

Multi-signal Control Actuators for VP222x SmartX PIBCV, DN200...250 (8...10")



Product Description

The MP4000 Actuator is primarily designed to regulate valves in response to the demand of a controller in HVAC systems. MP4000 can be controlled by electronic controllers with modulating or 3-point control output.

Specifications

Please check power supply and power consumption prior connection.

Part Number	MP4000
Power supply	24 Vac/Vdc (+10, -15%)
Power consumption	15 VA (24 V)
Frequency (Hz)	50/60 Hz
Control input Y	0...10 Vdc (2...10 Vdc) Ri = 100kΩ, 0...20 mA (4...20 mA) Ri = 500Ω
Control output U (Position Feedback)	0...10 Vdc (2...10 Vdc) 2kΩ, 0...20 mA (4...20 mA) 550Ω
Close off force	4000 N (899.23 lbf)
Max. stroke	80 mm (3.14 in.)
Speed (selectable)	3 s/mm or 6 s/mm
Max. spindle travel	80 mm (3.14 in.)
Max. medium temperature	200 °C (392°F)
Ambient temperature	0 ... + 55 °C (32...131 °F)
Storage and transport temperature	-40 ... +70 °C (-40...158 °F) (storing for 3 days)

Features

- Manual operation mechanical and/or electrical
- Position indication, LED signalization
- Selectable speed 3 s/mm or 6 s/mm
- Automatic adaptation of stroke to valve's end positions that reduces commissioning time (self-stroking)
- Integrated external switch
- Characteristic optimization
- Adjustable stroke limitation
- Anti-oscillation function
- Pulse or continuous output signal (K2, K4)
- Voltage or current output signal U
- External reset button
- Auto detection of Y signal
- 3-point floating or modulating control selection
- Galvanic isolation Y, U and output terminal K2, K4
- Thermic and overload protection
- Precise regulation and fast response on 3-point signal (0.01 s)

Humidity	5...95%
Protection class	II
Grade of enclosure	IP 54, NEMA 2
Electrical connection	conduit
Weight (kg)	7.5 (16.53 lbs)
Manual operation	Electrical and mechanical
Power failure response	Stem remains in last position
Standards	
Heat	IEC 60068-2-2
Humidity	IEC 60068-2-3
Cold	IEC 60068-2-1
Vibration	IEC 60068-2-6
Regulatory Standards	c-UL-us LISTED mark compliance per UL 60730-1 & -2-14 and CAN/CSA E60730-1 & -2-14. CE mark compliance per directives [2014/35/EU] LVD, [2014/30/EU] EMC, and [2011/65/EU] RoHS2. RCM mark compliance for Australia/New Zealand community.