

PowerMaster and PileDriver pumps

PowerMaster III

Features

- State-of-the-art, fully pneumatic air motors 3 to 4 in. (76,2 to 101,6 mm).
- Full 6 in. (152,4 mm) stroke.
- Modular design for easy repair.
- Pump tubes offer ratios and outputs to fit any application.
- Available to fit any drum or pail size, or bulk tanks.
- Offered in carbon steel, 316 stainless steel or hard chrome plated.
- Full line of priming equipment and mounting devices.

Series III air motors

- Full pneumatic operation for longer life and durability. Only five moving parts.
- Total modular design for ease of service and maintenance.
- Quiet operation.
 - Meets or exceeds OSHA requirements at all recommended operation air pressures.
- Interchangeable with all PowerMaster III pump tubes.
- Acceptability of pump monitors and controls, such as AirBrake.

Pump tubes

Ball foot design

- For light- to medium-viscosity, flowable fluids and materials.
- Three styles
 - stub for bulk mounting
 - 55 gallon (208 liter)
 - 16 gallon (60 liter) drum.
- Ratios from 6:1 to 12:1, outputs to 3.9 gal./min. (14,6 liter/min.).
- Complete interchangeability with all series III air motors.
- Exclusive patented, "leakless" gland assembly kit is available as an accessory.

Shovel foot design, plunger and bushing style

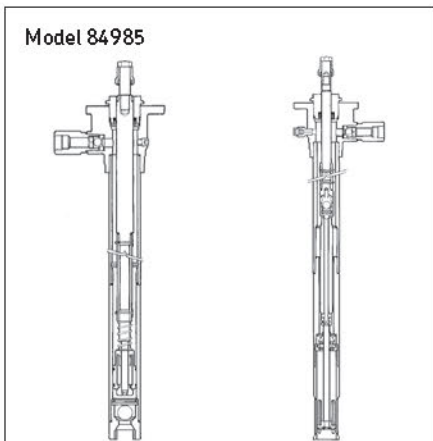
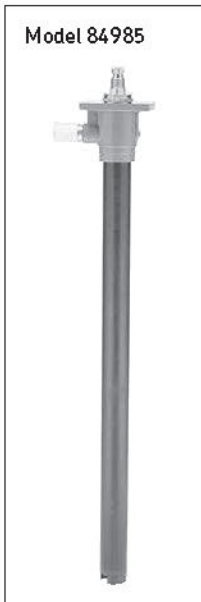
- For medium- to high-viscosity, non-pourable materials, such as grease.
- Available in 400 or 120 lb. (205 or 60 liter) drum lengths or mounts on primer for high-viscosity materials.
- Full range of ratios: 10:1 through 75:1 for all applications.
- Selected fit, hardened steel plunger and bushing is particularly well suited to viscous lubricants.
- Complete interchangeability with all series III air motors.
- Exclusive patented, leakless gland assembly kit (to protect gland seal – the only seal in pump tube) is available as an accessory.

Shovel foot design, packed piston-style

- For medium- to high-viscosity, non-pourable materials.
- Furnished with exclusive, patented, leakless gland assembly.
- Available in 55 or 16 gallon (208 or 60 liter) drum lengths. Also suitable for mounting on priming equipment or standpipe mounting for bulk delivery.
- Complete interchangeability with all series III air motors.
- Full range of ratios 10:1 through 32:1.

PileDriver III flatcheck design

- Large ports reduce resistance for improved flow in real world applications.
- 6 in. (152,4 mm) stroke lets the pump work easier to deliver the same or more volume.
- PileDriver III pump tube and PowerMaster III air motor based design is durable, dependable and easy to maintain over the life of the pump.
- 2.5 in. NPTF (f) and 3 in. NPTF (m) inlet offers flexible mounting options.

