

**WHERE  
PRECISION  
DRIVES  
PRODUCTION**

## 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 canula, 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 canulas.

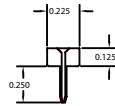
For specific materials, the reduced surface tension of ceramic nozzles can provide improved results over the stainless steel nozzles.

Micro Dispense Nozzles are used in the following valves:

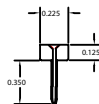
- FCM100
- FCM200
- SVX
- MV250

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

Stainless					
	Inside Diameter		Standard Length		Part Number
Gauge	in	mm	in	mm	-
16	0.0470	1.190	0.2500	6.350	PV-16002A
18	0.0330	0.840	0.2500	6.350	PV-18007A
19	0.0270	0.690	0.2500	6.350	PV-19002A
20	0.0235	0.597	0.2500	6.350	PV-20003A
21	0.0200	0.510	0.2500	6.350	PV-21006A
22	0.1600	0.410	0.2500	6.350	PV-22005A
23	0.0130	0.410	0.2500	6.350	PV-23006A
25	0.0100	0.330	0.2500	6.350	PV-25007A
27	0.0080	0.250	0.2500	6.350	PV-27004A
28	0.0070	0.210	0.2500	6.350	PV-28004A
30	0.0060	0.180	0.2500	6.350	PV-30001A
31	0.0050	0.150	0.2500	6.350	PV-31001A
32	0.0040	0.102	0.2500	6.350	PV-32001A



Ceramic					
	Inside Diameter		Standard Length		Part Number
Gauge	in	mm	in	mm	-
25	0.0100	0.2500	0.3500	8.890	PV-25003AC
27	0.0080	0.2100	0.3500	8.890	PV-27003AC
28	0.0070	0.1800	0.3500	8.890	PV-28003AC
30	0.0060	0.1500	0.3500	8.890	PV-30003AC
31	0.0050	0.1270	0.3500	8.890	PV-31003AC
32	0.0040	0.1016	0.3500	8.890	PV-32003AC
33	0.0030	0.0762	0.3500	8.890	PV-00303AC



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

