Pneumatic Directional Control Solenoid Valves – AVS-5 Series

NITRA™ pneumatic AVS-5 series directional control solenoid valves are body ported 5-port (4-way) spool valves. Available port sizes are 1/8", 1/4", 3/8" or 1/2" NPT with flow coefficients (Cv) from 0.50 to 2.79. Models are available with single solenoid, spring return or double solenoid 2-position operation. In addition, double solenoid models are available with 3-position, center closed or center exhaust operation. Solenoid coils are available in either 24VDC or 120VAC control voltages. The AVS-5 series can be used in individual valve applications or multiple valves can be field assembled on AM-5 series manifolds simplifying piping connections. AM-5 series manifolds are available in 2, 4, 6 or 8 stations. The DIN style wiring connector includes LED indication of the solenoid coil status.

Features

- Body ported, 5-port (4-way) spool valves
- 1/8", 1/4", 3/8" or 1/2" NPT ports
- 2-position, single solenoid normally closed, spring return; 2-position, double solenoid, energize open/energize closed; 3-position, double solenoid center closed or center exhaust
- 24VDC or 120VAC solenoid coils
- DIN style wiring connector with LED indication
- Single valve or multiple manifold mounted valve applications
- Locking manual operator
- 2 year warranty

### AVS-5 Series Specifications

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For the latest prices, please check AutomationDirect.com.

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<tr>
<td>Diagram</td>
<td>C</td>
<td>D</td>
<td>C</td>
<td>D</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
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</tr>
<tr>
<td>Port Size</td>
<td>In/Out/Exhaust=1/4&quot;</td>
<td>In/Out=3/8&quot;, Exhaust=1/4&quot;</td>
<td></td>
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<tr>
<td>Orifice Size</td>
<td>18mm² (Cv=1.0)</td>
<td>50mm² (Cv=2.79)</td>
<td>30mm² (Cv=1.68)</td>
<td></td>
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</tr>
<tr>
<td>Fluid</td>
<td>Air (to be filtered by 40µ filter element)</td>
<td></td>
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<tr>
<td>Pressure</td>
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</tr>
<tr>
<td>Working</td>
<td>20–115 psi, (0.15–0.8 MPa), (1.5–8.0 bar)</td>
<td></td>
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<tr>
<td>Proof</td>
<td>215 psi, (1.48 MPa), (14.8 bar)</td>
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<tr>
<td>Voltage (VAC @ 50/60 Hz)</td>
<td>24VDC center closed double solenoid</td>
<td>120VAC center closed double solenoid</td>
<td>24VDC center exhaust double solenoid</td>
<td>120VAC center exhaust double solenoid</td>
<td>24VDC center closed double solenoid</td>
<td>120VAC center closed double solenoid</td>
<td>24VDC center exhaust double solenoid</td>
<td>120VAC center exhaust double solenoid</td>
<td>24VDC center closed double solenoid</td>
<td>120VAC center closed double solenoid</td>
<td>24VDC center exhaust double solenoid</td>
<td>120VAC center exhaust double solenoid</td>
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<tr>
<td>Power Consumption</td>
<td>DC: 3.0W</td>
<td>AC: 4.5 VA; continuous duty (100% ED)</td>
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</tr>
<tr>
<td>Max Frequency</td>
<td>3 cycles/sec</td>
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<tr>
<td>Operating Life</td>
<td>50,000,000 cycles</td>
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<tr>
<td>Min Response</td>
<td>0.05 sec</td>
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<tr>
<td>Temperature</td>
<td>-5<del>60°C (23</del>140°F)</td>
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<tr>
<td>Lubrication</td>
<td>Not Required</td>
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<tr>
<td>Protection</td>
<td>IP65 (DIN40050)</td>
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<tr>
<td>Connection</td>
<td>11mm DIN Terminal</td>
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</tr>
<tr>
<td>Body</td>
<td>Aluminum Alloy</td>
<td></td>
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<tr>
<td>Agency Approvals</td>
<td>Solenoid CE marked; RoHS</td>
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</tr>
</tbody>
</table>

