



Technical Specification

Model No. : OEM-B01 (42-40motor)

OEM-B038(42-60 motor)

Pump head: Single/dual channel peristaltic pump

Motor type: Stepper motor

Motor speed: 0-300rpm

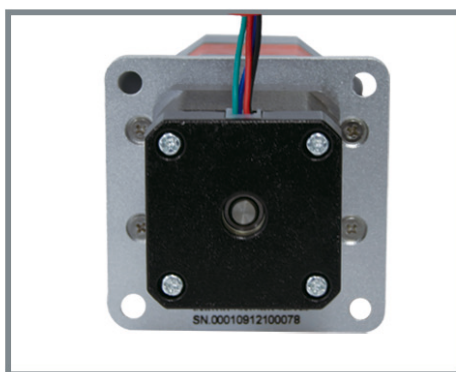
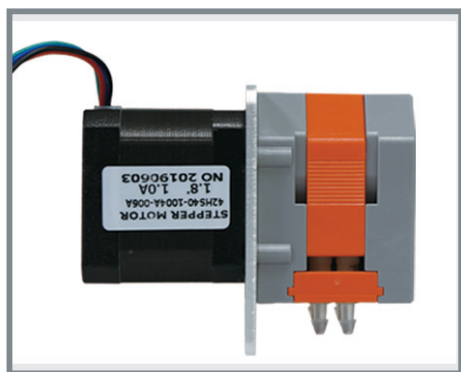
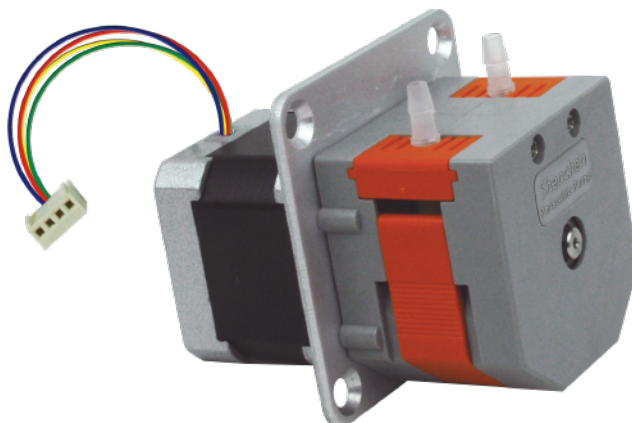
Pump head housing material: POM

Roller material: POM

Tube material: Silicone tube, Pharmed tube

Roller number: 4

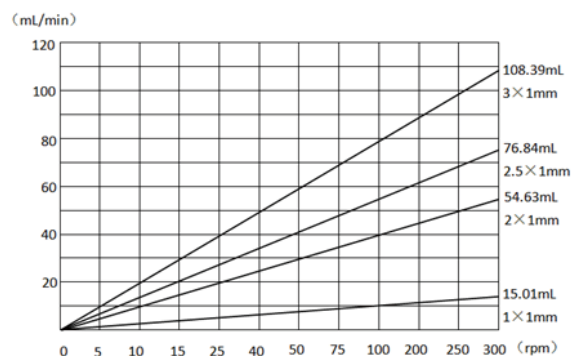
Motor life: > 10000hours



Flow Data

For dual channel pump head:

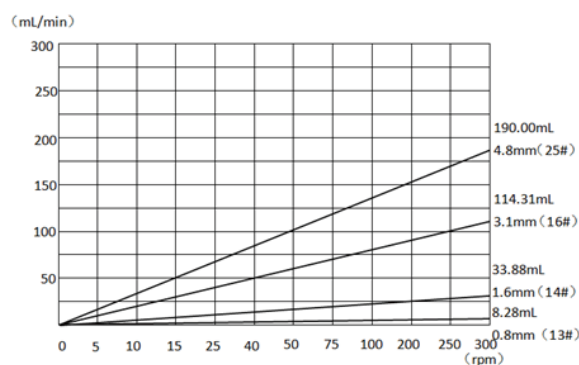
Motor Speed (rpm)	Dual Channel Flow Rate (mL/min) and Tubing (1 mm wall thickness)			
	ID 1mm	ID 2mm	ID 2.5mm	ID 3mm
5	0.25	0.90	1.28	1.78
10	0.49	1.84	2.59	3.52
15	0.74	2.76	3.85	5.30
25	1.25	4.57	6.43	8.80
40	2.00	7.31	10.25	14.02
50	2.52	9.14	12.78	17.47
75	3.76	13.64	19.04	26.12
100	5.03	18.17	25.42	35.34
200	10.12	36.45	51.27	71.44
250	12.63	45.75	64.34	88.35
300	15.01	54.63	76.84	108.39



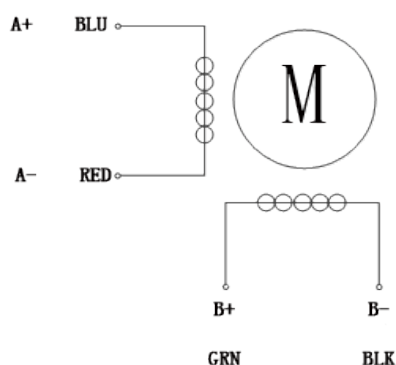


For single channel pump head:

