



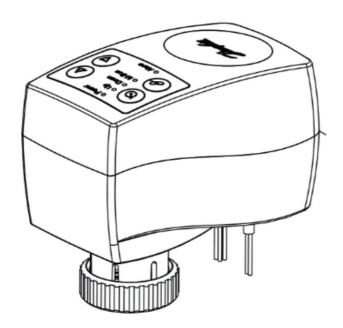
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Danfoss CN0101 BeaCon Actuator Actuator Dynamic Balancing Valve



Product Specifications

• Product Name: BeaCon Actuator

• **Dynamic** Balancing Valve (AB-QM) (DN15-32)

• Control Valve (RA-G) (DN20-32)

• Power Supply: 24V

• Communication: M-BUS

Product Usage Instructions

Installation

- 1. Install with a Dynamic balancing valve (AB-QM) via M30x1.5 thread.
- 2. Install with a Dynamic balancing valve (AB-QM) via RA connector.

Manual Operation

- Press the up and down buttons together for 4 seconds until the power light flashes to enter manual operation mode.
- Press the up or down button for 4 seconds. The actuator spindle will move accordingly with the respective light flashing.
- Press the reset button shortly for calibration or long-press for 5 seconds to reset the actuator.

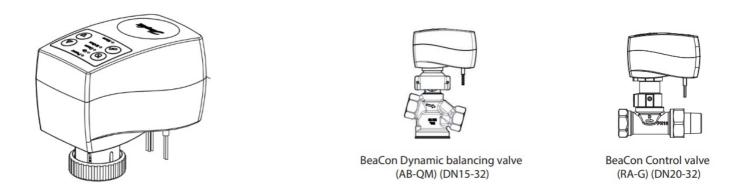
Safety Note

- Read and observe all instructions before assembly and commissioning to avoid injury and damage.
- All assembly, start-up, and maintenance work should be carried out by qualified personnel.
- Switch off the power line before wiring the actuator.

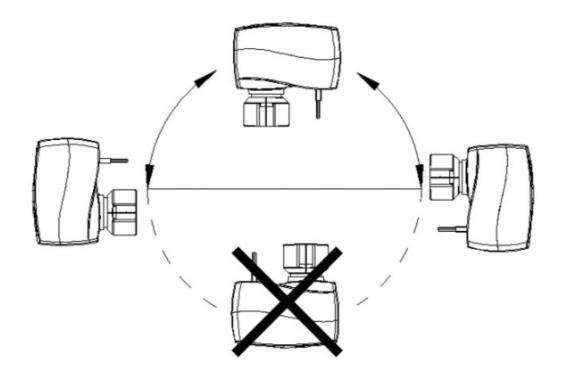
Additional Information

- Connect via a safety isolating transformer.
- Dismantle the product for recycling or disposal following local regulations.

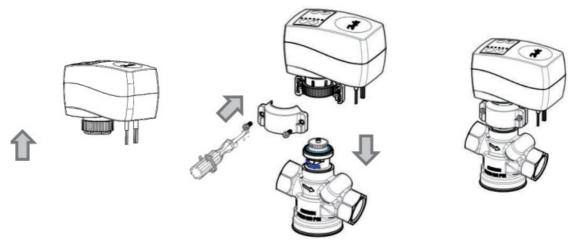
BeaCon Actuator



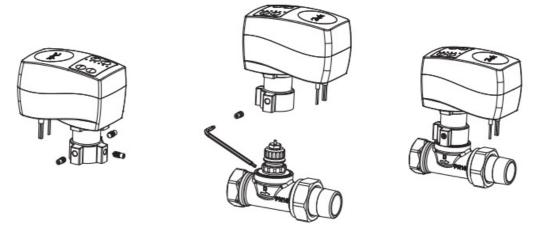
Installation Guide



• A: Install with a Dynamic balancing valve (AB-QM) via M30x1.5 thread



• B: Install with a Dynamic balancing valve (AB-QM) via RA connector

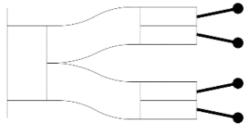


• Black: Power 24V

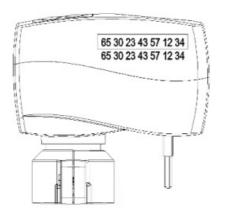
• Red: Communication: M-bus

Yellow

White

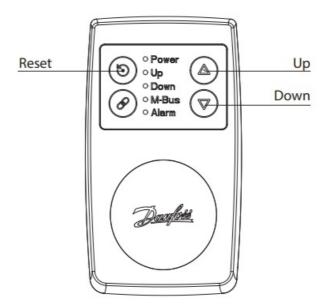


 Address ID laser on the side of the actuator, which can be removed from the actuator for recording or saving.



Manual operation

- Press the up and down buttons together 4 times until the power light flashes to enter manual operation mode.
- Press the up(down) button 4s. The actuator spindle will move up (down). Up(down) light flashing during the spindle movement.
- Press the reset button short time. The actuator performs calibration.
- Press the reset button long time, 5s. Actuator reset. All lights flashing together one time.
- The spindle of the actuator moves to the top and stops for 1 min. Then, perform calibration automatically.



Indicator explanation

Indicato	Long bright	off	Slow blink	fast blink
Power	M-BUS control	Power off/Alarm	Manual operation	
Up	Fully open position of valve		Moving up	
Down	Fully close the position of the valve	Middle position of the valve	Moving down	

M-BUS	Receiving the data pac kage within 10 minutes	M-BUS disconn	No data package within 10 min	
Alarm		normal		Fault diagn osis

Safety Note

- Z! To avoid injury and damage to persons and devices, these instructions must be carefully read and observed before 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.
- Connect via a safety isolating transformer.
- Galvanic separations shall be provided for segments crossing buildings.
- This product should be dismantled, and its components sorted, if possible, into various groups before recycling or disposal. Always follow the local disposal regulations.

CUSTOMER SERVICE

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Frequently Asked Questions

• Q: How do I perform a factory reset on the actuator?

- A: Press the reset button for 5 seconds to reset the actuator.
- All lights will flash together once, and the spindle will move to the top and stop for
 1 minute before automatic calibration.

Q: What should I do if the M-BUS connection is lost?

- A: If there is no data package received within 10 minutes, the M-BUS indicator will blink fast, indicating a loss of connection.
- Check the connections and restart if necessary.

Documents / Resources



Danfoss CN0101 BeaCon Actuator Actuator Dynamic Balancing Valve [p df] Installation Guide

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References

- User Manual
- Danfoss
- ♦ Actuator Actuator Dynamic Balancing Valve, Actuator Dynamic Balancing Valve, Balancing Valve, BeaCon Actuator Actuator Dynamic Balancing Valve, CN0101, CN0101 BeaCon Actuator Actuator Dynamic Balancing Valve, Danfoss, Dynamic Balancing Valve

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