### Dimensions

**AVS-5111, AVS-5211, AVS-5212, AVS-5312, AVS-5313, AVS-5414**

**DIMENSION TABLE**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVS-5111</td>
<td>99.4 (3.91)</td>
<td>55.0 (2.17)</td>
<td>27.0 (1.06)</td>
<td>18.0 (0.71)</td>
</tr>
<tr>
<td>AVS-5211</td>
<td>117.1 (4.61)</td>
<td>66.7 (2.63)</td>
<td>35.0 (1.38)</td>
<td>22.0 (0.87)</td>
</tr>
<tr>
<td>AVS-5212</td>
<td>117.1 (4.61)</td>
<td>66.7 (2.63)</td>
<td>35.0 (1.38)</td>
<td>22.0 (0.87)</td>
</tr>
<tr>
<td>AVS-5312</td>
<td>134.9 (5.31)</td>
<td>69.2 (2.72)</td>
<td>46.0 (1.80)</td>
<td>27.0 (1.06)</td>
</tr>
<tr>
<td>AVS-5313</td>
<td>134.9 (5.31)</td>
<td>69.2 (2.72)</td>
<td>46.0 (1.80)</td>
<td>27.0 (1.06)</td>
</tr>
<tr>
<td>AVS-5414</td>
<td>168.4 (6.63)</td>
<td>74.0 (2.91)</td>
<td>56.0 (2.19)</td>
<td>34.0 (1.34)</td>
</tr>
</tbody>
</table>

*See our website www.AutomationDirect.com for complete Engineering drawings.*
Pneumatic Directional Control Solenoid Valves – AVS-5 Series

Dimensions

mm [inches]

AVS-5121, AVS-5221, AVS-5222, AVS-5322, AVS-5323, AVS-5424

AVS-513xx, AVS-523xx, AVS-533xx, AVS-543xx

See our website www.AutomationDirect.com for complete Engineering drawings.

For the latest prices, please check AutomationDirect.com.
**Exhaust Silencers**

**NITRA™** exhaust silencers are available in three styles and nine popular NPT and BSPT sizes. Add these to the exhaust ports of **NITRA** directional control solenoid valves to reduce noise.

### Features
- Inch and metric sizes available
- Bronze cone and flat styles
- Plastic cylindrical
- Maximum pressure = 150 psi (10 bar)

#### NITRA™ Bronze Cone Silencers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>A</th>
<th>CH</th>
<th>D1</th>
<th>D2</th>
<th>F</th>
<th>H</th>
<th>L</th>
<th>N</th>
<th>Package Weight (lb)</th>
<th>Qty. per pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBC-18N</td>
<td>$2.50</td>
<td>MNPT 1/8</td>
<td>0.47</td>
<td>0.32</td>
<td>0.28</td>
<td>0.24</td>
<td>0.94</td>
<td>0.94</td>
<td>0.55</td>
<td>0.16 (4.0)</td>
<td>0.01</td>
</tr>
<tr>
<td>SBC-14N</td>
<td>$2.75</td>
<td>MNPT 1/4</td>
<td>0.63</td>
<td>0.47</td>
<td>0.40</td>
<td>0.32</td>
<td>1.18</td>
<td>1.18</td>
<td>0.71</td>
<td>0.16 (4.0)</td>
<td>0.01</td>
</tr>
<tr>
<td>SBC-38N</td>
<td>$4.00</td>
<td>MNPT 3/8</td>
<td>0.71</td>
<td>0.55</td>
<td>0.39</td>
<td>0.35</td>
<td>1.38</td>
<td>1.38</td>
<td>0.83</td>
<td>0.197 (5.0)</td>
<td>0.05</td>
</tr>
<tr>
<td>SBC-12N</td>
<td>$7.25</td>
<td>MNPT 1/2</td>
<td>0.94</td>
<td>0.75</td>
<td>0.59</td>
<td>0.40</td>
<td>1.73</td>
<td>1.73</td>
<td>1.10</td>
<td>0.24 (6.0)</td>
<td>0.15</td>
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</tbody>
</table>

