501VDL/RL variable speed brushless DC pump

FEATURES

- High quality pump combined with a brushless DC motor for precise speed regulation and low electrical and audible noise
- 24V brushless DC gear motor with built in controller
- The built in controller allows for speed control, stop/start, direction and frequency tacho output
- High quality pumphead with a spring loaded rotor assembly for optimal tube life and accurate flows
- Flow rates up to 3500 ml/min (55.48 USGPH) with 8.0mm (0.32in) bore tubing





Watson-Marlow...Innovation in Full Flow

PERFORMANCE

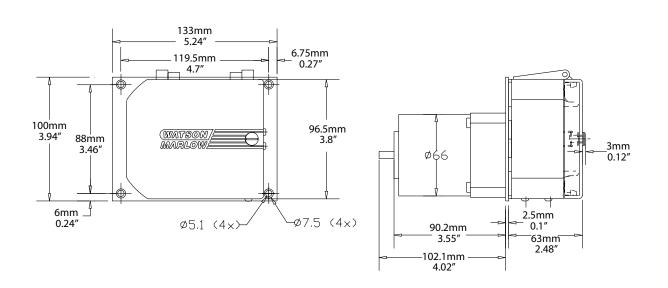
Flow rates 1.6mm wall tubing

	Speed (rpm)		
Tube bore (mm)	100	350	
0.5	4.00	14.0	
0.8	12.0	42.0	
1.6	43.0	151	
3.2	186	651	
4.8	405	1418	
6.4	635	2223	
8.0	1000	3500	

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	
	white		Resulting speed approx. 1000 rpm/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	

DIMENSIONS



TECHNICAL SPECIFICATION

501VDL/RL			
Motor type	12V or 24V direct current		
Motor torque output	100rpm 7.3 kgcm 350rpm 21.0 kgcm		
Motor consumption	35VA		
Weight	3.2kg (7lb 1oz)		

ORDER INFORMATION

	Speed (rpm) 50/60Hz			
Description	Supply	Speed (rpm)	Part code	
501VDL/RL	24VDL	100	040.NP10.RL0	
	24VDL	350	040.NU10.RL0	

WATSON MARLOW Pumps