

## Installation guide

# Electric regulating valves

## Type CCMT 3 – 8 Light

027R7256

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<b>Refrigerant:</b> R744 For other refrigerants, contact Danfoss.	<b>Ambient temperature:</b> Min. -5 °C / 23 °F Max. 50 °C / 122 °F  <b>Fluid temperature:</b> Min. -5 °C / 23 °F Max. 55 °C / 131 °F	<b>Stepper motor type:</b> Bipolar  <b>Total full steps:</b> 210 <b>Step rate:</b> 100 stp/s <b>Phase Current:</b> 350 mA RMS <b>Coil resistance:</b> 15 Ohm
<b>Max working pressure:</b> Steel Connections - 140 bar / 2030 psig Bi-metal Connections - 130 bar / 1885 psig	<b>Note!</b> <ul style="list-style-type: none"> <li>CCMT valves are delivered in open position, ready for brazing.</li> <li>Filter with a maximum mesh of 100 µm recommended to install on the inlet line that can resist particles size above 100 µm.</li> </ul>	



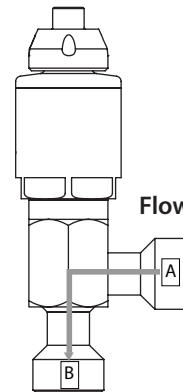
**Warning!** Do not connect directly to AC / DC power source. Connect valve to appropriate controller/driver only. Do not operate valve while assembling or disassembling.



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

ccmt.danfoss.com

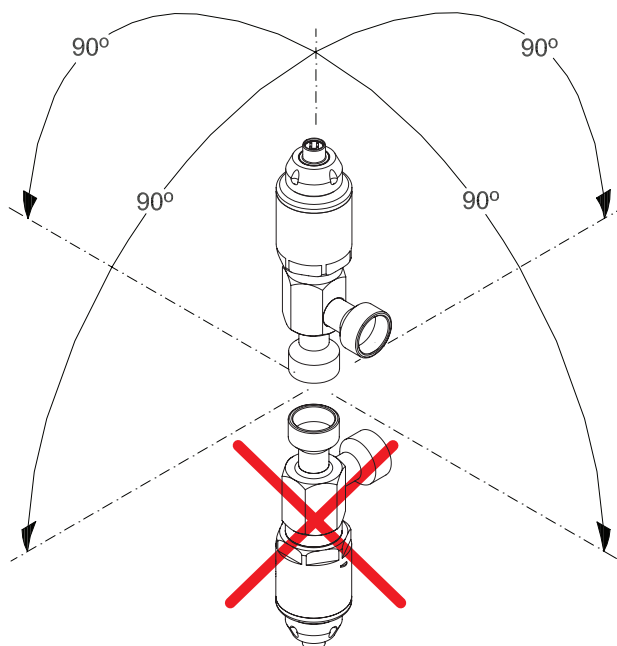
### Flow direction



Flow direction: A to B

### Mounting direction

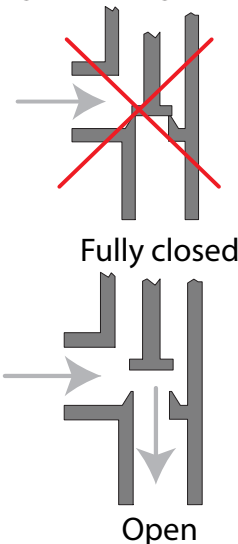
1



### Warning!

2

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

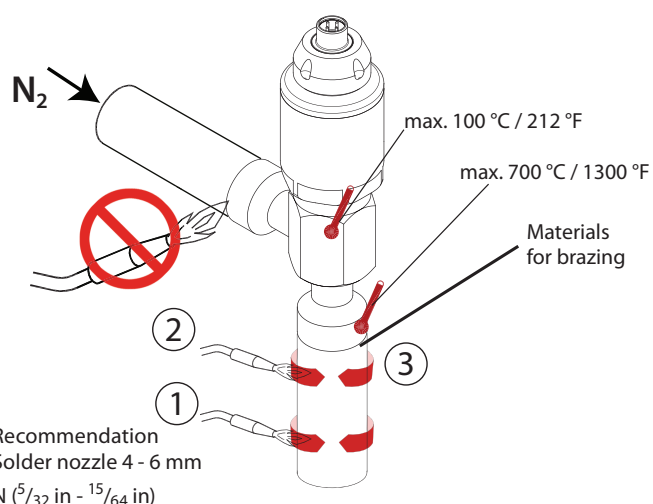


Fully closed

Open

## Brazing

3a



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).



