313VDL/D variable speed pumps with brushless motor

FEATURES

- High quality brushless 24VDC Pump with built in controller for precise speed adjustment, and low electrical and audible noise
- Very long service life due to no internal wearing components
- Flow rates up to 1750 ml/min
- Rapid and simple tube loading flip-top pumphead
- Snap-fit 313X extension pumpheads available



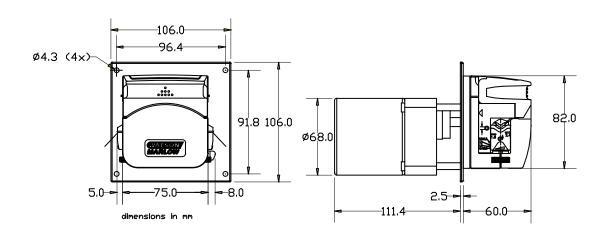


Watson-Marlow...Innovation in Full Flow

PERFORMANCE

Flow rates 1.6mm wall tubing					
Tube bore (mm)	Speed (rpm)				
Tube bore (mm)	100	350			
0.5	3.00	10.5			
0.8	6.00	21.0			
1.6	26.0	91.0			
3.2	100	350			
4.8	220	770			
6.4	360	1260			
8.0	500	1760			

DIMENSIONS



TECHNICAL SPECIFICATION

Motor type	24VDL (Brushless DC with built in controller)
Motor torque output	100 rpm 7.3 kgcm 350 rpm 21 kgcm
Power consumption	35VA
Weight	1.0kg

Motor/Controller Connections					
Lead no.	Lead color	Function	Descriptions		
1	brown	FW/RV	Direction control input High' CW, 'Low' CC (shaft side)		
2	white	Vin	Input voltage (set-point) for speed loop. Resulting speed approx. 1000rpm/V Vin < 4V: motor at full speed, speed loop off (open loop)		
3	green	FG	Frequency generator output, 36 ppr, Rout = 4kOhm (approx.)		
4	black	GND	Motor return, ground (0v)		
5	red	Vp	Motor supply voltage +24V (Min -14V Max 30V)		
6	bare	shield	Shield for cable and connection to motor housing		

ORDER INFORMATION

	Speed (rpm)			
Description	Supply	Speed (rpm)	Part code	
313VDL/D	24VDC	100	040.NP10.3D0	
	24VDC	350	040.NU10.3D0	