Metso

Peristaltic hose pumps

Reliable slurry transfer



The Metso LPP-T transfer series is designed for transferring abrasive, corrosive, viscous and crystallizing slurries. Its design supports reliable continuous operation while helping lower maintenance requirements and operating costs.

Handles challenging slurry applications
High-solids slurries can place significant demands on pumping equipment. The LPP-T transfer series is designed for continuous-duty slurry transfer, handling solids concentrations of up to 60-80% depending on application conditions.
Designed for abrasive and demanding media, LPP-T pumps provide reliable operation in a wide range of industrial applications. The wear-resistant hose and connection flanges 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-T 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 also supports continuous operation at high flow rates. 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. The LPP-T series uses only approximately 20% of the lubrication required by conventional peristaltic hose pumps, helping lower operating costs and maintenance requirements.

Designed for challenging media
LPP-T pumps are suitable for handling:
- High-solids slurries
- Abrasive slurries
- Corrosive media
- Viscous products
- Crystallizing media

Typical applications
- Thickener underflow
- Tailings transfer
- Filter feed
- Storage tank transfer
- Negative suction lift duties such as sump pumping

Benefits
- Reliable continuous operation
- Handles high-solids slurries
- No mixing or shearing
- Lower energy consumption
- Low lubrication requirements
- Long hose life
- Reduced maintenance requirements

LPP-T transfer series

Built for continuous-duty slurry transfer

The LPP-T transfer series combines a robust design with reliable performance for demanding slurry transfer applications. Its pumping principle provides gentle product handling with no mixing or shearing, helping preserve material characteristics throughout the process.

	LPP-T32	LPP-T40	LPP-T50	LPP-T65	LPP-T80	LPP-T100
Key technical specifications						
Weight	360 kg / 661 lb	360 kg / 793 lb	650 kg / 1433 lb	960 kg / 2166 lb	2450 kg / 5401 lb	4300 kg / 11684 lb
Flow per revolution	0.87 l / 0.23 gal	1.25 l / 0.33 gal	2.75 l / 0.73 gal	5.4 l / 1.43 gal	11.6 l / 3.06 gal	31.6 l / 8.35 gal
Maximum flow	5.5 m^3/h / 24.2 gpm	8 m^3/h / 35.2 gpm	11.5 m^3/h / 50.6 gpm	20 m^3/h / 88 gpm	40 m^3/h / 176 gpm	100 m^3/h / 440.3 gpm
Maximum pressure	10 bar / 150 psi	10 bar / 150 psi	10 bar / 150 psi	10 bar / 150 psi	7.5 bar / 108 psi	10 bar / 150 psi
Maximum fluid temperature*	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F	Up to 95 °C / 203 °F
Lubricant volume	2.5 L / 0.67 gal	2.5 L / 0.67 gal	5.0 L / 1.32 gal	5.0 L / 1.32 gal	10 L / 2.64 gal	25 L / 6.6 gal
Hose bore and flange connection	32 mm / 1.25 in	40 mm / 1.5 in	50 mm / 2 in	65 mm / 2.5 in	80 mm / 3 in	100 mm / 4 in
Motor power	0.75-4.0 kW / 1-5 hp	1.1-5.5 kW / 1.5-7.5 hp	1.5-9.2 kW / 2-15 hp	3-11.0 kW / 5-15 hp	9.2-22.0 kW / 15-30 hp	37-75 kW / 50-100 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-T transfer series with:

- Spare and wear parts
- Maintenance support
- Technical support
- Lifecycle services

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

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