

STREET NO Fail Marine 3-Year No Fail

The Armstrong PT-200 Series Low Profile Pump Trap is a low maintenance, non-electric solution to move condensate or other liquids from low points, low pressures or vacuum spaces to an area of higher elevation or pressure. Condensate can be returned well above the 200°F (93°C) limit of conventional electric condensate pumps without the headaches of leaking seals or cavitation problems.

## Features

- Economical non-electric operation. Uses inexpensive steam, air or inert gas.
- Low-maintenance operation. No leaking seals, impeller or motor problems means lower maintenance. No NPSH issues.
- Space-saving size. Low-profile body fits in tight spaces while allowing minimal fill head.
- Lower installation costs. Single trade required for installation and maintenance.
- · Peace of mind. Standard unit is intrinsically safe.
- Cast iron durability. Rugged construction material means long service life.
- Corrosion resistance. Internals are all stainless steel for corrosion resistance and long life.
- Heavy-duty springs. Springs are made from long-lasting Inconel X-750.
- Efficiency. A closed loop means no motive or flash steam is lost. All valuable Btu's are captured and returned to the system.
- Safety. The pump can be used in flooded pits without fear of electrocution or circuit breaker defaults.
- Externally removable/replaceable seats. Seats can be replaced or cleaned without removing the mechanism assembly.

## Options

Use of external check valves required for operation of pumping trap.

- Inlet Swing Check Valve NPT Bronze ASTM B 62 Teflon<sup>®</sup> Disc Class 150 (Minimum)
- Outlet Stainless Steel Check Valve Class 150 (Minimum)
- In-line Check Valves
  Stainless Steel Non-Slam Check Valves
- Bronze Gauge Glass Assembly
- Steel Gauge Glass Assembly
- Removable Insulation Jacket
- Digital Cycle Counter

For a fully detailed certified drawing, refer to CDF #1000.



PT-200 Pumping Trap Materials							
Name of Part	Series PT-200						
Body and Cap	Cast iron ASTM A48 CI. 30						
Cap Gasket	Graphoil						
Bolts	SA-449 Steel						
Nuts	Alloy steel ASTM A194 Gr. 2H						
Inlet Valve Assembly	Stainless steel						
Vent Valve Assembly	Stainless steel						
Valve Assembly Washers	Zinc plated steel						
Plug	Steel						
Mechanism Assembly	Stainless steel						
Springs	Inconel X-750						

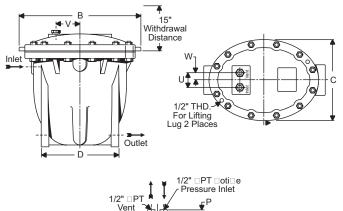
## PT-200 Pumping Trap Connection Sizes

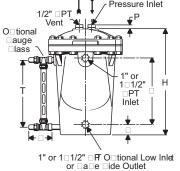
	Cast Iron						
Model	PT-	204	PT-206				
	in	mm	in	mm			
Inlet Connection	1	25	1-1/2	40			
Outlet Connection	1	25	1-1/2	40			
Optional Low Inlet or Same Side Outlet Connection	1	25	1-1/2	40			
Motive Pressure Connection	1/2	15	1/2	15			
Vent Connection	1/2	15	1/2	15			
Gauge Glass Connection	1/2	15	1/2	15			

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit www.armstronginternational.com for up-to-date information.

## PT-200 Series Low Profile Cast Iron Pump Trap







	PT-204 PT-206			
	in	mm		
"B"	20-7/16	519		
"C"	13-1/2	342		
"D"	12-15/16	328		
"H"	19	482		
"M"	11-35/64	293		
"P"	23/32	18		
"R"	2-1/32	51		
"S"	4-3/8	111		
"T"	12	305		
"U"	2-1/4	57		
"V"	4-1/8	104		
"W"	1-1/8	28		
Weight Ib (kg)	210 (96)			
Number of Body/Cap Bolts	12			
Check Valve Conn. in (mm)	1 (25)	1-1/2 (40)		
Bronze Check Valves Ib (kg)	4 (2)	9 (4)		
Stainless Steel Check Valves Ib (kg)	4 (2)	9 (4)		

laximum Allowable Pressure (Vessel Design) 150 psig @ 450°F (10 bar @ 232°C) Maximum Operating Pressure 125 psig (9 bar)

PT-200 Capacity Conversion Factors for Other Fill Heads											
Fill Head		in	mm	in	mm	in	mm	in	mm	in	mm
		0	0	6	152	12	305	24	610	36	914
Model	PT-204	0.7		1		1.1		1.3		1.4	
wouer	PT-206	0.7		1		1.1		1.3		1.4	

NOTE: Fill head is measured from drain point to top of cap. See figures on page 228.

PT-200 Pi	umping Tra	p Capacit	ies								
Motive Pressure Total Lift or I Pressure				PT-204 (6" Fill Head) 1" x 1"				PT-206 (6" Fill Head) 1-1/2" x 1-1/2"			
			Steam Motive		Air Motive		Steam Motive		Air Motive		
psig	bar	psig	bar	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr
15 25 50 75 100 125	1.0 1.7 3.5 5 7 8.5	5	0.34	1,800 2,025 2,100 2,200 2,300 2,400	816 919 953 998 1,043 1,089	2,100 2,300 2,500 2,700 *	953 1,043 1,134 1,225 *	2,700 3,200 3,400 3,500 3,600 3,700	1,225 1,451 1,542 1,588 1,633 1,678	3,000 3,500 3,600 3,700 *	1,361 1,588 1,633 1,678 *
25 50 75 100 125	1.7 3.5 5 7 8.5	15	1	1,500 2,000 2,100 2,110 2,125	680 907 953 957 964	2,000 2,250 2,500 *	907 1,021 1,134 *	2,400 3,200 3,300 3,350 3,400	1,088 1,451 1,497 1,520 1,542	2,700 3,400 3,500 *	1,225 1,542 1,588 *
35 50 75 100 125	2.5 3.5 5 7 8.5	25	1.5	1,500 1,700 1,900 2,000 2,100	680 771 862 907 953	1,700 2,000 2,300 *	771 907 1,043 *	2,100 2,400 2,700 2,800 2,900	953 1,089 1,225 1,270 1,315	2,300 2,600 2,900 *	1,043 1,179 1,315 *
50 60 75 100 125	3.5 4 5 7 8.5	40	3	1,400 1,500 1,700 1,800 1,920	635 680 771 816 871	1,700 2,000 2,200 *	771 907 998 *	1,500 2,000 2,300 2,400 2,500	680 907 1,043 1,089 1,134	2,000 2,300 2,500 *	907 1,043 1,134 *
70 75 100 125	4.5 5 7 8.5	60	4	1,100 1,300 1,600 1,720	499 590 726 780	2,000 2,300 *	907 1,043 *	1,150 1,325 1,900 2,000	522 601 862 907	2,000 2,300 *	907 1,043 *

NOTES: Published capacities are based on the use of external check valves supplied by Armstrong. Fill head measured from drain point to top of pump cap. See figures on page 228. Although motive pressures are shown at high pressure differentials (difference between motive inlet pressure and total lift or back pressure), it is preferable to use a motive pressure of 10 - 15 psig (0.65 - 1.0 bar) above discharge (outlet) pressure. This ensures longevity of economical (bronze) check valves and reduces both venting time and temperature differential (on steam). If a higher differential is used, stainless steel check valves are recommended. \*Consult factory.

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