

# ACTUATOR

## SERIES ARA600 3-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 ARA6X1, ARA6X2, ARA6X3 and ARA6X4 are controlled by 3-point signal, and are recommended for mixing 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.

### VERSIONS

The ESBE actuators with 3-point signal control are available for 24 or 230 V AC, 50 Hz and it is supplied with an attached 1,5 m connection cable. A wide range of different running times is also available, from 30 to 240 seconds.

An auxiliary switch, which can be set in any position, is available either as a pre-mounted component fitted to the actuator (ARA6X2 and ARA6X4) 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.

### ADAPTOR KITS

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

Art. No.

16000500 \_\_\_\_\_ ESBE valve series  
VRG, VRB, VRH, 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

### OPTION

Art. No.

16200700 \_\_\_\_\_ Auxiliary switch kit



3-point

3-point, auxiliary switch

### SUITABLE MIXING VALVES

Thanks to the special interface between the actuator series ARA600 and the ESBE valve series VRG, VRB and VRH, the unit as a whole has a unique stability and precision when regulating.

- Series VRG100
- Series VRG200
- Series VRG300
- Series VRH100
- Series VRB100
- Series F ≤ DN50
- Series T
- Series HG

### TECHNICAL DATA

Power supply: \_\_\_\_\_ 24 ± 10% V AC, 50 Hz  
 \_\_\_\_\_ 230 ± 10% V AC, 50 Hz  
 Power consumption, 24 V: \_\_\_\_\_ 3 VA  
 230 V: \_\_\_\_\_ 5 VA  
 Ambient temperature: \_\_\_\_\_ max. +55°C  
 \_\_\_\_\_ min. -5°C  
 Enclosure rating: \_\_\_\_\_ IP41  
 Protection class: \_\_\_\_\_ II  
 Auxiliary switch - Rating, 24 V: \_\_\_\_\_ 6(3)A, 24V AC ± 10%  
 230 V: \_\_\_\_\_ 6(3)A, 230V AC ± 10%  
 Torque: \_\_\_\_\_ See table  
 Weight: \_\_\_\_\_ 0,4 kg



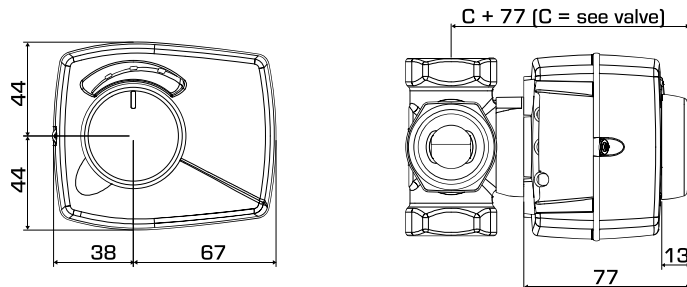
LVD 2014/35/EU  
 EMC 2014/30/EU  
 RoHS3 2015/863/EU

### WIRING

Please see the Installation Instruction.

### EXTENDED TECHNICAL DATA

Purpose of control: \_\_\_\_\_ Electronic Multi-position Actuator  
 Method of mounting: \_\_\_\_\_ Surface mounting  
 Rated impulse Voltage, 24 V: \_\_\_\_\_ 500V  
 230 V: \_\_\_\_\_ 4kV  
 Pollution degree: \_\_\_\_\_ 2  
 Type of action: \_\_\_\_\_ 1.B  
 Supplementary protective fuse demand,  
 24 V: \_\_\_\_\_ IEC60127 certified, rating T6.3A and 32V  
 230 V: \_\_\_\_\_ IEC60127 certified, rating T6.3A and 250V  
 Branch fuse demands: \_\_\_\_\_ 16A, characteristic C



Installation dimensions for Actuator Series  
ARA600 with ESBE VRG100, VRG200,  
VRG300, VRB100 and VRH100 mixing valves

**SERIES ARA600, 3-POINT 24 V AC**

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal *	Torque [Nm]		Note
					Nominal **	max.	
12100100	ARA643	24	30	3-point SPDT	5	6	
12100200	ARA653		60				1)
12100700	ARA654		120				1)
12100300	ARA663		240				
12100800	ARA664						
12100400	ARA673						

**SERIES ARA600, 3-POINT 230 V AC**

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal *	Torque [Nm]		Note
					Nominal **	max.	
12101100	ARA641	230	30	3-point SPDT	5	6	
12101600	ARA642		60				1)
12101200	ARA651		120				1)
12101700	ARA652		240				1)
12101300	ARA661						
12101800	ARA662						
12101400	ARA671						
12101900	ARA672						1)

\* 3-point SPDT = Single Pole Double Throw \*\* At 20°C ± 5°C Note 1) With premounted auxiliary switch