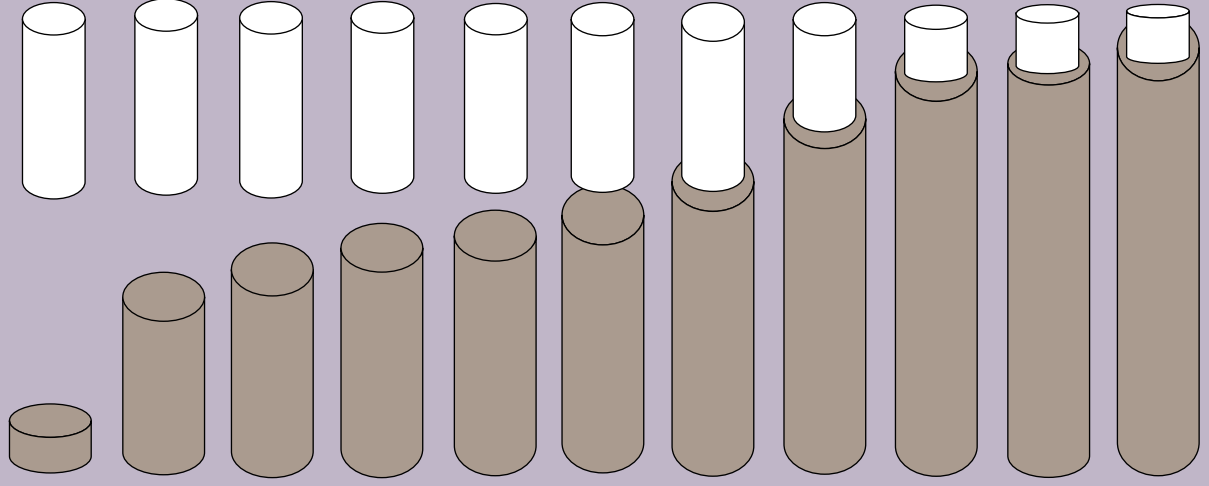


SPECIFICATIONS

ACTUAL PISTON HEIGHT & POSITION



% full stroke	100%	54%	18%	12.5%	10.71%	10.00%	8.57%	3.57%	1.00%	0.10%	0.07%
Volume in µL	2,800	1,500	500	350	300	280	240	100	28	2.8	2
Piston mode	Single	Single	Single	Single	Single	Single	Dual	Dual	Dual	Dual	Dual
SD in µL	0.20	0.20	0.20	0.20	0.20	0.20	0.02	0.02	0.02	0.02	0.02
CV %	0.01%	0.01%	0.04%	0.06%	0.07%	0.07%	0.01%	0.02%	0.07%	0.71%	1%
Resolution µL/step	1.5486	1.5486	1.5486	1.5486	1.5486	1.5486	0.1686	0.1686	0.1686	0.1686	0.1686
Travel in steps	1808	969	323	226	194	181	1423	593	166	17	12
inches	0.8679	0.4649	0.1550	0.1085	0.0930	0.0868	0.6833	0.2847	0.0797	0.0080	0.0057
mm	22.04	11.81	3.94	2.76	2.36	2.20	17.36	7.23	2.02	0.20	0.14
max. flow µL/sec	2700	2700	2700	2700	2700	2700	295	295	295	295	295

Resolution Multiplier: (CV Controller) in Dual Mode is 9. Resolution becomes 9 times smaller when entering Dual mode.

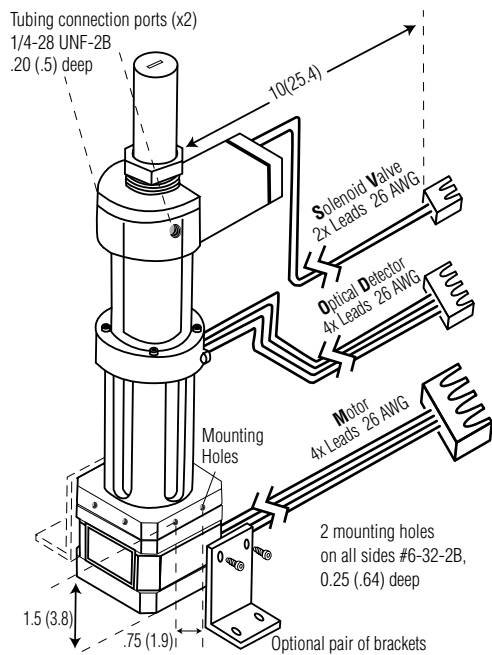
1% CV limits: 1% CV is obtained down to 2 µL in the Dual and 20 µL in the Single piston mode

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

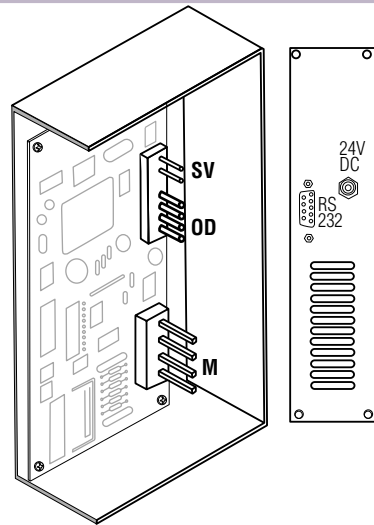
Volume range: Dual piston range up to 240 µL. Single piston range up to 2.8 mL.

Maximum speed: 1,750 steps/second

Seal replacement: Typically 1 million cycles.

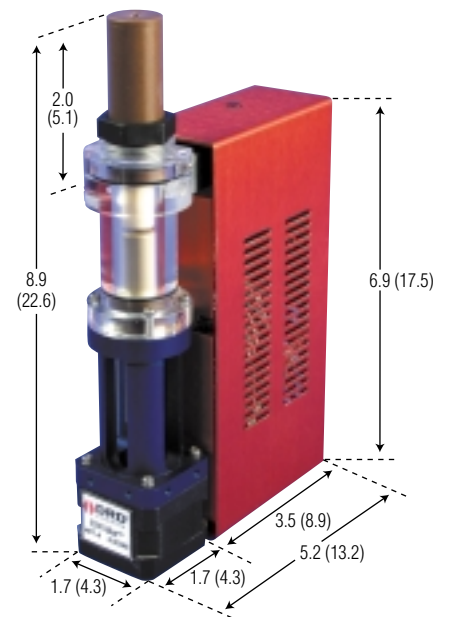


BARE BONES PUMP
(with optional valve) with 10" wire sealh



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