



Danfoss DN 40 NovoCon M Digital Actuators User Guide

[Home](#) » [Danfoss](#) » Danfoss DN 40 NovoCon M Digital Actuators User Guide 

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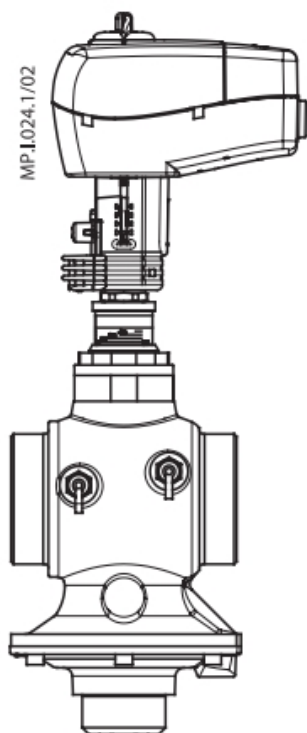


Contents

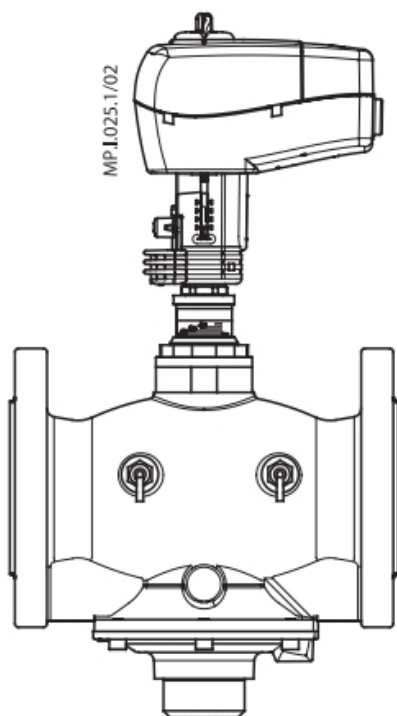
- [1 Overview](#)
- [2 Induction](#)
- [3 Optional step](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)
- [5 Related Posts](#)

Overview

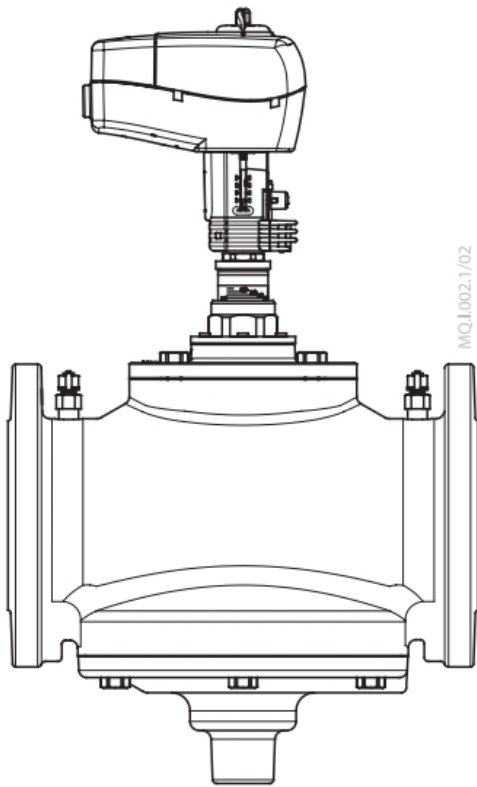
- NovoCon® M + AB-QM NovoCon (DN 40/50).



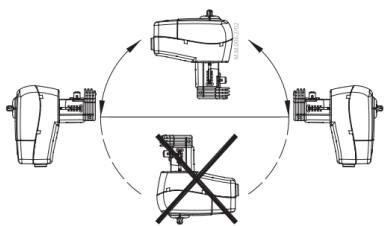
- NovoCon® M + AB-QM NovoCon (DN 50).



