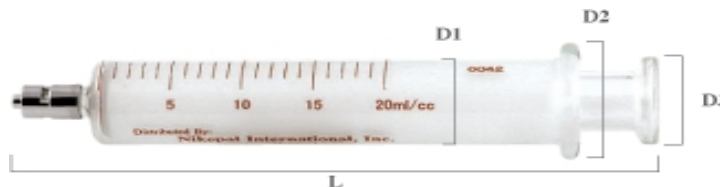




## 20.0 ml Volume Product Specifications



| 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>

|                 |                       |   |                               |
|-----------------|-----------------------|---|-------------------------------|
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| Phone:          | 916-383-6800          | Shipping/Mailing                        | Northern Technology & Testing |
| Fax:            | 916-383-7794          | Address:                                | 8140 Industrial Parkway, #8   |
| Toll Free:      | 800-590-0688          |   | Sacramento, CA 95824          |