

# LIQUID DRAINERS

## WLDE/WLDES Series

### Float Type Liquid Drain Trap

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Model	WLDE	WLDES
Sizes	1 1/2", 2", 2 1/2"	2 1/2"
Connections	NPT	NPT, SW, Flanged
Body Material	Ductile Iron	Cast Steel
PMO Max. Operating Pressure	200 PSIG	300 PSIG
TMO Max. Operating Temperature	450°F	450°F
PMA Max. Allowable Pressure	300 PSIG up to 450°F	300 PSIG up to 750°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG	750°F @ 300 PSIG



### TYPICAL APPLICATIONS

The **WLDE/WLDES Series** high-capacity condensate drainers meet the flow requirements that are typically found in heavy industrial process applications for air and other gases.

### HOW IT WORKS

This liquid drainer has a float-operated valve that gives the trap a modulating flow characteristic. The amount of liquid flowing into the drainer is sensed by the float which positions the main valve to discharge the liquid at the same rate as it is received.

### FEATURES

- Ductile Iron or Cast Steel body and cover
- All stainless steel internals for long service life
- High capacity liquid removal
- Rugged construction design for heavy industrial use
- In-line repairable

### SAMPLE SPECIFICATION

The liquid drain trap shall be float operated with a ductile iron or cast steel body and all stainless steel internals. The unit shall be in-line repairable and equipped with a FNPT threaded connection for the use of a balance line.

### INSTALLATION

The installation should include isolation valves to facilitate maintenance and an in-line strainer. The trap must be level and upright for the float mechanism to operate. The 2" and 2 1/2" traps should not be supported by the piping alone. Trap must be sized and properly located in the system. Piping hook-up must include an equalizing line.

### MAINTENANCE

Close isolation valves prior to any maintenance. All working components can be replaced with the drain trap remaining in the pipeline. Repair kits include float, valve seat & disc, and gaskets. For full maintenance details see Installation and Maintenance Manual.

