ROTARY MOTORIZED VALVES

ACTUATOR **SERIES 90 PROPORTIONAL**

ESBE actuator Series 90 for operating ESBE mixing valves DN 15–150. This series is provided with adjustable cam discs to *obtain an operating range 30°–355° which make the series very* flexible.

OPERATION

The ESBE series 90 actuator is a compact actuator for operating rotary mixing valves. The actuator is reversible and is provided with limit switches which are actuated by cam discs. For 1255 01 00 to 1255 03 00 the operating range is 90° alt. 180°, and for 1255 04 00 the operating range is 355°. The actuator is provided with a disconnection for manual operation and has an indication on the front showing valve position.

The actuator is also available in step motor driven versions for regulation with different proportional signals and running times. Supply voltage 24 V AC/DC. The actuators are factory set at 0-10 V and 15 s for 1255 03 00, 60 s for 1255 01 00 resp. 120 s for 1255 02 00. Any adjustments are made by removal of front cover.

Turn the valve to the

desired position.





To operate the valve manually, push the button and use the lever. The electric current is automatically disconnected as long as the button is in the lower position.



To return to automatic operation, bring the lever to the position where it locks, and the button returns to the upper position. The current supply is now connected.



Proportional

SUITABLE MIXING VALVES

The actuator is supplied complete with an adaptor kit for easily fitting onto an ESBE rotary mixing valve.

- Series VRG100* Series VRG200* Series VRG300* Series VRB100* Series MG
- Series G Series F Series BIV Series T, TM

Series H and HG *Separate adaptor kit is required, see below

LINKAGE KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve is available in two different styles. Adaptor kit designed for ESBE mixing valve series MG, G, F, BIV, H, HG is supplied with each actuator. Adaptor kits for ESBE mixing valve series VRG and VRB can be ordered separetely. Art. No.

1605 13 00 (= supplied with actuator)

	_ESBE valve series MG, G, F, BIV, T, TM, H, HG
1605 33 00	ESBE valve series VRG, VRB

Adaptor kits for other mixing valves and valves built-into boilers are available as follows:

	Art. No.
BRV	1605 35 00
Centra ZR, DR, DRG, DRU (≤DN50)	1605 16 00
Centra Kompakt DRK/ZRK	1605 17 00
CTC, linear movement	1605 19 00
BRV, Meibes, Oventrop, Watts	1605 36 00
Sauter MH32H42	1605 13 00
Siemens VBG31, VBI31, VBF21, VCI31	1605 25 00
TA–VTR, TA–STM	1605 14 00
Schneider Electric/TAC-TRV	1605 26 00
Viessmann (all nominal diameters)	1605 15 00
WITA	1605 18 00
00 _ Various adaptor kits for built-in mixing valves	1605 20-24 00

TECHNICAL DATA

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Ambient temperature:	max. +55°C
	min. –15°C
Power supply:	24 ± 10% V AC/DC, 50/60 Hz
Power consumption:	5 VA
Enclosure rating:	IP 54
Protection class:	
Torque:	
Rating auxiliary switch:	6(3)A 250 VAC
Weight:	0.8 kg

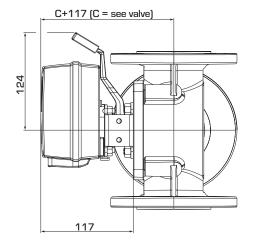


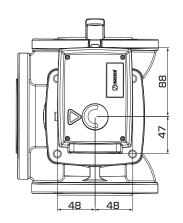




NO.1 IN HYDRONIC SYSTEM CONTROL

ACTUATOR SERIES 90 PROPORTIONAL





Installation dimensions for Actuator Series 90 with ESBE series MG, G, F, T/TM, H/HG and BIV mixing valves

SERIES 90, PROPORTIONAL 24 V AC/DC

Art. No.	Reference	Voltage [V]	Running time [s]	Torque [Nm]	Control signal	Remark
1255 03 00	91P	24	15/30/45	4	0–10 V, 2–10 V,	Operating range 90°
1255 01 00	92P		60/90/120	15		Operating range 90°
1255 02 00	92P2		120/180/240	15	0-20 mA, 4-20 mA	Operating range 180°
1255 04 00	92P4		120/240/360	15		Operating range 355°

WIRING

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

