PMPSP "The Pit Boss"

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Sump Drainer



Model	PMPSP
Body	Carbon Steel
Cover	Ductile Iron
Check Valves	Stainless Steel
PMO Max. Operating Pressure	150 PSIG
TMO Max. Operating Temperature	366°F
PMA Max. Allowable Pressure	150 PSIG @ 650°F

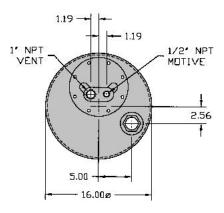
Connection Sizes NPT						
Inlet	Outlet					
11/2"	Х	11/2"				
2″	X	2″				
3″	X	2″				

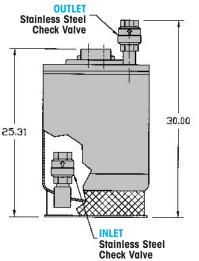
TYPICAL APPLICATIONS

The **PMPSP** Sump Drainer uses the identical internal mechanism as the standard PMP models. The piping configuration is such that the liquid is discharged vertically upwards as opposed to horizontally out the side. This allows the unit to be easily positioned inside of a sump area. Condensate or water from the sump enters the tank through a stainless steel low resistance check valve.

FEATURES

- Equipped with our <u>Patented "Snap-Assure"</u> Mechanism which extends the useful life of the pump
- Mechanism incorporates <u>heat-treated stainless steel wear items</u>
- 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 & hazardous areas
- Built-in strainer screen



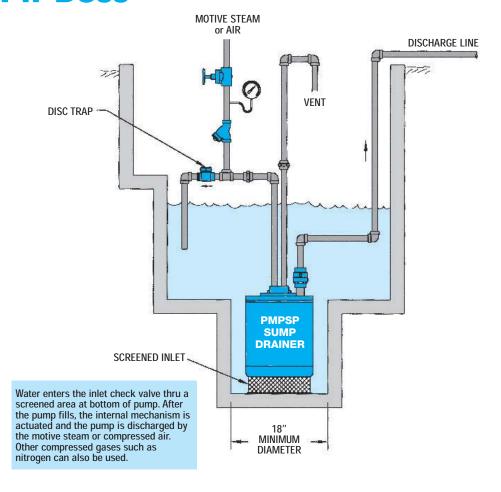




PMPSP

Sump Drainer

"The Pit Boss"



CAPACITIES - Water (GPM) for 11/2" x 11/2" Size										
Motive Pressure		acity on Factors	Back Pressure (PSIG)							
(PSIG)		3" x 2"	0	10	20	40	70	100		
10	2.5	3	11.7							
20	1.8	2.4	12.5	9.2						
40	1.9	2.4	13.1	10.4	8.7					
70	1.7	2.4	12.9	11.0	9.4	7.1				
100	1.6	2	12.3	10.6	9.4	7.5	5.4			
125	1.6	2	11.6	10.1	.9.0	7.5	5.6	4.3		
150	1.6	2	10.7	9.5	8.8	7.2	5.7	4.5		

Note: Capacities in above chart are for the 1-1/2" x 1-1/2" model. To determine capacities for the 2" x 2" & 3" x 2" models, multiply capacity in chart by appropriate correction factor.

Snap-Assure Patent No. 6572340



Pumps with Receiver Tanks

Pressure Motive Pumps

Standard Skid Mounted Systems

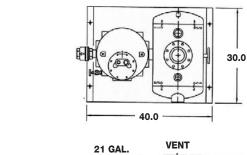
FEATURES

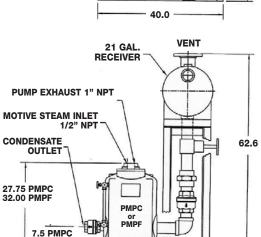
- Easy to install with only four connections to be made in the field
- Dramatically reduces installation costs with all system elements pre-piped
- Utilizing Watson McDaniel's years of experience will ensure that vented receivers or pressurized reservoirs are properly sized for optimum system performance
- Watson McDaniel's fully-qualified fabrication facility is ASME code certified. Our engineers can design and build complete custom systems to meet all your requirements

