



DESCRIPTION

VA9208

24V rotary electromotive spring return ON/OFF actuator to drive Pressure Independent Control Valve **EvoPICV series 83**.

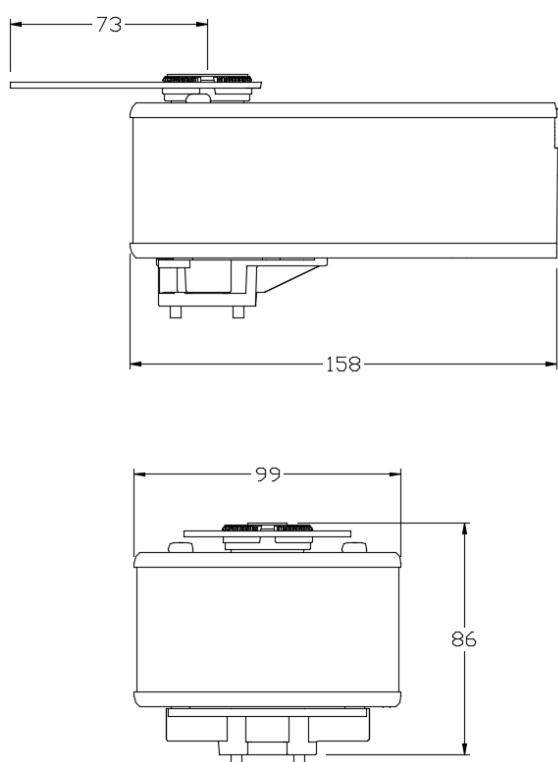
With manual override, angle indication and connecting cable included.

Reversible mounting.

DC brushless motor to keep rotation speed constant.

Spring return system provides rated torque returning the valve to the home position, also when power supply fails.

DIMENSIONS



Dimensions in mm

TECHNICAL FEATURES

Type	ON/OFF
Supply voltage	24V AC – 50/60 Hz - 24V DC
Power consumption	6.1 VA – Stand-by 1.2 VA
Max. rotation	0 – 95°
Torque	8 Nm
Running time	60 s – 90° power on; 13 ÷ 26 s – 90° power off;
Life cycle	60.000
Storage temperature range	-40° / + 85°C (@)
Ambient temperature range	-20° / + 60° C (@)
Degree of protection	IP54 (NEMA 2)
Weight	1.5 kg
Connecting cable	1.2 m UL758 Type AWM halogen free with 18 AWG, 6 mm ferrule ends
Connection to valve	F03, 9mm square, EN5211
Noise level	<47 dBA (running); < 52 dBA (spring returning) (@) no condensation

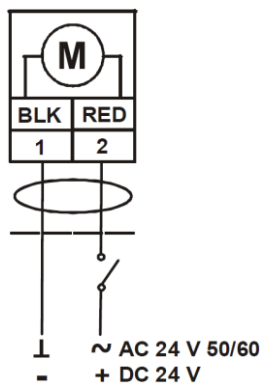
Electromotive actuators **VA9208 - 24V** are used to make ON/OFF (2 points) control systems of HVAC installations where **EvoPICV** balancing valves are exploited; in order to set the presetting during valve commissioning the presetting accessory **081PR1** is needed, which is included in models **83PR1** and has to be ordered separately in models **83JP**.

For further information about electrical connections, see the specific section.

APPROVALS



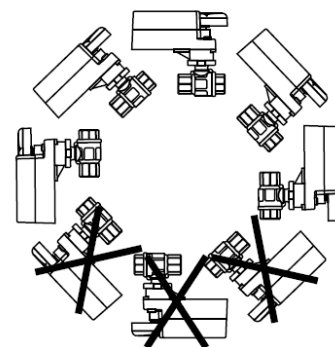
CONNECTION SCHEMES



BLK	Black
RED	Red

INSTALLATION

It is highly suggested to install **VA9208** electromotive actuators in safe orientation that means potential leakage from the stem does not damage them. Thus any upside down installation must be avoided, as shown by the figure beside.



ACTUATOR ASSEMBLY

The actuator **VA9208** can be assembled on **EvoPICV 83 series** on both sides (reversible mounting): mounting position is selectable, according to spring return direction. With actuator face labelled A away from valve spring return rotates counter clockwise (**CCW**); with actuator face labelled B away from valve spring return rotates clockwise (**CW**).

The actuator **VA9208** is delivered ready to be direct connected onto the **EvoPICV 83 series** with face B away from de valve (spring return rotates clockwise) so that the spring return works to close the **EvoPICV 83 series** since the spring return rotation is clockwise. **So the face B must be away from the valve (VALVE CLOSED)**. If the actuator wrongly comes with the face A away from the valve, carry out the following procedure to turn it upside down:

1. Remove screws from actuator face A	4. Connect the linkage to the actuator face A tightening the screws
2. Remove the linkage from the actuator face B	5. Snap the pointer on the actuator face B
3. Turn upside down the actuator	6. Connect the actuator VA9208C onto the valve EvoPICV 83 series CLOSED with the face labelled B away from the valve. Then connect electrically

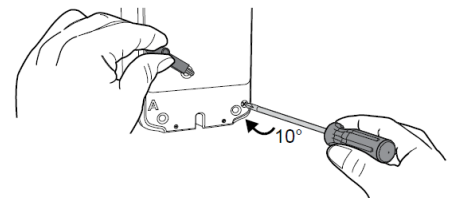
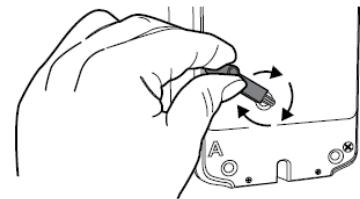
The picture below shows the actuator **VA9208** correctly mounted onto a **83PR1** valve.



MANUAL OVERRIDE

If a manual opening of the valve is needed, proceed as follows:

1. Break energy supply
2. Insert the Allen key (hex key) into the manual override adjustment point on the actuator face
3. Turn the key in the direction indicated on the actuator face (see figure beside)
4. The manual override has to be rotate from the fully spring return position to stroke end. The torque increases at the end of rotation. Do not force over end stroke position.
5. While holding the manual override, turn the red lock shaft 10° to lock the actuator hub in place (see figure beside)



To unlock the hub, slightly turn the override with specific key in the direction indicated by the arrow. If the actuator is powered on, the manual override automatically unlocks.