

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 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 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 ≤ DN50
- Series VRH100
- Series BIV
- Series VRB100
- 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.

- 16000400 ____ ESBE valve series G, MG, F, BIV, T, TM, H, HG
- 16000500 (= supplied with actuator)
- ____ ESBE valve series VRG, VRB, G, MG, F, BIV, T, TM, H, HG

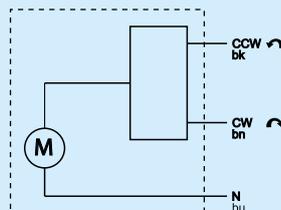
TECHNICAL DATA

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
 Rating auxiliary switch: _____ 6(3) A 250 V AC
 Weight: _____ 0.4 kg

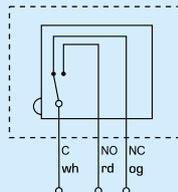
CE LVD 2014/35/EU
 EMC 2014/30/EU
 RoHS 2011/65/EU

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



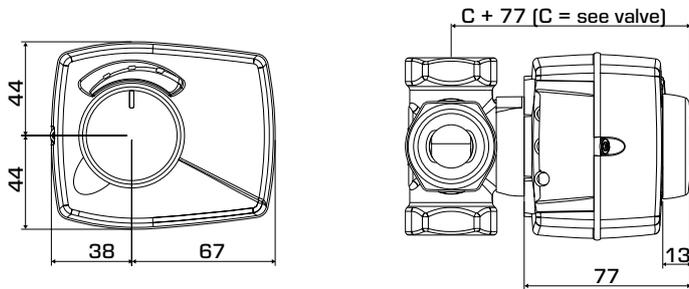
Actuator with pre-mounted auxiliary switch, series:
 ARA642, ARA644, ARA652, ARA654, ARA662, ARA664,
 ARA672, ARA674, ARA692, ARA694

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
12100100	ARA643	24	30	3-point SPDT	6	1)
12100600	ARA644					
12100200	ARA653	24	60	3-point SPDT	6	1)
12100700	ARA654					
12100300	ARA663	24	120	3-point SPDT	6	1)
12100800	ARA664					
12100400	ARA673	24	240	3-point SPDT	6	1)
12100900	ARA674					
12100500	ARA693	24	120/240/480/1200	3-point SPDT	6	1)
12101000	ARA694					

SERIES ARA600, 3-POINT 230 V AC

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal*	Torque [Nm]	Note
12101100	ARA641	230	30	3-point SPDT	6	1)
12101600	ARA642					
12101200	ARA651	230	60	3-point SPDT	6	1)
12101700	ARA652					
12101300	ARA661	230	120	3-point SPDT	6	1)
12101800	ARA662					
12101400	ARA671	230	240	3-point SPDT	6	1)
12101900	ARA672					
12101500	ARA691	230	120/240/480/1200	3-point SPDT	6	1)
12102000	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. _____
 16000600 _____ Meibes
 16000700 _____ Watts
 16000800 _____ Honeywell Corona
 16000900 _____ Lovato
 16001000 _____ PAW

OPTION

Art. No. _____
 16200700 _____ Auxiliary switch kit
 16200800 _____ Cable hatch