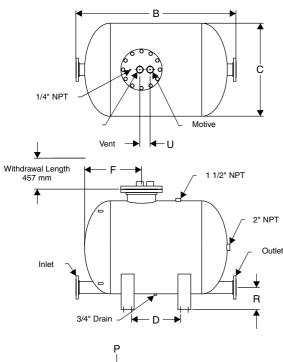


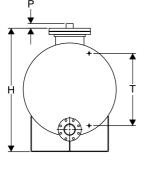
EPT-516 High Capacity Pumping Trap

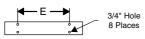
Carbon Steel, In-Line Connections

For capacities up to 35 920 kg/h (steam motive)... Discharge per cycle 475 liters









Effective recovery and return of hot condensate are essential to overall plant efficiency while conserving energy. Large amounts of condensate provide the best opportunities to save energy.

The Armstrong EPT-516 High Capacity Pump Trap is the low maintenance, non-electric solution to moving large amounts of condensate and other liquids from low points, low pressures or vacuum spaces to an area of higher elevation or pressure. Condensate can be returned at temperatures well above the 99°C limit of conventional electric pumps without the headaches of leaking seals or cavitation.

Features

- Non-electric Uses inexpensive steam, air or gas to operate the pump trap
- No leaking seals/packings, impeller wear, electrical or motor problems – Reduces maintenance and downtime
- Single trade installation or repair reduces installation and maintenance costs
- Direct spring/float actuated mechanism No maintenance intensive diaphragm operated valve mechanism
- Compression spring design Reduces downtime, ensures performance and reliability
- Rugged stainless steel internals Durable and corrosion resistant for enhanced service life
- Closed loop No motive steam or flash steam loss, therefore capturing and returning all valuable kJ back to the system (see General Applications on page CRE-208)
- Safety Pump can be placed in flooded pits without fear of electrocution or circuit breaker defaults
- Explosion proof Standard unit intrinsically safe without additional cost

	mm			
Inlet Connection	DN100-PN40 - 4" 150# ANSI Flg			
Outlet Connection	DN100-PN40 - 4" 150# ANSI Flg			
Motive Connection	2" NPT			
Vent Connection	2" NPT			
Gauge Glass Connection	1/2" NPT			
"B"	1 574			
"C"	914			
"D"	484			
"E"	508			
"F"	559			
"H"	1 219			
"P"	44			
"R"	222			
"T"	711			
"U"	100			
Weight	366			
Number of Bolts	12			

Maximum Operating Pressure on standard unit: 10 barg.

For higher pressure, please consult factory.

Maximum Allowable Pressure (standard vessel design): 10 barg @ 250°C.

21 barg vessel available upon request.

This model is CE Marked according to the PED (97/23/EC).

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

EPT-516 High Capacity Pumping Trap

Carbon Steel, In-Line Connections

For capacities up to 35 920 kg/h (steam motive)... Discharge per cycle 475 liters



Typical Applications

- · Low pressure heating systems
- Process heat exchanger or coils with modulating steam control
- Remote installations (tracing, tank farms or remote coils)
- · Systems under vacuum
- · Hazardous (explosion proof) areas
- · Caustic environments
- Sumps or submersed areas

Table CRE-219-1. EPT-516 Pumping Trap Materials						
Name of Part	Description					
Cap, Body, Bolting	Fabricated Steel 10 bar ASME Sec. VIII Design "U" Stamp Coded					
Cap Gasket	Compressed Non-Asbestos					
Inlet Valve Assembly	Stainless Steel					
Vent Valve Assembly	Stainless Steel					
Mechanism Assembly: Frame, Float & Spring	Stainless Steel					

Notes: 21 bar ASME vessel available upon request. EPT-516 available in all stainless steel. Consult factory.

Armstrong EPT-516 Pump Trap Sizing and Selection

	Total Lift a:	Trap Capacities (600 mm Filling Hea EPT-516 4" x 4"		
Motive Pressure	Total Lift or Back Pressure			
	Dack 1 1635u16	Steam	Air	
bar	bar	kg/h	kg/h	
1,0		13 150	26 160	
1,7		16 870	28 110	
3,5	0,35	21 925	30 750	
5,0	0,33	24 890	32 300	
7,0		26 975	33 400	
10,0		29 930	On request	
1,7	1,0	16 670	23 055	
3,5		20 520	26 338	
5,0		23 180	28 258	
7,0		25 275	29 620	
10,0		28 570	On request	
2,5		13 260	20 990	
3,5		15 170	23 140	
5,0	1,5	17 500	25 575	
7,0		19 275	27 305	
10,0		21 965	On request	
3,5		11 900	18 725	
4,0		12 420	19 990	
5,0	3,0	13 055	21 535	
7,0		13 870	23 530	
10,0		15 025	On request	
4,5		11 790	14 540	
5,0	4.0	11 975	15 215	
7,0	4,0	12 730	18 590	
10,0		13 800	On request	

Notes: Above capacities are the results of **actual** steam testing using a minimum 93°C condensate. Published capacities are based on the use of external check valves supplied by Armstrong. Discharge per cycle: 475 liters.

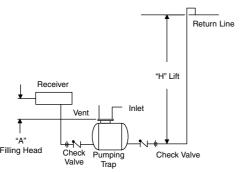


Table CRE-219-3. EPT-516 Capacity Conversion Factors for Other Fill Hea									
Model	Filling Head (mm)								
Monei	0	150	300	400	600	900			
EPT-516	0,7	0,75	0,8	0,85	1,0	1,08			

Note: Filling head is measured from drain of receiver to top of pump's cap.

Options

- Gauge Glass Assembly with Guards (Brass or Carbon Steel, Cadium Plated)
- Digital Cycle Counter (Open or Closed Systems; with or without Auxiliary contacts)
- Insulation Jacket

This pump might be suitable for special applications. Please consult factory

Application Data

- 1. Fluid to be pumped: 2. Temperature of fluid to be pumped:□°C Specific gravity: 4. Required flow rate: □ m³/h Equipment pressure: 🗅 Modulation 6. Fill head distance (A): □ mm Discharge condensate return line size: □ mm Motive gas: □ Steam □ Air □ Gas Motive pressure available: □ bar □ Other..... 10. Return line pressure: □ bar □ Other..... 11. Vertical lift (H): □ m 12. Can pump be vented to atmosphere? □ Yes 13. Is there a condensate
- 13. Is there a condensate reservoir? Yes □ No If yes, what size?..
- 14. Is reservoir vented? □ Yes15. Would you like Armstrong to quote on a packaged
 - pre-piped engineered system? . .□ Yes □ No

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.