

PRODUCT DATA SHEET (rev. 01/03.2020)**1. Name**

NC 230V, M30x1.5 Manifold Actuator

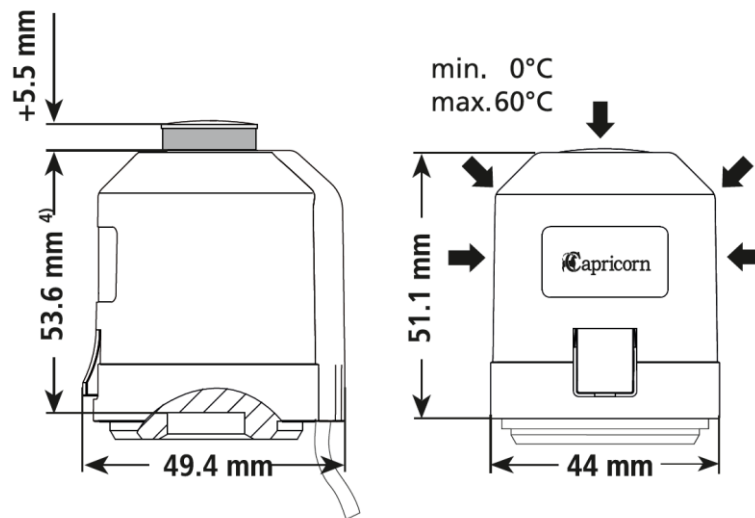
2. Product Features and Intended Use

When connected to a room thermostat, the electric actuator of the manifold's temperature control valve makes it possible to control indoor temperature. The actuator is installed on the temperature control valves located on the manifold's bar. It opens or closes the flow of the heating agent in the heating circuit, thus enabling temperature control. The Capricorn actuator is a NC type and designed for use with different manifolds, thanks to a system of adapters. The actuator features the **'First open'** function, which allows performing a leakage test, without removing the actuator, after it has been installed on the temperature control valves. After connecting voltage for the first time for more than 5 minutes, the actuator starts working as a typical NC actuator.

3. Principle of operation

The actuator closes or opens via an electric connection, e.g. with a room controller, depending on the room temperature. The movement of the actuator is caused by heating up the expansion unit - the substance contained in it increases its volume allowing the actuator to move. The Capricorn actuator has a mounting adapter with M30x1.5 thread. It has an inseparable 2-core connection cable, 1m long, for connecting to the control panel or directly to the thermostat. The actuator is a NC type - to open the circuit after a power failure, the actuator must be removed from the temperature control valve.

4. Dimensions



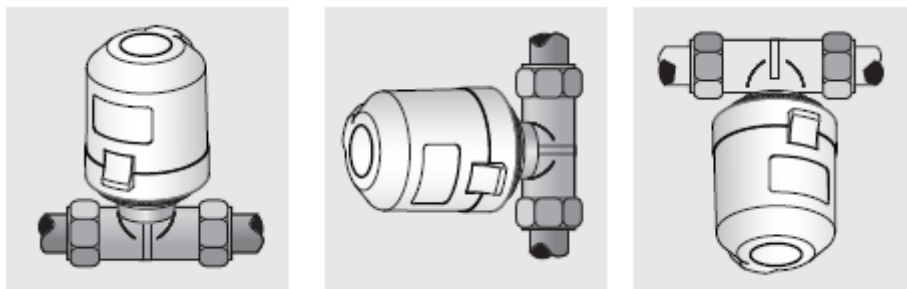
Actuator position: open

closed

5. Installation

Make sure the installation is carried out correctly for the actuator to work properly, according to the following recommendations:

- Start installing the actuator by placing the adapter on the valve and then mounting the actuator using the so-called 'click' method.
- Installation should be carried out without any tools.
- If installing the actuator on a manifold, which has not been tested by Capricorn, you do it at your own risk - please, make sure that the valve is dimensionally matched to the adapter and the actuator.
- The permissible mounting positions:



CAUTION! The actuator is powered by a voltage dangerous to human life and health. During installation, it is essential to disconnect the power supply!

6. Technical Parameters

Type	230V	24V
Version	NC (Normally Closed)	
Voltage	230VAC, 50/60Hz	24VAC, 0-60Hz
Maximum activation current	max 300mA	max 250mA
Driving power	8mA	
Working power	2W	
Closing and opening time	3 mins	
Actuator stroke	4mm	
Actuating force	100 N ±5%	
Fluid temperature (°C)	0°C to 100°C	
Storage temperature	-25°C to +60°C	
Ambient temperature	0°C to +60°C	
Protection rating	IP54 2) / II	
CE compliance	EN 60730	
Material / colour of casing	Polyamide / grey	
Weight	100g	
Connection cable	length 2 x 0.75mm ² , PVC, grey / 1m	
Overvoltage protection	2.5kV	

7. Codes

Product code	Name
8-3855-030-67-22-00	NC 230V, M30x1.5 VA67 ELECTRIC ACTUATOR
8-3853-024-67-22-00	NC 24V, M30x1.5 VA67 ELECTRIC ACTUATOR
8-3854-030-10-22-00	NC 230V, M30x1.5 VA10 ELECTRIC ACTUATOR

8. Logistic data

Product code	Unit packaging			Bulk packaging		
	Items per packaging (pcs.)	Packaging dimensions Length x Width x Height [mm]	Weight [kg]	Number of packagings on a pallet [pcs.]	Packaging dimensions Length x Width x Height [mm]	Weight [kg]
8-3855-030-67-22-00	1	74x50x89	0.13	100	465x314x250	14
8-3853-024-67-22-00	1	74x50x89	0.13	100	465x314x250	14
8-3854-030-10-22-00	1	74x50x89	0.13	100	465x314x250	14

9. Advantages

- compatible with all Capricorn manifolds (the versions with temperature control valves),
- 230V version works with any type of 230V underfloor heating controller,
- the actuator keeps the valve closed without power supply (NC)
- compact size, small dimensions
- maintenance-free
- the actuator is characterised by high functional safety
- protected against sudden voltage swell
- installation position 360°
- low power consumption
- fast and tool-free assembly
- it is possible to choose an adapter for any valve
- controlling the adjustment of the actuator on a valve

11. Warranty and liability

When carrying out installation, always follow the Occupational Health and Safety regulations included in Capricorn S.A. construction regulations and standards. Detailed information on the terms and conditions of our warranty and scope of liability is available at www.capricorn.pl.

12. Manufacturer

Capricorn S.A.

58-160 Poland, Świebodzice,

Ciernie 11

Tel./Fax +48/74/854 05 16

www.capricorn.pl

E-mail: capricorn@capricorn.pl

The products, texts, images, drawings or charts in this document may be changed by Capricorn S.A. without a prior notice or explaining a reason. For the latest information about our products please visit our website www.capricorn.pl.