

521VI varmecha-controlled variable speed 0-30 psi pumps with 520RELC Loadsure® element pumphead

500 series

Watson-Marlow Bredel

FEATURES

- Flow rates up to 69.7 gph (4400 ml/min) at 30psi (2 bar) 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

0 – 2 bar
0 – 30 psi

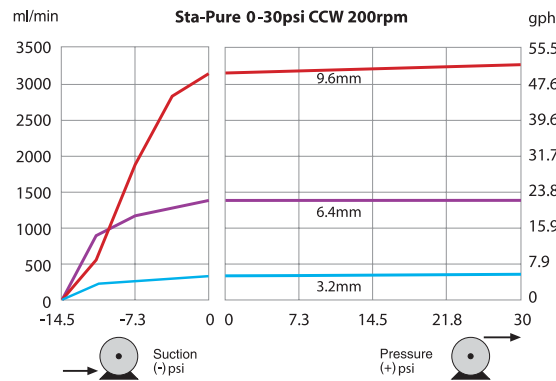
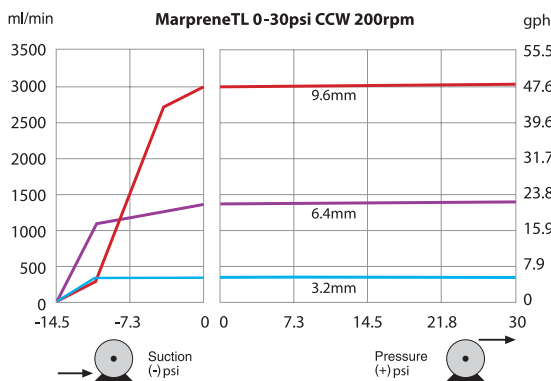


FUNCTIONALITY

Pump drives	521VI
2 speed options	•
Fitted with pre-configured integral frequency inverter	•
Start/stop forward/reverse keypad control	•
Potentiometer knob speed control	•
Analog or digital remote control options	•
Remote control features	•
Single phase 60Hz 110V supply to drive industrial IP55 rated 3 phase AC motor	•
Speed reduction 10:1	•
Optional baseplate kit	•

PERFORMANCE

LoadSure® Element tubing flow rates, ml/min(gph)				
Tube Material	Speed	3.2mm	6.4mm	9.6mm
Pumpsil, Sta-Pure, Chem-Sure, Neoprene	6-63rpm	11-110(0.2-1.7)	42-440(0.7-7.0)	95-1000(1.5-15.9)
	27-275rpm	48-480(0.8-7.6)	190-1900(3.0-30.1)	430-4400(6.8-69.7)
Marprene TL, Bioprene TL	6-63rpm	11-110(0.2-1.7)	42-420(0.6-6.7)	91-950(1.4-15.1)
	27-275rpm	45-460(0.7-7.3)	180-1800(2.9-28.5)	410-4200(6.5-66.6)



DRAWINGS



SPECIFICATIONS

	521VI
Ingress rating	IP55 (optional IP65)
Pump weight	46lb 5oz
Control ratio	10:1
Noise	< 70dB(A) at 1m
Standard	CE, EN60529, UL E211799
Supply	110V 60Hz 1ph
Power	1/3HP

MATERIALS OF CONSTRUCTION

Component	Material
Motor	Cast aluminum 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	Hytrell

ORDER INFORMATION

Pump and pumphead product codes			
Description	Partcode	Description	Partcode
521VI/RELC 63rpm pump	053.8823.ELO	520RELC pumphead	053.1031.ELO
521VI/RELC 275rpm pump	053.8873.ELO	Leak detector	059.8111.000

Element product codes						
	Industrial LoadSure® elements			Sanitary LoadSure® elements		
	Quick-release PVDF connectors			³ / ₄ in Sanitary PVDF connectors		
	3.2mm	6.4mm	9.6mm	3.2mm	6.4mm	9.6mm
Marpren 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			
Chem-Sure	965.0032.PFQ	965.0064.PFQ	965.0096.PFQ	965.0032.PFT	965.0064.PFT	965.0096.PFT
Bioprene TL				903.0032.PFT	903.0064.PFT	903.0096.PFT
Sta-Pure				960.0032.PFT	960.0064.PFT	960.0096.PFT

All flow rates shown were obtained pumping water at 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. © Chem-Sure and © STA-PURE are registered trademarks of W.L Gore & Associates Inc. Pumpsil is a trademark of Watson-Marlow Limited. Please state the product code when ordering pumps and tubing.



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