

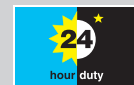
# 521F/RELC fixed speed and 521P/RELC 0-2 bar pneumatic pumps fitted with LoadSure® element pumphead

# 500 series

Watson-Marlow Pumps

## FEATURES AND BENEFITS

- Flow rates up to 4600 ml/min (72.9 USGPH) at 2 bar (30psi) peak pressure with 520 LoadSure® elements
- 520RELC pumphead features PPS (Polyphenylene Sulphide) track and rotor with stainless steel occlusion rollers to resist chemical attack and abrasive wear
- Heavy duty pumphead construction with impact proof safeguard
- Sprung rotor gently compresses tubing using large low friction rollers with sealed bearings, guaranteeing long tube life and accurate metering
- Fast and simple pumphead set-up using a clutched rotor for effortless element loading



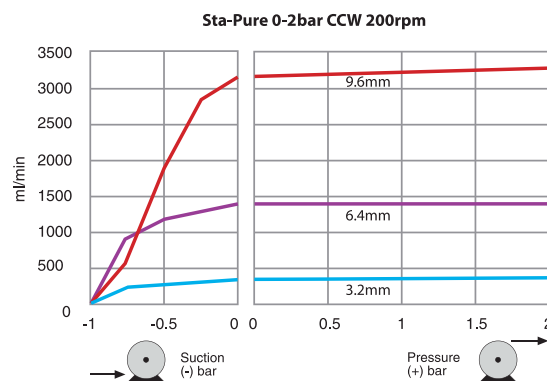
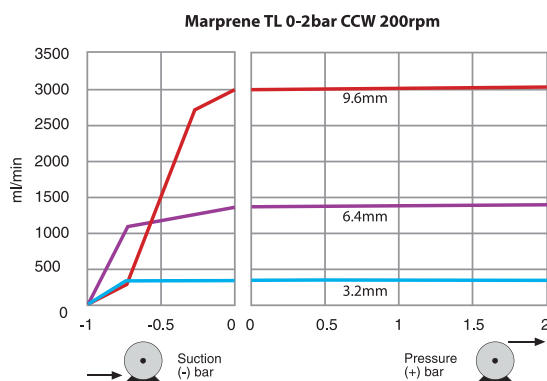
Watson-Marlow...Innovation in Full Flow

## TECHNICAL DATA

Pump drives	521F	521P
3 phase AC motor gearbox in 3 speed options	•	
Industry standard motors	•	•
Four vane pneumatic motor with speed limiting		•
Speed control ratio (with suitable equipment)	10:1	5:1
Reversible with suitable equipment	•	•
Optional baseplate mounting	•	•

## PERFORMANCE

LoadSure® Element tubing flow rates (ml/min)				
Tube Material	Speed	3.2mm	6.4mm	9.6mm
Pumpsil, STA-PURE PCS, STA-PURE PFL, Neoprene	60rpm	110	420	950
	213rpm	370	1500	3400
	291rpm	510	2000	4600
Marprene TL, Bioprene TL	60rpm	100	400	910
	213rpm	360	1400	3200
	291rpm	490	2000	4400
Pumpsil, STA-PURE PCS, STA-PURE PFL, Neoprene	275 rpm	450	1800	4100
	275 rpm	430	1700	3900



## DIMENSIONS



## TECHNICAL SPECIFICATION

	521F	521P
Ingress rating	IP55	IP55
Temperature	5C to 40C (40F to 104F)	5C to 40C (40F to 104F)
Pump weight	11kg (24lb 4oz)	11kg (24lb 4oz)
Control ratio	10:1	5:1
Noise	<70dB(A) at 1m	<70dB(A) at 1m
Standard	CE, EN60529	CE
Supply	230/400V 3ph 50Hz	Compressed air, clean/dry/lubricated
Power	0.18kW	Up to equivalent 0.56kW 14l/sec (30 cfm) @ 7bar (100psi)

## MATERIALS OF CONSTRUCTION

Component	Material
Motor	Cast aluminium alloy
Gearbox	Cast iron
Pumphead track	PPS (polyphenylene sulphide)
Guard - inner/outer	Polycarbonate
Guard seal	Neoprene
Rotor hub	Stainless steel 316
Roller arms, rotor cover	PPS (polyphenylene sulphide)
Rollers - main/guide	Stainless steel
Main roller bearings	Stainless steel
Drain port	PP (polypropylene)
Drain plug	Hytrel

## ORDER INFORMATION

Pump and pumphead product codes			
Description	Partcode	Description	Partcode
520RELC pumphead	053.1031.EL0	521P/RELC 257rpm pump	050.8252.EL0
521F/RELC 60rpm pump	050.8122.EL0		
521F/RELC 213rpm pump	050.8152.EL0		
521F/RELC 291rpm pump	050.8172.EL0	Leak detector	059.8111.000

Element product codes						
	Industrial LoadSure® elements Quick-release PVDF connectors			Sanitary LoadSure® elements 3/4 in Sanitary PVDF connectors		
	3.2mm	6.4mm	9.6mm	3.2mm	6.4mm	9.6mm
Marpene TL	902.0032.PFQ	902.0064.PFQ	902.0096.PFQ			
Pumpsil	913.A032.PFQ	913.A064.PFQ	913.A096.PFQ	913.A032.PFT	913.A064.PFT	913.A096.PFT
Neoprene	920.0032.PFQ	920.0064.PFQ	920.0096.PFQ			
STA-PURE PFL	965.0032.PFQ	965.0064.PFQ	965.0096.PFQ	965.0032.PFT	965.0064.PFT	965.0096.PFT
Bioprene TL				933.0032.PFT	933.0064.PFT	933.0096.PFT
STA-PURE PCS				960.0032.PFT	960.0064.PFT	960.0096.PFT

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, Bioprene and Marprene are trademarks of Watson-Marlow Limited. Disclaimer: 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. LoadSure is a trademark of Watson-Marlow Limited. © STA-PURE PFL and © STA-PURE PCS are registered trademarks of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.

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Pumps