

## DPM Dispensing & Transfer Peristaltic Pump



DPM Dispensing and Transfer Peristaltic Pump

- Can be used for:
  - Dispensing aliquots
  - Filling vials
  - Batch transfers
- Menu driven for easy operation
- Soft start and stop reduces splashing
- End-of-dose reversing prevents drips
- Wide flow rate range (100:1)
- Compatible with a wide range of tubing sizes and materials

The DPM Pump is designed for precise fluid dispensing or transfer at flow rates up to 3.0 L/min. It is controlled via a membrane keypad. It is menu-driven to easily enter the dose size, and calibration information in milliliters or grams. The DPM has a ramp feature that softly starts and stops the pump to prevent splashing, and an end-of-dose reversing feature that prevents dripping. Calibration is easy, using resident values based on the tube size, or you can calibrate by actual dispense weight or volume. 'On the fly' calibration allows quick recalibration without batch interruption. Works with all peristaltic pump compatible tubing with a wall thickness of 1.59 mm (1/16 in).

Two different modes of operation are available: dispense mode and manual mode. In Dispense Mode, the dispense is set up by specifying required volume, number of dispenses, and pump speed. The pump can be set to dose after a time interval or by initiation from a foot switch or other device. Manual Mode is used for continuous metering or transfer. When used in manual mode, the pump has a 100:1 flow range of 0.1 ml/min to 3.0 L/min. The display can be toggled to read as either RPM or flow rate.



Boxed Set of Filling Needles

### Specifications

Speed Range	3 to 300 RPM
Voltage	100 to 120 VAC/220 to 240 VAC, 50/60 Hz (switchable)
Standards	IEC 335-1, EN60529 (IP31), EC
Dimensions, H x W x D	12 x 22 x 32 cm (4.75 x 8.75 x 12.63 in)
Shipping Weight	9 kg (20 lb)

### Catalog No. Product

CGS 8137.63	DPM Dispensing and Transfer Pump
CGS 8138.63	Foot Switch
CGS 8139.63	Hand Switch
CGS 8140.63	Filling Stand. A heavy-duty stainless steel ring stand which has a needle holder, and guide to center a vial under a dispensing needle during filling.
CGS 8141.63	Proximity Switch (stainless steel construction). An automatic sensor that mounts to the filling stand and triggers a dose dispense once a vial is placed under the dispensing needle.
CGS 8142.63	Boxed Set of Filling Needles (set of 5). Stainless steel needles in 5 different sizes to accommodate the various tube sizes available. The needle is mounted in the filling stand and the tube is connected to the needle.
CGS 8143.63	Filling Needle, 1.6 mm bore
CGS 8144.63	Filling Needle, 3.2 mm bore
CGS 8145.63	Filling Needle, 4.8 mm bore
CGS 8146.63	Filling Needle, 6.4 mm bore
CGS 8147.63	Filling Needle, 8.0 mm bore
CGS 8148.63	Dispensing Lance (stainless steel construction). Replaces the filling stand needle holder and has a switch on the end to start the dose. The Lance can also be hand-held to direct the needle over any container and the dispense is initiated by pressing the thumb activated switch.

### Flow Rate for DPM Pump

Tube Size (mm, in) <sup>A</sup>	0.5, 1/50	0.8, 1/32	1.6, 1/16	3.2, 1/8	4.8, 3/16	6.4, 1/4	8.0, 5/16
ml/sec <sup>B</sup>	0.21	0.62	2.13	9.33	20.2	31.7	50.0

### Accuracy (min dispense (ml) based on accuracy required vs. tube bore)

Tube No.	0.5, 1/50	0.8, 1/32	1.6, 1/16	3.2, 1/8	4.8, 3/16	6.4, 1/4	8.0, 5/16
±0.5%	0.67	1.92	6.9	29.8	65	102	160
±1.0%	0.38	1.08	3.9	16.7	36	57	90
±2.0%	0.17	0.48	1.7	7.4	16	25	40

### Transfer Flow Rate (ml/min)

Tube Size (mm, in) <sup>A</sup>	0.5, 1/50	0.8, 1/32	1.6, 1/16	3.2, 1/8	4.8, 3/16	6.4, 1/4	8.0, 5/16
Min	0.1	0.4	1.3	5.6	12.0	19.0	30.0
Max <sup>B</sup>	12.5	37.0	128	560	1210	1900	3000