

400i Peristaltic Pump.



- Easy tube change.
- Can be run continuously
- Robust design.
- Quiet running.
- Self Priming to 5 metres.
- Available with a range of gearmotors for fixed & variable speed options
- Rollers fitted with ball bearings for long life.
- Smooth bore fittings available to minimize clogging.
- Economically priced.

The 400i series peristaltic pumps has been designed to offer the user a quiet, rugged and reliable means of dosing a wide range of liquids at up to 10 Litres per minute. The 400i series peristaltic pumps offer have excellent suction performance, even priming from dry. Peristaltic pumps offer a good level of accuracy and repeatability and as only the tube contacts the pump media, they are corrosion resistant, easy to clean and inexpensive to maintain. The 400i has a simple lift off cover to facilitate easy tube change. The 400i is available with a choice of tube size & material (see below).

400i pump fitted with 10mm I.D tube is 20ml per revolution
400i pump fitted with 13mm I.D tube is 37ml per revolution.

Materials of Construction:-

Pump body – Aluminium (anodised)
Pump backplate – Stainless Steel
Roller assembly bracket – Aluminium (anodised)
Rollers – Acetal – with sealed ball bearings fitted
Roller Spindles – Stainless Steel
Inlet/Outlet barbed connectors – Polypropylene – to suit 12.5" flexible tube – Smooth bore fitting available on request.
Pump mounting bracket (L shaped) – Stainless Steel
Tube – Choice of Silicone (peroxide cured) or Santoprene (Norprene A60F) – other options available on request.

Order information:

For example: **401i-IND-F-050-230-130**. Is a 400i fixed speed pump with a 50 RPM 230v induction gearmotor, fitted with 13mm Santoprene tubing.

1st part refer to pump/tubing & motor:

400i: Silicone tubing.

401i: Santoprene tubing.

IND F: Fixed speed induction motor.

IND V: Variable speed induction motor.

2nd part relates to RPM:

30, 50, 100 & 150* RPM - *Silicone tube only.

3rd part relates to voltage:

12VDC, 24VDC, 230VAC 1 50Hz, 230VAC 3 50Hz & 400VAC 3 50Hz

4th part relates to tube I.D:

100: 10mm ID x 3.2 wall

130: 13mm ID x 3.2 wall.

See selection guide on next sheet

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Selection Guide - Silicone

Model Number	RPM	Tube type	Tube I.D	Flow per revolution	Supply	Current (Amps)	Flow per minute (ml/min)	Flow per hour (L/hr)	Recommended maximum pressure (Metres)
400i-120-012-100	120	Silicone	10mm	20 ml per revolution.	12VDC	2.5	2400	144	15
400i-120-012-130	120	Silicone	13mm	37 ml per revolution	12VDC	2.5	4440	266	10
400i-240-024-100	240	Silicone	10mm	20 ml per revolution	24VDC	2.5	4800	288	15
400i-240-024-130	240	Silicone	13mm	37 ml per revolution	24VDC	2.5	8880	532	10
400i-030-230-100	30	Silicone	10mm	20 ml per revolution.	230VAC	1	600	36	15
400i-030-230-130	30	Silicone	13mm	37 ml per revolution	230VAC	1	1110	66.6	10
400i-IND-F-050-230-100	50	Silicone	10mm	20 ml per revolution.	230VAC	1	1000	60	15
400i-IND-F-050-230-130	50	Silicone	13mm	37 ml per revolution	230VAC	1	1850	111	10
400i-IND-F-100-230-100	100	Silicone	10mm	20 ml per revolution.	230VAC	1	2000	120	15
400i-IND-F-100-230-130	100	Silicone	13mm	37 ml per revolution	230VAC	1	3700	222	10
400i-IND-F-150-230-100	150	Silicone	10mm	20 ml per revolution.	230VAC	1	3000	180	15
400i-IND-F-150-230-130	150	Silicone	13mm	37 ml per revolution	230VAC	1	5550	333	10
400i-IND-V-050-230-100	50	Silicone	10mm	20 ml per revolution.	230VAC	1	1000 Max	60 Max	15
400i-IND-V-050-230-130	50	Silicone	13mm	37 ml per revolution	230VAC	1	1850 Max	111 Max	10
400i-IND-V-100-230-100	100	Silicone	10mm	20 ml per revolution.	230VAC	1	2000 Max	120 Max	15
400i-IND-V-100-230-130	100	Silicone	13mm	37 ml per revolution	230VAC	1	3700 Max	222 Max	10
400i-IND-V-150-230-100	150	Silicone	10mm	20 ml per revolution.	230VAC	1	3000 Max	180 Max	15
400i-IND-V-150-230-130	150	Silicone	13mm	37 ml per revolution	230VAC	1	5550 Max	333 Max	10

Selection Guide - Santoprene

Model Number	RPM	Tube type	Tube I.D	Flow per revolution	Supply	Current (Amps)	Flow per minute (ml/min)	Flow per hour (L/hr)	Recommended maximum pressure (Metres)
401i-120-012-100	120	Norprene A60F	10mm	20 ml per revolution.	12VDC	2.5	2400	144	15
401i-120-012-130	120	Norprene A60F	13mm	37 ml per revolution	12VDC	2.5	4440	266	10
401i-240-024-100	240	Norprene A60F	10mm	20 ml per revolution	24VDC	2.5	4800	288	15
401i-240-024-130	240	Norprene A60F	13mm	37 ml per revolution	24VDC	2.5	8880	532	10
401i-030-230-100	30	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	600	36	15
401i-030-230-130	30	Norprene A60F	13mm	37 ml per revolution	230VAC	1	1110	66.6	10
401i-IND-F-050-230-100	50	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	1000	60	15
401i-IND-F-050-230-130	50	Norprene A60F	13mm	37 ml per revolution	230VAC	1	1850	111	10
401i-IND-F-100-230-100	100	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	2000	120	15
401i-IND-F-100-230-130	100	Norprene A60F	13mm	37 ml per revolution	230VAC	1	3700	222	10
401i-IND-V-050-230-100	50	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	1000 Max	60 Max	15
401i-IND-V-050-230-130	50	Norprene	13mm	37 ml per revolution	230VAC	1	1850	111 Max	10