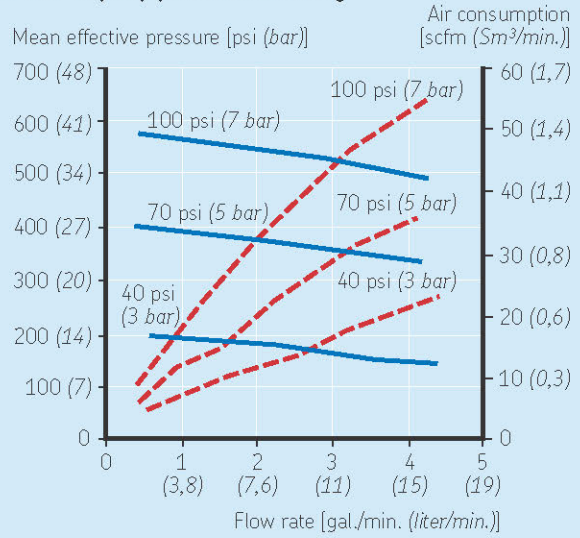


PowerMaster III air-operated oil pump specifications

6:1 3 in. oil pump technical data

Pumping ratio	6:1
Air pressure	30 to 200 psi (2 to 14 bar)
Maximum output pressure	1 200 psi (84 bar)
Air inlet	1/2 NPTF
Material outlet	3/4 NPTF
Material inlet	Stub 2 NPTF
Airmotor bore diameter	3 in. (76 mm)
Stroke	6 in. (152 mm)
Output per cycle	11.9 cu. in. (195 cm ³)
Cycles	20/gallon (5/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	12.3 gallon/min. (46,6 liter/min.)
Overall length (stub)	36 in. (914 mm)
Overall length (55 gal./400 lb./200 liter)	60 7/8 in. (1 546 mm)

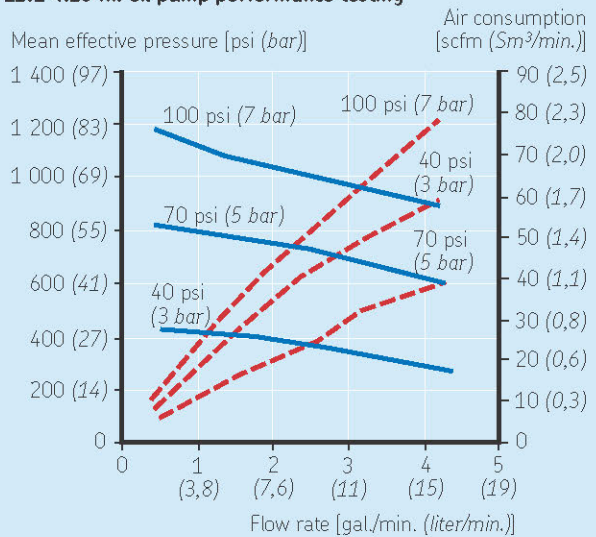
6:1 3 in. oil pump performance testing



12:1 4.25 in. oil pump technical data

Pumping ratio	12:1
Air pressure	30 to 200 psi (2 to 14 bar)
Maximum output pressure	2 400 psi (166 bar)
Air inlet	1/2 NPTF
Material outlet	3/4 NPTF
Material inlet	Stub 2 NPTF
Airmotor bore diameter	4.25 in. (108 mm)
Stroke	6 in. (152 mm)
Output per cycle	11.9 cu. in. (195 cm ³)
Cycles	20/gallon (5/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	12.3 gallon/min. (46,6 liter/min.)
Overall length (stub)	36 in. (914 mm)
Overall length (55 gal./400 lb./200 liter)	60 7/8 in. (1 546 mm)

