

Specification Sheet

UK manufacturers of quality peristaltic pumps

150 series DC powered oem Peristaltic pumps

Specification Sheet 1 (last updated May 2019)

- Easy tube change
- Continuous or fixed tube length
- Accurate dispense
- 3 (standard) or 6 (optional) roller system
- Planetary gearbox (no gearbox on Stepper models)
- Integrated positional encoder (optional)
- Choice of 3 different tube diameters
- Suitable for continuous operation
- Panel mounting
- No lubrication—no service
- Self priming



DC Motor:	12V /24V DC
Current at full speed	250mA
Max ambient operational temperature	
Material wetted parts	
Port connectors (optional)	
Max pressure	0

Weight 125g
Life expectancy>1000 hours
Optional back shaft motor encoder 160 pulses per rotor rev
ID Ø1.0mm tubeup to 12ml/min
ID Ø2.0mm tubeup to 40ml/min
ID Ø3.0mm tube up to 90 ml/min

Choice of various tube sizes in Silicone, Lagoprene & PHI. Continuous tubing and fitted version available. Standard gear box ratio is 1:22.5, 245rpm @ 12V DC. Alternative gear box ratios available upon request subject to order quantities. Encoder shafts & encoders available on request.

Pumps supplied without tube, tube clamps or tube connectors

150-245-012-3	Pump 12VDC 260RPM 3 rollers w/o tubing
150-520-024-3	Pump 12VDC 260RPM 3 rollers w/o tubing
150-800-012-3	Pump Stepper motor 3 rollers w/o tubing

150-245-012-6	Pump 12VDC 260RPM 6 rollers w/o tubing
150-520-024-6	Pump 12VDC 260RPM 6 rollers w/o tubing
150-800-012-6	Pump Stepper motor 6 rollers w/o tubing

Pumps supplied with Silicone tubing, tube clamps and tube connectors

150-245-012-201-3 Pump 12VDC 260RPM 3 rollers 1mr	n sil
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150-245-012-201-6 Pump 12VDC 260RPM 6 rollers 1mm sil

150-800-012-201-3 Pump Stepper motor 3 rollers 1mm sil

Williamson Manufacturing Company Ltd

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150-800-012-201-6	Pump Stepper motor 6 rollers 1mm sil
150-245-012-202-3	Pump 12VDC 260RPM 3 rollers 2mm sil
150-245-012-202-6	Pump 12VDC 260RPM 6 rollers 2mm sil
150-800-012-202-3	Pump Stepper motor 3 rollers 2mm sil
150-800-012-202-6	Pump Stepper motor 6 rollers 2mm sil
150-245-012-203-3	Pump 12VDC 260RPM 3 rollers 3mm sil
150-245-012-203-6	Pump 12VDC 260RPM 6 rollers 3mm sil
150-800-012-203-3	Pump Stepper motor 3 rollers 3mm Sil
150-800-012-203-6	Pump Stepper motor 6 rollers 3mm Sil

Pumps supplied with Lagoprene tubing, tube clamps and tube connectors

151-245-012-202-3	Pump 12VDC 260RPM 3 rollers 2mm sant
151-245-012-202-6	Pump 12VDC 260RPM 6 rollers 2mm sant
151-800-012-202-3	Pump Stepper motor 3 rollers 3mm food sant
151-800-012-202-6	Pump Stepper motor 6 rollers 3mm food sant

Pumps supplied with PHI tubing, tube clamps and tube connectors

153-245-012-201-3	Pump 12VDC 260RPM 3 rollers 1mm PHI
153-245-012-201-6 153-800-012-201-3	Pump 12VDC 260RPM 6 rollers 1mm PHI Pump Stepper motor 3 rollers 1mm PHI
153-800-012-201-6	Pump Stepper motor 6 rollers 1mm PHI

Silicone tube Set (75mm long) with pp connector

150-01-01	Silicone tube (plat cured) 1mm ID x 1mm WT N420/410
150-02-01	Silicone tube (plat cured) 2mm ID x 1mm WT N220-6
150-03-01	Silicone tube (plat cured) 3mm ID x 1mm WT N230-6

Lagoprene tube Set (75mm long) with pp connector

151-02-01	Lagoprene tubing 2mm ID x 1mm WT N220
151-03-01	Lagoprene tubing 3mm ID x 1mm WT N230

PHI tube Set (75mm long) with pp connector

153-01-01 Pharmed tubing 1mm ID x 1mm WT N420/410

Tube Clamp (for use with continuous tube)

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150-TC-01 Tube clamp for 1mm tube (two required per pump)
150-TC-02 Tube clamp for 2mm tube (two required per pump)
150-TC-03 Tube clamp for 2mm tube (two required per pump)

