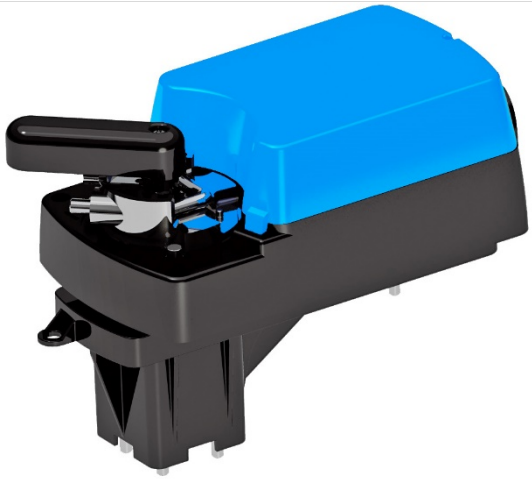
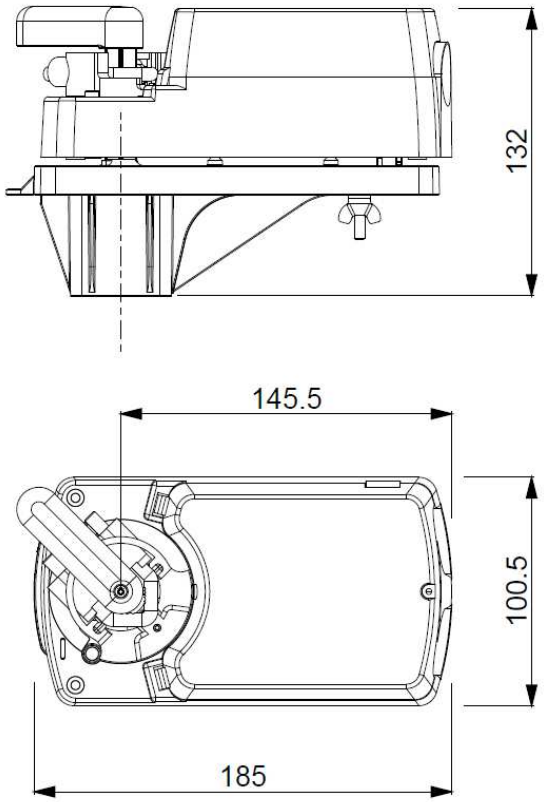


DESCRIPTION

SN08CC

100...240V electromotive actuator proportional (0-10V) to drive Pressure Independent Control Valve **EvoPICV series 81 and 83**.
With manual override and angle limitation system. 1 m cable included.

DIMENSIONS



Dimensions in **mm**

TECHNICAL FEATURES

Type	Proportional 0(2)-10V / 0(4)-20mA
Supply voltage	100...240V AC ±10% – 50/60 Hz
Power consumption	4.5 W – Stand-by 0.5 W
Max. rotation	0° – 90°
Feedback	0(2)-10V / 0(4)-20mA
Angle limitation	5° - 85°
Torque	8 Nm
Running time	31 s – 90°
Life cycle	60.000
Storage temperature range	-30° / + 70°C (@)
Ambient temperature range	-20° / + 50° C (@)
Humidity range	5-95% RH
Degree of protection	IP54/III
Weight	1.3 kg
Colour	Black/Light blue
Cable	1 m
Connection to valve	F03, 9mm square, EN5211
Noise level	45 dB(A)

(@) no condensation

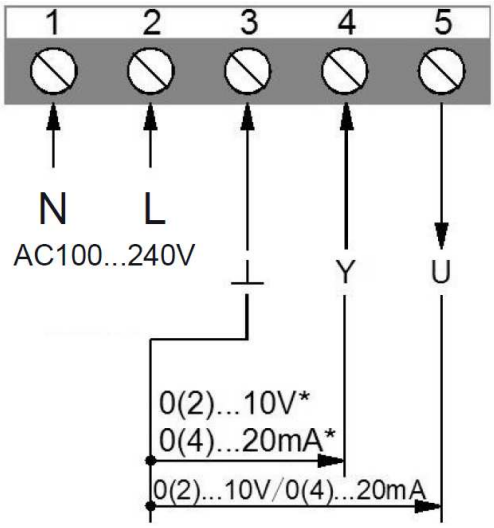
Electromotive actuators **SN08CC - 100...240V** are used to make proportional control systems, managed by BMS handling 0(2)-10 V voltage signal or 0(4)-20 mA current signal, of HVAC installations where **EvoPICV** rotary balancing valves are exploited. It can be installed on **DN40 and DN50 83** series with the presetting tool **081PR1**. It can be also run onto **81**, **83 DN25-DN32** and **83 DN40-DN50** without presetting tool. To preset the valves, please refer to dedicated technical specifications.
For further information about electrical connections, see the specific section.

