



Danfoss AMV Series Actuators for Three Point Control Installation Guide

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Danfoss AMV Series Actuators for Three-Point Control



Specifications

Model: AMV 110 NL, AMV 120 NL
 Maintenance: Maintenance-free

• Operating Conditions: 5-95% RH (no condensing)

• Dimensions:

DN 10: L 109mm, H 138mm
DN 15: L 116mm, H 141mm
DN 20: L 125mm, H 143mm

o DN 25: G 1, L 142mm, H 155mm

• DN 32: b mm

Product Usage Instructions

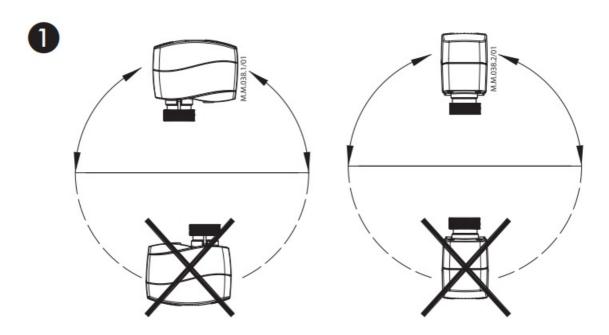
Safety Note

- To avoid injury of persons and damages to the device, it is absolutely necessary to read and observe these instructions carefully.
- Necessary assembly, start-up, and maintenance work must be performed by qualified and authorized personnel only.
- Please comply with the instructions of the system manufacturer or system operator.

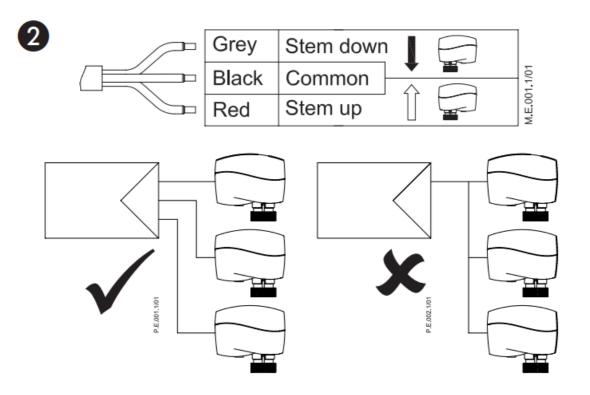


Mounting 1

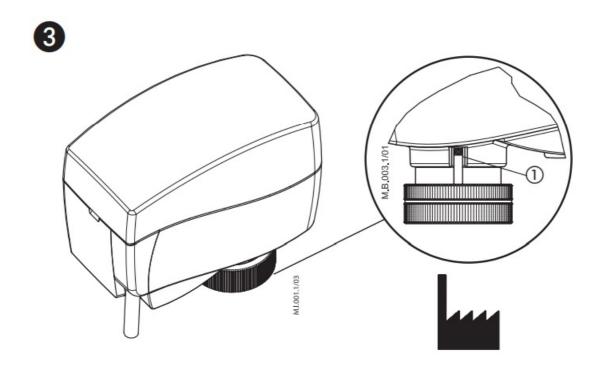
The actuator should be mounted with the valve stem in either horizontal position or pointing upwards. The actuator is fixed to the valve body by means of a ribbed nut which requires no tools for mounting. The ribbed nut should be tightened by hand.



Wiring 2
Do not touch anything on the PCB.