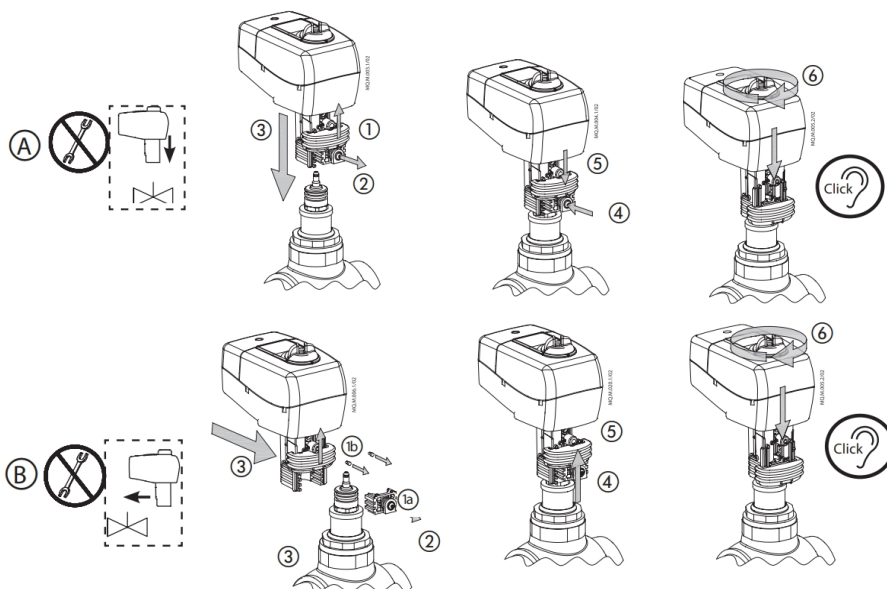
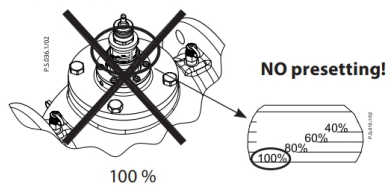
- NovoCon® M + AB-QM NovoCon (DN 65-100).

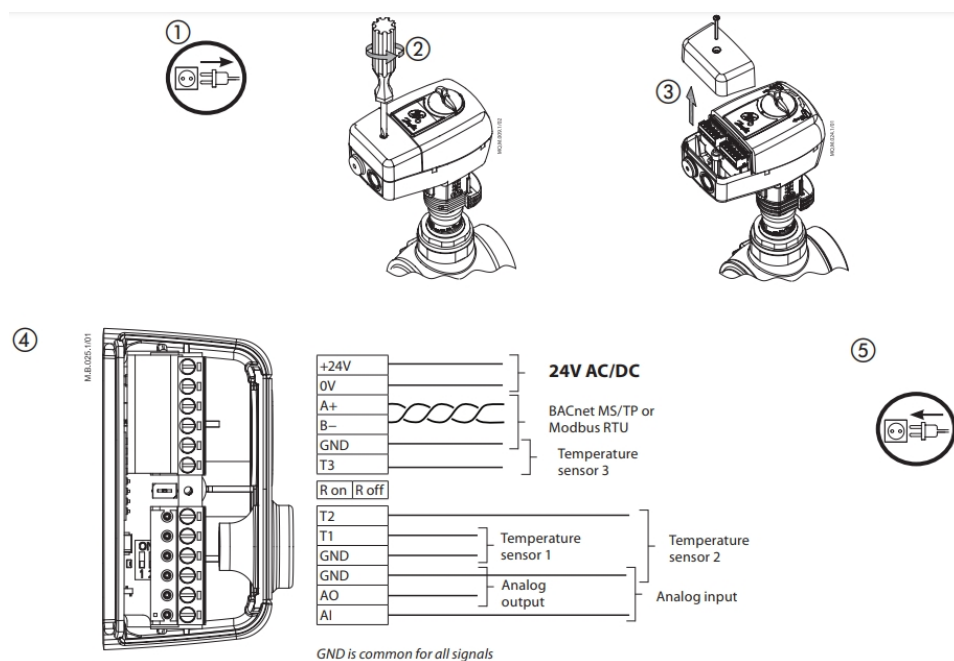


Induction



DN 40 - 100



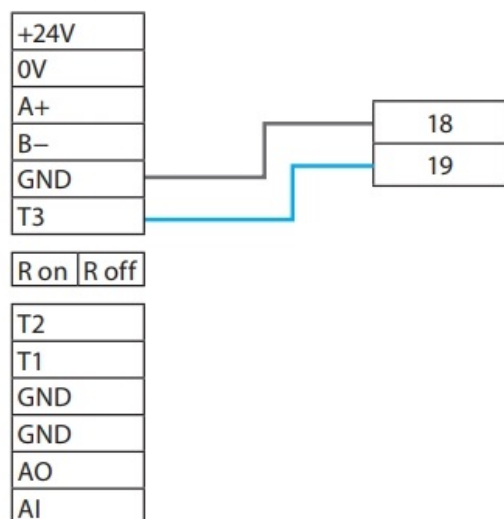


Optional step

(connecting flow sensor)

