

521P/R2C pneumatic pumps

500series

Watson-Marlow Pumps

FEATURES AND BENEFITS

- 520R2C pumphead features PPS (Polyphenylene Sulfide) track and rotor, with stainless steel occlusion rollers to resist chemical attack and abrasive wear
- Large track swept volume and two roller rotor design for flows from 120 ml/min. (1.9 USGPH) to 4400ml/min. (69.74 USGPH)
- Heavy duty construction with clear impact proof safeguard, and robust tube clamps which ensure grip in poor operating environments
- Non-adjustable sprung rotor, gently compresses tubing using large low friction rollers with sealed bearings, guaranteeing long tube life and accurate metering

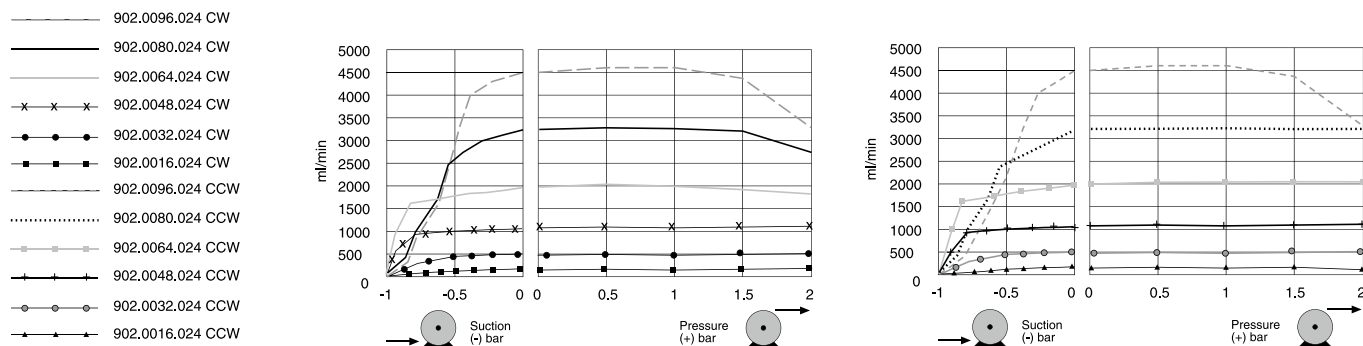


Watson-Marlow...Innovation in Full Flow

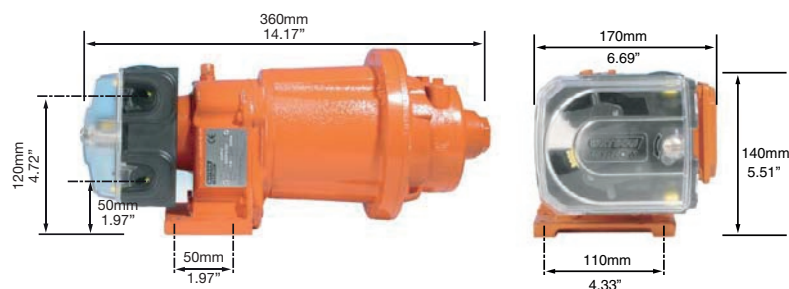
PERFORMANCE

Tube bore and flow rates (ml/min)							
Tube material	Speed rpm	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
Sta-Pure, Chem-Sure, Tygon, Platinum-cured silicone	257rpm	110	450	1000	1800	2800	4100
Marprene/Bioprene TL	257rpm	110	430	970	1700	2700	3900

521R2C Pumphead performance curve, with Marprene tubing at 291rpm



DIMENSIONS



TECHNICAL SPECIFICATION

Weight	11kg to 21kg (24lb 4oz to 46lb 5oz)
Operational temperature range	5C to 40C (40F to 104F)
Noise	< 70dBb(A) at 1m
Control ratio	10:1
Standards	CE, EN60529 (IP55)
Supply	Up to equivalent 0.56kW 14 L/sec (30 cfm) @ 7bar (100 psi) 0.56kW IP55

MATERIALS OF CONSTRUCTION

Component	Material
Motor	Cast aluminium alloy
Gearbox	Cast iron
Track	PPS (polyphenylene sulfide) with 65% glass fibre and mineral fill
Rotor body and tube clamps	PPS (polyphenylene sulfide) 50% glass filled + 15% mineral
Springs, spindles and main rollers	Stainless steel 316S11 to S13
Guide rollers	Acetal copolymer
Guard	Polycarbonate, clear

ORDER INFORMATION

Product codes			
Pump	rpm	Supply	Product code
521P/R2C Air driven	257	14 L/sec (30 cfm) @ 7bar (100 psi) 0.56kW IP55	050.8252.2L0

Pumphead		
Pump	Supply	Product code
520R2C	Close coupled twin roller pumphead	053.1031.2L0
Close coupled accessories		
Universal baseplate and mounting kit		059.8000.000
313 pumphead mounting kit		059.8031.000
505L pumphead mounting kit		059.8051.000

Tube ordering codes					
Bore/wall (mm)	Bioprene	Marprene	Platinum Silicone	STA-PURE PCS	Chem-Sure®
1.6 / 2.4	933.0016.024	902.0016.024	913.A016.024	960.0016.024	965.0016.024
3.2 / 2.4	933.0032.024	902.0032.024	913.A032.024	960.0032.024	965.0032.024
4.8 / 2.4	933.0048.024	902.0048.024	913.A048.024	960.0048.024	965.0048.024
6.4 / 2.4	933.0064.024	902.0064.024	913.A064.024	960.0064.024	965.0064.024
8.0 / 2.4	933.0080.024	902.0080.024	913.A080.024	960.0080.024	965.0080.024
9.6 / 2.4	933.0096.024	902.0096.024	913.A096.024		

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.

**WATSON
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Pumps**

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