

LIQUID DRAINERS

WLDE Series

Float Type Liquid Drain Trap

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Model	WLDE
Sizes	1 1/2", 2", 2 1/2"
Connections	NPT
Body Material	Ductile Iron
PMO Max. Operating Pressure	200 PSIG
TMO Max. Operating Temperature	650°F
PMA Max. Allowable Pressure	300 PSIG up to 450°F
TMA Max. Allowable Temperature	450°F @ 300 PSIG



TYPICAL APPLICATION

The WLDE Series high-capacity 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 body and cover
- In-line repairable
- All stainless steel internals for long service life
- High capacity liquid removal
- Rugged construction design for heavy industrial use

SAMPLE SPECIFICATION

The liquid drain trap shall be float operated with a ductile iron 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 line. Repair kits include float, valve seat and disc and gaskets. For full maintenance details see Installation and Maintenance Manual.

MATERIALS

Body & Cover	Ductile Iron
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

HOW TO ORDER

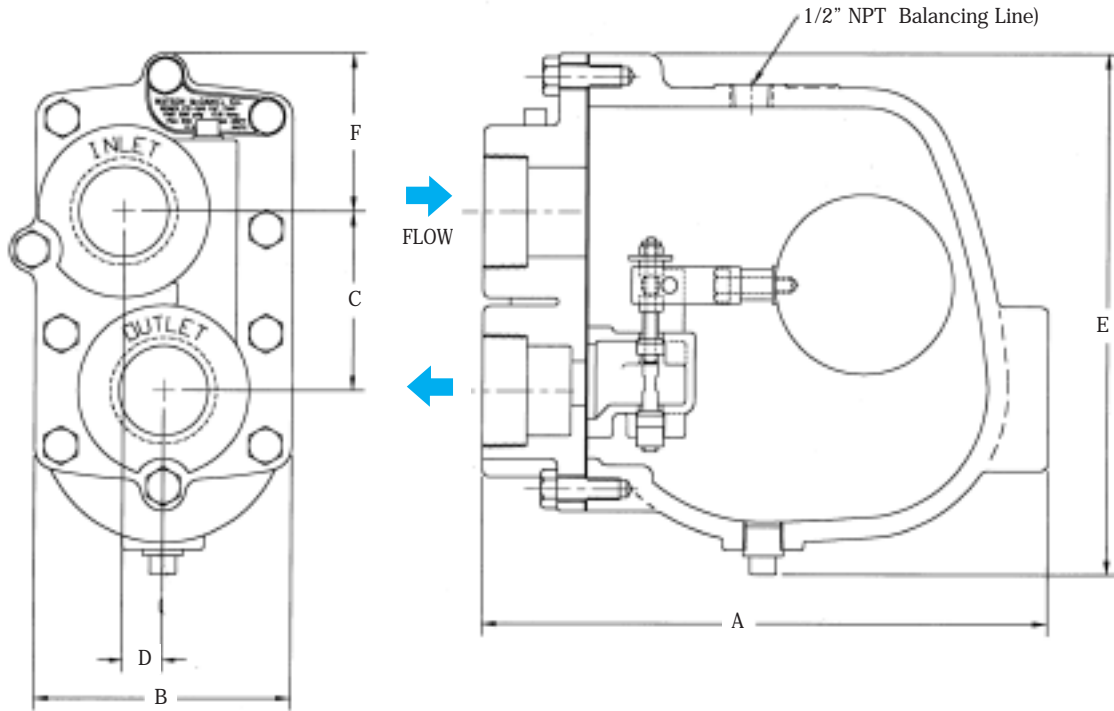
Refer to the capacity chart to determine which model is required to satisfy the condensate load.

LIQUID DRAINERS

WLDE Series

Float Type Liquid Drain Trap

Revised 9/2004



DIMENSIONS – inches / pounds								
Model	Size	A	B	C	D	E	F	Weight
WLDE-20	2"	12 ¹ / ₈	5 ¹¹ / ₁₆	4 ¹ / ₂	1/2	11 ¹ / ₈	3 ¹⁵ / ₁₆	44
WLDE-50	2"	16	8 ⁷ / ₁₆	7 ⁵ / ₁₆	1 ⁷ / ₁₆	15 ¹ / ₈	3 ¹ / ₈	91
WLDE-50	2 ¹ / ₂ "	15 ¹ / ₂	8 ⁷ / ₁₆	7 ⁵ / ₁₆	1 ⁷ / ₁₆	15 ¹ / ₈	3 ¹ / ₈	91
WLDE-125	2 ¹ / ₂ "	15 ¹ / ₂	8 ⁷ / ₁₆	7 ⁵ / ₁₆	1 ⁷ / ₁₆	15 ¹ / ₈	3 ¹ / ₈	92
WLDE-200	1 ¹ / ₂ "	9 ¹ / ₈	4 ⁵ / ₁₆	3	11 ¹ / ₁₆	8 ¹³ / ₁₆	2 ¹ / ₈	23
WLDE-200	2"	12 ¹ / ₈	5 ¹¹ / ₁₆	4 ¹ / ₂	1/2	11 ¹ / ₈	3 ¹⁵ / ₁₆	50
WLDE-200	2 ¹ / ₂ "	15 ¹ / ₂	8-7/16	7 ⁵ / ₁₆	1 ⁷ / ₁₆	15 ¹ / ₈	3 ¹ / ₈	92

