

## 220 SERIES with DC powered motor

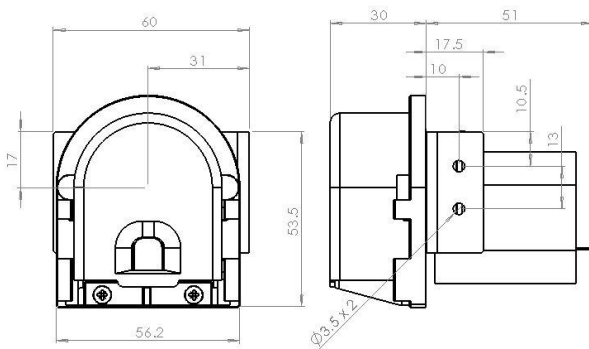
- Compact
- Low Cost
- Multiple Speed Options
- Various Tube Materials
- 2,3,4 or 6 Rollers
- Integral Tube Grips
- Easy Tube Change



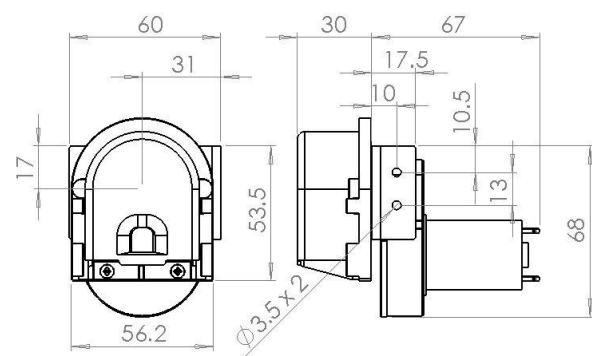
The 220 series range of peristaltic pumps with DC motors offer a low cost, compact & reliable means of dosing a wide range of liquids. They are available in various configurations of tubing type & motor speed giving flow rates of between 3 & 198 ml/min. The pump head tubing is easily changed by sliding up and removing the pump cover.

## DIMENSIONS (mm)

Variants (A) covered by this drawing are: 5, 18, 35 and 70 RPM brushed dc.



Variants (B) covered by this drawing are: 120 & 150. RPM brushed dc.



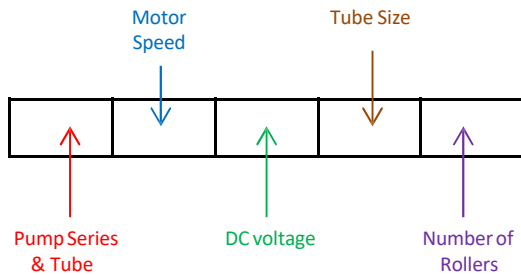
The Williamson Manufacturing Company Ltd provides no warranty on usage of pumps. We recommend that life tests be carried out prior to use. This information is given in good faith and believed to be correct at the time of publishing. The Williamson Manufacturing Company Ltd cannot accept responsibility for inaccuracy or any errors contained herein. Copyright the Williamson Manufacturing Company Ltd 2008.

**Williamson Manufacturing Co Ltd**  
**Unit 5, Lady Bee Industrial Estate**  
**Albion Street**  
**Southwick**  
**West Sussex BN42 4EP**  
**UK**

Email: [sales@williamsonpumps.co.uk](mailto:sales@williamsonpumps.co.uk)

# 220 SERIES with DC powered motor

Devise your product code by using codes from the table on the right where stated below.



222-035-024-050/4

Example product code for 220 series pump head fitted with Viton® tubing, 35 RPM, 24v DC, 5mm ID tubing & 4 rollers

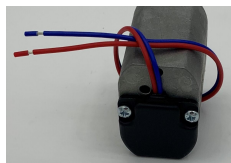
Motor current:

For Speeds 120 rpm & above – 400mA.

For Speeds 18, 35 & 70 rpm – 6v DC 300mA. 12v DC 170mA  
18v DC 115mA. 24v DC 95mA

For 5 rpm – 60mA.

Motor connection covers with flying leads are available for the DC motor driven pumps just add suffix -cov to the part number.



Variant (A) cover and flying leads



Variant (B) cover and flying leads

	Product code
<b>Pump series and tube material</b>	
Silicone (Peroxide Cured)	220
Tygon® A60F Norprene	221
Viton®	222
Tygon Chemical® Norprene (3mm & 5mm only)	227
<b>Speed rpm</b>	
5 (available in 12 & 24v DC only) (A)	-005
18 (available in 6 & 12v DC only) (A)	-018
35 (A)	-035
70 (available with 2 & 3 rollers only) (A)	-070
120 (available in 24v Dc only) (B)	-120
150 (available in 12v DC only) (B)	-150
<b>DC Voltage</b>	
6	-006
12	-012
18	-018
24	-024
<b>Tube Size (bore) mm</b>	
5.0	-050
<b>Number of rollers</b>	
2	/2
3 (Supplied as standard)	/3
4	/4
6	/6

## Materials of construction

Body & Back Plate	Rotor	Rollers	Bracket
SAN	POM	PP	Zintec (Treated Steel)

## Flow Rates ml per revolution

No of Rollers	5.0 ID tube
2	1.32
3	1.18
4	0.94
6	0.6

Flow rates based on silicone tubing. Flow rates for Tygon A60F® will be approx. 10% less, Tygon Chemical® & Viton® will be 20-25% less.

Flow rates for guidance only and subject to tube tolerance, tube age, fluid viscosity & back pressure.

The Williamson Manufacturing Company Ltd provides no warranty on usage of pumps. We recommend that life tests be carried out prior to use. This information is given in good faith and believed to be correct at the time of publishing. The Williamson Manufacturing Company Ltd cannot accept responsibility for inaccuracy or any errors contained herein. Copyright the Williamson Manufacturing Company Ltd 2008.

**Williamson Manufacturing Co Ltd**  
 Unit 5, Lady Bee Industrial Estate  
 Albion Street  
 Southwick  
 West Sussex BN42 4EP  
 UK  
 Email: [sales@williamsonpumps.co.uk](mailto:sales@williamsonpumps.co.uk)