

PM Pump

PM45 & PM60 Air-operated, Oil

General

The PM Pump is a compressed air-operated reciprocating piston pump. This high capacity demand pump is compatible with engine oils, gear oils, hydraulic oils and automatic transmission fluids(ATF). They are suitable for large installations with long length piping supplying several fluid outlets simultaneously. This pump is mounted directly on wall bracket and 55 gallon drum.

Operation

This pump is self-priming. To prime it the first time, it is convenient to connect the air supply to the pump while keeping the outlet gun opened and slowly increase the air pressure by using a pressure regulator. Once oil starts flowing through all the outlets, the pump is primed. The pump starts to pump when an outlet valve is opened, for example a oil control gun.

Technical Data

Minimum Air Pressure	20 psi (1.5 bar)		
Maximum Air Pressure	180 psi (12 bar) (see How to Order Chart)		
Maximum Delivery	4.1, 5.19, 6.8, 9.1 & 13.3 gal /min (see How to Order Chart)		
Air Inlet Thread	1/2" NPT (F)		
Fluid Outlet Port	3/4" NPT (F)		
Fluid Inlet Port	3:1, 6:1, 10:1 & 12:1 Stub/ Universal supply oil pump:	1-1/2" NPT (F)	
	10: Long / 55 Gal with 2" Bung Adapter (M)	Plain with down tube	
Air Motor Effective Diameter	PM45:	4-1/2" (115mm)	
	PM60:	6" (150mm)	
Air Piston Stroke	4" (100mm)		



PM Pump P.N. F536011

How to Order

Description	Air Motor Size	Container Type	Pump Ratio	Max Air Pressure	Flow Rate*	Part #
PM45-03S ■	4-1/2"	Wall Bracket	3:1	180 psi	13.3 Gal/Min	F536331
PM45-06S ▲	4-1/2"	Wall Bracket	6:1	180 psi	6.8 Gal/Min	F536631
PM45-10S ◆	4-1/2"	Wall Bracket	10:1	180 psi	4.1 Gal/Min	F536031
PM45-10A ◆	4-1/2"	55 Gal 2" Bung	10:1	180 psi	4.1 Gal/Min	F536011
PM60-06A ▲	6"	Wall Bracket	6:1	180 psi	9.1 Gal/Min	F537631
PM60-12S ◆	6"	Wall Bracket	12:1	180 psi	5.19 Gal/Min	F537131

* Flow rates @ 100 psi (7 bar) air inlet pressure

- Very high flow, low pressure pump for large maintenance shops, up to 250 ft (75 m) pump distance. Facilities dispensing engine oil, gear oil, ATF and hydraulic fluid.
- ◆ Long distance, medium pressure pump for large maintenance shops, up to 750 ft (230 m) pump distance. Facilities dispensing engine oil, gear oil, ATF and hydraulic fluid.
- ▲ High flow, medium pressure pump for large maintenance shops, up to 500 ft (150 m) pump distance. Facilities dispensing engine oil, gear oil, ATF and hydraulic fluid.

When ordering, specify by name, description and part number, e.g. PM Pump, 55 Gal, Part #F536011.

See page 3-4 for accessories and dimensions.



PM Pump P.N. F536631

BIJUR DELIMON INTERNATIONAL

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Morrisville, NC 27560

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Installation

Mounting with Wall-Mounting Bracket (Recommended)

This pump can be installed three different ways:

A. Wall mounting (using wall bracket F360132).

Mount the wall bracket to the wall securely. Insert the pump through the wall bracket and attach it with screws (fig. 1).

NOTE:

F536011 can be installed directly on a drum or tank.

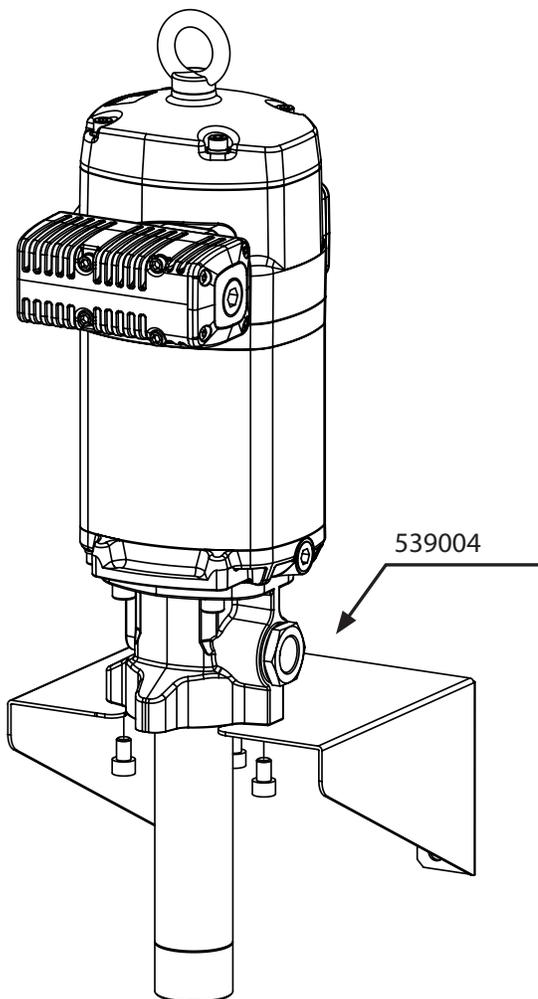


Fig. 1

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Typical Layout

The Figure 4 drawing below is a typical layout shown with all the recommended accessories for the pump to operate correctly. The compressed air supply must be fixed between 20 and 180 psi (1.5 and 12 bar). The recommended pressure is 80-100 psi (6-7 bar). An air shut-off valve must be installed to be able to close the compressed air line at the end of the day (if the air inlet is not closed and there is leakage in some point of the grease outlet circuit, the pump will start automatically, emptying the container).