Silicone tubing (per metre)

150-01-01-1M Silicone tubing 1mm ID x 1mm WT per metre
150-02-01-1M Silicone tubing 2mm ID x 1mm WT per metre
150-03-01-1M Silicone tubing 3mm ID x 1mm WT per metre

Lagoprene tubing (per metre)

151-02-01-1M Santoprene tubing 2mm ID x 1mm WT per metre
151-03-01-1M Norprene tubing 3mm ID x 1mm WT per metre

PHI tubing (per metre)

153-01-01-1M Phar Med tubing 1mm ID x 1mm WT per metre

Hose Connectors (as used in tube sets)

Micro 1 1mm barbed connector pp N420/410 pair Micro 2 2mm barbed connector pp N220-6 pair Micro 3 3mm barbed connector pp N230-6 pair

The easiest way to place an order or check prices is via our online shop at http://www.williamson-shop.co.uk but please contact us for any requirements not listed or to place an order over the phone.

Tube data:-

Silicone Premium silicone tube for food and biomedical applications. Suitable for sterilization via autoclave or dry heat. FDA registered.

Lagoprene Food grade thermoplastic elastomer for food and beverage applications. Complies with NSF 51 (food equipment materials)

PHI Premium medical grade thermosplastic elastomer for pharmaceutical, biological and food / beverage applications. Suitable for sterilization via autoclave, ethylene oxide and gamma. FDA registered to 21CFR177.2600

Stepper Motor Drawing:-

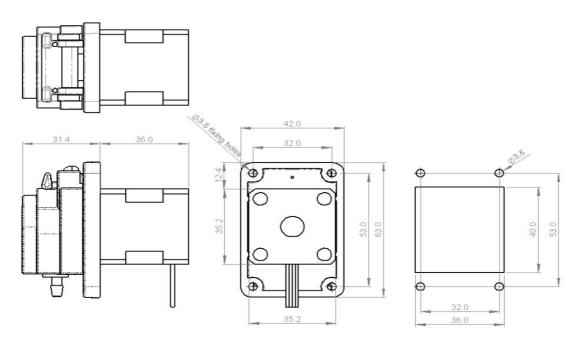
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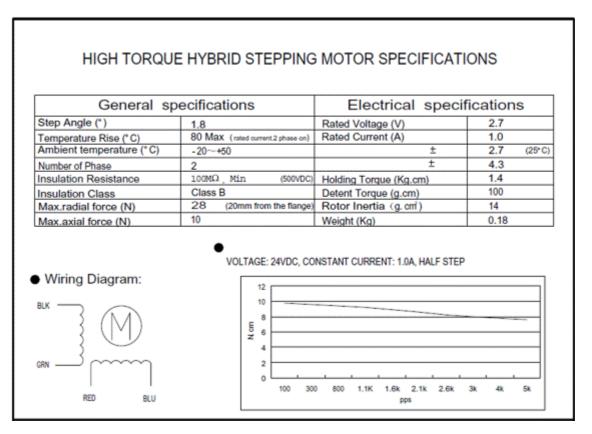


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Stepper Motor Technical data:-



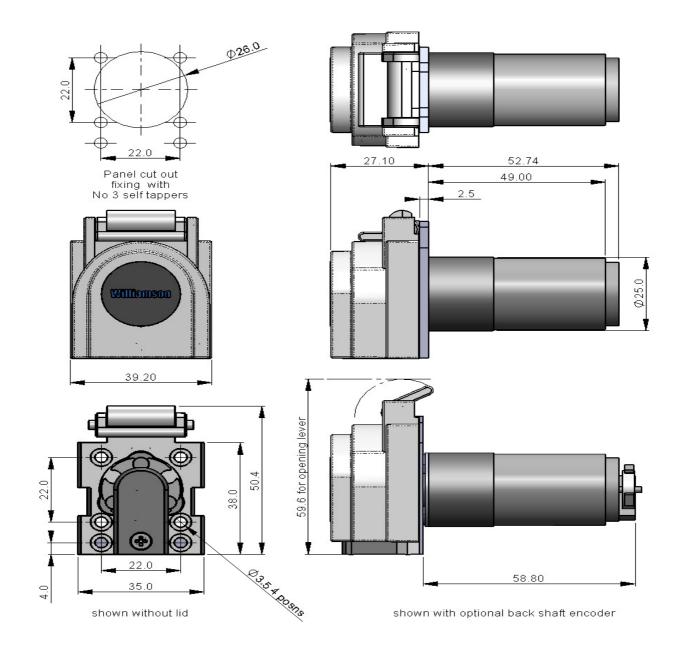
DC Motor drawing:-

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