

520RET element pumphead for Maxthane Elements



500 series pumpheads

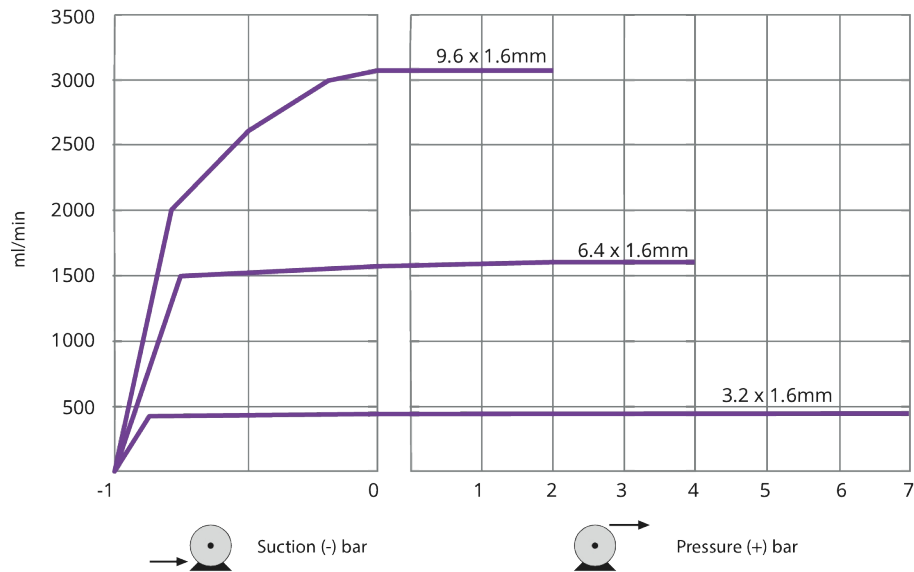
- Flow rates up to 2900 ml/min (46 USGPH) at 2 bar (30psi) with Maxthane LoadSure® elements
- Features large swept volume with sprung rollers for high accuracy, gentle pumping of shear-sensitive fluids



520RET element pumphead for Maxthane Elements performance

520RET twin-roller pumpheads for Maxthane® LoadSure® elements tubing — flow rates — ml/min (USGPH)				
Tube material	Speed	3.2 mm	6.4 mm	9.6 mm
Maxthane®	0.1-220 rpm	0.24-520 (0-8.24)	0.75-1600 (0.01-25.4)	1.3-2900 (0.02-46.0)

Maxthane® LoadSure® Elements, Counter clockwise Rotation 200 rpm RET rotor



To achieve the discharge pressures stated above, the rotor must be run counter clockwise. To achieve optimal tube life, run the rotor clockwise at a maximum discharge pressure of 2 bar.

Technical specifications

	520RET element pumphead for Maxthane Elements
Number of channels	1
Number of rollers	2
Max. flow rate continuous	2900 ml/min
Max. flow rate continuous	46 USGPH (174 L/h)
Pump type	Cased
Compatible tubing bore size	3.2, 6.4, 9.6 mm

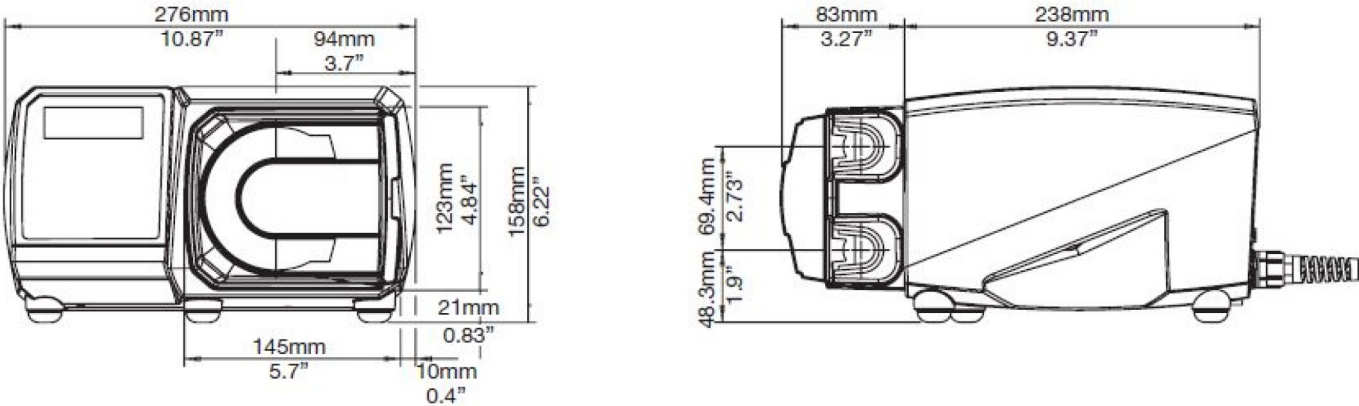
Materials of construction

	520RET element pumphead for Maxthane Elements
Pumphead body assembly	Polycarbonate (PC), Polyphenylene sulphide (PPS)
Pumphead guard	Polycarbonate (PC)
Pumphead track	Polyphenylene sulphide (PPS)
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Polyphenylene sulphide (PPS), Stainless steel 316
Pumphead rotor assembly	Polyphenylene sulphide (PPS), Stainless steel 316

Information listed covers the complete range.

For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

520RET element pumphead for Maxthane Elements dimensions



Product codes

	Sanitary LoadSure® elements, 3/4 in Sanitary PVDF connectors		
	3.2 mm	6.4 mm	9.6 mm
Maxthane® 0-2 bar (0-30 psi)	-	-	945.0096.PFT
Maxthane® 0-4 bar (0-60 psi)	-	945.0064.PFT	-
Maxthane® 0-7 bar (0-100 psi)	945.0032.PFT	-	-

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. Watson-Marlow, Pumpsil, PureWeld XL, 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. GORE and STA-PURE are trademarks of W. L. Gore & Associates. Please state the product code when ordering pumps and tubing.



wmfts.com/global
29 April 2026