

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.

