



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:

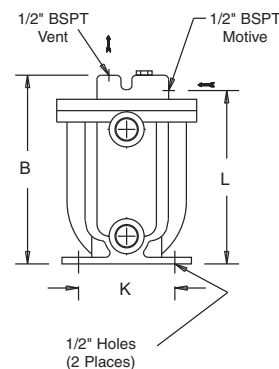
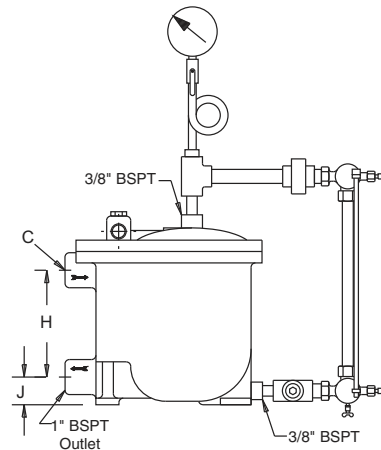
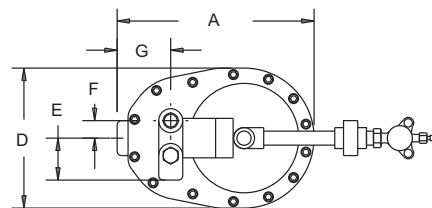
EDD-4 5 bar @ 160°C

Materials

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



Double Duty® 4



| 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 |

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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| 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.

| 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.

| 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