

## Syringe V6 (6cm) Product Line

The V6 syringe line is designed to couple to a Syringe V6 Pump and standard valve assembly. These syringes are 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 6cm stroke.

### Physical

**Length (Dispensed)**  
4.37"; (Aspirated):6.73"  
**Thread Type**  
¼-28 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



### Mechanical

Syringe Sizes	10ul	25ul	50ul	100ul	250ul	500ul	1.0ml	1.25ml	2.5ml	5.0ml	10ml	25ml	50ml
Orifice Diameter (in)	.016	.016	.024	.032	.039	.076	.076	.076	.076	.076	.076	.076	.076
Syringe (End Cap) Diameter (in)	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6	.75	1.12	1.5
*Max Drag Force (lbs)	PTFE	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	8.0
	UHMW	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	10.0	10.0	15.0

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

### Standard Syringe Assembly (individually boxed):

Size	Orifice	Standard Syringe	ZDV	Port Thread
25ul	0.027	17591	—	¼-28 UNF
50ul	0.024	17592	—	¼-28 UNF
100ul	0.032	17593	—	¼-28 UNF
250ul	0.039	17594	19509	¼-28 UNF
500ul	0.076	17595	19537	¼-28 UNF
1.0ml	0.076	17596	25429	¼-28 UNF
1.25ml	0.076	17597	25431	¼-28 UNF
2.5ml	0.076	17598	19539	¼-28 UNF
5.0ml	0.076	17599	18463	¼-28 UNF
10.0ml	0.076	17600	18469	¼-28 UNF
25.0ml	0.076	17601	23734	¼-28 UNF
50.0ml	0.076	17602	—	¼-28 UNF

### Syringe construction:

Syringes have Borosilicate glass. The 25ul, 50ul, and 100ul syringes use a standard plunger tip, while the 250ul through 50ml incorporate a canted spring design.

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### UHMW Syringes (individually boxed):

Size	Orifice	Standard Syringe	ZDV	Port Thread
25ul	0.027	—	—	¼-28 UNF
50ul	0.024	24681	—	¼-28 UNF
100ul	0.032	24518	—	¼-28 UNF
250ul	0.039	19513	—	¼-28 UNF
500ul	0.076	24694	25427	¼-28 UNF
1.0ml	0.076	24690	25413	¼-28 UNF
1.25ml	0.076	—	25438	¼-28 UNF
2.5ml	0.076	24685	25388	¼-28 UNF
5.0ml	0.076	18857	24691	¼-28 UNF
10.0ml	0.076	19110	24139	¼-28 UNF
25.0ml	0.076	24688	25380	¼-28 UNF
50.0ml	0.076	—	—	¼-28 UNF

### Syringe construction:

Syringes have Borosilicate glass. The 25ul, 50ul, and 100ul syringes use a standard plunger tip, while the 250ul through 50ml incorporate a canted spring design.

Wetted materials: Borosilicate glass; PCTFE; UHMW

Dimensions in. (mm)

