Norgren GT Development introduced its first solenoid valve in the early 1980's, and saw it become an industry standard for fan clutch control applications. Since then, GT has made ongoing improvements to the packaging of the product, offering a wide variety of electrical and pneumatic configurations tailored to unique customer requirements.

### Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Solenoid air valve, 12 volt with Diode, 1/8-27 NPTF</td>
</tr>
<tr>
<td>Exposure Temperature</td>
<td>200°F max. (energized)</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>12 volt nominal (11-16 volts operating)</td>
</tr>
<tr>
<td>Drop Out Voltage</td>
<td>1 volt drop out minimum</td>
</tr>
<tr>
<td>Power</td>
<td>6 Watts nominal power</td>
</tr>
<tr>
<td>Resistance</td>
<td>11 volts max. pull-in @ 150 psig, 200°F</td>
</tr>
<tr>
<td>Pressure Rating</td>
<td>150 PSIG (10.34 bars)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>0.0035 lbs/sec (2.77 SCFM) minimum with 120 PSIG inlet pressure</td>
</tr>
<tr>
<td>Equivalent Orifice</td>
<td>0.047 diameter ( \text{cd} = 0.65 )</td>
</tr>
<tr>
<td>Leakage</td>
<td>Less than 20 SCCM</td>
</tr>
<tr>
<td>Air Connections</td>
<td>1/8-27 NPTF</td>
</tr>
<tr>
<td>Electrical Connections</td>
<td>5025-1: Machined crimped and soldered, Packard Weather Pack sealed connector</td>
</tr>
<tr>
<td></td>
<td>85020-0: Stripped 7/32&quot;</td>
</tr>
<tr>
<td>Transient Suppression</td>
<td>Rectifier diode IN40041 (5025-1)</td>
</tr>
<tr>
<td>Materials</td>
<td>Steel body, brass manifold, Viton seats</td>
</tr>
</tbody>
</table>

### Accessories

#### Inline Filter

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Port Size</th>
<th>Filter Element</th>
<th>Thread Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5050</td>
<td>1/8&quot;-27</td>
<td>180 µm</td>
<td>NPTF</td>
</tr>
</tbody>
</table>

#### Exhaust Vent Shield

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Port Size</th>
<th>Thread Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5060-1</td>
<td>1/8&quot;-27</td>
<td>NPT</td>
</tr>
</tbody>
</table>
Dimensions (Inches)

85020-1

- **Outlet (Cylinder) Port:** 1/8-27 NPTF
- **N.C. Inlet Port:** 1/8-27 NPTF
- **Leads Radially Aligned:** ±45° to NC Inlet
- **N.O. Inlet Port:** 1/8-27 NPTF
- **16 Gage Wire, White Stripped 7/32'', 2 Pl**

GT Date Code on Any Blank Flat

- **3-5/16''**
- **13/16 Hex**
- **15/16**
- **1-15/32**
- **31/32**
- **1.0 REF**
- **27±1**
- **∅.406 +.000 -.006**
- **1-5/32**

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Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document.

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Dimensions (Inches)

5025-1

RED DOT IDENTIFIES N.C. INLET

OUTLET (CYLINDER) PORT 1/8-27 NPTF

N.O. INLET PORT 1/8-27 NPTF

16 GAGE WIRE, RED

16 GAGE WIRE, BLACK

.406 +.000 -.006

1-5/32

1-15/32

32/32

15/16

9 ± 1

1.0 REF

13/16 HEX

3-3/8

TERMINAL NEGATIVE B

TERMINAL POSITIVE A

DIODE

COL.

CIRCUIT DIAGRAM

Packard P/N Item QTY
12015323 SEAL 2
12124582 TERMINAL, MALE 2
12010973 CONNECTOR, W/P 1

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.