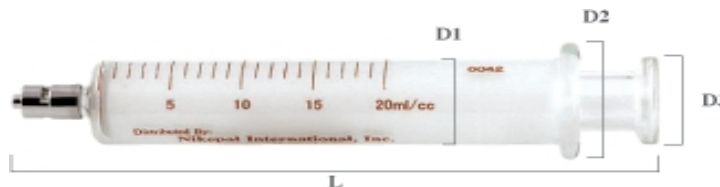




## 20.0 ml Volume Product Specifications



Catalog No.	Description
1005160	<b>20.0 ml Glass Syringe - Interchangeable borosilicate glass syringe with permanently fused graduations and unique identifier. Reinforced flanges are flat on two sides to avoid rolling. Supplied with metal luer-lock tip.</b>

### Dimensions

Piston Outside Diameter	20.40 mm ± 0.20 mm
Barrel Diameter Outside (D1)	24.20 mm ± 0.40 mm
Barrel Collar Diameter (D2)	33.25 mm ± 0.75 mm
Piston Collar Diameter (D3)	24.65 mm ± 0.65 mm
Length (L)	145.50 mm ± 0.50 mm
Increment	1.0 ml
Volume	20.0 ml ± 1.5% of volume

### Glass Properties

Expansion coefficient	52 ± 10 <sup>-7</sup> /centigrade
Density	2.36g ± 0.02g 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 °C
Melting temperature	1260 °C
Strain point	525 °C
Annealing point	570 °C
Hardness	7
Color	Clear

- 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 luer lock tip and barrel base, the points at which most breakage occurs.
- 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 metal luer lock tip meets the specification of American National Standards for Medical Materials luer taper fitting performance, HIMA MD 70.1 - 1983.
- The fitting is made from chrome-plated brass and fits all female luer lock fitting.
- The syringe is clearly marked with graduations of 1 ml and 5 ml. The graduations are permanently fused for lifetime legibility.

### How to reach NTT

For routine requests for information, you can contact us via phone, mail, or e-mail through the internet at [info@nttworldwide.com](mailto:info@nttworldwide.com) or through our website: <http://www.nttworldwide.com>

Business hours:	Pacific Standard Time	Monday through Friday 9:00 AM - 5:00 PM
Phone:	916-383-6800	Shipping/Mailing
Fax:	916-383-7794	Address:
Toll Free:	800-590-0688	Northern Technology & Testing 8140 Industrial Parkway, #8 Sacramento, CA 95824