

New Era Pump Systems Inc.
www.SyringePump.com
NE-1002X / NE-4002X / NE-4502X Micro-Fluidic Syringe Pumps

Syringe Manufacturer (all names TM)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (µl/hr)	Minimum Rate (nl/hr)	Maximum Rate (µl/min)				
B-D	1	4.699	2335	14.59	38.92				
	3	8.585	7796	48.68	129.9				
	5	11.99	9999	94.95	253.4				
	10	14.43	9999	137.6	367				
	20	19.05	9999	239.7	639.7				
	30	21.59	9999	307.9	821.7				
HSW Norm-Ject	1	4.69	2326	14.53	38.77				
	3	9.65	9850	61.51	164.1				
	5	12.45	9999	102.4	273.2				
	10	15.9	9999	167	445.6				
	20	20.05	9999	265.5	708.7				
	30	22.9	9999	346.4	924.5				
Monoject	1	5.74	3485	21.76	58.08				
	3	8.941	8456	52.8	140.9				
	6	12.7	9999	106.6	284.3				
	12	15.72	9999	163.3	435.6				
	20	20.12	9999	267.4	713.6				
	35	23.52	9999	365.4	975.2				
Terumo	1	4.7	2336	14.59	38.94				
	3	8.95	8473	52.91	141.2				
	5	13	9999	111.7	297.9				
	10	15.8	9999	164.9	440.1				
	20	20.15	9999	268.2	715.8				
	30	23.1	9999	352.5	940.7				
Poulten & Graf (Glass)	1	6.7	4748	29.65	79.14				
	2	8.91	8397	52.44	139.9				
	3	9.06	8682	54.22	144.7				
	5	11.75	9999	91.19	243.4				
	10	14.67	9999	142.2	379.4				
	20	19.62	9999	254.3	678.6				
Steel Syringes	1	9.538	9.623	0.061	0.1603				
	3	9.538	9.623	0.061	0.1603				
	5	12.7	17.06	0.107	0.2843				
	8	9.538	9.623	0.061	0.1603				
	20	19.13	38.71	0.242	0.6451				
	50	28.6	86.52	0.541	1.442				
SGE (Glass – Gas Tight)	5	0.343	12.44	0.078	0.25	2.303	561	3.503	
	10	0.485	24.88	0.156	0.5	3.257	1122	7.006	
	25	0.728	56.06	0.351	1	4.606	2244	14.02	
	50	1.03	112.2	0.701	2.5	7.284	5612	35.05	
	100	1.457	224.5	1.403	5	10.3	9999	70.07	
Hamilton Microliter (Glass)	0.5	0.103	1.122	0.008	10	14.57	9999	140.3	
	1	0.146	2.254	0.015	25	23.03	9999	350.3	
	2	0.206	4.488	0.029	50	27.5	9999	499.5	
	5	0.326	11.24	0.071	100	34.99	9999	808.6	