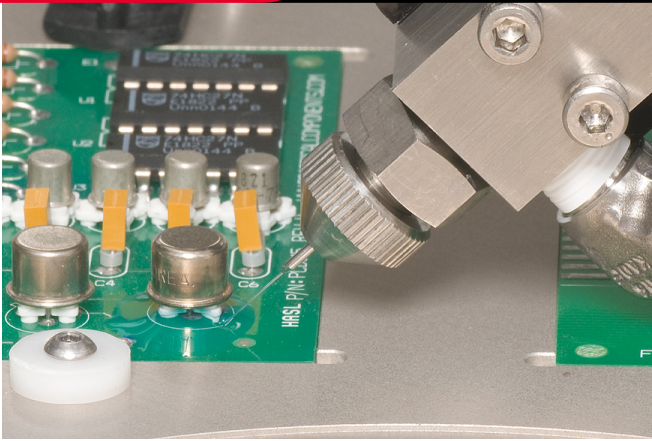




INNOVATION. PRECISION. EXCELLENCE.



Micro Dispense Nozzles

PVA offers a variety of micro dispense nozzles available in stainless steel or ceramic to handle various material chemistries and flow rates. These nozzles are utilized in applications requiring precise control when applying small dots or beads, and can apply many low viscosity fluids with a non-contact method.

Features of this nozzle include a reduced fluid volume and precision chamfer at the outlet. As compared to standard luer lock needles which have a hub which holds a volume of fluid, this nozzle allows fluid to flow directly into the cannula, reducing volume and backpressure. The precision chamfer at the end of the tip allows for a much cleaner break of fluid and eliminating buildup on the tip and wicking up the side that can be seen with blunt end needle cannulas.

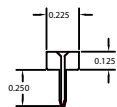
For specific materials, the reduced surface tension of ceramic nozzles can provide improved results over the stainless steel nozzles.

Micro Dispense Nozzles are used in the following valves:

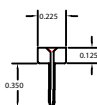
- FCM100
- FCM200
- SVX
- MV250

Stainless steel nozzles are available with longer, custom length cannulas. Please contact PVA for availability.

| Stainless | | | | | |
|-----------|-----------------|-------|-----------------|------|-------------|
| | Inside Diameter | | Standard Length | | Part Number |
| Gauge | in | mm | in | mm | - |
| 16 | 0.0470 | 1.190 | 0.25 | 6.35 | PV-16002A |
| 18 | 0.0330 | 0.840 | 0.25 | 6.35 | PV-18007A |
| 19 | 0.0270 | 0.690 | 0.25 | 6.35 | PV-19002A |
| 20 | 0.0235 | 0.597 | 0.25 | 6.35 | PV-20003A |
| 21 | 0.0200 | 0.510 | 0.25 | 6.35 | PV-21006A |
| 22 | 0.1600 | 0.410 | 0.25 | 6.35 | PV-22005A |
| 23 | 0.0130 | 0.330 | 0.25 | 6.35 | PV-23006A |
| 25 | 0.0100 | 0.250 | 0.25 | 6.35 | PV-25007A |
| 27 | 0.0080 | 0.210 | 0.25 | 6.35 | PV-27005A |
| 28 | 0.0070 | 0.180 | 0.25 | 6.35 | PV-28004A |
| 30 | 0.0060 | 0.150 | 0.25 | 6.35 | PV-30001A |
| 31 | 0.0050 | 0.127 | 0.25 | 6.35 | PV-31001A |
| 32 | 0.0040 | 0.102 | 0.25 | 6.35 | PV-32001A |



| Ceramic | | | | | |
|---------|-----------------|--------|-----------------|------|-------------|
| | Inside Diameter | | Standard Length | | Part Number |
| Gauge | in | mm | in | mm | - |
| 25 | 0.0100 | 0.2540 | 0.35 | 8.89 | PV-25003AC |
| 27 | 0.0080 | 0.2030 | 0.35 | 8.89 | PV-27003AC |
| 28 | 0.0070 | 0.1780 | 0.35 | 8.89 | PV-28003AC |
| 30 | 0.0060 | 0.1520 | 0.35 | 8.89 | PV-30003AC |
| 31 | 0.0050 | 0.1270 | 0.35 | 8.89 | PV-31003AC |
| 32 | 0.0040 | 0.1016 | 0.35 | 8.89 | PV-32003AC |
| 33 | 0.0030 | 0.0762 | 0.35 | 8.89 | PV-00303AC |



REV - 5/24

Headquarters
 6 Corporate Drive | Halfmoon, NY 12065
 tel +1 518 371 2684 | fx +1 518 371 2688
 www.pva.net | info@pva.net

From time to time, the small orifices of the micro dispense nozzles may become clogged if left unattended. PVA offers a variety of cleaning bits to match each gauge size along with a miniature handle/vise to hold these tiny bits.

| Cleaning Bits - Micro Dispense Nozzles | | | |
|---|------------------------------|-----------------|-----------|
| Part Number | Description | Diameter | |
| | mm | in | mm |
| 162A | Handle Vise to Hold Bits | - | - |
| 01871 | 30 and 31 gauge cleaning bit | #100 | #100 |
| 01864 | 28 gauge cleaning bit | 0.0059 | 0.1500 |
| 01865 | 27 gauge cleaning bit | 0.0070 | 0.1800 |
| 01866 | 25 gauge cleaning bit | 0.0094 | 0.2400 |
| 01867 | 23 gauge cleaning bit | 0.0126 | 0.3200 |
| 01868 | 22 gauge cleaning bit | 0.0157 | 0.4000 |
| 01869 | 21 gauge cleaning bit | 0.0197 | 0.5000 |
| 01870 | 20 gauge cleaning bit | 0.0216 | 0.5500 |

