

LDP SERIES

Drum Pumps



ELECTRIC & PNEUMATIC DRUM PUMPS

● INTRODUCTION

The Lubi electric and pneumatic drum pumps are centrifugal and self priming pumps, which provides a safe and accurate way to transfer liquids from drums, containers, tanks and totes.

Pumps have vertical suction and horizontal discharge port.

These are lightweight, handy and extremely powerful devices suitable for transferring thin to low viscous, neutral or corrosive, aggressive & non-aggressive, non-flammable and non-explosive liquids. Designed for portable and static use the pumps are particularly suitable for intermittent operation.

The state-of-the-art design and high efficiency motors offer an accurate and cost effective alternative to the hazards of handling liquids. Modular concept design provides interchangeability of Lubi various tubes of different material to the standard high speed Lubi electric or air motor.

The drum pumps eliminate the need to turn over barrels or drums to remove the liquid inside.

The pumps consists of:

- Pump tube
- Electric or air motor

Pumps can be driven by either electric motor or air motor.

Lubi offers wide range of material variant for pump tubes as suitable for different types of pumped liquids.

Pump tubes are available in four basic versions as described below:

- Stainless steel AISI 316 pump
- CPVC (Chlorinated Polyvinyl Chloride) pump
- PP (Polypropylene) pump
- PVDF (Polyvinylidene Fluoride) Kynar® pump

Motors are available in two basic versions as described below:

- Pump operated with high speed electric motor (10000 rpm at 50 Hz)
- Pump operated with air motor.

The mechanism of drum pumps is very simple. It consists of a vertical shaft inside a very narrow tube, which can fit into the opening at the top of a standard drum or container. A small motor, located at the top of the tube, is connected to the shaft. This motor is AC electric motor or Air motor, with a trigger switch. At the bottom of the tube is the pumping element itself. Turn on the pump, and the liquid will be drawn out in a steady flow. While using minimal power, drum pumps also lower the risk of spillage.

● APPLICATIONS

These pumps are used for pumping out liquids from drums, barrels, large storage vessels, stainless steel tanks, totes, etc.

Drum pumps are widely used by different sectors such as:

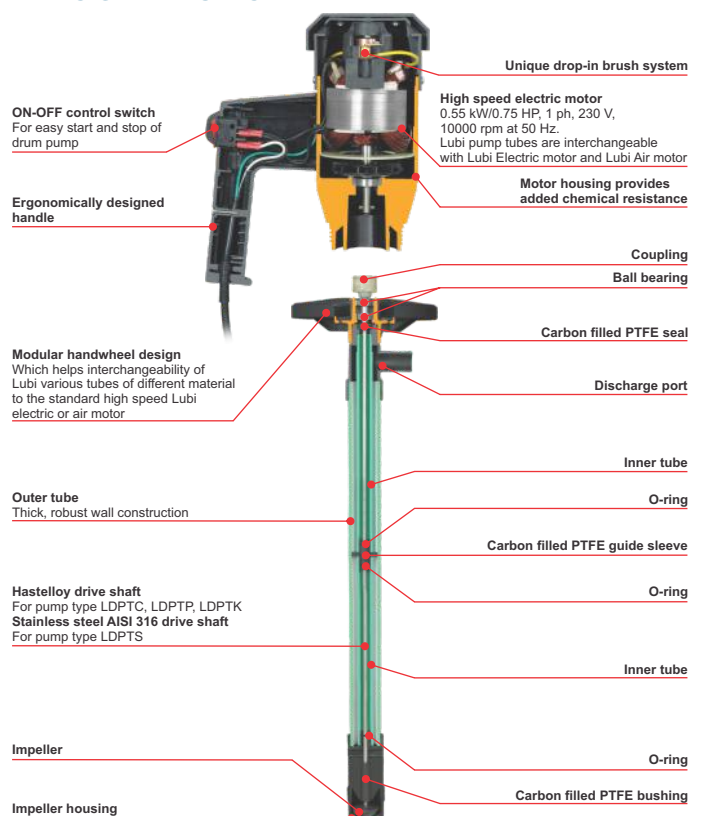
- Chemical plants
- Food processing plants
- Packaging plants
- Plating
- Semiconductor
- Waste water treatment
- Pharmaceutical
- Laboratories
- Automotive industries
- Agriculture.

