SOLUTIONS
APRIL 2003 VOL. 5, NO. 1

New Pumps, Hose Reels and Meters
Introducing the Right System Choices for the Job: High Performance, Low Price and Great Value

In This Issue:

4475 Pump pg.2

87000 Series Hose Reel pg.3

Oval Gear Electronic Lube Meters pg.4

Model 4475 Basic Pump: Add a Lincoln hose and control valves for compact dispensing systems
The new Lincoln 4475 Series pump is a truly affordable, easy to use and effective transfer pump. You no longer have to stretch your budget for air-operated pumps that are “overkill” and overpriced, or settle for manual pumps for light fluid transfer applications. This one is right sized and right priced!

This low-cost, air-operated metallic positive displacement piston pump transfers and dispenses low to medium viscosity fluids such as motor oil, transmission fluid and windshield wiper fluid. The positive displacement alternative to other low cost pump technologies lets you control the flow rate for clean, direct transfer operations as well as applications using meters for precise volume dispensing.

**Applications**
- Oil Change Outlets
- Motor Vehicle Service (Dealerships, Fleets, Municipalities)
- Agricultural Equipment Service
- Construction Equipment Service
- Industrial Plants, Mines and Mills

**Product Description**
The heart of the 4475 pump is a reciprocating-piston, low-pressure pump design. Air powers the pump’s piston on the dispensing, or working, stroke. An internal spring returns the piston and resets it for the working stroke. It pumps continuously when the dispensing (fluid outlet) valve is open and 20-120 psig air is supplied to the pump.

**Specifications:**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Material Outlet</th>
<th>Operation</th>
<th>Pump Tube Length</th>
<th>Attachment</th>
</tr>
</thead>
<tbody>
<tr>
<td>4475</td>
<td>Bare Pump</td>
<td>⅜&quot; or ½&quot; NPTF</td>
<td>Pneumatic fluid delivery stroke, spring return stroke</td>
<td>34' (86 cm)</td>
<td>2' Bung, adjustable for 55 &amp; 16 gal. drums, bench &amp; portable tanks</td>
</tr>
<tr>
<td>4480</td>
<td>Spigot Pump</td>
<td>Spigot extension with on/off valve</td>
<td></td>
<td>34' (86 cm)</td>
<td>2' Bung, adjustable for 55 &amp; 16 gal. drums, bench &amp; portable tanks</td>
</tr>
</tbody>
</table>

**Recommended Accessories**
Air Line controls are a must for safe and effective pump operation.

**Low Cost Fluid Dispensing System**
Use 4475 with other Lincoln components, such as:

- **Simple pump, hose, meter system for mounting on drums or portable tanks**
  - Model No. Description
    - 4475 Bare Pump
    - 952 Electronic Lube Meter
    - 73120 ¼" x 10' Fluid Hose
  - Sample Bill of Material

- **Pump, hose, meter system for mounting on bench tanks**
  - Model No. Description
    - 87334D Reel with 30’ Hose, Electronic Meter, 2’ Connecting Hose
Lincoln’s new 87000 Hose Reel family offers enhanced engineering design features to meet the needs of your demanding workplace with the value you require. An integral part of Lincoln’s complete lubrication system, the 87000 Series serves your dispensing needs—low pressure for air or water, medium pressure for oil and high pressure for grease.

**Applications**

- New car/truck dealers
- Fleet maintenance garages
- Municipal garages
- Truck stop oil change centers
- Light duty lube trucks
- Oil change outlets
- Industry

**Features & Benefits**

- Low-, medium-, and high-pressure models
- Extra-wide hose guide eliminates flex
- 180° “opposed ratchet” design provides greater hose length adjustments
- Seven-position roller outlet arm with four-way roller assembly

---

**87000 Specifications**

<table>
<thead>
<tr>
<th>Bare Reel</th>
<th>87700 Low Pressure</th>
<th>87300 Medium Pressure</th>
<th>87500 High Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Fluids</td>
<td>Air, ATF, Water, WW</td>
<td>Oil</td>
<td>Grease</td>
</tr>
<tr>
<td>Hose Capacity</td>
<td>60’ x ¾”, 50’ x ½”</td>
<td>50’ x ½”</td>
<td>60’ x ¾”</td>
</tr>
<tr>
<td>Maximum Working Pressure</td>
<td>2500 psi</td>
<td>2500 psi</td>
<td>8000 psi bare reel</td>
</tr>
<tr>
<td>Inlet/Outlet</td>
<td>¼&quot; NPTF</td>
<td>¼&quot; NPTF</td>
<td>¾” NPTF</td>
</tr>
<tr>
<td>with hose</td>
<td>5000 psi with hose</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Complete reel assemblies with hose, meter, control valve or air coupler are also available as one model number.
Oval Gear, Electronic
Lube Meters

Introducing a Full Line for Your Service Center

• Oval gear design
• Rugged and economical

The new Lincoln 954, 953, and 952 are accurate, affordable, and extremely capable electronic lube meters. Complimenting the popular 905 preset meter that was introduced in 2002, this new series offers you a value priced and quality package of meters sure to meet the varying needs of vehicle service centers.

