

# 521F with R2C pumphead

500 series close-coupled pumps

## Features and benefits

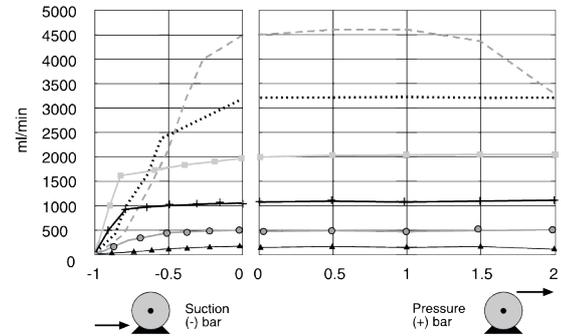
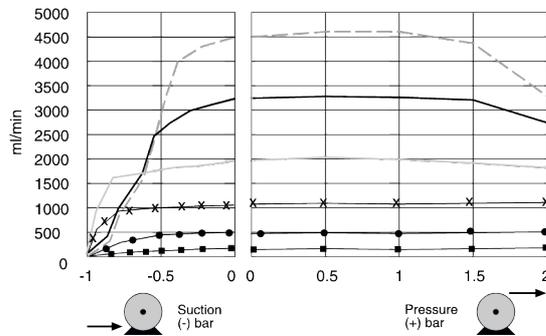
- Flow rates up to 4600 ml/min and peak pressure up to 2 bar
- Heavy-duty pumphead construction with impact-proof safeguard
- Sprung rotor gently compresses tubing using large low friction rollers with sealed bearings, guaranteeing long tube life and accurate metering
- Fast and simple pumphead set-up using a clutched rotor



## 521F with R2C pumphead performance

Tube bore and flow rates (ml/min)							
Tube Material	Speed (rpm)	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm	9.6mm
Neoprene, Sta-Pure, Chem-Sure, Tygon, Platinum-cured silicone	60	26	110	240	420	660	950
	213	94	370	840	1500	2300	3400
	291	130	510	1200	2000	3200	4600
Marprene/Bioprene TL	60	25	100	230	400	630	910
	213	89	360	810	1400	2200	3200
	291	120	490	1100	2000	3100	4400

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## Technical specifications

	521F with R2C pumphead
Max. flow rate	4600 ml/min
Min. flow rate	2.6 ml/min
Max. flow rate	73 USGPH
Min. flow rate	0.04 USGPH
Max. operating pressure	2 bar
Max. operating pressure	30 psi
Ambient Temperature Range	5 °C to 40 °C
Ambient Temperature Range	41 °F to 104 °F
Fluid temperature range	-20 °C to 80 °C
Fluid temperature range	-4 °F to 175 °F
Motor types	AC electric motor
Max. operating speed	291 rpm
Standards	CE
Ingress Protection	IP55
Noise	<70dBb(A) at 1m
Weight	10 - 15 kg
Weight	22 - 33 lbs
Power supply	400 V 50 Hz 3 ph
Compatible tubing bore size	0.5, 0.8, 1.6, 3.2, 4.8, 6.4, 8, 9.6 mm
Compatible tubing wall thickness	2.4 mm

Table lists details for fixed speed pumps. For more detail on drive, AC motor and inverter options please contact your local Watson-Marlow Fluid Technology Solutions representative.

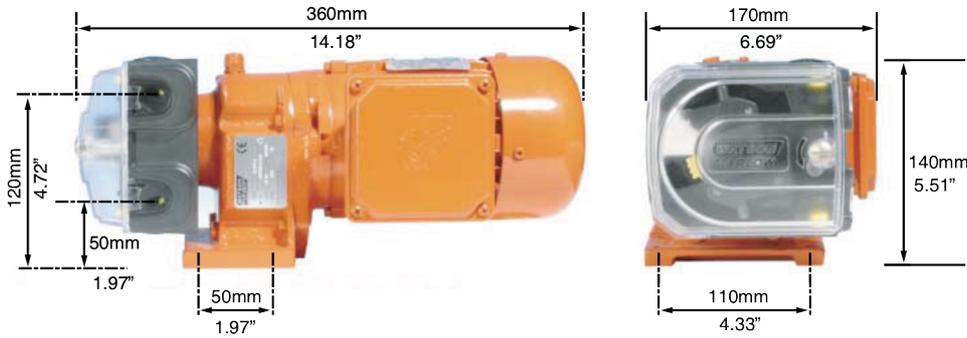
## Materials of construction

	521F with R2C pumphead
Bearings	Stainless steel
Gearbox	Cast iron
Guide roller assembly	Stainless steel
Motor	Aluminium
Mounting plate assembly	Aluminium
Pumphead guard	Polycarbonate (PC)
Pumphead roller assembly	Stainless steel 316
Pumphead rotor assembly	Polyphenylene sulphide (PPS), Stainless steel 316
Pumphead track	Glass filled PPS (polyphenylene sulphide)

Information listed covers the complete range of fixed speed pumps.

For detailed specifications of individual models/components and other drive/pumphead options, refer to user manual or contact your local Watson-Marlow Fluid Technology Solutions representative.

## 521F with R2C pumphead dimensions



### Product codes

Pump and pumphead product codes					
Description					Partcode
521F/R2C 60rpm pump					050.8122.2L0
521F/R2C 213rpm pump					050.8152.2L0
521F/R2C 291rpm pump					050.8172.2L0
520R2C pumphead					053.1031.2L0
Tubing product codes					
Tubing bore/wall (mm)	Bioprene	Marprene	Platinum Silicone	STA-PURE PCS	Chem-Sure®
1.6 / 2.4	933.0016.024	902.0016.024	913.A016.024	960.0016.024	965.0016.024
3.2 / 2.4	933.0032.024	902.0032.024	913.A032.024	960.0032.024	965.0032.024
4.8 / 2.4	933.0048.024	902.0048.024	913.A048.024	960.0048.024	965.0048.024
6.4 / 2.4	933.0064.024	902.0064.024	913.A064.024	960.0064.024	965.0064.024
8.0 / 2.4	933.0080.024	902.0080.024	913.A080.024	960.0080.024	965.0080.024
9.6 / 2.4	933.0096.024	902.0096.024	913.A096.024		

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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