

## SMALL PARTS TIPS SPECIFICATIONS

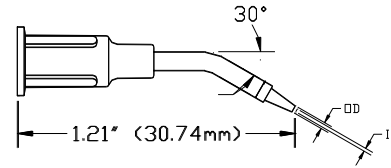


Figure 1

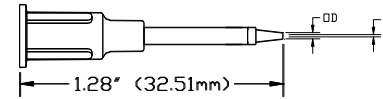


Figure 2.

| Material                                                                                                                                                                                               | Non-conductive Acetal                 |                   | Static Dissipative Delrin               |                   | High-Temperature Torlon                                                                                                                                                                                    |                   | Gold Plated Brass                     |                   | At 6" Hg (152mm Hg)<br>recommended for handling parts<br>larger than the tip ID size up to<br>a size of: |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------|-----------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------|
| ESD Properties                                                                                                                                                                                         | Greater than 10 <sup>13</sup> ohms    |                   | 10 <sup>9</sup> - 10 <sup>11</sup> ohms |                   | Greater than 10 <sup>13</sup> ohms                                                                                                                                                                         |                   | Less than 1 ohm                       |                   |                                                                                                          |
| Operating Temperature                                                                                                                                                                                  | 212 <sup>0</sup> F 100 <sup>0</sup> C |                   | 212 <sup>0</sup> F 100 <sup>0</sup> C   |                   | 475 <sup>0</sup> F 246 <sup>0</sup> C                                                                                                                                                                      |                   | 500 <sup>0</sup> F 260 <sup>0</sup> C |                   |                                                                                                          |
| PART NUMBER                                                                                                                                                                                            | OD                                    | ID                | OD                                      | ID                | OD                                                                                                                                                                                                         | ID                | OD                                    | ID                | Inches (mm)                                                                                              |
| <b>VSPT0803</b> -*-**                                                                                                                                                                                  | 0.008"<br>0.203mm                     | 0.003"<br>0.076mm | 0.008"<br>0.203mm                       | 0.003"<br>0.076mm | N/A                                                                                                                                                                                                        | N/A               | N/A                                   | N/A               | 0.015" X 0.015" X 0.015"<br>(0.38mm X 0.38mm X 0.38mm)                                                   |
| <b>VSPT1005</b> -*-**                                                                                                                                                                                  | 0.010"<br>0.254mm                     | 0.005"<br>0.127mm | 0.010"<br>0.254mm                       | 0.005"<br>0.127mm | 0.010"<br>0.254mm                                                                                                                                                                                          | 0.005"<br>0.127mm | 0.010"<br>0.254mm                     | 0.005"<br>0.127mm | 0.03" X 0.03" X 0.03"<br>(0.76mm X 0.76mm X 0.76mm)                                                      |
| <b>VSPT2010</b> -*-**                                                                                                                                                                                  | 0.020"<br>0.508mm                     | 0.010"<br>0.254mm | 0.020"<br>0.508mm                       | 0.010"<br>0.254mm | 0.020"<br>0.508mm                                                                                                                                                                                          | 0.010"<br>0.254mm | 0.020"<br>0.508mm                     | 0.010"<br>0.254mm | 0.06" X 0.06" X 0.06"<br>(1.52mm X 1.52mm X 1.52mm)                                                      |
| <b>VSPT2515</b> -*-**                                                                                                                                                                                  | 0.025"<br>0.635mm                     | 0.015"<br>0.381mm | 0.025"<br>0.635mm                       | 0.015"<br>0.381mm | 0.025"<br>0.635mm                                                                                                                                                                                          | 0.015"<br>0.381mm | 0.025"<br>0.635mm                     | 0.015"<br>0.381mm | 0.07' X 0.07' X 0.07"<br>(1.78mm X 1.78mm X 1.78mm)                                                      |
| <b>VSPT3020</b> -*-**                                                                                                                                                                                  | 0.030"<br>0.762mm                     | 0.020"<br>0.508mm | 0.030"<br>0.762mm                       | 0.020"<br>0.508mm | 0.030"<br>0.762mm                                                                                                                                                                                          | 0.020"<br>0.508mm | 0.030"<br>0.762mm                     | 0.020"<br>0.508mm | 0.90" X 0.90" X 0.90"<br>(2.29mm X 2.29mm X 2.29mm)                                                      |
| <b>VSPT4030</b> -*-**                                                                                                                                                                                  | 0.040"<br>1.016mm                     | 0.030"<br>0.762mm | 0.040"<br>1.016mm                       | 0.030"<br>0.762mm | 0.040"<br>1.016mm                                                                                                                                                                                          | 0.030"<br>0.762mm | 0.040"<br>1.016mm                     | 0.030"<br>0.762mm | 0.12" X 0.12" X 0.12"<br>(3.05mm X 3.05mm X 3.05mm)                                                      |
| <b>VSPT6040</b> -*-**                                                                                                                                                                                  | 0.060"<br>1.524mm                     | 0.040"<br>1.016mm | 0.060"<br>1.524mm                       | 0.040"<br>1.016mm | 0.060"<br>1.524mm                                                                                                                                                                                          | 0.040"<br>1.016mm | 0.060"<br>1.524mm                     | 0.040"<br>1.016mm | 0.18" X 0.18" X 0.18"<br>(4.57mm X 4.57mm X 4.57mm)                                                      |
| <b>VSPT7050</b> -*-**                                                                                                                                                                                  | 0.070"<br>1.778mm                     | 0.050"<br>1.27mm  | 0.070"<br>1.778mm                       | 0.050"<br>1.27mm  | 0.070"<br>1.778mm                                                                                                                                                                                          | 0.050"<br>1.27mm  | 0.070"<br>1.778mm                     | 0.050"<br>1.27mm  | 0.21" X 0.21" X 0.21"<br>(5.33mm X5.33mm X 5.33mm)                                                       |
| <b>VSPT8060</b> -*-**                                                                                                                                                                                  | 0.080"<br>2.032mm                     | 0.060"<br>1.524mm | 0.080"<br>2.032mm                       | 0.060"<br>1.524mm | 0.080"<br>2.032mm                                                                                                                                                                                          | 0.060"<br>1.524mm | 0.080"<br>2.032mm                     | 0.060"<br>1.524mm | 0.24" X 0.24" X 0.24"<br>(6.10mm X 6.10mm X 6.10mm)                                                      |
| * = dash "B" specifies an angled probe, Figure 1.<br>dash "S" specifies a straight probe, Figure 2.                                                                                                    |                                       |                   |                                         |                   | ** = dash "A" selects the acetal plastic material.<br>dash "D" selects the delrin plastic material.<br>dash "T" selects the high-temp torlon material.<br>dash "B" selects the gold plated brass material. |                   |                                       |                   |                                                                                                          |
| <b>ORDERING EXAMPLE:</b> Part number "VSPT2010-B-D selects a small part angled tip as in figure 1 with an OD of 0.020" (0.508mm), an ID of 0.010"(0.254mm) and the Static Dissipative Delrin material. |                                       |                   |                                         |                   |                                                                                                                                                                                                            |                   |                                       |                   |                                                                                                          |
| <b>NOTE:</b> These tips are to be used with continuous source vacuum handling tools. These tips will not work with self contained tools such as the PEN-VAC® tool.                                     |                                       |                   |                                         |                   |                                                                                                                                                                                                            |                   |                                       |                   |                                                                                                          |