

Pump & Trap Combination

Internal Steam Trap

PMPT

PUMPING
TRAPS

Model	PMPT	PMPTS
Body	Ductile Iron	Stainless Steel
Cover	Carbon Steel	Stainless Steel
Sizes	1", 1 1/2" NPT	1 1/2" FLG
Check Valves	Stainless Steel	Stainless Steel
PMO Max. Operating Pressure	125 PSIG	125 PSIG
TMO Max. Operating Temperature	353°F	353°F
PMA Max. Allowable Pressure	150 PSIG @ 450°F	150 PSIG @ 450°F



Steam Trap internal to pump body
will function like a normal float trap discharging condensate as its formed. If condensate backs up, the pumping mechanism will use motive steam pressure to discharge the condensate.

Typical Applications

The **PMPT** low-profile pressure motive pump & trap combination has an internal steam trap for draining heat exchangers and other equipment whose steam pressure is modulated by a temperature regulator or a temperature control valve. In these applications the steam pressure in the heat exchanger may not be sufficient to overcome the back pressure in the condensate return line. When this condition occurs, the pressure powered pump takes over and uses high pressure steam supplied to the pump to discharge the condensate. When sufficient pressure does exist, the PMPT functions like a standard steam trap. Its small compact design is perfect for applications with limited space.

Pump-Traps facilitate condensate discharge under all operating conditions, including vacuum.

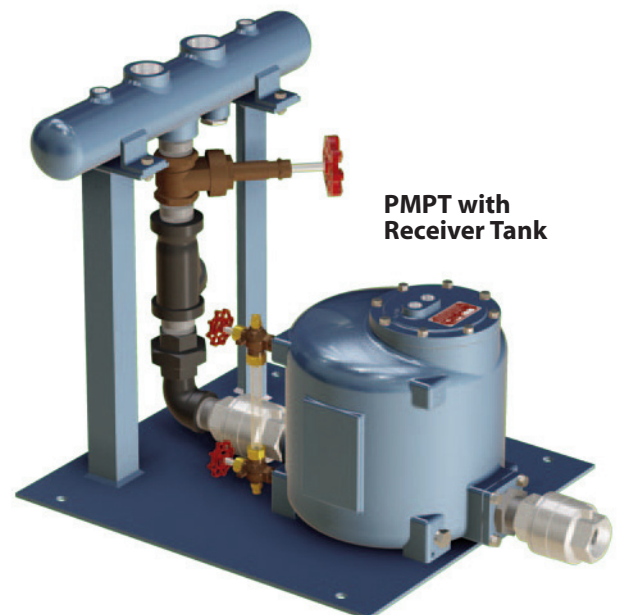
Features

- Low-profile design allows for condensate drainage of equipment positioned close to the floor
- Equipped with our proven, **Patented "Snap-Assure"** mechanism which extends the useful life of the pump
- Internal mechanism can be removed from the top of the pump while pump remains piped in line
- Mechanism incorporates heat-treated stainless steel wear items
- Dual compression springs made from Inconel-X-750 for high-temperature, corrosive service

NOTE: Reservoir - Pump-Trap Combination may require a reservoir above the pump to collect condensate generated in the heat exchanger during the discharge cycle of the pump. Consult Reservoir Sizing Guidelines or contact factory for additional information.

Options

- Horizontal pipe reservoir (recommended)
- Motive and vent piping
- Motive piping components such as steam trap, strainer and regulator
- Packaged systems available with reservoir, base and skid
- Gauge Glass
- Insulation Jacket
- ASME Code Stamp



