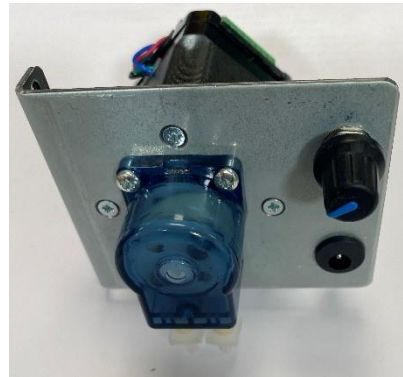


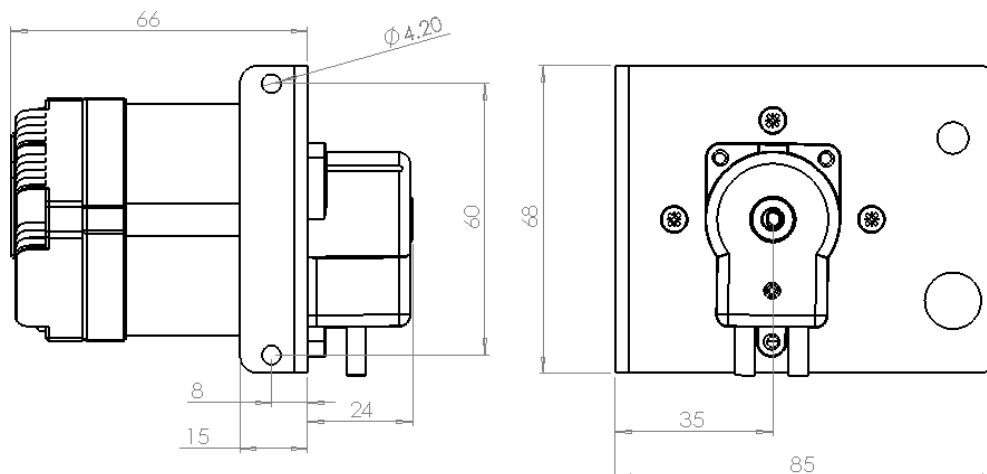
- Compact
- Low Cost
- Wide flow rate range
- Multiple options



The micro range of 100 series stepper motor driven pump heads offer a low cost, reliable means of dosing a wide variety of fluid. They are available in various configurations such as: 2 or 4 roller, multiple tube materials and sizes giving flow rates between 0.0025 and 39ml per minute. The pumps are available with or without built in drivers, the “A” drives offer a small on driver speed control potentiometer suitable for uses such as calibration where the control is going to be used very infrequently or with a “B” drive which can have a bracket mounted (as pictured) or remote speed control potentiometer or the speed can be controlled by a 0-5v signal. With either driver the default speed control range is 0.15 to 150 rpm although they can be supplied as 0.15 to 38rpm or 0.15 to 20 rpm. As standard the units complete with driver are supplied with a 24v DC plug in power supply for use on 110/230v AC supplies but can be supplied for customer direct 24v DC connection.

The unit can also be supplied with a double (stacked) pump head (see separate data sheet).

## Dimensions (mm)



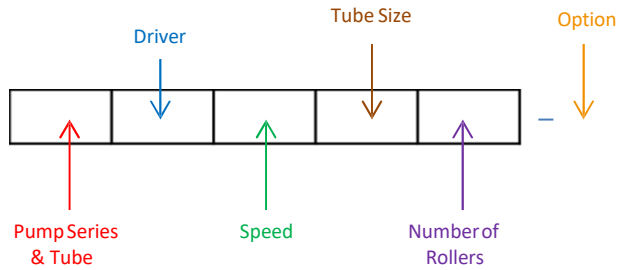
The Williamson Manufacturing Company Ltd provides no warranty on usage of pumps. We recommend that life tests be carried out prior to use. This information is given in good faith and believed to be correct at the time of publishing. The Williamson Manufacturing Company Ltd cannot accept responsibility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



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# 100 series stepper motor driven pump.

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



102-SMB-150-030-2

Example product code for 100 series stepper pump fitted with Viton® tubing, SMB driver, 0.15 to 150 rpm, 3mm ID tubing & 2 rollers

As standard units supplied without a driver do **not** come as standard with a DC power supply.  
Units fitted with an "A" type driver come as standard with a 24v power supply and DC socket.  
Units fitted with a "B" type driver come as standard with a 24v power supply, DC socket & bracket mount speed control potentiometer.

Note #1: When option NP is selected "A" type driver units will be supplied without power supply or DC socket. "B" type driver units will be supplied without power supply, DC socket & bracket mount speed control.  
To use 0-5v speed control or remote potentiometer option NP must be selected.

	Product Code
<b>Pump Series and Tube Material</b>	
Silicone	100
Tygon® A60F Norprene	101
Viton®	102
Tygon Chemical® Norprene (3mm tube size only)	107
<b>Driver Type</b>	
None	
A type (on driver speed control)	
B type (separate speed control)	
<b>Motor Speed range RPM</b>	
0.15 to 20	-020
0.15 to 38	-040
0.15 to 150	-150
<b>Tube Size</b>	
0.8	-008
1.6	-016
3.0	-030
<b>Number of rollers</b>	
2	/2
4	/4
<b>Options</b>	
No power supply (see note #1)	-NP

For more information see [www.wmcpumps.com](http://www.wmcpumps.com)

## Flow rates ml per revolution

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

No of Rollers	0.8mm ID Tube			1.6mm ID Tube			3.0mm ID Tube			
	SIL	A60F	Viton	SIL	A60F	Viton	SIL	A60F	Viton	Tygon Chemical
2	0.03	0.027	0.025	0.1	0.09	0.08	0.26	0.2	0.18	0.19
4	0.02	0.02	0.016	0.08	0.07	0.06	0.22	0.16	0.14	0.15

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