● FEATURES AND BENEFITS

These pumps are designed specially for drums, vats, totes, containers, carboys, open vessels up to 1.5 mtrs (60") deep.

- High quality components
- Light weight, portable
- Easy to install, user friendly operation
- Ergonomically designed handle
- Safe chemical transfer, an alternative to manual - minimizes danger of spills, vapors, burns, health, environmental, liability concerns
- Pulsation free
- Inherent flooded suction
- Sealless design
- Operates by AC electric motor or pneumatic air motor.
- Few parts - maintenance friendly
- Pumps liquids with viscosity up to 750 cps
- Electric motors are available with speed control
- Limited dry run capability
- Flow rates to 104 l/min (27 USgpm)
- Pressures to 2.4 bar (22 metres of head)
- Temperatures to +88°C (+190°F).

● DESIGN FEATURES



PUMP SET 1 - STAINLESS STEEL AISI 316

● DRUM PUMPS FOR LIGHT OILS

Lubi's Stainless steel AISI 316 pump set is engineered for transferring light oils and suitable chemicals. Robust stainless steel AISI 316 construction offers excellent strength and durability.

● COMMON APPLICATIONS

- Light machining oils
- Transmission fluid

● TECHNICAL SPECIFICATIONS

MODEL	LDPTSE	LDPTSA
Motor type	Electric motor	Air motor
Pump tube type	Stainless steel AISI 316	Stainless steel AISI 316
Pump length	1000 mm (39") - standard 1200 mm (47") - optional	1000 mm (39") - standard 1200 mm (47") - optional
Pump design	Sealless centrifugal	Sealless centrifugal
Wetted parts	S.S AISI 316, Carbon filled PTFE	
Discharge options	25 mm (1") / 19 mm (3/4") hose barb	
Hose	will be supplied as optional at extra cost	
Dispensing nozzle	will be supplied as optional at extra cost	
Shaft	Stainless steel AISI 316	Stainless steel AISI 316
Barrel adapter	Polypropylene	Polypropylene
Storage bracket	Steel	Steel
Max. flow rate	69 l/min (18 USgpm) based on water	
Max. pressure	19.3 mtrs. (63 ft)	19.3 mtrs. (63 ft)
Max. temperature	+80°C (+175°F)	+80°C (+175°F)
Max. viscosity	750 cps	750 cps
Max. specific gravity	1.8	1.8



PUMP SET 3 - PP (POLYPROPYLENE)

● DRUM PUMPS FOR ACIDS & ALKALIS

Lubi's Polypropylene pump set is engineered for transferring a various types of corrosive liquids. Robust Polypropylene construction ensures chemical resistance against light to slightly aggressive chemicals.

● COMMON APPLICATIONS

- Acetic Acid
- Sulfuric Acid
- Hydrochloric Acid (20%)
- Nitric Acid (20%)

● TECHNICAL SPECIFICATIONS

MODEL	LDPTPE	LDPTPA
Motor type	Electric motor	Air motor
Pump tube type	Polypropylene	Polypropylene
Pump length	1000 mm (39") - standard 1200 mm (47") - optional	1000 mm (39") - standard 1200 mm (47") - optional
Pump design	Sealless centrifugal	Sealless centrifugal
Wetted parts	Polypropylene, Carbon filled PTFE, Hastelloy	
Discharge options	25 mm (1") / 19 mm (3/4") hose barb	
Hose	will be supplied as optional at extra cost	
Dispensing nozzle	will be supplied as optional at extra cost	
Shaft	Hastelloy	Hastelloy
Barrel adapter	Polypropylene	Polypropylene
Storage bracket	Steel	Steel
Max. flow rate	69 l/min (18 USgpm) based on water	
Max. pressure	19.3 mtrs. (63 ft)	19.3 mtrs. (63 ft)
Max. temperature	+55°C (+130°F)	+55°C (+130°F)
Max. viscosity	750 cps	750 cps
Max. specific gravity	1.8	1.8



PUMP SET 2 - CPVC (CHLORINATED POLYVINYL CHLORIDE)

● DRUM PUMPS FOR WATER TREATMENT CHEMICALS

Lubi's CPVC pump set is engineered for transferring corrosive chemicals commonly used in the water treatment industry. Robust CPVC construction offers excellent durability and chemical resistance.