COLD WATER CAPACITIES – (lbs/hr)																	
Model	Size	Orifice	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 ¹ / ₂ "	2.125"	19520	27605	39039	55209	87294	123452	151197	174588	246904	276047					
WLDE-125	2 ¹ / ₂ "	2.125"	19520	27605	39039	55209	87294	123452	151197	174588	246904	276047	338088	390390	436469		
WLDE-200	1 ¹ / ₂ "	.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 ¹ / ₂ "	1.5"	11111	15713	22222	31427	49690	70273	86066	99381	140546	157135	192450	222222	248452	272165	314269

LIQUID DRAINERS

LIQUID DRAINERS

WLD600/601 Series

Float Type Liquid Drain Trap

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Model	WLD600 / WLD601†
Sizes	3/4", 1", 1 1/2", 2", 3", 4"
Connections	NPT, SW, Flanged
Body Material WLD600	Carbon Steel †
Body Material WLD601	316 SS
PMO Max. Operating Pressure	450 PSIG
TMO Max. Operating Temperature	750°F
PMA Max. Allowable Pressure	*990 PSIG @ 100°F
TMA Max. Allowable Temperature	*750°F @ 670 PSIG



† WLD601 Body & Cover Material is 316 SS

* 3/4" - 2" only.

Note: For dimensions and capacities of 3" & 4" liquid drains traps refer to model FT600 in the Steam Trap section.

TYPICAL APPLICATION

The WLD600/601 Series is used in applications where immediate and continuous discharge of large amounts of liquid is required. Typically used in heavy industrial process applications for draining condensate from air or 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

- All stainless steel internals for long life service
- Body & cover available in Carbon Steel or 316 SS
- Rugged construction designed for heavy industrial applications
- In-line repairable

SAMPLE SPECIFICATION

The liquid drain trap shall be float operated with a 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" 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 line. Repair kits include float, valve seat & disc and gaskets. For full maintenance details see Installation and Maintenance Manual.

OPTIONS

Body and cover for Model WLD601 is 316 SS.

MATERIALS

Body & Cover WLD600	Cast Steel, ASTM A-216 WCB
Body & Cover WLD601	Cast 316 SS
Cover Studs	Steel, SA 193, Gr B7
Cover Nuts	Steel, SA 194, Gr 2H
Cover Gasket	Stainless Steel Reinforced Grafoil
Valve Assembly	Stainless Steel, AISI 431
Gasket, Valve Assembly	Stainless Steel Reinforced Grafoil
Pivot Assembly	Stainless Steel, 17-4 PH
Mounting Screws	Stainless Steel Hex Head, 18-8
Float	Stainless Steel, ASTM 240 TY 304

HOW TO ORDER

Refer to the capacity chart to determine which model is required.

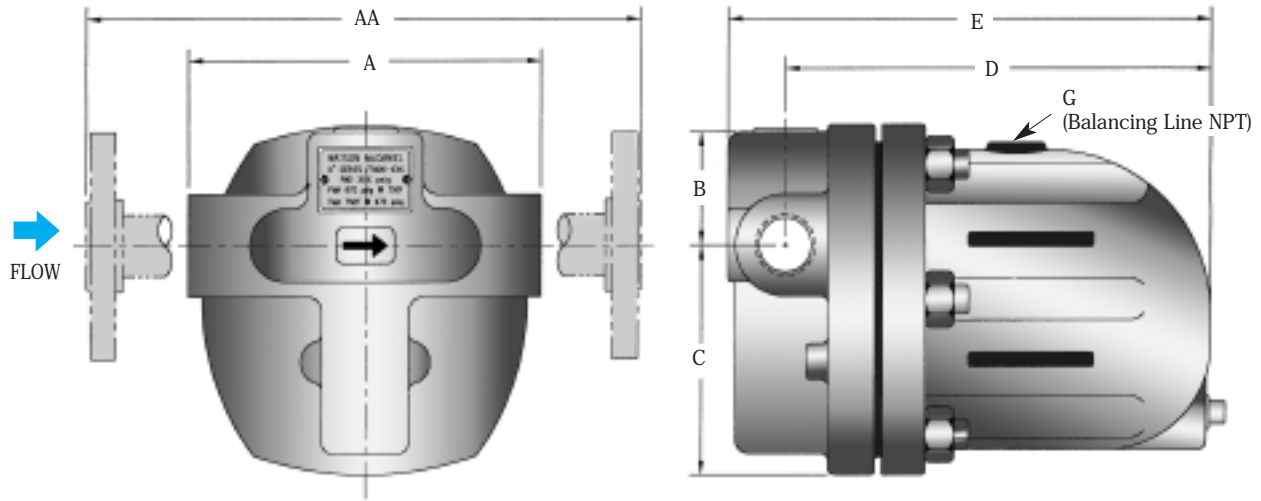
Example Model Code: **WD600-065-14**
specifies 65 PMO, 1" NPT
Carbon Steel Body & Cover

LIQUID DRAINERS

WLD600/601 Series

Float Type Liquid Drain Trap

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DIMENSIONS – inches / pounds

Size	A	AA	B	C	D	E	F	G*	Weight (lbs)	
									NPT/SW	FLG
3/4"	6 ¹ / ₈	10 ¹ / ₈	2 ¹ / ₈	3 ⁷ / ₁₆	7 ⁷ / ₁₆	8 ⁷ / ₁₆	5 ¹³ / ₁₆	3/8	25	31
1"	6 ¹ / ₂	10 ⁷ / ₁₆	2 ¹ / ₂	5 ¹ / ₂	8 ⁷ / ₁₆	9 ¹ / ₂	6 ⁵ / ₁₆	3/8	31	36
1 ¹ / ₂ "	9 ¹³ / ₁₆	14	3 ⁷ / ₁₆	9	10 ⁷ / ₁₆	11 ¹⁵ / ₁₆	7 ¹³ / ₁₆	1/2	82	91
2"	11 ¹³ / ₁₆	16	3 ¹ / ₈	7 ⁷ / ₁₆	11 ¹ / ₈	13 ⁵ / ₁₆	6 ¹³ / ₁₆	1/2	93	107

* Balancing Port available within 1/2" flanged connection. Specify on order.