### NITRA™ Bronze Flat Silencers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>A</th>
<th>CH</th>
<th>D1</th>
<th>D2</th>
<th>F</th>
<th>L</th>
<th>N</th>
<th>Package Weight (lb)</th>
<th>Qty. per pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBC-M5</td>
<td>$1.75</td>
<td>M5</td>
<td>0.31</td>
<td>0.20</td>
<td>0.16</td>
<td>0.20</td>
<td>0.70</td>
<td>0.70</td>
<td>0.47</td>
<td>0.12 (3.0)</td>
</tr>
<tr>
<td>SBC-18R</td>
<td>$2.50</td>
<td>R 1/8</td>
<td>0.47</td>
<td>0.32</td>
<td>0.28</td>
<td>0.24</td>
<td>1.18</td>
<td>1.18</td>
<td>0.71</td>
<td>0.16 (4.0)</td>
</tr>
<tr>
<td>SBC-14R</td>
<td>$2.75</td>
<td>R 1/4</td>
<td>0.63</td>
<td>0.47</td>
<td>0.40</td>
<td>0.32</td>
<td>1.38</td>
<td>1.38</td>
<td>0.83</td>
<td>0.197 (5.0)</td>
</tr>
<tr>
<td>SBC-38R</td>
<td>$4.00</td>
<td>R 3/8</td>
<td>0.71</td>
<td>0.55</td>
<td>0.39</td>
<td>0.35</td>
<td>1.73</td>
<td>1.73</td>
<td>1.10</td>
<td>0.24 (6.0)</td>
</tr>
<tr>
<td>SBC-12R</td>
<td>$7.25</td>
<td>R 1/2</td>
<td>0.94</td>
<td>0.75</td>
<td>0.59</td>
<td>0.40</td>
<td>1.73</td>
<td>1.73</td>
<td>1.10</td>
<td>0.24 (6.0)</td>
</tr>
</tbody>
</table>

**Flow Characteristics**

**Bronze Cone Silencers**

- A: SBC-M5
- B: SBC-18N; SBC-18R
- C: SBC-14N; SBC-14R
- D: SBC-38N; SBC-38R
- E: SBC-12N; SBC-12R

**SBC Silencers**

- **SBC-18N**: Noise Elimination > 20db
- **SBC-14N**: Filtered Element = 40 micron
- **SBC-38N**: Filtered Element = 40 micron
- **SBC-12N**: Filtered Element = 40 micron

---

For the latest prices, please check AutomationDirect.com.
Exhaust Silencers

Flow Characteristics

Bronze Flat Silencers

A: SBF-M5
B: SPL-18N; SPL-18R
C: SPL-14N; SPL-14R
D: SPL-38N; SPL-38R
E: SPL-12N; SPL-12R

SPL Silencers

Part No. | Price | A  | D  | L  | F  | Package Weight (lbs) | Qty. per pack
--- | --- | --- | --- | --- | --- | --- | ---
SPL-18N | $2.00 | 0.55 | 1.28 | 0.33 | 0.02
SPL-14N | $2.25 | 0.66 | 1.68 | 0.39 | 0.03
SPL-38N | $2.50 | 0.94 | 2.66 | 0.44 | 0.06
SPL-12N | $2.50 | 1.00 | 2.66 | 0.44 | 0.08

Note: SPL series plastic exhaust silencers have a maximum pressure of 80 PSI (5.5 bar).