NovoCon M

SonoSensor 30



Terminal Nr	Description
18	Volume pulse (+)
19	Ground (-)

NovoCon® M

00385Z40

Actuator for AB-QM DN40-100

Control signal: BACnet MS/TP, Modbus RTU, 0-10V, 0-20mA

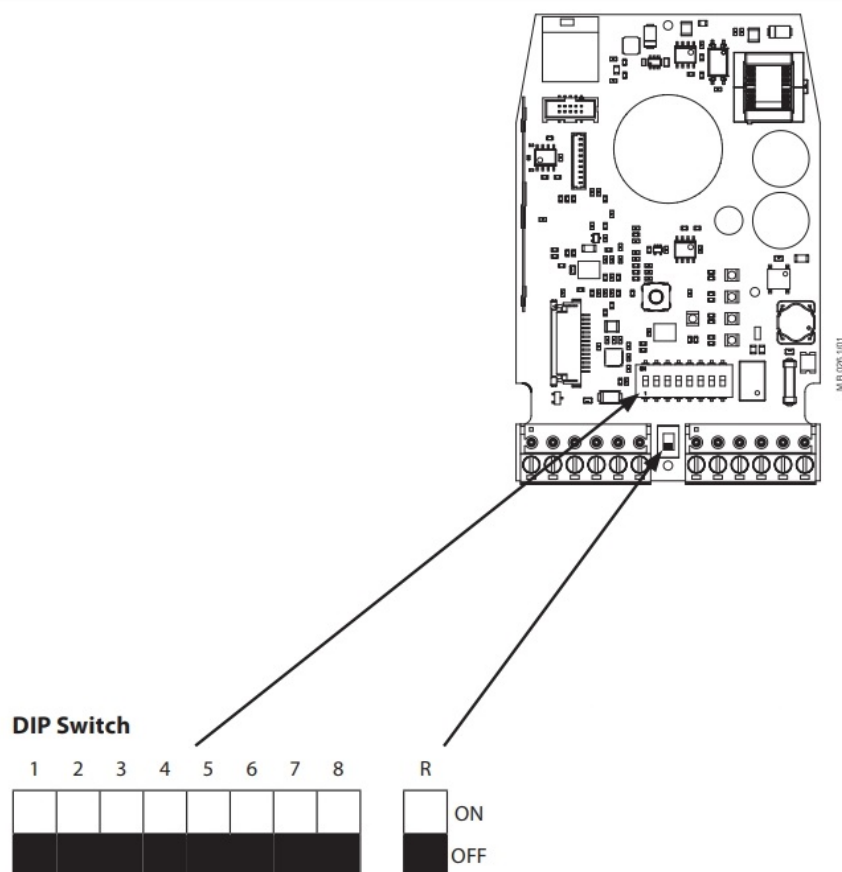
Power: 24VAC/DC, 50/60 HZ
Force: 550N. Stroke: 20 mm.
Speed: 3-24s/mm
Consumption: 3.5VA running. Standby 0.9W
IP54/40, -10T55

Serial number and QR code can be removed from the NovoCon® M label and added to installation drawing.

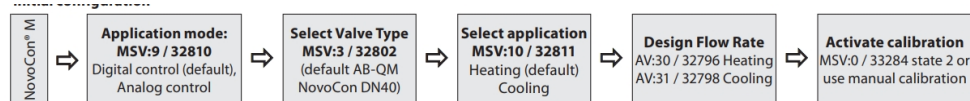


Dip switches for addressing and bus protocol selection are located under the lid of the actuator. Dip switches 1 to 7 are used to assign the MAC address manually. Default MAC address assignment method is Auto MAC addressing for BACnet MS/TP and DIP Switches for Modbus RTU. Dip switch 8 is used to select between BACnet MS/TP (OFF=Default) and Modbus RTU (ON). When the protocol is changed on DIP Switch 8, a power cycle is required.

