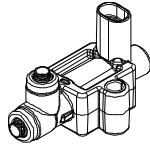


Next Generation Solenoid Valve



GT Development has developed a new family of solenoid air valves specifically for severe-duty, high-temperature applications up to 125 °C (250 °F) continuous duty.

New EPA regulations scheduled for 2007 require higher turbo boost pressures and are expected to create a hotter overall engine compartment. Cooling systems will be re-designed to dissipate as much of this heat as possible. Anticipating the need for more robust component parts on and around the engine, GT's new family of valves is targeted at a particularly demanding application, the fan clutch solenoid valve. These valves, mounted in the engine compartment, are continuously energized in most installations. In this 'worst case' scenario, GT's new valves show exceptional ruggedness and excellent performance.

Performance

Application	Three-way normally open and normally closed solenoid operated air valve designed for continuous duty under-hood, and chassis applications.
Operating Temperature	-40° – 257° F (-40° – 125° Celsius)
Operating Voltage	9 to 16 volts
Drop Out Voltage	0.5 volts
Power	0.30 amps at 12 volts, 68° F
Resistance	40Ω ± 10% at 68° F
Pressure Rating	60 to 150 PSIG (4.14 to 10.34 bars)
Flow Rate	2.76 SCFM minimum at 120 PSIG (8.27 bars)
Equivalent Orifice	0.047 diameter (CV = 0.042)
Leakage	Less than 20 SCCM
Air Connections	<ul style="list-style-type: none"> - Integral ¼" push-to-connect fittings - NTA fittings - Push-to-connect positional mounted 90 degree elbow

Next Generation Solenoid Valve



Performance

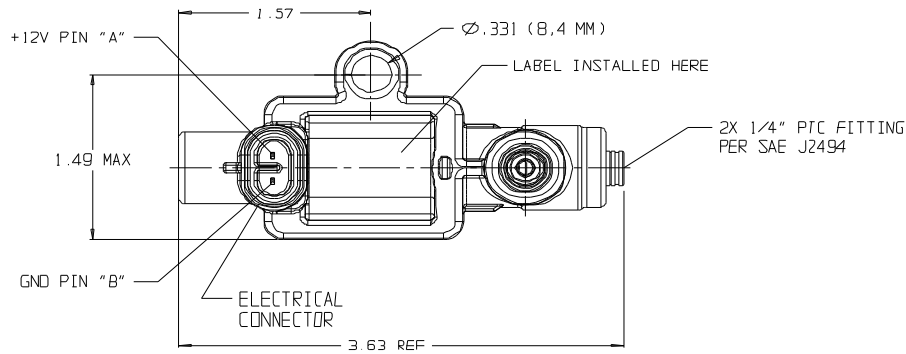
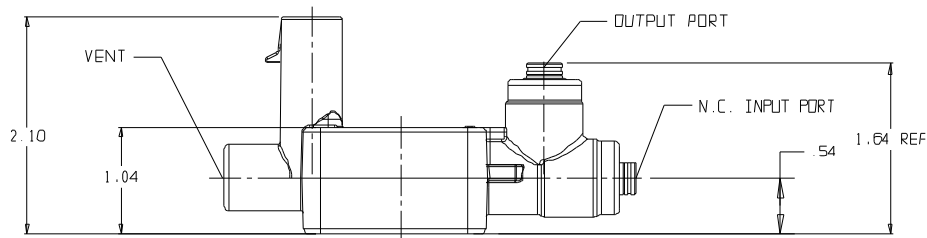
Electrical Connections Male 150 series connector to mate with Packard electric metri-pack 150 sealed connector, part number 12052641.

Mounting One 5/16" or 8mm bolt.

GT Part Numbers 5030-111 (Three-way NC, PTC fittings), 5030-211 (Three-way NO, PTC fittings), Additional configurations available. Contact GT technical support for assistance.

Part Marking Part labeled with GT part number and date code.

Drawings

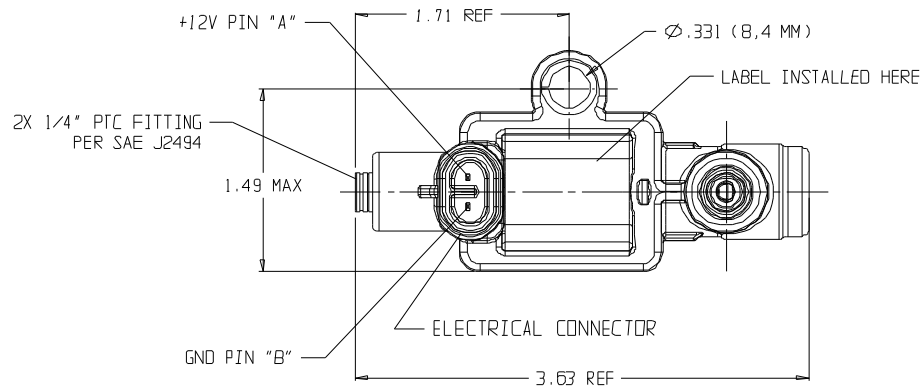
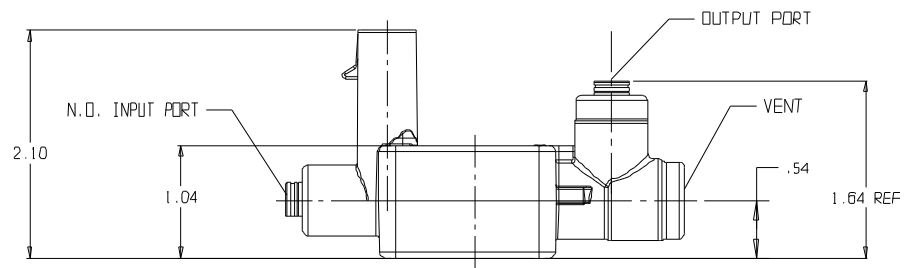


5030-111: Normally Closed, Three-way Push-to-Connect Valve

Next Generation Solenoid Valve



Drawings



5030-211: Three-way, Normally Open, Push-to-Connect Valve