

Stand-Alone Pumps

FABRICATED STEEL TANK

PMPF

Pressure Motive Pump



Model	PMPF
Body	Carbon Steel
Cover	Carbon Steel
Check Valves	Stainless Steel
PMO Max. Operating Pressure	200 PSIG
TMO Max. Operating Temperature	388°F
PMA Max. Allowable Pressure	250 PSIG @ 650°F

Typical Applications

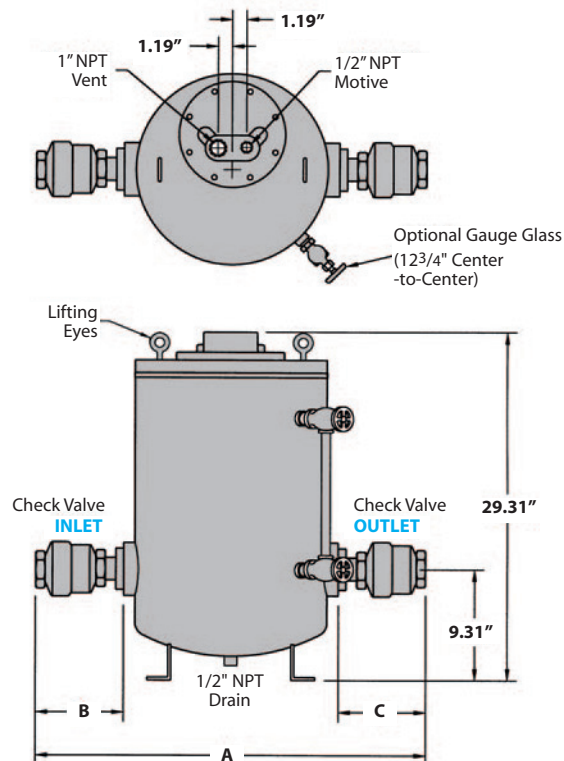
The **PMPF** model **Carbon Steel** non-electric pressure motive pump is typically used when liquids must be moved to higher elevation, higher pressure or extended distances. This stand-alone pump is capable of operating with a maximum motive pressure of 200 PSIG provided by steam, air or other gas supply. These tanks are fabricated with 0.025" corrosion allowance and receive the ASME "UM" code stamp.

Features

- Equipped with our **Patented "Snap-Assure" Mechanism** which **extends the useful life of the pump**
- Mechanism incorporates **heat-treated stainless steel wear items**
- All stainless steel internals for ultimate corrosion resistance
- Dual compression springs made from Inconel-X-750 for high-temperature corrosive service
- Operates using steam, air, nitrogen or other pressurized gases as the motive force
- Non-Electric** – can be used in remote locations or NEMA 4, 7, 9 and hazardous areas

Sample Specification

The non-electric pressure powered pump shall be capable of operating with a maximum motive pressure of 200 PSIG provided by steam, air or other gas supply. The pump body shall be fabricated carbon steel and certified with the ASME "UM" code stamp. The pump mechanism shall be float operated with a patented "Snap-Assure" feature constructed of all stainless steel materials with all load bearing points hardened for extended service life. The mechanism shall feature two Inconel springs used in compression with motive & vent valves hardened to 40c Rockwell.



Operating Specifications

Pump discharge per cycle: 8.4 gallons
 Average instantaneous discharge rate: 90 gpm
 Average steam consumption: 3 lbs. per 1000 lbs. liquid pumped
 Average air consumption: 60 SCF per 1000 lbs. pumped

DIMENSIONS – inches

Size (Inlet x Outlet)	Model Code	A	B	C	Weight (lbs)
1" x 1"	PMPF-1X1-N-SS	30 1/2	6	6	215
1 1/2" x 1"	PMPF-1.5X1-N-SS	31 3/4	7 1/2	7 1/2	220
1 1/2" x 1 1/2"	PMPF-1.5X1.5-N-SS	32 1/4	7 1/2	6	223
2" x 1"	PMPF-2X1-N-SS	32	8	6	225
2" x 1 1/2"	PMPF-2X1.5-N-SS	33 1/2	8	7 1/2	230
2" x 2"	PMPF-2X2-N-SS	33 3/4	8	8	235
3" x 2"	PMPF-3X2-N-SS	35 1/4	9 1/4	8	240

The PMPF Stand Alone Pump consists of pump tank, internal mechanism, and inlet and outlet stainless steel check valves.

MATERIALS

Body & Cover	Carbon Steel
Cover Gasket	Grafoil
Cover Bolts	Steel
Inlet Valve	Hardened Stainless Steel 40 Rc
Vent Valve	Hardened Stainless Steel 40 Rc
Mechanism Yoke	304 Stainless Steel
Ball Float	304 Stainless Steel
Check Valves	Stainless Steel
Springs	Inconel-X-750
Other Internal Components	Stainless Steel

Snap-Assure U.S. Patent No. 6572340

Condensate
Pumps