

323Dz/4D general purpose dispensing pump

300 series

Watson-Marlow Pumps

FEATURES

- Flow rates from 0.6ml/min to 1600ml/min
- High-accuracy microprocessor control within $\pm 1.0\%$
- Zero maintenance brushless DC motor
- Menu driven calibration procedure with mid-batch re-calibration possible at any time
- Adjustable speed 'ramp' reduces splashing and frothing
- Non-drip function eliminates drips at dose end
- Selectable dual voltage operation 100-120V/220-240V
- Dispensing by keypress or a remote footswitch/handswitch
- Fitted with four roller 314D pumphead with flip-top design, ensuring ultra-fast set-up, improved accuracy and low pulsation
- Snapfit extension pumpheads provide up to six channels

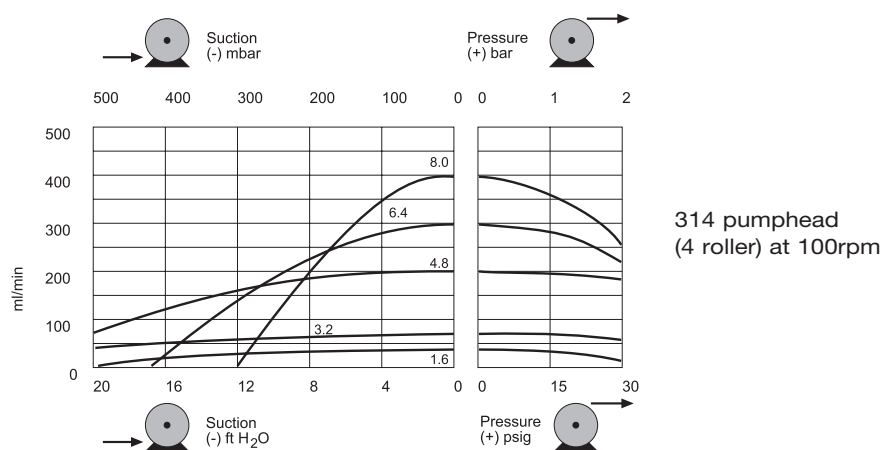


Watson-Marlow... Innovation in Full Flow

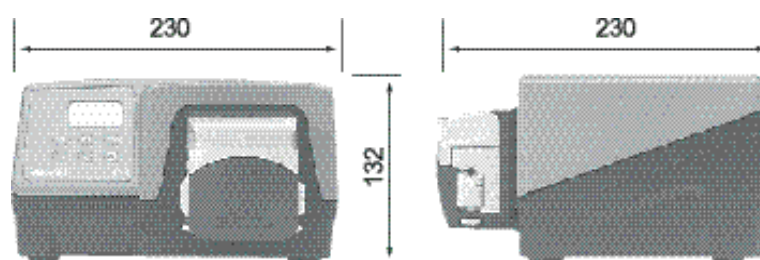
PERFORMANCE

Flow rates (ml/min)						
		1.6mm	3.2mm	4.8mm	6.4mm	8.0mm
323Dz/4D	Flow rates (ml/min)	0.5-100	1.7-340	3.8-760	6-1200	8-1600
2.0 - 400rpm	Minimum recommended dose (ml)	1.4	5.0	11.0	18.0	25.0

Dose size - using 323Dz/4D at 400rpm						
	Accuracy	10ml	25ml	50ml	100ml	250ml
Recommended tube bore	High	1.6mm	3.2mm	4.8mm	8.0mm	8.0mm
Approximate dose time - seconds		6	4.4	3.9	3.8	9.4
Recommended tube bore	Normal	3.2mm	4.8mm	8.0mm	8.0mm	8.0mm
Approximate dose time - seconds		1.8	2.0	1.9	3.8	9.4



TECHNICAL DRAWINGS



TECHNICAL SPECIFICATION

Weight	4.7kg
Operational temperature range	5C to 40C
Noise	<70dBA at 1m
Control ratio	200:1
Standards	CE, EN60529 (IP31)
Supply	1ph, 100-120V, 220-240V 50/60Hz, 100VA

MATERIALS OF CONSTRUCTION

Component	Material
Drive	
Drive base	Powder coated aluminium coating
Drive top	Self-coloured ABS plastic
Pumphead	
Body rear	Glass filled polypropylene
Body front, body front extension	IXEF
Mounting plate, track and lever	IXEF
Rotor, tube clamp	Glass filled Nylon
Mounting plate locking tab	Glass filled Nylon
Rollers	MoS2 filled Nylon 6 (Nylatron)
Spindles	Electroless nickel plated, hardened steel
Fixings	Stainless steel
Bearings	Carbon steel - main shaft Sintered bronze - rollers

ORDER INFORMATION

Product codes		
Description		Partcode
323Dz	Drive only	036.3184.000*
314DW	4 roller extension pumphead for 1.6mm wall tube	033.4451.000
314X	4 roller extension pumphead for 1.6mm wall tube (maximum five)	033.4431.000

*Replace last 0 with A, E or U for American, European or UK mains supply (American 110V 1ph 60Hz)

Tubing				
Bore/wall (mm)	Bioprene	Marpene	Platinum Silicone	PVC
1.6 / 1.6	903.0016.016	902.0016.016	913.A016.016	950.0016.016
3.2 / 1.6	903.0032.016	902.0032.016	913.A032.016	950.0032.016
4.8 / 1.6	903.0048.016	902.0048.016	913.A048.016	950.0048.016
6.4 / 1.6	903.0064.016	902.0064.016	913.A064.016	950.0064.016
8.0 / 1.6	903.0080.016	902.0080.016	913.A080.016	950.0080.016
Bore/wall (mm)	Neoprene	STA-PURE®	Chem-Sure®	Fluorel®
1.6 / 1.6	920.0016.016	960.0016.016	965.0016.016	970.0016.016
3.2 / 1.6	920.0032.016	960.0032.016	965.0032.016	970.0032.016
4.8 / 1.6	920.0048.016	960.0048.016	965.0048.016	970.0048.016
6.4 / 1.6	920.0064.016	960.0064.016	965.0064.016	970.0064.016
8.0 / 1.6	920.0080.016	960.0080.016	965.0080.016	970.0080.016

All flow rates shown were obtained pumping water at 20C (68F) with zero suction and delivery heads. Watson-Marlow, 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. LoadSure is a trademark of Watson-Marlow Limited. © STA-PURE PFL and © STA-PURE PCS are registered trademarks of W.L Gore & Associates Inc. Please state the product code when ordering pumps and tubing.

**WATSON
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Pumps**

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