Flow Characteristics

Plastic Silencers

A: SPL-18N; SPL-18R
B: SPL-14N; SPL-14R
C: SPL-38N; SPL-38R
D: SPL-12N; SPL-12R

NITRA™ Plastic Exhaust Silencers

<table>
<thead>
<tr>
<th>Inch Sizes - dimensions in inches (mm)</th>
<th>Metric Sizes - dimensions in inches (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
<td>Price</td>
</tr>
<tr>
<td>SPL-18N</td>
<td>$2.00</td>
</tr>
<tr>
<td>SPL-14N</td>
<td>$2.25</td>
</tr>
<tr>
<td>SPL-38N</td>
<td>$2.50</td>
</tr>
<tr>
<td>SPL-12N</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

Noise Elimination = > 30db
Filtered Element = 40 micron

For the latest prices, please check AutomationDirect.com.
# Pneumatic A-Series Direction Control Solenoid Valves - Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Description</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVC1-12D</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 12VDC, 2.5 W. For use with AVS-31 and AVS-51 series valves.</td>
<td>0.1</td>
</tr>
<tr>
<td>AVC1-24D</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 24VDC, 2.5 W. For use with AVS-31 and AVS-51 series valves.</td>
<td>0.1</td>
</tr>
<tr>
<td>AVC1-24A</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 24VAC, 4.0 VA. For use with AVS-31 and AVS-51 series valves.</td>
<td>0.1</td>
</tr>
<tr>
<td>AVC1-120A</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 120VAC, 3.5 VA. For use with AVS-31 and AVS-51 series valves.</td>
<td>0.1</td>
</tr>
<tr>
<td>AVC2-12D</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 12VDC, 3.0 W. For use with AVP-31, AVS-31, AVS-32, AVS-33, AVS-51, AVS-52, AVS-53 and AVS-54 series valves.</td>
<td>0.2</td>
</tr>
<tr>
<td>AVC2-24D</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 24VDC, 3.0 W. For use with AVP-31, AVS-31, AVS-32, AVS-33, AVS-51, AVS-52, AVS-53 and AVS-54 series valves.</td>
<td>0.2</td>
</tr>
<tr>
<td>AVC2-24A</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 24VAC, 5.0 VA. For use with AVP-31, AVS-31, AVS-32, AVS-33, AVS-51, AVS-52, AVS-53 and AVS-54 series valves.</td>
<td>0.2</td>
</tr>
<tr>
<td>AVC2-120A</td>
<td>$8.25</td>
<td>NITRA solenoid coil, 120VAC, 4.5 VA. For use with AVP-31, AVS-31, AVS-32, AVS-33, AVS-51, AVS-52, AVS-53 and AVS-54 series valves.</td>
<td>0.2</td>
</tr>
<tr>
<td>AVP-31BKT</td>
<td>$1.25</td>
<td>NITRA individual mounting bracket, plated steel. For use with AVP-31 directional control valves.</td>
<td>0.1</td>
</tr>
<tr>
<td>AVP-31KIT</td>
<td>$2.00</td>
<td>NITRA stacking screws, for use with AVP-31 directional control valves. One kit is required for each additional AVP-31 valve added to the stack.</td>
<td>0.1</td>
</tr>
</tbody>
</table>

## Dimensions

**mm [inches]**

See our website www.AutomationDirect.com for complete Engineering drawings.

**AVC1 Series Coils**

**AVC2 Series Coils**

**AVP-31BKT**

For the latest prices, please check AutomationDirect.com.
# Pneumatic Directional Control Solenoid Valve Manifolds and Accessories

