

520Di and 520DiN

520 series dispensing pumps

Flexicon
Liquid Filling

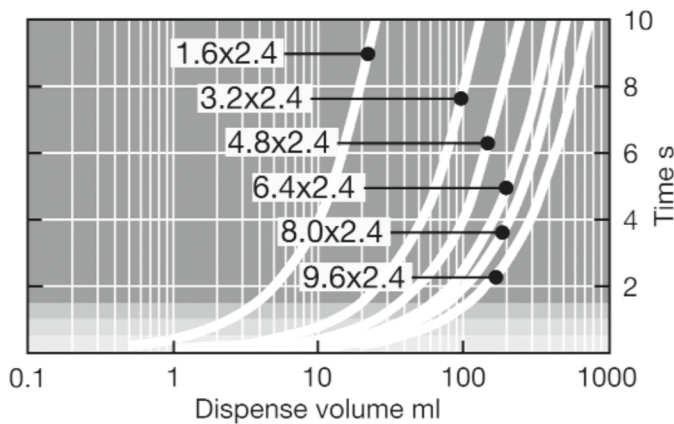
Features and benefits

- Fully automated aseptic fill/finish in biopharmaceutical and pharmaceutical drug manufacturing
- Countertop media or reagent preparation in laboratory suites – filling or inoculating bottles, vials, Petri dishes and media bags
- Five-year warranty NEMA2 and NEMA4X (IP66 and IP31) enclosure for high-pressure washdown environments
- Addition of colors, dyes, flavors, vitamins, and other ingredients in food production



520Di and 520DiN performance

505L pumphead — Flow rates (ml/min)							
Tube Material	Speed	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
Pumpsil®, GORE® STA-PURE® Pump Tubing-Series PCS, GORE® STA-PURE® Pump Tubing - Series PFL	0.1-350rpm	0.04-150	0.23-800	0.42-1500	0.70-2500	0.90-3200	NA
Marprenne®, Bioprene®	0.1-350rpm	0.04-130	0.17-500	0.38-830	0.67-2000	1.10-3200	NA
505L pumphead recommended dose sizes							
	Tube bore	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
maximum speed 350rpm	Minimum dose	0.9ml	4.5ml	8.5ml	14ml	18ml	25ml
	Maximum dose	15ml	75ml	150ml	250ml	300ml	400ml



Dispense volume against time for the 520Di/L pump with a selection of tubes. Dispensing accuracy is indicated by the background shade

- within $\pm 5.0\%$
- within $\pm 2\%$
- within $\pm 1.0\%$
- within $\pm 0.5\%$

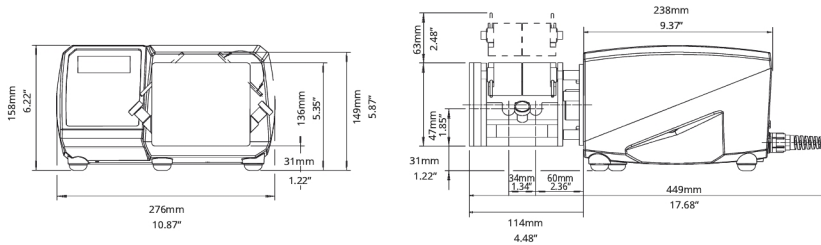
Technical specifications

	520Di and 520DiN
Accuracy	±0.5 %
Ingress rating	IP31, IP66, NEMA 2, NEMA 4X
Operating temperature range	5 to 40 °C
Operating temperature range	40 to 104 °F
Speed control ratio	2200:1
Humidity	(Condensing) 10-100% RH, (Non-condensing) 80% up to 31°C (88°F), decreasing linearly to 50% at 40C (104F)
Noise	<70dBb(A) at 1m
Standards	CE, cETLus
Power supply	110/230 V, 50/60 Hz, Single-phase
Weight	9.82 - 10.7 kg
Weight	21.63 - 23.56 lbs
Compatible tubing size	1.6 mm ID, 3.2 mm ID, 4.8 mm ID, 6.4 mm ID, 8.0 mm ID, 9.6 mm ID

Materials of construction

	520Di and 520DiN
Bearings	Stainless steel
Casework	Pressure die-cast aluminum LM24
Keypad/HMI	Polyester
Pumphead roller assembly	Stainless steel 316
Seals	PTFE

520Di and 520DiN dimensions



Control options

Pump drives	520Di	520DiN
Enclosure		
Ingress protection rating	IP31	IP66
Manual control		
Digital speed control with full calibration to display flow	✓	✓
Choice of flowrate or speed display	✓	✓
Numerical keypad for entry of speed	✓	✓
Remote control		
Run/Stop, direction change, auto/manual toggle, leak detector input (via contact closure or 5V TTL or 24V industrial logic)	✓	✓
Remote operation of Dosestart with instantaneous switch	✓	✓
Four programmable digital status outputs through 24V, 30W relays		✓
Digital communication		
Digital network serial control	RS232	RS485
Security		
Security code to protect set-up, programs and dose parameters	✓	✓

Product codes

Pump and pumphead product codes						
Description	Partcode	Description	Partcode			
505L Low pulse twin channel pumphead	053.4001.000	520Di (IP31) drive only	056.7171.000*			
505LX Low pulse twin channel extension pumphead	053.4011.000	520DiN (IP66) drive only	056.717N.000**			
505LG Low pulse twin channel pumphead for STA-PURE® tubing	053.4010.00G	505LTC Tube clamp set for 505L pumphead	059.4001.000			
* Supplied as 2.4m mains lead without plug. To specify American, European, United Kingdom, Australian, Argentinian or Swiss 2.8m mains lead please specify A, E, U, K, R or C respectively. Replace the last zero with the mains lead code. For example - 050.7131.10A is a 520S/R pump with American mains lead. ** Supplied as 2.4m mains cable without a plug. To specify American mains lead please replace the last zero with A.						
Tube ordering codes						
Double Y tubing elements for 520DiL dispenser						
Bore (mm)	Bioprene TL	Marprene TL	Pumpsil	Pumpsil-D	STA-PURE® PCS	STA-PURE® PFL
1.6	933.E016.K24	902.E016.K24	913.AE16.K24	913.DE16.K24	960.E016.K24	965.E016.K24
3.2	933.E032.K24	902.E032.K24	913.AE32.K24	913.DE32.K24	960.E032.K24	965.E032.K24
4.8	933.E048.K24	902.E048.K24	913.AE48.K24	913.DE48.K24	960.E048.K24	965.E048.K24
6.4	933.E064.K24	902.E064.K24	913.AE64.K24	913.DE64.K24	960.E064.K24	965.E064.K24
8	933.E080.K24	902.E080.K24	913.AE80.K24	913.DE80.K24	960.E080.K24	965.E080.K24
9.6	933.E096.K24	902.E096.K24	913.AE96.K24	913.DE96.K24		

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