12:1 4.25 in. oil pump performance testing

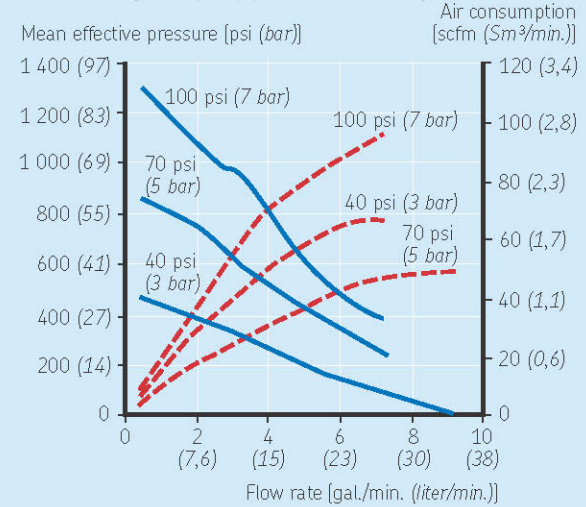


PowerMaster III grease pump specifications

12:1 4.25 in. grease pump technical data

Pumping ratio	12:1
Air pressure	200 psi (14 bar)
Maximum output pressure	2 400 psi (166 bar)
Air inlet	1/2 NPTF
Material outlet	3/4 NPTF
Airmotor bore diameter	4.25 in. (108 mm)
Stroke	6 in. (152 mm)
Output per cycle	10.9 cu. in. (179 cm ³)
Cycles	21/gallon (5.5/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	3.5 gallon/min. (13,2 liter/min.)
Overall length (55 gal./400 lb./200 liter)	48 3/8 in. (1 229 mm)
Overall length (16 gal./120 lb.)	62 1/8 in. (1 578 mm)

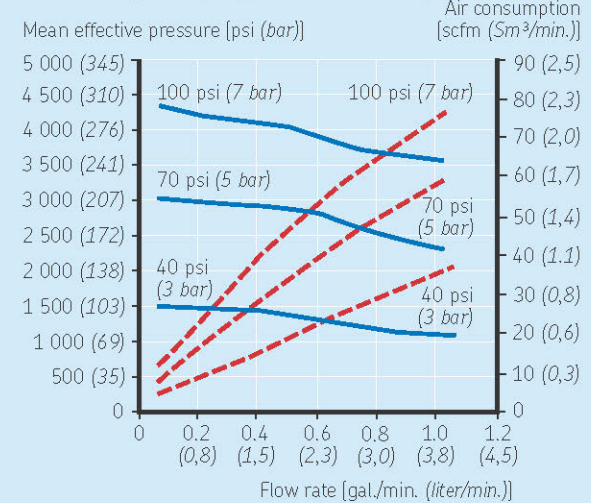
12:1 4.25 in. grease pump performance testing



50:1 4.25 in. grease pump technical data

Pumping ratio	50:1
Air pressure	150 psi (10 bar)
Maximum output pressure	7 500 psi (517 bar)
Air inlet	1/2 NPTF
Material outlet	3/4 NPTF
Airmotor bore diameter	4.25 in. (108 mm)
Stroke	6 in. (152 mm)
Output per cycle	3 cu. in. (49 cm ³)
Cycles	78/gallon (20/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	1 gallon/min. (3,7 liter/min.)
Overall length (55 gal./400 lb./200 liter)	62 1/8 in. (1 578 mm)
Overall length (16 gal./120 lb.)	55 1/2 in. (1 410 mm)

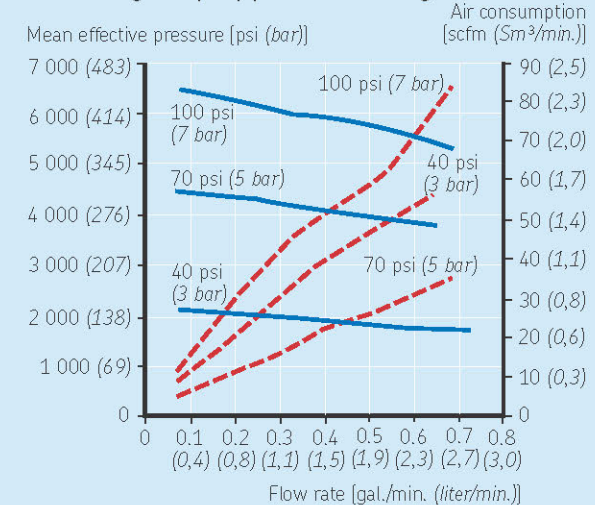
50:1 4.25 in. grease pump performance testing



75:1 4.25 in. grease pump technical data

Pumping ratio	75:1
Air pressure	100 psi (7 bar)
Maximum output pressure	7 500 psi (517 bar)
Air inlet	1/2 NPTF
Material outlet	3/4 NPTF
Airmotor bore diameter	4.25 in. (108 mm)
Stroke	6 in. (152 mm)
Output per cycle	2.1 cu. in. (34 cm ³)
Cycles	111/gallon (29/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	0.7 gallon/min. (2,6 liter/min.)
Overall length (55 gal./400 lb./200 liter)	62 1/8 in. (1 578 mm)
Overall length (16 gal./120 lb.)	55 1/2 in. (1 410 mm)

