

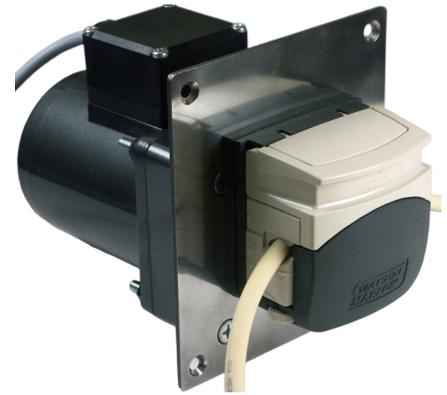
300 FDM heavy duty pump



300 series panel mount pumps

Key Features

- Rugged peristaltic pumps for industrial applications
- Heavy duty spur gearbox with ball bearings
- Iconic flip-top design for fast and error-free tube loading
- Available with 313X extension pumpheads for multi-channel applications
- Flow rates up to 1750 ml/min



300 FDM heavy duty pump performance

313/314 FDM pumps – Flow rates (ml/min)				
Tube bore (mm)	FDM 12/24VDC			
	Speed (rpm)			
	45	90	175	350
0.5	1.5	3.0	6.0	12
0.8	3.2	6.4	13	25
1.6	12	24	48	95
3.2	45	90	175	350
4.8	100	198	385	770
6.4	160	325	630	1260
8.0	225	450	875	1750

314 flowrates are approximately 85 % of 313 flow rates

Marpene tubing 1.6 mm wall, zero pressure and no suction lift

Nominal flow rates may vary +/-10 %

Technical specifications

	300 FDM heavy duty pump
Motor types	Fixed speed DC motor
Pumphead options	313D, 314D
Pumphead number of rollers	3, 4
Pumphead number of channels	1
Flow rate range	1.35 ml/min to 1750 ml/min
Operating speed range	45 rpm to 360 rpm
Supply voltage	12 V DC, 24 V DC
Operating temperature ranges	-10 °C to 40 °C (23 °F to 104 °F)
Rated Power	30 W
Control options	Fixed speed, Manual variable speed
Alarms	Cover-open
Ingress Protection	IP41 drive
Gearbox ratio	Spur; 10:1, Spur; 20:1, Spur; 40:1, Spur; 5:1
Compatible tubing bore size	0.5, 0.8, 1.6, 3.2, 4.8, 6.4, 8 mm
Compatible tubing wall thickness	1.6, 2.4 mm

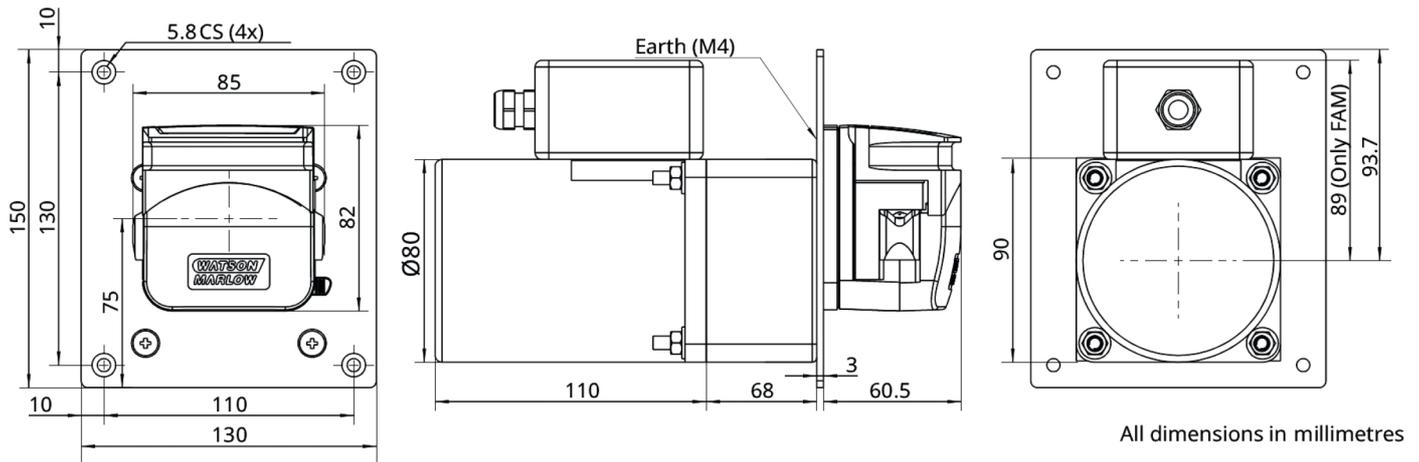
For detailed specifications of individual models refer to product reference manual or contact WMFTS representative.

Materials of construction

	300 FDM heavy duty pump
Pumphead body assembly	Glass filled polypropylene, Polyacrylamide–IXEF (PARA), Stainless steel
Pumphead rotor assembly	Electroless nickel plated hardened steel, Glass filled Nylon
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)

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

300 FDM heavy duty pump dimensions



Product codes

Pump product codes				
Description	Supply voltage	Speed (rpm)	Number of channels	Product code
313FDM/D	12 VDC	45	6	040.CH23.010
	24 VDC	45	6	040.DH23.010
	12 VDC	90	4	040.CP23.010
	24 VDC	90	4	040.DP23.010
	12 VDC	175	2	040.CR23.010
	24 VDC	175	2	040.DR23.010
	12 VDC	350	1	040.CV23.010
	24 VDC	350	1	040.DV23.010

Silicone 8.0 mm no backpressure

Marprene max 6.4 mm no backpressure

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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