● COMMON APPLICATIONS

- Sodium Hypochlorite
- Calcium Chloride
- Calcium Hydroxide
- Potassium Hydroxide
- Sodium Bromide.

● TECHNICAL SPECIFICATIONS

MODEL	LDPTCE	LDPTCA
Motor type	Electric motor	Air motor
Pump tube type	CPVC	CPVC
Pump length	1000 mm (39") - standard 1200 mm (47") - optional	1000 mm (39") - standard 1200 mm (47") - optional
Pump design	Sealless centrifugal	Sealless centrifugal
Wetted parts	CPVC, Carbon filled PTFE, Hastelloy	
Discharge options	25 mm (1") / 19 mm (3/4") hose barb	
Hose	will be supplied as optional at extra cost	
Dispensing nozzle	will be supplied as optional at extra cost	
Shaft	Hastelloy	Hastelloy
Barrel adapter	Polypropylene	Polypropylene
Storage bracket	Steel	Steel
Max. flow rate	69 l/min (18 USgpm) based on water	
Max. pressure	19.3 mtrs. (63 ft)	19.3 mtrs. (63 ft)
Max. temperature	+88°C (+190°F)	+88°C (+190°F)
Max. viscosity	750 cps	750 cps
Max. specific gravity	1.8	1.8



PUMP SET 4 - PVDF (POLYVINYLIDENE FLUORIDE) KYNAR®

● DRUM PUMPS FOR CONCENTRATED ACIDS AND ALKALIS

Lubi's PVDF pump set is engineered for transferring highly concentrated and aggressive liquids. Robust PVDF construction offers excellent durability and chemical resistance.

● COMMON APPLICATIONS

- Concentrated Nitric Acid
- Sulphuric Acid-66 Baume
- Sodium Hypochlorite
- Hydrofluoric Acid
- Propionic Acid
- Stearic Acid

● TECHNICAL SPECIFICATIONS

MODEL	LDPTKE	LDPTKA
Motor type	Electric motor	Air motor
Pump tube type	PVDF	PVDF
Pump length	1000 mm (39") - standard 1200 mm (47") - optional	1000 mm (39") - standard 1200 mm (47") - optional
Pump design	Sealless centrifugal	Sealless centrifugal
Wetted parts	PVDF, Carbon filled PTFE, Hastelloy	
Discharge options	25 mm (1") / 19 mm (3/4") hose barb	
Hose	will be supplied as optional at extra cost	
Dispensing nozzle	will be supplied as optional at extra cost	
Shaft	Hastelloy	Hastelloy
Barrel adapter	Polypropylene	Polypropylene
Storage bracket	Steel	Steel
Max. flow rate	69 l/min (18 USgpm) based on water	
Max. pressure	19.3 mtrs. (63 ft)	19.3 mtrs. (63 ft)
Max. temperature	+80°C (+175°F)	+80°C (+175°F)
Max. viscosity	750 cps	750 cps
Max. specific gravity	1.8	1.8



LDPHN, LDPHP - DRUM HAND PUMPS



LDPPP - AIR-DRIVEN PISTON DRUM PUMPS



● APPLICATIONS

LDPHN & LDPHP pumps are used for pumping out liquids from drums, barrels and totes, etc. These are widely used by different sectors such as:

- Chemical plants
- Food processing plants
- Packaging plants
- Plating
- Semiconductor
- Waste water treatment
- Pharmaceutical
- Laboratories
- Automotive industries
- Agriculture.

