

MC52B



Actuator Adapter

Actuator Zone - Modulating version

MC52B is an electro-mechanical actuator designed to provide floating increase/decrease control together with V354 valves.

The actuator is supplied with an adapter that allows an easy coupling to the V354 valves.

The actuator is available in 24/230 Vac power supply versions.

SPECIFICATIONS

Actuator Zone MC20B-230853-1320-000
 Input voltage. 230 VAC 50/60 Hz
 Power consumption 5 VA
 Actuator Zone MC20B-24853-2320-000
 Input voltage. 24 V DC or AC 50/60 Hz
 Power consumption 0,5VA
 Speed 18 s/mm (50 Hz) - 15 s/mm (60 Hz)

Temperature

working -5T55°C (23T131°F)
 storage. -25T65 °C (-13T149°F)
 Stem force 200 N (45 lbf)
 Max stroke 8,5mm (0.33 in.)
 Connection cable 3 wires 1,5 m (5 ft)
 Protection class IP43 (for vertical mounting)
 Suitable for valves. see table page 2

FUNCTION

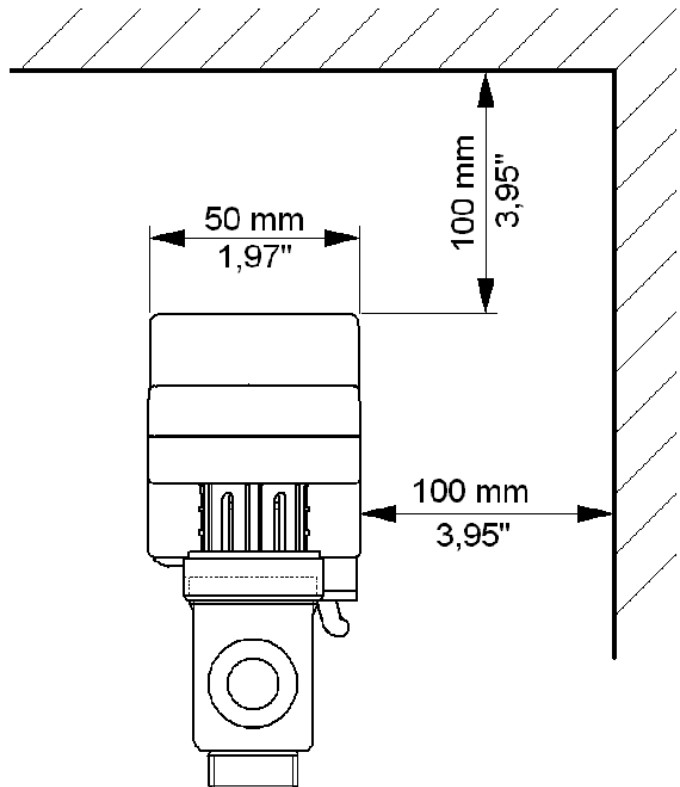
MC52B actuator is electric bidirectional.

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 made of syntetic materials which contain motor, gear box, magnetic coupling, valve driving screw spindle.

DIMENSIONS mm (in)



The actuator-valve assembly is easily made thanks to its threaded ring nut, (which allows a comfortable cable positioning) and an adapter to be screwed on to the valve.

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 damages but, for life increase 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.

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.

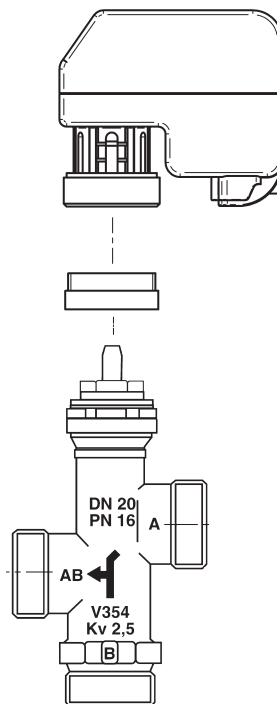
The protection degree declared (IP43) is granted if the valve is mounted with the actuator upwards.

The actuator is able to operate in any mounting position, but it is advisable not to install it downwards.

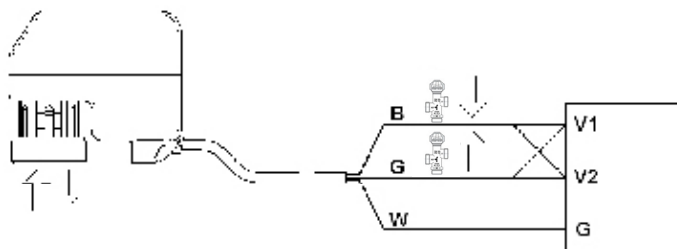
SUITABLE VALVES

V354 - part number 731-5425-000

MOUNTING



CONNECTIONS



B = Brown
G = Green
W = White