**Size 102–STA® Push Tubular Solenoids — 1" Dia. x 1-1/8"**

**Part Number:** 154650 - X XX

- **Coil AWG Number**
  - (from performance chart below)
- **Plunger Configurations and anti-rotation flat on mounting**
  - 2 60° plunger without anti-rotation flat
  - 6 60° plunger with anti-rotation flat

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### Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec) when pulsed continuously&lt;sup&gt;1&lt;/sup&gt;</td>
<td>∞</td>
<td>104</td>
<td>24</td>
<td>8</td>
</tr>
<tr>
<td>Maximum ON Time (sec) for single pulse&lt;sup&gt;2&lt;/sup&gt;</td>
<td>∞</td>
<td>187</td>
<td>55</td>
<td>18</td>
</tr>
<tr>
<td>Watts (@ 20°C)</td>
<td>8</td>
<td>16</td>
<td>32</td>
<td>80</td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>718</td>
<td>1015</td>
<td>1435</td>
<td>2270</td>
</tr>
</tbody>
</table>

### Specifications

- **Dielectric Strength**: 1000 VRMS
- **Recommended Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminum plate measuring 4" square by 1/8" thick**
- **Minimum Heat Sink**: ±5% tolerance
- **Holding Force**: 3.4 lbs (15.1 N) at 20°C
- **Weight**: 3.8 oz (110 g)
- **Plunger Weight**: 0.64 oz (18.4 g)

### How to Order

Add the plunger configuration and the coil awg number to the part number (for example: to order a unit with a 60° plunger configuration without an anti-rotation flat rated for 5.3 VDC at 25% duty cycle, specify 154650-223).

Please see www.johnsonelectric.com for our list of stock products available through distribution.

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All specifications subject to change without notice.
Size 102–STA® Push Tubular Solenoids — 1" Dia. x 1-1/8"

Typical Force @ 20°C

Dimensions

All solenoids are illustrated in energized state

Inches (mm)

With Anti-Rotation Flat

Mounting Nut Shipped Loose