Description

The electric actuator series S5..V for ball valves are used in heating, refrigeration and air conditioning systems.

- For valves from DN15 to DN32
- Power supply 24 VAC / DC and 230 VAC
- Function: open / closed or 3 point and proportional action
- Shaft dimension □ 9 mm square (fixed)
- Direction of rotation selectable by switch
- Actuator with 1 m connection cable
- Optional 1 adjustable SPDT auxiliary switch

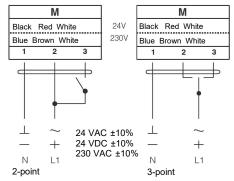


Technical specifications

Models		S5AV	S5BV	S5AMV				
Nominal torque	Nm		5					
Power supply	V	24 AC/DC ±10%	230 AC	24 AC/DC ±10%				
Frequency	Hz		50/60					
Power consumption								
- in operation	W		4.0					
- end position	W	2.0						
Rated power	VA	14						
Running time	s	6080						
Electrical connection		1 m PVC cable						
Auxiliary switch rating		3 (1.5) A / 250 VAC						
Sound power level	max. db (A)	40						
Control signal (input)		2-3 point	2-3 point	0(2)10 VDC				
Position signal (output)				010 VDC				
Life Cycle	rotations		60.000					
Angle of rotation		90° (95° mechanical limitation)						
Direction of rotation			CW / CCW					
Protection class		Ш	II	III				
Protection degree			IP54					
Working range °C		-20+50°C						
Working range RH		595% RH, non-condensing						
Storage temperature		-30+60°C						
Maintenance		free						
Weight	g	800						
Standards		CE-conformity, RoHs						
Option		suffix S for models with 1 SPDT auxiliary switch						

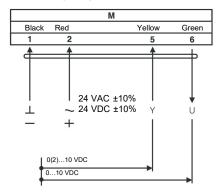
Electrical wirings

Wiring diagram S5AV / S5BV

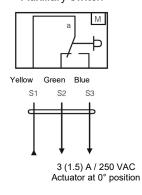


Connect via safety isolating transformer!

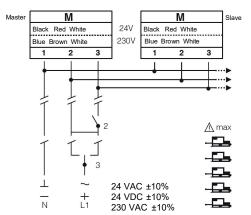
Wiring diagram S5AMV



Wiring diagram S5AV / S5BV Auxiliary switch

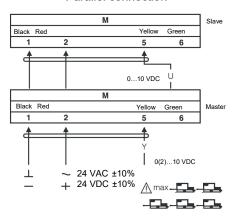


Wiring diagram S5AV / S5BV Parallel connection



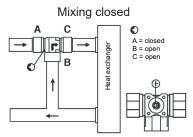
Parallel connection of maximum 5 S5..V (S1) actuators is possible. Power consumption must be observed!

Wiring diagram S5AMV Parallel connection

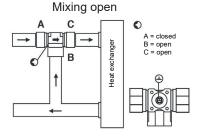


During parallel operation, the output signal (terminal 6, 0...10 VDC) of the master actuator must be connected to terminal 5 of the next slave actuator.

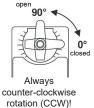
Installation



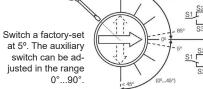
Ball valve actuators must operate CCW!



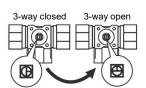




Auxiliary switch

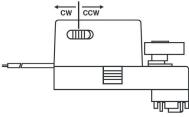


2-way closed 2-way open



95°

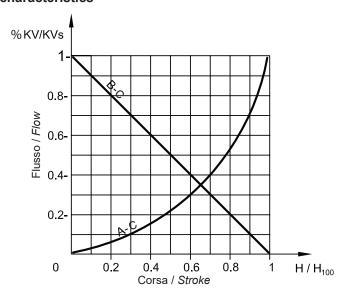
Change of rotation direction



Factory setting: clockwise (CW). Direction of rotation can be changed by toggling between CW/CCW switch on the actuator housing.



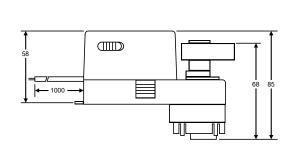
Control flow characteristics

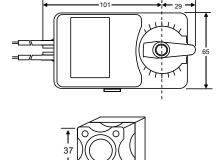


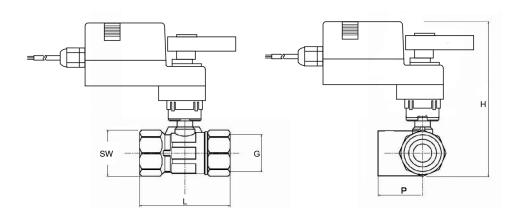
A-C equal-percentage way B-C bypass lineare way 3-way used as mixing inlet in A and B, outlet C 3-way used as diverting inlet in C, outlet from A and B

C way constant flow A way variable flow B (bypass) way variable flow

Dimensions (mm)







DN mm	G	L	Н	sw	Р	weight 2 way (kg)	weight 3 way (kg)
15	G 1/2	60	137	26	31	0,2	0,25
20	G 3/4	67	142	32	32	0,35	0,4
25	G 1"	89	148	39	46	0,55	0,7
32	G 1" 1/4	99	159	48	49	0,85	1,1