

Wallace and Tiernan® Liquid Chemical Feed Systems

Chemtube® PPS Model LD76 System

SIEMENS

The Chemtube® PPS Model LD76 positive displacement peristaltic pump system is designed to handle a wide variety of chemicals and liquids. Simple operation consists of two parallel hoses each driven by three rotating rollers that gradually compress the hose, forcing liquid just ahead of each roller. The hose snaps back to its original shape after the rollers pass, refilling with liquid for the next discharge revolution. The pumped liquid only comes in contact with the tube interior and the end fittings.

Features

- Compact footprint
- Self priming
- No seals
- No valves to clog
- High suction lift capability

Technical Data

Materials of Construction:

- Pump Housing: Cast Iron
- Rotor: Cast Iron
- Rollers: Cast Iron
- Mounting Frame: Painted Steel

Available Hose Material: Natural Isoprene, Buna N, EPDM, Hypalon®

Side Cover: Polystyrene

Connection & Insert Materials: 316SS, PVC, or Titanium

Connection Size: 3" ANSI 150-lb flange

Leak Detector Switch Rating: 100 VA Max, 230 Volts, 2.5 amps

Operating Range:

- 20 to 1 with SCR Variable Speed Drive
- 10 to 1 or 100 to 1 with Inverter Drive

Accessories: Pulsation Dampeners, Calibration Columns, Pressure Relief Valves, Pump Manifold, Wheel Kit

Power Supply:

- 230/460 Volts Three Phase

Fluid Temperature:

- -10 to 74°C (14 to 165° F) (Buna N Tube)
- -10 to 85°C (14 to 185° F) (Natural Isoprene Tube)
- -10 to 93°C (14 to 200° F) (EPDM Tube)
- -10 to 85°C (14 to 185° F) (Hypalon® Tube)

Max Discharge Pressure: 15 Bar (225 PSI)

Max Suction Lift: 8 m (28 ft)

Max Flooded Suction: 23 PSI

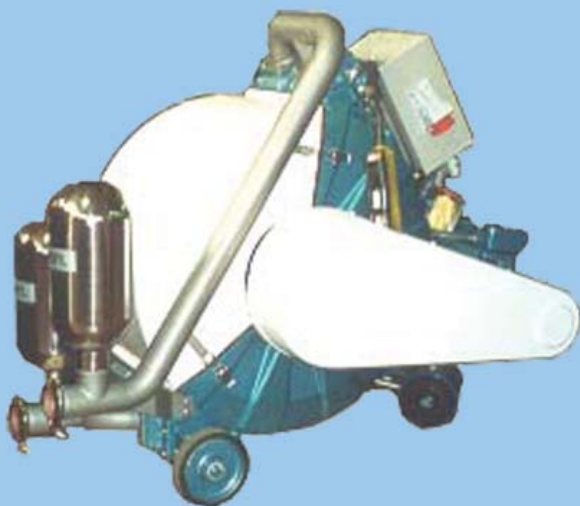
Hose Size: 76mm (ID)

Motor Hp:

- Up to 20 HP Induction
- Up to 20 HP Inverter or Variable Speed

Weight: 770 kgs (1700 lbs)

Shipping Weight: 815 kgs (1800 lbs.)