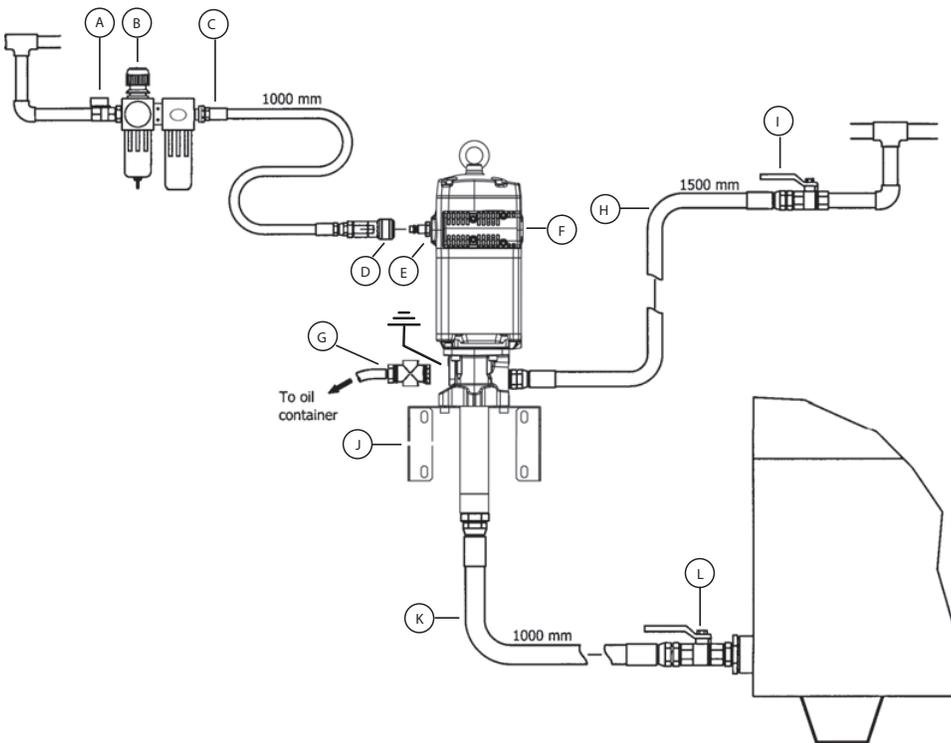


ATTENTION
Always keep fingers and hands away from moving parts. Do not dent or damage the riser tube.



ATTENTION
Do not ever lay the pump on the floor or allow the oil covered pump tube to become contaminated in order to prevent damage to the internal seals of the pump.

Fig. 4



Item	Part Number	Description
A	F2088	Ball Valve
B	F985	Filter/Regulator
C	F822	Air hose
D	F940	Quick coupling
E	F941	Connection nipple
F	See How to Order Chart	Pump
G	F609008	Pressure relief valve
H	F857	Oil hose
I	F2074	Ball valve, medium pressure
J	F360132	Wall bracket
K	F867	Oil suction hose
L	F2084	Ball valve, low pressure

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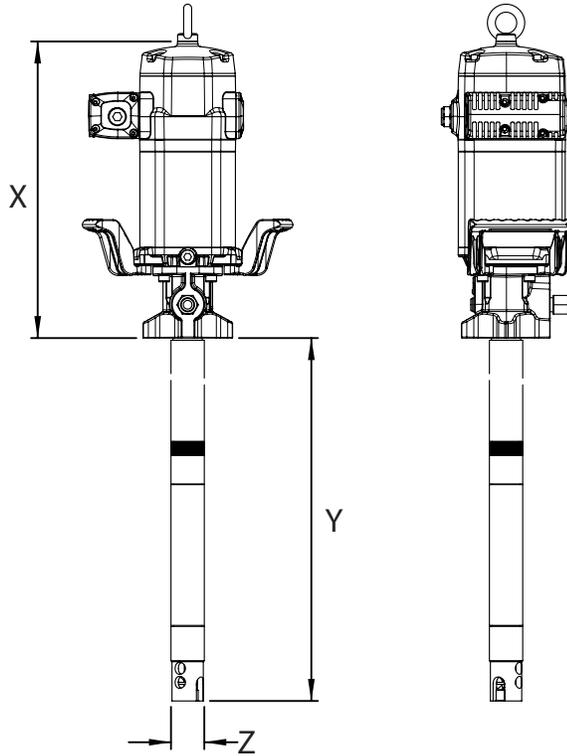
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Dimensional Schematics



Part #	X	Y	Z
F536331	17.6"	8"	3.5"
F536631	17.6"	8"	2.8"
F536031	17.6"	8"	2.0"
F536011	17.6"	33.6"	2.0"
F537631	18.1"	8"	3.5"
F537131	18.1"	8"	2.8"

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