

**K**D Scientific offers a new line of glass syringes to meet scientific applications in the laboratory environment. Over ten different sizes of glass syringes ranging from 1.0 ml to 50 ml are available.

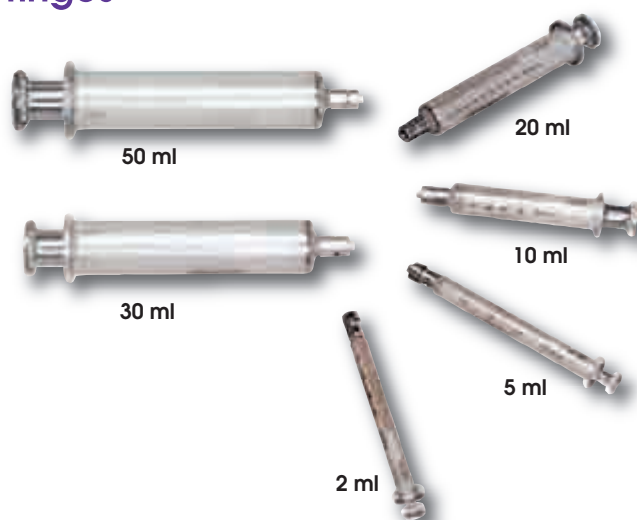
**A**ll syringes are made from heat resistant borosilicate glass. The material and construction are resistant to breakage from shock and sudden temperature changes. They are all annealed and tested until free of internal strain to withstand repeated washing.

# Premier Glass Syringes

## Glass Syringes

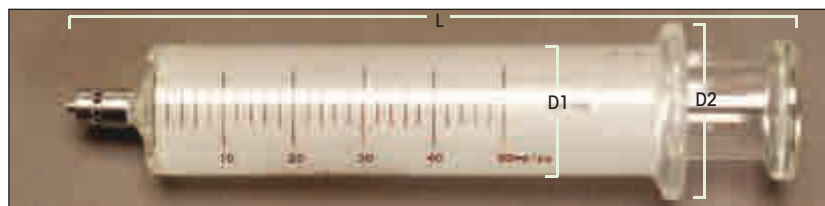
### Premium Line of Glass Syringes

- Easy to clean and maintain
- Accurate dispensing
- Reusable
- Economical
- Durable
- Chemically resistant
- Resistant to thermal shock



## Specifications

Min. Order Qty.	6	6	6	6	6	6	6
Volume*	1.0 ml	2.0 ml	5.0 ml	10.0 ml	20.0 ml	30.0 ml	50.0 ml
Barrel Inside Diameter (mm)	4.80 ±0.10	6.45 ±0.10	12.60 ±0.10	15.15 ±0.15	20.40 ±0.20	22.9 ±0.20	27.45 ±0.20
Piston Outside Diameter (in)	0.189 ±0.004	0.254 ±0.004	0.496 ±0.004	0.596 ±0.006	0.803 ±0.008	0.902 ±0.008	1.081 ±0.008
Barrel Diameter Outside (mm) D1	8.30 ±0.20	9.95 ±0.20	15.4 ±0.30	18.35 ±0.35	24.20 ±0.40	27.30 ±0.40	32.35 ±0.55
Barrel Diameter Outside (in) D1	0.327 ±0.008	0.392 ±0.008	0.606 ±0.012	0.722 ±0.014	0.953 ±0.016	1.075 ±0.016	1.274 ±0.022
Barrel Collar Diameter (mm) D2	14.95 ±0.50	16.40 ±0.50	22.25 ±0.75	26.20 ±0.75	33.25 ±0.75	37.55 ±0.75	44.00 ±0.75
Barrel Collar Diameter (in) D2	0.589 ±0.020	0.646 ±0.020	0.876 ±0.030	1.031 ±0.030	1.309 ±0.030	1.478 ±0.030	1.732 ±0.030
Piston Collar Diameter (mm) D	11.5 ±0.50	12.25 ±0.75	17.25 ±0.55	19.95 ±0.60	24.65 ±0.65	27.95 ±0.65	34.05 ±0.65
Piston Collar Diameter (in) D3	0.453 ±0.020	0.482 ±0.030	0.679 ±0.022	0.785 ±0.024	0.97 ±0.026	1.10 ±0.026	1.341 ±0.026
Length (mm) L	115.00 ±0.50	115.00 ±0.50	105.00 ±0.50	128.50 ±0.50	145.50 ±0.50	163.00 ±0.50	178.00 ±0.50
Length (in) L	4.528 ±0.020	4.528 ±0.020	4.134 ±0.020	5.059 ±0.020	5.728 ±0.020	6.417 ±0.020	7.008 ±0.020
Major Gradations (ml)	0.20	0.50	1.0	1.0	5.0	5.0	10
Minor Gradations (ml)	0.02	0.05	0.20	0.20	1.0	1.0	2.0
Order Code	78-0871	78-0872	78-0873	78-0874	78-0875	78-0876	78-0877



## Glass Properties

Volume	*±1.5% of rated volume
Expansion Coefficient	52 x 10 <sup>-7</sup> /°C
Density	2.36 g/cm <sup>3</sup> ±0.03 g/cm <sup>3</sup>
Modulus of Elasticity	64 x 10 <sup>3</sup> N/m <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