

The New MPA Peristaltic Pump

Reliability, hygiene,
and control for
modern
pharmaceutical
processes

MPA New Peristaltic Pump

Fluid management Requirements



Pharma and biotech processes require:

- high product safety
- sterility of the fluid path
- process repeatability
- operational flexibility
- reduced changeover time
- compatibility with single-use systems

Pumping technology is a **key process decision**



MPA New Peristaltic Pump

When to choose a peristaltic pump

Ideal when requiring:

- complete fluid isolation
- a sterile, replaceable fluid path
- handling of sensitive fluids
- quick setups
- high flexibility
- integration with single-use systems

A **complementary technology** to volumetric pumps, not an absolute alternative.



MPA New Peristaltic Pump Operating Principles

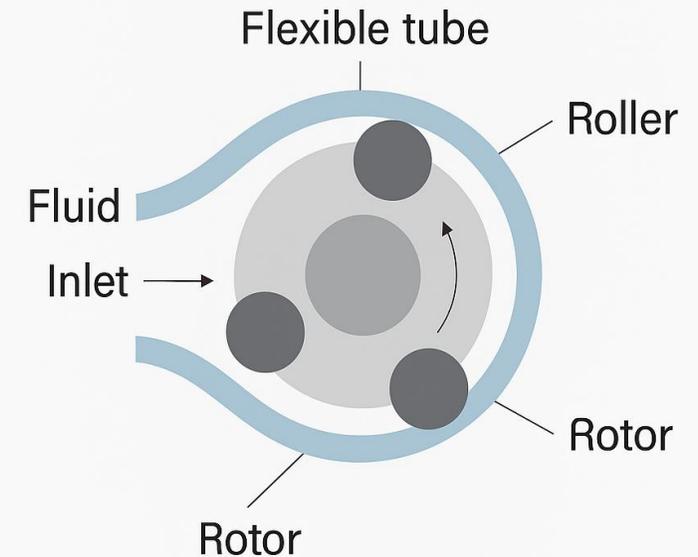
How a peristaltic pump works:

- Rotating rollers compress a flexible tube
- The compression pushes the fluid forward
- The tube reopens and draws in new product
- No valves or mechanical seals in contact

👉 The product only contacts the tube

👉 The fluid path is easily replaceable

How Does It Work?



MPA New Peristaltic Pump

Key advantages

- **No contact** of fluid with mechanical components
- **Reduced** contamination risk
- **Fast** product changeover
- **Simplified** cleaning
- **Gentle** pumping action
- **Ideal** for sensitive fluids
- **Perfect** integration with single-use systems



MPA New Peristaltic Pump Key Considerations

Operational parameters to evaluate:

- Tubing is a wear component
- Moderate operating pressure range
- Naturally pulsating flow
- Periodic calibration for critical dosing

With **proper tubing selection** and **preventive maintenance**, performance remains stable and reliable.



MPA New Peristaltic Pump

The new MPA peristaltic pump



Designed to meet the needs of modern pharmaceutical processes:

- hygiene-focused design
- mechanical stability
- continuous operation
- easy integration
- repeatable performance

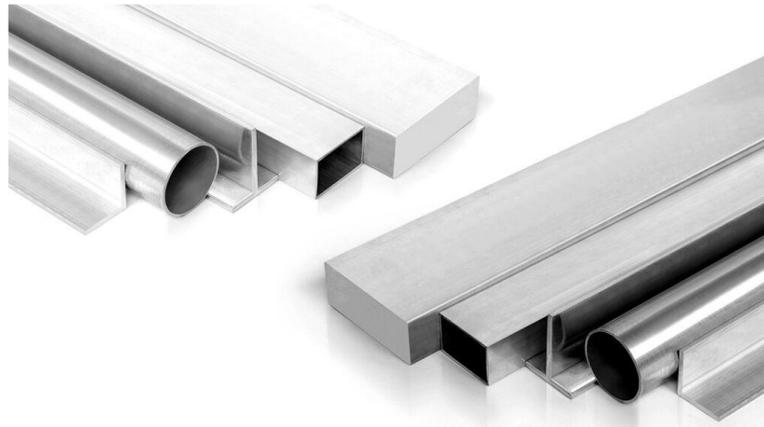
Engineered to meet **high quality standards** while maintaining competitive positioning.



