

# ACTUATOR

## SERIES ARA600 2-POINT

ESBE Actuator Series ARA600 for operating ESBE mixing valves DN 15-50. The actuators have an operating range of 90° and can easily be manually operated. Patented + Registered design.

### OPERATION

The ESBE series ARA600 is a compact actuator designed for operating rotary mixing valves DN 15-50. The actuators ARA6X5, ARA6X6, ARA6X7 and ARA6X8 are controlled by 2-point (on/off) signal, and are recommended for diverting applications. The actuator has an operating range of 90° and the valve can easily be manually operated by the pull-and-turn knob on the front of the actuator.

In addition to the 2-point signal control, all the actuators can also be used for 3-point signal control.

### VERSIONS

The ESBE actuators with 2-point signal control are available for 24 or 230 V AC, 50 Hz and are supplied with a 1.5 m connection cable attached. Different running times are available, from 15 to 60 seconds.

An auxiliary switch, which can be set in any position, is available either as a pre-installed component fitted to the actuator (ARA6X6 and ARA6X8) or as an optional kit to be ordered separately. The auxiliary switch is easily set by a unique solution, by just lifting off the turning knob the switch cam is accessible, no tools or disassembly required.



2-point



2-point, auxiliary switch

### SUITABLE MIXING VALVES

Thanks to the special interface between the actuator series ARA600 and the ESBE valve series VRG and VRB, the unit as a whole has a unique stability and precision when regulating. The actuator series ARA600 is also easily mounted on the ESBE valve series MG, G, F, BIV, T, TM, H and HG.

- Series VRG100
- Series VRG200
- Series VRG300
- Series VRB100

- Series MG
- Series G
- Series F ≤ DN50
- Series BIV
- Series T and TM
- Series H and HG

### ADAPTOR KITS

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

Art. No.

1600 04 00 \_\_\_ ESBE valve series G, MG, F, BIV, T, TM, H, HG

1600 05 00 (= supplied with actuator)

\_\_\_ ESBE valve series VRG, VRB, G, MG, F, BIV, T, TM, H, HG

### TECHNICAL DATA

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

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

Power consumption: 24 V \_\_\_\_\_ 3 VA  
 230 V \_\_\_\_\_ 5 VA

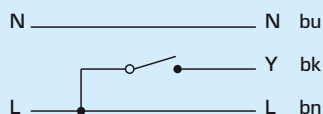
Enclosure rating: \_\_\_\_\_ IP41

Protection class: \_\_\_\_\_ II

Torque: \_\_\_\_\_ See table

#### 2-point control signal

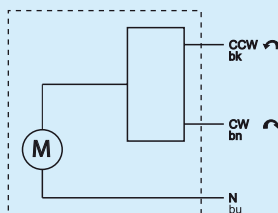
\*The direction of rotation is selected by jumper setting.



Actuator, series:

ARA635 – ARA638, ARA645 – ARA648, ARA655 – ARA658

#### 3-point control signal



Rating auxiliary switch: \_\_\_\_\_ 6(3) A 250 V AC

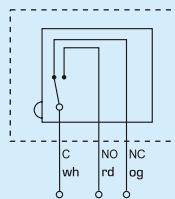
Weight: \_\_\_\_\_ 0.4 kg

CE LVD 2006/95/EC  
 EMC 2004/108/EC  
 RoHS 2011/65/EC

### WIRING

The actuator should be preceded by a multi-pole contact breaker in the fixed installation.

#### Auxiliary switch



Actuator with auxiliary switch, series:

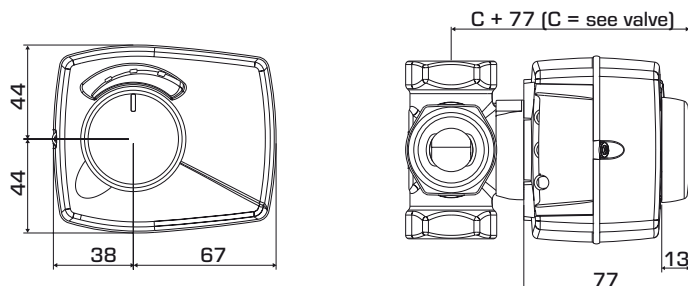
ARA636, ARA638, ARA646, ARA648, ARA656, ARA658

The actuators are fitted with two separate cables, one cable for actuator regulation and one for the auxiliary switch.

To set the switch position, remove the actuator knob and turn the green cam sleeve to the desired position.

# ACTUATOR

## SERIES ARA600 2-POINT



Installation dimensions for Actuator Series ARA600 with ESBE VRG100, VRG200, VRG300 and VRB100 mixing valves

### SERIES ARA600, 2-POINT 24 V AC

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal *	Torque [Nm]	Note
1212 01 00	ARA637	24	15	2-point SPST	3	2)
1212 04 00	ARA638					1), 2)
1212 02 00	ARA647	24	30	2-point SPST	6	1)
1212 05 00	ARA648					
1212 03 00	ARA657	24	60	2-point SPST	6	1)
1212 06 00	ARA658					

### SERIES ARA600, 2-POINT 230 V AC

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal *	Torque [Nm]	Note
1212 07 00	ARA635	230	15	2-point SPST	3	2)
1212 10 00	ARA636					1), 2)
1212 08 00	ARA645	230	30	2-point SPST	6	1)
1212 11 00	ARA646					
1212 09 00	ARA655	230	60	2-point SPST	6	1)
1212 12 00	ARA656					

\* 2-point SPST = Single Pole Single Throw Note 1) With premounted auxiliary switch 2) Recommended only for valves DN 15-32.

Adaptor kits for other mixing valves are available as follows:

Art. No.  
1600 06 00 \_\_\_\_\_ Meibes  
1600 07 00 \_\_\_\_\_ Watts  
1600 08 00 \_\_\_\_\_ Honeywell Corona  
1600 09 00 \_\_\_\_\_ Lovato  
1600 10 00 \_\_\_\_\_ PAW

### OPTION

Auxiliary switch kit \_\_\_\_\_ Art. No. 1620 07 00  
Cable hatch \_\_\_\_\_ Art. No. 1620 08 00