

Double Duty® 4 Steam Trap/Pump Combination

Description

Armstrong's Double Duty® Series steam trap/pump combination offers a low profile solution to draining heat exchangers in various applications.

The Double Duty® 4 is a low profile pump that offers you the versatility of combining a pump within a steam trap to aide in condensate drainage from a heat exchanger under all operating conditions.

Features

- · Economical. non-electric operation
- · Low-maintenance operation. No leaking seals, impeller or motor problems. No NPSH issues.
- · Space-saving size. Low-profile body fits in tight spaces while allowing minimal fill head.
- · Lower installation costs. Single trade installation.
- · Peace of mind. Intrinsically safe.
- · Ductile iron durability. Rugged construction material means long service life.
- · 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 trap/pump can be used in pits or sumps without fear of electrocution or circuit breaker defaults.

Maximum Operating Conditions

Maximum allowable pressure DD-4 72 psig @ 320°F (5 bar @ 160°C)

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Materials

Body:	Ductile iron
Mechanism:	All stainless steel
Springs: 304	Stainless steel
Float:	All stainless steel

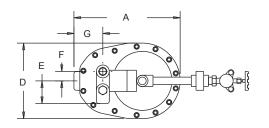
ALPHA GROUP

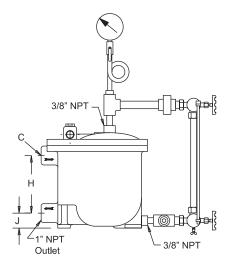
For a fully detailed certified drawing, refer to CD-2030.

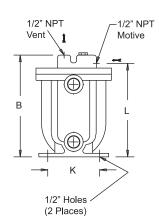
Double Duty [®] 4 Physical Data				
	in	mm		
"A"	11-3/16	284		
"B"	10-13/16	274		
"C"	1	25		
"D"	8	203		
"E"	2-7/16	61		
"F"	1	25		
"G"	3	76		
"Н"	6-1/8	155		
"J"	1-5/8	41		
"K"	5-1/2	140		
"L"	9-15/16	251		
Weight lb (kg)	37 (17)			



Double Duty® 4







*last updated 11/15





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Steam Trap/Pump Combination

Double Duty [®] 4 Pump Capacities					
Mo	tive	Back Pressure		Capacity	
psi	bar	psi	bar	lb/hr	kg/hr
15 25 50 70	1 1.7 3.5 4.5	5	0.34	220 300 348 350	100 136 158 159
25 50 70	1.7 3.5 4.5	15	1	220 345 348	100 156 158
35 50 70	2.5 3.5 4.5	25	1.5	220 325 348	100 147 158
50 60 70	3.5 4 4.5	40	2.75	220 300 335	100 136 152
70	4.5	60	4	220	100

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.

Double Duty [®] 4 Trap Capacities				
Differentia	I Pressure	Сар	acity	
psi	bar	lb/hr	kg/hr	
5	0.34	1,342	610	
10	0.7	1,980	900	
20	1.4	2,860	1300	
30	2.1	3,410	1550	
40	3	3,795	1725	
50	3.4	4,070	1850	
60	4.1	4,235	1925	
70	4.8	4,400	2000	

Capacity Conversion Factors for Other Filling Heads				
Filling Head				
in	0	2	6	
mm	0	50	152	
Double Duty DD-4	.65	1.0	1.10	

NOTE: Fill head measured from drain to top of cap.

*last updated 11/15