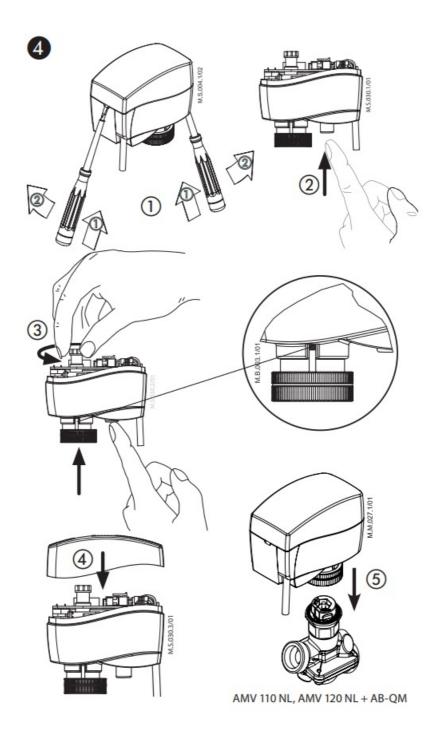
Installation 3



- 1. Check the valve's neck. The actuator should be in stem-up position (factory setting). Ensure that the actuator is mounted securely on the valve body.
- 2. Energize the actuator according to the wiring diagram.
- 3. The direction of stem movement can be observed on the position indicator **9**①.

Manual override 4

(for service purposes only)



Caution: Do not manually operate the drive under power!

Procedure:

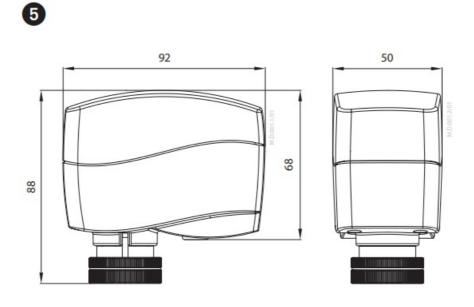
- Remove the cover ①.
- Press and hold the button ② (on the bottom side of the actuator) during manual override ③.
- Place cover back on the actuator 4.
- Install actuator on valve ⑤.

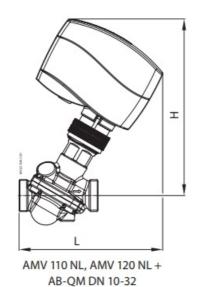
Remark:

- A click after energizing the actuator indicates that the gear wheel has jumped into normal position.
- Don't dismount the actuator from the valve when it is in a stem down position!
- If dismounted in a stem down position, there is a high risk that the actuator gets stuck.

Dimensions 5

Avoid touching anything on the PCB. Follow the hazardous substances table for part materials.





Tuna	L	Н	b	
Type	mm		ISO 228/1	
DN 10	109	138	G 1/2	
DN 15	116	141	G 3/4	
DN 20	125	143	G 1	
DN 25	142	155	G 1 1/4	
DN 32	160	166	G 1 ½	

Part Na me	Lead (Pb)	Mercur y (Hg)	Cadmiu m (Cd)	Hexavalent Chro mium (Cr(VI))	Polybrominated bip henyls (PBB)	Polybrominated dipheny I ethers (PBDE)
Connecti ng nut	x	0	0	0	0	0

- **O**: Indicates that the hazardous substance is below the limit requirement in GB/T 26572.
- X: Indicates that the hazardous substance exceeds the limit requirement in GB/T 26572.

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FAQ

Q: Can the actuator be mounted in any orientation?

A: The actuator should be mounted with the valve stem either horizontally or pointing upwards for proper operation.

Q: What should be done if the actuator gets stuck?

A: If the actuator gets stuck, do not dismount it from the valve in a stem down position to avoid further issues.

Q: How can I perform manual override?

A: Manual override should only be done for service purposes, and it is crucial not to manually operate the drive under power to prevent damage.

Documents / Resources



<u>Danfoss AMV Series Actuators for Three Point Control</u> [pdf] Installation Guide AMV 110 NL, AMV 120 NL, AMV Series Actuators for Three Point Control, Actuators for Three Point Control, Three Point Control, Point Control

References

- Danfoss España: Soluciones innovadoras y ahorro de energía | Danfoss
- Danfoss France économie d'énergie et solutions innovantes | Danfoss
- Engineering Tomorrow | Danfoss
- User Manual

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