

CONTROLLERS

CONTROLLER SERIES 90K

ESBE controller Series 90K is designed for constant flow temperature control within an adjustable range of 15–70°C. This series is intended to be used with ESBE 3-way mixing valves DN 15–150.



OPERATION

The ESBE 90K is an actuator with an integrated temperature regulator built into the actuator body intended for use with three port mixing or diverting valves. The unit is designed for constant flow temperature control within an adjustable range of 15°C to 70°C and is intended to be used with ESBE 3-way mixing valves.

The ESBE series 90K is available for 24 as well as 230 VAC, with different running times as shown in the table.

SETTINGS

The ESBE 90K controller is fitted with two adjustments on the front cover:

Right hand: for temperature setting, +15°C to 70°C.

Left hand: for setting of dwell time for control signal, from 1 to 70 seconds. Normally 30 seconds dwell time is suitable but it may be adjusted to each separate system. If the control accuracy is insufficient, the dwell time should be increased for fast circulation and vice versa.

HANDLING

For optional control the sensor should be placed 0.5 to 100 m downstream from the valve. The sensor must be carefully insulated from the ambient temperature.

MOUNTING

The ESBE 90K integrated control unit is supplied complete with:

- Sensor with 1.5 meters of cable and strap.
- Strain relief for sensor cable.
- Adaptor kit for easily fitting onto an ESBE mixing valves.

SUITABLE MIXING VALVES

The controller 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 H and HG

LINKAGE KITS

Required adaptor kits for easily fitting onto an ESBE rotary mixing valve is supplied with each actuator. If required, separate adaptor kits can be ordered as follows.

Art. No.

1605 33 00 _____ ESBE valve series VRG, VRB

1605 13 00 _____ ESBE valve series MG, G, F, BIV, H, HG

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

Art. No.

1605 16 00 _____ Centra ZR, DR, DRU

1605 17 00 _____ Centra Kompakt DRK/ZRK

1605 13 00 _____ Sauter MH32...H42...

1605 25 00 _____ Siemens VBG31, VBI31, VBF21, VCI31

1605 14 00 _____ TA-VTR, TA-STM

1605 15 00 _____ Viessmann (all nominal diameters)

1605 18 00 _____ WITA

TECHNICAL DATA

Ambient temperature: _____ max. +55°C

_____ min. -15°C

Power supply: _____ 24 ± 10% VAC, 50 Hz

_____ 230 ± 10% VAC, 50 Hz

Power consumption: _____ 5 VA

Enclosure rating: _____ IP 54

Protection class: _____ II

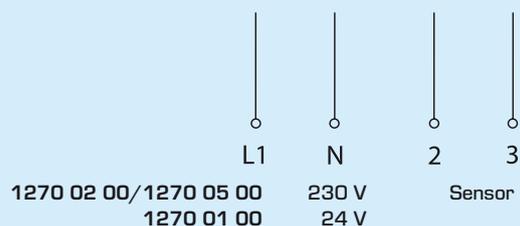
Torque: _____ See table

Weight: _____ 0.8 kg

CE LVD 2006/95/EC
EMC 2004/108/EC
RoHS 2002/95/EC

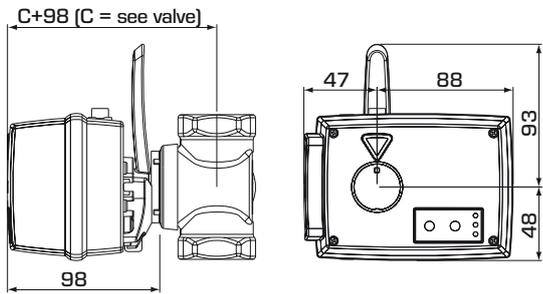
WIRING DIAGRAM

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

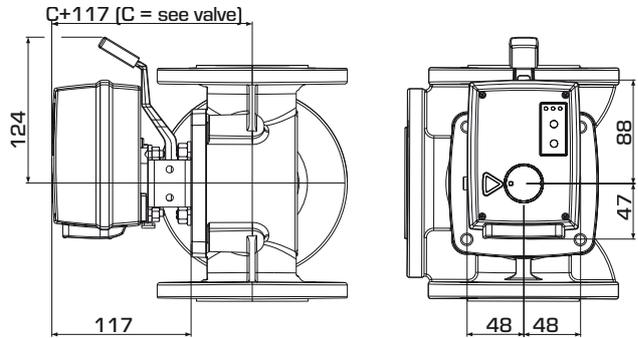


CONTROLLERS

CONTROLLER SERIES 90K



Installation dimensions for Controller Series 90K with ESBE VRG100, VRG200, VRG300 and VRB100 mixing valves



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

CONTROLLER SERIES 90K

Art. No.	Reference	Voltage [VAC]	Temp. range	Torque [Nm]	Running time 90° [s]	Operations
1270 01 00	92K2	24	15-70°C	15	60	Termistor
1270 02 00	94K2	230	15-70°C	5	15	Termistor
1270 05 00	99K2	230	15-70°C	15	60	Termistor

CONNECTING EXAMPLES

