

Pump Your Needs.



**NEW!**



(Actual Size)  
\*Colors and sizes of actual products may differ slightly due to printing condition.

**The long-awaited, ultra-compact full-spec model.**

# WPM

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## ULTRA COMPACT PERISTALTIC PUMP

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WPM, an ultra-compact peristaltic pump, is created to meet global needs, boasts an extremely high level of performance. The use of the latest technologies makes possible an ultra-compact size of 38 mm diameter, and new materials are used to realize the highest level of durability (compared to our ordinary products).

Capable to be applied for various use in industrial fields, such as industrial analysis, medical analysis, printer applications, as well as in consumer applications. The latest model combines high quality, high performance, easy maintenance, an excellent cost-performance and an ultra-compact size with a full-spec design to meet a wide variety of needs.

# Ultra-compact body with the latest technology and high-performance



## 38 mm diameter ultra-compact full-spec model

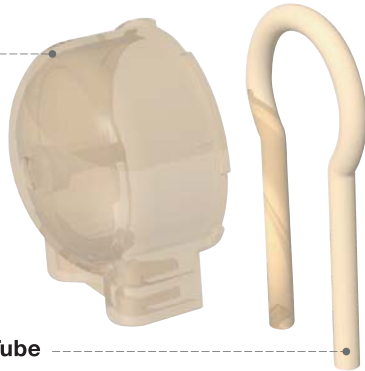
To meet worldwide needs, all parts have been newly developed from their raw materials. By adopting many new mechanisms and utilizing high-precision molding technology to realize multi-functional components, an ultra-compact body has been realized that achieves high performance, high stability and space savings.

### Cassette

The highly-transparent clear body enables the pump motor status to be checked at a glance. Polysulfone, is used as the cassette material. The highest levels of weather and chemical resistance are realized.

### Pump Tube

A wide range of tubes are available, from original tubes developed in-house to general-purpose tubes. Choose the materials and size according to application.



### Base

### Gear Motor

### Tube holder

Can easily be removed. Prevents retraction of the tube during rotation.

### Rotor Assembly

To further improve durability and quietness, a highly stable three-roller method is used. Ensuring flow rates of up to 90 mL per minute and realizing excellent durability in an assembly of this size.

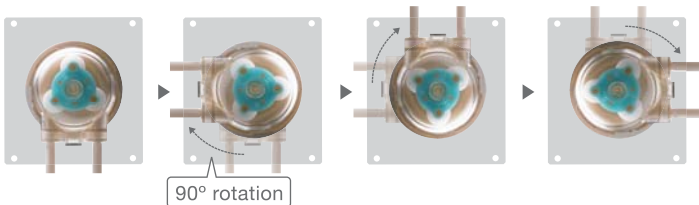
UL/CE/standards obtained, RoHS compatible

## Free mounting configuration

A "Free mounting mechanism", which applies a bayonet configuration that is also used in mounting and removing camera lenses, is used in the base. As the cassettes can be mounted and removed manually without using tools, maintenance such as tube replacement can also be performed speedily.



Even after mounting, the cassette alone can be adjusted freely through a 90° angle, increasing design freedom.



## Super Engineering Plastics (WPM1 model)

Super engineering plastics, having excellent corrosion resistance, are used for the main tube parts and enable the pumps to be used with strong acids, strong alkalis, and chemical solutions that erode general-purpose plastics. The heat resistance is also excellent, use in various environments can be supported.

## All new gear mechanism

WELCO has developed a special dedicated gear mechanism that enables the simultaneous realization of both low-noise (approximately 52dB :JIS B 8310:1985) and high durability. A smaller size is made possible by integrating the gear motor with the base body.

## Motor variation

The lineup also includes various types of motor for mounting, such as 12, and 24VDC low-speed and high-speed motors, stepper motors, and brushless motors, etc.



DC brush motor

motor Compact brush motor

Brushless motor

Stepping motor

## Compatible with autoclave sterilization (WPM2 model)

Special order item

All parts of the WPM2 pump cassette are made of super engineering plastic that has excellent heat resistance. Autoclave sterilization can now be performed on industrial-use compact-size peristaltic pumps. Pump operation supports liquid solution temperatures of up to 80°C.



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