COLD WATER CAPACITIES – (lbs/hr)

PMO (PSI)	Size (in.)	Orifice (in.)	Differential Pressure (PSI)																	
			2	5	10	20	30	40	50	65	70	80	100	145	200	250	300	350	450	
65	3/4"	.156	340	520	730	1010	1220	1440	1560	1770										
65	1"	.276	1390	2140	2970	4130	5000	5730	6370	7210										
65	1 ¹ / ₂ "	.689*	4160	6430	8920	12380	15000	17190	19110	21630										
65	2"	1.122*	14730	22720	31540	43790	53060	60790	67570	76500										
145	3/4"	.126	210	320	450	620	760	870	960	1090	1130	1200	1340	1590						
145	1"	.205*	690	1070	1490	2060	2500	2870	3190	3610	3740	3980	4420	5270						
145	1 ¹ / ₂ "	.591*	2360	3630	5050	7010	8490	9730	10810	12240	12670	13500	15000	17890						
145	2"	.807*	5840	9010	12510	17370	21040	24110	26800	30340	31420	33470	37200	44360						
200	3/4"	.106	170	260	360	500	600	690	770	870	900	960	1060	1270	1480					
200	1"	.185	450	690	960	1330	1620	1850	2060	2330	2410	2570	2860	3410	3970					
200	1 ¹ / ₂ "	.531*	1650	2550	3540	4910	5950	6820	7580	8580	8890	9470	10520	12540	14610					
200	2"	.657*	2890	4460	6190	8590	10410	11930	13250	15010	15540	16560	18400	21940	25540					
300	3/4"	.079	80	130	180	250	300	340	380	430	450	480	530	630	730	820	890			
300	1"	.156	340	520	730	1010	1220	1400	1560	1770	1830	1950	2160	2580	3010	3340	3640			
300	1 ¹ / ₂ "	.531*	1650	2550	3540	4910	5950	6820	7580	8580	8890	9470	10520	12540	14610	16230	17700			
300	2"	.657*	2890	4460	6190	8590	10410	11930	13250	15010	15540	16560	18400	21940	25540	28930	30950			
450	3/4"	.063	50	70	100	140	160	190	210	240	250	260	290	350	400	450	490	530	590	
450	1"	.126	210	320	450	620	760	870	960	1090	1130	1200	1340	1590	1860	2060	2250	2420	2720	
450	1 ¹ / ₂ "	.531*	1650	2550	3540	4910	5950	6820	7580	8580	8890	9470	10520	12540	14610	16230	17700	19040	21440	
450	2"	.657*	2890	4460	6190	8590	10410	11930	13250	15010	15540	16560	18400	21940	25540	28390	30950	33290	37490	