75:1 4.25 in. grease pump performance testing

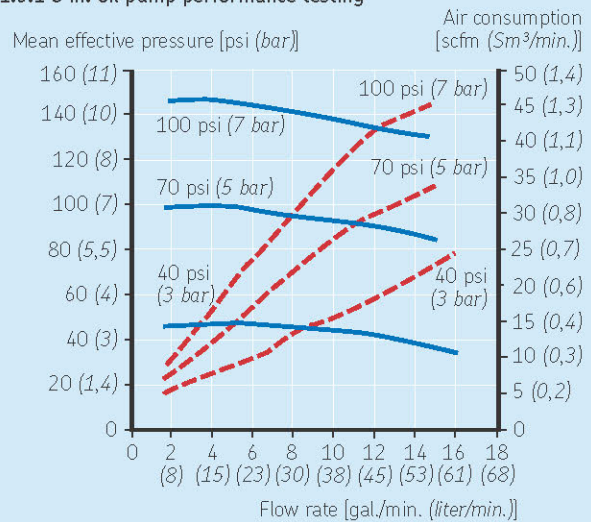


PileDriver III oil pump specifications

1.5:1 3 in. oil pump technical data

Pumping ratio	1.5:1
Air pressure	30 to 200 psi (2 to 14 bar)
Maximum output pressure	300 psi (21 bar)
Air inlet	1/2 NPTF
Material outlet	1 1/2 NPTF
Material inlet	Stub 2.5 NPTF (f); 3 NPTF (m)
Airmotor bore diameter	3 in. (76 mm)
Stroke	6 in. (152 mm)
Output per cycle	46 cu. in. (754 cm ³)
Cycles	5/gallon (1/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	14.9 gallon/min. (56,5 liter/min.)
Overall length (stub)	44 1/8 in. (1 121 mm)

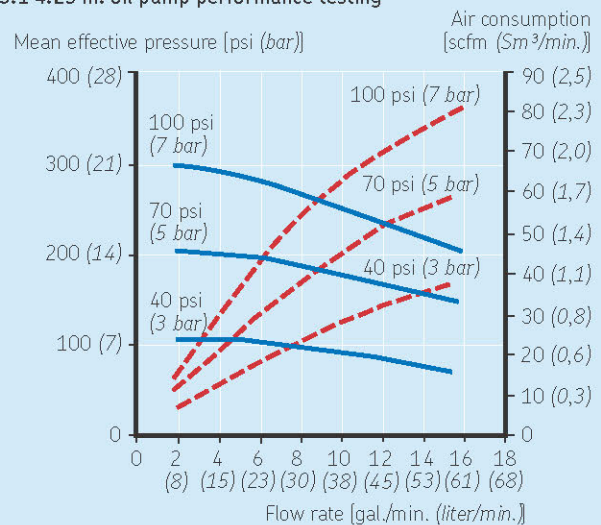
1.5:1 3 in. oil pump performance testing



3:1 4.25 in. oil pump technical data

Pumping ratio	3:1
Air pressure	30 to 200 psi (2 to 14 bar)
Maximum output pressure	600 psi (41 bar)
Air inlet	1/2 NPTF
Material outlet	1 1/2 NPTF
Material inlet	Stub 2.5 NPTF (f); 3 NPTF (m)
Airmotor bore diameter	4.25 in. (108 mm)
Stroke	6 in. (152 mm)
Output per cycle	46 cu. in. (754 cm ³)
Cycles	5/gallon (1/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	14.9 gallon/min. (56,5 liter/min.)
Overall length (stub)	44 1/8 in. (1 121 mm)

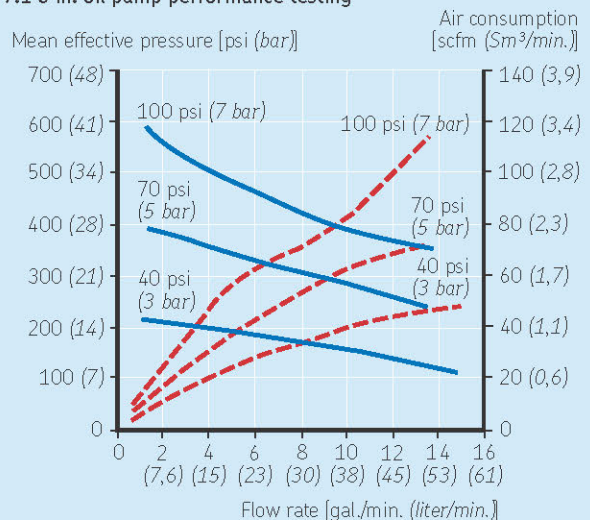
3:1 4.25 in. oil pump performance testing