TYPICAL OPTIONS

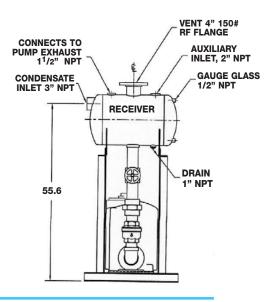
- Gauge glass assembly
- Cycle counter
- Insulation covers
- Motive steam drip trap
- Overflow pipe connection
- Pressure regulator for motive supply line

SIMPLEX SYSTEMS - Models PMPC & PMPF





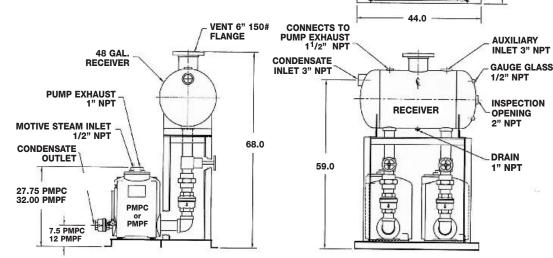
- SIZING DEPENDS ON CONDENSATE LOAD, INLET MOTIVE PRESSURE & FILLING HEAD.
- THE SIZING OF THE RECEIVER AND VENT CONNECTION IS BASED ON APPLICATION PARAMETERS WHEN USED AS OPEN LOOP (VENTED) SYSTEM.



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DUPLEX SYSTEMS – Models PMPC & PMPF

- SIZING DEPENDS ON CONDENSATE LOAD, INLET MOTIVE PRESSURE & FILLING HEAD.
- THE SIZING OF THE RECEIVER AND VENT CONNECTION IS BASED ON APPLICATION PARAMETERS WHEN USED AS OPEN LOOP (VENTED) SYSTEM.





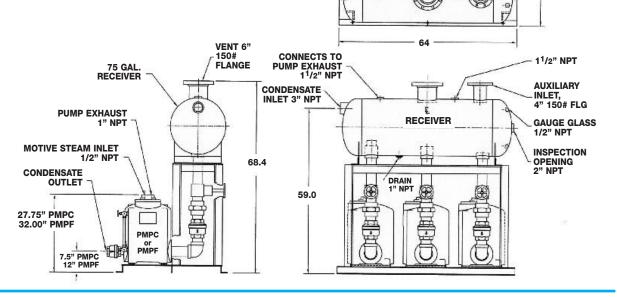
Pumps with Receiver Tanks

Pressure Motive Pumps

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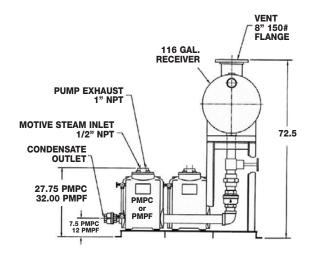
TRIPLEX SYSTEMS - Models PMPC & PMPF

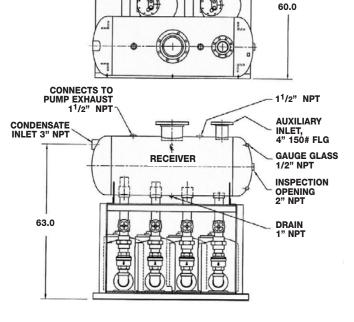
- SIZING DEPENDS ON CONDENSATE LOAD, INLET MOTIVE PRESSURE & FILLING HEAD.
- THE SIZING OF THE RECEIVER AND VENT CONNECTION IS BASED ON APPLICATION PARAMETERS WHEN USED AS OPEN LOOP (VENTED) SYSTEM.



QUADRAPLEX SYSTEMS - Models PMPC & PMPF

- NOTES:
 1. SIZING DEPENDS ON CONDENSATE LOAD, INLET MOTIVE PRESSURE & FILLING HEAD.
- 2. THE SIZING OF THE RECEIVER AND VENT CONNECTION IS BASED ON APPLICATION PARAMETERS WHEN USED AS OPEN LOOP (VENTED) SYSTEM.





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