



## 400F/L2 precision instrument quality two channel pump

### Technical information and features

- Accepts tubing elements in six standard sizes
- Spring loaded fully adjustable track for adaptability to various pressure conditions and maximising tube life
- Wide range of gear motors available
- Extremely precise in flow control in a flexible design
- Flow rates up to 600 ml/min
- Virtually pulse free when operated as one channel pump



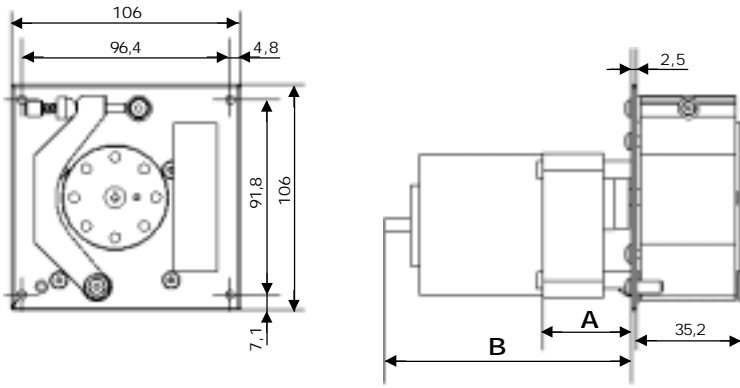
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### Flow rate ranges (ml/min)

Speed rpm	Tube bore and flow rates (ml/min)					
	0,8 mm	1,6 mm	2,4 mm	3,2 mm	4,0 mm	4,8 mm
12	0,66	2,6	5,9	10	16	22
25	1,38	5,5	12	21	33	46
30	1,65	6,6	15	26	39	55
60	3,3	13	29	51	79	110
100	5,5	22	49	85	131	184
200	11	44	98	170	262	367
350	19	77	172	298	459	642

### 400F/L

*If you don't find exactly what you are looking for in this data sheet a customised product could be the solution.*  
 These pumps could be supplied with alternative drives and gear ratios, with a tube holder for continuous tubing and two, four or six channels, as a low pulsating pump with one, two or three channels, in alternative materials, fitted on a customised mounting panel and more.



Motor type:	Standard DC 30W	Standard DC 5W	Brushless DC 35W
Dimension A	L=41,3mm X Ø68,0mm	L=41,3mm X Ø68,0mm	L=41,3mm X Ø68,0mm
Dimension B	L=115,2mm* X Ø68,0mm	L=93,4mm* X Ø68,0mm	L=103,4mm* X Ø68,0mm

\* = maximum length behind mounting plate

Product codes			
Motor type	Voltage	Speed rpm	Product code
Standard DC 30W	12VDC	200rpm	040.MS1L.E2S
Standard DC 30W	24-30VDC	200rpm	040.LS1L.E2S
Standard DC 30W	12VDC	100rpm	040.MP1L.E2S
Standard DC 30W	24-30VDC	100rpm	040.LP1L.E2S
Standard DC 5W	12-15VDC	60rpm	040.CM1L.E2S
Standard DC 5W	24-30VDC	60rpm	040.EM1L.E2S
Standard DC 5W	12-15VDC	25rpm	040.CC1L.E2S
Standard DC 5W	24-30VDC	25rpm	040.EC1L.E2S
Standard DC 5W	12-15VDC	12rpm	040.C81L.E2S
Standard DC 5W	24-30VDC	12rpm	040.E81L.E2S
Brushless DC 35W	24VDC	350rpm	040.NU1L.E2S
Brushless DC 35W	24VDC	100rpm	040.NP1L.E2S
Brushless DC 35W	24VDC	30rpm	040.NE1L.E2S

#### Motor descriptions

The **standard DC 30W** motor is our most powerful instrument quality motor. This motor features low electrical and audible noise, long brush life and excellent speed regulation with our controllers (optional).

The **standard DC 5W** motor is our most compact instrument quality motor. This motor features low electrical and audible noise, long brush life and excellent speed regulation with our controllers (optional).

The **brushless DC 35W** motor is powerful with built in controller. No carbon brushes yields an extremely long life with no maintenance required.

#### 400F/L2

##### Materials of construction

Rotor	<i>Aluminium</i>
Rollers	<i>Acid resistant stainless steel</i>
Roller bearings	<i>Carbon steel</i>
Track	<i>Aluminium</i>
Tube holder	<i>Acetal (Black)</i>
Shafts	<i>Acid resistant stainless steel</i>
Mounting panel	<i>Anodised aluminium</i>
Springs	<i>Acid resistant stainless steel</i>
Screws	<i>Acid resistant stainless steel</i>

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