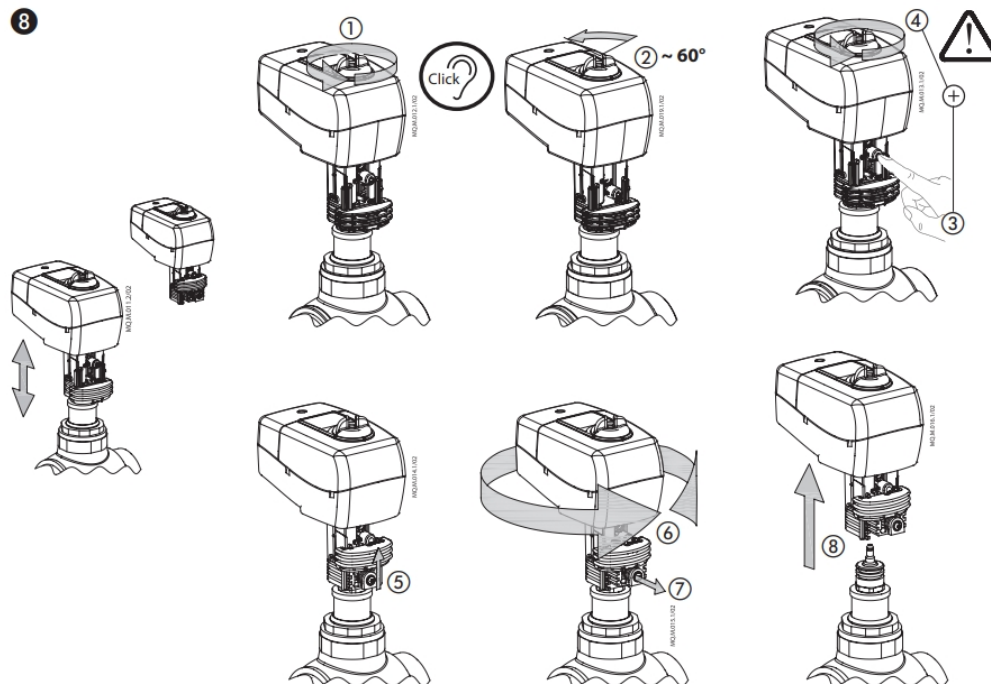
For termination of the last unit on the field bus, turn the DIP Switch R located between the connectors to ON.



Initial configuration



8



Safety Note



To avoid injury and damage to persons and devices, it is absolutely necessary these instructions are carefully read and observed prior to assembly and commissioning. Necessary assembly, start-up, and maintenance work must be performed only by qualified, trained and authorised personnel. Switch off the power line before wiring the actuator.



If the NovoCon® M network is supplied with two or more AC power boosters, caution must be observed when disconnecting one of the transformers from the high voltage power line. As the NovoCons are connected in a daisy chain, there may be high voltage on the primary side of the disconnected power supply. Disconnect always both the primary and secondary side of the transformer.

Firmware update

We recommend to validate the firmware version before installation. The latest firmware can be downloaded at www.novocon.com by selecting the tab: Support files.

Part Name	Hazardous Substances Table					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Motor	X	O	O	O	O	O
<p>O: Indicates that this hazardous substance contained in all of the homogeneous material for this part is below the limit requirement in GB/T 26572;</p>						
<p>X: Indicates that this hazardous substance contained in at least one of the homogeneous material for this part is above the limit requirement in GB/T 26572;</p>						

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Documents / Resources

The image shows the front cover of a technical user guide. It features several small, detailed line drawings of different digital actuator models, arranged in a grid-like fashion. The text "NovoCon M" is visible at the top left of the cover.	<p>Danfoss DN 40 NovoCon M Digital Actuators [pdf] User Guide DN 40 NovoCon M Digital Actuators, DN 40, NovoCon M Digital Actuators, Digital Actuators, Actuators</p>
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References

-  [NovoCon® Digital actuators | Danfoss](#)

Manuals+.