

MC52B

Actuator Zone - Modulating version

Product Description

MC52B is a bidirectional electro-mechanical actuator designed to provide floating increase/decrease control together with V354 valves. The actuator is supplied with an adapter that allows easy coupling to the V354 valves and is available in 24/230 Vac power supply versions.

Specifications

Actuator Zone MC20B-230	853 1320 000
Input voltage	230 Vac 50/60 Hz
Power consumption	5 VA
Actuator Zone MC20B-24	853 2320 000
Input voltage	24 Vdc or AC 50/60 Hz
Power consumption	0,5 VA
Speed	18 s/mm (50 Hz) - 15 s/mm (60 Hz)
Temperature	
Working	-5...55 °C (23...131 °F)
Storage	-25...65 °C (-13...149 °F)
Stem force	200 N (45 lbf)
Max stroke	8,5 mm (0.33 in.)
Connection cable	3 wires 1,5 m (5 ft)
Protection class	IP43 (for vertical mounting)
Suitable for valves	V354 PN 731 5425 000

Function

The valve stem movement is produced by rotation of a screw spindle connected, through a gear train, to a synchronous bidirectional motor.

An internal magnetic hysteresis coupling limits the torque on the valve stem, avoiding the usage of microswitches and protecting the actuator from overload.

The actuator consists of a base and a housing which contain motor, gear box, magnetic coupling, and valve driving screw spindle. The actuator-valve is easily assembled thanks to its threaded ring nut, which allows a comfortable cable positioning, and adapter screwed on to the valve.



Actuator

Adapter

The actuator is equipped with a cable for 3-wire electrical connection.

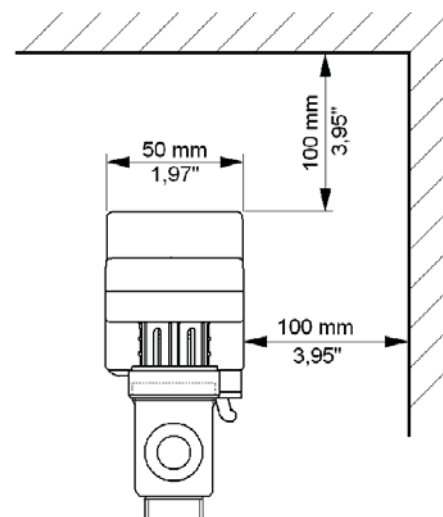
It requires no maintenance. All models are provided with a stroke indicator.

Due to the presence of the magnetic clutch, the actuator could be continuously powered up without damage but for long-life and energy saving it is highly recommended to use a controller equipped with a cut-off function (suggested timing 120% of stroke time).

All models allow manual override by means of a socket head key (3 mm).

It is necessary to power off the actuator before starting the manual control.

Dimensions mm (in)



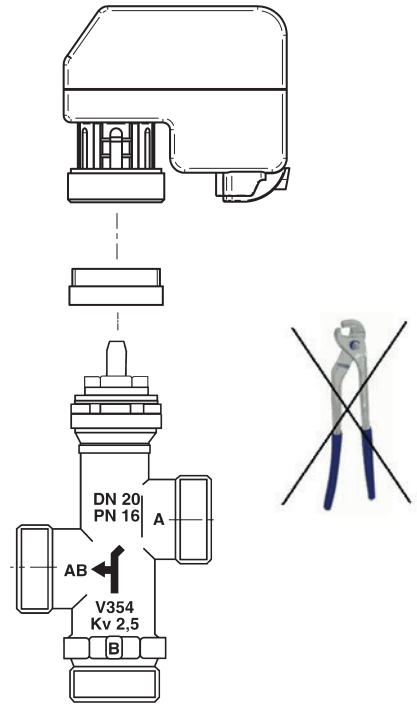
Mounting

Before mounting the valve, screw the adapter onto the valve M28x1,5 thread, then screw the actuator onto the valve.

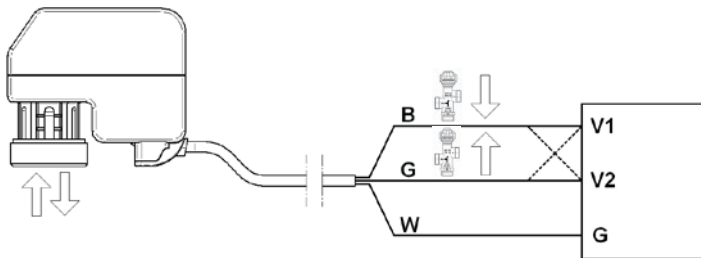
A ring nut M30x1.5 is placed on the lower part; it allows an easy coupling to the valve without special tools.

The protection degree declared (IP43) is granted if the valve is mounted with the actuator upwards.

The actuator is able to operate in any mounting position, but it is advisable not to install it with the valve above the actuator.



Connections



B = Brown
 G = Green
 W = White