

# Stand-Alone Pumps

## CARBON STEEL LOW-PROFILE TANK

**PMPLS**  
Pressure Motive Pump

Condensate  
Pumps



Model	<b>PMPLS</b>
Body	<b>Carbon Steel</b>
Cover	<b>Carbon Steel</b>
Check Valves	<b>Stainless Steel</b>
PMO Max. Operating Pressure	<b>150 PSIG</b>
TMO Max. Operating Temperature	<b>366°F</b>
PMA Max. Allowable Pressure	<b>150 PSIG @ 650°F</b>

Note: Optional 200 PSIG PMA/PMO. Consult Factory.

### Typical Applications

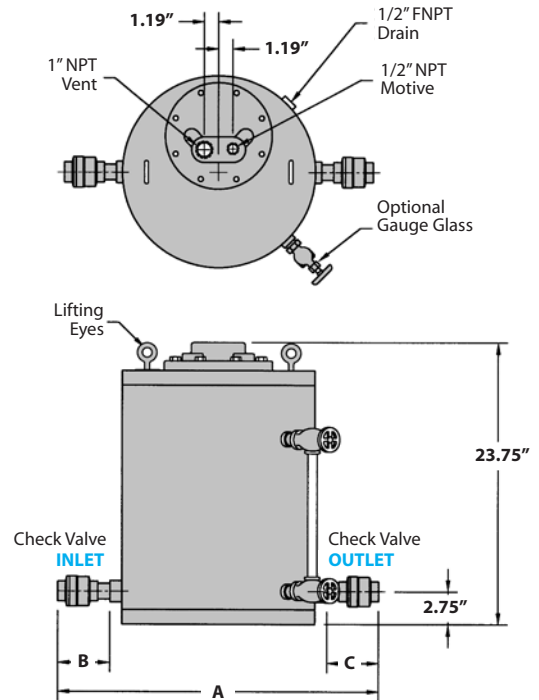
The **PMPLS** model **Carbon Steel** non-electric pressure motive pump is a lower profile than the standard PMPF model. It is sometimes required when draining condensate from process equipment that is positioned close to the ground, which limits the filling head of the pump. This stand-alone pump is capable of operating with a maximum motive pressure of 150 PSIG provided by steam, air or other gas supply. These pumps 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 150 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 and vent valves hardened to 40c Rockwell.



DIMENSIONS – inches					
Size (Inlet x Outlet)	Model Code	A	B	C	Weight (lbs)
1" x 1"	<b>PMPLS-1X1-N-SS</b>	29 <sup>1</sup> / <sub>2</sub>	5 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	200
1 <sup>1</sup> / <sub>2</sub> " x 1"	<b>PMPLS-1.5X1-N-SS</b>	30 <sup>3</sup> / <sub>4</sub>	7	5 <sup>5</sup> / <sub>8</sub>	205
1 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> "	<b>PMPLS-1.5X1.5-N-SS</b>	32 <sup>1</sup> / <sub>8</sub>	7	7	210

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

MATERIALS	
Body & Cover	<b>Carbon Steel</b>
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