

ROTARY ACTUATORS

ACTUATOR SERIES ARA600 2-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 ARA6X5 and ARA6X6 are controlled by 2-point (on/off) signal, and are recommended for diverting 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.

In addition to the 2-point signal control, all the actuators can also be used for 3-point signal control.

VERSIONS

The ESBE actuators with 2-point signal control are available for 230 V AC, 50 Hz and are supplied with a 1,5 m connection cable attached. Different running times are available, from 15 to 60 seconds.

An auxiliary switch, which can be set in any position, is available either as a pre-installed component fitted to the actuator (ARA6X6) 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.



2-point

2-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: _____ 230 ± 10% V AC, 50 Hz
Power consumption: 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
RoHS3 2015/863/EU

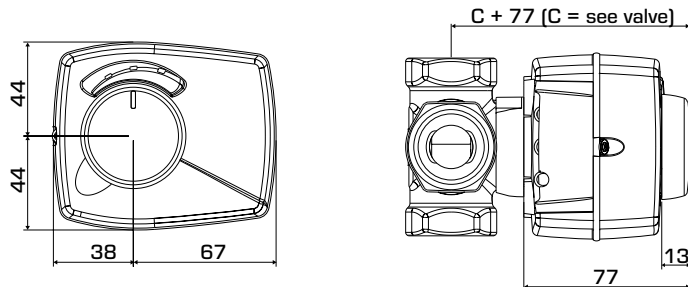
UK SI 2016 No. 1101
CA SI 2016 No. 1091
SI 2012 No. 3032

WIRING

Please see the Installation Instruction

ACTUATOR

SERIES ARA600 2-POINT



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

SERIES ARA600, 2-POINT 230 V AC

Art. No.	Reference	Voltage [V AC]	Running time 90° [s]	Control signal*	Torque [Nm]	Note
12120700	ARA635	230	15	2-point SPST	3	2)
12121000	ARA636					1), 2)
12120800	ARA645	230	30	2-point SPST	6	1)
12121100	ARA646					
12120900	ARA655	230	60	2-point SPST	6	1)
12121200	ARA656					

* 2-point SPST = Single Pole Single Throw Note 1) With premounted auxiliary switch 2) Recommended only for valves DN 15-32.

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

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

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

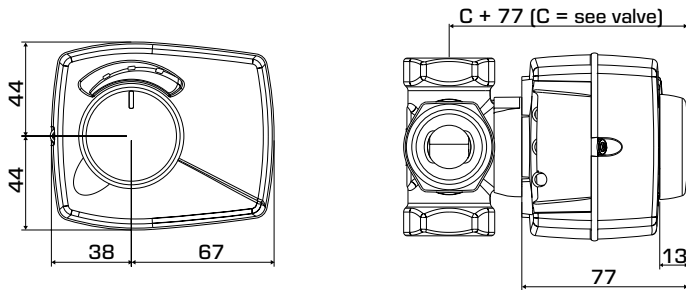
UK SI 2016 No. 1101
 CA SI 2016 No. 1091
 SI 2012 No. 3032

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

ACTUATOR SERIES ARA600 PROPORTIONAL



Proportional

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 ARA6X9 are controlled by proportional 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.

In addition to the proportional signal control, actuators series ARA639 can also be used for 3- and 2-point signal control.

VERSIONS

The actuators ARA6X9 are available for 24 V AC/DC, 50/60 Hz power supply. An auxiliary switch, which can be set in any position, is available 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.

The ARA659 can be set to running times of 45 and 120 seconds and is supplied with a 1,5 m cable attached.

The ARA639 can be set to running times of 15, 30, 60 and 120 seconds. The ARA639 also have the additional features of proportional analogue output signal for monitoring devices etc, optional advanced noise reduction of the input signal and positioning memory for fast startup after power failure.

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, G, MG, F, BIV, T, TM, H, HG

TECHNICAL DATA

Ambient temperature: _____ max. +55°C
 _____ min. -5°C
 Power supply: _____ 24 ± 10% V AC/DC, 50/60 Hz
 Enclosure rating: _____ IP41
 Protection class: _____ II
 Torque: _____ See table
 Power consumption - Operation, AC: _____ 5 W
 DC: _____ 2,5 W
 Power consumption - Dimensioning, AC: _____ ARA639, 11 VA
 _____ ARA659, 8 VA
 DC: _____ ARA639, 6 VA
 _____ ARA659, 4 VA
 Rating auxiliary switch: _____ 6(3) A 250 V AC
 Weight: _____ 0,4 kg

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

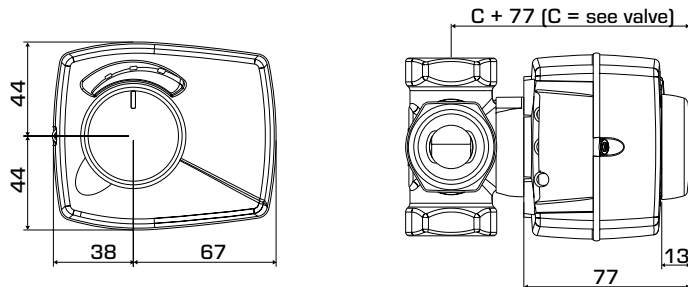
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 SI 2012 No. 3032

WIRING

Please see the Installation Instruction.

ACTUATOR

SERIES ARA600 PROPORTIONAL



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

SERIES ARA600, PROPORTIONAL 24 V AC/DC

Art. No.	Reference	Voltage [V]	Running time 90° [s]	Control signal	Torque [Nm]	Note
12520100	ARA639	24	15/30/60/120	0..10 V, 2..10 V, 0..20mA, 4..20mA	6	
12520200	ARA659	24	45/120	0..10 V, 2..10 V, 0..20mA, 4..20mA	6	

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