ROTARY MOTORIZED VALVES

ACTUATOR
SERIES 90 PROPORTIONAL



Proportional

ESBE actuator Series 90 for operating ESBE mixing valves DN 15–150. This series is provided with adjustable cam discs to obtain adjustable operating range 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. The actuator is provided with a disconnection for manual operation and has an indication on the front showing valve position.

Supply voltage 24 V AC/DC. The actuator factory setting is 0-10V, 90°, 120s. Any adjustments are made by removal of the front cover.

SUITABLE MIXING VALVES

- Series VRG100*
- Series VRG200*
- Series VRG300*
- Series VRH100*
- Series VRB100*
- Series VBF100, DN20-65*
- Series F
- Series T
- Series HG

*Separate adaptor kit is required, see below

ADAPTOR KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve is available in three 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, VRH, VRB and VBF can be ordered separately.

Art. No.	
16051300	(= supplied with actuator)
___	ESBE valve series MG, G, F, BIV, T, TM, H, HG
16053300	ESBE valve series VRG, VRH, VRB
13905100	ESBE valve series VBF100

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

Art. No.	
16053600	BRV, Meibes, Oventrop**, Watts
16053900	Honeywell Centra ZR, DR, DRG, DRU (DN15–50)
16051700	Honeywell Centra Kompakt DRK/ZRK
16051300	Sauter MH32…H42…
16052600	Schneider Electric/TAC-TRV
16052500	Siemens VBG31, VBI31, VBF21, VCI31***
16051400	TA–VTR, TA–STM
16051500	Viessmann (DN20–25)

OPTIONS

Art. No.	
98100690	Separate auxiliary switch

TECHNICAL DATA

Ambient temperature:	max. +55°C
	min. –15°C
Power supply:	24 ± 10% V AC/ DC
Power consumption:	5 VA
Enclosure rating:	IP 54
Protection class:	II
Torque:	See table
Weight:	0,8 kg

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

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

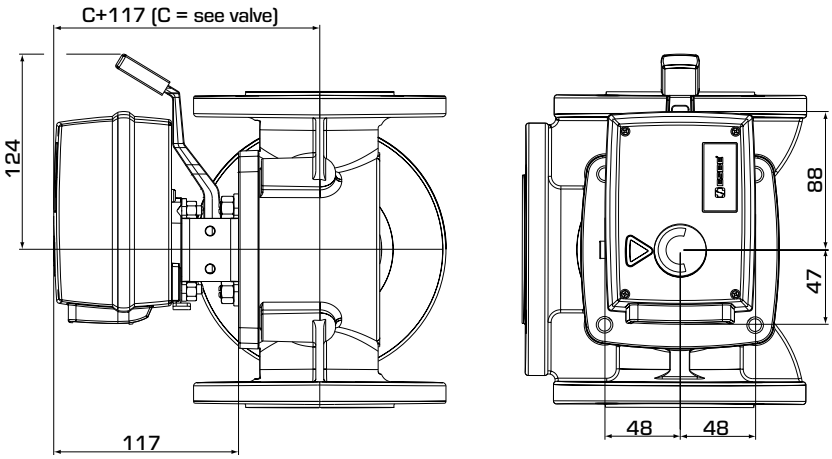
WIRING

Please see the Installation Instruction.

Notes: **For Oventrop mixing valves until ~2015 (old design of the housing). *** ≤ DN50

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ACTUATOR
SERIES 90 PROPORTIONAL



Installation dimensions for
Actuator Series 90

SERIES 90, PROPORTIONAL 24 V AC/DC

Art. No.	Reference	Voltage [V]	Running time [s]	Torque [Nm]	Control signal	Remark
12550500	93P	24	60 – 390 [1), 2)]	15	0–10 V, 2–10 V, 0–20 mA, 4–20 mA [1)]	Operating range 90/180/355° [1)]

Note 1) Factory settings are: 90° operating range, 0 – 10 V control signal and 120s running time.
2) The running time relates to set turning angel. More information can be found in the installation instruction.

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