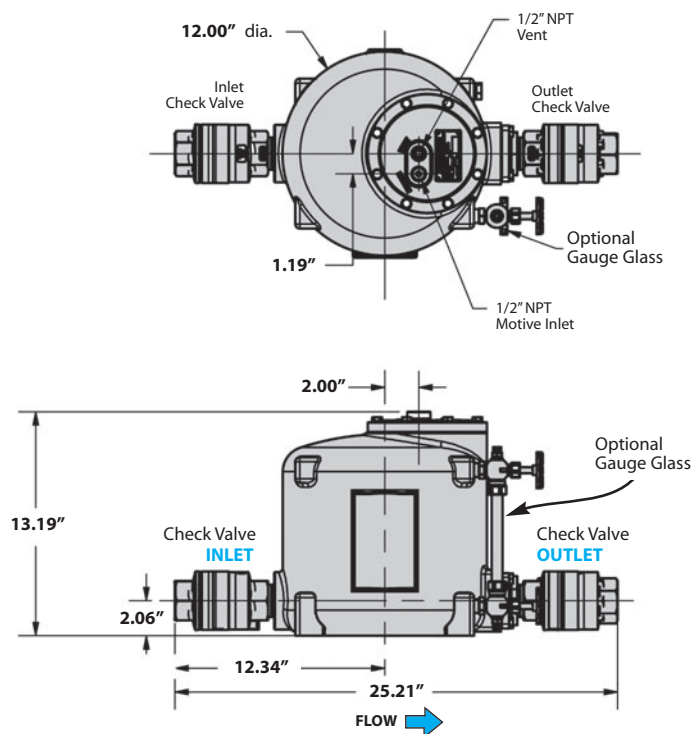
PMPT with Receiver Tank

Pump & Trap Combination

Internal Steam Trap

PMPT

PUMPING
TRAPS



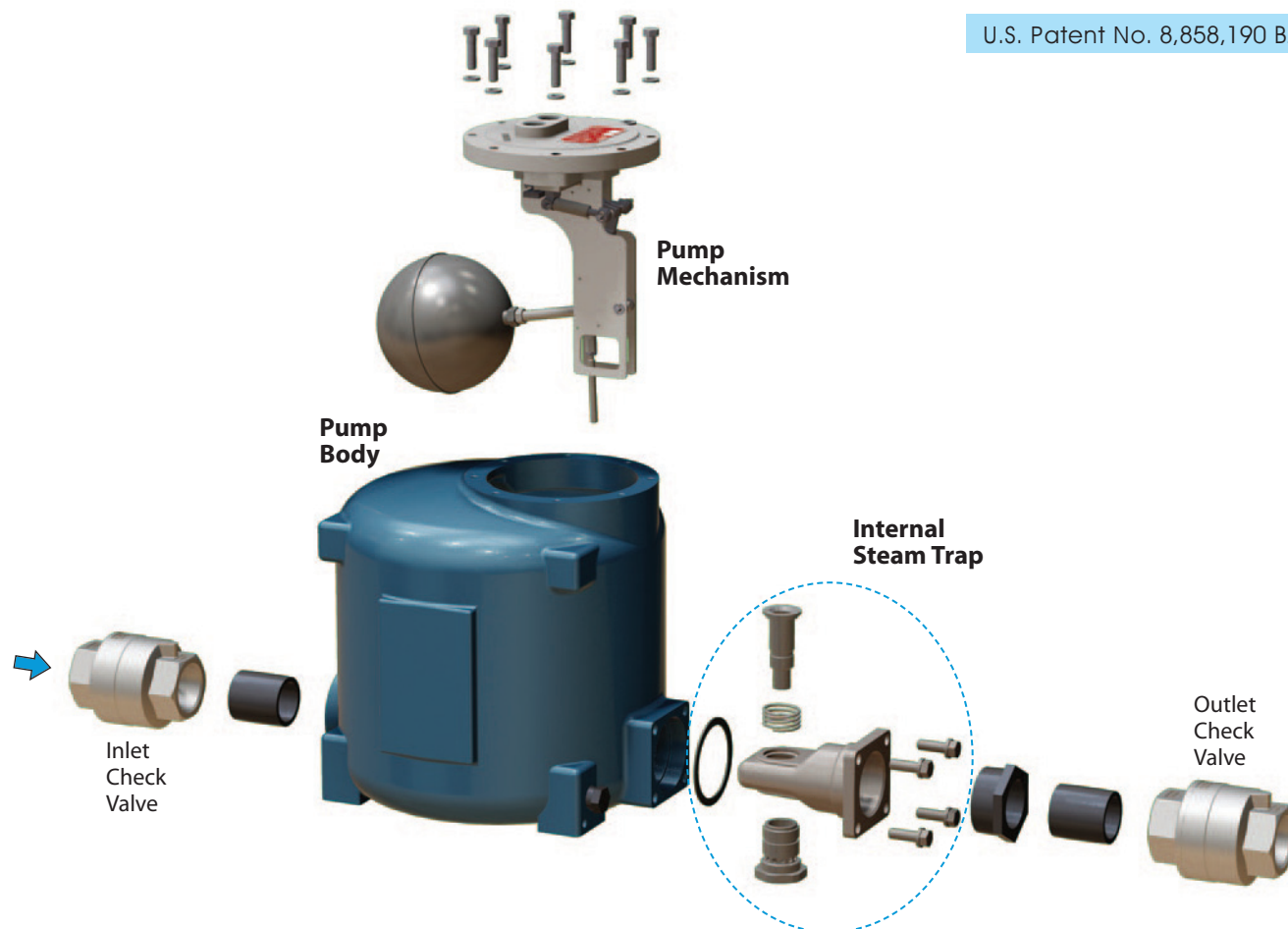
MATERIALS

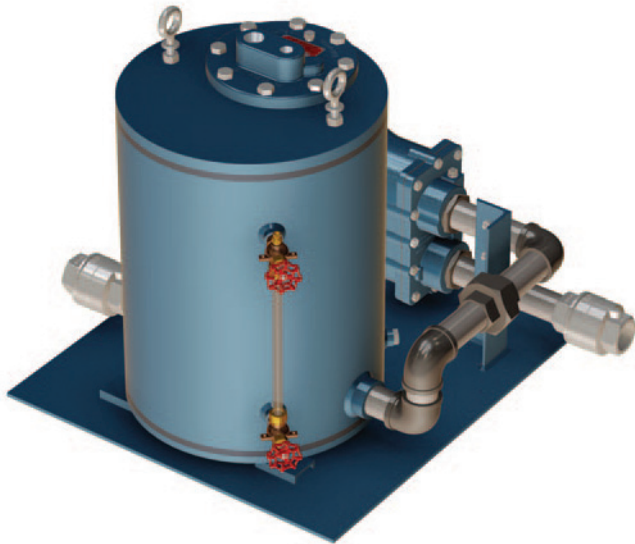
Body PMPT	Ductile Iron SA-395
Body PMPTS	Stainless Steel CF3M
Cover PMPT	Carbon Steel ASTM A216 Gr WCB
Cover PMPTS	Stainless Steel CF3M
Cover Gasket	Garlock
Cover Bolts	Steel
Inlet Valve	Hardened Stainless Steel 40 Rc
Vent Valve	Hardened Stainless Steel 40 Rc
Ball Float	300 Stainless Steel
Check Valves	Stainless Steel 316SS CF3
Springs	Inconel-X-750
Other Internal Components	Stainless Steel

Inlet x Outlet Size NPT	Model Code	PMO PSI	Weight lbs
Ductile Iron Pump Body (NPT)			
1" x 1"	PMPT-1X1-N-SS	125	85
1 1/2" x 1 1/2"	PMPT-1.5X1.5-N-SS	125	95
Stainless Steel Pump Body (NPT or 150# FLG)			
1 1/2" x 1 1/2"	PMPTS-1.5X1.5-N-SS	125	95
1 1/2" x 1 1/2"	PMPTS-1.5X1.5-F150-SS	125	98

The PMPT Pump-Trap consists of pump tank, internal mechanism & trap, and inlet & outlet stainless steel check valves.

