

# ACTUATOR

## SERIES ARA500 3-POINT

ESBE Actuator Series ARA500 for operating ESBE mixing valves DN 15-50. The actuators have an operating range of 90° and can easily be manually operated.

### OPERATION

The ESBE series ARA500 is a compact actuator designed for operating rotary mixing valves DN 15-50. The actuator is 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 ARA500 actuators are available for 230 V AC 50 Hz or 24 V AC 50 Hz. The actuator is supplied either with an attached 1.5 m connection cable or with a plug in contact (Molex). Running time is 120 seconds.

An auxiliary switch fixed to 45° is available as an option. (Mainly for VRB valve applications).



3-point



3-point, auxiliary switch



3-point, molex contact

### SUITABLE MIXING VALVES

Thanks to the special interface between the actuator series ARA500 and the ESBE valve series VRG100, VRG200, VRG300 and VRB100, the unit as a whole has a unique stability and precision when regulating.

- Series VRG100
- Series VRG200
- Series VRG300
- Series VRH100
- Series VRB100
- Series HG

### ADAPTOR KITS

The actuator is delivered either mounted together with valve from ESBE factory or otherwise supplied complete with an adaptor kit for easily fitting onto an ESBE rotary mixing valve series VRG / VRB.

### DELIVERY

Series deliveries are as a multi-package-solution since the ESBE series ARA500 is targeted specific towards OEM customer segment.

### TECHNICAL DATA

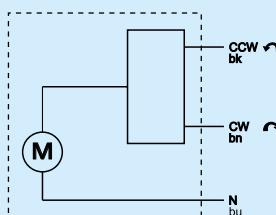
Ambient temperature: \_\_\_\_\_ max. +55°C  
 \_\_\_\_\_ min. -5°C  
 Enclosure rating: \_\_\_\_\_ with fixed cable: IP41  
 \_\_\_\_\_ with plug-in contact, type Molex: IP20  
 Protection class: \_\_\_\_\_ II  
 Power supply: \_\_\_\_\_ 230 ± 10%V AC, 50 Hz  
 \_\_\_\_\_ 24 ± 10%V AC, 50 Hz  
 Power consumption: \_\_\_\_\_ 230V AC: 5 VA  
 \_\_\_\_\_ 24V AC: 2 VA  
 Rating auxiliary switch: \_\_\_\_\_ 6(3) A 250V AC  
 Weight: \_\_\_\_\_ 0,4 kg

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

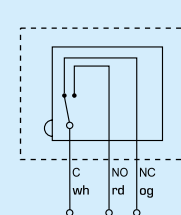
EAC

### WIRING

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



Actuator 3-point,  
with fixed cable



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



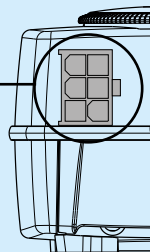
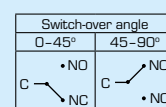
- 2 N (bu)
- 6 CCW (bk)
- 3 CW (bn)

Actuator 3-point,  
with plug-in contact



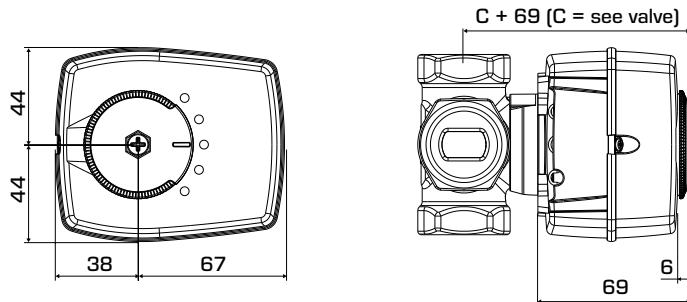
- 4 NO (rd)
- 1 C (wh)
- 5 NC (og)

Option, Auxiliary switch



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## SERIES ARA500 3-POINT



Installation dimensions for Actuator Series ARA500 with ESBE VRG100, VRG200, VRG300 and VRB100 mixing valves.

### PRODUCT ASSORTMENT

SERIES ARA500, 3-POINT – With cable

| Art. No. | Reference | Voltage [V AC] | Running time 90° [s] | Control signal * | Torque [Nm] | Note |
|----------|-----------|----------------|----------------------|------------------|-------------|------|
| 12141310 | ARA561    | 230            | 120                  | 3-point SPDT     | 6           | 1)   |
| 12140310 | ARA563    | 24             | 120                  | 3-point SPDT     | 6           | 1)   |

\* 3-point SPDT = Single Pole Double Throw Note 1) This art.no. describes a neutral single pack version. There will be an other art.no. for multi-package-solution.

SERIES ARA500, 3-POINT – With plug-in contact (Molex)

| Art. No. | Reference | Voltage [V AC] | Running time 90° [s] | Control signal * | Torque [Nm] | Note |
|----------|-----------|----------------|----------------------|------------------|-------------|------|
| 12146310 | ARA565    | 230            | 120                  | 3-point SPDT     | 6           | 1)   |
| 12145310 | ARA567    | 24             | 120                  | 3-point SPDT     | 6           | 1)   |

\* 3-point SPDT = Single Pole Double Throw Note 1) This art.no. describes a neutral single pack version. There will be an other art.no. for multi-package-solution.

SERIES ARA500, OPTION – Auxiliary switch

| Art. No. | Reference                                       | Note                                      |
|----------|---|---|
| 16200700 | ESBE ARA801, Auxiliary switch kit ARA600/ARA500 | For versions with connected cable         |
| 16201700 | ESBE ARA801, Auxiliary switch kit ARA500        | For versions with plug-in contact (Molex) |

SERIES ARA500, OPTION – Cable with molex connector (for plug-in-contact versions)

| Art. No. | Reference                                   | Note                                      |
|----------|---|---|
| 46050300 | ESBE ALZ801, 3-wire IP20, cable length 1.6m | For versions with plug-in contact (Molex) |
| 46050400 | ESBE ALZ801, 6-wire IP20, cable length 1.6m | For versions with plug-in contact (Molex) |