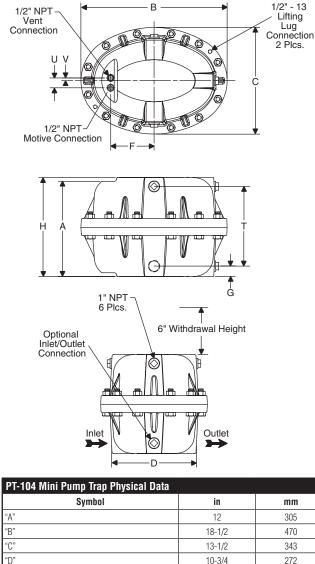
Armstrong[®] PT-104 Series Mini Pump Trap



5	10 1/2	010		
"D"	10-3/4	272		
"F"	5-1/2	140		
"G"	1-5/16	33		
"H"	12-1/2	317		
"U"	1-1/4	32		
"V"	3/8	9		
"T"	10-1/16	256		
Weight Ib (kg)	140 (64)			
Bronze Check Valves Ib (kg)	4 (2)			
Stainless Steel Check Valve Ib (kg)	4 (2)			
Maximum Operating Pressure	100 psig	100 psig (7 bar)		
Maximum Allowable Pressure (vessel design)	150 psig @ 450°F (10 bar @ 232°C)			

PT-104 Mini Pump Trap Connection Sizes					
Connection	Туре	in	mm		
Inlet		1	25		
Outlet		1	25		
Vent	NPT	1/2	15		
Motive Pressure	INP I	1/2	15		
Optional Gauge Glass		1	25		
Optional Cycle Counter/Pressure Gauge		1	25		



No Fai

The patented Armstrong PT-104 Mini Pump Trap is the smallest non-electric solution that can move condensate or other liquids from lower to higher points and from lower to higher pressures. Condensate can be returned at temperatures well above the 200°F (93°C) limit of conventional electric centrifugal pumps without the headaches of leaking seals or cavitation problems. The PT-104 Mini Pump Trap is the small solution for a big problem.

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.

For a fully detailed certified drawing, refer to CDF #1028.

PT-104 Mini Pump Trap Materials				
Name of Part	Material			
Body and Cap	Cast iron ASTM A48 CI.30			
Vent/Inlet Valves	Stainless steel			
Mechanism Assembly	Stainless steel			
Spring	Inconel X-750			
Gasket	Graphoil			
Bolts	SA 449			
Nuts	ASTM A194 Gr.2H			
Plug	Cast iron			

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

North America • Latin America • India • Europe / Middle East / Africa • China • Pacific Rim armstronginternational.com

PT-104 Series Mini Pump Trap



Options

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

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

Capacity Conversion Factors for Other Filling Heads				
Filling Head				
in	0	6	12	* 24 or greater
mm	0	150	305	* 620 or greater
PT-104 Mini Pump Trap	0.7	1.0	1.2	* Consult factory

NOTE: Fill head measured from drain to top of cap. See figures on page 234.

PT-104	PT-104 Mini Pump Trap Capacities							
Motive Pressure Deak Pressure		Filling Head 6" (152 mm) Liquid Specific Gravity .09 - 1.0						
		Back Pressure		Steam		Air		
psig	bar	psig	bar	lb/hr	kg/hr	lb/hr	kg/hr	
15	1.0		0.34	1,125	510	2,100	952	
25	1.7	5		1,300	590	2,200	998	
50	3.5			1,550	703	2,275	1,032	
75	5.0			1,650	748	2,300	1,043	
100	7.0			1,400	635	2,350	1,066	
25	1.7	15	15 1.0	650	295	1,900	862	
50	3.5			700	363	2,050	930	
75	5.0			750	317	2,100	952	
100	7.0			800	340	2,150	975	
35	2.5	25	05 15	400	181	1,800	816	
50	3.5			450	204	1,935	878	
75	5.0		25	25 1.5	500	227	2,050	930
100	7.0			550	249	2,075	941	
50	3.5	40			250	113	1,620	735
75	5.0		40 2.75	300	136	1,850	823	
100	7.0			350	159	1,950	884	

NOTE: Published capacities are based on the use of external check valves supplied by Armstrong. Fill head measured from drain point to top of pump case. See figures on page 234.

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