

# 400 FD N2 pump

400/M series panel mount pumps

## Features and benefits

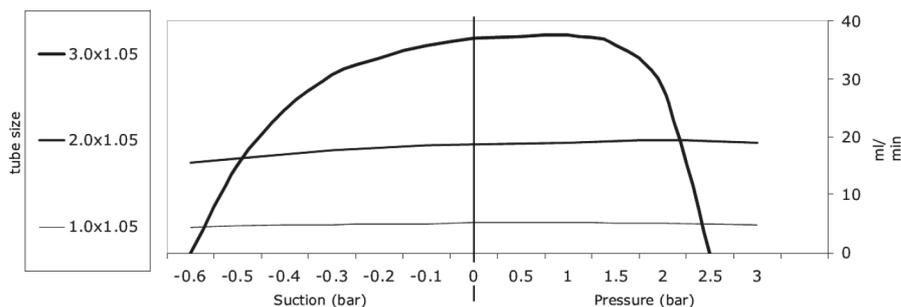
- 2 channel compact pump design
- Works with 1 mm wall thickness tubing and barbed fittings
- Complete pump with motor, or as pumphead only
- Pumphead available in PVDF for greater chemical compatibility



## 400 FD N2 pump performance

Flow rates (ml/min) 1.0 mm wall Bioprene tubing													
Tube bore (mm)	Speed (rpm)												
	4	5	10	12	20	25	40	70	75	100	160	200	270
0.5	0.05	0.07	0.13	0.16	0.26	0.33	0.52	0.93	1.0	1.3	2.09	2.6	3.58
1.0	0.2	0.25	0.5	0.6	1.0	1.3	2.0	3.54	3.8	5.0	8.0	10	12.8
2.0	0.72	0.9	1.8	2.2	3.6	4.5	7.2	12.2	13	18	28.6	36	48.6
3.0	1.3	1.7	3.3	4.0	6.6	8.3	13	23.2	25	33	52.9	66	88.4

## Suction/Pressure chart



## Technical specifications

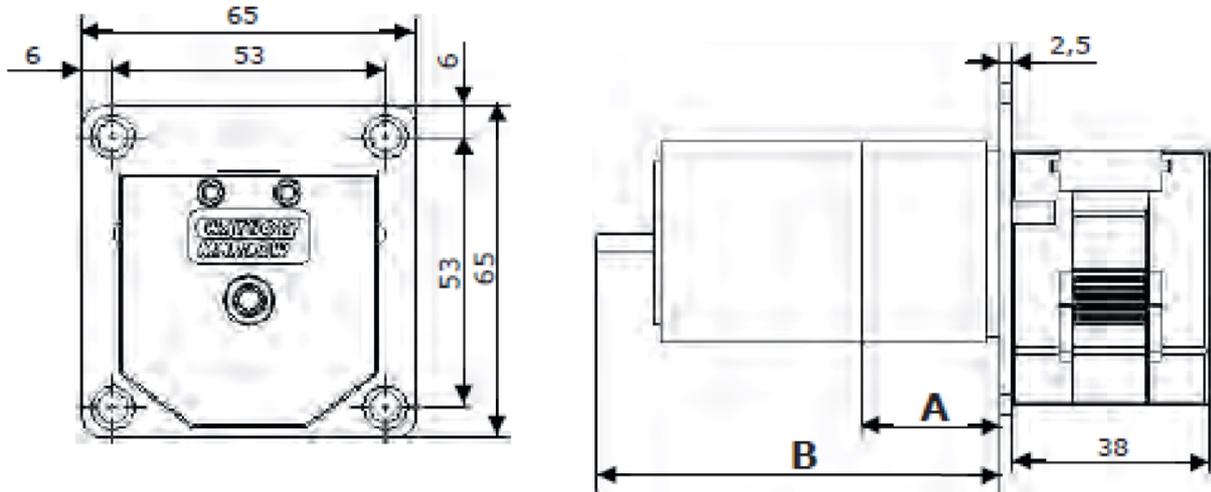
	400 FD N2 pump
Motor types	Fixed speed DC motor
Pumphead options	N2
Pumphead number of channels	2
Supply voltage	24 V DC
Operating temperature	-10 °C to 45 °C (14 °F to 113 °F)
Power consumption	5 W
Compatible tubing bore size	0.5, 1, 2, 3 mm
Compatible tubing wall thickness	1 mm

## Materials of construction

	400 FD N2 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 N2 pump dimensions



<b>Motor type</b>	<b>400FD/N2 5 W</b>
Dimension A	L=26.5 mm x $\varnothing$ 39.6 mm
Dimension B	L=85.3 mm* x $\varnothing$ 39.6 mm

\*=maximum length behind mounting plate

### Product codes

Pump product codes			
Motor type	Voltage	Speed (rpm)	Product code
Economy DC 5 W	24 VDC	200	040.BS1N.N2C
Economy DC 5 W	24 VDC	75	040.BN1N.N2C
Economy DC 5 W	24 VDC	25	040.BC1N.N2C
Brushless DC 5 W	24 VDC	270	040.FT1N.N2C
Brushless DC 5 W	24 VDC	160	040.FQ1N.N2C
Brushless DC 5 W	24 VDC	70	040.FK1N.N2C
Brushless DC 5 W	24 VDC	20	040.F91N.N2C
Tubing product codes			
Bore/Wall	Bioprene	Peroxide cured Silicone	Connects to
0.5/1.0 mm	049.EF6N.N05	-	Tube bore 3.0
1.0/1.0 mm	049.EF6N.N10	049.EH6N.N10	Tube bore 3.0
2.0/1.0 mm	049.EF6N.N20	049.EH6N.N20	Tube bore 3.0
3.0/1.0 mm	049.EF6N.N30	049.EH6N.N30	Tube bore 3.0

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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