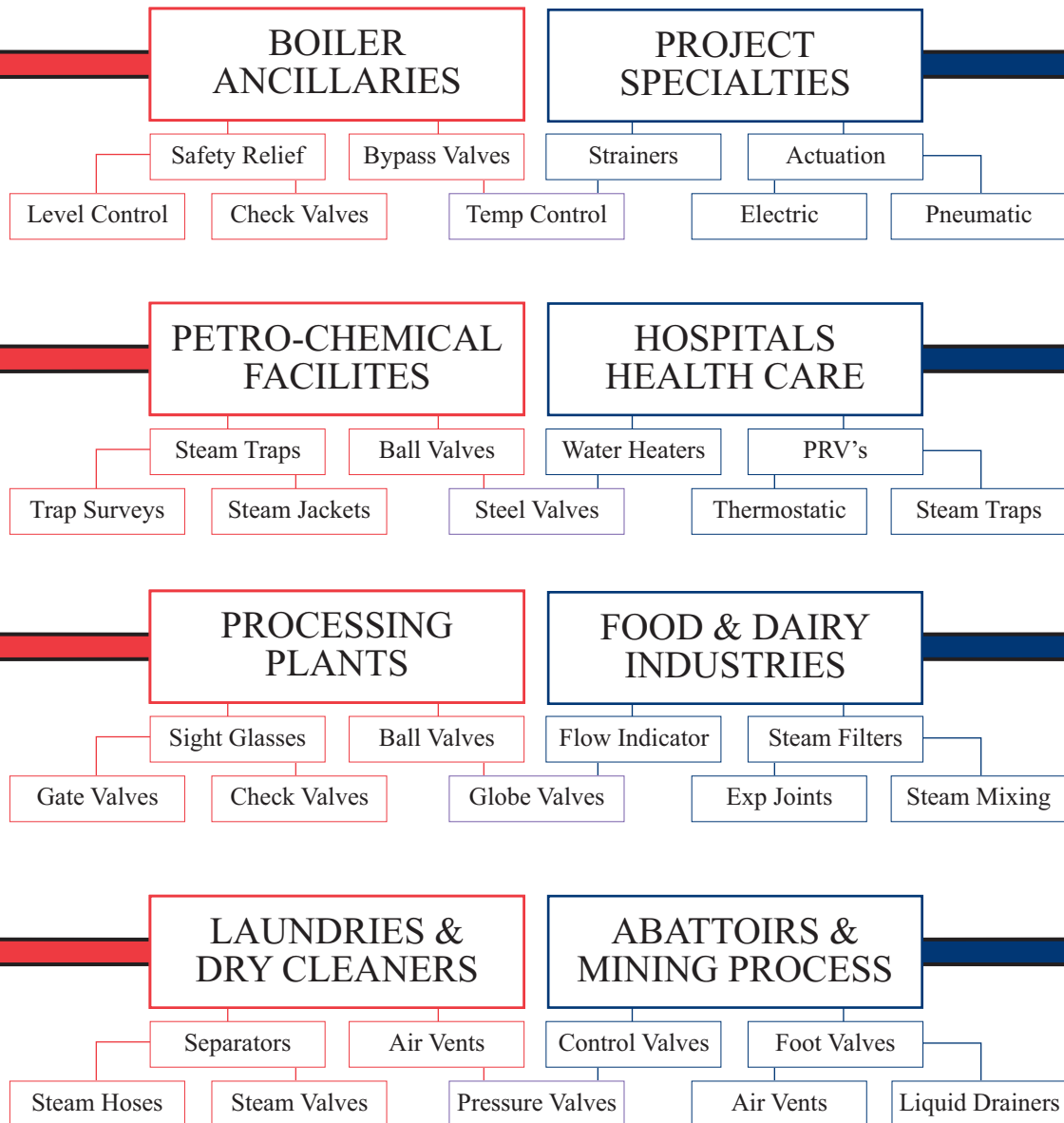


# ARMSTRONG STEAM & ENGINEERING

Pty. Ltd.

## Valves, Actuators & Pipeline Specialties



## From Concept to Conclusion



# Free Floating Guided Lever Drain Traps

For Loads to 9,500 lb/hr (4,309 kg/hr)...Pressures to 570 psig (39 bar)

Armstrong's stainless steel, free-floating guided lever drain traps use the same bodies, caps, lever mechanisms, valves and seats of Armstrong inverted bucket steam traps that have been proven in years of service. Elliptical floats and high leverage make it possible to open large orifices to provide adequate capacity for drain trap size and weight.

The hemispherical valve, seat and leverage of the 11-LD, 22-LD and 13-LD stainless steel traps are identical in design, materials and workmanship to those for saturated steam service up to 570 psig (39 bar) with the exception of the addition of a guidepost to assure a positive, leaktight valve closing under all conditions.

## List of Materials

| Model No.               | Valve & Seat    | Leverage System | Float | Body & Cap                         | Gasket |
|-------------------------|-----------------|-----------------|-------|------------------------------------|--------|
| 11-LD<br>22-LD<br>13-LD | Stainless Steel |                 |       | Sealed<br>Stainless Steel,<br>304L | —      |

For information on special materials, consult the Armstrong Application Engineering Department.

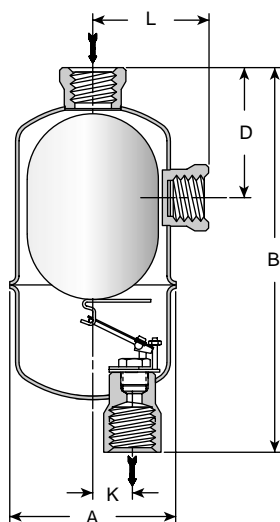


Figure LD-34.

No. 11-LD, 22-LD and 13-LD stainless steel guided lever liquid drain trap with sealed, tamperproof construction.



## Physical Data

| Model No.                               | Stainless Steel   |     |   |     |   |     |
|---|---|-----|---|-----|---|-----|
|   | 11-LD**   |     | 22-LD   |     | 13-LD   |     |
| Pipe Connections                        | in  | mm  | in  | mm  | in  | mm  |
|   | 3/4*  | 20* | 3/4   | 20  | 1   | 25  |
| "A"                                     | 2-3/4   | 70  | 3-15/16   | 100 | 4-1/2   | 114 |
| "B"                                     | 7-1/4   | 184 | 8-13/16   | 224 | 11-3/8  | 289 |
| "D"                                     | —   | —   | 3   | 76  | 6-1/8   | 156 |
| "K"                                     | 9/16  | 14  | 7/8   | 22  | 1-3/16  | 30  |
| "L"                                     | —   | —   | 2-5/8   | 67  | 3-9/32  | 83  |
| Approx. Wt. lbs (kg)                    | 1-3/4 (0.79)  |     | 3-1/4 (1.5)   |     | 7-1/2 (3.4)   |     |
| Max. Allowable Pressure (Vessel Design) | 500 psig @ 100°F (35 bar @ 38°C)<br>440 psig @ 500°F (30 bar @ 260°C) |     | 600 psig @ 100°F (41 bar @ 38°C)<br>475 psig @ 500°F (33 bar @ 260°C) |     | 570 psig @ 100°F (39 bar @ 38°C)<br>490 psig @ 500°F (34 bar @ 260°C) |     |

**Note:** Vessel design pressure may exceed float collapse pressure in some cases. Pipe size of vent connection is same as that of inlet and outlet connections.

\*1/2" (15 mm) outlet. \*\*No side connection.

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