



Robust. Precise. Low-Maintenance. PERIDOS FXM Peristaltic Pumps.

Reliable and low-maintenance conveying and dosing –
even in the toughest environments.



safety is our concern

Lutz Jesco and Lutz Pumpen – Your Trusted Partners for Conveying and Dosing Solutions from a Single Source

Enhance process stability and minimize downtime in liquid handling with the integrated system solutions from Lutz Jesco and Lutz Pumpen – both part of Lutz Holding.

Our diverse portfolio delivers cutting-edge solutions, featuring precision dosing pumps, eccentric screw pumps, drum pumps, peristaltic pumps, and chemical centrifugal pumps. Paired with modular transfer systems, our technologies are engineered to handle a wide range of viscosities, chemical resistances, and temperature demands with unmatched reliability and efficiency.

We also offer complete disinfection and water treatment systems. Our pre-assembled skid units integrate pumps, dosing equipment, and advanced control technology on a single baseplate. These compact solutions save space, minimize installation time and costs, and ensure faster project completion.

Our solutions are used across numerous industries – from chemicals, food, and pharmaceuticals to environmental technology, water treatment, electroplating, and mechanical engineering.

A global sales and service network ensures fast commissioning, maintenance, and technical support – keeping your systems operational and your processes secure.

With Lutz Jesco and Lutz Pumpen, you benefit from fully integrated solutions that meet the highest standards of quality and environmental responsibility. Designed for long service life and minimal downtime – all from a single, reliable source.



PERIDOS FXM

Reliable Conveying and Dosing in the Toughest Environments

Do you handle aggressive or abrasive fluids as part of your daily operations? Are you looking for a pump that delivers consistent performance with minimal maintenance - even in permanent duty operations?

Discover the new PERIDOS FXM series from Lutz Jesco: peristaltic pumps engineered for rugged industrial and municipal environments. Designed to offer outstanding durability, process reliability, and low total cost of ownership.

Engineered for Precision and Resilience

The PERIDOS FXM series is ideal for the accurate dosing of aggressive and abrasive media. Perfectly suited for a wide range of industries:

- **Water & Wastewater Treatment**
e.g., dosing of precipitants, flocculants, pH adjusters, and disinfectants.
- **Chemical Industry**
e.g., conveying and dosing corrosive, viscous, or particle-laden fluids.
- **Food & Beverage**
e.g., hygienic handling of flavors, concentrates, additives, and viscous products.
- **Pulp & Paper**
e.g., addition of dyes, starch, and process chemicals.
- **Mining & Construction**
e.g., pumping sludges, suspensions, or sealants.
- **Agriculture & Agricultural Engineering**
e.g., dosing fertilizers, vaccines, disinfectants, and hygiene agents.



How Peristaltic Pumps Work – And Why They Excel

Peristaltic pumps use rotating rollers to compress a flexible hose, pushing the fluid forward. Since the fluid only contacts the hose, the pump stays clean, hygienic, and unaffected by aggressive media.

