ROTARY MOTORIZED VALVES
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.

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 VRG100, VRG200 and VRB100, 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, H and HG.

- ● Series VRG100
- ● Series VRG200
- ● Series VRG300
- ● Series VRB100

- ● Series MG
- ● Series G
- ● Series F ≤ DN50
- ● Series BIV
- ● 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
1600 05 00 (= supplied with actuator)
_____ ESBE valve series VRG, VRB, G, MG

OPTION
Auxiliary switch kit_____ Art. No. 1620 07 00
Cable hatch _____ Art. No. 1620 08 00

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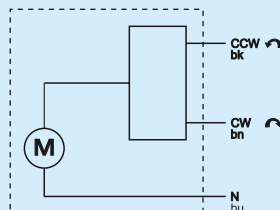_____ 230 ± 10% VAC, 50 Hz
Power consumption: 24 V_____ 2 VA
230 V _____ 5 VA
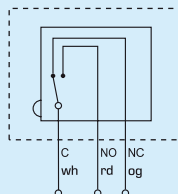Rating auxiliary switch: _____ 6(3)A 250 VAC
Weight: _____ 0.4 kg

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.

CCW bk
CW bn
N bu

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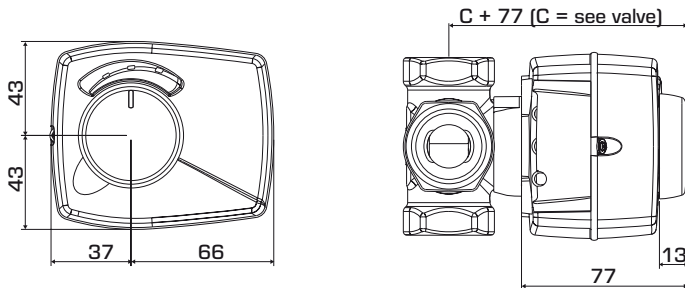ARA661 — ARA664,
ARA671 — ARA674

C wh   NO rd   NC og

Actuator with premounted 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.

NO.1 IN HYDRONIC SYSTEM CONTROL

ACTUATOR
SERIES ARA600 3-POINT

C + 77 (C = see valve)

43
43
37 66
77 13

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

ACTUATOR SERIES ARA600, 3-POINT 24 VAC

Art. No.	Reference	Voltage [VAC]	Running time 90° [s]	Control signal*	Torque [Nm]	Replaces	Note
1210 01 00	ARA643	24	30	3-point SPDT	6	—	
1210 02 00	ARA653	24	60	3-point SPDT	6	—	
1210 03 00	ARA663	24	120	3-point SPDT	6	62	
1210 04 00	ARA673	24	240	3-point SPDT	6	63	
1210 05 00	ARA693	24	120/240/480/1200	3-point SPDT	6	—	
1210 06 00	ARA644	24	30	3-point SPDT	6	—	1)
1210 07 00	ARA654	24	60	3-point SPDT	6	—	1)
1210 08 00	ARA664	24	120	3-point SPDT	6	62M	1)
1210 09 00	ARA674	24	240	3-point SPDT	6	63M	1)
1210 10 00	ARA694	24	120/240/480/1200	3-point SPDT	6	—	1)

ACTUATOR SERIES ARA600, 3-POINT 230 VAC

Art. No.	Reference	Voltage [VAC]	Running time 90° [s]	Control signal*	Torque [Nm]	Replaces	Note
1210 11 00	ARA641	230	30	3-point SPDT	6	—	
1210 12 00	ARA651	230	60	3-point SPDT	6	65	
1210 13 00	ARA661	230	120	3-point SPDT	6	66	
1210 14 00	ARA671	230	240	3-point SPDT	6	67	
1210 15 00	ARA691	230	120/240/480/1200	3-point SPDT	6	67-20	
1210 16 00	ARA642	230	30	3-point SPDT	6	—	1)
1210 17 00	ARA652	230	60	3-point SPDT	6	65M	1)
1210 18 00	ARA662	230	120	3-point SPDT	6	66M	1)
1210 19 00	ARA672	230	240	3-point SPDT	6	67M	1)
1210 20 00	ARA692	230	120/240/480/1200	3-point SPDT	6	67-20M	1)

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

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