

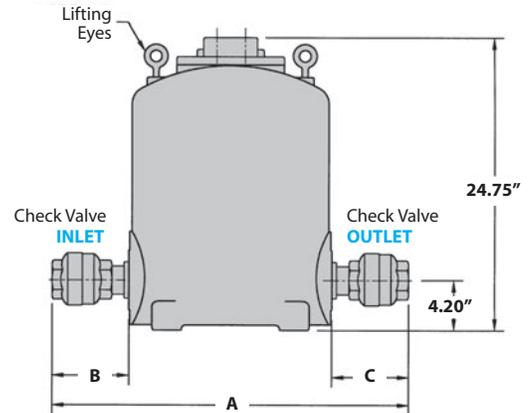
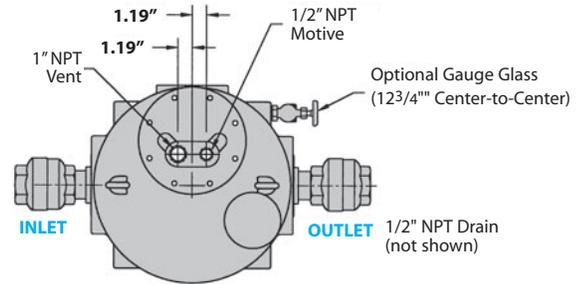
Stand-Alone Pumps

CAST DUCTILE IRON TANK

PMPC

Pressure Motive Pump

Condensate
Pumps



| | |
|--------------------------------|-------------------------|
| Model | PMPC |
| Body | Ductile Iron |
| Cover | Ductile Iron |
| Check Valves | Stainless Steel |
| PMO Max. Operating Pressure | 200 PSIG |
| TMO Max. Operating Temperature | 388°F |
| PMA Max. Allowable Pressure | 200 PSIG @ 650°F |
| TMA Max. Allowable Temperature | 650°F @ 200 PSIG |

Typical Applications

The **PMPC** model **Ductile Iron** 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. **ASME "UM" code stamp is available.**

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 cast ASTM A-395 Ductile Iron capable of an ASME "UM" code stamp if requested. 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" | PMPC-1X1-N-SS | 29 ¹ / ₂ | 6 | 6 | 360 |
| 1 ¹ / ₂ " x 1" | PMPC-1.5X1-N-SS | 30 ³ / ₄ | 7 ¹ / ₂ | 6 | 365 |
| 1 ¹ / ₂ " x 1 ¹ / ₂ " | PMPC-1.5X1.5-N-SS | 31 ¹ / ₄ | 7 ¹ / ₂ | 7 ¹ / ₂ | 367 |
| 2" x 1" | PMPC-2X1-N-SS | 31 | 8 | 6 | 370 |
| 2" x 1 ¹ / ₂ " | PMPC-2X1.5-N-SS | 32 ¹ / ₂ | 8 | 7 ¹ / ₂ | 380 |
| 2" x 2" | PMPC-2X2-N-SS | 32 ³ / ₄ | 8 | 8 | 385 |
| 3" x 2" | PMPC-3X2-N-SS | 35 ¹ / ₄ | 9 ¹ / ₄ | 8 | 390 |

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

MATERIALS

| | |
|---------------------------|--------------------------------|
| Body & Cover | Ductile Iron |
| 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