

313FDP/D fixed/variable speed DC pump, precision motors



The 313FDP/D uses our highest quality DC motor, offering precise speed adjustment, low electrical and audible noise, and a long operating life.

The 313FDP/D OEM pump is made up of a single channel 313D pumphead, a powerful 12 or 24 volt DC motor-gearbox, mounted on an aluminum faceplate. The coreless DC motors provide high torque output, and speed in a small case size. When fitted with 8.0 mm x 1.6 mm tubing, these pumps provide flow rates of up to 1250 ml/min. Snap-on the 313X extension pumpheads to enable multi-channel pumping, depending on the torque limit of the drive. When used with the 400 series OEM speed control board the 313FDP/D provides a variable speed pumping system with a speed control ratio of 20 to 1, as well as stop/start and direction facilities, and analog control of speed. See page 37 for speed controls.

Ordering information

12V DC		24V DC		Power Consumption
50rpm	040.MK10.3D0	50rpm	040.EK10.3D0	5 Watt
100rpm	040.MP10.3D0	100rpm	040.LP10.3D0	30 Watt
250rpm	040.MT10.3D0	250rpm	040.LT10.3D0	30 Watt

Specifications

Motor type	12 or 24V DC
Motor torque output	50rpm 11kgcm 100rpm 14kgcm 250rpm 6kgcm
Weight	4.4lbs (2kg)

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"
50	1.50	3.00	13.0	50.0	110	180	250
100	3.00	6.00	26.0	100	220	360	500
250	7.50	15.0	65.0	250	550	900	1250

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

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