MotorSpeed(rpm)	Single Channel Flow Rate (mL/min) and Tubing (1.6 mm wall thickness)			
	13# ID 0.8mm	14# ID 1.6mm	16# ID 3.1mm	25# ID 4.8mm
5	0.12	0.56	1.97	3.26
10	0.26	1.15	3.90	6.41
15	0.39	1.74	5.80	9.52
25	0.66	2.88	9.59	15.74
40	1.08	4.59	15.29	25.15
50	1.34	5.69	18.96	31.14
75	2.00	8.54	28.36	46.55
100	2.73	11.37	37.66	61.98
200	5.46	22.76	76.02	124.14
250	6.81	28.40	95.08	153.63
300	8.28	33.88	114.31	190.00



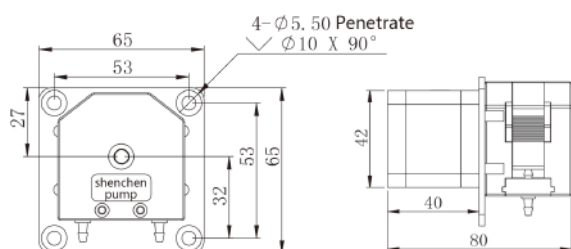
Motor Specification



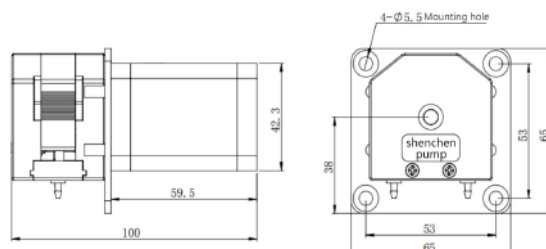
Step angle	1.8°
Phase	2
Phase current	1.0A
Phase voltage	OEM-B01: 2.2V OEM-B038: 3.6V
Speed range	0.1-300rpm
Condition temperature	0-40℃
Humidity	≤80%RH

Dimension Drawing (Unit:mm)

OEM-B01

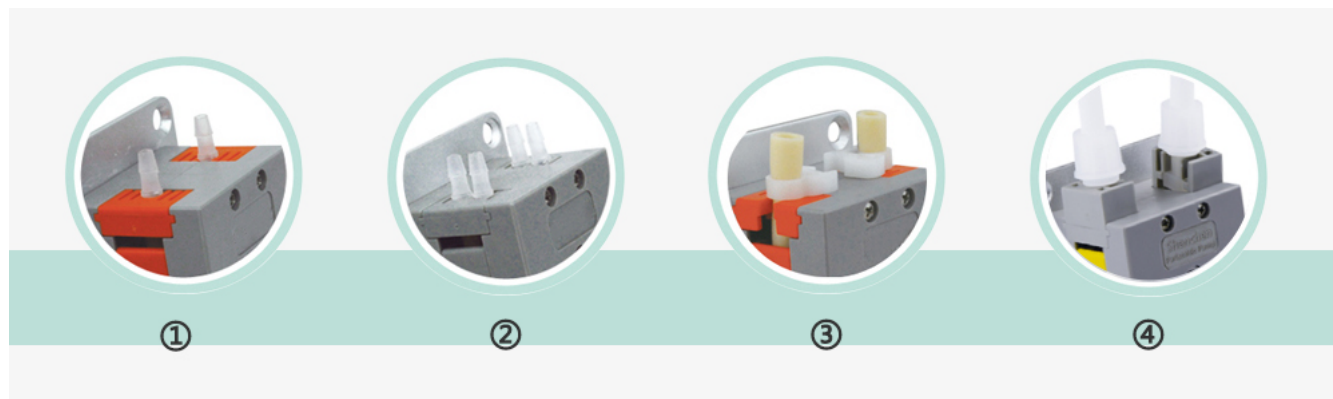


OEM-B038





Different Tubing Installation



Description	Model No.
Single channel with normal connector ①	OEM-B01,B038/Minipump01
Dual channel with normal connector ②	OEM-B01,B038/Minipump02
Without connector(only single channel) ③	OEM-B01,B038/Minipump01W
Connect to hard tube (only single channel) ④	OEM-B01,B038/Minipump01Y

Tubing Installation Procedure



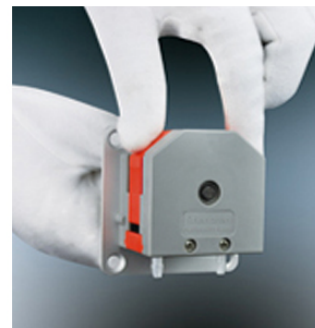
A. Make the two tubing clamps align the slide way of pump head two sides.



B. Ensure that the tubing is in the middle of rollers, and push the clamps into the pump head.



C. Make the compression block align the upper slide way of pump head.



D. Press the compression block into the pump head, and ensure it fixed.