

## CONTROLLERS

# CONTROLLER SERIES CRA110

ESBE series CRA110 is a combined actuator and constant flow temperature controller with adjustable temperature setting within the range of 5 – 95 °C. For valves up to DN50, especially suited for ESBE 3-way valves series VRG or 4-way valves of series VRB.

### OPERATION

The ESBE series CRA110 is an integrated actuator and controller, for use with mixing valves. Temperature setting is done by an easy-to-use joystick and display interface.

An alternative target temperature may be activated by an external signal.

### MOUNTING

Power supply by 230 V AC adapter (complete with transformer, cable and plug) or 24 V AC (cable and plug).

Flow pipe sensor with 1.5m cable included (longer cable available as accessory). The sensor must be carefully insulated from the ambient temperature.

The CRA110 is easily mounted to the ESBE 3- and 4-way valves series G, MG, F, BIV, T, TM, H and HG, and with the valves of series VRG, VRH and VRB offer even more outstanding regulation accuracy and even simpler mounting.

### OPTIONAL EQUIPMENT

Art. No.

16200700 \_\_\_\_\_ ARA801 Auxiliary switch kit  
17053100 \_\_\_\_\_ CRA911 Flow pipe sensor, 5m cable  
17055900 \_\_\_\_\_ CRB915 GSM-module

### ADAPTOR KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve is supplied with each actuator. Adaptor kits can also be ordered separately.

Art. No.

16000500 (= supplied with actuator)  
\_\_\_\_\_ ESBE valve series VRG, VRH, VRB,  
G, MG, F, BIV, T, TM, H, HG

Adaptor kits for other mixing valves are available as follows:

Art. No.

16000600 \_\_\_\_\_ Meibes  
16000700 \_\_\_\_\_ Watts  
16000800 \_\_\_\_\_ Honeywell Corona  
16000900 \_\_\_\_\_ Lovato  
16001000 \_\_\_\_\_ PAW



CRA111/CRA115  
230 VAC



CRA112  
24 VAC

### SUITABLE MIXING VALVES

- Series VRG100
  - Series VRG200
  - Series VRG300
  - Series VRH100
  - Series VRB100
  - Series MG\*
  - Series G
  - Series F ≤ DN50
  - Series BIV
  - Series T and TM
  - Series H and HG
- \* Not 5MG

### TECHNICAL DATA

Ambient temperature: \_\_\_\_\_ max. +55°C  
\_\_\_\_\_ min. -5°C

Temperature range:  
Flow pipe sensor \_\_\_\_\_ +5 to +95°C

Enclosure rating: \_\_\_\_\_ IP41  
Protection class: \_\_\_\_\_ II

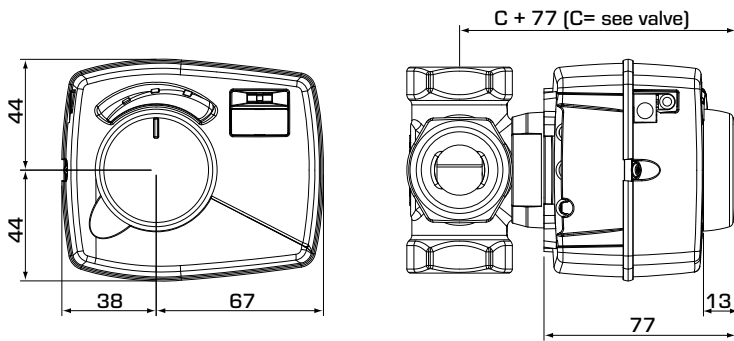
Power supply: \_\_\_\_\_ 24 ± 10% V AC, 50/60 Hz  
\_\_\_\_\_ 230 ± 10% V AC, 50 Hz

Power consumption - 24 V AC: \_\_\_\_\_ 3 VA  
- 230 V AC: \_\_\_\_\_ 10 VA

Torque: \_\_\_\_\_ 6 Nm  
Running time at max. speed: \_\_\_\_\_ 30s  
Weight: \_\_\_\_\_ 0.4 kg

CE LVD 2014/35/EU  
EMC 2014/30/EU  
RoHS 2011/65/EU

# CONTROLLER SERIES CRA110



Installation dimensions for Controller Series  
CRA110 with ESBE VRG100, VRG200,  
VRG300, VRH100 and VRB100 mixing valves

## SERIES CRA110

Art. No.	Reference	Voltage [VAC]	Temp. range	Torque [Nm]	Note	Replaces
12720100	CRA111	230	5-95°C	6	Transformer with UK plug	12700200
12720500	CRA115					
12720200	CRA112	24				

## INSTALLATION EXAMPLES

