

## 313FD/D fixed/variable speed DC pump



Made up of one 313D pumphead, a 12 or 24V DC motor, gearbox, and a faceplate, these pumps provide flow rates up to 500 ml/min from 8.0 mm bore tubing. Additionally, snap-on the 313X extension pumpheads to enable multi-channel pumping, depending on the torque limit of the drive (see page 18 for details of pumphead torque figures). The six drives available give a choice of speeds and voltages.

When used with the 300 series OEM speed control board 039.2021.000, the 12V 313FD/D provides a variable speed pumping system with a speed control ratio of 10 to 1 and stop/start facilities.

### Ordering information

12V DC		24V DC	
10rpm	030.7002.000	10rpm	030.7502.000
50rpm	030.7022.000	50rpm	030.7522.000
100rpm	030.7062.000	100rpm	030.7562.000

### Specifications

Motor type	12 or 24V DC
Motor torque output	10rpm 24kgcm; 50rpm 11kgcm; 100rpm 6kgcm
Power consumption	17VA
Weight	2kg
Brush life	2500 hours

### Flow rates

rpm	1.6mm (1/16") wall thickness tubing						
	0.5mm 1/50"	0.8mm 1/32"	1.6mm 1/16"	3.2mm 1/8"	4.8mm 3/16"	6.4mm 1/4"	8.0mm 5/16"
10	0.30	0.70	2.70	10.0	22.0	36.0	50.0
50	1.50	3.50	14.0	50.0	110	180	250
100	3.00	7.00	27.0	100	220	360	500

Minimum flows are 10% of rates given with OEM speed control board

For tube selections, see Tables A and B on page 48.

