



Type 1005V

Electronic Vacuum Regulator

The Type 1005V Electronic Vacuum Regulator is a compact, closed-loop electro-pneumatic regulator designed to convert an electrical command signal into precise vacuum pressure. The regulator uses two solenoid valves, an internal pressure transducer, and an electronic control board with PID feedback to continuously maintain the target vacuum level.

One solenoid valve opens the vacuum inlet to withdraw air from the controlled system, while the second acts as a vacuum breaker to reduce vacuum when required. The internal pressure transducer measures the actual vacuum level and sends feedback to the electronic controls, which automatically operate the valves until the commanded vacuum is achieved.

With a vacuum range of 0 to -14.5 psig, flow capacity up to 22 scfm, analog input and monitor options, an IP65-compliant enclosure, and a supplied M12 cable, the Type 1005V is well suited for automated vacuum control in industrial equipment, test systems, material handling, and OEM machinery.

Features

- Electronic closed-loop vacuum control
- PID feedback maintains the commanded vacuum level
- Dual-solenoid vacuum inlet and vacuum-breaker design
- Internal pressure transducer provides continuous feedback
- Vacuum range from 0 to -14.5 psig
- Accepts 0-10 VDC or 4-20 mA control signals
- Multiple analog monitor output options
- Flow capacity up to 22 scfm at full open
- Response time of 0.8 seconds
- High repeatability and linearity
- IP65-compliant construction
- Suitable for wet or dirty industrial environments
- M12 electrical connection
- Two-meter M12 cable supplied separately.
- Available with NPT or BSP porting
- Optional kPa display

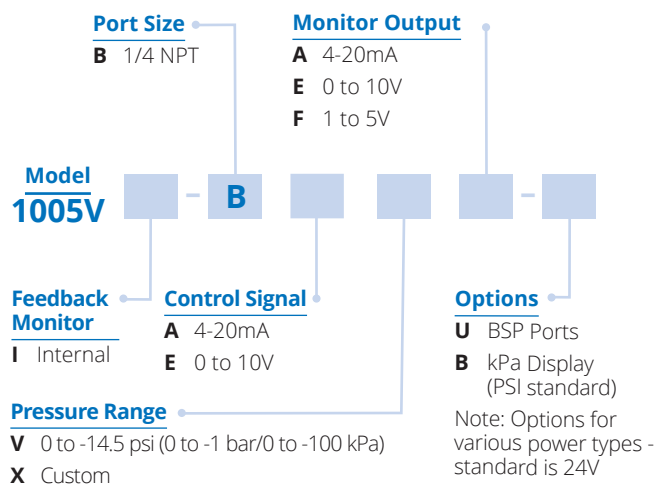


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Performance Characteristics

Vacuum Range	0 to -14.5 psig (0 to -1 bar / 0 to -100 kPa)
Control Input Signals	0-10 VDC or 4-20 mA
Monitor Outputs	0-10 VDC, 4-20 mA, or 1-5 VDC
Power Supply	24 VDC standard
Voltage Input Impedance	10 kOhm
Current Input Impedance	250 ohms
Electrical Connection	M12
Response Time	0.8 seconds
Ambient Temperature	32°F to 158°F (0°C to 70°C)
Port Size	1/4" NPT
Repeatability	±0.1% full scale
Hysteresis	±0.3% full scale
Linearity	±0.1% full scale
Accuracy	±0.5% full scale
Flow Rate	22 scfm (640 L/min) at full open
Operating Media	Clean, dry, oil-free instrument air filtered to 5 microns
Weight	1.21 lbs (0.55 kg)

Ordering



Accessories

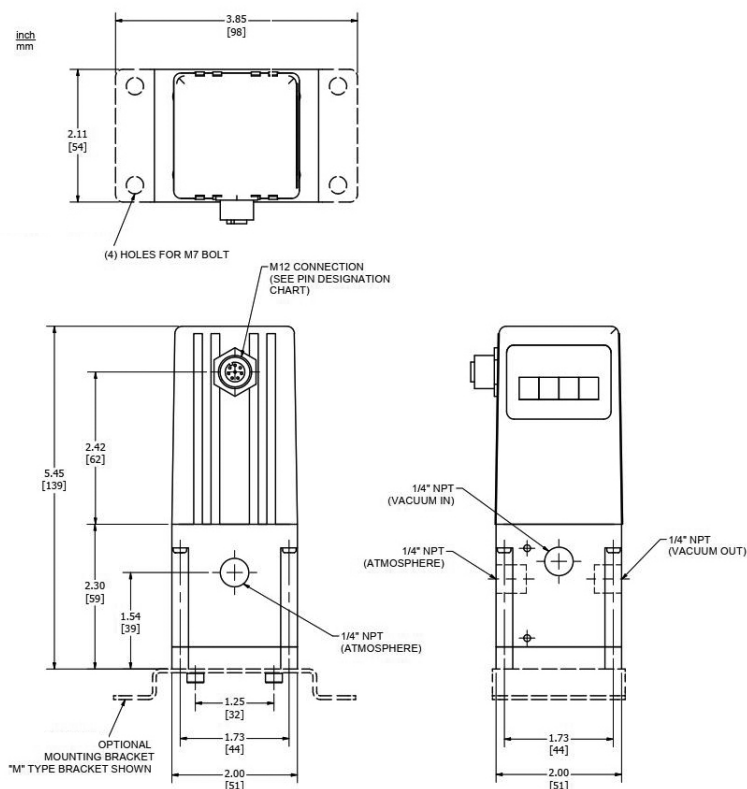
Cable:	6 foot (2 meter) M12 right angle cable
P/N:	445-919-013

Bracket Kits:

'L' type P/N: 449-542-055

'M' type P/N: 449-542-059

Dimensions



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8 Columbia Drive / Amherst, NH 03031 USA / www.controlair.com
sales@controlair.com / 603-886-9400 / FAX 603-889-1844

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