



# Armstrong® 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.

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

**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.

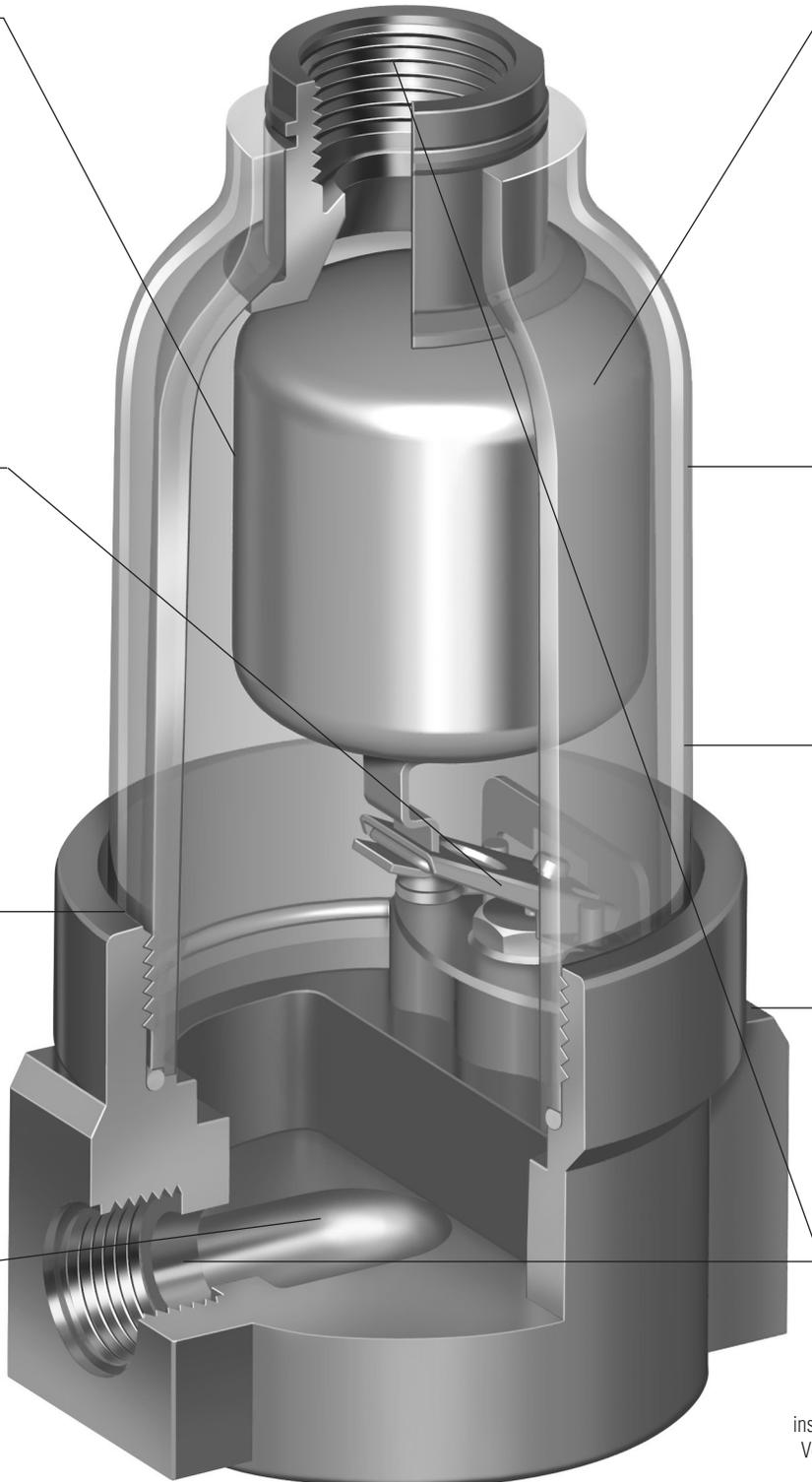
**An inside look**  
See-thru body means you can observe changing conditions as they occur. See a problem in the making—instead of having to deal with it after the fact.

