

Syringe Manufacturer (all names TM)	Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)	Minimum Rate (μL/hr)	Maximum Rate (mL/min)			
B-D	1	4.699	2454	13.61	40.9			
	3	8.585	8192	45.42	136.5			
	5	11.99	9999	88.59	266.3			
	10	14.43	9999	128.4	385.7			
	20	19.05	9999	223.7	672.3			
	30	21.59	9999	287.3	863.5			
	60	26.59	9999	435.7	1309			
HSW Norm-Ject	1	4.69	2445	13.56	40.75			
	3	9.65	9999	57.39	172.5			
	5	12.45	9999	95.51	287.1			
	10	15.9	9999	155.8	468.3			
	20	20.05	9999	247.8	744.7			
	30	22.9	9999	323.2	971.5			
	50	29.2	9999	525.4	1579			
Monoject	1	5.74	3662	20.31	61.04			
	3	8.941	8886	49.26	148.1			
	6	12.7	9999	99.39	298.8			
	12	15.72	9999	152.3	457.8			
	20	20.12	9999	249.5	749.9			
	35	23.52	9999	340.9	1024			
	60	26.64	9999	437.3	1314			
	140	38	9999	890	2675			
Terumo	1	4.7	2455	13.62	40.92			
	3	8.95	8904	49.36	148.4			
	5	13	9999	104.2	313			
	10	15.8	9999	153.9	462.4			
	20	20.15	9999	250.2	752.2			
	30	23.1	9999	328.8	988.5			
	60	29.7	9999	544	1634			
Poulten & Graf (Glass)	1	6.7	4989	27.67	83.16			
	2	8.91	8824	48.92	147			
	3	9.06	9124	50.58	152			
	5	11.75	9999	85.08	255.7			
	10	14.67	9999	132.7	398.7			
	20	19.62	9999	237.2	713.1			
	30	22.69	9999	317.3	953.8			
	50	26.96	9999	447.9	1346			
Steel Syringes	1	9.538	9999	56.06	168.5			
	3	9.538	9999	56.06	168.5			
	5	12.7	9999	99.39	298.8			
	8	9.538	9999	56.06	168.5			
	20	19.13	9999	225.5	677.9			
	50	28.6	9999	504.1	1515			
		Syringe (μL)	Inside Diameter (mm)	Maximum Rate (μL/hr)	Minimum Rate (μL/hr)	SGE Syringe (mL)	Inside Diameter (mm)	Maximum Rate (mL/hr)
SGE (Glass – Gas Tight)	5	0.343	9999	0.073	0.25	2.303	589.5	3.269
	10	0.485	9999	0.145	0.5	3.257	1179	6.537
	25	0.728	9999	0.327	1	4.606	2358	13.08
	50	1.03	9999	0.654	2.5	7.284	5897	32.7
	100	1.457	9999	1.309	5	10.3	9999	65.38
Hamilton Microliter (Glass)	0.5	0.103	1179	0.007	10	14.57	9999	130.9
	1	0.146	2369	0.014	25	23.03	9999	326.9
	2	0.206	4717	0.027	50	27.5	9999	466
	5	0.326	9999	0.066	100	34.99	9999	754.4

Specifications

<u>Model</u>	<u>Style</u>	<u>Stall Detection</u>	<u>Number of Syringes</u>	<u>Maximum Syringe Size</u>
NE-570	OEM	No	1	60 mL; 140 mL partially filled

Mechanical

Motor type:	Step motor
Motor steps per revolution:	200
Motor to drive screw ratio:	60/15
Drive screw pitch:	16 revolutions/”
Micro-stepping:	1/8 to 1 depending on motor speed
Advance per step:	3.96875 µm to 31.75 µm depending on motor speed
Dimensions:	9.5” x 4.25” x 2.875” (LxWxH) (24.13 cm x 10.795 cm x 7.3025 cm)
Weight:	3.8 lbs. (1.63 kg)

Electrical

Power supply type:	External wall adapter, power source specific
Power supply output rating:	24V DC @ 1000 mA
Power connector:	2.1 mm, center positive, DC
Voltage at Power connector:	24V DC at full load
Amperage:	1000 mA at full load

Operational

Maximum force:	25 lbs. at minimum speed, 5 lbs. at maximum speed
Syringe inside diameter range:	0.100 to 50.00 mm
Maximum speed:	235.9742 cm/min
Minimum speed:	0.078484 cm/hr
Maximum pumping rate:	1309 mL/min with a B-D 60 mL syringe
Minimum pumping rate:	13.61 µL/hr with a B-D 1 mL syringe
Number of Program Phases:	41
RS-232 pump network:	100 pumps maximum
RS-232 selectable baud rates:	300, 1200, 2400, 9600, 19200