



Description

The AVC series provides floating or proportional control in HVAC applications. The compact design of this actuator makes it suitable for installation in confined spaces, such as fan coil, chilled ceiling, manifolds, etc. The AVC series actuator is designed for field mounting onto VB terminal unit valves. Due to the innovative concept of different strokes setting the AVC can be installed over most of the terminal unit valve in the market.

Technical specification

Power supply	230 VAC or 24 VAC/DC, 50-60 Hz
Power consumption	1,5 W for 24 VAC/DC, 2,2 W for 230 VAC
Signal input	0 (2)...10 V / 0 (4)... 20 mA selectable via dip-switches
Force	120 N +30% -20%
Action	floating and proportional
Max stroke	6,3 mm
Actuator speed	13 sec/mm
Connection	Metal ring M30 x 1.5
Cable	1,5 m cable length 3 x 0,35 mm ²
Maintenance	Free
Status indications	Internal LED
Protection degree	IP43
Working range RH	non-condensing
Working range °C	0...+50°C
Storage temperature	-20...+65°C
Standards	CE-conformity, RoHS



Models	Power supply	Action
AVC230	230 VAC	floating
AVC24	24 VAC	floating
AVC24M	24 VAC/VDC	proportional

LED indicator

AVC24 AVC230

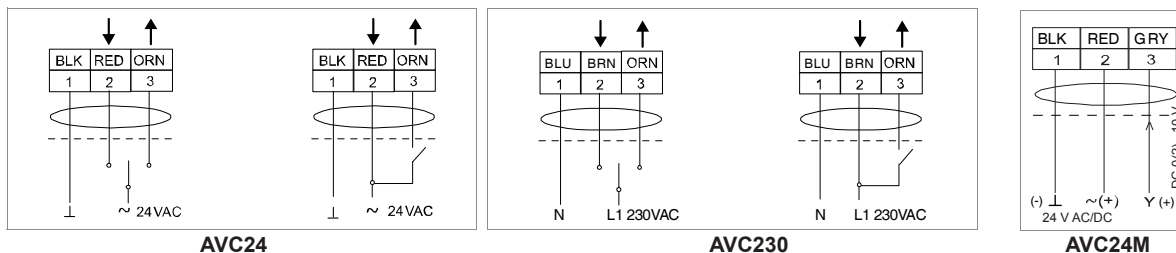
- • OFF
- • Green • Verde
- ◐ • Moving to Position
• In movimento verso la posizione
- ◑ • End stroke reached
• Fine corsa raggiunto

AVC24M

- • OFF
- • Green • Verde
- ◐ • Moving to Position
• In movimento verso la posizione
- ◑ • Position reached
• Posizione raggiunta
- • Red • Rosso
- ◐ • Power on Calibration
• Calibrazione in corso
- ◑ • 4-20mA / 2-10 VDC
• Failure signal loss
• Mancanza di segnale



Electrical wiring



At power up, the actuator automatically runs through its full stroke to detect and memorize the end limits. After calibration, it positions itself according to the control signal, with LED indicating operating status.

Settings for proportional version

ON	OFF	NO	NC
1	2	3	4
5	6	7	8
9			

0...10VDC 0...20mA	0...5VDC 5...10VDC
DA	RA
LIN	Eq%
VDC	mA

1: CONTROL SIGNAL RANGE	4: ACTION
2: RANGE	5: CURVE
3: SIGNAL TYPE	6: SIGNAL TYPE

 UMES Upper Mechanical End Stroke	 LMES Lower Mechanical End Stroke
2,8 mm 5,3 mm 5,8 mm	UMES 14,5 mm LMES 8,2 mm

DIP Switch 1, 2, 3, and 6: DIP switch 1, 2, and 3 allow the user to change the analog input ranges. To change from voltage analog input to current analog input set DIP switch 6 accordingly.

DIP Switch 4: DIP switch 4 allows the user to change the action of the actuator in relation to the analog input. DIP switch 4 is off (DA) when the signal increases and the actuator stem extends.

DIP Switch 5: DIP switch 5 allows the user to change the control characteristic of the actuator in order to obtain a combination of valve and actuator Linear or Almost Equal Percentage.

DIP Switch 5 OFF (Linear): When DIP switch 5 is set to Off, we recommend you use the valve with the linear or equal percentage control characteristic.

DIP Switch 5 ON (Almost Equal Percentage): When DIP switch 5 is set to On, we recommend you use the valve with the quick opening or on/off control characteristic.

Dimensions (mm)

