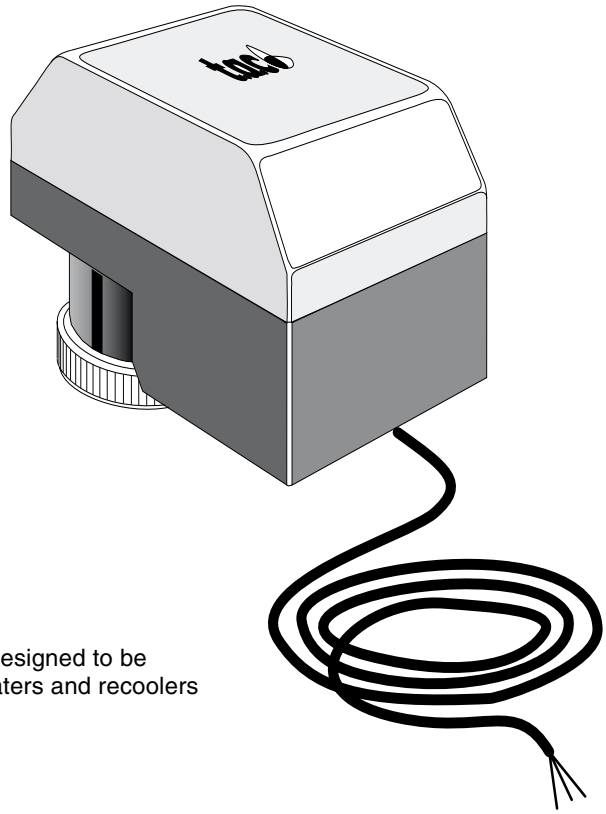
MZ20B

Actuator for zone valves

G-50-10

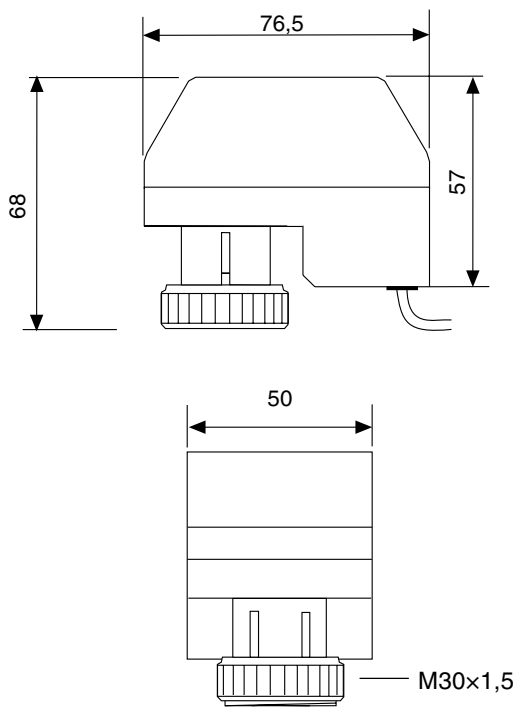
1999.12



MZ20B is an increase/decrease actuator designed to be mounted on VZ zone valves in small reheaters and recoolers using hot and/or cold water.

TECHNICAL DATA

Part number	845-5000-000
Supply voltage	24 V AC +10, –20%, 50/60 Hz
Power consumption	0,5 VA
Running time for VZ valves:	
at 50 Hz	165 s
at 60 Hz	137 s
Ambient temperature:	
Operation	0–60 °C
Storage	-25 °C – +65 °C
Housing material	ABS plastic
Enclosure rating	IP 43
Colour	light grey/black
Noise	<30 dB(A) according to ISO 3745
Control mode	3-position increase/decrease
Max stroke	6,5 mm
Stem stroke speed:	
at 50 Hz	30 s/mm
at 60 Hz	25 s/mm
Stem force	200 N
Insulation class	III (IEC 950)
Connection cable	1,5 m long by plug-in (CEI 20-22/II)
Cable insulation	PVC
Weight	0,25 kg
Maintenance	maintenance-free



Dimensions in mm

FUNCTION

The actuator is supplied with 24 V. Its movement is produced by the spindle, which is driven in both directions by a synchronous motor through a set of gears. A magnetic coupling limits the driving force of the actuator.

INSTALLATION

Mounting
To mount the actuator on the valve, first make sure that the actuator's stem is at the upper notch of the bracket (factory settings). Remove the protective plastic cap from the valve body. Fasten the actuator to the valve by tightening the coupling ring on the valve bonnet, see figure 1.

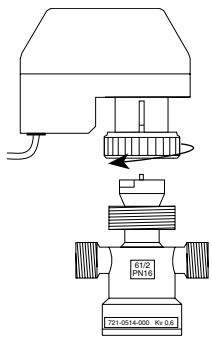


Figure 1

Actuator/valve unit
The actuator and valve may be installed in almost any position, but **not** upside down. Do not mount the actuator/valve unit closer to a wall or ceiling than is indicated in figure 2.

The electrical installation must comply with local safety regulations.

Make wiring connections according to the wiring diagram, see below.

When the actuator is powered 24 V AC between the white and the brown wire, the valve opens (i.e. the stem moves upward), and when it is powered 24 V AC between the white and the green wire, the valve closes.

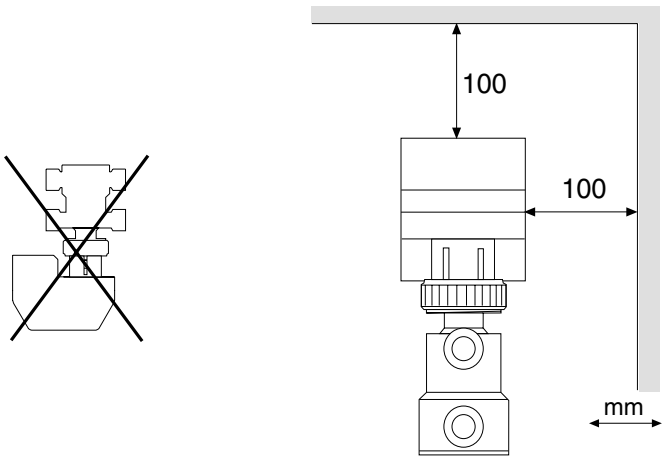


Figure 2

WIRING DIAGRAM

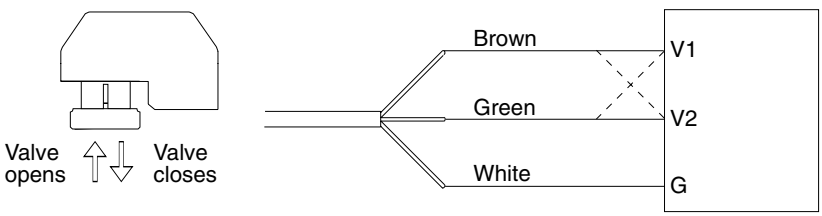


Figure 3

MAINTENANCE

The actuator is maintenance-free.