323E/D, 323S/D, 323U/D and 323Du/D variable speed pumps with three roller pumphead

FEATURES

- Flow rates from 0.81 to 2000 ml/min
- High visibility digital display and membrane keypad
- Compact design and chemical resistant case
- Zero maintenance, quiet brushless DC motor
- Rapid and simple tube loading 313DW flip-top pumphead uses
 1.6mm wall thickness tubing
- Snap-fit 313X extension pumpheads for up to 6 channels of flow
- Alternative pumpheads 313DW2 three roller pumphead, 2.4mm wall thickness for higher suction and delivery pressure up to 2 bar 314DW four roller pumphead, 1.6mm wall thickness for tube for continuous duties up to 300rpm 314DW2 four roller pumphead, 2.4mm wall thickness for higher suction and delivery pressure up to 2 bar





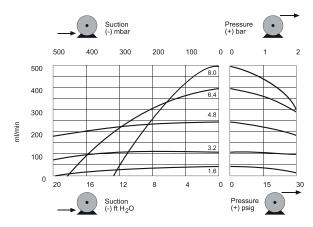
Watson-Marlow...Innovation in Full Flow

TECHNICAL DATA

Functionality	323E	323S	323U	323Du
Enclosure – ingress protection rating	IP31	IP31	IP31	IP31
Manual control				
Keypad speed control	•	•	•	•
15-400rpm 27:1 speed control	•			
3-400rpm 133:1 speed control		•	•	•
1.5-220rpm 147:1 speed control		•	•	•
MemoDose for accurate single shot dosing		•	•	•
Remote control				
Run/Stop, direction change via contact closure or 5V TTL			•	•
Remote operation of MemoDose (hand/foot switch)			•	•
Analogue speed control				
Inputs; 0-10V or 4-20mA			•	•
RS232 digital communication				
Digital serial control				•
Security				
Keypad lock to protect set-up		•	•	•

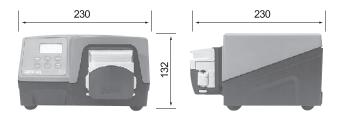
PERFORMANCE

Flow rates (ml/min)						
	Speed rpm	1.6mm	3.2mm	4.8mm	6.4mm	8.0mm
323E/D (3 roller pumphead)	15 - 400	4.1 - 110	15 - 400	33 - 880	54 - 1400	75 - 2000
323S/D 323U/D 323Du/D (3 roller pumphead)	3 - 400	0.81 - 110	3.0 - 400	6.6 - 880	11 - 1400	15 - 2000



313D pumphead (3 roller) at 100rpm

TECHNICAL DRAWINGS



TECHNICAL SPECIFICATION

323E/D, 323S/D, 323U/D and 323Du/D				
Weight	4.7kg			
Temperature	5C to 40C (40F to 104F)			
Noise	< 70dB(A) at 1m			
Control ratio	27:1-323E/D, 133:1-323S/D,323U/ D,323Du/D			
Standards	CE, IEC335-1, EN60529(IP31)			
Power supply	1ph, 100-120V, 200-240V, 50/60Hz, 100VA			

MATERIALS OF CONSTRUCTION

Component	Material
Drive base	Powder coated aluminium casting
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 clamps	Glass filled Nylon
Mounting plate locking tab	Glass filled Nylon
Rollers	MoS2 filled Nylon 6 (Nylatron)
Roller spindles	Electroless nickel plated, hardened steel
Fixings	Stainless steel
Bearings	Carbon steel - main shaft Sintered bronze - rollers
Drive shaft	Stainless steel

ORDER INFORMATION

Product codes					
Description		Partcode			
323E/D	drive and 313D three roller pumphead	030.3124.3D0*			
323S/D	drive and 313D three roller pumphead	030.3134.3D0*			
323U/D	drive and 313D three roller pumphead	030.3144.3D0*			
323Du/D	drive and 313D three roller pumphead	030.3154.3D0*			
323E	drive only	036.3124.000*			
323S	drive only	036.3134.000*			
323U	drive only	036.3144.000*			
323Du	drive only	036.3154.000*			
313DW	3 roller pumphead for 1.6mm wall tube	033.3451.000			
313X	3 roller extension pumphead for 1.6mm wall tube (maximum five)	033.3431.000			
313DW2	3 roller pumphead for 2.4mm wall tube	033.3551.000			

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

Tubing								
Bore/wall(mm)	Bioprene	Marprene	Pumpsil	PVC	Neoprene	STA-PURE® Series PCS	STA-PURE® Series PFL	Fluorel®
1.6/1.6	903.0016.016	902.0016.016	913.A016.016	950.0016.016	920.0016.016	961.0016.016	966.0016.016	970.0016.016
3.2/1.6	903.0032.016	902.0032.016	913.A032.016	950.0032.016	920.0032.016	961.0032.016	966.0032.016	970.0032.016
4.8/1.6	903.0048.016	902.0048.016	913.A048.016	950.0048.016	920.0048.016	961.0048.016	966.0048.016	970.0048.016
6.4/1.6	903.0064.016	902.0064.016	913.A064.016	950.0064.016	920.0064.016	961.0064.016	966.0064.016	970.0064.016
8.0/1.6	903.0080.016	902.0080.016	913.A080.016	950.0080.016	920.0080.016	961.0080.016	966.0080.016	970.0080.016
1.6/2.4	903.0016.024	902.0016.024	913.A016.024			961.0016.024	966.0016.024	
3.2/2.4	903.0032.024	902.0032.024	913.A032.024			961.0032.024	966.0032.024	
4.8/2.4	903.0048.024	902.0048.024	913.A048.024			961.0048.024	966.0048.024	
6.4/2.4	903.0064.024	902.0064.024	913.A064.024			961.0064.024	966.0064.024	





Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.