



Part No. 140-4602	
Dimensions:	Approximate
Piston Outside Diameter:	35.90 mm ± 0.25 mm
Barrel Diameter Outside (D1):	41.20 mm ± 0.75 mm
Barrel Collar Diameter (D2):	55.50 mm ± 0.75 mm
Piston Collar Diameter (D3):	42.05 mm ± 0.65 mm
Length (L):	215.00 mm ± 0.65 mm
Increment:	5.0 ml
Volume:	100.0 ml ±1.5% of volume

- The syringe is made from heat resistant borosilicate glass.
- The material and construction is resistant to breakage from shock and sudden temperature changes.
- It is annealed and tested until free of internal strain, to withstand repeated washing with hot water.
- Reinforced at 1/4" UNF threaded tip and barrel base, the points at which most breakage occur.
- The cylinder-plunger fit is leak proof and meets the requirements of Federal Specification GG -S- 921b.
- Plunger is individually ground and fitted to barrel for smooth movement with no back flow.
- Barrel rim is flat on both sides to prevent rolling and is wide enough for convenient finger tip grip.
- The syringes available in universal fit or custom fit design. The custom fit syringes are uniquely numbered for matching.
- The fitting is made from chrome-plated brass or SS-316.
- The syringe is clearly marked with graduations of 5.0 ml and 10.0 ml. The graduations are permanently fused for lifetime legibility.

### Glass Properties:

Expansion coefficient: 52 +/- 10<sup>-7</sup> / Centigrade  
 Density: 2.36g +/- 0.03g CM<sup>3</sup>  
 Modulus of elasticity: 64 +/- 10<sup>3</sup> mm<sup>-2</sup>  
 Water resistance: First Class  
 Acid resistance: First Class  
 Alkali resistance: First Class

Softening point: 785 @ degrees centigrade  
 Melting temperature: 1260 @ degrees centigrade  
 Strain point: 525 @ degrees centigrade  
 Annealing point: 570 @ degrees centigrade  
 Hardness: 7  
 Color: Clear