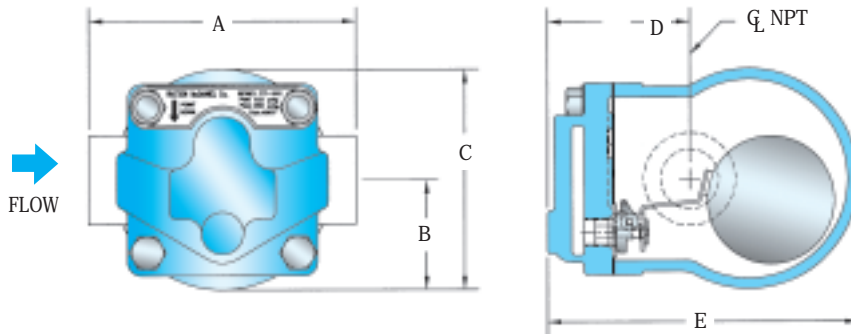
LIQUID DRAINERS

WLD1400 Series

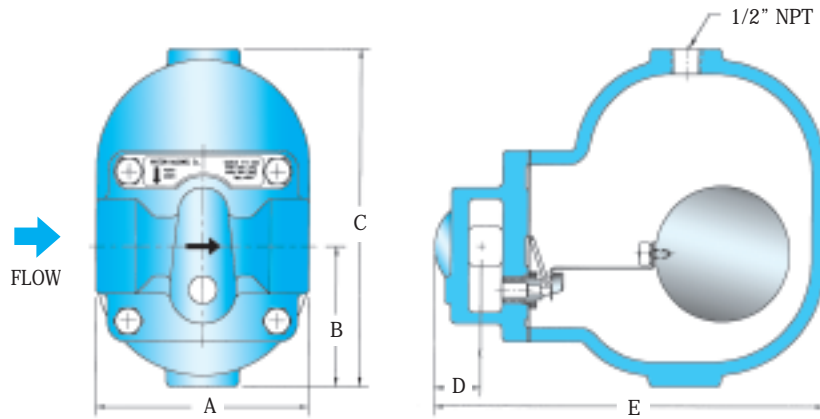
Float Type Liquid Drain Trap

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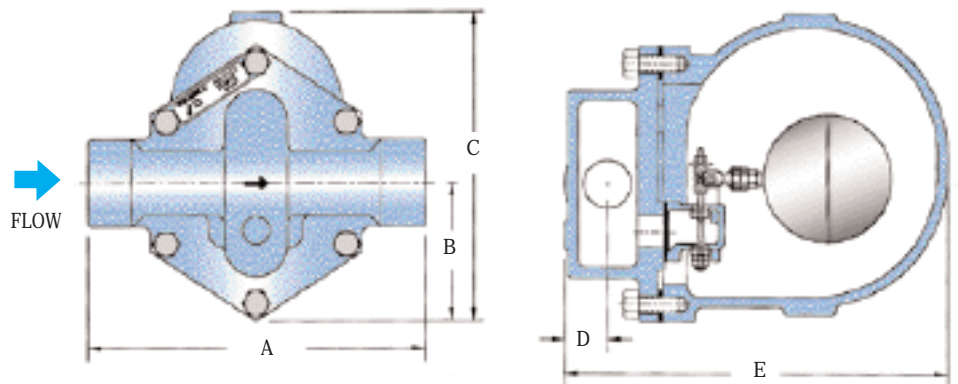
WLD1400
1/2" & 3/4"



WLD1400
1"



WLD1400
1 1/2" & 2"



DIMENSIONS & WEIGHTS – inches/pounds

Size	A	B	C	D	E	Weight
1/2", 3/4"	4.8	1.9	3.9	2.5	5.5	6
1"	4.8	3.1	7.5	1.1	8.8	16
1 1/2"	10.6	4.3	9.6	1.4	12	40
2"	11.9	4.3	9.6	1.4	12	40

HOW TO ORDER

Specify model, pipe size and maximum working pressure. Choose a pressure that is greater than the maximum the trap will see in service. See capacity chart.

MATERIALS

Body & Cover	Ductile Iron
Gasket	Garlock 3400
Cover Screws	Stainless Steel, Gr 5
Float	Stainless Steel, AISI 304
Internals	Stainless Steel, 300 Series
Valve Seat	Stainless Steel, 17-4 PH
Valve Disc	Stainless Steel, AISI 420F

LIQUID DRAINERS

WLD1500 Series

Inverted Bucket Liquid Drain Trap

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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

Note:

Trap should be ordered with an internal check valve or a separate check valve needs to be placed in-line during installation on the discharge side of the trap.



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 through the priming port 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

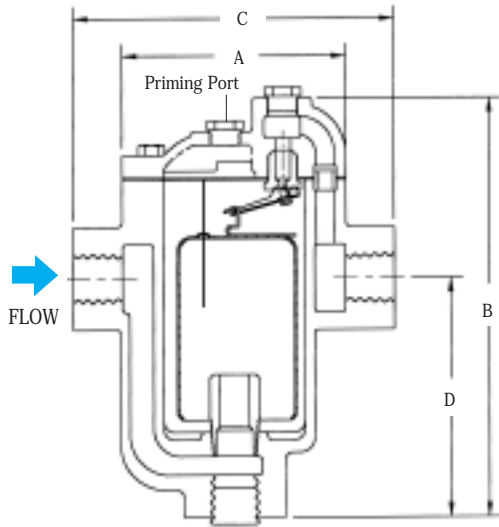
Refer to the capacity chart to determine which model is required to satisfy the condensate load. Specify model and pipe size that meet the load requirement.

LIQUID DRAINERS

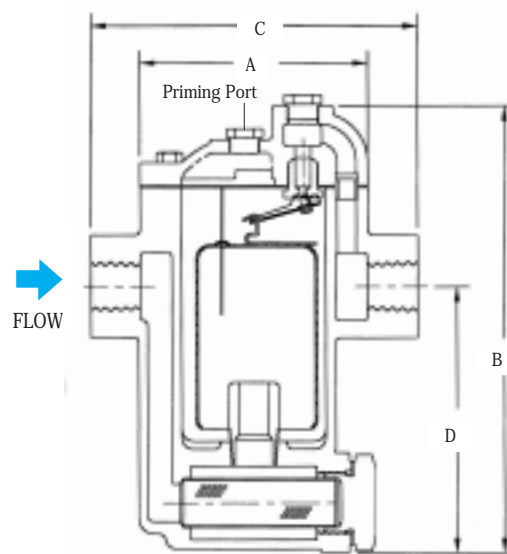
WLD1500 Series

Inverted Bucket Liquid Drain Trap

Revised 9/2004



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													

LIQUID DRAINERS

WLD1703S

Thermodynamic Drain Trap

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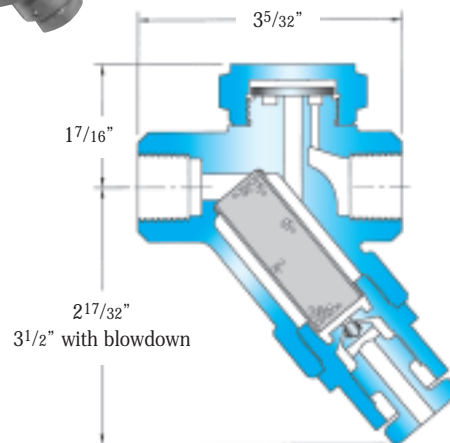
Revised 9/2004

Model	WLD1703S
Sizes	1/2", 3/4"
Connections	NPT
Body Material	Stainless Steel
Options	Blowdown Valve
PMO Max. Operating Pressure	250 PSIG
TMO Max. Operating Temperature	750°F
PMA Max. Allowable Pressure	915 PSIG up to 250°F
TMA Max. Allowable Temperature	610°F @ 750 PSIG



1703SB
with Strainer &
Blowdown

1703S
with Strainer
1703SB
with Strainer
& Blowdown



TYPICAL APPLICATION

The WLD1703S is used on air and gas applications as drip traps on system mains and other piping runs. These drain traps are ideal for outdoor applications where units are subject to freezing.

