Typical Installations

Model 1LDC Liquid Drainer

This bulletin should be used by experienced personnel as a guide to typical installations of the Model 1LDC Liquid Drainer. Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact Armstrong International or its local representative if further information is required. To obtain a copy of a complete installation and maintenance bulletin, contact Armstrong International.

Caution

Do not use channel locks or pipe wrenches on the clear polysulfone body!
Hand Tighten Only!

The polysulfone body is sensitive to certain liquids. Reference the Polysulfone Chemical Resistance Chart below to determine if your operating environment is compatible with the 1LDC's body material.

Maximum Allowable Pressure (vessel design)
150 psig @ 150 °F 10 bar @ 65 °C

Polysulfone Chemical Resistance Chart
Applied Load 150 psig (10 bar)

Environment	Concentration %	Ratings at Temperature	
		72°F (22°C)	140°F (60°C)
Automotive Products			
ASTM Oil #1	100	—	500 hours
ASTM Oil #2		24 hours	24 hours
ASTM Oil #3			500 hours
Motor Oil #10		500 hours	—
Grease			
Brake Fluid (Allstate)		R 1 hour	
Prestone (Anti-freeze)		500 hours	
Gasoline (Sunoco 2000)		C 70 hours	
Gasoline (Amoco)		R 2 hours	
Organic Chemicals: (Ketones, Chlorinated & Aromatic Hydrocarbons)			
Acetic Acid	20	500 hours	—
Oleic Acid	100		
Ethanol			
n-Heptone			
Ethyl Acetate		R < 1 hour	
Acetone			
Acetone / Water	5% Acetone / 50% Acetone	> 24 hours	
Methyl Ethyl Ketone (MEK)	100	R < 2 hours	
MEK / Water	20% MEK / 40% MEK	> 24 hours	
Toluene	100	R < 2 hours	
Toluene / Water	.05% Toluene	C < 2 hours	
Carbon Tetrachloride	100	CR < 1 hour	
I,I,I, -Trichloroethane	0.05	R < .01 hour	
2-Ethoxyethano (cellosolve)	100	C < 24 hours	
VM & P Naptha		> 24 hours	
Linseed Oil		500 hours	
Turpentine		R 15 hours	
Napthalene	Vapors	> 24 hours	
Inorganic Chemicals			
Sulfuric Acid	10	500 hours	—
Hydrochloric Acid	20		
Sodium Hydroxide	50	24 hours	
Ammonia	29		
Sodium Hypochlorite (Clorox)	5.25	500 hours	

Key to ratings: Number indicates hours under stress. Letter (C=crazing; CR = cracks; R = rupture) indicates effect. No letter indicates test terminated with no adverse affects. **Chemical resistance data given in this chart should only be used as a guide, consult Armstrong International for further information.**

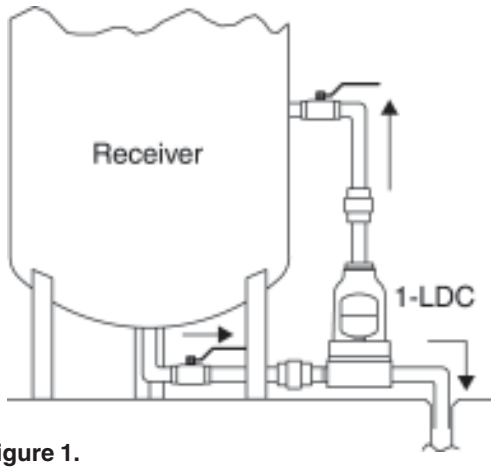

Figure 1.
Drainer installed below receiver will drain liquid. Pipe the vent above the liquid level.

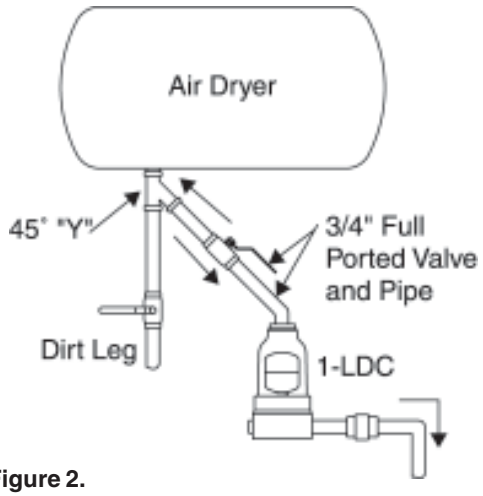

Figure 2.
Drainer installed below dryer. Plug side inlet. Use top inlet and ¾" pipe. A full ported valve must be used. Keep piping as short as possible.

