1-LDC – A See-Thru Body So You'll Know When It's Working

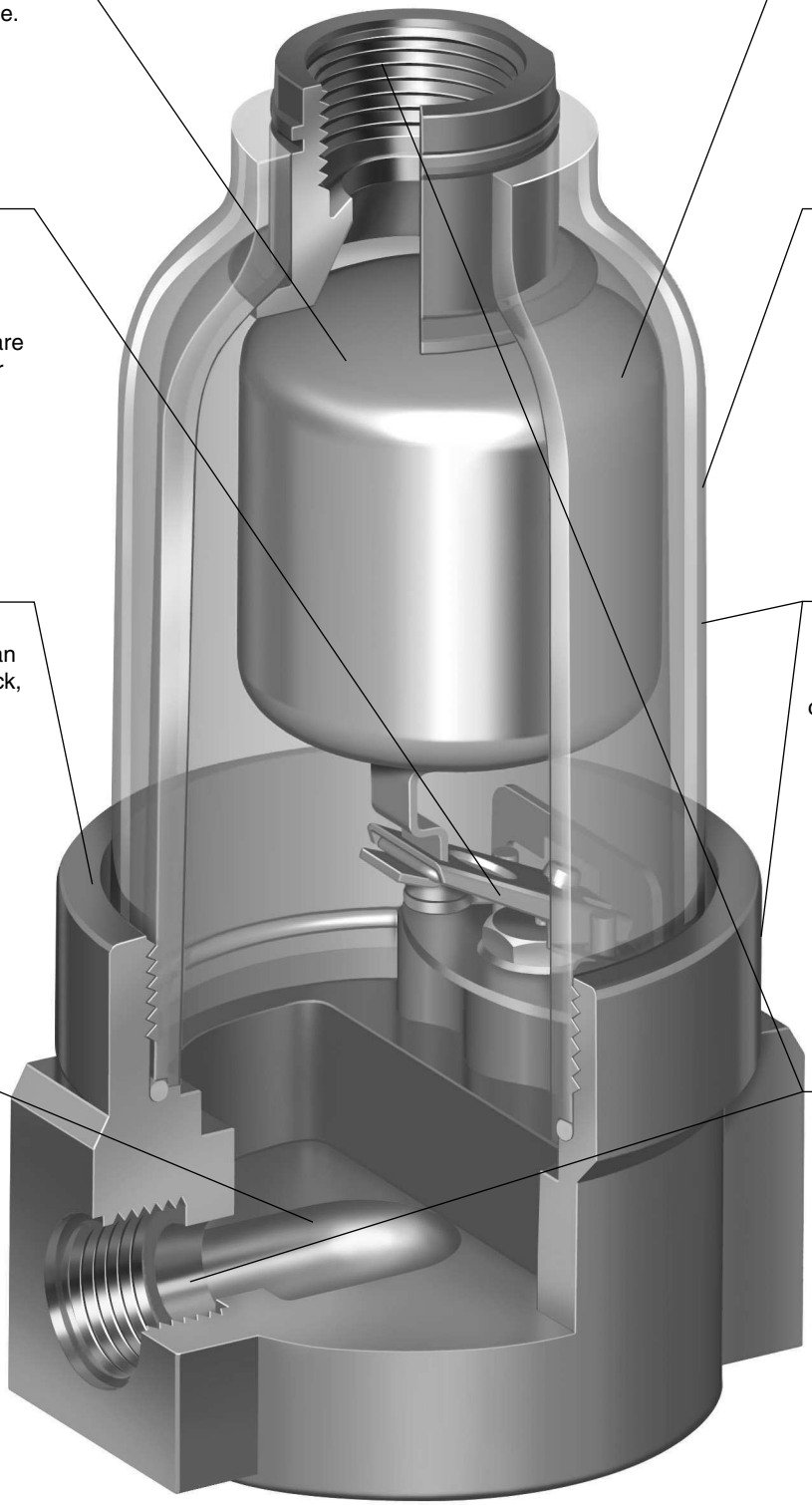
Benefits You Can See

Reduced maintenance
Stainless steel internals mean corrosion resistance and reduced maintenance.

Positive seating
Free-floating valve mechanism assures positive seating so it prevents air loss. There are no fixed pivots to wear or create friction, and wear points are heavily reinforced for long life.

In-line repairability
In-line connections and an O-ring seal make for quick, easy repairs without dismantling piping. Just unscrew and remove the body for maintenance.

Reduced need for cleaning
Recessed dirt pocket gives dirt a place to accumulate away from the valve seat. Valve seat is 32 mm above the dirt pocket. Compared to other ball float drain traps, the Armstrong 1-LDC reduces dirt fouling and needs less frequent cleaning.



Efficient operation
Simple ball float mechanism discharges only when liquid is present so it doesn't waste air.

An inside look
See-thru body means you can observe changing conditions as they occur. See a problem in the making – instead of having to deal with it after the fact.

Corrosion resistance
Long-lasting polysulfone body and reinforced nylon cap weigh less than 20% of cast iron liquid drain traps. Rugged polysulfone resists corrosion and provides long, trouble-free service life.

