

# **Balcrank**

## **NEW Lion 450 & 600 Pumps**

designed for high volume heavy-duty oil and grease distribution systems



# NEW Lion 450 & 600 Oil Pumps

Introducing the new Lion pumps from Balcrank. The Lion 450 & 600 pumps are designed for high volume heavy-duty oil and grease distribution systems.

The oil versions provide high volume and high pressures from 17 to 30 GPM for large maintenance shops, industrial plants with requirements for bulk filling of tanks, large vehicles, machines and production lines.

Grease can be delivered in volumes from 16-88 lbs. per minute. Ratio's vary from 12:1 up to 80:1 for large piped systems, high volume bulk transfer and skid applications where ultra high pressure pumps are required.

These new Lion pumps are double acting positive displacement piston pumps designed for extreme conditions where reliability and durability are essential day in and day out.



**Lion 450 3:1**  
1430-001 stub



**Lion 450 6:1**  
1430-002 stub



**Lion 450 10:1**  
1430-003 stub  
1430-004 55 gal drum



**Lion 600 6:1**  
1430-005 stub



**Lion 600 12:1**  
1430-006 stub

## Technical Data

<b>Operating air pressure</b>	20 to 170 psi (1.5 to 12 bar)	20 to 170 psi (1.5 to 12 bar)	20 to 170 psi (1.5 to 12 bar)	20 to 170 psi (1.5 to 12 bar)	20 to 170 psi (1.5 to 12 bar)
<b>Air Consumption <sup>(1)</sup></b>	28 cfm (800 NI/min)	29 cfm (830 NI/min)	30 cfm (850 NI/min)	39 cfm (1.100 NI/min)	41 cfm (1.150 NI/min)
<b>Max fluid outlet pressure</b>	510 psi (36 bar)	1,020 psi (72 bar)	1,700 psi (120 bar)	1,020 psi (72 bar)	2,040 psi (144 bar)
<b>Air motor effective dia.</b>	4 1/2" (115 mm)	4 1/2" (115 mm)	4 1/2" (115 mm)	6" (150 mm)	6" (150 mm)
<b>Air motor stroke</b>	4" (100 mm)	4" (100 mm)	4" (100 mm)	4" (100 mm)	4" (100 mm)
<b>Delivery at 80 cpm</b>	12 gal/min (45 l/min)	7 gal/min (25 l/min)	4 gal/min (15 l/min)	--	--
<b>Delivery at 60 cpm</b>	--	--	--	9 gal/min (35 l/min)	5 gal/min (20 l/min)
<b>Max free flow delivery</b>	32 gal/min (120 l/min)	25 gal/min (95 l/min)	17 gal/min (65 l/min)	26 gal/min (100 l/min)	17 gal/min (65 l/min)
<b>Air inlet</b>	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)
<b>Fluid inlet</b>	1 1/2" NPT (F)	1 1/2" NPT (F)	1 1/2" NPT (F)	1 1/2" NPT (F)	1 1/2" NPT (F)
<b>Fluid outlet</b>	3/4" NPT (F)	3/4" NPT (F)	3/4" NPT (F)	3/4" NPT (F)	3/4" NPT (F)
<b>Wetted materials</b>	Cast iron / Nickel / Aluminium / Steel / Polyurethane / NBR	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR	Cast iron / Aluminium / Nickel / Steel / Polyurethane / NBR	Cast iron / Hard chromed steel / Steel / Polyurethane / NBR
<b>Noise level <sup>(2)</sup></b>	80 dB	80 dB	80 dB	80 dB	80 dB

(1) Maximum air consumption with 75 psi (5 bar) air inlet pressure and 80 cpm.

(2) Maximum noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.

# NEW Lion 450 & 600 Grease Pumps



**Lion 450 25:1**  
1450-001 400 lb drum



**Lion 450 40:1**  
1450-002 400 lb drum  
1450-003 120 lb drum  
1450-004 bulk tote



**Lion 450 70:1**  
1450-005 400 lb drum  
1450-006 120 lb drum  
1450-007 bulk tote



**Lion 600 12:1**  
1450-010 bulk tote



**Lion 600 80:1**  
1450-008 400 lb drum  
1450-009 120 lb drum

## Technical Data

<b>Continuous duty flow rate</b>	13 lb/min (6 kg/min)	8 lb/min (3.5 kg/min)	5 lb/min (2 kg/min)	33 lb/min (15 kg/min)	6 lb/min (2.5 kg/min)
<b>Maximum free flow</b>	35 lb/min (16 kg/min)	24 lb/min (11 kg/min)	17 lb/min (7.5 kg/min)	88 lb/min (40 kg/min)	18 lb/min (8 kg/min)
<b>Operating air pressure</b>	20 - 200 psi (1.5 - 14 bar)	20 - 200 psi (1.5 - 14 bar)	20 - 100 psi (1.5 - 7 bar)	20 - 100 psi (1.5 - 7 bar)	20 - 100 psi (1.5 - 7 bar)
<b>Maximum outlet pressure</b>	5,000 psi (350 bar)	8,000 psi (560 bar)	7,000 psi (490 bar)	1,200 psi (84 bar)	8,000 psi (560 bar)
<b>Air motor effective dia.</b>	4.5" (115 mm)	4.5" (115 mm)	4.5" (115 mm)	6" (150 mm)	6" (150 mm)
<b>Air motor stroke</b>	4" (100 mm)	4" (100 mm)	4" (100 mm)	4" (100 mm)	4" (100 mm)
<b>Air consumption <sup>(1)</sup></b>	47 cfm (1.340 NI/min)	26.5 cfm (750 NI/min)	32.6 cfm (925 NI/min)	39 cfm (1.100 NI/min)	35 cfm (1.000 NI/min)
<b>Air inlet</b>	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)
<b>Fluid outlet</b>	1/2" NPT (F)	1/2" NPT (F)	1/2" NPT (F)	1" NPT (F)	1/2" NPT (F)
<b>Wetted materials</b>	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR / PTFE	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR / PTFE	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR / PTFE / Polyurethane	Cast Iron / Steel / Hard chromed steel / UHMWPE / NBR / PTFE
<b>Noise level <sup>(2)</sup></b>	80 dB	80 dB	80 dB	80 dB	80 dB

(1) Air consumption at 75 psi (5 bar) air pressure, NLGI-0 grease at 68°F (20°C) and 80 cpm.

(2) Noise level measured at 3' (1 m) from the pump, 100 psi (7 bar) air pressure and free delivery.



4450-002  
Lift, Pump, Air Operated  
Pump not included, choose from grease models above.



4450-003  
Inductor, Gravity & Pump Lift  
Pump not included, choose from grease models above.



4450-004  
Inductor, Double Post, Air Operated  
Pump not included, choose from grease models above.

## Customer Support

800-747-5300 or 828-645-4261

(Mon. - Fri., 8 am - 5 p.m. ET)

- Order entry
- Product availability and information
- Pricing
- Shipping dates and delivery information
- Return Merchandise Authorization

## Technical Support

800-747-5300 or 828-645-4261

(Mon. - Fri., 8 am - 5 p.m. ET)

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## Order by fax

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- Free-up phone lines
- Order confirmed next business day by fax or e-mail

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