## AM-3 Series Manifolds

### AM-3 Series Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Description</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-312</td>
<td>$15.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.</td>
<td>0.2</td>
</tr>
<tr>
<td>AM-314</td>
<td>$22.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.</td>
<td>0.3</td>
</tr>
<tr>
<td>AM-316</td>
<td>$27.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.</td>
<td>0.4</td>
</tr>
<tr>
<td>AM-318</td>
<td>$35.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-31 series.</td>
<td>0.5</td>
</tr>
<tr>
<td>AM-31BP</td>
<td>$3.50</td>
<td>NITRA blanking plate, plated steel. For use with AM-31 series manifolds.</td>
<td>0.1</td>
</tr>
<tr>
<td>AM-322</td>
<td>$15.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.</td>
<td>0.2</td>
</tr>
<tr>
<td>AM-324</td>
<td>$24.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.</td>
<td>0.4</td>
</tr>
<tr>
<td>AM-326</td>
<td>$35.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.</td>
<td>0.5</td>
</tr>
<tr>
<td>AM-328</td>
<td>$46.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (2) 1/4in FNPT exhaust port(s). For use with AVS-32 series.</td>
<td>0.7</td>
</tr>
<tr>
<td>AM-32BP</td>
<td>$3.50</td>
<td>NITRA blanking plate, plated steel. For use with AM-32 series manifolds.</td>
<td>0.1</td>
</tr>
<tr>
<td>AM-332</td>
<td>$16.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.</td>
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</tr>
<tr>
<td>AM-334</td>
<td>$29.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.</td>
<td>0.6</td>
</tr>
<tr>
<td>AM-336</td>
<td>$51.00</td>
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<tr>
<td>AM-338</td>
<td>$55.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8in FNPT inlet port(s), (2) 3/8in FNPT exhaust port(s). For use with AVS-33 series.</td>
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<td>AM-512</td>
<td>$8.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.</td>
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</tr>
<tr>
<td>AM-514</td>
<td>$15.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.</td>
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<tr>
<td>AM-516</td>
<td>$21.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.</td>
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<td>AM-518</td>
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<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-51 series.</td>
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<td>AM-522</td>
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<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.</td>
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</tr>
<tr>
<td>AM-524</td>
<td>$23.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.</td>
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<td>AM-526</td>
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<td>AM-528</td>
<td>$48.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/4in FNPT inlet port(s), (4) 1/4in FNPT exhaust port(s). For use with AVS-52 series.</td>
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<td>$5.00</td>
<td>NITRA blanking plate, plated steel. For use with AM-52 series manifolds.</td>
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### Pneumatic Directional Control Solenoid Valve Series Accessories Continued

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Description</th>
<th>Weight (lb)</th>
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<tbody>
<tr>
<td>AM-532</td>
<td>$18.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.</td>
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<td>AM-534</td>
<td>$35.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.</td>
<td>1.4</td>
</tr>
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<td>AM-536</td>
<td>$55.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.</td>
<td>1.9</td>
</tr>
<tr>
<td>AM-538</td>
<td>$71.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 3/8in FNPT inlet port(s), (4) 3/8in FNPT exhaust port(s). For use with AVS-53 series.</td>
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<td>AM-53BP</td>
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<td>NITRA blanking plate, plated steel. For use with AM-53 series manifolds.</td>
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<tr>
<td>AM-542</td>
<td>$19.50</td>
<td>NITRA pneumatic valve manifold, aluminum, 2 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.</td>
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</tr>
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<td>AM-544</td>
<td>$40.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 4 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.</td>
<td>2.8</td>
</tr>
<tr>
<td>AM-546</td>
<td>$64.00</td>
<td>NITRA pneumatic valve manifold, aluminum, 6 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.</td>
<td>4.0</td>
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<tr>
<td>AM-548</td>
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<td>NITRA pneumatic valve manifold, aluminum, 8 stations, (2) 1/2in FNPT inlet port(s), (4) 1/2in FNPT exhaust port(s). For use with AVS-54 series.</td>
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<tr>
<td>AM-54BP</td>
<td>$4.50</td>
<td>NITRA blanking plate, plated steel. For use with AM-54 series manifolds.</td>
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</tr>
<tr>
<td>AM-31GS</td>
<td>$3.50</td>
<td>NITRA manifold mounting set, for use with AM-31 series manifolds.</td>
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</tr>
<tr>
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<td>NITRA manifold mounting set, for use with AM-32 series manifolds.</td>
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<td>AM-33GS</td>
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<td>AM-51GS</td>
<td>$3.50</td>
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Pneumatic Directional Control Solenoid Valve Manifolds and Accessories

Dimensions

mm [inches]