MPA New Peristaltic Pump Available in 2 versions

Aluminum version

- lighter
- more cost-effective
- ideal for skid or machine integration



Stainless-steel version

- maximum hygiene
- high durability
- suitable for critical GMP environments
- long-term stability

👉 Same performance, different configurations

MPA New Peristaltic Pump PEEK leaf springs

The MPA pump uses **PEEK leaf springs** instead of traditional metal springs.

Key Benefits:

- more consistent compression over time
- no drift due to manual adjustments
- greater repeatability
- fewer areas that are difficult to clean
- improved hygiene
- reduced maintenance

👉 A **technical innovation detail** that enhances overall process stability

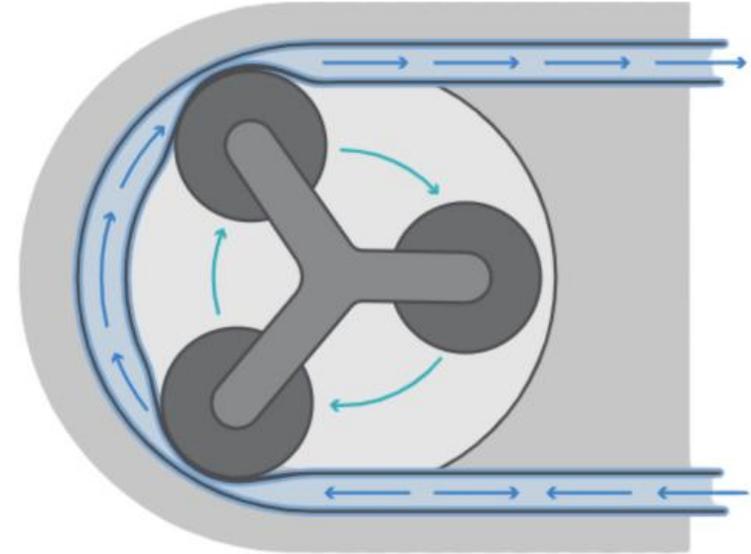


MPA New Peristaltic Pump The Performance

Performance designed for real applications

- precise and repeatable dosing
- continuous operation
- mechanical stability
- consistent behavior
- easy integration into existing systems

Tested to **meet real process requirements**—not just theoretical specifications



MPA New Peristaltic Pump Typical Applications



Applications of the MPA peristaltic pump

- sterile fluid transfer
- dosing and formulation
- biotech processes
- auxiliary operations in filling lines
- single-use systems

A **flexible technology** suitable for multiple stages of the process.



MPA New Peristaltic Pump Complete “One-Stop Shop” Portfolio

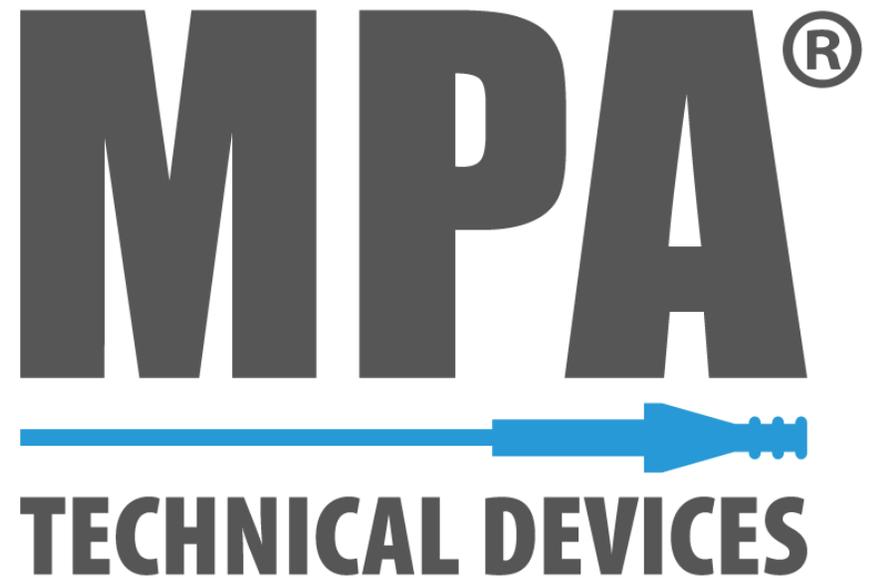


A full portfolio for pharmaceutical fluid handling

MPA offers:

- stainless-steel volumetric pumps
 - ceramic volumetric pumps
 - peristaltic pumps
- 👉 Complementary technologies
- 👉 A single technical partner
- 👉 Coherent, process-oriented solutions





Thank you
for your
attention!