

# 400 FD M3 pump

400/M series panel mount pumps

## Features and benefits

- 3 channel compact pump design
- Works with 1.6 mm wall thickness tubing and Luer connectors
- Complete pump with motor, or as pumphead only
- Pumphead available in PVDF for greater chemical compatibility



## 400 FD M3 pump performance

Tube bore and flow rates (ml/min)										
Speed rpm	0.13 mm	0.19 mm	0.25 mm	0.38 mm	0.50 mm	0.63 mm	0.76 mm	0.88 mm	1.02 mm	1.14 mm
12	0.012	0.024	0.048	0.10	0.17	0.26	0.37	0.52	0.66	0.84
15	0.015	0.030	0.06	0.12	0.21	0.33	0.47	0.65	0.83	1.1
20	0.020	0.040	0.08	0.16	0.28	0.44	0.62	0.86	1.1	1.4
25	0.025	0.050	0.10	0.20	0.35	0.55	0.78	1.1	1.4	1.8
40	0.040	0.08	0.16	0.32	0.56	0.88	1.2	1.7	2.2	2.8
50	0.050	0.10	0.20	0.40	0.70	1.1	1.6	2.2	2.8	3.5
75	0.08	0.15	0.30	0.60	1.1	1.7	2.3	3.2	4.1	5.3
100	0.10	0.20	0.40	0.80	1.4	2.2	3.1	4.3	5.5	7.0
Speed rpm	1.29 mm	1.42 mm	1.52 mm	1.65 mm	1.85 mm	2.05 mm	2.29 mm	2.54 mm	2.79 mm	
12	1.07	1.32	1.44	1.68	2.2	2.5	3.1	3.7	4.3	
15	1.34	1.65	1.80	2.1	2.7	3.2	3.9	4.7	5.4	
20	1.78	2.2	2.4	2.8	3.6	4.2	5.2	6.2	7.2	
25	2.2	2.8	3.0	3.5	4.5	5.3	6.5	7.8	9.0	
40	3.6	4.4	4.8	5.6	7.2	8.4	10	12	14	
50	4.5	5.5	6.0	7.0	9.0	11	13	16	18	
75	6.7	8.3	9.0	11	14	16	20	23	27	
100	8.9	11	12	14	18	21	26	31	36	

## Technical specifications

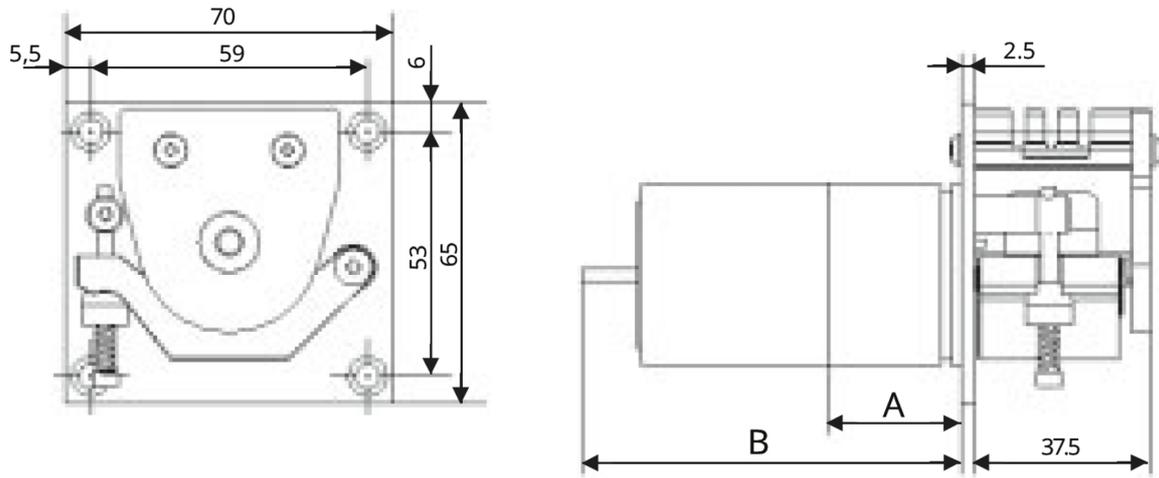
	400 FD M3 pump
Motor types	Fixed speed DC motor
Pumphead options	M3
Pumphead number of channels	3
Supply voltage	24 V DC
Operating temperature	-10 °C to 45 °C (14 °F to 113 °F)
Power consumption	5 W
Compatible tubing wall thickness	1.6 mm

## Materials of construction

	400 FD M3 pump
Pumphead body assembly	Acetal (grey)
Pumphead rotor assembly	Acetal (black), Stainless steel
Pumphead roller assembly	Acetal (black)
Face plate	Anodised aluminium
Driveshaft	Acid resistant stainless steel

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

## 400 FD M3 pump dimensions



Motor type	Standard DC 5 W	Economy DC 5 W	Brushless DC 5 W
Dimension A	L=26.5 mm x $\varnothing$ 39.6 mm	L=26.5 mm x $\varnothing$ 39.6 mm	L=26.5 mm x $\varnothing$ 39.6 mm
Dimension B	L=87.3 mm* x $\varnothing$ 39.6 mm	L=81.0 mm* x $\varnothing$ 39.6 mm	L=77.0 mm* x $\varnothing$ 39.6 mm

\*=maximum length behind mounting plate

## Product codes

Pump product codes			
Motor type	Voltage	Speed (rpm)	Product code
Standard DC 5 W	12-15 VDC	40	040.DH1D.M3M
Economy DC 5 W	12 VDC	75	040.AN1D.M3M
Economy DC 5 W	24 VDC	75	040.BN1D.M3M
Economy DC 5 W	12 VDC	25	040.AC1D.M3M
Economy DC 5 W	24 VDC	25	040.BC1D.M3M
Brushless DC 5 W	24 VDC	50	040.FK1D.M3M
Brushless DC 5 W	24 VDC	15	040.F91D.M3M

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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10 July 2025