

Syringe V3 (3cm) Product Line

The V3 syringe line is designed to couple to a Versa 3 Syringe Pump and standard V3 valve assembly. These syringes are rated to 80 psi and typically used in various types of instruments and analyzers serving clinical, medical, and analytical instrumentation applications. An array of syringe volumes are available that can be dispensed and/or aspirated over a full 3cm stroke.

Physical

Length (Dispensed)

2.37"; (Aspirated): 3.55"

Thread Type

1/4"-28 UNF-2A

Test Pressure

80 psi

Environmental

Operating Temperature

50°F to 104°F (10°C to 40°C)

Storage Temperature

13°F to 185°F (-25° to 85°C)

Relative Humidity

Up to 100%

Chemical

Standard Syringe Seal

PTFE

Wetted Materials

Borosilicate Glass, PCTFE, PTFE (or UHMW) (smaller sizes ZDV tips are PTFE coated 316L)

Syringe tips

Lubricated with laboratory-grade Silicone

Standard Syringes:

Size	Syringe Assy	Syringe Assy (No Silicone)	ZDV Assy	Orifice Size
50ul	23164	22007	27960 *	0.023
100ul	23165	22008	27961 *	0.023
250ul	23166	22009	28006	0.031
500ul	23167	22010	28007	0.031
1.0ml	23168	22011	28008	0.073
2.5ml	23169	22012	28009	0.073
5.0ml	23170	22013	28010	0.073

Syringe construction:

Syringes have Borosilicate glass, PTFE seal and tip wetted surfaces.

Syringe part numbers followed by an asterisk (*) have tips with PTFE coated stainless steel 316L wetted components.



Mechanical

Syringe Sizes	50ul	100ul	250ul	500ul	1.0ml	2.5ml	5.0ml
Orifice Diameter (in)	.023	.023	.031	.031	.073	.073	.073
Syringe(End Cap) Diameter (in)	0.43	0.43	0.43	0.43	0.43	0.56	0.72
Button Diameter (in)	0.25	0.25	0.25	0.25	0.3	0.3	0.3
*Max Drag Force (lbs)	PTFE	3.0	3.0	3.0	3.0	3.0	6.0
	UHMW	7.0	7.0	7.0	7.0	7.0	10.0

*Add 1 pound drag force to non-lubricated plunger tip requests.

Syringe V3 (3cm) Product Line

SP-K Syringes:

Size	Syringe Assy	ZDV Assy	Orifice Size
50ul	24411	27958 *	0.023
100ul	24412	27959 *	0.023
250ul	24413	28011	0.031
500ul	24414	28012	0.031
1.0ml	24415	28013	0.073
2.5ml	24416	28014	0.073
5.0ml	24417	28015	0.073

Syringe construction:

Syringes have Borosilicate glass, PTFE seal, and UHMW (B-1000 black) plunger tip wetted surfaces.
 Syringe part numbers followed by an asterisk (*) have tips with PTFE coated stainless steel 316L wetted components.

Dimensions in. (mm)

