

400F/GM precision high flow manifold tubing pump



400F/GM4

The 400F/GM is a precision, instrument quality peristaltic pump for low flow rates. The 400F/GM pumps offer a higher flow than the 400F/VM series, but have fewer rollers (4), and channels cannot be individually adjusted. The pumps have a spring-loaded track, which gives superior tube life and flow accuracy. The tracks are machined to precision tolerances, and rollers are stainless steel with ball bearings. The pump accepts standard manifold tube elements, with two color-coded stops. The tubing is available in 20 bore sizes, allowing the user to precisely match the pump to the required flow. See page 21 for additional options.

Ordering information

Standard 5 Watt or *30 Watt motor	12rpm	25rpm	60rpm	*100 rpm
400FDC/GM4 12V Four Channel	<i>040.C81G.M4S</i>	<i>040.CC1G.M4S</i>	<i>040.CM1G.M4S</i>	<i>040.MP1G.M4S</i>
400FDC/GM4 24V Four Channel	<i>040.E81G.M4S</i>	<i>040.EC1G.M4S</i>	<i>040.EM1G.M4S</i>	<i>040.LP1G.M4S</i>
Brushless DC 35 Watt	30rpm	100rpm		
400FVDL/GM4 24V Four Channel	<i>040.NE1G.M4S</i>	<i>040.NP1G.M4S</i>		

See motor descriptions on page 46.

Flow rates

Color Bore	Orange/black 0.13mm	Orange/Red 0.19mm	Orange/Blue 0.25mm	Orange/Green 0.38mm	Orange/yellow 0.50mm
Flow ml/revolution	<i>0.001</i>	<i>0.003</i>	<i>0.005</i>	<i>0.012</i>	<i>0.022</i>
12 rpm	<i>0.012</i>	<i>0.036</i>	<i>0.060</i>	<i>0.14</i>	<i>0.26</i>
25 rpm	<i>0.025</i>	<i>0.075</i>	<i>0.13</i>	<i>0.30</i>	<i>0.55</i>
30 rpm	<i>0.030</i>	<i>0.090</i>	<i>0.15</i>	<i>0.36</i>	<i>0.66</i>
60 rpm	<i>0.060</i>	<i>0.180</i>	<i>0.30</i>	<i>0.72</i>	<i>1.32</i>
100 rpm	<i>0.10</i>	<i>0.30</i>	<i>0.50</i>	<i>1.20</i>	<i>2.20</i>
Color Bore	Orange/White 0.63mm	Black/Black 0.76mm	Orange/Orange 0.88mm	White/White 1.02mm	Red/Red 1.14mm
Flow ml/revolution	<i>0.034</i>	<i>0.049</i>	<i>0.066</i>	<i>0.086</i>	<i>0.11</i>
12 rpm	<i>0.41</i>	<i>0.59</i>	<i>0.79</i>	<i>1.03</i>	<i>1.32</i>
25 rpm	<i>0.85</i>	<i>1.23</i>	<i>1.65</i>	<i>2.15</i>	<i>2.75</i>
30 rpm	<i>1.02</i>	<i>1.47</i>	<i>1.98</i>	<i>2.58</i>	<i>3.30</i>
60 rpm	<i>2.04</i>	<i>2.94</i>	<i>3.96</i>	<i>5.16</i>	<i>6.60</i>
100 rpm	<i>3.40</i>	<i>4.90</i>	<i>6.60</i>	<i>8.60</i>	<i>11.00</i>
Color Bore	Grey/Grey 1.29mm	Yellow/Yellow 1.42mm	Yellow/Blue 1.52mm	Blue/Blue 1.65mm	Green/Green 1.85mm
Flow ml/revolution	<i>0.14</i>	<i>0.17</i>	<i>0.19</i>	<i>0.22</i>	<i>0.28</i>
12 rpm	<i>1.68</i>	<i>2.04</i>	<i>2.28</i>	<i>2.64</i>	<i>3.36</i>
25 rpm	<i>3.50</i>	<i>4.25</i>	<i>4.75</i>	<i>5.50</i>	<i>7.00</i>
30 rpm	<i>4.20</i>	<i>5.10</i>	<i>5.70</i>	<i>6.60</i>	<i>8.40</i>
60 rpm	<i>8.40</i>	<i>10.2</i>	<i>11.4</i>	<i>13.2</i>	<i>16.8</i>
100 rpm	<i>14.0</i>	<i>17.0</i>	<i>19.0</i>	<i>22.0</i>	<i>28.0</i>
Color Bore	Purple/Purple 2.05mm	Purple/Black 2.29mm	Purple/Orange 2.54mm	Purple/White 2.79mm	
Flow ml/revolution	<i>0.34</i>	<i>0.41</i>	<i>0.50</i>	<i>0.59</i>	
12 rpm	<i>4.08</i>	<i>4.92</i>	<i>6.00</i>	<i>7.08</i>	
25 rpm	<i>8.50</i>	<i>10.3</i>	<i>12.5</i>	<i>14.8</i>	
30 rpm	<i>10.2</i>	<i>12.3</i>	<i>15.0</i>	<i>17.7</i>	
60 rpm	<i>20.4</i>	<i>24.6</i>	<i>30.0</i>	<i>35.4</i>	
100 rpm	<i>34.0</i>	<i>41.0</i>	<i>50.0</i>	<i>59.0</i>	

For tube selections, see Table F on inside back cover.