Key Benefits at a Glance

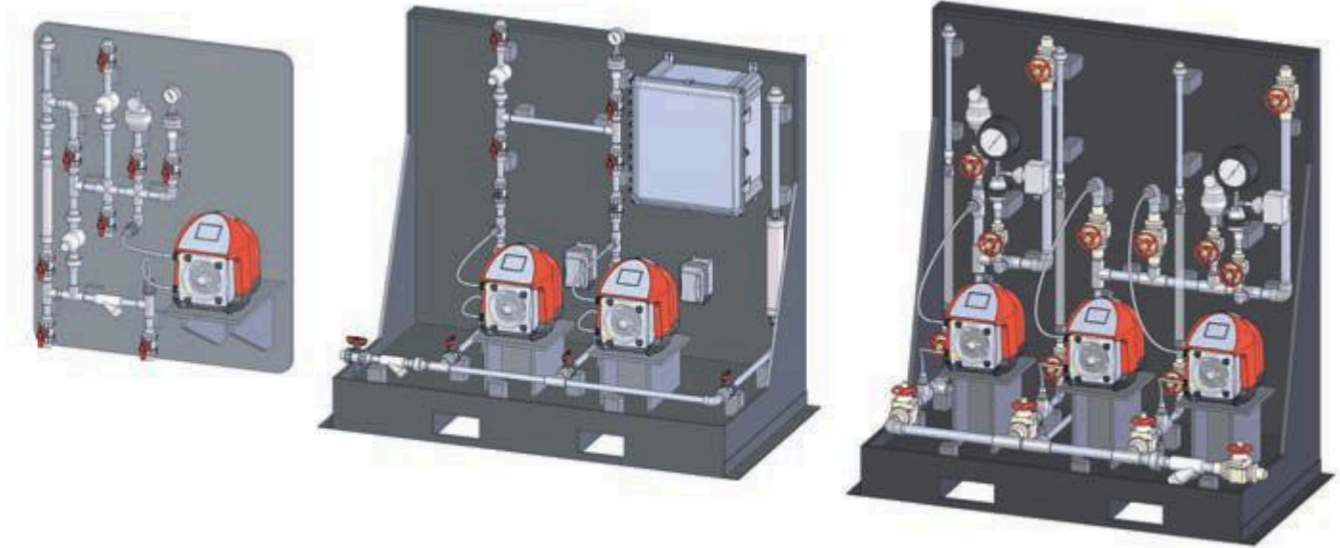
- **Chemical Resistance:** Only the hose comes into contact with the medium. Hose materials can be customized to suit your specific fluid.
- **Fail-Safe Operation:** No check valves or control valves required – fewer potential faults, increased uptime.
- **Gas Tolerance:** Efficiently handles gas-forming liquids (e.g., sodium hypochlorite).
- **Low Pulsation:** Smooth, nearly pulse-free flow for precise dosing.
- **Self-Priming:** Strong vacuum enables suction from empty or lower-positioned pipes – no priming aids required.
- **Reversible:** Easily reverse motor direction to drain or clean the line.



Lutz PERIDOS FXM Peristaltic Pumps



The Lutz Jesco PERIDOS FXM peristaltic pumps are ideal for integration into complete chemical feed systems, offering easy installation, high reliability, and both operational and cost efficiency.



Three Power Levels – One Compact Design

PERIDOS FXM pumps are available in three output levels, all featuring a compact, space-saving design.

Each model features a fully integrated drive, gearing, electronics, and pump head, eliminating the need for external control units.

PERIDOS FXM 1:

Entry-level model – 0.6 GPH (2.8 l/h)
at 21.8 psi (1.5 bar)





PERIDOS FXM 2:

From up to 46.5 GPH (176 l/h) at 125 psi (8.6 bar)

Max suction lift: 30 ft. (9 m)

PERIDOS FXM 3:

From up to 221.9 GPH (840 l/h) at 65 psi (4.5 bar)

Max suction lift: 30 ft. (9 m)



PERIDOS FXM – Built for Performance

Features FXM 2 and FXM 3

- **Wide Turndown Ratio**

Exceptional control range of up to 5000:1 – e.g., FXM 2 can dose from 46.5 GPH down to 0.000925 GPH.

- **Exceptional Dosing Precision**

Dual CNC-machined rollers and alignment rollers ensure $\pm 1\%$ repeatability and extended hose life.

- **Real-Time Flow Monitoring**

Models 2 and 3 optionally support a **Flow Verification Sensor (FVS)** for continuous flow rate monitoring and immediate fault detection.

- **Leak Detection Without Contact**

Optional **Capacitive Hose Leak Detector (TLD)** detects leaks early, preventing downtime and protecting the environment.

Durable Construction – Inside and Out:

- **Non-Wetted Components:**

- Pump head: PBT GF30 (glass-fiber reinforced)
- Housing: Powder-coated aluminum
- Cover: Transparent acrylic
- Motor shaft: Stainless steel
- Rotor: PBT GF30
- Rollers: POM (polyacetal)
- Bearings: Ball bearings

- **Wetted Components:**

- Inlet hose: PVC
- Foot valve: PP
- Pressure hose: PE
- Vaccination point with check valve: PVDF



- **High-Performance Hoses**

Choose from Norprene (chemical), Polyurethane (oils/grease), or fabric-reinforced Norprene (acids) – all engineered for durability and pressure resistance.

- **Quick, Tool-Free Maintenance**

The hose is the only wear part – easily replaced in minutes without special tools or pump disassembly.