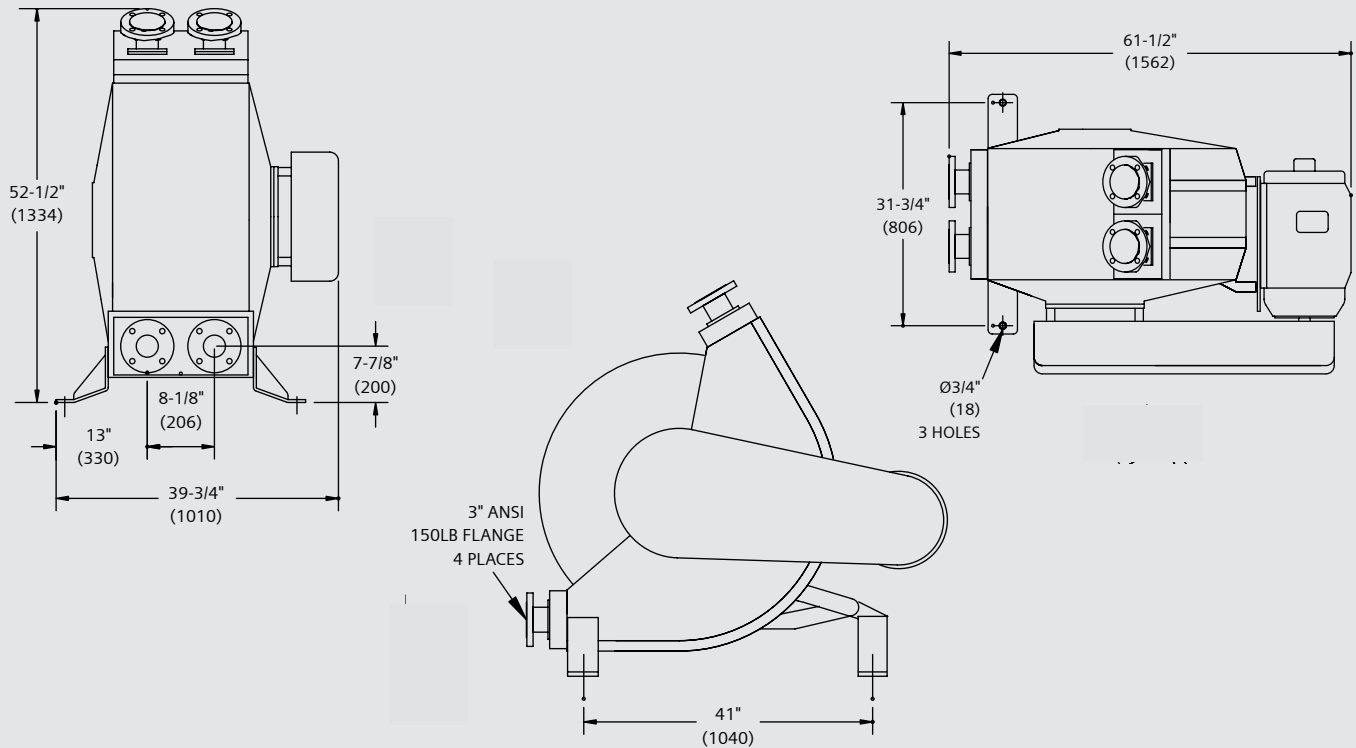
Key Benefits:

- Efficient and smooth, roller technology eliminates the need for an oil bath in the pump housing
- Flexible control options-constant speed, VFD and SCR
- Simplified service and maintenance
- Ideal for multi-phase fluids and slurries
- Early detection of hose failure - leak detector mounted at lowest point of housing
- Unobstructed flow-through pumping

LD76 Fixed Speed Capacity Chart										
RPM	2 Bar (30 PSI)		HP*	3 Bar (45 PSI)		HP*	3.3 Bar (50PSI)		HP*	Duty Cycle
	LPH	GPH	Ind & Inv	LPH	GPH	Ind & Inv	LPH	GPH	Ind & Inv	
21	25738	6800	15	24980	6600	15	24220	6400	15	Continuous
33	41256	10900	15	39743	10500	15	38607	10200	15	Intermittent*
47	58290	15400	15	X	X	X	X	X	X	
RPM	3.3 Bar (50 PSI)		HP*	6.7 Bar (100 PSI)		HP*	15 Bar (225 PSI)		HP*	Duty Cycle
	LPH	GPH	Ind & Inv	LPH	GPH	Ind & Inv	LPH	GPH	Ind & Inv	
20	20440	5400	20	18900	5000	20	17000	4500	20	Continuous
32	32550	8600	20	28380	7500	20	X	X	X	Intermittent*
45	41630	11000	20	X	X	X	X	X	X	

Note: Shaded areas denote intermittent service.

*Intermittent Duty: Max. 1 hour running; Min. 1 hour off.



Notes: All dimensions in () are mm. See WT.490.200.138.UA.CN and WT.490.200.140.UA.CN for complete dimensions.

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