Simplified installation
Optional horizontal or vertical inlet with horizontal outlet eliminates the need for extra fittings. Makes installation in existing systems easier. Vertical inlet is 3/4" to accommodate air venting. Requires no electricity.

Note: The Armstrong 1-LDC is not recommended for extremely dirty systems or those with heavy oil carryover. The drain trap should not be used in an environment where there are high levels of ketones or chlorinated or aromatic hydrocarbons.

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Now, you can literally see what you've been missing – the early warning signs of a drain trap or system problem. Since you'll *know* the operating condition of a drain trap, you won't waste time and money scheduling maintenance that isn't needed. In other words, you will be able to react to a condition before it becomes a problem.

A simple ball float mechanism requiring no electricity to operate, the new Armstrong 1-LDC discharges automatically *only* when liquid is present. That means no air loss as with timed devices, which open even when liquid is not present.

Moisture in a compressed air system causes a variety of problems – everything from dirt fouling and potential corrosion to water hammer. Getting the water out – automatically, reliably – builds greater efficiency into your system. In short, pay attention to your com-pressed air system, and you'll probably pay less to compress air.

Compare…and Save the Difference

Seeing really is believing – especially when you compare the Armstrong see-thru drain trap with cast iron units. Measure the differences in the time and money you can save with a more efficient, easier-to-maintain compressed air system. For more information or technical assistance, contact your local Armstrong Representative.

1-LDC See-Thru Liquid Drainer

For Loads to 690 kg/h...Pressures to 10 bar

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A simple ball float mechanism needing no electricity to operate, the 1-LDC discharges automatically only when liquid is present. That means no air loss as with timed devices that open even when liquid is not present. Moisture in a compressed air system causes problems. Getting the water out – automatically, reliably – builds greater efficiency into your system.

Table LD-446-1. 1-LDC List of Materials

Name of Part	Material
Cap and Fitting	Reinforced Nylon
Body	Polysulfone*
O-Rings (Cap, Body and Fitting)	Nitrile Elastomer Compound
Float, Lever and Screws	Stainless Steel
Valve & Seat	
Retainer Ring	Zinc-Plated Steel

* UV sensitive

Table LD-446-2. 1-LDC Maximum Operation Pressures and Capacities

Specific Gravity	1,0		0,95	
Orifice Size	Maximum Operating Pressure	Capacity	Maximum Operating Pressure	Capacity
	bar	kg/h	bar	kg/h
1/8"	8,3	690	7,6	640
#38	10,0	510	10,0	490

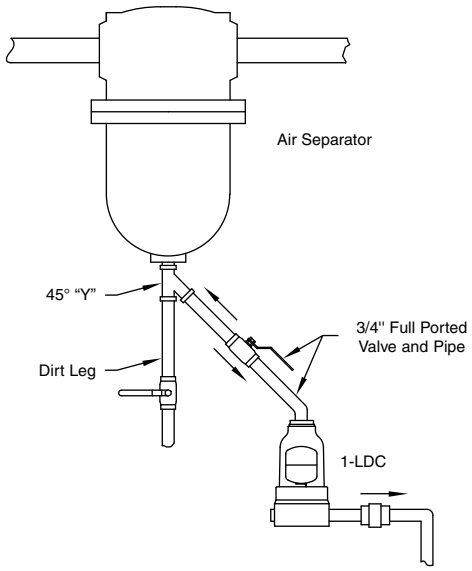
Capacities given are continuous discharge capacities in kg/h of liquid at pressure differential indicated.

Table LD-446-3. 1-LDC Physical Data

	mm
Inlet Connections	15
Outlet Connection	15
Alternate Inlet or Vent Connection	15
"A"	89
"B"	175
"C"	155
Weight in kg (screwed)	0,45
Maximum Allowable Pressure (Vessel Design)	10 bar @ 65°C
Maximum Operating Pressure	10 bar

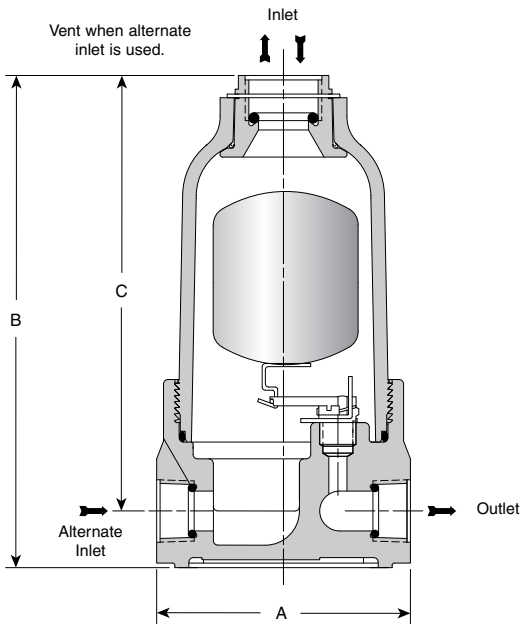
All sizes comply with the article 3.3 of the PED (97/23/EC).

Figure LD-446-1.
Typical Drain Trap Location



Drain traps dispose of water that collects in many places in a compressed air system. Each drain trap arrangement must be considered individually.

Figure LD-446-2.



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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