

# 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 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.



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

### 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

### 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



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

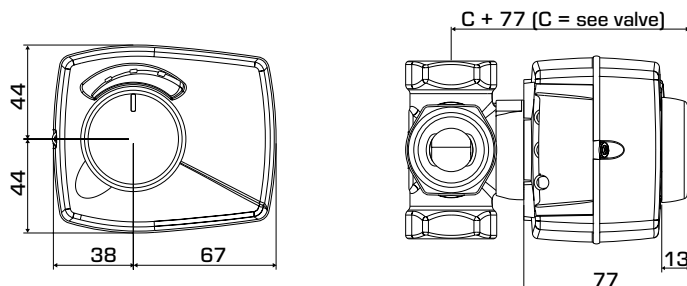


SI 2016 No. 1101  
SI 2016 No. 1091  
SI 2012 No. 3032

### WIRING

Please see the Installation Instruction.

# **ACTUATOR** **SERIES ARA600 3-POINT**



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 |
|----------|-----------|----------------|----------------------|-----------------|-------------|------|
| 12100100 | ARA643    | 24             | 30                   | 3-point SPDT    | 6           |      |
| 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           |      |
| 12100500 | ARA693    | 24             | 120/240/480/1200     | 3-point SPDT    | 6           |      |

## **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           |      |

\* 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