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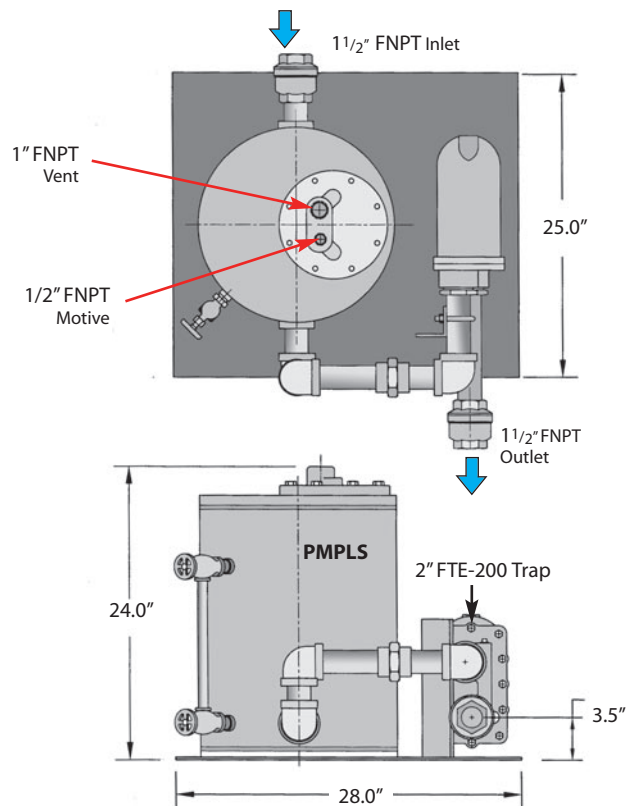


WPT-Series Pump-Trap Combinations simplify Selection & Installation of Pressure Motive Pumps

- 3 size ranges available
- Up to 13,000 lbs/hr of condensate load

WPT3 • 1 1/2" x 1 1/2" Inlet x Outlet

(PMPLS with 2" FTE-200 Steam Trap)



Typical Applications

WPT Pump-Trap Combinations are excellent for draining condensate from heat exchangers and other equipment whose steam pressure is modulated by a temperature regulator or a temperature control valve. In these applications the steam pressure in the heat exchanger may not be sufficient to overcome the back pressure in the condensate return line. When this condition occurs, the pressure powered pump takes over and uses high pressure steam supplied to the pump to discharge the condensate. When sufficient pressure does exist, the WPT functions like a standard steam trap.

