

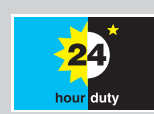
520Di/R2 IP31 and 520DiN/R2 IP66 pumps fitted with 520R2 pumphead for 2.4mm wall tubing

500series

Flexicon Liquid Filling

FEATURES

- Single channel dispensing pump which uses continuous tubing
- Flow rates from 0.004 ml/min (0.00006 USGPH) to 3.5 litre/min (55.48 USGPH) using 2.4mm wall thickness tubing
- Full calibration by weight or by volume with choice of units
- "Suck-back" facility eliminates drips at dose end, plus ramps ensure soft start and end of dose
- Up to 50 dispensing programs including dose parameters and calibration can be stored in the memory with full file name
- 520R2 pumphead features large swept volume with sprung rollers for high accuracy, gentle pumping of shear-sensitive fluids



Flexicon...Filled with experience

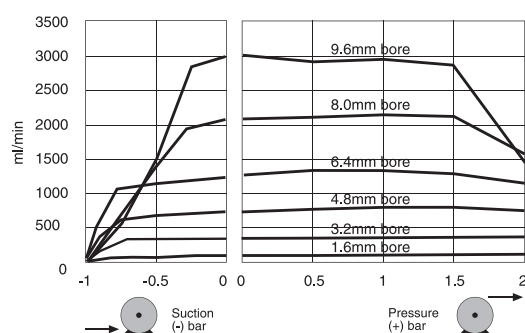
TECHNICAL DATA

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	•	•
Outputs as per IP31	•	

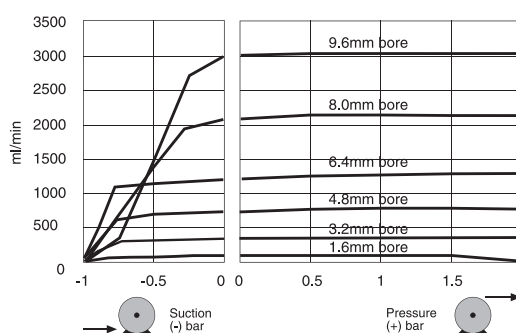
PERFORMANCE

LoadSure® element tubing flow rates (ml/min)							
Tube material	Speed	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
Pumpsil, STA-PURE® Series PFL and Series PCS, Neoprene	0.1 to 300rpm	0.04-130	0.18-530	0.40-1200	0.70-2100	1.1-3300	1.6-4800
Marprene TL, Bioprene TL	0.1 to 300rpm	0.04-130	0.17-500	0.38-1100	0.67-2000	1.1-3200	1.5-4500

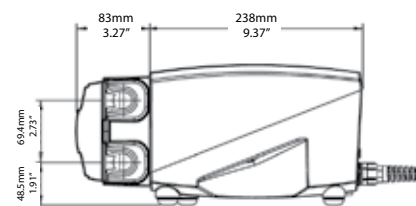
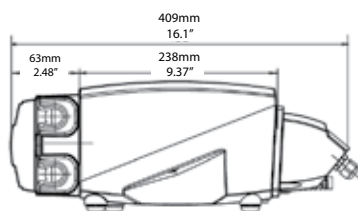
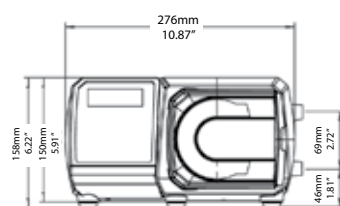
Clockwise rotation 200rpm



Counter clockwise rotation 200rpm



DIMENSIONS



SPECIFICATIONS

	520Di	520DiN
Ingress rating	IP31 / NEMA 2	IP66 / NEMA 4X
Enclosure	Wipedown	Watertight, dustproof
Suitability	Dry industrial environments with noncorrosive atmospheres	Corrosion resistant for heavy industrial environments
Humidity	(Non-condensing) 80% to 31C (88F) decreasing linearly to 50% at 40C (104F)	(Condensing) 10-100% RH
Temperature	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)
Pump weight	9.82kg (21lb 10oz)	10.7kg (23lb 9oz)
Speed control ratio	2200:1	2200:1
Torque rating	2.2Nm, continuous duty	2.2Nm, continuous duty
Noise	< 70dB(A) at 1m	< 70dB(A) at 1m
Standard	CE, cETLus	CE, cETLus

MATERIALS OF CONSTRUCTION

Component	Material
Keypad	Polyester
Switch-plate	Glass filled ABS plastic
Rear blanking plate	Stainless steel 304
Drive casework	Pressure die-cast aluminium LM24
Case work coating	Alcrom pre-treatment, exterior grade polyester powder coat
Drive shaft	Electroless nickel plated carbon steel
Pumphead track	PPS (polyphenylene sulphide)
Guard	Polycarbonate
Guard seal	Neoprene
Rotor hub	Stainless steel 316
Roller arms, rotor cover	PPS (polyphenylene sulphide)
Rollers - main/ guide	Stainless steel 316
Main roller bearings	Stainless steel with PTFE seals
Drain port and nut	PP (polypropylene)
Drain plug	Hytrell

ORDER INFORMATION

Product codes			
Description	Partcode	Description	Partcode
520REL element pumphead only	053.1011.EL0	520Di (IP31) drive only	056.7171.000*
520Di/R2 (IP31) pump	050.7171.2L0*	520DiN (IP66) drive only	056.717N.000*
520DiN/R2 (IP66) pump	050.717N.2L0	Leak detector 520Di	059.8121.000
		Leak detector 520DiN	059.8131.000

* Supplied as 2.4 metre 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.

Tubing 2.4mm wall thickness tubing for 520R2						
Tube bore	Tube	Pumpsil	PureWeld XL	Bioprene	STA-PURE® PCS	STA-PURE® PFL
1.6mm (1/16in)	119	913.A016.024		933.0016.024	960.0016.024	965.0016.024
3.2mm (1/8in)	120	913.A032.024		933.0032.024	960.0032.024	965.0032.024
4.8mm (3/16in)	15	913.A048.024		933.0048.024	960.0048.024	965.0048.024
6.4mm (1/4in)	24	913.A064.024		933.0064.024	960.0064.024	965.0064.024
8.0mm (3/16in)	121	913.A080.024	941.0064.024	933.0080.024	960.0080.024	965.0080.024
9.6mm (3/8in)	122	913.0096.024		933.0096.024	960.0096.024	965.0096.024
Tube bore	Tube	Marpene	GORE® Style 400			
1.6mm (1/16in)	119	902.0016.024	964.0048.024			
3.2mm (1/8in)	120	902.0032.024				
4.8mm (3/16in)	15	902.0048.024				
6.4mm (1/4in)	24	902.0064.024				
8.0mm (3/16in)	121	902.0080.024				
9.6mm (3/8in)	122	902.0096.024				

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Flexicon
Liquid Filling

wmftg.com
info@wmftg.com
+44 (0) 1326 370370