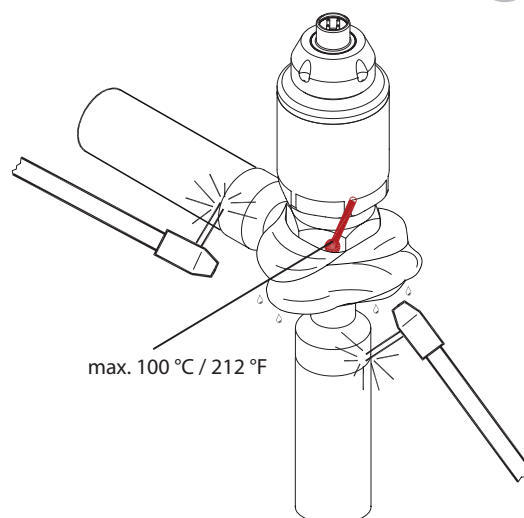
### Warning

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.

Note: N<sub>2</sub> gas from opposite side of soldering point.

## Welding

3b



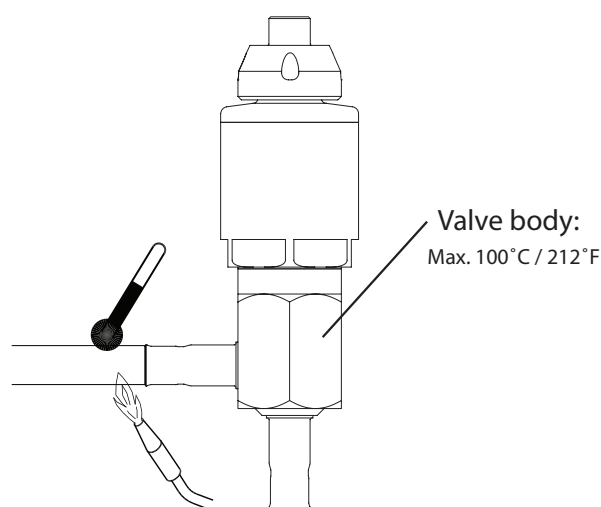
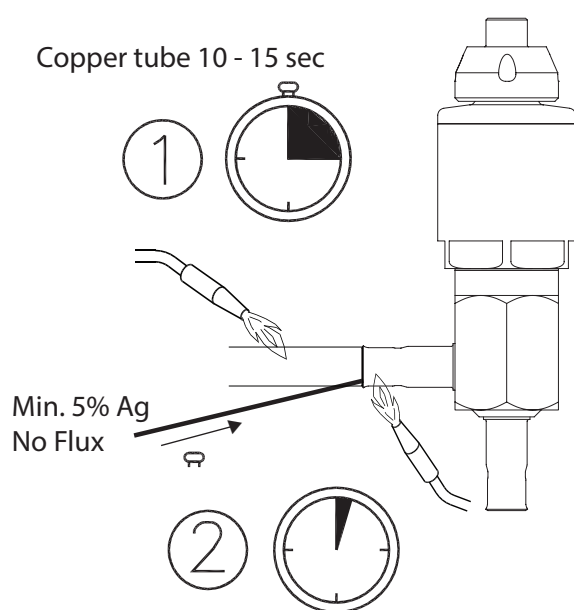
### Recommendation for TIG welding

