530 Drive with 520REL **Pumphead**



500 series cased pump

Features and benefits

- Color display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.0006 GPH (0.004 ml/min) to 55.48 GPH (3.5 L/min)
- 520R, 520R2, 520REL, 520REM, 520REH, 520RET and 505L pumpheads available as standard, others available on request
- 2,200:1 speed control range from 0.1 rpm to 220 rpm in 0.1 rpm increments
- Keypad incorporates 3-level security PIN lock
- NEMA 2 (IP31) and NEMA 4X (IP66) cased pumps
- Dual voltage, 115 V/230 V 50/60 Hz
- Remote Analogue/Digital, RS232, RS485, PROFIBUS®, PROFINET®, SCADA and EtherNet/IP™ control options









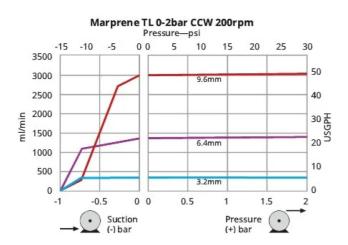


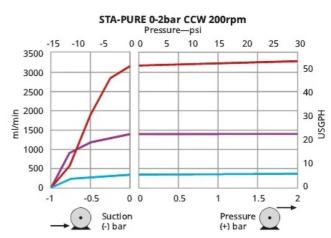




530 Drive with 520REL Pumphead performance

520REL twin-roller pumphead for LoadSure \circledR element tubing — flow rates — ml/min (USG)	PH)									
Tube material	Speed	3.2mm	6.4mm	9.6mm						
Pumpsil®, GORE® STA-PURE® Pump Tubing – Series PCS, GORE® STA-PURE® Pump Tubing – Series PFL	0.1 to 220rpm	0.18-390 (0-6.18)	0.70-1500 (0.01-23.8)	1.60-3500 (0.03-55.5)						
Marprene® TL, Bioprene® TL	0.1 to 220rpm	0.17-370 (0-5.86)	0.67-1500 (0.01-23.8)	1.50-3300 (0.02-52.3)						





Technical specifications

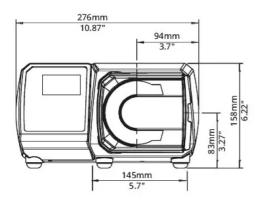
	530 Drive with 520REL Pumphead
Pumphead number of rollers	2
Pumphead number of channels	1
Max. flow rate	3500 ml/min
Min. flow rate	0.17 ml/min
Max. flow rate	56 USGPH
Min. flow rate	0.0027 USGPH
Drive speed control ratio	2200:1
Drive speed	0.1 - 220 rpm
Operating temperature range	5 to 40 °C
Operating temperature range	40 to 104 °F
Weight	10.5 - 11.4 kg
Weight	23.2 - 25.1 lbs
Drive weight	9.82, 10.7 kg
Drive weight	21.6, 23.6 lbs
NEMA module weight	0.9 kg
NEMA module weight	1.9 lbs
Control types	EtherNet/IP™, PROFIBUS®, PROFINET®, Remote Analogue/Digital, RS232, RS485, SCADA
Drive control options	Bp, BpN, Du, DuN, DuS, En, EnN, Pn, PnN, S, SN, U, UN, US
Drive standards	CE, cETLus, C-Tick, IRAM, NSF/ANSI 61 (for Marprene tubing and loadsure elements), RoHS
Drive ingress protection	IP31, IP66, NEMA 2, NEMA 4X
Drive humidity	(Non-condensing) 80% up to 31°C (88°F), decreasing linearly to 50% at 40C (104F)
Drive noise	<70dBA at 1m
Max. altitude	2000 m
Drive power supply	115/230 V 1ph 50/60 Hz 135 VA
Compatible tubing bore size	3.2, 6.4, 9.6 mm

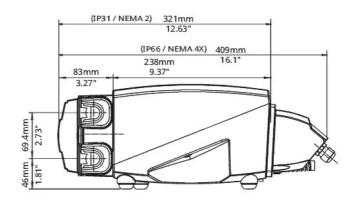
Materials of construction

	530 Drive with 520REL Pumphead
Bearings	Stainless steel
Driveshaft	Electroless nickel plated carbon steel
Drain port assembly	Hytrel, PP (polypropylene)
Drive casework	Pressure die-cast aluminum LM24
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)
Drive keypad/HMI	Polyester
Drive rear blanking plate	Stainless steel 304
Pumphead body assembly	Polycarbonate (PC), Polyphenylene sulphide (PPS)
Pumphead guard	Polycarbonate (PC)
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Polyphenylene sulphide (PPS), Stainless steel 316
Pumphead rotor assembly	Polyphenylene sulphide (PPS), Stainless steel 316
Pumphead track	Polyphenylene sulphide (PPS)
Seals	Neoprene, PTFE
Pumphead seals	Neoprene, PTFE
Switch-plate	Glass filled ABS plastic

Information listed covers the complete range.
For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

Dimensions





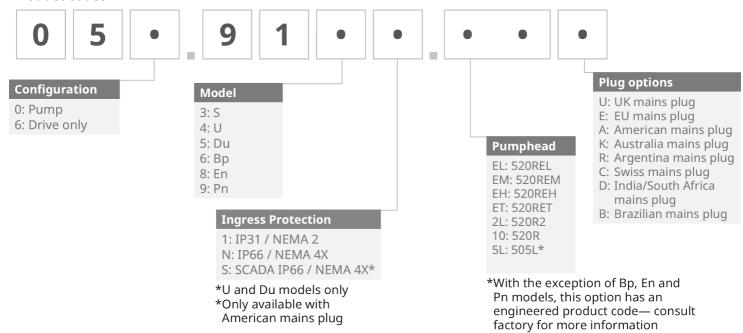
Control options

Key to	pump drive	models																			
530S	530SN	530U	530UN	530Dt	ı 5	30DuN		530Bp	p 530BpN 530US 530DuS 530En		530	EnN		530Pn 530		PnN					
Standard Standard IP66 / Universal IP66 / NEMA 4X Universal AX Universal Universal IP66 / NEMA		Digital	Digital Universal IP66 / NEMA 4X		Bus Pump		ump / Unive		versal DA / IP66 MA 4X	Digital		EtherNet/	Ethe	EtherNet/IP /		PROFINE	T® PRO	PROFINET® /			
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^{*}Range of 3rd party pressure/flow sensors supported—see compatible sensor list on www.wmftg.com/literature

^{**}Dispensing (Network/Manual) - Store up to 100 recipes locally or via network control. Features include volume, flow rate, antidrip, ramp and time delays. Run these as batches using local, network or manual keypad control.

Product codes



Product codes

Element product codes for 520REL										
	Industrial LoadSu	re® elements, Quick-r	elease PVDF connectors	Sanitary LoadSu	Sanitary LoadSure® elements, 3/4 in Sanitary PVDF connectors					
	3.2mm	6.4mm	9.6mm	3.2mm	6.4mm	9.6mm				
Pumpsil®	913.A032.PFQ	913.A064.PFQ	913.A096.PFQ	913.A032.PFT	913.A064.PFT	913.A096.PFT				
Bioprene® TL				933.0032.PFT	933.0064.PFT	933.0096.PFT				
Marprene® TL	902.0032.PFQ	902.0064.PFQ	902.0096.PFQ							
STA-PURE® Series PCS				961.0032.PFT	961.0064.PFT	961.0096.PFT				
STA-PURE® Series PFL	966.0032.PFQ	966.0064.PFQ	966.0096.PFQ	966.0032.PFT	966.0064.PFT	966.0096.PFT				

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the users responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.

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27 November 2023