

MP²

Micro Peristaltic Pumps

The ESI micro peristaltic pumps offer advantages over standard peristaltic pumps due to precision machining and a roller configuration that minimizes the gaps between rollers, resulting in more even pressure points along the pump tubing.

This pump offers less pulsation in sample delivery, smaller relative standard deviations in signal, and consequently improved detection limits.

BENEFITS:

- Pump Design Extends Tubing Lifetime
- Drop in replacement hardware and software
- Precision
- Low Pulsation
- Chemically Resistant
 - Ceramic pins and PTFE-coated metal components are resistant to acids and organic solvents
- Optimized for Low Flow Rates
 - Accurate pumping across a wide range of rates from low 0.2µL/min to 10 mL/min

SPECIFICATIONS:

Power:

18 watts

Channels:

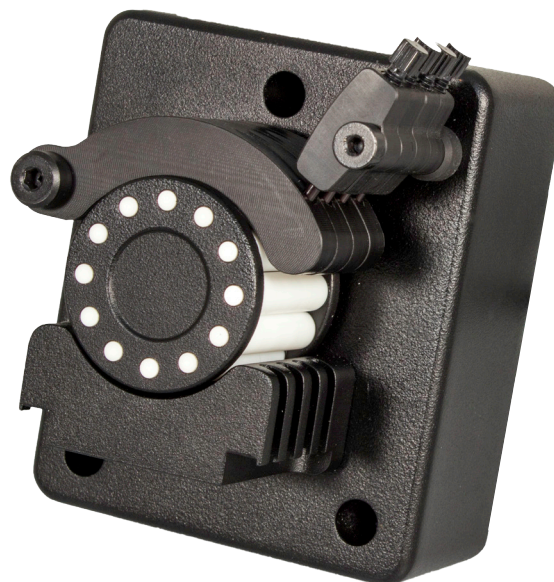
1-8 Channels

Flow Rates:

0.2 µL/min to 10 mL/min per channel

Tubing:

Tubing available from 0.13 mm i.d. to 3.17 mm i.d.



Integrated MP² micro peristaltic pump for Thermo Scientific iCAP Q ICPMS



Integrated MP² micro peristaltic pump installed on the Thermo Scientific iCAP Q ICPMS

Description	Part Number
4-channel MP ² Integrated micro peristaltic pump for Thermo Scientific iCAP Q ICPMS	MP2-4-73

Tubing

Our products are used for a wide range of applications for fairly high concentrations of mineral acids, organic solvents and biological fluids. The pump tubing is the limiting factor. We currently offer PVC, Solvent Resistant (e.g. kerosene/oil applications) and Santoprene.

Pumping viscous fluids is limited by the elasticity of the pump tubing and tubing dimensions leading into and out of the pump. We also have a syringe pump for pumping extremely viscous materials.

MP² Pump Tubing Sizes

i.d.	Stop Colors		Calibration Slope ($\mu\text{L}/\text{min}$ per RPM)	Non-Flared				Flared*	
				PVC 2-stop	Santoprene 2-stop	Solva 2-stop	Viton 2-stop	PVC 2-stop	Solva 2-stop
0.13 mm	Orange	Black	0.6	MPP-013-PVC				MPP-013-F-PVC	MPP-013-F-S
0.19 mm	Orange	Red	1.3	MPP-019-PVC				MPP-019-F-PVC	MPP-019-F-S
0.27 mm	Orange	Blue	2.7	MPP-027-PVC				MPP-027-F-PVC	MPP-027-F-S
0.38 mm	Orange	Green	4.7	MPP-038-PVC	MPP-038-PHR			MPP-038-F-PVC	MPP-038-F-S
0.44 mm	Green	Yellow	7.6	MPP-044-PVC				MPP-044-F-PVC	MPP-044-F-S
0.51 mm	Orange	Yellow	9.5	MPP-051-PVC			MPP-051-V	MPP-051-F-PVC	MPP-051-F-S
0.57 mm	White	Yellow	11	MPP-057-PVC				MPP-057-F-PVC	MPP-057-F-S
0.64 mm	Orange	White	14	MPP-064-PVC			MPP-064-V	MPP-064-F-PVC	MPP-064-F-S
0.76 mm	Black	Black	19	MPP-076-PVC	MPP-076-PHR	MPP-076-S	MPP-076-V	MPP-076-F-PVC	MPP-076-F-S
0.89 mm	Orange	Orange	24	MPP-089-PVC		MPP-089-S	MPP-089-V	MPP-089-F-PVC	MPP-089-F-S
0.95 mm	White	Black	28	MPP-095-PVC		MPP-095-S		MPP-095-F-PVC	MPP-095-F-S
1.02 mm	White	White	31	MPP-102-PVC		MPP-102-S	MPP-102-V	MPP-102-F-PVC	MPP-102-F-S
1.09 mm	White	Red	33	MPP-109-PVC		MPP-109-S		MPP-109-F-PVC	MPP-109-F-S
1.14 mm	Red	Red	35	MPP-114-PVC		MPP-114-S	MPP-114-V	MPP-114-F-PVC	
1.22 mm	Red	Grey	46	MPP-122-PVC		MPP-122-S			
1.30 mm	Grey	Grey	47	MPP-130-PVC	MPP-130-PHR	MPP-130-S	MPP-130-V		
1.42 mm	Yellow	Yellow	50	MPP-142-PVC		MPP-142-S	MPP-142-V		
1.52 mm	Yellow	Blue	51	MPP-152-PVC	MPP-152-PHR	MPP-152-S	MPP-152-V		
1.65 mm	Blue	Blue	55	MPP-165-PVC		MPP-165-S	MPP-165-V		
1.75 mm	Blue	Green	58	MPP-175-PVC		MPP-175-S			
1.85 mm	Green	Green	61	MPP-185-PVC		MPP-185-S	MPP-185-V		
2.06 mm	Purple	Purple	64	MPP-206-PVC		MPP-206-S	MPP-206-V		
2.29 mm	Purple	Black	65	MPP-220-PVC		MPP-220-S	MPP-220-V		
2.54 mm	Purple	Orange	67	MPP-254-PVC		MPP-254-S	MPP-254-V		
2.79 mm	Purple	White	69	MPP-279-PVC		MPP-279-S	MPP-279-V		
3.17 mm	Black	White	70	MPP-317-PVC	MPP-317-PHR	MPP-317-S			
Bridge Length				72 mm	72 mm	72 mm	65 mm	72 mm	72 mm

*For easy insertion of capillaries **MPP-idd** **idd = internal diameter**

