tier1

400F/D2
compact instrument quality two channel pump

Technical information and features

- Spring loaded fully adjustable track for adaptability to various pressure conditions and maximising tube life
- Tube elements for easy tube change and optimal tube performance
- Wide range of gear motors available
- Extremely compact design
- Flow rates up to 82 ml/min

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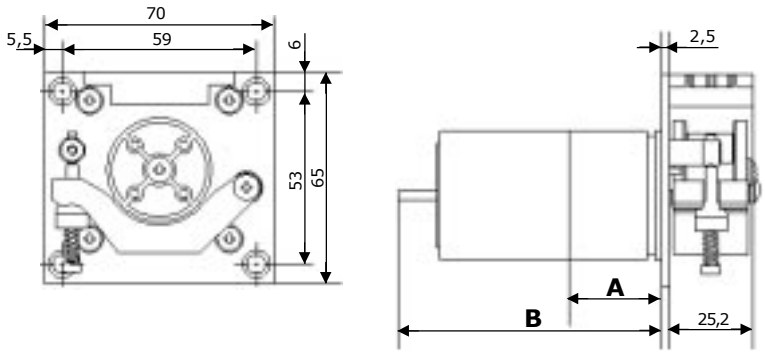
Flow rate ranges (ml/min)

	Tube bore and flow rates (ml/min)			
Speed rpm	0,5 mm	1,0 mm	2,0 mm	3,0 mm
4	0,05	0,20	0,72	1,3
5	0,07	0,25	0,90	1,7
10	0,13	0,50	1,8	3,3
12	0,16	0,60	2,2	4,0
15	0,20	0,75	2,7	5,0
20	0,26	1,0	3,6	6,6
25	0,33	1,3	4,5	8,3
40	0,52	2,0	7,2	4,0
50	0,65	2,5	9,0	16
75	1,0	3,8	13	25
100	1,3	5,0	18	33
130	1,7	6,5	23	43
200	2,6	10	36	66
250	3,3	12	45	82

400F/D

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, in a four or eight channel version, for alternative tube sizes, in alternative colours or materials, fitted on a customised mounting panel and more.



Motor type:	Standard DC 5W	Economy DC 5W	Brushless DC 5W
Dimension **A**	L=26,5mm X Ø39,6mm	L=26,5mm X Ø39,6mm	L=26,5mm X Ø39,6mm
Dimension **B**	L=87,3mm* X Ø39,6mm	L=81,0mm* X Ø39,6mm	L=77,0mm* X Ø39,6mm

*= maximum length behind mounting plate

Syncronous AC 2W
Length over all (**A**+**B**)=44,4mm Ø over all (**A**+**B**)=79,2mm

Product codes

Motor type	Voltage	Speed rpm	Product code
Standard DC 5W	12-15VDC	200rpm	040.DS1D.N2C
Standard DC 5W	24-30VDC	200rpm	040.ES1D.N2C
Standard DC 5W	12-15VDC	100rpm	040.DP1D.N2C
Standard DC 5W	24-30VDC	100rpm	040.EP1D.N2C
Standard DC 5W	12-15VDC	40rpm	040.DH1D.N2C
Standard DC 5W	24-30VDC	40rpm	040.EH1D.N2C
Standard DC 5W	12-15VDC	12rpm	040.D81D.N2C
Standard DC 5W	24-30VDC	12rpm	040.E81D.N2C
Economy DC 5W	12VDC	200rpm	040.AS1D.N2C
Economy DC 5W	24VDC	200rpm	040.BS1D.N2C
Economy DC 5W	12VDC	75rpm	040.AN1D.N2C
Economy DC 5W	24VDC	75rpm	040.BN1D.N2C
Economy DC 5W	12VDC	25rpm	040.AC1D.N2C
Economy DC 5W	24VDC	25rpm	040.BC1D.N2C
Brushless DC 5W	24VDC	250rpm	040.FT1D.N2C
Brushless DC 5W	24VDC	130rpm	040.FQ1D.N2C
Brushless DC 5W	24VDC	50rpm	040.FK1D.N2C
Brushless DC 5W	24VDC	15rpm	040.F91D.N2C
Syncronous AC 2W	110VAC (60Hz)	25rpm	040.HC1D.N2C
Syncronous AC 2W	220VAC (50Hz)	20rpm	040.JA1D.N2C
Syncronous AC 2W	110VAC (60Hz)	12rpm	040.H81D.N2C
Syncronous AC 2W	220VAC (50Hz)	10rpm	040.J71D.N2C
Syncronous AC 2W	110VAC (60Hz)	5rpm	040.H41D.N2C
Syncronous AC 2W	220VAC (50Hz)	4rpm	040.J31D.N2C

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Materials of construction

Rotor	*Acetal (Black)*
Rollers	*Acetal (Black)*
Track	*Acetal (Black)*
Tube holder	*Acetal (Black)*
Shafts	*Acid resistant stainless steel*
Mounting panel	*Black anodised aluminium*
Springs	*Acid resistant stainless steel*
Screws	*Acid resistant stainless steel*

Motor descriptions

The **standard DC 5W** motor is our most compact instrument quality motor. This motor features silent operation, long brush life and excellent speed regulation with our controllers (optional).
The **economy DC 5W** motor offers small size and high value for money. It is primarily intended for intermittent duty applications.
The **brushless DC 5W** motor is a 1 phase 2 core reluctance motor with a 4 pole ferrite magnet. Hall sensors and commutation electronics are integrated. No carbon brushes yields an extremely long life with no maintenance required. Speed is regulated by varying the 24 VDC supply.
The **synchronous AC 2W** motor runs on mains voltage. The motor speed is based on supply frequency giving a very accurate and reproducible motor speed.

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