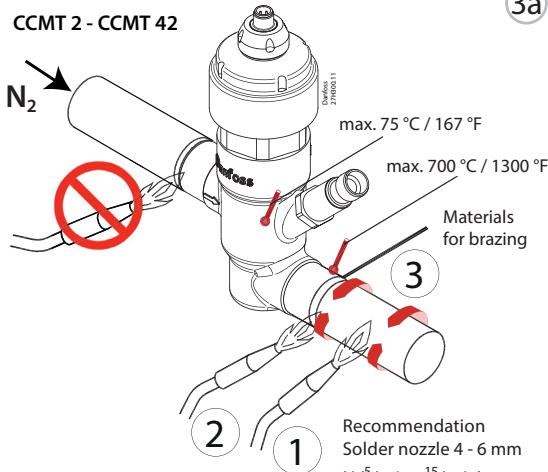


Open

Brazing

CCMT 2 - CCMT 42

3a



For CCMT 2 - CCMT 42

Materials used for brazing:

- Flux: 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).



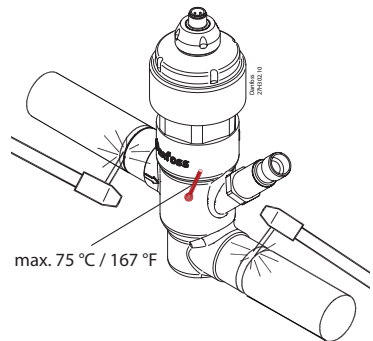
Warning!

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

CCMT 2 - CCMT 42

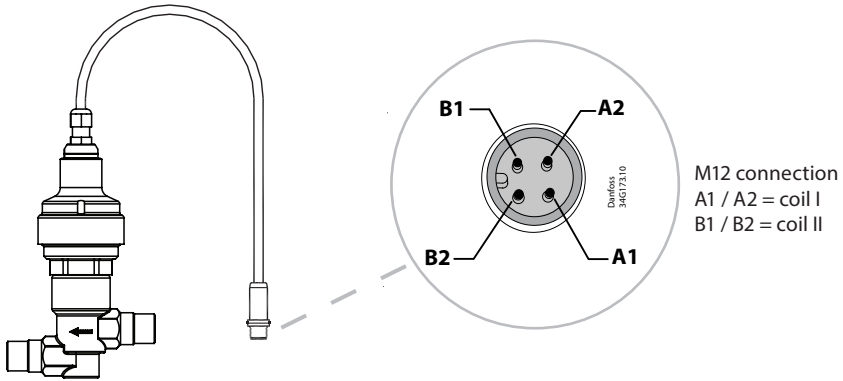
3b



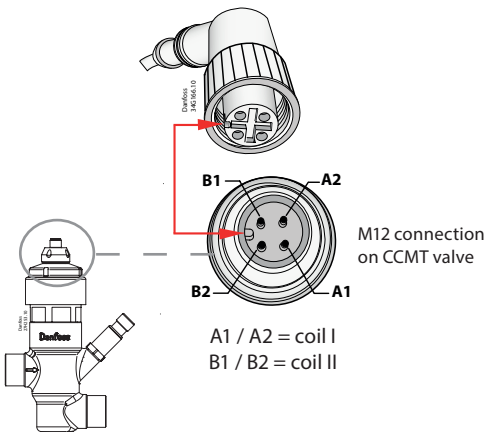
Recommendation for TIG welding

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

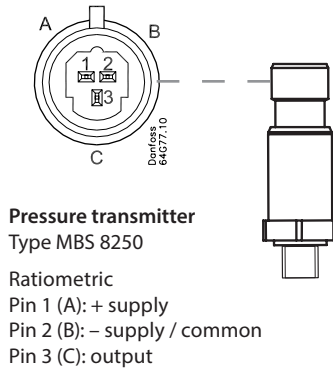
Electrical connections for CCMT 2 - CCMT 8



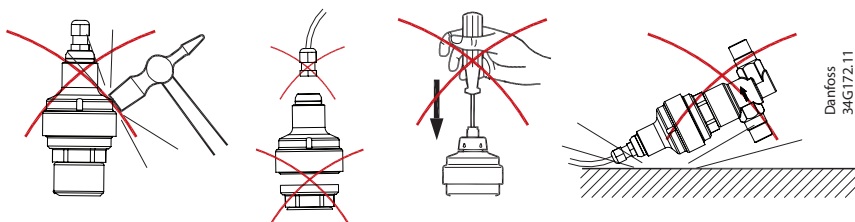
Electrical connections for CCMT 16 - CCMT 42



Pressure transmitter connections CCMT 16 - CCMT 42



 **Warning**



Service only

CCMT 2 - CCMT 8

1 Compressed air to remove dirt

2 Replace O-ring
Kit code no: 027H7230

3 Max. torque:
130 Nm/ 95.9 ft-lbf

CCMT 16 - CCMT 42

1 Compressed air blown from inside filter to remove dirt

2 Replace O-ring
Kit code no: 027H7230

3

4

5 Max. torque:
130 Nm/ 95.9 ft-lbf

1

2 Replace O-ring
Kit code no: 027H7230

3 Max. torque: 30 – 35 Nm