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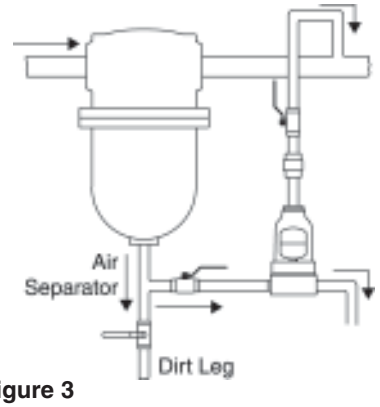

Figure 3
Drainer installed to remove water from separator.

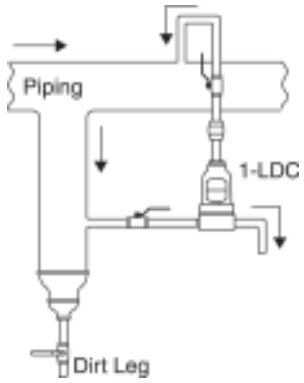

Figure 4
Drainer installed to remove water from horizontal air distribution line.

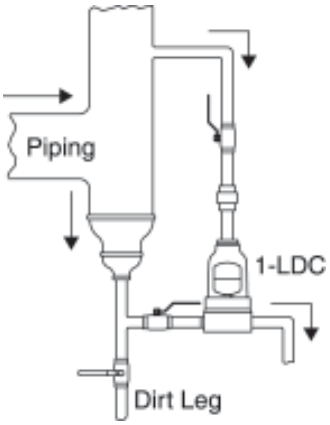

Figure 5
Drainer installed to remove water from air distribution line.

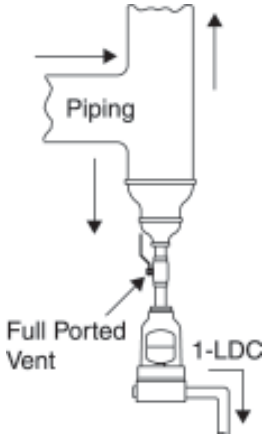

Figure 6
Drainer installed to remove water from air distribution line. Plug side inlet. Use top inlet and ¾" pipe. A full ported valve must be used. Keep ¾" piping as short as possible.

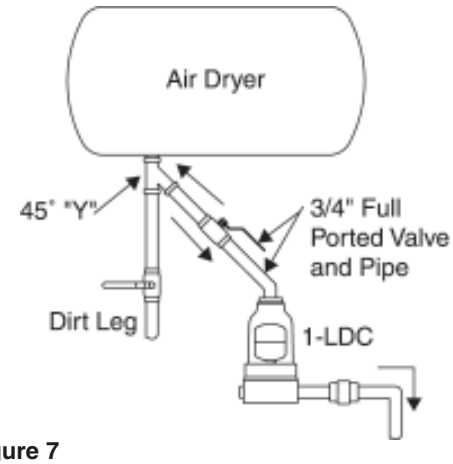

Figure 7
Drainer installed to remove small amounts of liquid from separator. Plug side inlet. Use top inlet and ¾" pipe. A full ported valve must be used. Keep piping as short as possible.

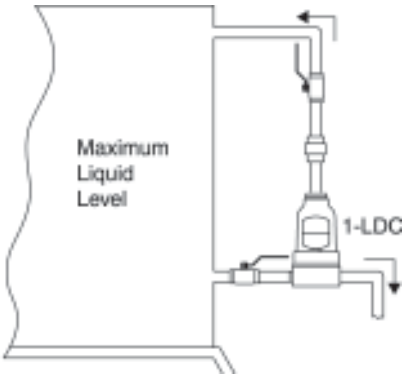

Figure 8
Drainer installed as an automatic liquid level control. Install drainer at the level to be maintained.