Metso

Peristaltic hose pumps

Reliable dosing and flow control



The Metso LPP-D dosing series delivers accurate dosing and flow control for demanding applications. Its design provides consistent flow regardless of discharge pressure, helping maintain stable process performance.

Consistent dosing

Process conditions can change, but dosing accuracy should remain consistent. The LPP-D dosing series uses a positive displacement pumping principle that delivers a fixed volume of media during every pump cycle while minimizing backflow. As a result, flow remains stable regardless of discharge pressure.

Designed for abrasive, corrosive, viscous and crystallizing media, LPP-D pumps provide reliable operation in industrial applications. The wear-resistant hose and hose inserts are the only components in contact with the process media, helping reduce wear on critical pump components and simplify maintenance.

Advanced rolling design

The LPP-D series incorporates an advanced rolling design that reduces friction and heat generation inside the pump. Reduced friction supports continuous operation, maximizes hose life and lowers energy consumption.

The design is capable of operating in continuous duty at maximum pressure and flow at the same operating point. Depending on the application, hose life can be 3 to 5 times longer than with conventional hose pump designs. Because the hose is the primary wear component, maintenance is straightforward and downtime can be minimized.

Designed for challenging media

LPP-D pumps are suitable for handling:

- Abrasive slurries
- Corrosive chemicals
- Viscous liquids
- Crystallizing products

Typical applications

- Chemical dosing (lime milk, flocculants)
- Flotation (flocculant dosing)
- Process analyzer sample transfer

Benefits

- Accurate and repeatable dosing
- Stable flow independent of discharge pressure
- Minimal backflow
- Reliable continuous operation
- Energy-efficient design
- Long hose life
- Reduced maintenance requirements

LPP-D dosing series

Consistent dosing when process conditions change

The LPP-D dosing series combines accurate dosing with a simple and robust design. Its positive displacement pumping principle delivers consistent flow and reliable process control in demanding applications.

	LPP-D15	LPP-D20	LPP-D25
Key technical specifications			
Weight	47 kg / 104 lb	47 kg / 104 lb	60 kg / 132 lb
Flow per revolution	0.1 l / 0.026 gal	0.18 l / 0.047 gal	0.30 l / 0.079 gal
Maximum flow	0.66 m^3/h / 2.91 gpm	1.2 m^3/h / 5.28 gpm	2.0 m^3/h / 8.8 gpm
Maximum pressure (standard)	7.5 bar / 108 psi	7.5 bar / 108 psi	7.5 bar / 108 psi
Maximum pressure (high pressure)	16 bar / 232 psi	16 bar / 232 psi	16 bar / 232 psi
Maximum fluid temperature*	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F
Lubricant volume (standard)	0.4 l/ 0.1 gal	0.4 l / 0.1 gal	0.4 l / 0.1 gal
Lubricant volume (high pressure)	1 l / 0.26 gal	1 l / 0.26 gal	1 l / 0.26 gal
Hose bore	15 mm / ½ in	20 mm / ¾ in	25 mm / 1 in
Motor power	0.55-1.1 kW / 0.75-1.5 hp	0.55-1.1 kW / 0.75-1.5 hp	0.75-1.5 kW / 0.75-2.0 hp

* Depending on hose material

Available hose materials
- EPDM (ethylene propylene)
- NR (natural rubber)
- NBR (nitrile rubber)
- NBRF (FDA nitrile rubber)
- CSM (chlorosulphonated polyethylene)

Available auxiliary equipment
- Hose leak detector
- Revolution detector
- Forced cooling fan
- Pressure transmitter
- Frequency inverter

Services and support

Metso supports the LPP-D dosing series with:
- Spare and wear parts
- Maintenance support
- Technical support
- Lifecycle services

These services help maximize equipment availability and support reliable long-term operation.

© 2026 Metso Corporation. All trademarks and registered trademarks are the property of their respective owners. 5582-10-26-EN-CNS