APPROVALS

CE

STE0463 rev.00 05/05/2021

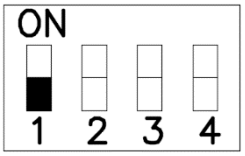
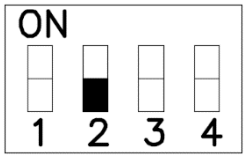
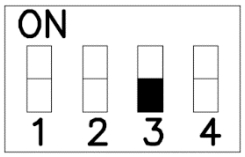
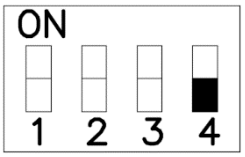
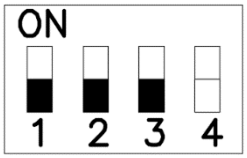
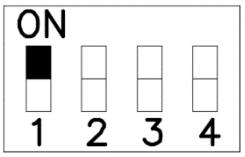
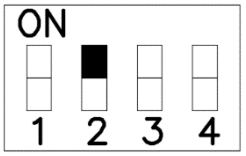
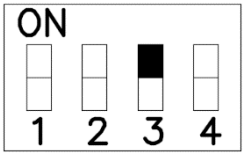
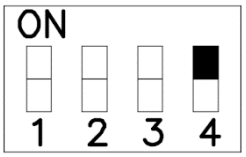
CONNECTION SCHEMES



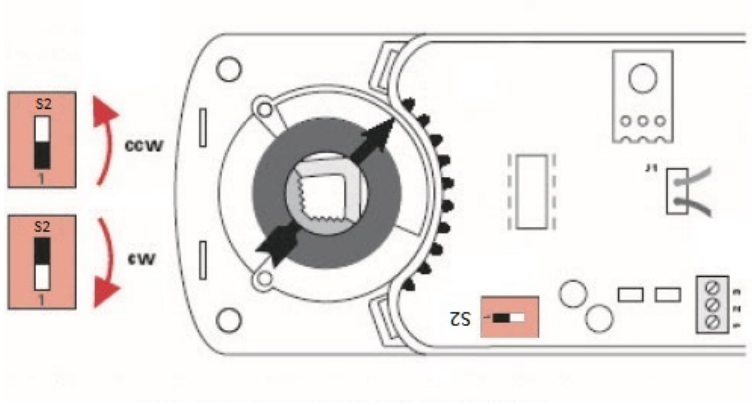
0(2)-10 V input impedance $R_i \geq 200$ kΩ

0(4)-20 mA input impedance $R_i = 500$ Ω

SETTINGS

DIP-Switch 1: **feedback signal type**	DIP-Switch 2: **control signal range**	DIP-Switch 3: **control signal type**	DIP-Switch 4: **not operating**	**Factory settings**
 OFF: voltage signal 0(2)-10 V	 OFF: 0-10 V or 0-20 mA	 OFF: voltage signal 0(2)-10 V	 OFF:	 Input: 0-10 V Feedback: 0-10V While the signal increases, the actuator rotates counter clockwise (S2 setting)
 ON: current signal 0(4)-20 mA	 ON: 2-10 V or 4-20 mA	 ON: current signal 0(4)-20 mA	 ON:	

Setting of rotation direction through DIP-Switch S2



With DIP-Switch towards "S2" indication, the rotation is **counter clockwise** when the signal increases. **FACTORY SETTING**.

