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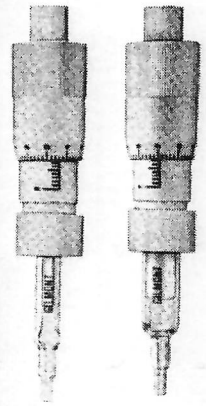
MICROMETER SYRINGES & BURETS

- **0.5% Accuracy**
- **Combines High Precision with Economy of Cost**
- **All Corrosion Resistant Plastic Parts**
- **Precision Bore Glass PTFE Plunger and VITON® fluoroelastomer O-ring**

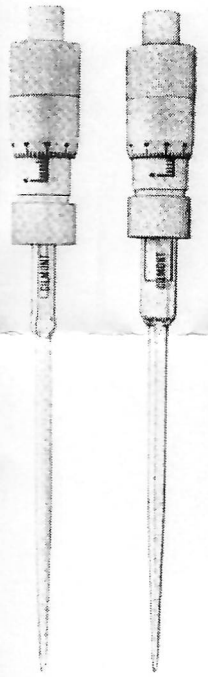
These syringes and burets represent the ultimate in simplicity of design and ease of operation. Just consider the following features:

- Liquid comes in contact with only glass, VITON and PTFE.
- VITON O-ring gives a vacuum tight seal.
- All other plastic parts of polypropylene—instrument may be autoclaved.
- Available in two sizes, 0.2 mL* in .0002 mL div. and 2.0 mL in .002 mL div.
- Fills and delivers liquid with micrometer control.
- Simple to clean and assemble.

*A slit (plastic) ring is furnished with this size.



GS-1100 GS-1200



GS-1100-A GS-1200-A

Syringes

Capacity in mL	Smallest Division mL	Complete Cat. No.	Glass Only Cat. No.
0.2	.0002	GS-1100	GS-1101
2.0	.002	GS-1200	GS-1201

Burets

Capacity in mL	Smallest Division mL	Complete Cat. No.	Glass Only Cat. No.
0.2	.0002	GS-1100-A	GS-1101-A
2.0	.002	GS-1200-A	GS-1201-A

SPARE PARTS LIST

Description	Size	Cat. No.
Plunger Screw Assembly	0.2	GS-1102
PTFE Washer	0.2	GS-1104
O-ring, VITON	0.2	GS-1105
O-ring, VITON	pkg/6	GS-1105/6
O-ring, E.P.R.	0.2	GS-1105-E
O-ring, PTFE	0.2	GS-1105-T
O-ring, PTFE	pkg/6	GS-1105-T/6
Slit Ring	0.2	GG-1115
Micrometer Assembly Compl.	0.2	GS-1110-CR
Micrometer Assembly Compl.	2.0	GS-1210-CR
Micrometer Nut	0.2 or 2.0	GS-1121
Micrometer Barrel	0.2 or 2.0	GS-1122
Micrometer Sleeve	0.2 or 2.0	GS-1123
Micrometer Lock Nut	0.2 or 2.0	GS-1124
Plunger Screw Assembly	2.0	GS-1202
PTFE Washer	2.0	GS-1204
O-ring, VITON	2.0	GS-1205
O-ring, VITON	pkg/6	GS-1205/6
O-ring, E.P.R.	2.0	GS-1205-E
O-ring, PTFE	2.0	GS-1205-T
O-ring, PTFE	pkg/6	GS-1205-T/6

DIRECTIONS

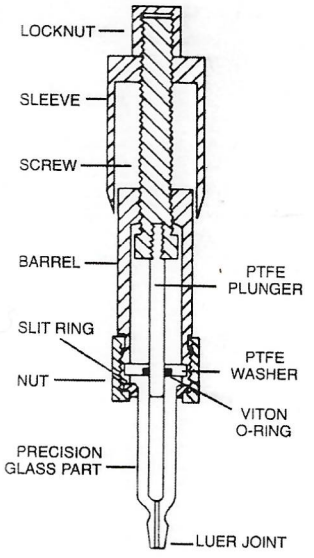
ASSEMBLY—This instrument is assembled as shown in the diagram for the 0.2 mL capacity syringe. The assembly is the same for the buret, except that the glass part has the buret tip in place of the Luer joint. The assembly for the corresponding 2.0 mL capacity instruments is the same except that a different size glass part, O-ring, PTFE washer, and PTFE plunger are used. The Luer joint of the glass part is for quick and simple attachment of the hypodermic needle.

FILLING—The instrument is filled like a conventional syringe except that the plunger is operated by the micrometer screw rather than the push-pull motion of the ordinary syringe. With the plunger all the way into the glass part, the tip of the needle of the syringe or tip of the buret is immersed below the liquid surface. The micrometer screw is retracted to suck liquid into the glass part. Trapped air is eliminated by placing the instrument in a vertical position with the tip up, tapping gently and screwing the plunger back in until all air is expelled. The tip is returned to the liquid and the screw is retracted all the way back until past the zero.

DISPENSING—The screw is turned until the reading is exactly zero and excess liquid is carefully wiped from the tip. The micrometer is now advanced until the desired amount of liquid is dispensed. For the 0.2 mL capacity, each division on the sleeve corresponds to 0.0002 mL and each division on the barrel to 0.01 mL or one complete rotation of the sleeve. For the 2.0 mL capacity, each sleeve division is 0.002 mL and each barrel division is ±1 mL. Accuracy is ±0.5% of the reading of ±1 division, whichever is the greater.

CLEANING—The simple construction makes it easy to disassemble for cleaning. All parts may be cleaned in the usual manner with a mild detergent and sterilized (do not exceed 250° F) if necessary since they are all heat resistant. After cleaning and drying, the parts are assembled as shown and the instrument is ready for use again.

SCHEMATIC OF 0.2 mL SYRINGE



DIMENSIONS — SYRINGE: 5 1/2 in x 1 in D
BURET: 10 in x 1 in D

CAUTION: *Do not clean graduations with organic solvents. Use detergent.*

VITON - Reg TM DuPont Dow Elastomers L.L.C.
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