

# 521VI varmecha-controlled variable speed 60 - 100 psi pumps with 520REHC Loadsure® element pumphead

# 500 series

Watson-Marlow Bredel

## FEATURES

- Flow rates up to 8.9 gph (560 ml/min) at 100psi (7 bar) peak pressure with 520 LoadSure® elements
- 520REHC 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

4 – 7 bar  
60 – 100 psi

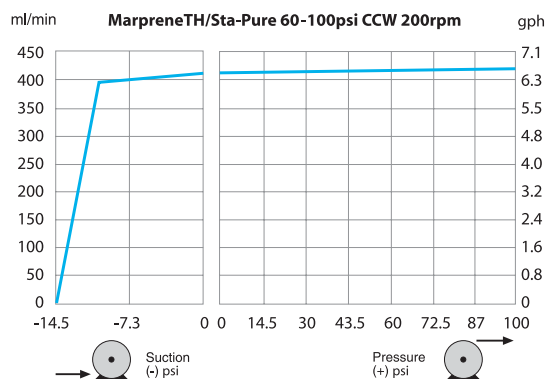


## FUNCTIONALITY

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
Pumpsil, Sta-Pure, Chem-Sure, Neoprene	6-63rpm	12-130 (0.2-2.1)
	27-275rpm	55-560 (0.9-8.9)



To achieve 100 psi pressure the pump must rotate counter-clockwise

## DRAWINGS



## SPECIFICATIONS

	<b>521VI</b>
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	Hytrel

## ORDER INFORMATION

### Pump and pumphead product codes

Description	Partcode	Description	Partcode
521VI/REHC 63rpm pump	053.8823.EH0	520REHC pumphead	053.1031.EH0
521VI/REHC 275rpm pump	053.8873.EH0	Leak detector	059.8111.000

### Element product codes

	Industrial LoadSure® elements	Sanitary LoadSure® elements
	Quick-release PVDF connectors	<sup>3</sup> / <sub>4</sub> in Sanitary PVDF connectors
	3.2mm	3.2mm
Marprene TH	902.H032.PFQ	
Bioprene TH		903.H032.PFT
Sta-Pure	960.H032.PFQ	960.H032.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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