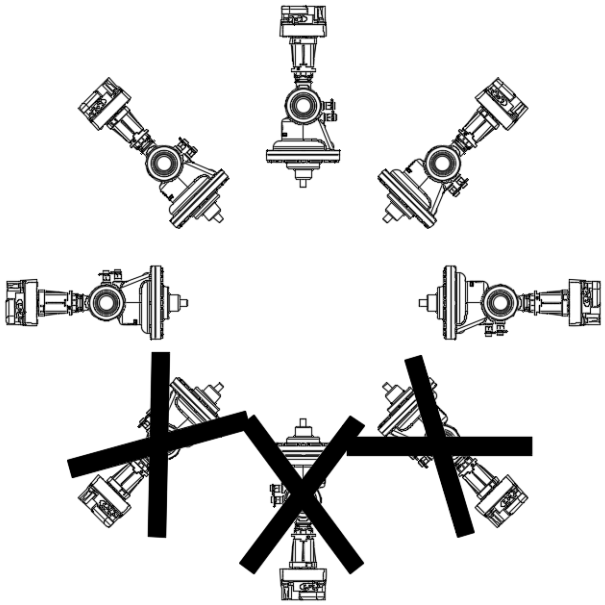
With DIP-Switch opposite to "S2" indication, the rotation is clockwise when the signal increases.

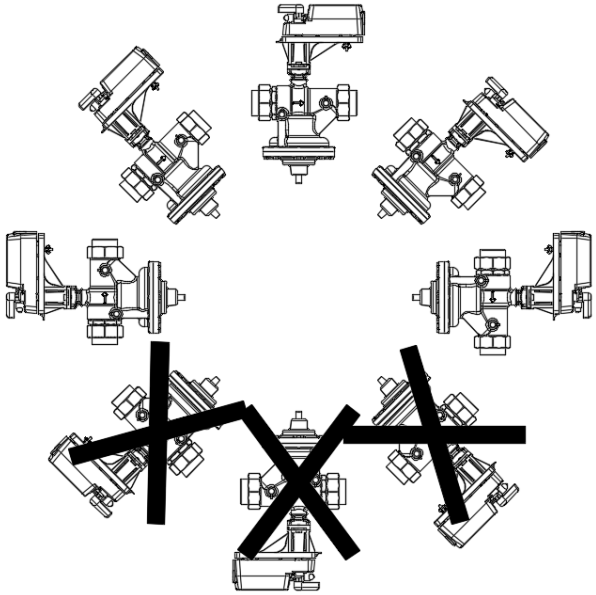
With factory settings, if the signal increases the valve opens; if the signal decreases, the valve closes.

STE0463 rev.00 05/05/2021

INSTALLATION

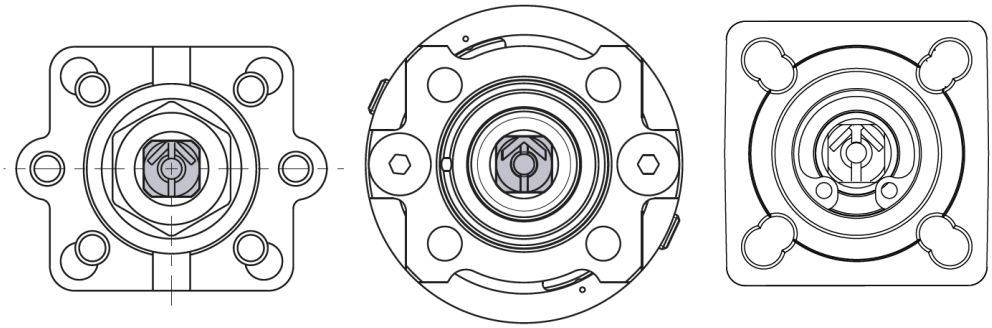
It is highly suggested to install **SN08CC** electromotive actuators in safe orientation: between any horizontal position (between 0° and 180°), so that means potential leakage from the stem does not damage them. Thus any upside down installation must be avoided.



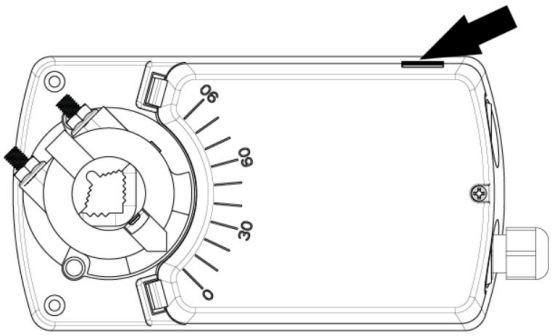


Mounting on valves

1. Close the valve by rotating clockwise the stem, getting it as in the picture below: the arrow must be right oriented with respect to the flow direction.



