

Position Regulator for single acting actuators

- Suitable for linear and rotation valves
- Provided with a Mounting-kit for mounting on different process valves
- For single acting normally open or normally closed valves
- Cable connection through 8 pole- M12x1 connector
- Protection class IP67
- Simple use and operation
- Easy startup
- No air consumption when idle



Valcotec 4....20mA Position Regulator SVPR 1001 for single-acting actuators stroke length 30 mm max.

equipped with:

- 2 3/2-way solenoid valves
- Electronic-module with LED-indications,
- Position initiator for 16 positions: open to closed
- Network-connection:8-Pole M12x1 round plug connector
- Spring return piston
- 2 Air-connections for 6,0mm air hose
- Feedback position OK and Fault
- Feedback 4-20mA (expected 06-2009)

NEW



Valcotec 4....20mA Position Regulator SVPR 2001 for single-acting actuators stroke length 60 mm max.

equipped with:

- 2 3/2-way solenoid valves
- Electronic-module with LED-indications,
- Position initiator for 16 positions: open to closed
- Network-connection:8-Pole M12x1 round plug connector
- Spring return piston
- 2 Air-connections for 6,0mm air hose
- Feedback position OK and Fault
- Feedback 4-20mA (expected 06-2009)

NEW



Valcotec 4....20mA Position Regulator SVPR 2301 for single-acting Namur actuator angle of rotation 90°

equipped with:

- 2 3/2-way solenoid valves
- Electronic-module with LED-indications,
- Position initiator for 16 positions: open to closed
- Network-connection:8-Pole M12x1 round plug connector
- 2 Air-connections for 6,0mm air hose
- Feedback position OK and Fault
- Feedback 4-20mA (expected 06-2009)

NEW






Valcotec 4....20mA Position Regulator Test tool for SVPR serie's SVTT2010

equipped with:

- Electronic-module with LED-indications,
- 4.....20mA output
- Lcd display readout mA
- Network-connection:8-Pole female M12x1 round plug connector
- LED Feedback position OK
- LED Feedback Fault
- Readout on Lcd display Feedback 4-20mA (expected 06-2009)

NEW



Technical Data	SVPR 1001	SVPR 2001	SVPR 2301
			
Material	Pom (black) Polycarbonate, (transparent brown) NBR	Pom (black) Polycarbonate, (transparent brown) NBR	Pom (black) Polycarbonate, (gray) NBR
Supply Voltage	24 VDC ±10%	24 VDC ±10%	24 VDC ±10%
Ripple	10%	10%	10%
Setpoint setting	4 to 20 mA	4 to 20 mA	4 to 20 mA
Input resistance	60 Ohm	60 Ohm	60 Ohm
Electrical connection			
Multipole connection	M12x1 (8-pole) connector	M12x1 (8-pole) connector	M12x1 (8-pole) connector
Feedback			
Pos. OK (digital)	24VDC / 1A max.	24VDC / 1A max.	24VDC / 1A max.
Fault (digital)	24VDC / 1A max.	24VDC / 1A max.	24VDC / 1A max.
Position detection module	Linear potentiometer	Linear potentiometer	Linear potentiometer
Hysteresis	< 1,0%	< 1,0%	< 1,0%
Repeatability	± 0,5%	± 0,5%	± 0,5%
Accuracy	< 0,3%	< 0,3%	< 0,3%
Options in preparation	Analogue position feedback 4-20mA	Analogue position feedback 4-20mA	Analogue position feedback 4-20mA
Power consumption	± 2,1 Watt	± 3,9 Watt	± 2,1 Watt
Stroke range Valve spindle	3 to 30 mm	3 to 60 mm	90° rotation
Solenoid valve type	3/2-way NO + NC	3/2-way NO + NC	3/2-way NO + NC
Power consumption [Vdc/W]	24Vdc / 0,1 Watt	24Vdc / 1 Watt	24Vdc / 0,1 Watt
Response time [<ms]	5	15	40
Orifice [mm²] / QNn [l/min]	0,11 / 0,076	1,2 / 40	4,5 / 195 @5bar
Seal-material	NBR	NBR	NBR
Supply pressure	0,15....7 bar max.	0.....10 bar max.	0,15.....7 bar max.
Control medium	Neutral gases, air DIN ISO 8573-1	Neutral gases, air DIN ISO 8573-1	Neutral gases, air DIN ISO 8573-1
Dust concentration	Class 3 (<5µm particle size)	Class 3 (<5µm particle size)	Class 3 (<5µm particle size)
Particle density	Class 3 (<5mg/m³)	Class 3 (<5mg/m³)	Class 3 (<5mg/m³)
Pressure condensation point	Class 3 (<-20°C)	Class 3 (<-20°C)	Class 3 (<-20°C)
Oil concentration	Class 1 (< 0,01mg/m³)	Class 1 (< 0,01mg/m³)	Class 1 (< 0,01mg/m³)
Air input filter	-Install air filters close to valve at their upstream side. A filtration degree of 5 µm or less should be selected		
Install an air dryer, after cooler or Drain Catch, etc	-Air that includes excessive drainage may cause malfunction of valves and other pneumatic equipment. To prevent this, install an air dryer, after-cooler or water separator,etc		
If excessive carbon powder is seen, install a mist separator on the upstream side of the valve	-If excessive carbon dust is generated by the compressor, it may adhere to the inside of valves and cause malfunction		
Pilot air ports	1/8" G / plug-on fitting 6.0	1/8" G / plug-on fitting 6.0	1/8" G / plug-on fitting 6.0
Ambient temperature	-10.....+50°C (no freezing.)	-10.....+50°C (no freezing.)	-10.....+50°C (no freezing.)
Protection class	3 according to VDE 0580	3 according to VDE 0580	3 according to VDE 0580
Type of protection	II 3G Eex nA IIB T4x (zone 2 / Devision 2)	II 3G Eex nA IIB T4x (zone 2 / Devision 2)	II 3G Eex nA IIB T4x (zone 2 / Devision 2)
IP protection class	IP 67	IP 67	IP 67
Installation	As required, preferably with actuator in upright position	As required, preferably with actuator in upright position	As required, preferably with actuator in upright position
General			
Interference output EMC	EN 50081 - 1	EN 50081 - 1	EN 50081 - 1
Interference resistance EMC	EN 50081 - 2	EN 50081 - 2	EN 50081 - 2
Display Power	LED Green	LED Green	LED Green
Display Pos. OK	LED Green	LED Green	LED Green
Display Fault	LED Red	LED Red	LED Red
Display Valve-position	8x LED Yellow	8x LED Yellow	8x LED Yellow
Display solenoid valves	2x LED Yellow	2x LED Yellow	2x LED Yellow
Outputs			
2x digital	SVPR 1001-10	SVPR 2001-10	SVPR 2301-10
2x digital and 4-20mA (4-20mA output in preparation)	SVPR 1001-11	SVPR 2001-11	SVPR 2301-11