

MODEL LSM-010

Peristaltic Hose Pumps

DOUBLE the HOSE LIFE and HALF the POWER



Features

- ✓ **Handle Slurries, Viscous, Aggressive and Shear Sensitive materials**
- ✓ **Pump casings in many corrosion resistant materials and coatings**
- ✓ **100% isolation between fluid and pump – hose is ONLY wetted part**
- ✓ **No cavities, rotors, balls or valves to stick**
- ✓ **No Seals, No Packings**
- ✓ **Special Adjustable Soft Rollers ensure extended Hose life**
- ✓ **Reversible Flow direction**
- ✓ **Self Priming with suction lift to 29.5 ft, 9 m H₂O**
- ✓ **Dry run capability**
- ✓ **Variable Speed Drives for accurate dosing and integration into your process control systems**
- ✓ **Low Simplified Maintenance**
Only 1 wearing part and virtually no spares needed

Superior Technology

The LSM pump solution gives you all the advantages offered by other Peristaltic Hose Pumps, and 5 additional features which significantly reduce the operating cost for the pump.

Technical features include:

1. **Lower pump speed**
2. **Lower power consumption**
3. **Rollers not Shoes**
4. **Adjustable hose compression**
5. **Double Hose Life and Half Power**

Increased pump diameter means longer perimeter, increased hose volume and a higher pump capacity per rotation.

LSM pumps need fewer rotations than others to move an equal volume. In other words, a much lower pump speed.

As the LSM design displaces around double the volume per rotation of a similar pump, only half the power is consumed when pumping the same volume.



Unique roller/hose-adjustment for precise hose compression.

LSM use rollers not shoes for the hose compression. Rollers made of a soft poly- or fluorocarbonate provide extremely low friction when compressing the hose.

Hard fixed shoes generate much higher friction, increased wear, and physical stress when pulled over the hose surface.

Adjustable hose compression, soft rollers and the movement distributed over a longer hose length, extend the hose life to double or more.



Model LSM-010 without the cover. The hose and fittings are the ONLY wetted part. The soft rollers, unique adjustment system and larger diameter ensure longer hose life and lower operating costs.



Special LSM-010 dosing unit for injection of jam into ice cream (Ghana, Africa). This design will handle many similar dosing applications, and is available tailor made for your applications.



The LSM-010 dosing pumps, are either with Polyurethane or Stainless Steel housing.



manufacturer
of the

Worlds Largest Peristaltic Hose Pumps



SPECIFICATIONS

Model	LSM - 010	
Displacement	0.05 l/rev	0.01 gal/rev
Speed (max rpm)	57 rpm (recommended)	
Flow (at max speed)	171 l/hr	0.8 GPM
Hose Diameter	10 mm	0.394 in
Pressure (max)	16 Bar(g)	230 psig
Temperature (max)	80°C	175°F
Fluid Temp. (max.)	Depend on Hose material	
Connections (standard)	¼" BSP Male (others available)	
Weight (approx)	22 kg	48 lb
Dimensions (HxWxL)	335x340x210mm	13.2x13.4x8.3 in

Hose Materials (others on request)

Materialer	Temperatur range	
Natural Rubber, NR	-20 to +80°C	-5 to +175°F
Nitrile Rubber, NBR	-20 to +80°C	-5 to +175°F
Neoprene	-10 to +80°C	-15 to +175°F
EPDM	-20 to +100°C	-5 to +210°F
Hypalon®, CSM	-20 to +85°C	-5 to +185°F
Silicone	-20 to +80°C	-5 to +175°F
Butyl	-20 to +80°C	-5 to +175°F

Above data is for general info only. Temperatures for Fluid pumped.
 FDA, USDA and 3A approved hose materials available.
 ® Hypalon is a registered Trade mark for Dupont Dow Polymers.

Typical Applications:

- Agriculture
- Biomass, Biogas and Bioethanol
- Brewing
- Ceramics
- Construction
- Food & Beverage
- Chemical
- Fish & Seafood
- Mining
- Pharmaceutical
- Paint & Coatings
- Pulp & Paper
- Power
- Oil & Gas, Offshore
- Water & Wastewater

Accessories & Options:

- Lubrication Level Guard
- Hose Rupture Detection
- AntiStatic Soft Rollers
- Polymer Coated Housing
- FDA approved hoses
- 3A Sanitary Clamps
- Flanges DIN / ANSI / JIS
- Threaded BSP / NPT / RG
- Dosing Control System
- Process Control Interface
- Variable Speed Drives
- Vacuum Control System
- 110 to 575V, 50/60 Hz
- CSA, FM, PTB, UL etc

LSM

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LSM-015 pumps for Acid and Caustic dosing in a CIP system



Trolley mounted LSM-025 on a mobile pumping unit for manure in an agriculture facility.



LM32 "Low Maintenance" pump. LSM "Low Simplified Maintenance" design will supersede the LM series.



LSM-100 pumps installed in an African mining facility. Part of major order awarded due to the excellent features and superior hose life.



The LSM-200 "Super Size" which replace the LSM-150 "Big Flow" as the "Worlds Largest Peristaltic Hose Pump". Both pumps are designed and manufactured by LSM PUMPS

DOUBLE the HOSE LIFE and HALF the POWER
 of other Peristaltic Hose Pumps