

Grease Pumps

Grease Pumps



Heavy-Duty High Flow/Pressure Pumps

High flow double acting pumps with high pressure delivery for use in lubrication systems that require a combination of high flow and pressure delivery.

70:1 pressure ratio pumps are for use in applications requiring extra pressure output due to cold temperatures or when low air pressure could limit pump performance.

Both pumps can be used with grease up to NLGI-2 viscosity. They are available for cover mount to 120 lb and 400 lb open drums and for horizontal and side mount on grease totes, bags and tanks.

4 1/2" air motor

Mechanically actuated air valve with only three moving parts and no springs. Large effective area for maximum pumping power

Efficient air exhaust

No ice forming, no stalling pump operation

Long life packings

Anti-corrosion, hardened plunger and cartridge packings assembly designed for low friction.

High quality materials

Low friction polyurethane seals, hard chromed steel fluid plunger and steel valves for fewer repairs

Ductile iron pump body

For superior properties

Pump Inlet Valve

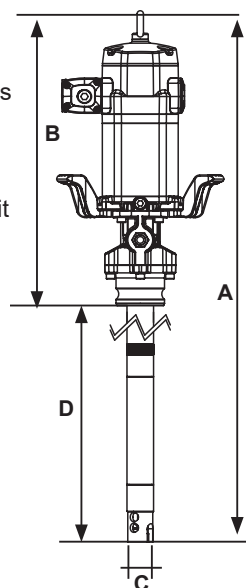
Chop-check priming valve, assists the entry of heavy and sticky grease

MARKETS SERVED

- Heavy-duty service shops
- Fleet service facilities
- Lube trucks
- Mining and construction
- Railroad and mass transit
- Industrial
- Marine

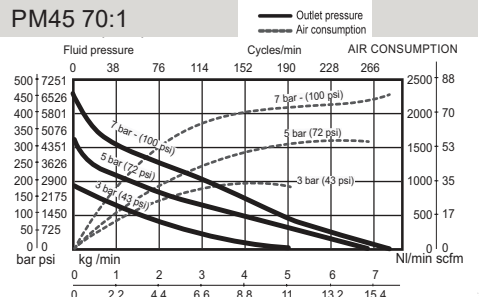
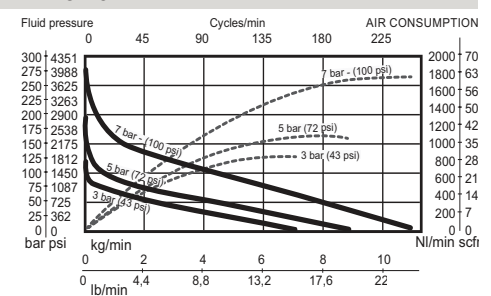
FLUIDS HANDLED

- Grease up to NLGI-2



PM45 40:1			
IN (MM)	531 411	531 421	531 431
A	53 1/4" (1.357)	45 1/4" (1.152)	38 3/4" (992)
B	19 3/4" (502)	19 3/4" (502)	19 3/4" (502)
C	2" (50)	2" (50)	2" (50)
D	33 1/2" (855)	25 1/2" (650)	19" (490)

PM45 70:1			
IN (MM)	531 711	531 721	531 731
A	53 1/4" (1.357)	45 1/4" (1.152)	39" (992)
B	19 3/4" (502)	19 3/4" (502)	19 3/4" (502)
C	2" (50)	2" (50)	2" (50)
D	33 1/2" (855)	25 1/2" (650)	19 1/4" (490)



TECHNICAL SPECIFICATIONS

	40:1	70:1
Pump Ratio	40:1	70:1
Air pressure operating range	29 - 200 psi (2 - 14 bar)	29 -100 psi (2 - 7 bar)
Air consumption ⁽¹⁾	26.5 scfm (750 Nl/min)	33 scfm (925 Nl/min)
Maximum outlet pressure	6,000 psi (412 bar)	7,000 psi (490 bar)
Air motor effective diameter	4 1/2" (115 mm)	4 1/2" (115 mm)
Air motor stroke	4" (100 mm)	4" (100 mm)
Continuous duty flow rate	7.5 lb/min (3.5 kg/min)	4.5 lb/min (2 kg/min)
Maximum free flow	22 lb/min (11 kg/min)	16.5 lb/min (7.5 kg/min)
Air inlet	1/2" NPT(F)	1/2" NPT(F)
Fluid outlet	1/2" NPT(F)	1/2" NPT(F)
Wetted materials	Cast Iron / Steel / Hard chromed steel / UHMW PE / NBR / PTFE	Cast Iron / Steel / Hard chromed steel / UHMW PE / NBR / PTFE
Noise level	Pump noise level meets OSHA requirements at all recommended operating air pressures	
Manual	853 814	853 815

⁽¹⁾ Air consumption at 70 psi (5 bar) air pressure, NLGI-2 grease at 68 °F (20 °C) and 80 cpm.

ORDER INFORMATION

531 421	PM45 40:1 120 lb keg, flange mounted
531 411	PM45 40:1 400 lb drum, flange mounted
531 431*	PM45 40:1 Bulk Tote
531 721	PM45 70:1 120 lb keg, flange mounted
531 711	PM45 70:1 400 lb drum, flange mounted
531 731*	PM45 70:1 Bulk Tote

* Includes adaptor 753 110 to fit a 3" cam-lock connector for use with totes, grease bags and tanks.

Hose Kit High pressure hose connection kit for PumpMaster 45 40:1 & 70:1

534 103		
	LP Hose 1/2" x 5'	823
	HP Hose 3/8" x 5'	884
	90° Swivel 1/2" x 1/2"	1981
	Quick Air Coupler 1/2" (F)	947F08
	Quick Air Nipple 1/2" (M)	947M08
	Swivel 1/2" (M/F)	1980

Drum Covers

	418 017	120 lb Keg cover PM45/60
	418 026	400 lb Heavy-duty drum cover PM45/60
	753 110	3" Cam adaptor PM45

Follower Plates

	417 011	120 lb Heavy-duty follower plate PM45/60
	417 009	400 lb Heavy-duty follower plate PM45/60