



Free Floating 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 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.

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.

For a fully detailed certified drawing, refer to list below:

11-LD CD #1066

13-LD and 22-LD CD #1086

List of Materials

Table LD-17.					
Model No.	Valve & Seat	Leverage System	Float	Body & Cap	Gasket
11-LD	Stainless Steel			Sealed Stainless Steel, 304L	--
22-LD					
13-LD					

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

The hemispherical valve, seat and leverage of the 11-LD,

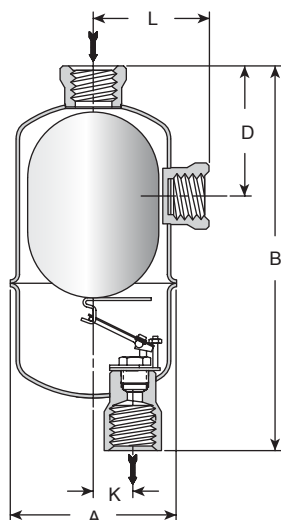


Figure LD-34.

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



Physical Data

Table LD-18. Armstrong Guided Lever Liquid Drain Traps						
Model No.	Stainless Steel					
	11-LD**		22-LD		13-LD	
	in	mm	in	mm	in	mm
Pipe Connections (Inlet x Outlet)	3/4 x 1/2, 3/4 x 3/4	20 x 15, 20 x 20	3/4 x 3/4	20 x 20	1 x 1	25 x 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) 440 psig @ 500°F (30 bar @ 260°C)		600 psig @ 100°F (41 bar @ 38°C) 475 psig @ 500°F (33 bar @ 260°C)		570 psig @ 100°F (39 bar @ 38°C) 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.

**No side connection.