

400F/DM2 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
- Accepts standard three bridge colour coded auto-analysis tube elements available in 19 sizes
- Wide range of gear motors available
- Extremely compact design
- Flow rates up to 36 ml/min



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Flow rate ranges (ml/min)

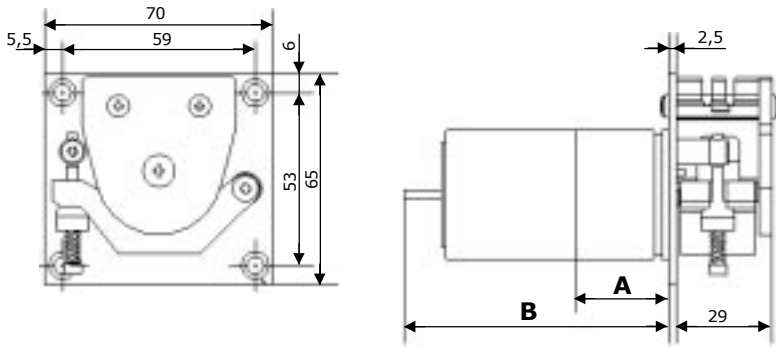
Speed rpm	Tube bore and flow rates (ml/min)									
	Orange/black 0,13 mm	Orange/red 0,19 mm	Orange/blue 0,25 mm	Orange/green 0,38 mm	Orange/yellow 0,50 mm	Orange/white 0,63 mm	Black/black 0,76 mm	Orange/orange 0,88 mm	White/white 1,02 mm	Red/red 1,14 mm
4	0,004	0,008	0,016	0,032	0,06	0,09	0,12	0,17	0,22	0,28
5	0,005	0,010	0,020	0,040	0,07	0,11	0,16	0,22	0,28	0,35
10	0,010	0,020	0,040	0,08	0,14	0,22	0,31	0,43	0,55	0,70
12	0,012	0,024	0,048	0,10	0,17	0,26	0,37	0,52	0,66	0,84
15	0,015	0,030	0,06	0,12	0,21	0,33	0,47	0,65	0,83	1,1
20	0,020	0,040	0,08	0,16	0,28	0,44	0,62	0,86	1,1	1,4
25	0,025	0,050	0,10	0,20	0,35	0,55	0,78	1,1	1,4	1,8
40	0,040	0,08	0,16	0,32	0,56	0,88	1,2	1,7	2,2	2,8
50	0,050	0,10	0,20	0,40	0,70	1,1	1,6	2,2	2,8	3,5
75	0,08	0,15	0,30	0,60	1,1	1,7	2,3	3,2	4,1	5,3
100	0,10	0,20	0,40	0,80	1,4	2,2	3,1	4,3	5,5	7,0

	Grey/grey 1,29 mm	Yellow/yellow 1,42 mm	Yellow/blue 1,52 mm	Blue/blue 1,65 mm	Green/green 1,85 mm	Purple/purple 2,05 mm	Purple/black 2,29 mm	Purple/orange 2,54 mm	Purple/White 2,79 mm
4	0,36	0,44	0,48	0,56	0,72	0,84	1,04	1,24	1,44
5	0,45	0,55	0,60	0,70	0,90	1,05	1,30	1,55	1,80
10	0,89	1,10	1,20	1,40	1,80	2,1	2,6	3,1	3,6
12	1,07	1,32	1,44	1,68	2,2	2,5	3,1	3,7	4,3
15	1,34	1,65	1,80	2,1	2,7	3,2	3,9	4,7	5,4
20	1,78	2,2	2,4	2,8	3,6	4,2	5,2	6,2	7,2
25	2,2	2,8	3,0	3,5	4,5	5,3	6,5	7,8	9,0
40	3,6	4,4	4,8	5,6	7,2	8,4	10	12	14
50	4,5	5,5	6,0	7,0	9,0	11	13	16	18
75	6,7	8,3	9,0	11	14	16	20	23	27
100	8,9	11	12	14	18	21	26	31	36

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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

Synchronous AC 2W
Length over all (A+B)=44,4mm Ø over all (A+B)=78,6mm

Product codes			
Motor type	Voltage	Speed rpm	Product code
Standard DC 5W	12-15VDC	100rpm	040.DP1D.M2M
Standard DC 5W	24-30VDC	100rpm	040.EP1D.M2M
Standard DC 5W	12-15VDC	40rpm	040.DH1D.M2M
Standard DC 5W	24-30VDC	40rpm	040.EH1D.M2M
Standard DC 5W	12-15VDC	12rpm	040.D81D.M2M
Standard DC 5W	24-30VDC	12rpm	040.E81D.M2M
Economy DC 5W	12VDC	75rpm	040.AN1D.M2M
Economy DC 5W	24VDC	75rpm	040.BN1D.M2M
Economy DC 5W	12VDC	25rpm	040.AC1D.M2M
Economy DC 5W	24VDC	25rpm	040.BC1D.M2M
Brushless DC 5W	24VDC	50rpm	040.FK1D.M2M
Brushless DC 5W	24VDC	15rpm	040.F91D.M2M
Synchronous AC 2W	110VAC (60Hz)	25rpm	040.HC1D.M2M
Synchronous AC 2W	220VAC (50Hz)	20rpm	040.JA1D.M2M
Synchronous AC 2W	110VAC (60Hz)	12rpm	040.H81D.M2M
Synchronous AC 2W	220VAC (50Hz)	10rpm	040.J71D.M2M
Synchronous AC 2W	110VAC (60Hz)	5rpm	040.H41D.M2M
Synchronous AC 2W	220VAC (50Hz)	4rpm	040.J31D.M2M

Motor descriptions

The standard DC 5W motor is our most compact instrument quality motor. This motor 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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Materials of construction

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

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