**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.

**Corrosion resistance**  
Long-lasting polycarbonate 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.

**Reduced need for cleaning**  
Recessed dirt pocket gives dirt a place to accumulate *away* from the valve seat. Valve seat is 1-1/4" above the dirt pocket. Compared to other ball float drain traps, the Armstrong 1-LDC reduces dirt fouling and needs less frequent cleaning.

**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.

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.

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



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 compressed 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.



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# 1-LDC See-Thru Liquid Drainer

For Loads to 1 500 lb/hr (690 kg/hr)...Pressures to 150 psig (10 barg)

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'll be able to react to a condition before it becomes a problem.

A free floating mechanism needs 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.

## List of Materials

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

\*UV sensitive

## Maximum Operation Pressures and Capacities

Specific Gravity	1.0				0.95			
	Maximum Operating Pressure		Capacity		Maximum Operating Pressure		Capacity	
	psig	barg	lb/hr	kg/hr	psig	barg	lb/hr	kg/hr
1/8	121	8.3	1 500	690	109	7.6	1 400	640
#38	150	10.0	1 100	510	150	10.0	1 100	490

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

## Physical Data

Inlet Connections	in	mm
	1/2, 3/4	15, 20
Outlet Connection	1/2	15
Alternate Inlet or Vent Connection	1/2, 3/4	15, 20
"A"	3-1/2	89
"B"	6-7/8	175
"C"	6-3/32	155
Weight lbs (kg)	1 (0.45)	
Maximum Allowable Pressure (Vessel Design)	150 psig @ 150°F (10 barg @ 65°C)	
Maximum Operating Pressure psig (barg)	150 (10)	

## How to Order

Body Inlet ①	Cap Inlet ②	Cap Outlet ③
3/4"	1/2"	1/2"
1/2" or 3/4"	1/2" or 3/4"	1/2"

For a fully detailed certified drawing, refer to CD #1031.

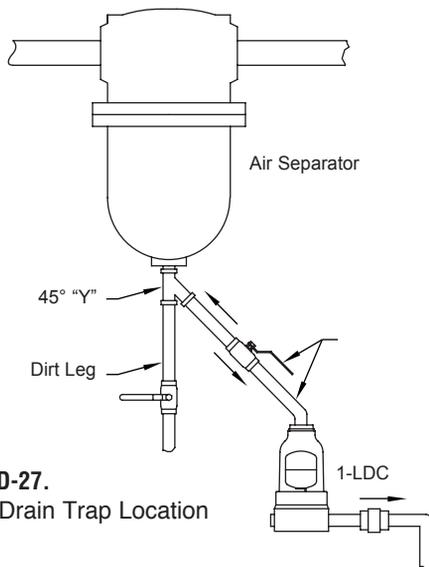
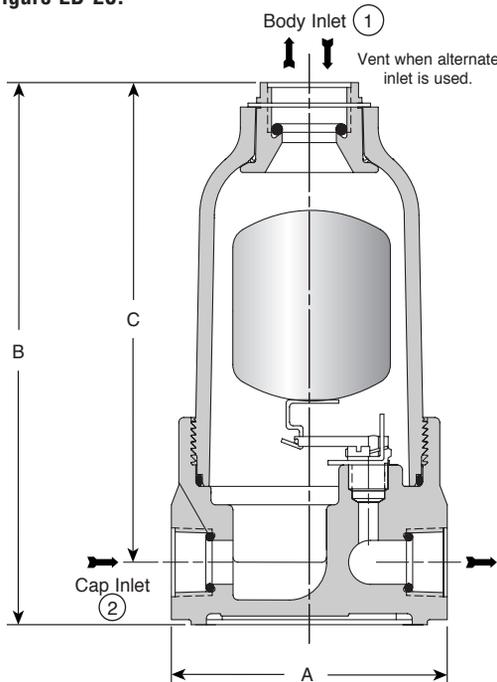


Figure LD-27. Typical Drain Trap Location

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-28.



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