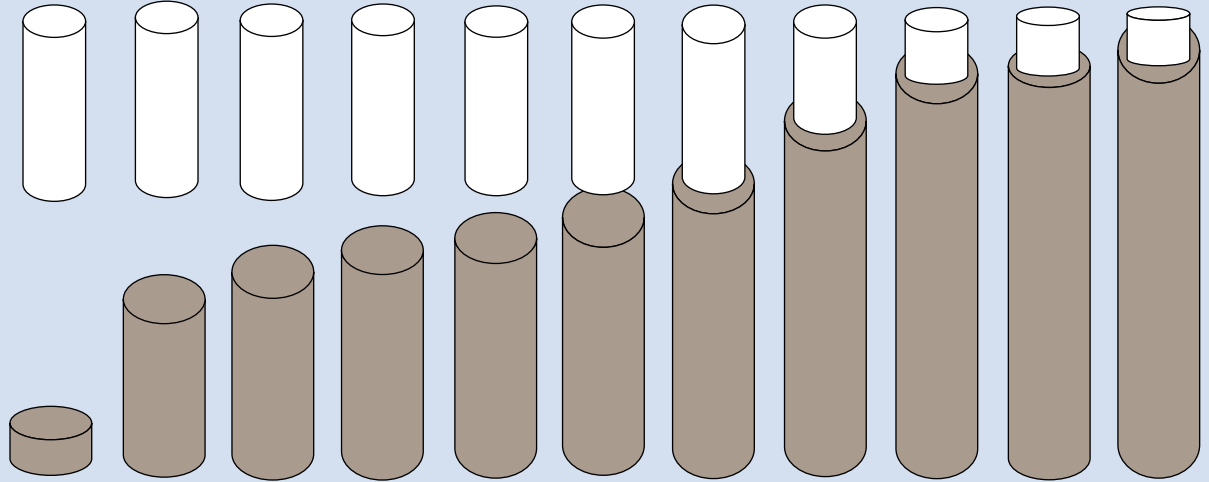


**SPECIFICATIONS**

**ACTUAL PISTON HEIGHT & POSITION**



<b>% full stroke</b>	100%	10%	4%	1.8%	1.00%	0.71%	0.54%	0.36%	0.10%	0.04%	0.02%
<b>Volume in µL</b>	2,800	280	100	50	28	20	15	10	2.8	1	<b>0.5</b>
<b>Piston mode</b>	Single	Single	Single	Single	Single	Single	Dual	Dual	Dual	Dual	Dual
<b>SD in µL</b>	0.20	0.20	0.20	0.20	0.20	0.20	0.005	0.005	0.005	0.005	0.005
<b>CV %</b>	0.01%	0.07%	0.20%	0.40%	0.71%	1.00%	0.03%	0.05%	0.18%	0.50%	<b>1%</b>
<b>Resolution µL/step</b>	1.5486	1.5486	1.5486	1.5486	1.5486	1.5486	0.0124	0.0124	0.0124	0.0124	0.0124
<b>Travel in steps</b>	1808	181	65	32	18	13	1210	806	226	81	40
<b>inches</b>	0.8679	0.0868	0.0310	0.0155	0.0087	0.0062	0.5806	0.3871	0.1084	0.0387	0.0194
<b>mm</b>	22.04	2.20	0.79	0.39	0.22	0.16	14.75	9.83	2.75	0.98	0.49
<b>max. flow µL/sec</b>	2700	2700	2700	2700	2700	2700	22	22	22	22	22

**Resolution Multiplier:** (CV Controller) in Dual Mode is 125. Resolution becomes 125 times smaller when entering Dual mode. (SD multiplier effect shown is only 40X smaller because the 5-place balance used could not distinguish lowest volumes.)

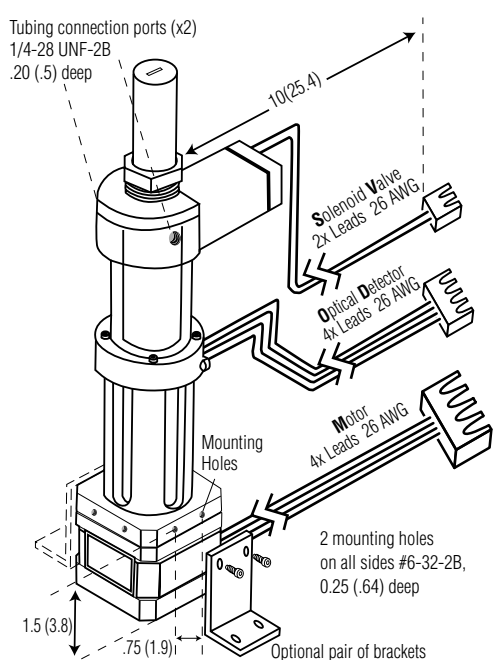
**1% CV limits:** 1% CV is obtained down to 0.5 µL in the Dual and 20 µL in the Single piston mode.

**Accuracy:** 99.5% at all volumes (compensated for backlash and evaporation at low volumes)

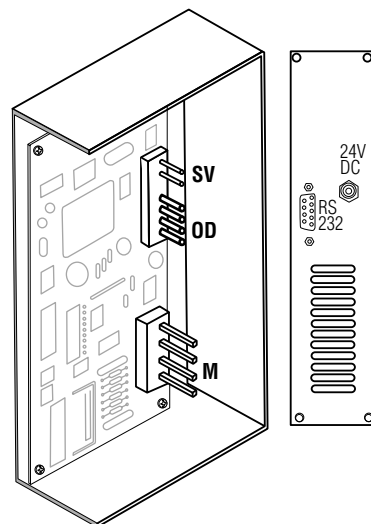
**Volume range:** Dual piston range up to 15 µL. Single piston range up to 2.8 mL.

**Maximum speed:** 1,750 steps/second.

**Seal replacement:** Typically 1 million cycles.

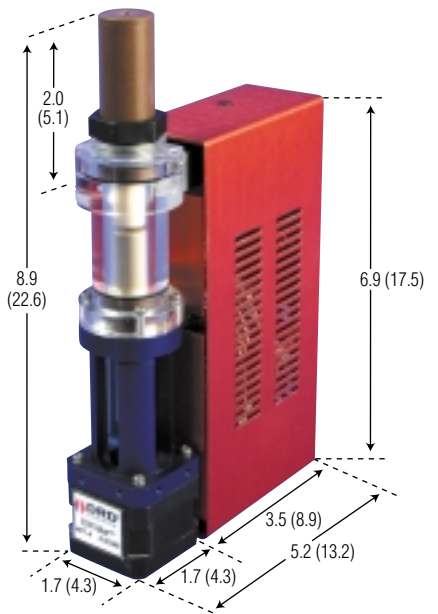


**BARE BONES PUMP**  
(with optional valve) with 10" wire leash



**CONTROL POD**

RS-232 Serial, Baud rate 57,6000 12-38  
Volts @ 2.0 Amps, 50-60 Hz, 110-240  
VAC with DC power supply.



**COMPLETE PUMP**  
with electronic Control Pod attached