



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 heat is 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:

EDD-4 5 bar @ 160°C

Maximum operating pressure:

EDD-4 5 bar @ 160°C

Materials

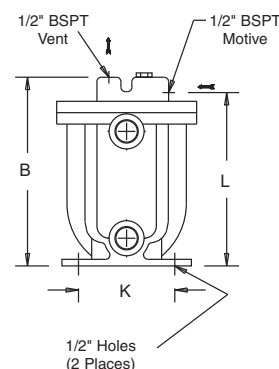
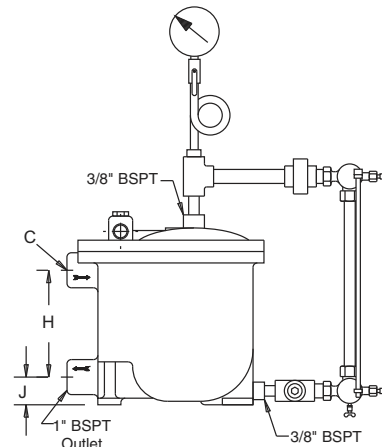
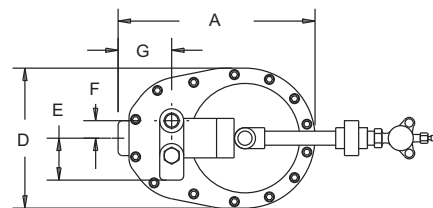
Body: Ductile iron
 Mechanism: All stainless steel
 Springs: 304 Stainless steel
 Float: All stainless steel

Table CRE-234-1. Double Duty® 4 Physical Data

	mm
"A"	284
"B"	274
"C"	1"
"D"	203
"E"	61
"F"	25
"G"	76
"H"	155
"J"	41
"K"	140
"L"	251
Weight kg	17



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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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Table CRE-235-1. Double Duty® 4 Pump Capacities

Motive	Back Pressure	Capacity
bar	bar	kg/hr
1	0,34	100
1,7		136
3,5		158
4,5		159
1,7	1	100
3,5		156
4,5		158
2,5	1,7	100
3,5		147
4,5		158
3,5	3	100
4		136
4,5		152
4,5	4	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.

Table CRE-235-3. Capacity Conversion Factors for Other Filling Heads

mm	Filling Head		
	0	150	305
Double Duty EDD-4	0,65	1,0	1,10

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

Table CRE-235-2. Double Duty® 4 Trap Capacities

Differential Pressure	Capacity
bar	kg-hr
0,34	610
0,7	900
1,4	1 300
2,1	1 550
3	1 745
3,4	1 850
4,1	1 925
4,8	2 000

Condensate Recovery
Equipment