

521VI varmecha-controlled variable speed 30 - 60 psi pumps with 520REMC Loadsure® element pumphead

500 series

Watson-Marlow Bredel

FEATURES

- Flow rates up to 30.1 gph (1900 ml/min) at 60psi (4 bar) peak pressure with 520 LoadSure® elements
- 520REMC 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

2 - 4 bar
30 - 60 psi

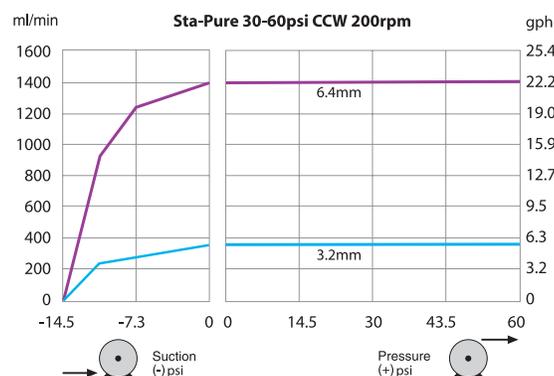
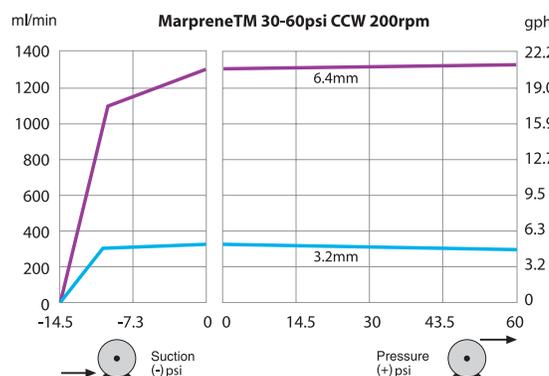


FUNCTIONALITY

| 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 |
| Pumpsil, Sta-Pure, Chem-Sure, Neoprene | 6-63rpm | 11-110(0.2-1.7) | 42-440(0.7-7.0) |
| | 27-275rpm | 48-480(0.8-7.6) | 190-1900(3.0-30.1) |
| Marprene TL, Bioprene TL | 6-63rpm | 11-110(0.2-1.7) | 42-420(0.6-6.7) |
| | 27-275rpm | 45-460(0.7-7.3) | 180-1800(2.9-28.5) |



To achieve 60psi pressure the pump must rotate counter-clockwise

DRAWINGS



521VI



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/REMC 63rpm pump | 053.8823.EM0 | 520REMC pumphead | 053.1031.EM0 |
| 521VI/REMC 275rpm pump | 053.8873.EM0 | 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 | 3.2mm | 6.4mm |
| Marprene TM | 902.P032.PFQ | 902.P064.PFQ | | |
| Chem-Sure | 965.M032.PFQ | 965.M064.PFQ | 965.M032.PFT | 965.M064.PFT |
| Bioprene TM | | | 903.P032.PFT | 903.P064.PFT |
| Sta-Pure | | | 960.M032.PFT | 960.M064.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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