

In the realm of micro-dispensing application, the challenge takes place on methods to achieve small volumes or dots of 200 microns (8mils) and below with high repeatability. Among the methods that have been developed, the ideal approach at present would still be dispensing nozzle using auger screw or piston pumps. As for the nozzle, micro-dispensing requires small orifice with tight tolerance. Smooth internal finishing is also an important factor to enhanced fluid flow.

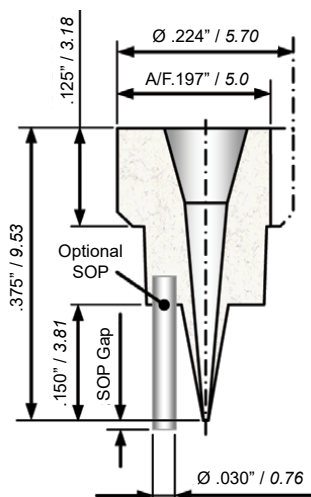
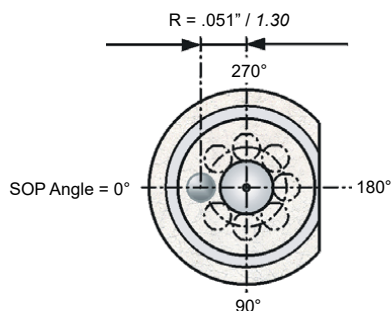
Small Precision Tools (SPT) positioned itself in meeting the challenge by introducing ceramic dispensing nozzles. Utilizing the ceramic injection molding technology, the nozzles are fully molded as opposed to inserted rolled tubing and stainless-steel machining. Different bodies and outer tip configurations are available.



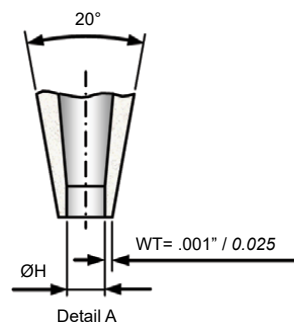
Courtesy of Datacon

The following are the advantages:

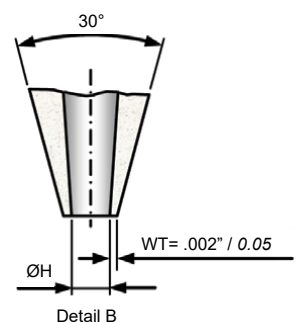
- Micro-dots dispensing: Beyond machined stainless-steel needle capability.
- Higher MTBA: Internal taper design with slicker finishing for less frequent clogging.



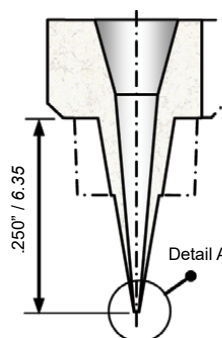
Body :M39C
Option :SOP



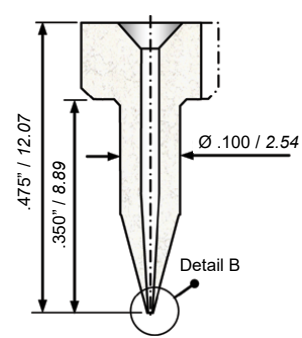
Detail A



Detail B



Detail A



Detail B

Body :M39C
Option :TAPER RELIEF

Body :M39C-350