Each meter is designed specifically to dispense typical fluids such as motor oils (S.A.E. 5-50), gear oils (S.A.E. 8-240), automatic transmission fluid, and pure antifreeze (Ethylene Glycol). These oval gear driven meters are highly accurate and the exact amount of fluid dispensed is shown on the easy to read 5-digit liquid digital display. A TOTAL button is also featured to regularly check the total amount of fluid dispensed from stock.

The 905, 954, 953, and 952 models are rugged to survive the harsh shop floor environment and feature a range of capabilities and nozzle configurations. Select from this complete package of meters for your next system!

Applications
• New car/truck dealers
• Oil change outlets
• Factories
• Fleet maintenance garages
• Municipal garages
• Truck stop oil change centers

Specifications

<table>
<thead>
<tr>
<th>Model Number</th>
<th>905*</th>
<th>952</th>
<th>953</th>
<th>954</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Flow</td>
<td>5.0 gpm**</td>
<td>6.0 gpm</td>
<td>6.0 gpm</td>
<td>6.0 gpm</td>
</tr>
<tr>
<td>Minimum Flow</td>
<td>0.25 gpm</td>
<td>0.25 gpm</td>
<td>0.25 gpm</td>
<td>0.25 gpm</td>
</tr>
<tr>
<td>Max. Op. Press.</td>
<td>1000 psi</td>
<td>1500 psi</td>
<td>1500 psi</td>
<td>1500 psi</td>
</tr>
<tr>
<td>Min. Op. Press.</td>
<td>5 psi</td>
<td>5 psi</td>
<td>5 psi</td>
<td>5 psi</td>
</tr>
<tr>
<td>Op. Temp. Range</td>
<td>-10°F to +110°F</td>
<td>-10°F to +110°F</td>
<td>-10°F to +110°F</td>
<td>-10°F to +110°F</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±0.5%</td>
<td>±1.5%</td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td>Inlet/Outlet Connections</td>
<td>¹⁄₂” NPTF</td>
<td>¹⁄₂” NPTF</td>
<td>¹⁄₂” NPTF</td>
<td>¹⁄₂” NPTF</td>
</tr>
<tr>
<td>Dispense Units</td>
<td>Gallons, Liters</td>
<td>Quarts, Liters, Gallons</td>
<td>Gallons, Liters</td>
<td>Gallons, Liters</td>
</tr>
<tr>
<td>Totalization Units</td>
<td>Gallons, Quarts, Liters, Gallons</td>
<td>Quarts or Liters</td>
<td>Gallons, Quarts, Liters, Gallons</td>
<td>Gallons, Quarts, Liters, Gallons</td>
</tr>
<tr>
<td>Nozzle &amp; Tip Configuration</td>
<td>70° rigid spout with nondrip nozzle</td>
<td>90° flex hose with manual tip &amp; swivel</td>
<td>30° rigid spout with automatic tip</td>
<td>Flex straight hose with automatic tip</td>
</tr>
<tr>
<td>Fluids</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Oils</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Gear Oils</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Auto Trans. Fluid</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Hydraulic Fluid</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>W/Washer Fluid</td>
<td>N/A</td>
<td>N/A</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Anti-Freeze</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Break Fluids</td>
<td>N/A</td>
<td>N/A</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

* 905 model offers preset mode
** 7.9 gpm without nondrip nozzle

Features & Benefits

◆ Rugged: Shock resistant housings protect the meters in harsh shop floor environments
◆ Flexible: Range of capabilities and nozzle configurations to meet your needs
◆ Accurate: Digital display has two decimal point precision to show the exact amount of fluid dispensed
◆ Easy to Maintain: Field replaceable batteries with a low battery indicator
◆ High Performance at an Affordable Price: A dependable product line with high maximum flow rates and operating pressure capabilities at a price less than most other electronic lube meters

Lincoln Industrial Corp.
One Lincoln Way
St. Louis, MO 63120-1578

Phone 314-679-4200
Fax 314-679-4359
www.lincolnindustrial.com

Form 442960 (4/03)
© Copyright 2003
Printed in U.S.A.