

520R2 pumphead

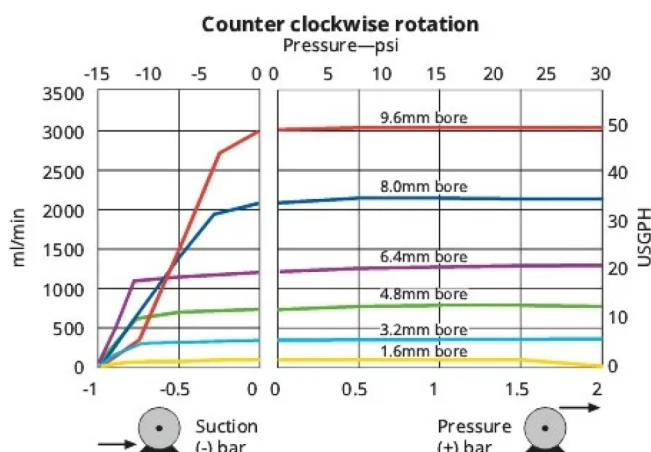
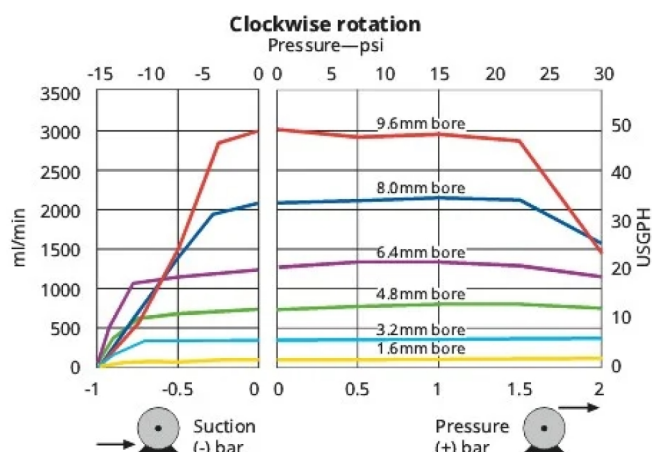
500 series pumpheads

- Flow rates from 0.04 ml/min (0.0006 USGPH) to 3.5 L/min (55.48 USGPH) using 2.4mm wall thickness tubing
- Features large swept volume with sprung rollers for high accuracy, gentle pumping of shear-sensitive fluids
- Robust pumphead construction with PPS (polyphenylene sulphide) track and rotor and stainless steel rollers and bearings



520R2 pumphead performance

520R2 twin sprung roller pumpheads for continuous 2.4 mm wall thickness tubing— Tube bore and flow rates — ml/min (USGPH)									
Tube material	Speed	0.5mm	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm	
Pumpsil®, GORE® STA-PURE® Pump Tubing – Series PCS, GORE® STA-PURE® Pump Tubing – Series PFL	0.1–220rpm	NA	0.04-97 (0–1.54)	0.18-390 (0–6.18)	0.40-870 (0.01–13.8)	0.70-1500 (0.01–23.8)	1.10-2400 (0.02–38)	1.60-3500 (0.03–55.5)	
Marprene®/Bioprene®, PureWeld XL®	0.1–220rpm	NA	0.04-92 (0–1.46)	0.17-370 (0–5.86)	0.38-830 (0–13.2)	0.67-1500 (0.01–23.8)	1.10-2300 (0.02–36.5)	1.50-3300 (0.02–52.3)	



Technical specifications

	520R2 pumphead
Number of channels	1
Number of rollers	2
Max. flow rate continuous	3500 ml/min
Max. flow rate continuous	55.48 USGPH (210 L/h)
Pump type	Cased, Panel mount
Compatible tubing bore size	1.6, 3.2, 4.8, 6.4, 8, 9.6 mm
Compatible tubing wall thickness	2.4 mm

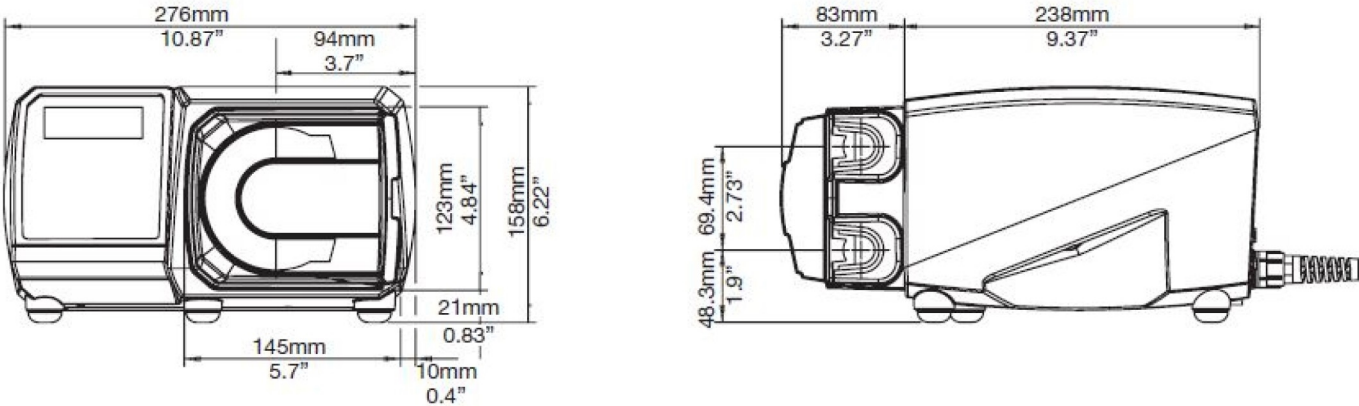
Materials of construction

	520R2 pumphead
Pumphead body assembly	Acetal, Aluminum, Aluminum alloy, Brass, 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.

520R2 pumphead dimensions



Product codes

Description					Part code		
520R2 Pumphead					053.1011.2L0		
Tubing 2.4 mm wall thickness tubing for 520R2							
Tube bore	Tube	Pumpsil®	PureWeld XL®	Bioprene®	STA-PURE® PCS	STA-PURE® PFL	Marprene®
1.6mm (1/16in)	119	913.A016.024	942.0016.024	933.0016.024	961.0016.024	966.0016.024	902.0016.024
3.2mm (1/8in)	120	913.A032.024	NA	933.0032.024	961.0032.024	966.0032.024	902.0032.024
4.8mm (3/16in)	15	913.A048.024	942.0048.024	933.0048.024	961.0048.024	966.0048.024	902.0048.024
6.4mm (1/4in)	24	913.A064.024	942.0064.024	933.0064.024	961.0064.024	966.0064.024	902.0064.024
8.0mm (5/16in)	121	913.A080.024	942.0080.024	933.0080.024	961.0080.024	966.0080.024	902.0080.024
9.6mm (3/8in)	122	913.A096.024	942.0096.024	933.0096.024	961.0096.024	966.0096.024	902.0096.024

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.



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02 July 2026