



Double Duty® 6

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® 6 is an ASME code stamped carbon steel vessel. The Double Duty® 6 offers you the versatility of combining a pump within a steam trap to aide in condensate drainage 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.
- ASME Carbon Steel 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-6 200 psig @ 400°F (14 bar @ 204°C)

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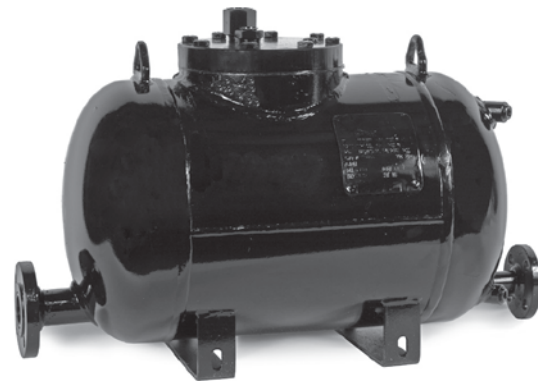
Materials

Body: ASME Code Stamped Carbon Steel

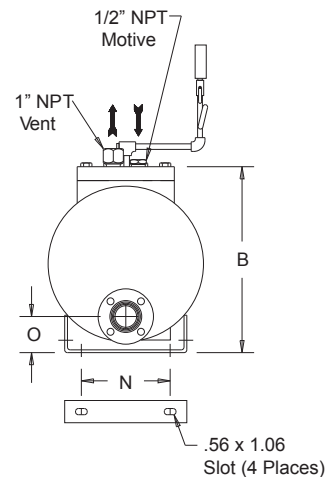
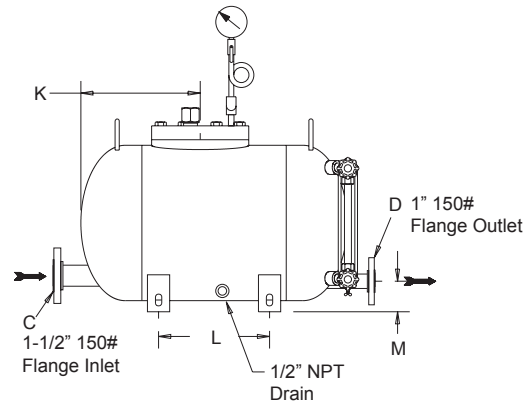
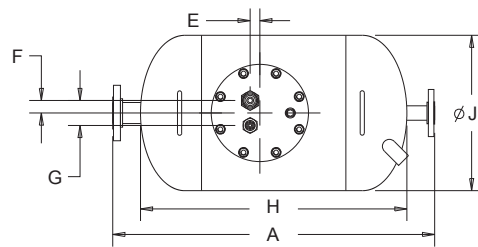
Springs: Inconel X-750

Internals: All stainless steel

For a fully detailed certified drawing, refer to CD2035.



Double Duty® 6



Double Duty® 6 Physical Data		
	in	mm
"A"	29	737
"B"	16-11/16	424
"C"	1-1/2	38
"D"	1	25
"E"	7/8	22
"F"	1-1/8	28
"G"	2-1/4	57
"H"	24	610
"J"	14	356
"K"	10-13/16	275
"L"	10	254
"M"	2-13/16	71
"N"	8	203
"O"	3-3/16	81
Weight lb (kg)	140 (64)	

*last updated 11/15



Double Duty® 6 Pump Capacities							
Motive		Back Pressure		Capacity			
psi	bar	psi	bar	lb/hr	kg/hr		
15	1	5	0.34	2,400	1,089		
25	1.7			3,000	1,361		
50	3.5			4,000	1,814		
75	5			4,500	2,041		
100	7			4,600	2,087		
125	8.5			4,700	2,132		
150	10.34			4,800	2,177		
175	12			4,800	2,177		
200	14			4,600	2,087		
25	1.7			15	1	2,000	907
50	3.5	2,800	1,270				
75	5	3,400	1,542				
100	7	3,600	1,633				
125	8.5	3,700	1,678				
150	10.34	3,800	1,724				
175	12	3,600	1,633				
200	14	3,500	1,588				
35	2.5	25	1.5			1,800	816
50	3.5					2,300	1,043
75	5			2,900	1,315		
100	7			3,000	1,361		
125	8.5			3,000	1,361		
150	10.34			2,900	1,315		
175	12			2,500	1,134		
200	14	2,300	1,043				
50	3.5	40	2.75	1,400	635		
75	5			2,000	907		
100	7			2,400	1,089		
125	8.5			2,500	1,134		
150	10.34			2,500	1,134		
175	12			1,800	816		
200	14	1,700	771				
75	5	60	4	1,500	680		
100	7			1,800	816		
125	8.5			2,000	907		
150	10.34			1,700	771		
175	12			1,500	680		
200	14			1,400	635		

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® 6 Trap Capacities			
Differential Pressure		Capacity	
psi	bar	lb/hr	kg/hr
2	0.14	9,500	4,309
5	0.34	12,400	5,625
10	0.7	15,000	6,804
25	1.5	20,400	9,253
50	3.5	22,500	10,206
75	5.2	22,500	10,206
100	6.9	22,500	10,206
150	10.3	22,500	10,206
200	13.8	22,500	10,206

Capacity Conversion Factors for Other Filling Heads				
Filling Head				
in	0	6	12	* 24 or greater
mm	0	150	305	* 620 or greater
Double Duty DD-6	0.7	1.0	1.08	* Consult factory

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