

Technical Specifications

LD Series 3:1, 5:1 and 50:1 Air-Powered Pumps



LD Series 3:1
Oil Pump



LD Series 5:1
Oil Pump



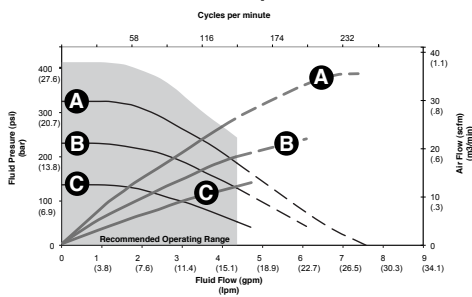
LD Series 50:1
Grease Pump



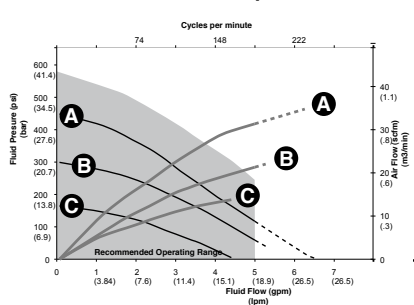
	3:1 LD Oil Pump	5:1 LD Oil Pump	50:1 LD Grease Pump
Maximum Fluid Working Pressure	450 psi (31 bar, 3.10MPa)	750 psi (51.7 bar, 5.17MPa)	7500 psi (517 bar, 51.7 MPa)
Fluid Pressure Ratio	3:1	5:1	50:1
Suction Lift (feet of oil)	10	10	—
Air Operation Range	20 to 150 psi (1.37 to 10.3 bar)	20 to 150 psi (1.37 to 10.3 bar)	20 to 150 psi (1.37 to 10.3 bar)
Recommended Air Pressure (for optimum life)	<125 psi (8.6 bar, 0.86 MPa)	<125 psi (8.6 bar, 0.86 MPa)	<125 psi (8.6 bar, 0.86 MPa)
Max Recommended Pump Speed	120 cycles per minute	180 cycle per minute	120 cycle per minute
Cycles Per Gallon/pound (l/kg)	29 cycles per gallon (7 cycles per liter)	37 cycles per gallon (10 cycles per liter)	47 cycles per pound (103 cycles per kg)
Recommended Pump Speed (for maximum life)	75 cycles per minute or lower	75 cycles per minute or lower	60 cycles per minute or lower
Wetted Parts	Zinc plated carbon, steel, aluminum, nitrile, polyurethane, nickel plated aluminum		Steel, brass, nitrile rubber, polyurethane, UHMWPE, acetal
Sound Pressure Level	72.9 dB(a)	72.9 dB(a)	72.9 dB(a)
Sound Power Level	82 dB(a)	82 dB(a)	82 dB(a)
Approximate Weight	7 pounds (3.2 kg)	7.7 pounds (3.5 kg)	35 pound drum—11.2 pounds (5.1 kg), 120 pound drum—15.0 pounds (6.8 kg), 400 pound drum—17.0 pounds (7.7 kg)
Air Inlet	1/4"	1/4"	1/4"
Fluid Inlet	1"	1"	Priming Piston
Fluid Outlet	1/2"	1/2"	1/4"
Free Flow*	9gpm	7.8gpm	5lb/min

*Free flow at 150psi air inlet pressure, using SAE 20 oil at 70° F

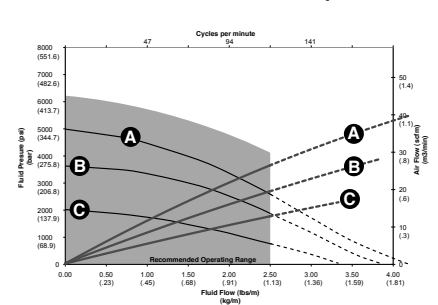
LD 3:1 Pump



LD 5:1 Pump



LD 50:1 Pump



Tested with ISO 46 Hydraulic Oil. Inlet air pressures: A = 100 psi (6.9 bar) B = 70 psi (4.8 bar) C = 40 psi (2.8 bar).

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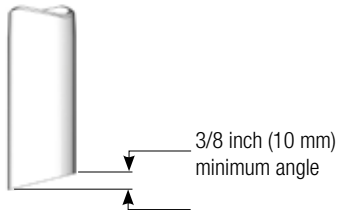
LD Series 3:1, 5:1 and 50:1 Air-Powered Pumps



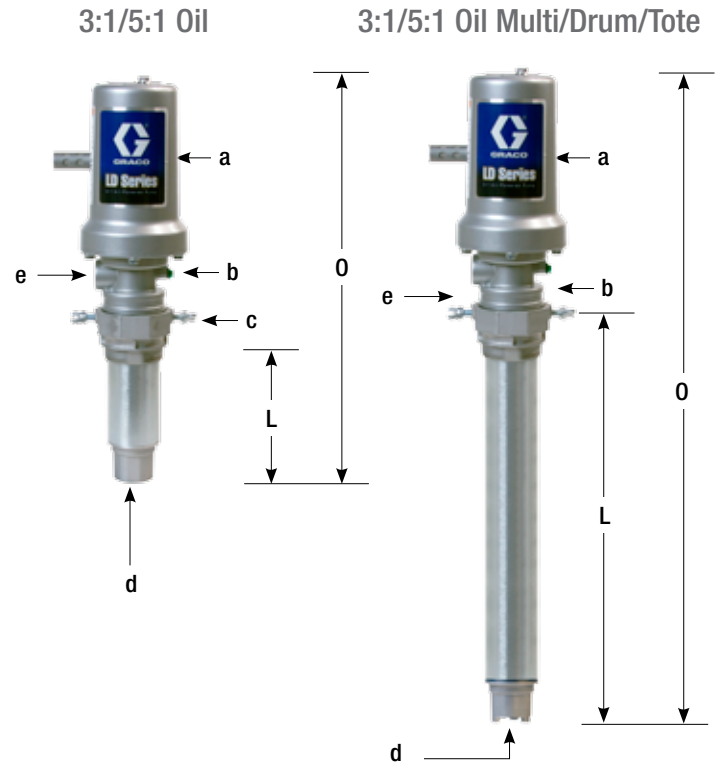
Dimensions

Model	L Length	O Overall Length
Universal Pump Only	6.9 in (175 mm)	16 in (406 mm)
Multi*	42.4 in (1076 mm)	51.5 in (1307 mm)
Drum	35.7 in (907 mm)	44.8 in (1138 mm)
Tote	42.8 in (1087 mm)	51.9 in (1318 mm)

- a = 1/4 inch air inlet
- b = ground screw
- c = 2 inch npt bung adapter
- d = 1 inch fluid inlet
- e = 1/2 inch fluid outlet



* Multi down tube is angle cut to the desired length as required



Model	L Length	O Overall Length
35 Pound Drum	14.5 in. 370 mm	23.6 in. 600 mm
120 Pound Drum	28.1 in. 715 mm	37.2 in. 945 mm
400 Pound Drum	36 in. 915 mm	45 in. 1145 mm

- a = 1/4 inch air inlet
- b = ground screw
- c = priming piston
- d = 1/4 inch fluid outlet

