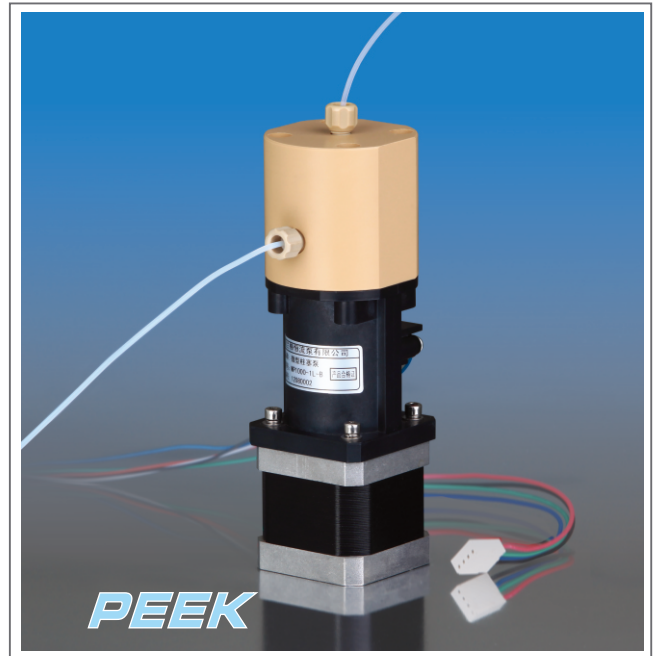


Micro Piston Pump

MP Series

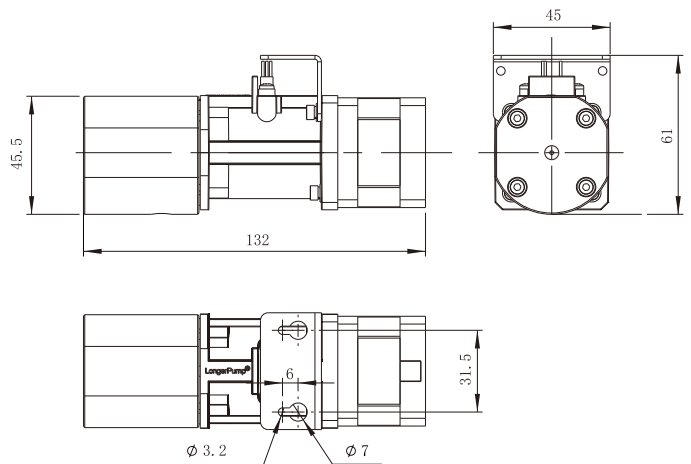


Pump Specification

Precision	Dispensing 100% of total volume: CV<0.1%
	Dispensing 10% of total volume: CV<0.5%
	Dispensing 1% of total volume: CV<2%
Accuracy	inaccuracy ≤ 0.5% (at full dispense)
Pump life	5 million cycles
System pressure	≤ 0.68Mpa (depending on model)
Full stroke	12.7mm
Resolution	2000 steps: 0.00635mm/step
	4000 steps: 0.003175mm/step
Pump speed	Pump volume ≤ 1mL: min. time for full stroke is 0.8s
	2.5mL pump volume: min. time for full stroke is 1s
	5mL pump volume: min. time for full stroke is 1.2s
Initial position detection	The initial position of the piston is detected by photoelectric sensor. Output low level voltage at initial position, output high level voltage at other position.
Dimension(L×W×H)	55×45×132(mm)
Relative humidity	20%-80%
Temperature	10°C-40°C
Weight	0.51kg

Mainly used in OEM application.

Use photoelectric sensor to detect initial position of the pump.
Piston control board KZQ1-MP (for 2000 steps) and KZQ2-MP (for 4000 steps) are available for RS485 communication control, or work with customer's specific drive.



Pump Volume	Resolution(ul/step)	
	20tpi lead screw for 2000 steps	40tpi lead screw for 4000 steps
25μL	0.0125	0.00625
50μL	0.025	0.0125
100μL	0.05	0.025
250μL	0.125	0.0625
500μL	0.25	0.125
1000μL	0.5	0.25
2500μL	1.25	0.625
5000μL	2.5	1.25

Micro Piston Pump Configuration

Pump Volume	25μL, 50μL, 100μL, 250μL, 500μL, 1000μL, 2500μL, 5000μL
Pump Head Material	PMMA, PEEK or PEI
Piston Material	Ceramic or PEEK
Seal material	UHMWPE
Port	1/4"-28UNF, 10-32UNF, M6
Lead Screw	20tpi(2000 steps) or 40tpi(4000 steps)
Encoder	Optional

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