AM 3x Series Manifolds

<table>
<thead>
<tr>
<th>PART NO</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM-302</td>
<td>57.0 (2.24)</td>
<td>39.0 (1.54)</td>
<td>25.0 (0.98)</td>
<td>19.0 (0.75)</td>
<td></td>
</tr>
<tr>
<td>AM-314</td>
<td>95.0 (3.74)</td>
<td>3X</td>
<td>9.0 (0.35)</td>
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<td>AM-316</td>
<td>133.0 (5.24)</td>
<td>5X</td>
<td>19.0 (0.75)</td>
<td></td>
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</tr>
<tr>
<td>AM-318</td>
<td>171.0 (6.73)</td>
<td>7X</td>
<td>19.0 (0.75)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM-322</td>
<td>69.0 (2.72)</td>
<td>23.0 (0.91)</td>
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<td></td>
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<tr>
<td>AM-324</td>
<td>115.0 (4.53)</td>
<td>3X</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-326</td>
<td>161.0 (6.34)</td>
<td>5X</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-328</td>
<td>207.0 (8.15)</td>
<td>7X</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-332</td>
<td>82.0 (3.23)</td>
<td>20.0 (0.79)</td>
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<tr>
<td>AM-334</td>
<td>128.0 (5.08)</td>
<td>3X</td>
<td>28.0 (1.10)</td>
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<tr>
<td>AM-336</td>
<td>164.0 (6.46)</td>
<td>5X</td>
<td>28.0 (1.10)</td>
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<td></td>
</tr>
<tr>
<td>AM-338</td>
<td>250.0 (9.84)</td>
<td>7X</td>
<td>28.0 (1.10)</td>
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</table>

1/4 NPT

AM 5x Series Manifolds

<table>
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<tr>
<th>PART NO</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<tbody>
<tr>
<td>AM-502</td>
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<td>58.0 (2.28)</td>
<td>25.0 (0.98)</td>
<td>19.0 (0.75)</td>
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</tr>
<tr>
<td>AM-514</td>
<td>95.0 (3.74)</td>
<td>61.0 (2.40)</td>
<td>26.0 (1.02)</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-516</td>
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<td>7X</td>
<td>19.0 (0.75)</td>
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</tr>
<tr>
<td>AM-518</td>
<td>171.0 (6.73)</td>
<td>5X</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-522</td>
<td>69.0 (2.72)</td>
<td>23.0 (0.91)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>AM-524</td>
<td>115.0 (4.53)</td>
<td>3X</td>
<td>23.0 (0.91)</td>
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<td></td>
</tr>
<tr>
<td>AM-526</td>
<td>161.0 (6.34)</td>
<td>5X</td>
<td>23.0 (0.91)</td>
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<tr>
<td>AM-528</td>
<td>207.0 (8.15)</td>
<td>7X</td>
<td>23.0 (0.91)</td>
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<td></td>
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<tr>
<td>AM-532</td>
<td>82.0 (3.23)</td>
<td>26.0 (1.02)</td>
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<td>AM-534</td>
<td>128.0 (5.08)</td>
<td>7X</td>
<td>28.0 (1.10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM-536</td>
<td>164.0 (6.46)</td>
<td>5X</td>
<td>28.0 (1.10)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AM-538</td>
<td>250.0 (9.84)</td>
<td>7X</td>
<td>28.0 (1.10)</td>
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<td></td>
</tr>
<tr>
<td>AM-542</td>
<td>98.0 (3.86)</td>
<td>35.0 (1.38)</td>
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<tr>
<td>AM-544</td>
<td>168.0 (6.61)</td>
<td>3X</td>
<td>35.0 (1.38)</td>
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<tr>
<td>AM-546</td>
<td>238.0 (9.37)</td>
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<td>35.0 (1.38)</td>
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<tr>
<td>AM-548</td>
<td>308.0 (12.13)</td>
<td>7X</td>
<td>35.0 (1.38)</td>
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</tbody>
</table>

3/8 NPT

1/2 NPT

* Exhaust holes have 1mm offset from spacing centerline.
These high quality connectors and over-molded cables help reduce wiring time. The lower voltage models, 24V or 110V AC/DC, include built-in surge suppression, Yellow LED indicator and are rated for connecting with electronics. The 230V AC/DC models are rated for straight wired products. All models are available in five sizes based on DIN 43650.