Certified for Global Use

The PERIDOS FXM series meets top international standards:

- **UL 778 (6th Ed.)** – Motor-Driven Water Pumps
- **CAN/CSA C22.2 No. 109-14 (5th Ed.)**
- **NSF/ANSI/CAN 61 & 372** – Certified by the Water Quality Association (WQA) (Hose-specific certification: Norprene)



PERIDOS FXM – Ready for Industry 4.0



Modern operations demand smart, connected systems. The PERIDOS FXM is ready:

- **Industrial Communication Protocols:**
Ethernet/IP, Modbus TCP

- **Flexible Interface Options:**
4–20 mA, 0–10 V DC, pulse output
– easy SCADA integration.
- **Comprehensive Monitoring:**
Monitor up to 17 pump functions
(e.g., temperature, motor status) with relay signals.
- **Intuitive Touch Interface:**
Digital pad with guided menus for fast, error-free
setup and minimal training.





Lutz PERIDOS FXM Peristaltic Pumps



Technical Data	PERIDOS FXM 1	PERIDOS FXM 2	PERIDOS FXM 3
Maximum flow	0.6 GPH/2.8 l/h	46.5 GPH/176 l/h	221.9 GPH/840 l/h
Maximum pressure	21,8 psi/1.5 bar	125 psi/8.6 bar	65 psi/54.5 bar
Maximum viscosity	2000 cp	5000 cp	5000 cp
Maximum suction lift	9.84 ft, water, 4.4 psi (Abs)/ 3 m water, 0.3 bar (Abs)	30 ft. water, 1.5 psi (Abs)/ 9 m water, 0.1 bar (Abs)	30 ft. water, 1.5 psi (Abs)/ 9 m water, 0.1 bar (Abs)
Remote adjustment	n.a.	4 – 20 mA, 0 – 10 V DC or pulse	4 – 20 mA, 0 – 10 V DC or pulse
Inputs	n.a.	2 remote inputs, 1 assignable input	2 remote inputs, 1 assignable input
Industrial network protocols	n.a.	Ethernet/IP, Modbus TCP	Ethernet/IP, Modbus TCP
Feedbacks	n.a.	4 – 20 mA, pulse and 4 alarm contacts	4 – 20 mA, pulse and 4 alarm contacts
Voltage (max amp)	225 – 235 V AC, 50/60 Hz	96 – 264 V AC 50/60 Hz	96 – 264 V AC 50/60 Hz
Accuracy	± 10 %	± 0.5 %	± 0.5 %
Repeatability	n.a.	± 0.5 %	± 0.5 %
Output speed control range	n.a.	1 – 100 % in 0.1 % increment 0.02 – 1 % in 0.01% increment 5000:1 turndown	1 – 100 % in 0.1% increment 0.02 – 1 % in 0.01% increment 5000:1 turndown
Enclosure	PP	NEMA 4X/IP 66	NEMA 4X/IP 66
Plug type	230 V AC, CEE7/VII (Europe) 230 V, BS 1363 (UK) 230 V AC, AS/NZS3112 (AUS)	125 V AC, NEMA 5/15 (US) 230 V AC, NEMA 6/15 (US) 230 V AC, CEE7/VII (Europe) 230 V, BS 1363 (UK) 230 V AC, AS/NZS3112 (AUS)	125 V AC, NEMA 5/15 (US) 230 V AC, NEMA 6/15 (US) 230 V AC, CEE7/VII (Europe) 230 V, BS 1363 (UK) 230 V AC, AS/NZS3112 (AUS)
Maximum fluid temperature	41 °F to 122 °F/5 °C to 50 °C	130 °F/54 °C	130 °F/54 °C
Minimum & maximum ambient operating temperature	41 °F to 122 °F/5 °C to 50 °C	32 °F to 115 °F/0 °C to 46 °C	32 °F to 115 °F/0 °C to 46 °C
Weight (shipping weight)	1.65 lb/750 g	28.6 lb (30.8 lb)/13 kg (14 kg)	44 lb (46 lb)/20 kg (21 kg)
Motor power	max. 0.007 hp/max. 5 W	0.25 hp/190 W	0.25 hp/190 W



Contact Us Today

Do you have any questions about the PERIDOS FXM series or need support with selection and integration?

We're here to help – contact us at:

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- e-mail: infoljac@lutzjescoamerica.com
- www.lutz-jesco.com/us

We look forward to supporting your project.

Your team at Lutz Jesco



More about our Peristaltic pumps program.

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