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

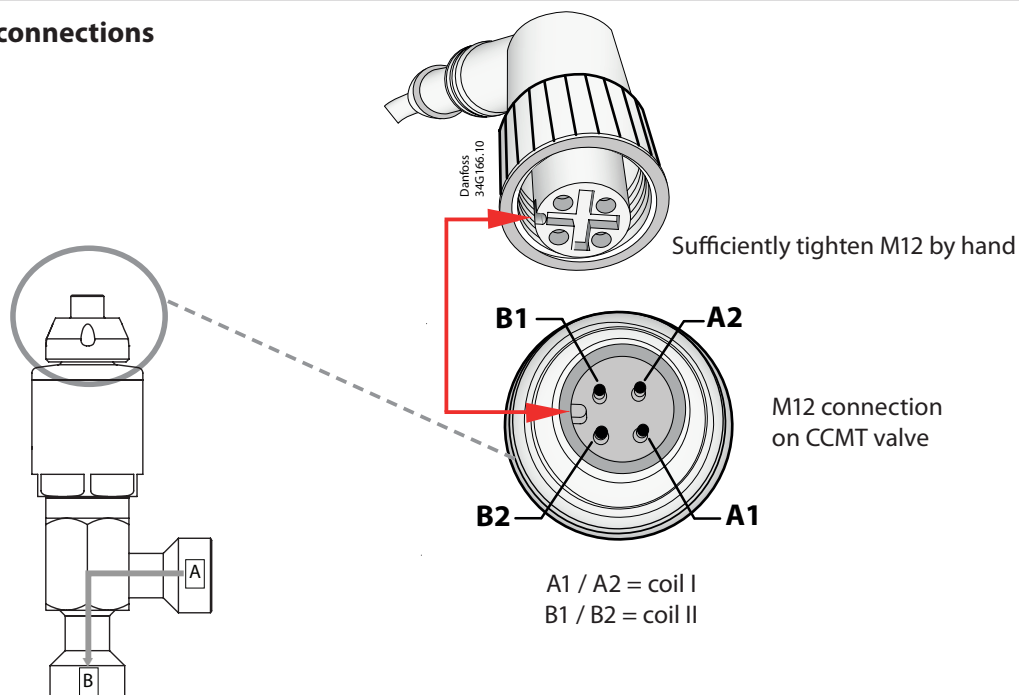
## Bi-Metal Brazing

3c

Copper tube 10 - 15 sec



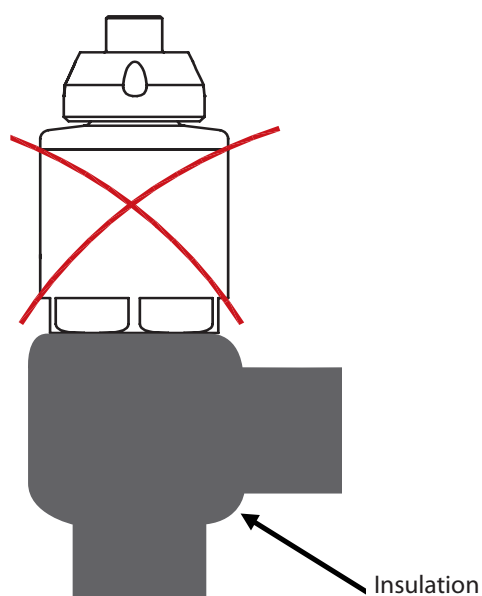
## Electrical connections



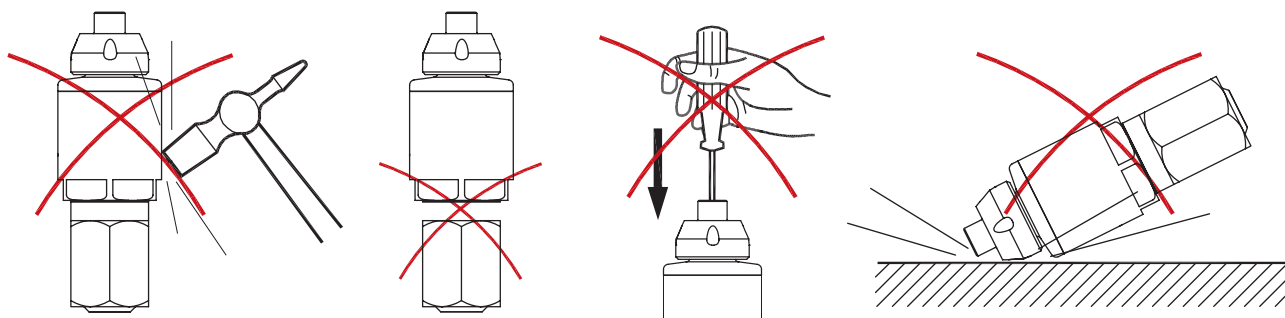
## Insulation

When used with > 20% duty cycle or Danfoss AK-XM 208C stepper driver:

- Insulation is not to be used on valve motor
- Insulation is acceptable on valve body only



## Warning



**Service only**

