Electric regulating valves
Type CCMT 2 – CCMT 8 / CCMT 16 – CCMT 42

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

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

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 resists articles size above 100 μm.

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.

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For more language options and more information on the valve refer to the website.
ccmt.danfoss.com
For CCMT 2 – CCMT 42

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).

**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.

Recommended Solder nozzle 4 - 6 mm
N (5/32 in - 15/64 in)

Maximum temperatures:
- 75 °C / 167 °F
- 700 °C / 1300 °F

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

Mounting direction CCMT 2 - CCMT 42

Welding CCMT 2 - CCMT 42

**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

Type MBS 8250

Ratiometric
Pin 1 (A): + supply
Pin 2 (B): – supply / common
Pin 3 (C): output

Warning

A1 / A2 = coil I
B1 / B2 = coil II

M12 connection on CCMT valve

A1 / A2 = coil I
B1 / B2 = coil II

M12 connection

A1 / A2 = coil I
B1 / B2 = coil II

Danfoss

34G172.11
**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. Max. torque: 130 Nm/ 95.9 ft-lbf

1. Replace O-ring
   Kit code no: 027H7230
2. Max. torque: 30 – 35 Nm