Double Duty® 6

Steam Trap/Pump Combination

Armstrong

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

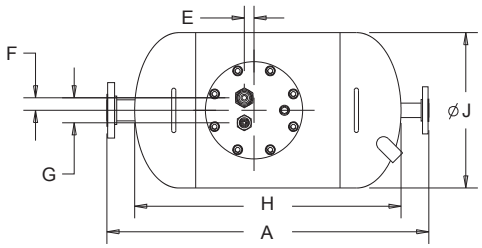
Materials

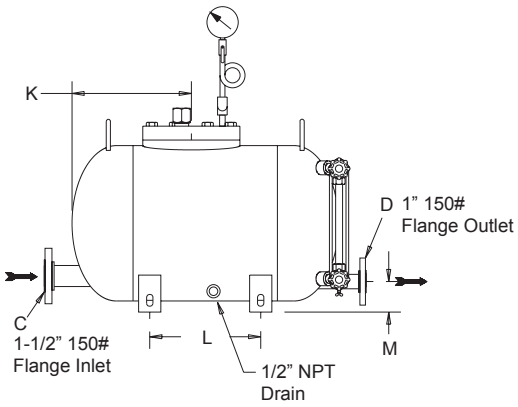
Body:	ASME Code Stamped Carbon Steel
Springs:	Inconel X-750
Internals:	All stainless steel

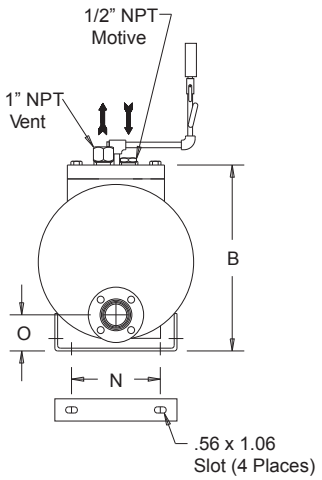
For a fully detailed certified drawing, refer to CD2035.

Double Duty® 6 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)	

Double Duty® 6







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ALPHA GROUP

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.