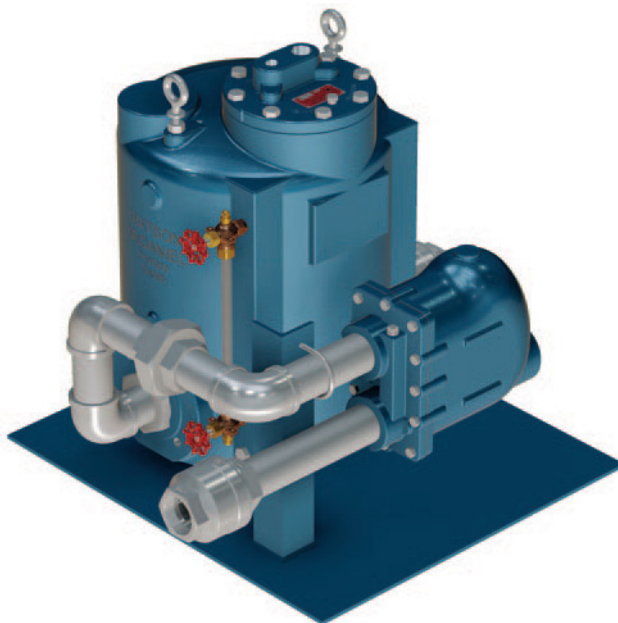
Pump-Traps facilitate condensate discharge under all operating conditions, including vacuum.

Pump-Trap Features

- Pump and Steam Trap are pre-mounted together on a single base for easy installation
- Higher capacities than Pump-Trap combinations with internal steam traps (PMPT)
- Engineering and selection is simplified using a pre-mounted system

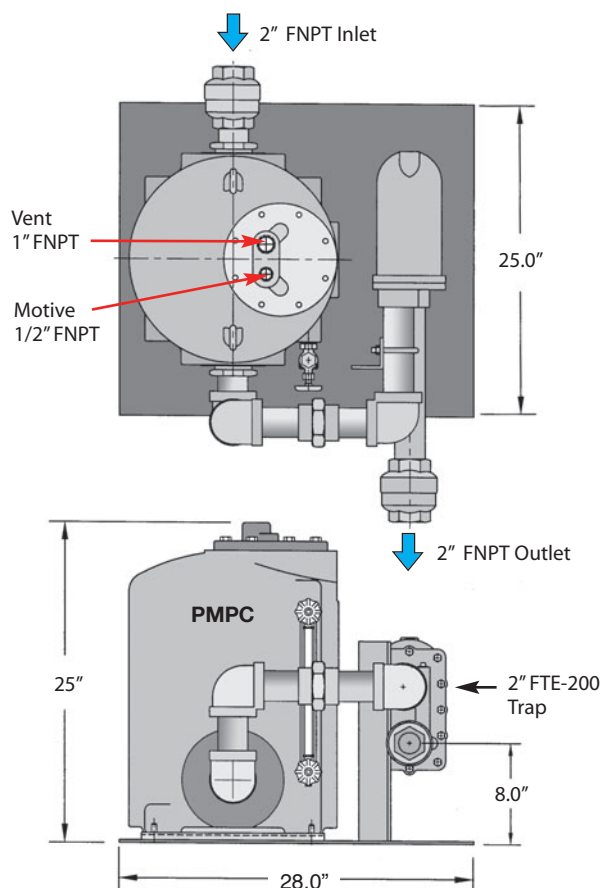
NOTE: Reservoir - Pump-Trap Combination may require a reservoir above the pump to collect condensate generated in the heat exchanger during the discharge cycle of the pump. Consult Reservoir Sizing Guidelines or contact factory for additional information.

MATERIALS	WPT3		WPT4		WPT5	
	Pump	Trap	Pump	Trap	Pump	Trap
Body	Carbon Steel	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395
Cover	Carbon Steel	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395	Ductile Iron SA-395
Cover Gasket	Garlock	Garlock	Garlock	Garlock	Garlock	Garlock
Cover Bolts	Steel	Steel	Steel	Steel	Steel	Steel
Inlet Valve	17-4 Ph SS 40 Rc	n/a	17-4 Ph SS 40 Rc	n/a	17-4 Ph SS 40 Rc	n/a
Vent Valve	17-4 Ph SS 40 Rc	n/a	17-4 Ph SS 40 Rc	n/a	17-4 Ph SS 40 Rc	n/a
Ball Float	304 SS	304 SS	304 SS	304 SS	304 SS	304 SS
Check Valves	316 SS	n/a	316 SS	n/a	316 SS	n/a
Springs	Inconel-X-750	n/a	Inconel-X-750	n/a	Inconel-X-750	n/a
Other Internal Components	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel



WPT4 • 2" x 2" Inlet x Outlet

(PMPC with 2" FTE-200 Steam Trap)



WPT5 • 3" x 2" Inlet x Outlet

(PMPC with 2 1/2" FTE-200 Steam Trap)