HOW IT WORKS

The thermodynamic liquid drain trap has a cyclic on/off operation with a disc that is pushed open when condensate is present and pulled closed when the gas tries to escape.

FEATURES

- Rugged, stainless steel body and hardened seat
- Handles a wide range of pressures up to 250 PSIG
- Works in any position (horizontal preferable)
- Integral strainer with blowdown option
- Three-holed balanced discharge
- Freeze proof in vertical orientation flow down position

SAMPLE SPECIFICATION

Drain Trap shall be thermodynamic disc type with an all stainless steel construction. Body shall have a built-in strainer with optional blowdown valve. Integral seat design and disc to be hardened for long service life. Unit shall be capable of installation in any orientation and self-draining when mounted vertically with flow down.

INSTALLATION

Drain Trap can be installed in any position, however, horizontal is preferred. Installation should include isolation valves for maintenance purposes.

MAINTENANCE

Dirt is the most common cause of premature failure. The strainer should be periodically cleaned. For full maintenance details see Installation and Maintenance Manual.

OPTIONS

Blowdown valve for easy maintenance.

MATERIALS

Body	Stainless Steel, AISI 420F
Disc	Stainless Steel, AISI 420
Cap	Stainless Steel, AISI 416
Strainer Screen	Stainless Steel, AISI 304
Blowdown Valve*	Stainless Steel, AISI 303

*WLD1703SB model only.

COLD WATER CAPACITIES – (lbs/hr)

Model	Size	Differential Pressure (PSI)											
		2	5	10	25	50	80	100	125	150	180	200	250
WLD1703S	1/2", 3/4"	90	130	190	300	425	530	600	670	715	790	835	955
WLD1703SB	1/2", 3/4"	90	130	190	300	425	530	600	670	715	790	835	955

Note: Maximum back pressure not to exceed 80% of inlet pressure.
To determine gallons per minute of flow divide values in chart by 500.
Example: 600 lbs/hr = 600 ÷ 500 = 1.2 gpm

LIQUID DRAINERS

WLD9000

Blast Discharge Liquid Drain Trap

Revised 9/2004

Model	WLD9000
Sizes	3/4"
Connections	NPT
Body Material	High Tensile Aluminum
PMO Max. Operating Pressure	200 PSIG
TMO Max. Operating Temperature	200°F
PMA Max. Allowable Pressure	200 PSIG @ 250° F
TMA Max. Allowable Temperature	200° F @ 200 PSIG



TYPICAL APPLICATION

The WLD9000 is used to drain liquids from systems where dirt and oil is a problem. Typically used on receivers, separators, intercoolers, aftercoolers, reservoirs, risers, main drips and refrigerated dryers.

HOW IT WORKS

This liquid drainer has a float actuated pneumatic pilot valve that gives the trap a cyclic on/off flow characteristic. When the liquid level pushes the float arm to the top of its travel, a magnetic shuttle switch is tripped to allow system air through the pilot port, which actuates the discharge valve to blast the liquid out under the system pressure. With the float arm now at the bottom of its travel the magnetic shuttle switch reverses position to allow the discharge valve to close and begin a new filling cycle.

FEATURES

- Large orifice to eliminate clogging
- Blast discharge to eliminate sludge deposits
- Top and bottom inlet available
- Non-electric
- Stainless steel internals for long life
- Sight gauge for visual check of operation

SAMPLE SPECIFICATION

The float type liquid drain trap shall be pilot actuated and pneumatically operated with a cyclic blast discharge flow characteristic. The trap body shall be high tensile aluminum with stainless steel internals and a magnetic shuttle switch.

INSTALLATION

Select the lowest point of the system to provide the best gravity flow. The installation should include isolation valves at inlet and balance lines to facilitate maintenance. The trap must be level and upright for the float mechanism to operate.

MAINTENANCE

It is recommended to flush out accumulated sludge and dirt by pushing the manual drain at least once a month. Once a year, a thorough cleaning of the operating mechanism is recommended.

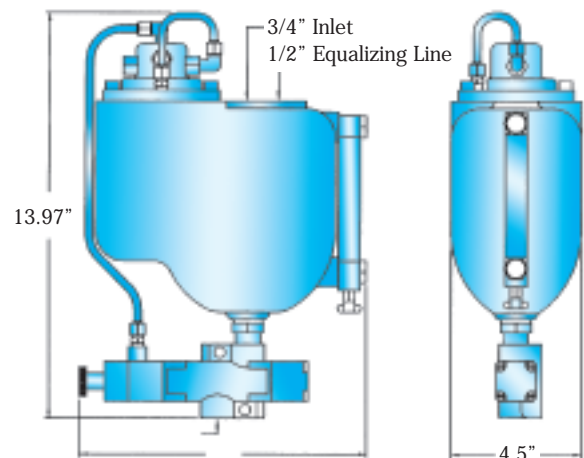
MATERIALS

Housing	High Tensile Aluminum
Internal	Stainless Steel
Tubing	Copper
External Fittings	Stainless Steel & Brass
Seals	Viton, Nitrile & Teflon

CAPACITIES

Maximum capacity of 500 gallons per hour.

