



ADVANCED LIQUID HANDLING, INC.

## MBP.5 Syringe Pump

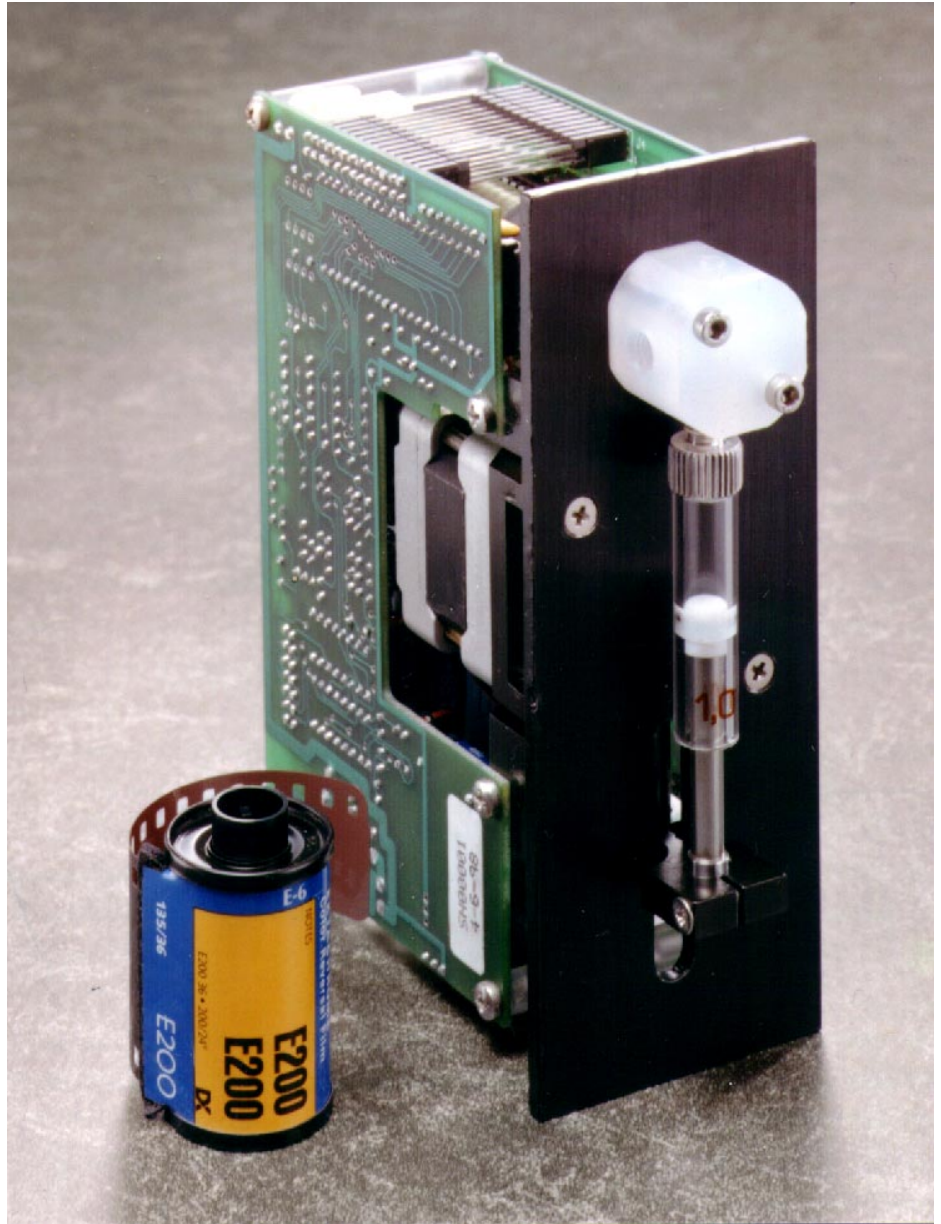
The **MBP.5** is the new petite solution for microliter fluid handling - simple, straight forward, yet advanced. The pump produces precise displacement for the aspiration and dispensing of a wide variety of fluids for many applications.

All of the **MBP** syringe pumps have a proven, patented **zero backlash** drive mechanism that provides for: less syringe wear; no backlash compensation programming; near absolute linearity; and quiet and precise operation in the microliter range for many years.

### COMPATIBILITY & CONVENIENCE

This mechanism is available with industry standard electronics. An inert valve and interconnect components make it compatible with standard diagnostic fluids and reagents.

The compact **MBP.5** can be easily integrated into new product designs to provide a smaller footprint.



## Fit Two in the Space of One

### Specifications

<b>Size:</b>	As Shown: 5"(127mm)H x 1.75"(45mm)W x 3.5"(89mm)D (behind panel)	<b>Valve:</b>	Teflon & Kel-F 3/4 way shear (as shown)
<b>Weight:</b>	Approximately 21oz (600g)	<b>Power:</b>	Syringe Drive: 0.95 amp @ 4VDC Valve Drive: 0.20 amp @ 4.5VDC
<b>Capacity:</b>	Maximum syringe volume: 2.5 ml		Sensors: 5VDC optical (totem pole output)
<b>Measured Volume:</b>	Min: 0.001 x syringe volume Max: syringe volume	<b>Firm ware:</b>	Hamilton ML-OEM® or Cavro XL3000® protocol emulation
<b>Force:</b>	Up to 9 lbf (4 kgf)		
<b>Speed:</b>	Syringe: Maximum 1 second full stroke Valve: 1/4 to 1/2 second switch time	<b>Accuracy and Precision:</b>	Accuracy and precision are typically better than 1% and 0.01%, respectively depending on electronics, software and hydraulic connections.
<b>Resolution:</b>	2000 steps		
<b>Stroke:</b>	30mm		

Specifications subject to change without prior notice. ®Registered Trademarks are the property of their respective owners.

## ADVANCED LIQUID HANDLING, INC.

240 N. Milwaukee Street, 3rd Floor, Milwaukee, WI 53202 • Tel: (414) 225-0490 • Fax: (414) 225-0549 • <http://www.ALHinc.com>

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