

500 VBM heavy duty pump



500 series panel mount pumps

- Rugged peristaltic pumps for industrial applications
- Outstanding performance high flow pumphead
- Spring-loaded stainless steel rollers with ball bearings provided gentle pumping and long tube life
- Stainless steel face plate
- Flow rates up to 2850 ml/min



500 VBM heavy duty pump performance

Marprene tubing 2.4 mm (3/32in) wall, zero pressure and no suction height									
ml/min tubing dimensions		0.5 mm	0.8 mm	1.6 mm	3.2 mm	4.8 mm	6.4 mm	8.0 mm	9.6 mm
VBM 24 VDC	100 rpm	4.1	10.5	42	170	380	680	1040	1500
	190 rpm	7.8	20	79	320	720	1295	1980	2850

For Pumpsil, Tygon, Sta-Pure and Chem-Sure flowrates, add 5% to the above figures.

For pressure performance see pumphead datasheet.

Technical specifications

	500 VBM heavy duty pump
Motor types	Variable speed brushless DC motor
Pumphead options	520R, 520R2, 520REH, 520REL, 520REM
Pumphead number of rollers	2
Pumphead number of channels	1
Flow rate range	4.1 ml/min to 2850 ml/min
Operating speed range	100 rpm to 360 rpm
Supply voltage	24 V DC
Operating temperature ranges	-10 °C to 40 °C (14 °F to 104 °F)
Power consumption	35W
Control options	0-4 V
Outputs	Tacho
Ingress Protection	IP41
Gearbox ratio	Spur; 10:1, Spur; 20:1, Spur; 40:1
Compatible tubing bore size	0.5, 0.8, 1.6, 3.2, 4.8, 6.4, 8, 9.6 mm
Compatible tubing wall thickness	1.6, 2.4 mm

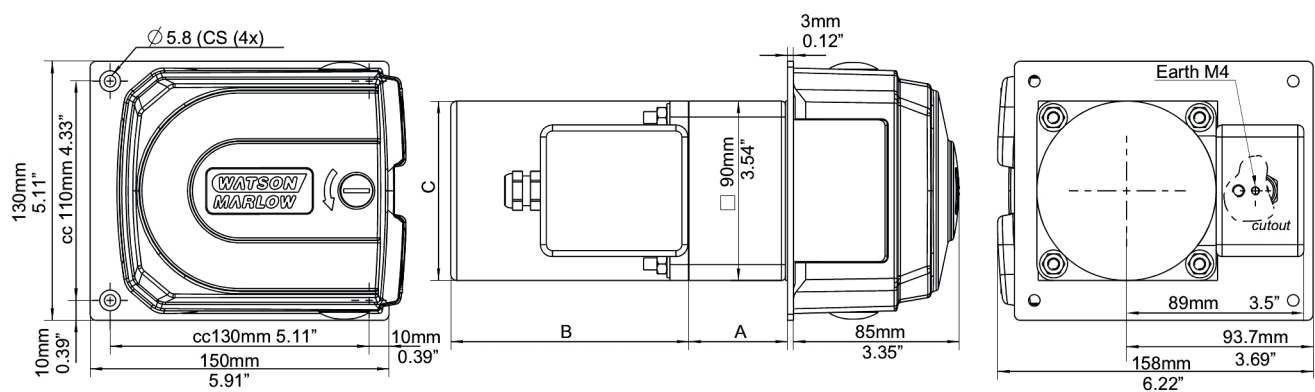
For detailed specifications of individual models refer to product reference manual or contact WMFTS representative.

Materials of construction

	500 VBM heavy duty pump
Pumphead body assembly	Acetal, Aluminium, Aluminium alloy, Brass, Polycarbonate (PC), Polyphenylene sulphide (PPS)
Pumphead rotor assembly	Polyphenylene sulphide (PPS), Stainless steel 316
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron), Polyphenylene sulphide (PPS), Stainless steel 316
Tube clamp assembly	Acetal copolymer (Kematal)

Information listed covers the complete range. For detailed specifications of individual models/components refer to product reference manual or contact WMFTS representative.

500 VBM heavy duty pump dimensions



	A	B	C
VBM 100 rpm	63 mm (2.48 in)	60 mm (2.36 in)	ø 70
VBM 190 rpm	45 mm (1.77 in)	60 mm (2.36 in)	ø 70

Product codes

520 VBM product codes		
Supply Voltage	Speed (rpm)	520 VBM/R2
24 VDC	100	040.NP22.210
24 VDC	190	040.NS22.210

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. 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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