DIMENSIONS



LIQUID DRAINERS

WLD1800/1800R

Guided Float Type Liquid Drain Trap

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Model	WLD1800, WLD1800R
Sizes	1/2", 3/4"
Connections	NPT
Body Material	Stainless Steel
PMO Max. Operating Pressure	400 PSIG
PMA	400 PSIG @ 500° F
TMA	500° F @ 400 PSIG



WLD1800
(Non-Repairable)



WLD1800R
(Repairable)

TYPICAL APPLICATION

The WLD1800 is used on industrial air and gas applications for drainage of liquid from systems.

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

- Stainless steel body
- All stainless steel internals for longer service life
- Guided float ensures proper valve seating on every cycle
- Repairable unit available (WLD1800R model)

SAMPLE SPECIFICATION

The liquid drain trap shall have a guided-float operation with a tamper proof seal welded stainless steel body and all stainless steel internals. The unit shall be available with an in-line repairable version. All units to be equipped with FNPT threaded end connections.

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. Trap must be sized and properly located in the system.

MAINTENANCE

Close isolation valves prior to any maintenance. The WLD1800 is a disposable unit, but with the WLD1800R all working components can be replaced. Repair kits include float, lever & seat assembly and gaskets. For full maintenance details see Installation and Maintenance Manual.

MATERIALS

Body	Stainless Steel, AISI 304
Inlet & Outlet Fittings	Stainless Steel, AISI 304
Float Assembly	Stainless Steel, AISI 304
Valve & Lever Assembly	Stainless Steel, AISI 303
Seat	Hardened Stainless Steel
Gasket & Washer (seat)	Garlock
Bolt, Hex, HD	Stainless Steel, AISI 316
Nut, Jam	Stainless Steel, 18-8

HOW TO ORDER

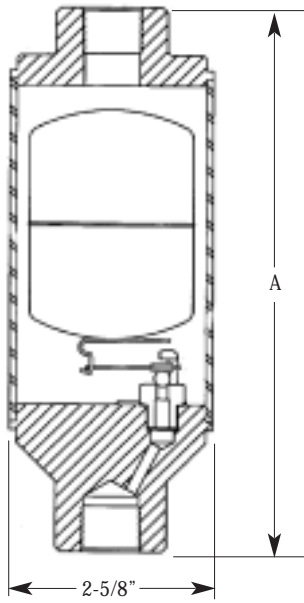
Refer to the capacity chart to determine which model is required to satisfy the condensate load. Specify model, orifice and pipe size that meets the load requirement.

LIQUID DRAINERS

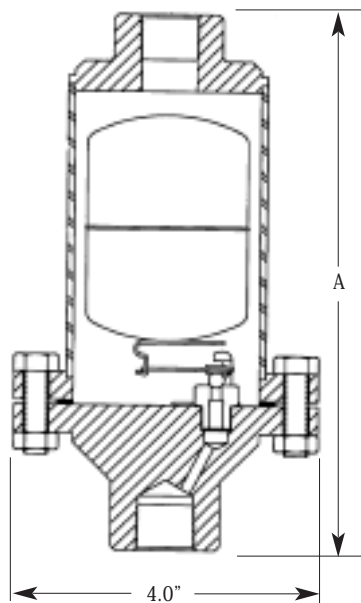
WLD1800/1800R

Guided Float Type Liquid Drain Trap

Revised 9/2004



WLD1800
(Non-Repairable)



WLD1800R
(Repairable)

DIMENSIONS – inches / pounds			
Model	Size (Inlet x Outlet)	A	Weight (lbs)
WLD1801	3/4" x 1/2"	7	4
WLD1801R	3/4" x 1/2"	7 ^{3/8}	4
WLD1802	3/4" x 3/4"	7	4
WLD1802R	3/4" x 3/4"	7 ^{3/8}	4
WLD1803	1/2" x 1/2"	7	4
WLD1803R	1/2" x 1/2"	7 ^{3/8}	4

COLD WATER CAPACITIES – (lbs/hr)																		
Model	Orifice	Differential Pressure (PSI)																
		1	2	5	10	15	20	30	50	100	150	175	200	250	275	300	350	400
WLD1800 SERIES	.078	60	80	120	130	180	260	315	400	570	700	750	800	900	940	1050	1050	1120
	#38	90	120	175	195	275	385	470	610	860	1050	1125	1200	1350	1425			
	.125	160	230	325	365	510	730	790	1150	1630	2000	2150						

CAPACITY CORRECTION FACTORS																	
Specific Gravity	1	.98	.96	.94	.92	.90	.88	.86	.84	.82	.80	.75	.70	.65	.60	.55	.50
Correction Factor	1	.99	.98	.97	.959	.949	.938	.927	.917	.906	.894	.866	.837	.806	.775	.742	.707

Note: To obtain capacity with a liquid other than water multiply water capacity by correction factor.