● FEATURES AND BENEFITS

- High quality components
- Light weight, portable
- Easy to install, user friendly operation
- Safe chemical transfer, an alternative to manual - minimizes danger of spills, vapors, burns, health, environmental, liability concerns
- Delivers liquids on both forward and reverse strokes
- Ergonomically designed handle
- Two position pump handle can be mounted above or below the pump
- Tamper proof handle can be padlocked to protect against unauthorized use
- Self lubricating Teflon piston ring operates wet or dry for long life
- Supplied with bung adapter suitable for MS/Plastic drum
- Few parts - maintenance friendly.

● TECHNICAL SPECIFICATIONS

MODEL	LDPHN - Nylon	LDPHP - Polypropylene
Type	Double-action piston hand operated pump	Double-action piston hand operated pump
Inlet	1" NPT	1" NPT
Outlet	3/4" NPT	3/4" NPT
Spout	Nylon	Polypropylene
Nozzle	Nylon	Polypropylene
Pump housing	Nylon	Polypropylene
Piston	Nylon/Viton/Teflon	Polypropylene/Viton/Teflon
Piston rod	S.S AISI 316	S.S AISI 316
Valves	Nylon/Viton	Polypropylene/Viton
Vacuum breaker	Viton	Viton
Cover plate	Nylon	Polypropylene
Fastener (external)	Stainless Steel	Stainless Steel
Max. flow rate	3.8 litre/6 cycles (0.650 litre/stroke)	3.8 litre/6 cycles (0.650 litre/stroke)
Max. temp. (water)	54°C (130°F)	54°C (130°F)
pH range	7 to 9	4 to 11
Suction tube	2-Piece Nylon (std.)*	2-Piece Polypropylene (std.)*
Discharge hose	2.4 mtrs (8 ft) Nylon	2.4 mtrs (8 ft) Polypropylene
Mounting	2" Nylon bung adapter	2" Polypropylene bung adapter
For use on	208 lit. (55 gal.) drums	208 lit. (55 gal.) drums
Gasket	Cork/Nitrile	Cork/Nitrile

* 3 or more pieces are also available as on request at additional cost.

● APPLICATIONS

LDPPP pumps are used for pumping out liquids from drums, barrels, large storage vessels, stainless steel tanks, totes, etc. These are widely used by different sectors such as:

- Chemical plants
- Food processing plants
- Packaging plants
- Plating
- Semiconductor
- Waste water treatment
- Pharmaceutical
- Laboratories
- Automotive industries
- Agriculture.

● FEATURES AND BENEFITS

- High quality components
- Light weight, portable
- Safe chemical transfer, an alternative to manual - minimizes danger of spills, vapors, burns, health, environmental, liability concerns
- Operates at very low pressure. Starting air pressure is 2 kgf/cm²
- Provided with air flow control valve.
- Supplied with bung adapter suitable for MS/Plastic drum
- Ideal for low to medium viscous liquids
- Stainless steel construction with Teflon seals
- Few parts - maintenance friendly
- Long lasting
- Pumps liquids with viscosity up to 3500 cps.

● TECHNICAL SPECIFICATIONS

MODEL	LDPPP
Type	Air-operated, piston reciprocating, liquid transfer drum pump
Pressure ratio	1:1
Max. air pressure	9.8 bar (142 psi)
Min. air pressure	2 bar (28.5 psi)
Air consumption	12.36 CFM (350 l/min)
Burst pressure	Min. 69 bar (1000 psi)
Air inlet size	1/4"
Fluid outlet size	3/4" NPT
Drum adapter	2"
Pump body	Stainless steel
Seal	Teflon
Wetted parts	Stainless steel, Nickel-plated steel, Nitrile rubber
Suction tube	950 mm (37 1/2") long
For use on	208 lit. (55 gal.) drums
Max. flow rate	38 l/min (10 USgpm) based on water
Max. fluid pressure	9.8 bar (142 psi)
Max. temperature	+60°C (140°F)
Max. viscosity	3500 cps

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Product Improvement is a continuous process at 'LUBI'. The data given in this publication is therefore subject to revision.

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