

# 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.



3-point

3-point, auxiliary switch

### 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 VAC, 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 1200 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.

### 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 MG
- Series VRG200
- Series G
- Series VRG300
- Series F ≤ DN40
- Series VRB100
- Series BIV
- Series T and TM
- Series H and HG

### LINKAGE 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

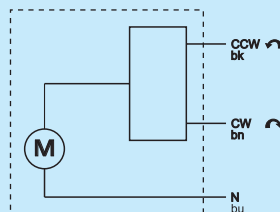
### TECHNICAL DATA

Ambient temperature: \_\_\_\_\_ max. +55°C  
 \_\_\_\_\_ min. -5°C  
 Power supply: \_\_\_\_\_ 24 ± 10% VAC, 50 Hz  
 \_\_\_\_\_ 230 ± 10% VAC, 50 Hz  
 Power consumption: 24 V \_\_\_\_\_ 2 VA  
 230 V \_\_\_\_\_ 5 VA  
 Enclosure rating: \_\_\_\_\_ IP41  
 Protection class: \_\_\_\_\_ II  
 Torque: \_\_\_\_\_ See table  
 Rating auxiliary switch: \_\_\_\_\_ 6(3)A 250 VAC  
 Weight: \_\_\_\_\_ 0.4 kg

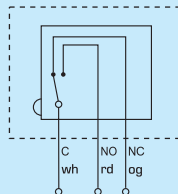
CE LVD 2006/95/EC  
 EMC 2004/108/EC  
 RoHS 2002/95/EC

### WIRING

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



Actuator, series:  
 ARA641 – ARA644,  
 ARA651 – ARA654,  
 ARA661 – ARA664,  
 ARA671 – ARA674



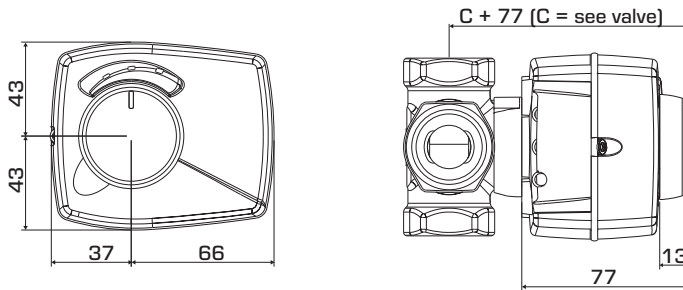
Actuator with pre-mounted auxiliary switch, series:  
 ARA642, ARA644, ARA652, ARA654, ARA662, ARA664,  
 ARA672, ARA674, ARA692, ARA694

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 3-POINT



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

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

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal*	Torque [Nm]	Note
1210 01 00	ARA643	24	30	3-point SPDT	6	1)
1210 06 00	ARA644					
1210 02 00	ARA653	24	60	3-point SPDT	6	1)
1210 07 00	ARA654					
1210 03 00	ARA663	24	120	3-point SPDT	6	1)
1210 08 00	ARA664					
1210 04 00	ARA673	24	240	3-point SPDT	6	1)
1210 09 00	ARA674					
1210 05 00	ARA693	24	120/240/480/1200	3-point SPDT	6	1)
1210 10 00	ARA694					

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

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal*	Torque [Nm]	Note
1210 11 00	ARA641	230	30	3-point SPDT	6	1)
1210 16 00	ARA642					
1210 12 00	ARA651	230	60	3-point SPDT	6	1)
1210 17 00	ARA652					
1210 13 00	ARA661	230	120	3-point SPDT	6	1)
1210 18 00	ARA662					
1210 14 00	ARA671	230	240	3-point SPDT	6	1)
1210 19 00	ARA672					
1210 15 00	ARA691	230	120/240/480/1200	3-point SPDT	6	1)
1210 20 00	ARA692					

\* 3-point SPDT = Single Pole Double Throw Note 1) With premounted auxiliary switch

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

#### OPTION

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