LIQUID DRAINERS

WLD1900 Series

Float Type Liquid Drain Trap

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Revised 7/2002

Model	WLD1900
Sizes	3/4", 1", 1-1/4", 1-1/2", 2"
Connections	NPT
Body Material	Cast Iron
PMO Max. Operating Pressure	250 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



**WLD1900
3/4" & 1"**

TYPICAL APPLICATION

The **WLD1900** Series is used in applications where immediate and continuous discharge of liquid is required. Typically used in process applications for draining condensate from air or 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

- In-line repairable
- All stainless steel internals
- Hardened valve seat for longer service life
- Cast Iron body

SAMPLE SPECIFICATION

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

INSTALLATION

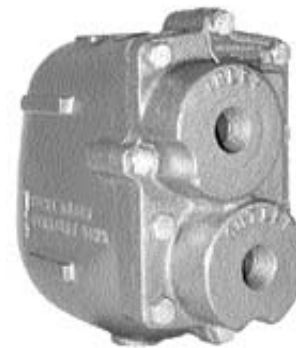
The installation should include isolation valves to facilitate maintenance and an in-line strainer. The trap must be level and upright for the float mechanism to operate. Trap must be sized and properly located in the system.

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 float, valve seat & disc and gaskets. For full maintenance details see Installation and Maintenance Manual.



**WLD1900
2"**



**WLD1900
1-1/4" & 1-1/2"**

MATERIALS

Body	Cast Iron
Cover	Cast Iron
Gasket	Garlock 3400
Cover Screws	Stainless Steel, Gr 5
Float	Stainless Steel, AISI 304
Internals	Stainless Steel, 300 Series
Valve Seat	Stainless Steel, 17-4 PH
Valve Disc	Stainless Steel, AISI 420F

HOW TO ORDER

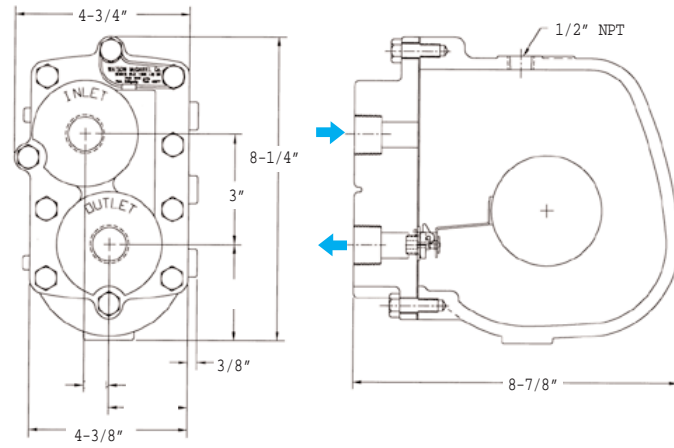
Specify model, pipe size and maximum working pressure. Choose a pressure that is greater than the maximum the trap will see in service. See capacity chart.

LIQUID DRAINERS

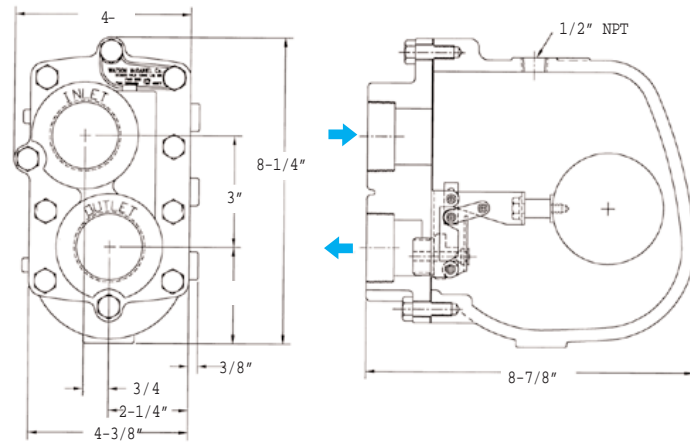
WLD1900 Series

Float Type Liquid Drain Trap

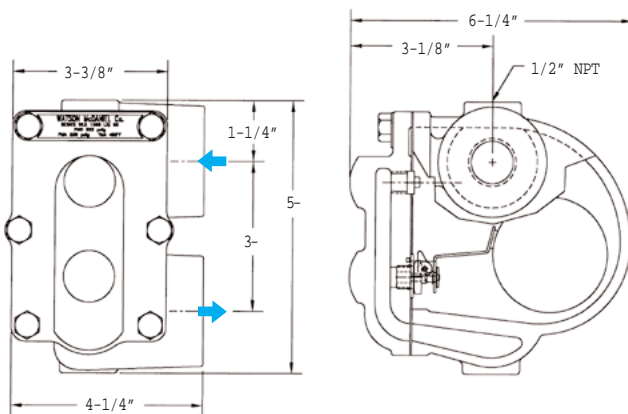
DIMENSIONS – inches/pounds				
Drawing	Model	Size	PMO PSI	Weight (lbs)
A	WLD1913-015	3/4"	15	9
A	WLD1914-015	1"	15	9
A	WLD1915-015	1-1/4"	15	9
C	WLD1916-015	1-1/2"	15	21
D	WLD1917-015	2"	15	53
A	WLD1913-030	3/4"	30	9
A	WLD1914-030	1"	30	9
A	WLD1915-030	1-1/4"	30	9
C	WLD1916-030	1-1/2"	30	21
D	WLD1917-030	2"	30	53
A	WLD1913-090	3/4"	90	9
A	WLD1914-090	1"	90	9
C	WLD1915-090	1-1/4"	90	21
C	WLD1916-090	1-1/2"	90	21
D	WLD1917-090	2"	90	53
A	WLD1913-150	3/4"	150	9
A	WLD1914-150	1"	150	9
C	WLD1915-150	1-1/4"	150	21
C	WLD1916-150	1-1/2"	150	21
D	WLD1917-150	2"	150	53
B	WLD1913-200	3/4"	200	20
B	WLD1914-200	1"	200	20
C	WLD1915-200	1-1/4"	200	21
C	WLD1916-200	1-1/2"	200	21
D	WLD1917-200	2"	200	53
B	WLD1913-250	3/4"	250	20
B	WLD1914-250	1"	250	20
C	WLD1915-250	1-1/4"	250	21
C	WLD1916-250	1-1/2"	250	21
D	WLD1917-250	2"	250	53



