



Improving your PERFORMANCE

323Dz/D general purpose dispensing pump

Technical information and features

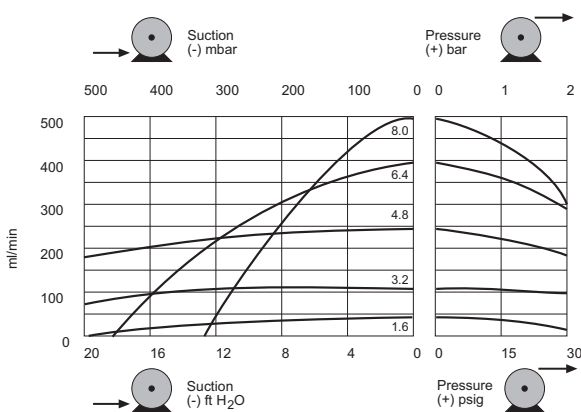
- Flow rates from 0.06ml/min to 2000ml/min
- High-accuracy microprocessor control within $\pm 1.0\%$
- Zero maintenance brushless DC motor
- Menu driven calibration procedure with mid-batch re-calibration possible at any time
- Adjustable speed 'ramp' reduces splashing and frothing
- Non-drip function eliminates drips at dose end
- Selectable dual voltage operation 100-120V/220-240V
- Dispensing by keypress or a remote footswitch/handswitch
- Fitted with three roller 313D pumphead with flip-top design, ensuring ultra-fast set up. Accepts up to five tube bore sizes
- Four roller 314D pumphead option - improved accuracy and low pulsation
- Snapfit extension pumpheads provide up to six channels



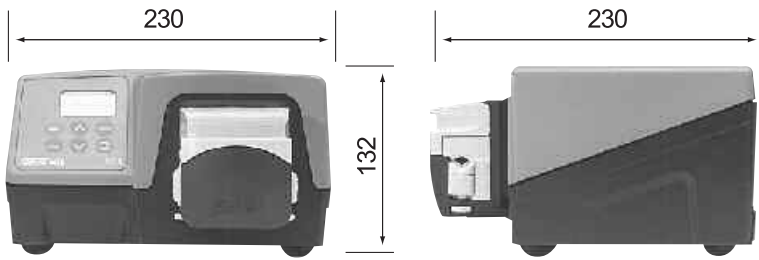
Flow rate and dose size ranges

		Tube bore - flow rates and dose size capabilities				
		1.6mm	3.2mm	4.8mm	6.4mm	8.0mm
323Dz/D	Flow rates (ml/min)	0.54-110	2.0-400	4.4-880	7.2-1400	10-2000
2.0 - 400rpm	Minimum recommended dose (ml)	1.4	5.0	11.0	18.0	25.0

		Dose size - using 323Dz/D at 400rpm				
		Accuracy	10ml	25ml	50ml	100ml
Recommended tube bore	High	1.6mm	3.2mm	4.8mm	8.0mm	8.0mm
Approximate dose time - seconds	Normal	5.6	3.8	3.4	3.0	7.5
Recommended tube bore		3.2mm	4.8mm	8.0mm	8.0mm	8.0mm
Approximate dose time - seconds		1.5	1.7	1.5	3.0	7.5



313 pumphead (3 roller) at 100rpm



323Dz/D general purpose dispensing pump

Product codes		
323Dz/D	Drive + 313D three roller pumphead	030.3184.3D0*
313X	3 roller extension pumphead for 1.6mm wall tube (maximum five)	033.3431.000

*Replace last 0 with **A, E** or **U** for **American, European** or **UK** mains supply (**American 110V 1ph 60Hz**)
If required for use with STA-PURE and Chem-Sure tubing, please contact Watson-Marlow Bredel technical support for drive and pumphead selection

Tube ordering codes				
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

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Please state the product code when ordering pumps and tubing.
2.4mm wall tubing and compatible pumpheads also available for more viscous fluids

Specification

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

Materials of construction

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



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