Features

- 8mm, 9.4mm, 10mm, 11mm and 18mm square DIN styles
- Fits most popular solenoid valves and sensors
- Suppression and LED indication available in 24V or 110V AC/DC models
- PVC jacketed cables in 1, 3 or 5 meter lengths on select connectors
- Field wireable connectors on select models
- Polarity insensitive (follow solenoid, sensor, or other devices wiring diagram)

8mm Connectors
Dimensions shown
mm (inches)

8mm Transmitter Connector
Dimensions shown
mm (inches)

For the latest prices, please check AutomationDirect.com.
Solenoid Valve Cables and Connectors

9.4mm Connectors
Dimensions shown
mm [inches]

10mm Connectors
Dimensions shown
mm [inches]

9.4mm (3-pole) Connectors (DIN Style, Form C Industrial)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Voltage (AC/DC)</th>
<th>Current Rating</th>
<th>IP Rating</th>
<th>Wire Size</th>
<th>Cable Dia. (in.)</th>
<th>LED</th>
<th>Surge Protection</th>
<th>Wiring Figure</th>
<th>Screw Size/Torque</th>
<th>Weight (lbs)</th>
<th>Agency Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC9-LS24-3</td>
<td>$11.50</td>
<td>24 ±20%</td>
<td>max 4A</td>
<td>67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>1</td>
<td>m3-0.5x26mm/0.4 Nm</td>
<td>0.40</td>
<td>CSA (080128-0-000)</td>
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<tr>
<td>SC9-LS24-5</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>zener diode</td>
<td>7</td>
<td>m3-0.5x26mm/0.4 Nm</td>
<td>0.64</td>
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</tr>
<tr>
<td>SC9-LS110-3</td>
<td>$14.50</td>
<td>110 ±10%</td>
<td>max 1A</td>
<td>67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>1</td>
<td>m3-0.5x26mm/0.4 Nm</td>
<td>0.40</td>
<td></td>
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<tr>
<td>SC9-LS110-5</td>
<td>$17.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>zener diode</td>
<td>7</td>
<td>m3-0.5x26mm/0.4 Nm</td>
<td>0.64</td>
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<tr>
<td>SC9-3</td>
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<td>230</td>
<td>max 6A</td>
<td>67</td>
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<td>2</td>
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</table>

Last digit in part number denotes cable length in meters.

10mm (3-pole) Connectors (per DIN 43650 Form B)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Voltage (AC/DC)</th>
<th>Current Rating</th>
<th>IP Rating</th>
<th>Wire Size</th>
<th>Cable Dia. (in.)</th>
<th>LED</th>
<th>Surge Protection</th>
<th>Wiring Figure</th>
<th>Screw Size/Torque</th>
<th>Weight (lbs)</th>
<th>Agency Approval</th>
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<tr>
<td>SC10-LS24-3</td>
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<td>24 ±20%</td>
<td>max 4A</td>
<td>67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>10</td>
<td>m3-0.5x30mm/0.4 Nm</td>
<td>0.43</td>
<td>CSA (080128-0-000)</td>
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<tr>
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<td></td>
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<td>zener diode</td>
<td>6</td>
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<td>0.68</td>
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<td>SC10-LS110-3</td>
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<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>10</td>
<td>m3-0.5x30mm/0.4 Nm</td>
<td>0.43</td>
<td></td>
</tr>
<tr>
<td>SC10-LS110-5</td>
<td>$17.00</td>
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<td></td>
<td></td>
<td>zener diode</td>
<td>6</td>
<td>m3-0.5x30mm/0.4 Nm</td>
<td>0.68</td>
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<td>max 10A</td>
<td>67</td>
<td>18 AWG</td>
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<td>no</td>
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<tr>
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<td>110 ±10%</td>
<td>max 1A</td>
<td>67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
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<td>none</td>
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</tbody>
</table>