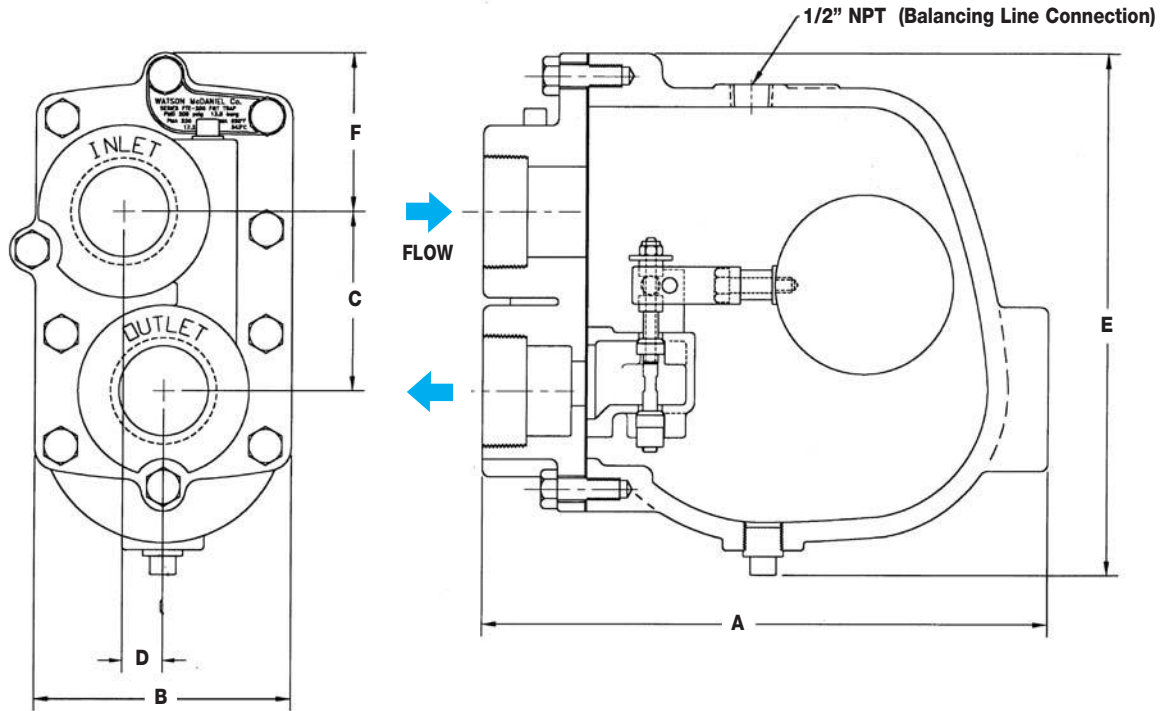
### MATERIALS

Body & Cover	<b>WLDE</b> - Ductile Iron <b>WLDES</b> - Cast Steel
Cover Screw	Carbon Steel, Gr 5
Cover Gasket	Garlock
Valve Discs	Stainless Steel, AISI 303
Main Valve Assembly Housing	Stainless Steel, AISI 304
Valve Assembly Gasket	Garlock
Ball Float	Stainless Steel, AISI 304
All other components	Stainless Steel

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DIMENSIONS & WEIGHTS — inches / pounds								
Model-PMO Size (PSIG)	A	B	C	D	E	F	Weight (lbs)	
WLDE-20 2"	12 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1/2	11 <sup>1</sup> / <sub>8</sub>	3 <sup>15</sup> / <sub>16</sub>	44	
WLDE-50 2"	16	8 <sup>7</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	91	
WLDE-50 2 <sup>1</sup> / <sub>2</sub> "	15 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	91	
WLDE-125 2 <sup>1</sup> / <sub>2</sub> "	15 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	92	
WLDE-200 1 <sup>1</sup> / <sub>2</sub> "	9 <sup>1</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>16</sub>	3	1 <sup>1</sup> / <sub>16</sub>	8 <sup>13</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>8</sub>	23	
WLDE-200 2"	12 <sup>1</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>2</sub>	1/2	11 <sup>1</sup> / <sub>8</sub>	3 <sup>15</sup> / <sub>16</sub>	50	
WLDE-200 2 <sup>1</sup> / <sub>2</sub> "	15 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	92	
WLDES-300 2 <sup>1</sup> / <sub>2</sub> "	15 <sup>1</sup> / <sub>2</sub>	8 <sup>7</sup> / <sub>16</sub>	7 <sup>5</sup> / <sub>16</sub>	1 <sup>7</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	92	

### HOW TO SIZE/ORDER

Determine differential pressure and capacity (lbs/hr) required. Locate differential pressure on capacity chart; move down column to capacity required. Make sure to select the correct model based on the required inlet pressure. Example:

Application: 80,000 lbs/hr at 100 PSIG working pressure and 5 PSI differential pressure  
 Size/Model: 2<sup>1</sup>/<sub>2</sub>" WLDE-125 @ 87,294 lbs/hr

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CAPACITIES — Cold Water (lbs/hr)																	
Model-PMO (PSIG)	Size	Orifice Size	Differential Pressure (PSI)														
			1/4	1/2	1	2	5	10	15	20	40	50	75	100	125	150	200
WLDE-20	2"	.937"	3929	5556	7858	11113	17571	24849	30433	35141							
WLDE-50	2"	2.125"	12248	18153	25312	37751	62218	90068	106565	123365	161302	176522					
WLDE-50	2 <sup>1</sup> / <sub>2</sub> "	2.125"	19520	27605	39039	55209	87294	123452	151197	174588	246904	276047					
WLDE-125	2 <sup>1</sup> / <sub>2</sub> "	2.125"	19520	27605	39039	55209	87294	123452	151197	174588	246904	276047	338088	390390	436469		
WLDE-200	1 <sup>1</sup> / <sub>2</sub> "	.375"	1051	1486	2102	2973	4700	6647	8141	9401	13295	14864	18205	21021	23502	25745	29728
WLDE-200	2"	.75"	3403	4813	6807	9626	15220	21525	26363	30441	43050	48131	58949	68068	76102	83366	96263
WLDE-200	2 <sup>1</sup> / <sub>2</sub> "	1.5"	11100	15713	22200	31427	49690	70273	86066	99381	140546	157135	192450	222200	248452	272165	314269
WLDES-300	2 <sup>1</sup> / <sub>2</sub> "	1.5"	11100	15713	22200	31427	49690	70273	86066	99381	140546	157135	192450	222200	248452	272165	314269

Note: Capacity for 250 PSI Differential Pressure = 365,232 lbs/hr; for 300 PSI Differential Pressure = 427,024 lbs/hr (for WLDES-300 only).