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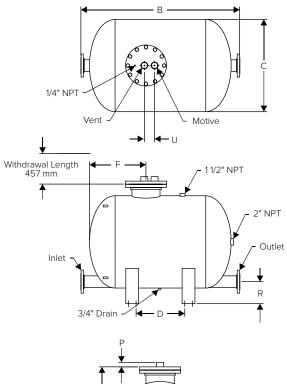


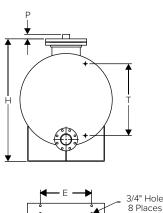
EPT-516 High Capacity Pumping Trap

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
- 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-226)
- 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

Table CRE-238-1. EPT-516 Pumping Trap Physical Data				
	mm			
Inlet Connection	4" 150# ANSI Flg DN100 PN40			
Outlet Connection	4" 150# ANSI Flg DN100 PN40			
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 (2014/68/UE).

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

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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-239-1. EPT-516 Pumping Trap Materials				
Name of Part	Description			
Cap, Body, Bolting	Fabricated Carbon Steel ASME VIII division I - ASTM A106 GrB / ASTM A516 Gr60 / ASTM A105			
Cap Gasket	Compressed Non-Asbestos			
Inlet Valve Assembly	Stainless Steel			
Vent Valve Assembly	Stainless Steel			
Mechanism Assembly: Frame, Float & Spring	Stainless Steel			

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

Armstrong EPT-516 Pump Trap Sizing and Selection

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Table CRE-239-2. EPT-516 Pumping Trap Capacities (600 mm					
Filling Head)					
	Total Lift or	EPT-516			
Motive Pressure	Back Pressure	4" x 4"			
	Back Flessule	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		24 890	32 300		
7,0		26 975	33 400		
10,0		29 930	On request		
1,7		16 670	23 055		
3,5		20 520	26 338		
5,0	1,0	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		
7,0		10 837	15 827		
8,5	5,5	10 991	On request		
10,0		11 145	On request		

Note: 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.

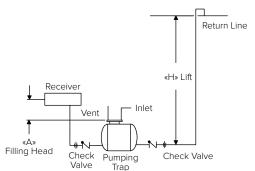


Table CRE-239-3. EPT-516 Capacity Conversion Factors for Other Fill Heads				r Other		
Madal	Filling Head (mm)					
Model	0	150	300	400	600	900
EPT-516	0,7	0,75	0,8	0,85	1,0	1,08

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

۱.	, Piik	ation Data				
	1.	Fluid to be pumped:				
	2.	Temperature of fluid				
		to be pumped:		°C		
	3.	Specific gravity:				
	4.	Required flow rate:		m ³ /h	□ kg/h	
	5.	Equipment pressure:		Modulation		
		Min to Max				
	6.	Fill head distance (A):				
	7.	Discharge condensate				
	•	return line size:	П	mm		
	8.	Motive gas:			□ Air	□ Ga:
	9.	Motive pressure available:			□ Other	
	10.	Return line pressure:			□ Other	
	11.	Vertical lift (H):			- Other	
	12.	Can pump be vented	Ц	111		
	12.	to atmosphere?		Voc	□ No	
	13.	Is there a condensate	Ц	ies	□ INO	
	15.			Voc	□ No	
		reservoir?	Ц	res	□ No	
	4.4	If yes, what size?		\/	- N-	
	14.	Is reservoir vented?	Ц	Yes	□ No	
	15.	· · · · , · · · · · · · · · · · · · · · · · · ·				
		to quote on a packaged	_			
		pre-piped engineered syster	n?□	Yes	□ No	