Last digit in part number denotes cable length in meters, a 0 indicates field termination.
## Solenoid Valve Cables and Connectors

### 11mm Connectors

Dimensions shown mm (inches)

![Connector with Cable](image1)

- **Height = 30mm (1.18in)**
- **Reverse Connector with Cable**
- **Height = 41mm (1.61in)**

### 18mm Connectors

Dimensions shown mm (inches)

![Connector with Cable](image2)

- **Height = 30mm (1.18in)**
- **Field Wireable Connector**

### 11mm (3-pole) Connectors (DIN Style, Form B Industrial)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Price</th>
<th>Voltage (AC/DC)</th>
<th>Current Rating</th>
<th>IP Rating</th>
<th>Wire Size</th>
<th>Cable Dia. (in)</th>
<th>LED</th>
<th>Surge Protection</th>
<th>Wiring Figure</th>
<th>Screw Size/ Torque</th>
<th>Weight (lbs)</th>
<th>Agency Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC11-LS24-3</td>
<td>$11.50</td>
<td>24 ±20%</td>
<td>max 4A</td>
<td>IP 67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>10</td>
<td>m3-0.5x30mm/</td>
<td>0.44</td>
<td>CSA (080128-0-000)</td>
</tr>
<tr>
<td>SC11-LS24-5</td>
<td>$14.00</td>
<td>110 ±10%</td>
<td>max 1A</td>
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<td></td>
<td></td>
<td></td>
<td>zener diode</td>
<td>6</td>
<td>m3-0.5x30mm/</td>
<td>0.67</td>
<td></td>
</tr>
<tr>
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<td>24 ±20%</td>
<td>max 4A</td>
<td>IP 67</td>
<td>18 AWG</td>
<td>0.23</td>
<td>yes</td>
<td>zener diode</td>
<td>10</td>
<td>m3-0.5x30mm/</td>
<td>0.44</td>
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<td>SC11-LS110-5</td>
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<td>110 ±10%</td>
<td>max 1A</td>
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<td></td>
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<td>zener diode</td>
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<td>zener diode</td>
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<td></td>
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<td>m3-0.5x30mm/</td>
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<td>Solid 12 AWG</td>
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<td>yes</td>
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Last digit in part number denotes cable length in meters, a 0 indicates field termination.

### 18mm Connectors (per DIN 43650 Form A)

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<th>Part No.</th>
<th>Price</th>
<th>Voltage (AC/DC)</th>
<th>Current Rating</th>
<th>IP Rating</th>
<th>Wire Size</th>
<th>Cable Dia. (in)</th>
<th>LED</th>
<th>Surge Protection</th>
<th>Wiring Figure</th>
<th>Screw Size/ Torque</th>
<th>Weight (lbs)</th>
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<td>18 AWG</td>
<td>0.23</td>
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<td>zener diode</td>
<td>7</td>
<td>m3-0.5x30mm/</td>
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<td>zener diode</td>
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<td>Solid 12 AWG</td>
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<td>yes</td>
<td>zener diode</td>
<td>4</td>
<td>m3-0.5x30mm/</td>
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<td>max 1A</td>
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<td>Solid 12 AWG</td>
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<td>zener diode</td>
<td>5</td>
<td>m3-0.5x30mm/</td>
<td>0.44</td>
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<td>SC18-0</td>
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<td>Solid 12 AWG</td>
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<td>m3-0.5x30mm/</td>
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</tr>
</tbody>
</table>

Last digit in part number denotes cable length in meters, a 0 indicates field termination.

For the latest prices, please check AutomationDirect.com.

tPNE-94 Pneumatics 1-800-633-0405

For the latest prices, please check AutomationDirect.com.
Solenoid Valve Cables and Connectors Wiring Diagrams

Figure No. 1

Figure No. 2

Figure No. 3

Figure No. 4

Figure No. 5

Figure No. 6

Figure No. 7

Figure No. 8

Figure No. 9

Figure No. 10

For the latest prices, please check AutomationDirect.com.