

Wallace & Tiernan[®] Liquid Chemical Feed Systems Chemtube[®] PPS Model L76 System

The Chemtube[®] PPS Model L76 positive displacement peristaltic pump system is designed to handle a wide variety of chemicals and liquids. Simple operation consists of three rotating rollers that gradually compress an elastomeric tube, forcing liquid just ahead of each roller. The tube 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
- No seals
- High suction lift capability
- Self priming
- No valves to clog

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, 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)

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

Max Discharge Pressure:

- 12 Bar (180 PSI) Continuous
- 15 Bar (225 PSI) Intermittent

Max Suction Lift: 8 m (28 ft)

Max Flooded Suction: 1.5 Bar (23 PSI)

Hose Size: 76mm (ID)

Motor Hp: Up to 15 HP Induction

Up to 15 HP Inverter or Variable Speed

Weight: 680 kgs (1500 lbs)

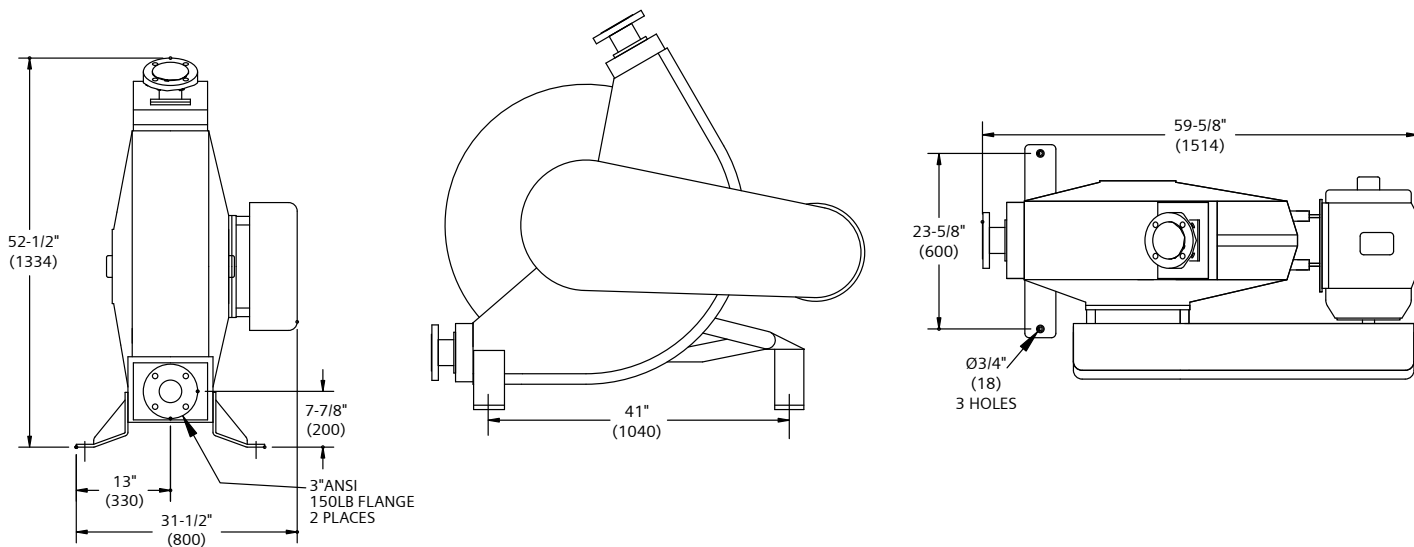
Shipping Weight: 725 kgs (1600 lbs)



Product Sheet

| L76 Fixed Speed Capacity Chart | | | | | | | | | |
|--------------------------------|----------------|------|-----------|------------------|------|-----------|------------------|------|-----------|
| RPM | 2 Bar (30 PSI) | | HP | 3 Bar (45 PSI) | | HP | 3.3 Bar (50 PSI) | | HP |
| | LPH | GPH | Ind & Inv | LPH | GPH | Ind & Inv | LPH | GPH | Ind & Inv |
| 21 | 12869 | 3400 | 7-1/2 | 12490 | 330 | 7-1/2 | 12112 | 3200 | 7-1/2 |
| 33 | 20628 | 5450 | 7-1/2 | 19870 | 5250 | 7-1/2 | X | X | X |
| 47 | 29145 | 7700 | 10 | X | X | X | X | X | X |
| RPM | 6 Bar (90 PSI) | | HP | 12 Bar (180 PSI) | | HP | 15 Bar (225 PSI) | | HP |
| | LPH | GPH | Ind & Inv | LPH | GPH | Ind & Inv | LPH | GPH | Ind & Inv |
| 20 | 10220 | 2700 | 15 | 9463 | 2500 | 15 | 8516 | 2250 | 15 |
| 32 | 16275 | 4300 | 15 | 14194 | 3750 | 15 | X | X | X |
| 45 | 20819 | 5500 | 15 | X | X | X | X | X | X |

Note: Shaded areas denote intermittent service. Max. 1 hour running; minimum 1 hour off



Notes: All dimensions in () are mm. See WT.490.200.134.UA.CN & WT.490.200.136.UA.CN for complete dimensions.

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