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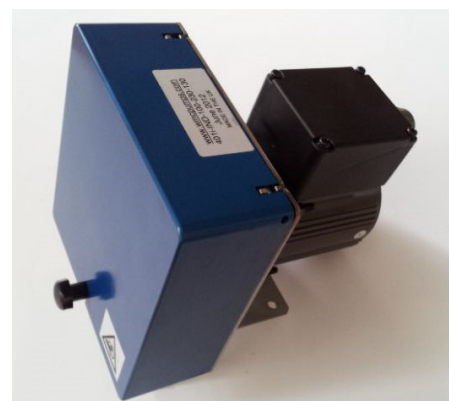
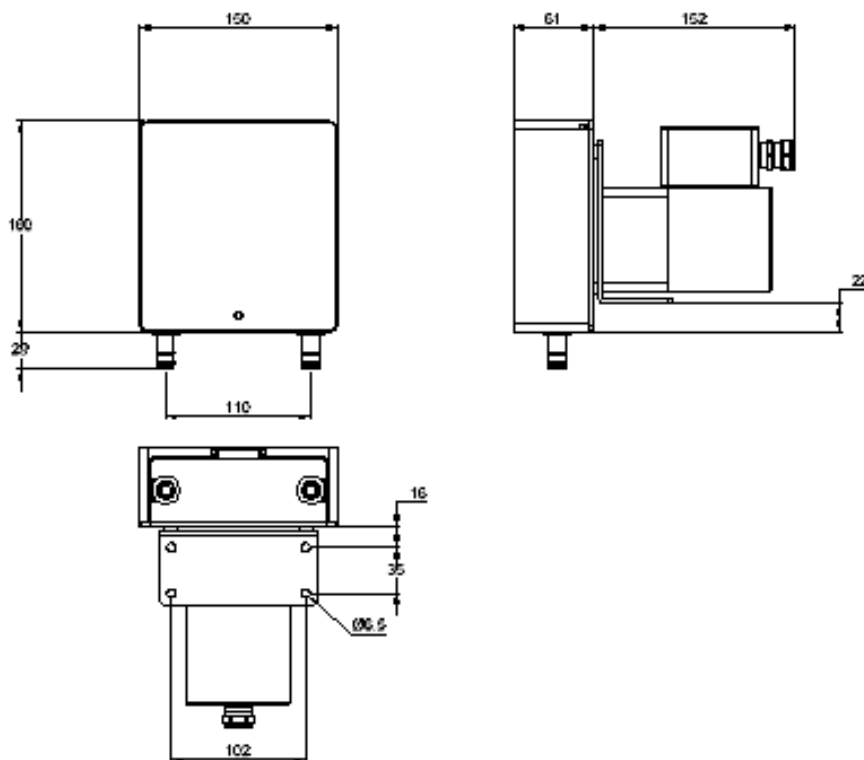
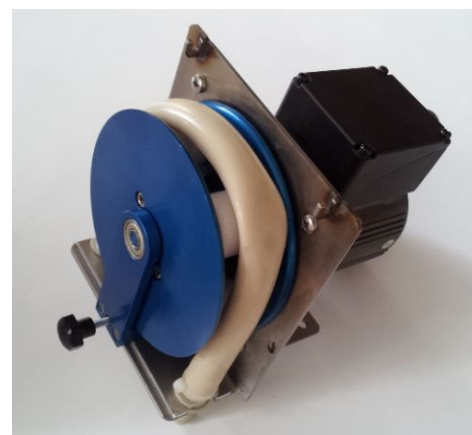
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Model Number	RPM	Tube type	Tube I.D	Flow per revolution	Supply	Current (Amps)	Flow per minute (ml/min)	Flow per hour (L/hr)	Recommended maximum pressure (Metres)
401i-IND-V-100-230-100	100	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	2000 Max	120 Max	15
401i-IND-V-100-230-130	100	Norprene A60F	13mm	37 ml per revolution	230VAC	1	3700 Max	222 Max	10
401i-IND-V-150-230-100	150	Norprene A60F	10mm	20 ml per revolution.	230VAC	1	3000 Max	180 Max	15
401i-IND-V-150-230-130	150	Norprene A60F	13mm	37 ml per revolution	230VAC	1	5550 Max	333 Max	10

Further information:

Williamson pumps offers an optional, extra cost, larger internal diameter smooth bore stainless steel spigot available to use for the 400i series pumps to further enhance flow rates and offer an alternative spigot material where the existing material is un-suitable. The O.D of the external spigot suits 19mm ID tube. To order pumps with smooth bore stainless steel spigot simply add "SB" to the end of the pump model number, eg: **401i IND F-050-230-130-SB** which denotes a 400i induction series fixed speed pump fitted with 13mm I.D Santoprene tubing fitted with smooth bore spigots on a 50 RPM 230v induction motor. Smooth bore spigots can give a significant increase in flow in comparison to flow rates for the standard spigots.

Dimensions (Induction motor driven models):



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