

**NEW**

# Zero Dead Volume (6cm, V6 Syringe) Syringe Designed for Customer's Instruments

The 6cm V6 syringe is designed and manufactured under stringent manufacturing and quality standards.

## SPECIFICATION AND QUALITY

The required quality of a syringe depends on the application and conditions of use. We have to take these conditions into consideration. At the design stage to produce the most suitable syringe.

- kind of solution used
- cycle of piston movement of plunger
- operating temperature
- power of motor for plunger action
- method of fitting to the equipment
- tolerance of dimensions

## ACCURACY

The annealed 3.3 borosilicate glass barrel maintains stable and enduring sampling. High uniformity of barrel dimension and mirror finished surface provide an accuracy and reproducibility within  $\pm 1\%$ .

## MANUFACTURING

Precision manufacture of each part (holder, glass barrel and plunger) ensures a smooth plunger action, accurate sampling and extended plunger PTFE tip life. Our superior processing techniques in glass, metal and plastics can meet any original specifications. A wide variety of materials are available for different applications.

- Stainless steel: SUS303, 304 and 316 etc.
- Plastic: PTFE, PCTFE, UHMW

### Physical

Length: 4.37"  
End Cap: 1/4-28 Plunger Button:  
XL style  
Optimal Internal Pressure 80 PSI

### Environmental

Storage Temperature: 10°F to 180°F °C  
Operating Temperature: 50°F to 104°F  
Humidity: up to 100%

### Chemical

Wetted Materials:  
Borosilicate Glass, Kel-F (CTFE), Teflon (PTFE), UHMW (optional tip material), Lubricated with Medical grade lubricant

### Performance

Cycle life:  
PTFE Tip= up to 400K full stroke cycles\* UHMW Tip = up to 800k full stroke cycles\*  
Accuracy/Precision  
1% at 10% of total volume (with Di Water)

## ZERO DEAD VOLUME SYRINGE

are used in various Field requiring  
**PRECISION INJECTION**

- ✓ Chromatography
- ✓ Biochemical Filed
- ✓ Medical Inspection
- ✓ Industrial Instruments

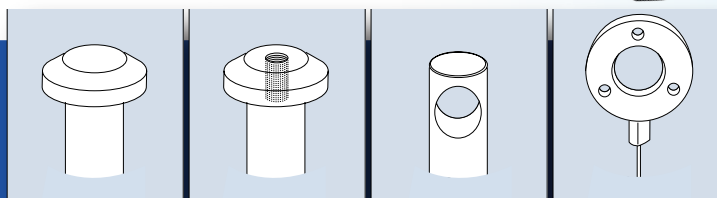
For Parallel  
Samples  
Withdrawal &  
Doasge in  
MultiSyringe  
Pumps



## SYRINGE HEAD SHAPES



## PLUNGER HEAD SHAPES

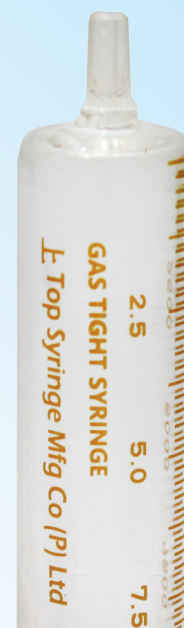


# TRÜTH Gas Tight Syringes







TRÜTH Gas Tight syringes are ideal for dispensing both liquids and gases. They have a precision-machined PTFE plunger tip which creates a leak-free seal. With the tight fit, the tip essentially wipes the interior of the syringe barrel free of sample. This feature is particularly useful with heterogeneous samples as it reduces the chance that a deposit will occur and cause the plunger to freeze.

## TRÜTH Gas Tight Syringe Operating Parameters

Volume		2.5ml	5ml	10ml	25ml
Scale length, mm		60	60	60	60
Total scale divisions		100	100	100	100
Major graduations, mL		0.5	0.5	1.0	2.5
Minor graduations, mL		0.1	0.1	0.2	0.5
Sub-Minor graduations, mL		0.05	0.05	0.1	0.25
Maximum temperature	°C	115	115	115	115
	°F	239	239	239	239
Minimum temperature	°C	10	10	10	10
	°F	50	50	50	50
Maximum Pressure rating	bars	14	14	14	7
	psig	200	200	200	100



## Syringe Terminations (Coming Soon 1.25ml & 1ml, 60mm Stroke)

Terminations	Abbrev	Catalog				Autoclavable at 115°C
		2.5ml	5ml	10ml	25ml	
Luer Tip 	LT	42-24-01-73	42-08-01-73	42-09-01-74	42-30-01-75	Yes if disassembled
PTFE Luer Lock 	TLL	42-24-65-73	42-08-65-73	42-09-65-74	42-30-65-75	Yes if disassembled
UNF 	1/4"-28 UNF	42-24-67-73	42-08-67-73	42-09-67-74	42-30-67-75	Yes if disassembled
Fixed Needle Beveled 	LTFN	42-24-66-73	42-08-66-73	42-09-66-74	-	No
Fixed Needle Blunt 	LTFNB	42-24-68-73	42-08-68-73	42-09-68-74	-	No
Zero Dead Volume 	ZDV	-	-	42-09-70-74	-	No



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