

Next Generation Solenoid Valve 5030 Series

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

2007 EPA regulations required higher turbo boost pressures creating a hotter overall engine compartment. Cooling systems are designed to dissipate as much of this heat as possible. These valves anticipate the need for more robust component parts on and around the engine, targeting a particularly demanding application, the fan clutch solenoid valve. These valves, mounted in the engine compartment, are continuously energized in most installations.

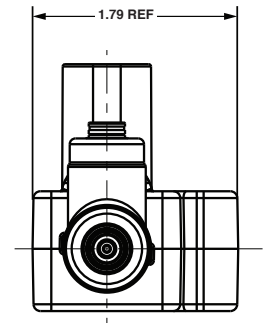
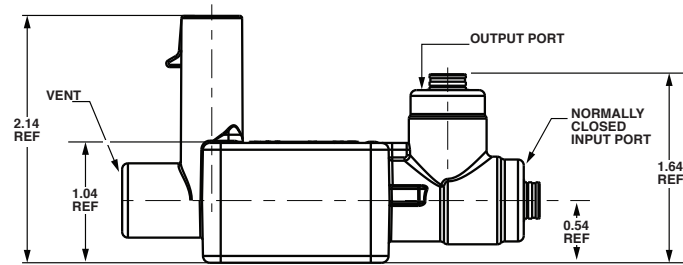
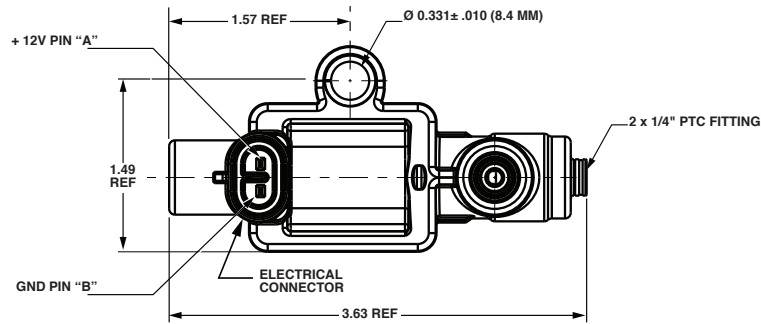


Performance

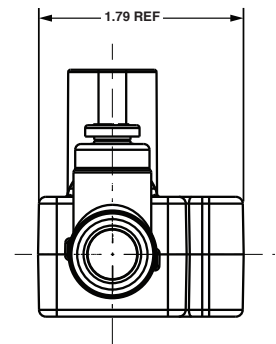
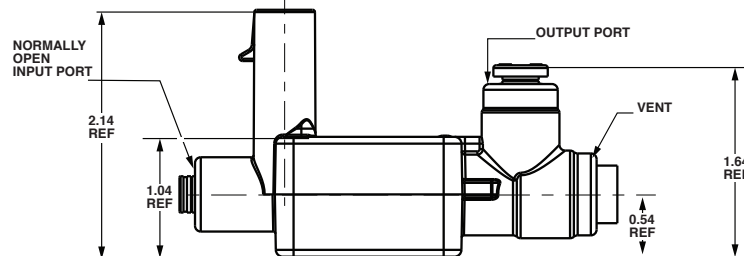
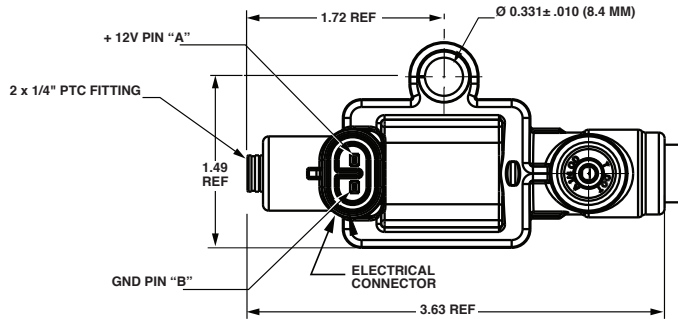
Application	Three-way normally open and normally closed solenoid operated air valve designed for continuous duty under-hood, and chassis applications. 5030-310B designed for intermittent air horn operation.
Operating Temperature	-40°F- 257°F [-40°C- 125°C] -40°F to 200°F (5030-310B)
Operating Voltage	9 to 16 volts
Drop Out Voltage	0.5 volts
Power	0.30 amps at 12 volts, 68° F 0.89 amps at 16 volts, 68°F (5030-310B)
Resistance	40 Ohms ± 10% at 68°F 20 Ohms ± 10% at 68°F (5030-310B)
Pressure Rating	60 to 150 PSIG (4.14 to 10.34 bars)
Flow Rate	2.76 SCFM minimum at 120 PSIG (8.27 bars) 9.0 SCFM minimum at 120 PSIG (8.27 bars) (5030-310B)
Equivalent Orifice	0.047 diameter (CV = 0.042) 0.085 diameter (CV=0.14) (5030-310B)
Leakage	Less than 20 SCCM
Air Connections	Integral 1/4" push-to-connect fittings (meets SAE J2494-3, and DOT FMVSS 571-106)
Electrical Connections	Male 150 series connector to mate with Packard electric metri-pack 150 sealed connector, part number 12052641. 150 female terminals (5030-310B)
Part Numbers	5030-111 (Three-way NC, PTC fittings) 5030-211 (Three-way NO, PTC fittings) 5030-310B (Two-way NC, PTC fittings)
Mounting	One 5/16" or 8mm bolt.
Part Marking	Part labeled with part number and date code.

Dimensions (Inches)

5030-111



5030-211



Warning

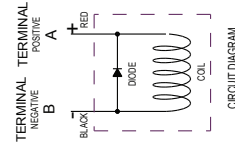
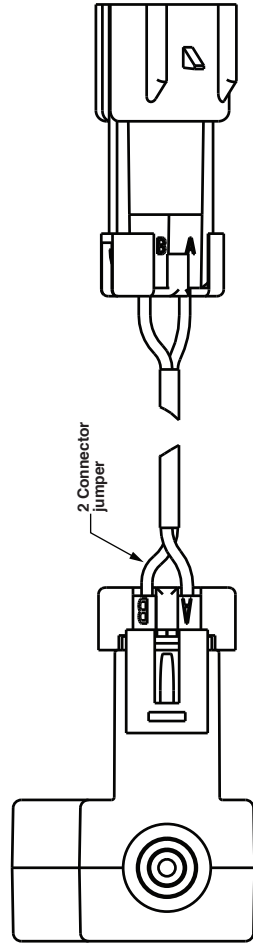
Improper selection, misuse, age or malfunction of components used in commercial vehicle systems can cause failure in various modes. The system designer is warned to consider the failure modes of all component parts used in commercial vehicle systems and to provide adequate safeguards to prevent personal injury or damage to equipment or property in the event of such failure modes. System designers and end users are cautioned to consult instruction sheets and specifications available from the factory. The system designer/end user is responsible for verifying that all requirements for the application are met.

Warranty

The products described herein are warranted subject to seller's Standard Terms and Condition of Sale, available at seller's website.

Dimensions (Inches)

5030-310B



WIRE SCHEMATIC
A to B
B to A

