

Free Floating Lever Drain Traps

Armstrong's cast iron, 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.

2-LD, 3-LD and 6-LD cast iron traps are identical in design, materials and workmanship to those for saturated steam service up to 300 psig (21 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
1-LD 2-LD 3-LD 6-LD	Stainless Steel			Cast Iron ASTM A48 Class 30	Compressed Asbestos-free

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

For a fully detailed certified drawing, refer to:

1-LD CD #1070

2-LD, 3-LD, 6-LD CD #1034

The hemispherical valve, seat and leverage of the 1-LD,

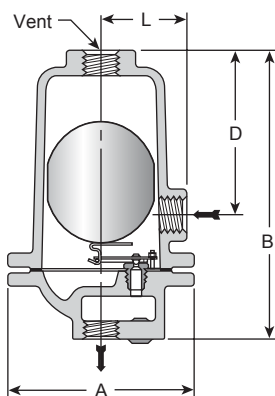


Figure LD-33.

No. 2-LD, 3-LD and 6-LD cast iron guided lever drain traps. No. 1-LD has standard top inlet and optional side connection.



Physical Data

Model No.	Cast Iron							
	1-LD**		2-LD		3-LD		6-LD	
Pipe Connections	in	mm	in	mm	in	mm	in	mm
	1/2*, 3/4*	15*, 20*	1/2, 3/4	15, 20	1/2, 3/4, 1	15, 20, 25	1-1/2, 2	40, 50
"A"	3-3/4	95	5-1/4	133	6-3/8	162	10-3/16	259
"B"	5-1/2	140	8-3/4	222	11-1/2	292	18	457
"D"	2-7/8	73	5-1/8	130	7	188	9-3/8	238
"K" (Q Outlet to Q Inlet)	13/16	21	—	—	—	—	—	—
"L"	1-7/8	48	2-7/16	62	2-7/8	73	4-5/8	117
Approx. Wt. lb (kg)	4 (2)		12 (5.5)		21 (9.5)		78 (35.5)	
Max. Allow. Pressure (Vessel Design)	300 psig @ 200°F† (21 bar @ 93°C)		250 psig @ 450°F (17 bar @ 232°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.

†For pressures not exceeding 250 psig (17 bar), a maximum temperature of 450°F (232°C) is allowed.

* Inlet 1/2" (15 mm), Outlet 1/4" (8 mm)

* Inlet 3/4" (20 mm), Outlet 1/4" (8 mm)

** 1-LD available with side connection if specified on order. On models 2-LD, 3-LD and 6-LD, pipe size of side connections is same as that of inlet and outlet connections