

# MVC


## New electro-mechanical actuator for globe valves and PICVs

- » **Electronic fail-safe actuator (with supercapacitor)**
- » 300 N force
- » Stepper motor for high precision and efficiency
- » **Fast opening/closing times:** 5,5 s/mm → 30 s on 5,5 mm stroke valves (speed adjustable in the Modbus model)
- » Self-stroking and self-adjusting on valves up to 12 mm stroke
- » **Modbus** connectivity (option)
- » M30x1.5 and M28x1.5 connections for globe valves and PICVs
- » **24 Vac/dc** power supply
- » Control signals: 0..10 V / 2..10 V / 0..5 V / 6..10 V / 4..20 mA
- » Feedback signal: 2..10 V
- » Diagnostic by LEDs and Modbus
- » 9 dip-switches for easy setting of all adjustable parameters
- » **IP54** protection
- » Manual override with allen key
- » Complete with 5 wires cable 1,5 m
- » Clear plastic front cover for visibility of LEDs and dip-switches configuration
- » **Fail-safe: one model provides both, stem up / stem down action, through jumper setting**



### MVC503R(M) TECHNICAL CHARACTERISTICS

<b>Power supply</b>	24 Vac/dc
<b>Speed</b>	5 s/mm
<b>Force</b>	300 N
<b>Fail-safe action</b>	with Supercap (45 s for a complete charge) and configurable parameters
<b>Emergency return speed</b>	3 s/mm
<b>Protection rating</b>	IP54
<b>Control signal</b>	0..10 Vdc, 2-10 Vdc, 0..5 Vdc, 6..10 Vdc, 4-20 mA
<b>Feedback signal</b>	2-10 Vdc
<b>Stroke</b>	Auto adaptive or fixed stroke
<b>Reference directives and standards</b>	EMC 2014/30/UE according to EN 61326-1:2013 LVD 2014/35/UE according to EN 61010

MODEL	CONTROL SIGNAL	POWER SUPPLY	MAX. STROKE	ELECTRONIC RETURN	CONNECTIVITY
MVC203	3 pos.	230 Vac	16 mm	No	No
MVC403		24 Vac			
MVC503	Proportional	24 Vac/dc	12 mm	Yes	No
MVC503R	Proportional				
MVC503RM					

**Fast opening/closing times**, emergency return with Supercap, self-stroking capability make MVC503R an ideal actuator to motorize a variety of control valves, for example:

- » Push & pull action on globe valves without spring up to 12 mm stroke and DN50
- » Push action on globe valves and PICVs with spring return and fixed stroke between 2,5 and 6,5 mm

for PICVs  
up to 1 ½"  
(4000 l/h)



For bronze globe valves  
2TBB.T & 3TBB.T  
up to 2" (Kvs 38)



For cast iron globe valves  
VSB.T & VMB.T  
up to 2" (Kvs 25)