7:1 6 in. oil pump technical data

Pumping ratio	7:1
Air pressure	30 to 100 psi (2 to 7 bar)
Maximum output pressure	700 psi (48 bar)
Air inlet	3/4 NPTF
Material outlet	1 1/2 NPTF
Material inlet	Stub 2.5 NPTF (f); 3 NPTF (m)
Airmotor bore diameter	6 in. (152 mm)
Stroke	6 in. (152 mm)
Output per cycle	46 cu. in. (754 cm ³)
Cycles	5/gallon (1/liter)
Wetted parts	Steel, brass, copper, polyurethane, nitrile
Free flow	14.9 gallon/min. (56,5 liter/min.)
Overall length (stub)	43 1/4 in. (1 099 mm)

7:1 6 in. oil pump performance testing



Model 2001



PowerMaster III air-operated oil pumps

Model 2001 12:1 55 gallon (208 liter) pump

Package includes:

- Powermaster III 4.25 in. air motor model 84804
- Powermaster III ball type pump tube 55 gallon (208 liter) model 84985
- Air coupler model 655008
- Air nipple model 653112

Model 12:1 stub pump

Package includes:

- Powermaster III 4.25 in. air motor model 84804
- Powermaster III stub pump tube model 84986
- Air coupler model 655008
- Air nipple model 653112

Model 2052 6:1 55 gallon (208 liter) pump

Package includes:

- Powermaster III 3 in. air motor model 84803
- Powermaster III ball type pump tube 55 gallon (208 liter) model 84985
- Air coupler model 655008
- Air nipple model 653112

Model 2051 6:1 stub pump

Package includes:

- Powermaster III 3 in. air motor model 84803
- Powermaster III stub pump tube model 84986
- Air coupler model 655008
- Air nipple model 653112

PowerMaster III grease pumps

Model 2004 75:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84997
- Air coupler model 655008
- Air nipple model 653112

Model 2008 75:1 120 lb. (54 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 120 lb. (54 kg) model 84998
- Air coupler model 655008
- Air nipple model 653112

Model 2010 50:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112

Model 2011 50:1 120 lb. (54 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 120 lb. (54 kg) model 84996
- Air coupler model 655008
- Air nipple model 653112

Model 2028 12:1 stub pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube stub model 84918
- Air coupler model 655008
- Air nipple model 653112

Model 2029 12:1 400 lb. (181 kg) pump

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84919
- Air coupler model 655008
- Air nipple model 653112

Model 2710 50:1 400 lb. (181 kg) inductor pump [103 in. (2,62 m) raised height]

Package includes:

- PowerMaster III 4.25 in. air motor model 84804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112
- Primer/follower assembly model 274680
 - 7 ft. (2,13 m) air hose model 273304
 - 7 ft. (2,13 m) grease hose model 274727
- Air regulator for hoist model 602003
- Air gauge model 274843

Model 2790 50:1 400 lb. (181 kg) inductor pump with air brake run away control [103 in. (2,62 m) raised height]

Package includes:

- PowerMaster III 4.25 in. air motor with air brake model 94804
- PowerMaster III shovel type pump tube 400 lb. (181 kg) model 84995
- Air coupler model 655008
- Air nipple model 653112
- Primer/follower assembly model 274680
 - 7 ft. (2,13 m) grease hose model 274727
- Air regulator for hoist model 602003
- Air gauge model 274843

Model 2710



NOTE:

The PMV pump series has been discontinued. Review PowerMaster models 2011, 2010 and 2710 as alternative to PMV 4-1/4" 50:1 stationary grease pumps and packages for many applications.

PowerMaster III special pump

Model	Air motor	Pump tube	Tube size		Tube type	Ratio	Size	Maximum air pressure		Maximum pressure		Free delivery	
–	–	–	lb.	kg	–	–	in.	psi	bar	psi	bar	gal./min.	liter/min.
2002		84991	400	181,4	Shovel	24:1	3/4	200	14	4 800	331	2.0	7.5