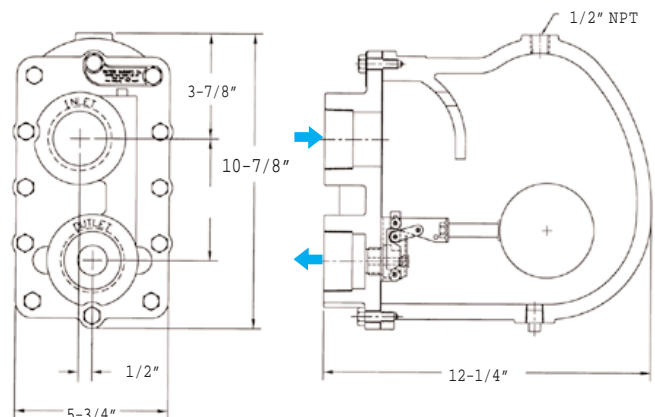
DRAWING - B



DRAWING - C



DRAWING - A



DRAWING - D

LIQUID DRAINERS

WLD 1900 Series

Float Type Liquid Drain Trap

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GOLD WATER CAPACITIES – (lbs/hr)

Model	Size	PMO PSI	Orifice Size	Differential Pressure (PSI)																
				1	2	5	10	15	20	30	40	50	75	100	125	150	175	200	225	250
WLD1913-015	3/4"	15	.250"	910	1260	1940	2690	3260												
WLD1914-015	1"	15	.250"	910	1260	1940	2690	3260												
WLD1915-015	1-1/4"	15	.312"	1130	1570	2420	3360	4070												
WLD1916-015	1-1/2"	15	.500"	2400	3330	5140	7140	8650												
WLD1917-015	2"	15	.625"	3000	4170	6430	8920	10810												
WLD1913-030	3/4"	30	.228"	830	1150	1770	2450	2970	3410	4130										
WLD1914-030	1"	30	.228"	830	1150	1770	2450	2970	3410	4130										
WLD1915-030	1-1/4"	30	.228"	830	1150	1770	2450	2970	3410	4130										
WLD1916-030	1-1/2"	30	.390"	2200	3060	4710	6540	7930	9080	11000										
WLD1917-030	2"	30	.500"	2400	3330	5140	7140	8650	9910	12000										
WLD1913-090	3/4"	90	.166"	260	360	550	770	930	1060	1290	1480	1640	1990							
WLD1914-090	1"	90	.166"	260	360	550	770	930	1060	1290	1480	1640	1990							
WLD1915-090	1-1/4"	90	.312"	1130	1570	2420	3360	4070	4660	5650	6470	7190	8710							
WLD1916-090	1-1/2"	90	.312"	1130	1570	2420	3360	4070	4660	5650	6470	7190	8710							
WLD1917-090	2"	90	.422"	1350	1870	2890	4010	4860	5570	6740	7730	8590	10400							
WLD1913-150	3/4"	150	.128"	150	210	330	450	550	630	760	870	970	1170	1340	1490	1590				
WLD1914-150	1"	150	.128"	150	210	330	450	550	630	760	870	970	1170	1340	1490	1590				
WLD1915-150	1-1/4"	150	.250"	910	1260	1940	2690	3260	3740	4530	5190	5760	6980	8000	8890	9800				
WLD1916-150	1-1/2"	150	.250"	910	1260	1940	2690	3260	3740	4530	5190	5760	6980	8000	8890	9800				
WLD1917-150	2"	150	.332"	1200	1670	2580	3580	4330	4960	6010	6890	7650	9270	10620	11810	12500				
WLD1913-200	3/4"	200	.166"	260	360	550	770	930	1060	1290	1480	1640	1990	2280	2530	2760	2970	3150		
WLD1914-200	1"	200	.166"	260	360	550	770	930	1060	1290	1480	1640	1990	2280	2530	2760	2970	3150		
WLD1915-200	1-1.4"	200	.250"	910	1260	1940	2690	3260	3740	4530	5190	5760	6980	8000	8890	9690	10420	11100		
WLD1916-200	1-1/2"	200	.250"	910	1260	1940	2690	3260	3740	4530	5190	5760	6980	8000	8890	9690	10420	11100		
WLD1917-200	2"	200	.281"	1960	2720	4200	5830	7060	8090	9800	11230	12480	15120	17320	19250	20980	22570	23800		
WLD1913-250	3/4"	250	.128"	150	210	330	450	550	630	760	870	970	1170	1340	1490	1630	1750	1860	1970	2070
WLD1914-250	1"	250	.128"	150	210	330	450	550	630	760	870	970	1170	1340	1490	1630	1750	1860	1970	2070
WLD1915-250	1-1/4"	250	.203"	600	830	1280	1770	2150	2460	2980	3420	3800	4600	5270	5860	6390	6870	7320	7740	8140
WLD1916-250	1-1/2"	250	.203"	600	830	1280	1770	2150	2460	2980	3420	3800	4600	5270	5860	6390	6870	7320	7740	8140
WLD1917-250	2"	250	.250"	910	1260	1940	2690	3260	3740	4530	5190	5760	6980	8000	8890	9690	10420	11100	11740	12340