

# LIQUID DRAINERS

## WLD1500 Series

### Inverted Bucket Liquid Drain Trap

Watson McDaniel reserves the right to change the designs and/or materials of its products without notice.  
©2002 Watson McDaniel Company

Revised 7/2002

Model	WLD1501, WLD1502, WLD1504, WLD1521, WLD1522, WLD1524
Sizes	3/4", 1"
Connections	NPT
Body Material	Cast Iron
PMO Max. Operating Pressure	200 PSIG
TMO Max. Operating Temperature	450°F
PMA Max. Allowable Pressure	250 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 250 PSIG



WLD1501/1502/1504



WLD1521/1522/1524  
Strainer

### TYPICAL APPLICATION

The **WLD1500 Series** Inverted bucket liquid drain traps are recommended for all services where the most important requirement is the removal of oil and liquids from compressed air systems.

### HOW IT WORKS

When there is condensate in the system, the inverted bucket inside the liquid drain trap sits on the bottom of the unit due to its weight. This allows condensate to enter the trap and to be discharged through the seat orifice located at the top. When the air enters the trap, the bucket floats to the surface and closes off the discharge valve containing the air in the system. Eventually air is bled off through a small hole in the top of the bucket and the bucket sinks repeating the cycle.

### FEATURES

- In-line repairable
- Hardened stainless steel valves and seats
- Only two moving parts
- Scrubber wire in air vent of bucket
- Discharge orifice at top, allowing for superior oil removal

### SAMPLE SPECIFICATION

Drain trap shall be on an inverted bucket trap design. Trap body and cover shall be of cast iron construction with all stainless steel internals; hardened seat and disc, plus a scrubber wire.

### INSTALLATION

Installation should include isolation valves for maintenance purposes and an in-line strainer. Trap must be installed in upright position to function properly. It may be necessary to prime the bucket trap by filling it with water prior to startup.

### MAINTENANCE

Close isolation valves prior to any maintenance. All working components can be replaced with the drain trap remaining in the line. Repair kits include lever & seat assembly, strainer screen and gaskets. For full maintenance details see Installation and Maintenance Manual.

### MATERIALS

Body & Cover	Cast Iron, ASTM A-278 Class 30
Nuts & Bolts	High-Tensile Steel
Gasket	Non-Asbestos Fiber
Bucket	Stainless Steel
Scrubber	Stainless Steel
Lever & Seat Assembly	Stainless Steel
Valve & Seat	Hardened Stainless Steel
Integral Strainer*	Stainless Steel

\*1521, 1522, 1524 models only.

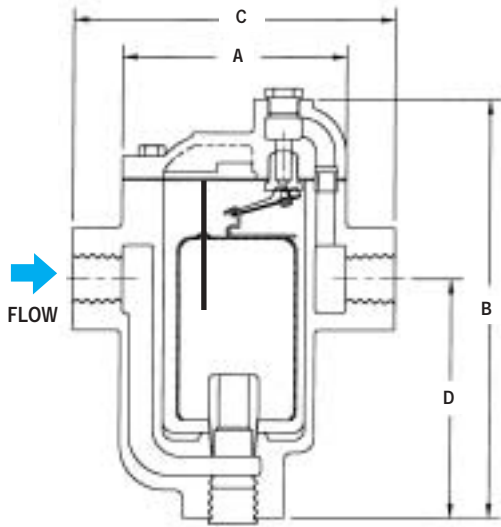
### HOW TO ORDER

Refer to the capacity chart to determine which model is required to satisfy the condensate load. Specify model and pipe size that meet the load requirement.

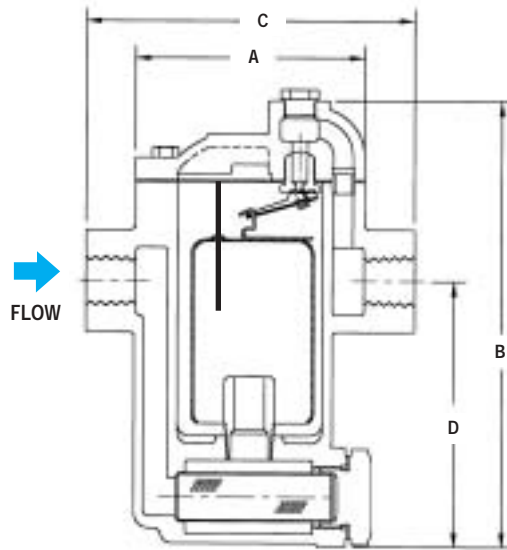
# LIQUID DRAINERS

## WLD1500 Series

Inverted Bucket Liquid Drain Trap



1501/1502/1504



1512, 1522, 1524  
with Strainer

### DIMENSIONS – inches / pounds

Model	Size	A	B	C	D	Weight
WLD1501	3/4"	3-13/16	5-7/16	5	2-13/16	5
WLD1502	3/4"	3-13/16	6-15/16	5	4-5/16	6
WLD1504	1"	7	11-13/16	7-13/16	7	27
WLD1521	3/4"	3-13/16	6-1/8	5	3-7/16	5.5
WLD1522	3/4"	3-13/16	7-1/8	5	4-7/16	6
WLD1524	1"	7	12-7/16	7-13/16	7-7/16	30

### COLD WATER CAPACITIES – (lbs/hr)

Model	PMO (PSIG)	Size	Differential Pressure (PSI)										
			2	5	10	25	50	80	100	125	150	180	200
WLD1501	150	3/4"	145	220	325	510	720	900	1010	1130	1215		
WLD1521													
WLD1502	200	3/4"	170	260	380	595	835	1045	1175	1315	1410	1550	1645
WLD1522													
WLD1504	200	1"	500	760	1105	1740	2460	3065	3450	3865	4140	4555	4835
WLD1524													