

150 series stepper motor driven peristaltic pump for liquids

Specification Sheet 1 (last updated Jul 2011)

Panel mounted Bipolar Stepper Motor, oem peristaltic pumps for accurate dispense of liquids, from 0.2ml/min to 270ml/min. Our USB stepper controller is best suitable for this pump.



- Easy tube replacement
- Continuous or fixed tube length
- Accurate dispense
- 3 roller system
- Choice of 3 tube diameters
- Suitable for continuous operation
- Panel mounting
- No lubrication
- Self priming
- CE marked

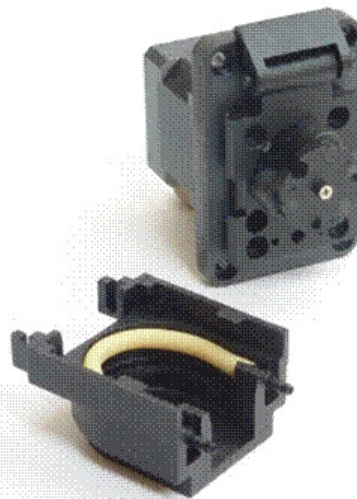
Stepper Motor:	24V DC
Current max.....	2.5A
Max ambient operational temperature.....	50°C
Material wetted parts.....	Santoprene or Silicone
Max pressure.....	1 bar
Weight	227g
Life expectancy.....	>1000 hours
Max speed using Uno controller.....	2600steps/sec(780rpm)
Steps per rev.....	200

Use the following data to calculate your requested rotor speed:

Flow per 360° rotor revolution

ID Ø1.0mm tube.....	48µl
ID Ø2.0mm tube.....	160µl
ID Ø3.0mm tube.....	345µl

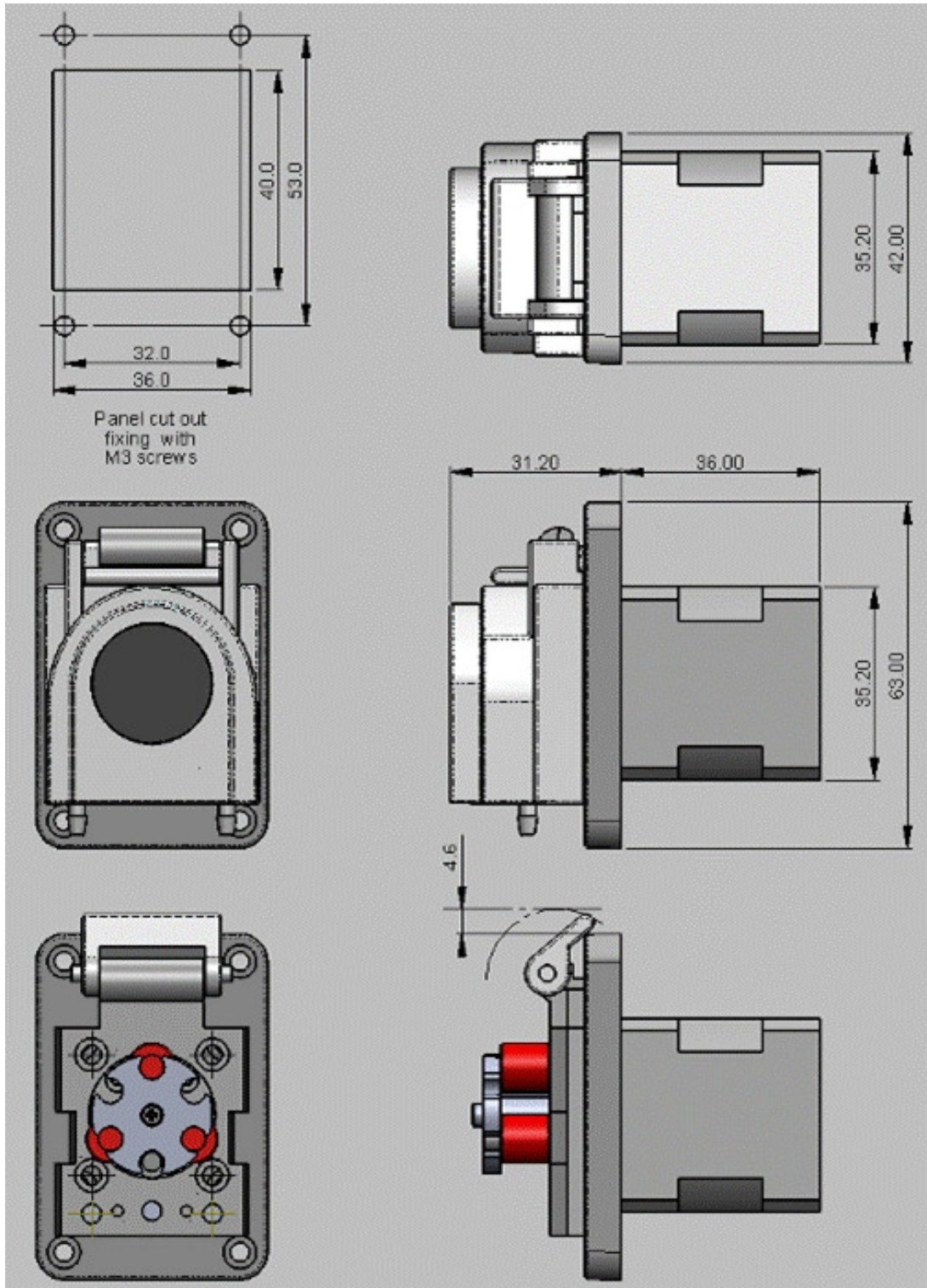
i.e. Speed 2600steps/sec = $2600/200*60*0.345=269.10\text{ml/min}$



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Specification Sheet 2 (last updated Jul 2011)



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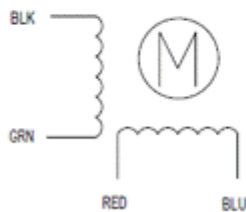
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Specification Sheet 3 (last updated Jul 2011)

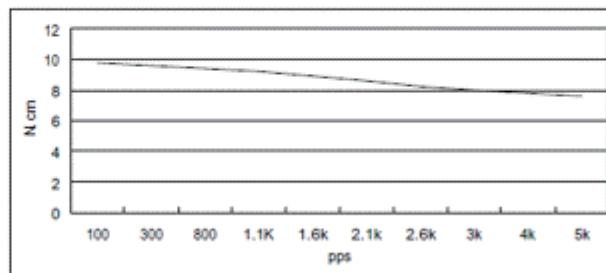
HIGH TORQUE HYBRID STEPPING MOTOR SPECIFICATIONS

General specifications		Electrical specifications	
Step Angle (°)	1.8	Rated Voltage (V)	2.7
Temperature Rise (°C)	80 Max (rated current, 2 phase on)	Rated Current (A)	1.0
Ambient temperature (°C)	-20~+50		± 2.7 (25°C)
Number of Phase	2		± 4.3
Insulation Resistance	100MΩ, Min (500VDC)	Holding Torque (Kg.cm)	1.4
Insulation Class	Class B	Detent Torque (g.cm)	100
Max.radial force (N)	28 (20mm from the flange)	Rotor Inertia (g.cm ²)	14
Max.axial force (N)	10	Weight (Kg)	0.18

● **Wiring Diagram:**



● **VOLTAGE: 24VDC, CONSTANT CURRENT: 1.0A, HALF STEP**



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