

# MC-52A

## Actuator Zone - Modulating version



MC-52A Actuator

Adapter

### Product Description

MC52A is a zone actuator designed to provide modulating control together with V354 valves.

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

Reliable longtime operation is ensured due to the fact that no mechanical feedback potentiometer and no mechanical endswitches are needed. Due to an automatic synchronization function the close-off point is self-adjusting.

Based on a running time of 155 s, valve positioning and flow adjustment is very exact.

### Specifications

Part number	853 2221 010
Range	(see page 3)
Input voltage	24 VAC 50/60 Hz
Power consumption	1 VA
Speed	18 s/mm (50 Hz) - 15 s/mm (60 Hz)
Temperature	
Working	-5 to + 55°C
Storage	-25 to + 65°C
Stem force	200 N
Max stroke	8,5 mm
Connection cable	3 wires 1,5 m
Protection class	IP 43 (for vertical mounting)
Suitable for valve	V354 Part Number 731-5425-000

### Features

MC52A actuator is electric modulating. 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 clutch limits the torque on the valve stem, avoiding the usage of microswitches and protecting the actuator from overload.

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.

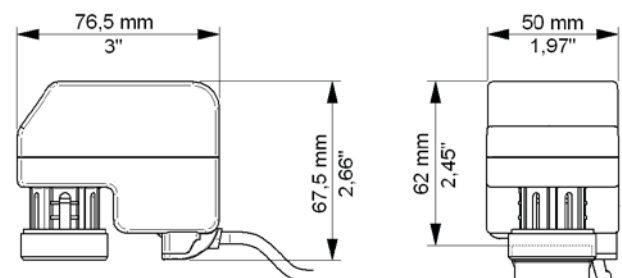
The actuator is equipped with a cable for 3-wire electrical connection. It requires no maintenance. All models are provided with a stroke indicator.

A microprocessor-based high performance positioner guarantees accurate control. The close-off position is self adjusting by means of an automatic synchronization function.

Synchronization is carried out when power is switched on and each time the stem reaches 0% or 100% of its travel.

Manual override is allowed 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)



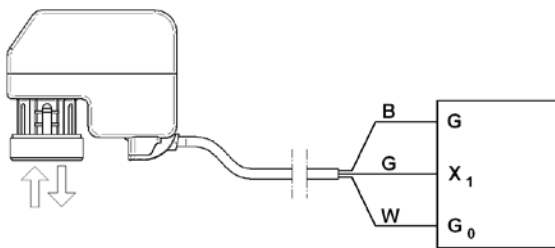
## Mounting

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

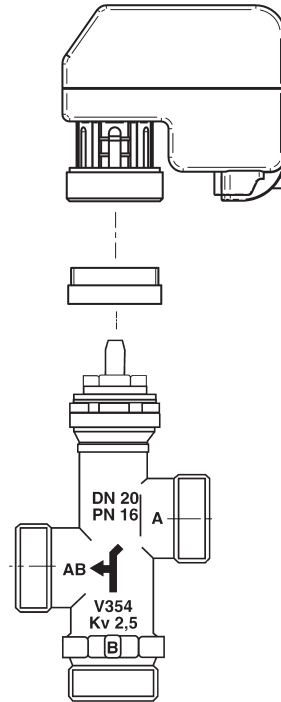
The Actuators' ring nut M30x1.5 allows easy coupling to the valve without special tools.

The protection degree declared (IP43) is granted if the valve is mounted with the actuator upwards as shown here; mounting fully opposite of what is shown here is not advised (e.g. not upside down).

## Connections



B = Brown  
G = Green  
W = White



## Range and Selection

MC52A has 7 different commands selected with embedded dip-switches and direct/reverse action, as below.

To access the dip-switches, remove the rubber plug.

## DIP Switches



ON	OFF	N. DIP.
100% 0%	0% 100%	1
0..10 V	—	2
6..9 V	—	3
1..5 V	—	4
2..10 V	—	5
4..7 V	—	6
6..10 V	—	7
8..11 V	—	8