2. Close the actuator (arrow toward 0°) by pushing the manual override (black button on the right) and rotating clockwise. In case the actuator is already closed, skip this point.



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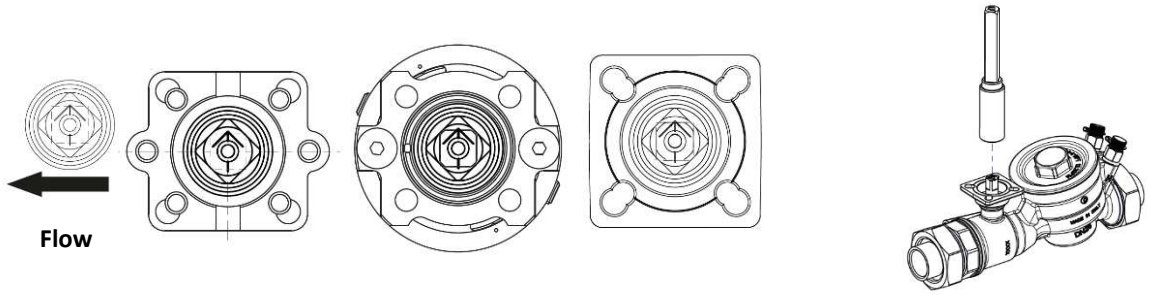
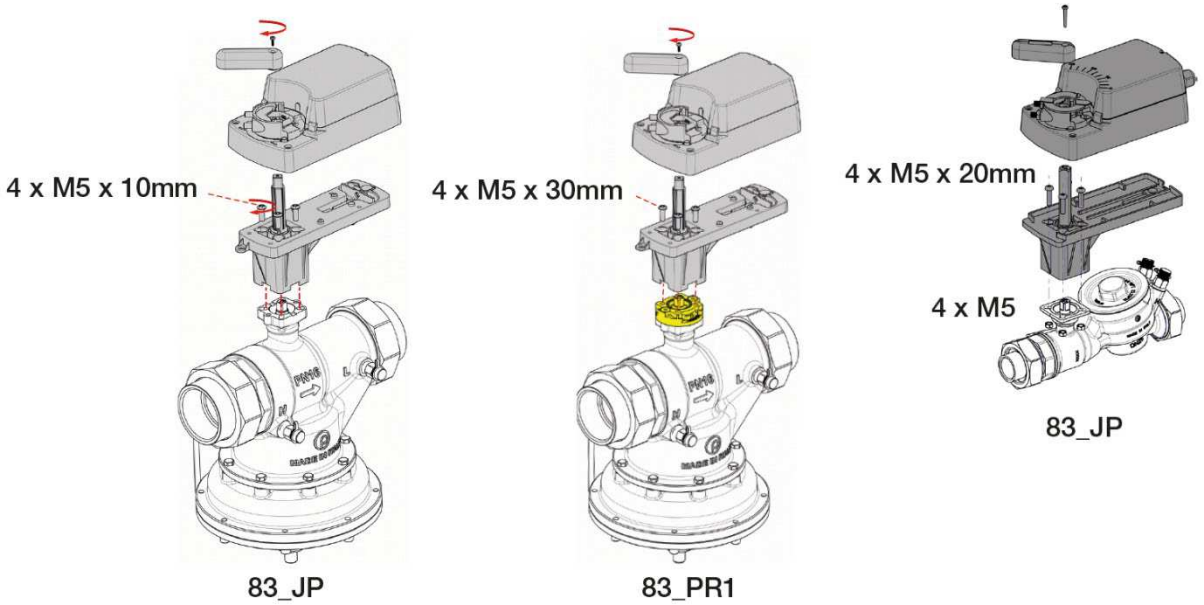
3. Place the stem adapter on the valve stem and make sure the arrow on the adaptor is aligned with the arrow on the valve stem.



4. Place the plastic support and fix it through the 4 screws according to the valve type. Then, place the actuator (in position 0°), block it behind and fix the stem adaptor. Assembly the lever.



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