

# ACTUATOR SERIES ALB100

ESBE series ALB is specially designed for applications which require a high resolution and high velocity.



3-point/Proportional

## OPERATION

ESBE series ALB is either controlled by a 3-point (increase/decrease) signal or by a proportional (0..10V, 2..10V) signal. Proportional control signal gives a fast actuator.

The electronic circuitry of the actuator ensures that the running time is the same, regardless of the stroke of the valve in question.

It is easy to mount and connect the actuator. It can be mounted directly onto ESBEs control valves, without any linkage kit.

The working range of the actuator is adjusted automatically depending on the stroke of the valve. The electronic circuitry of the actuator then takes care of the adjustment of the valve end positions.

## FUNCTION

– The actuator

The actuator receives a control signal from a controller. The screw transmits a linear movement which moves the stem of the valve.

– Manual operation

There is a manual operation handle on the actuator. When it is lowered, the motor stops. The actuator can then be operated manually if the handle is turned.

– Position feedback

The actuator is equipped with a 2–10V DC position feedback signal, where 2V always corresponds to the closed position and 10V to the open position.

– End position contacts

At sequence control the end position contacts could be used to switch entirely at closed respectively fully open positions.

## LINKAGE KITS

No linkage kits are required for the fitting to ESBE valves.

Adaptor kits for other valves are available as follows:

Siemens VVF 31, VXF 31, VVG 41, VXG 41, VVF 52, VVF 61, VXF 61, VVF 45, VVF 51, VXF 11, VVG 11, VFG 34 \_\_\_\_\_ Art. No. 2600 02 00

Satchwell VZ, VJE, VSF 15–50, VZF, MZF 65–150 \_\_\_\_\_ Art. No. 2600 08 00

## OPTIONS

End position contacts, 24 V: \_\_\_\_\_ Art. No. 2620 07 00

## SUITABLE CONTROL VALVES

- Series VLA121, VLA221, VLA131
- Series VLA325, VLA335, VLA425
- Series VLE122, VLE222, VLE132
- Series VLF125, VLF135, VLF335
- Series VLE325
- Series VLB225, VLB235
- Series VLC125, VLC225
- Series VLC325, VLC425

## TECHNICAL DATA

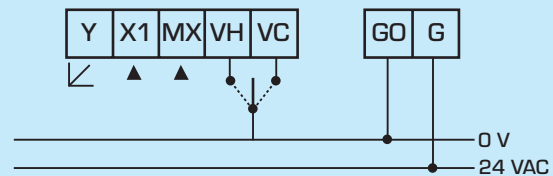
Supply voltage: \_\_\_\_\_ 24 VAC ±10%, 50/60 Hz  
 Power consumption: \_\_\_\_\_ 15 VA  
 Running time by proportional signal  
 Valve with stroke 10–25 mm: \_\_\_\_\_ 15 s  
 Valve with stroke 10–32 mm: \_\_\_\_\_ 20 s  
 Valve with stroke 10–52 mm: \_\_\_\_\_ 30 s  
 Running time by increase/decrease signal: \_\_\_\_\_ 300 s/60 s  
 Stroke: \_\_\_\_\_ 10–52 mm  
 Force: \_\_\_\_\_ 800 N  
 Duty cycle: \_\_\_\_\_ max. 20%/h  
 Output Y, Voltage: \_\_\_\_\_ 2–10 V (0–100%)  
 Ambient temperature: \_\_\_\_\_ -10°C – +50°C \*  
 Ambient humidity: \_\_\_\_\_ max. 90% RH  
 Enclosure rating: \_\_\_\_\_ IP 54

Material  
 Cover: \_\_\_\_\_ Plastic / Metal  
 Housing: \_\_\_\_\_ Aluminum  
 Weight: \_\_\_\_\_ 1.8 kg

\* If the actuator is used in applications with media temperatures below 0°C, the valve should be equipped with a stem heater.

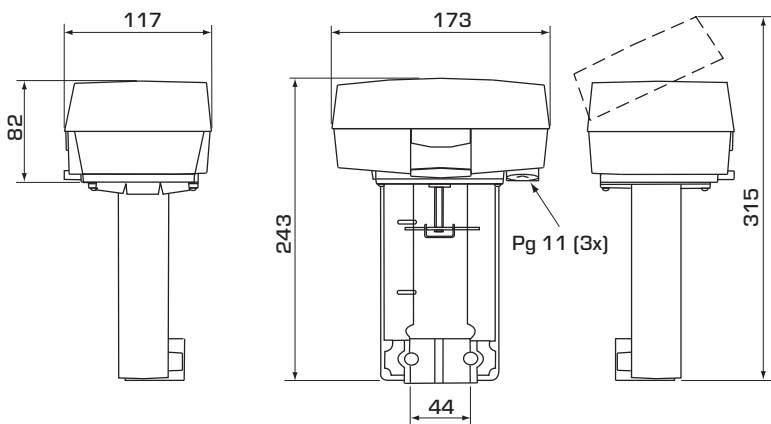
CE LVD 2006/95/EC  
 EMC 2004/108/EC  
 RoHS 2002/95/EC

## WIRING



Y = Feedback signal  
 X1 = Control signal  
 MX = Input neutral  
 VH/VC = Increase/Decrease  
 GO/G = Supply voltage

# ACTUATOR SERIES ALB100



## SERIES ALB144, PROPORTIONAL OR 3-POINT CONTROL SIGNAL 24 V AC

Art. No.	Reference	Supply voltage [V]	Force [N]	Power consumption [VA]	Note
2205 01 00	ALB144	24 V AC, 50/60Hz	800	15.0	1)

Note 1) 0...10 V, 2...10 V or 3-point control signal.