AVM234S: 2500N Actuator

(With analog SUT positioner) 2 point or 3 point control and analogue I/O signals

0-99.70.04-B



TECHNICAL DESCRIPTION

Power supply 230 V with modules or direct connection for 24 V~ or 24 V=; continuous activation also permissible at 230 V Two-part housing made of fire-retardant yellow plastic and seals to IP66.

Maintenance-free gearbox of sintered steel, gearbox plate of steel.

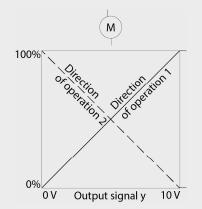
Patented actuator-valve coupling.

Mounting column made of stainless steel; mounting bracket (for fitting the valve) of aluminium

Electrical connections (max. 2.5 mm²) with screw terminals.

Three pre-scored cable inlets for M20×1.5 (2×) and M16×1.5.

Installation position: vertically upright to horizontal, but not upside down unless protected from dripping water.



Subject to change without notice.

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AREAS OF USE

For use with two or three-way control valves. For controllers with continuous output (0...10 V or 4...20 mA) or switching output (2-point or 3-point control.

HOW ENERGY EFFICIENCY IS IMPROVED

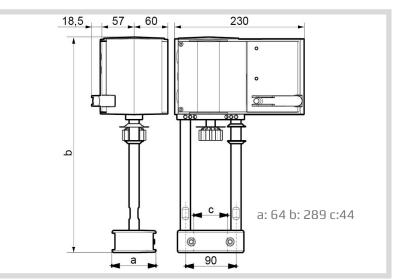
Automatic adaptation to valve, precision control and high energy efficiency with minimal operating noise.

FEATURES

- Pushing force of at least 2500 N
- Stepping motor with SUT (Superior Universal Technology) electronic control unit and electronic load-dependent cut-off
- Automatic detection of control signal applied (continuous or switching), indicated by two LEDs
- The type of characteristic (linear, quadratic or equal-percentage) can be set on the actuator
- Automatically adapts to valve stroke between 8 and 49 mm; captive even in the event of a power failure
- Direction of travel can be selected via screw terminals when making electrical connection or remotely
- Coding switches for selecting the characteristic and the running time (2, 4 or 6 s/mm)
- Lever for external manual adjustment, with motor cut-off, and for triggering a re-initialisation
- Easy assembly with valve; spindle is connected automatically when control voltage is applied

Туре	Positioning time (s/mm)	Nominal stroke (mm)	
AVM2345K002	2/4/6	49	

DIMENSION DRAWING





TECHNICAL DATA

Туре	Run time s/mm	Stroke mm	Pushing force N	Power suply ¹⁾	Weight kg
AVM 2345 K002	2/4/2006	840	2500	24 V~/=	4.1
Positioner: ¹⁾					
Control signal 1	010 V, R _i > 100 kΩ		Starting point U _n		0 or 10
Control signal 2	420 mA, R _i = 50 kΩ		Control span ΔU		10 V
Position feedback signal	010 V, load > 2.5 kΩ		Switching range Xsl	ו	300 mV
Devuer supply			Degree of protectio	-	
Power supply	24 V~ ±20 %, 5060 Hz 24 V= ±15%		Degree of protectio Protection class	n	IP 66 (EN 60529) III (IEC 60730)
with accessories	$230 V \sim \pm 15\%$ 5060 Hz		FIDLECLIDITCIASS		
			Response time for 3	3-point	200 ms
Power consuption	10 W 18 VA ²⁾				
Stroke	849 mm		Wiring diagram		A10357
Max temperature of medium	130 °C (option 240 °C) ³⁾		Dimension drawing		M10356
Permitted ambient temperature	-1055 °C		Fitting instructions		99.70.01
Permitted ambient humidity	< 95% rh without conversior	1	Material declaration	1	MD 51.377

Also for 2-point or 3-point depending on the connection for 24 V~
Design the transformers for this value, otherwise functional faults may occur.

3) If the temperature of the medium is higher (from 130 °C to 240 °C), an adaptor is required (see accessories)

CE conformity EMC Directive 2004/108/EC EN 61000-6-2 EN 61000-6-4

Low-Voltage Directive 2006/95/EC EN 60730-1 EN 60730-2-14

Over-voltage category III Degree of pollution III

ACCESSORIES

Туре	Description
1-0152285	Temperature adaptor for media temperature > 130 °C 240 °C
1-0152287	Potentiometer 1000 Ω , 1 W, 24 V; installation as per MV 505894
1-0152289	Auxiliary change-over contacts (2 pcs. each) 12250 V Infinitely variable, min. 100 mA and 12 V, addi- tional load 6(2) A, MV 505866
1-0152281	230 V Module, plug-in type , for 2-/3-point and continuous activation, additional power 2 VA 230 V 15% power supply, MV 505901, 50/60 Hz
1-0152287	115 V Module, plug-in type 50/60 Hz
1-0152627	4-20 mA Position feedback signal , for 24VAC/DC, output load resistor max. 600 ohm Accuracy +/- 5% of full range
1-0147655	Cable gland M20×1.5

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