



# 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

- Non-Electric
- Low profile for tight space requirements
- Inconel X-750 springs
- ASME code stamped to 200 psig (available in stainless steel)
- All stainless steel internals
- Externally removable vent/motive seats

## Maximum Operating Conditions

Maximum allowable pressure  
DD-6 200 psig @ 400°F (14 bar @ 204°C)

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DD-6 200 psig @ 400°F (14 bar @ 204°C)

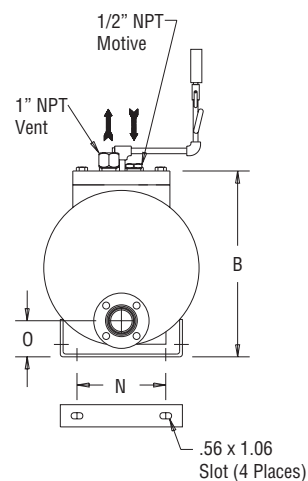
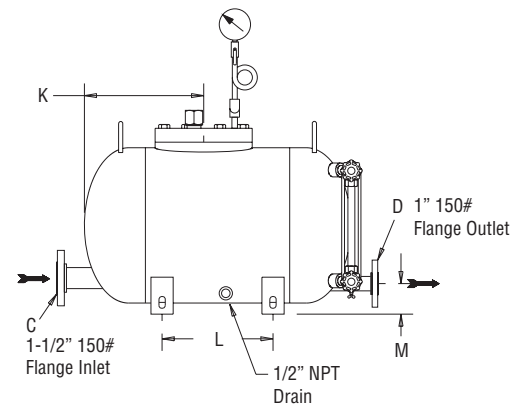
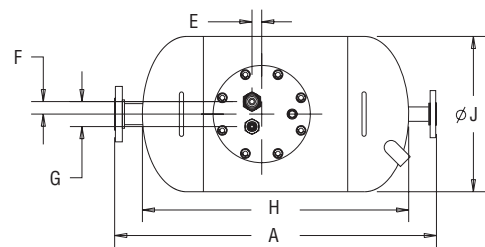
## Materials

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)	

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

# Double Duty™ 6

## Steam Trap/Pump Combination



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	1.7	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	3	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
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	1.7	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				
	0	6	12	* 24 or greater
in	0	150	305	* 620 or greater
mm	0	150	305	* 620 or greater
Double Duty DD-6	0.7	1.0	1.08	* Consult factory

\* Discharge per cycle typically 3.5 gallons for DD-6.  
NOTE: Fill head measured from drain to top of cap.