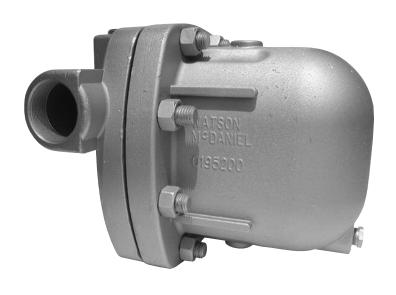
Liquid Drainers









Liquid Drainers

| Model/Series | Туре | Body Material | PMO (PSIG) | Sizes | Connection | Page No. | | |
|-------------------|--|-------------------------------------|---------------|--|---------------------|----------|--|--|
| WLDE WLDES | Float Float | Ductile Iron Cast Steel | 200 300 | 1 ¹ /2", 2", 2 ¹ /2" 2 ¹ /2" | NPT NPT, SW, FLG | 208-209 | | |
| WLD600 WLD601 | Float Float | Carbon Steel 316 Stainless Steel | 450 | 3/4" – 4" | NPT, SW, FLG | 210-211 | | |
| WLD1400 | Float | Ductile Iron | 300 | 1/2" – 2" | NPT | 212-213 | | |
| WLD1500 | Inverted Bucket | Cast Iron | 200 | 3/4", 1" | NPT | 214-215 | | |
| WLD1703S | Thermodynamic | Stainless Steel | 250 | 1/2″ | NPT | 216 | | |
| WLD1800/1800R | Guided Float | Stainless Steel | 400 | 1/2", 3/4" | NPT | 217-218 | | |
| WLD1900 | Float | Cast Iron | 250 | 3/4" – 2" | NPT | 219-221 | | |
| Installation Guid | Installation Guidelines for Liquid Drain Traps | | | | | | | |









WLDE/WLDES Series

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Float Type Liquid Drain Trap

| 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 $2^{\prime\prime}$ and $2^{1}/2^{\prime\prime}$ 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

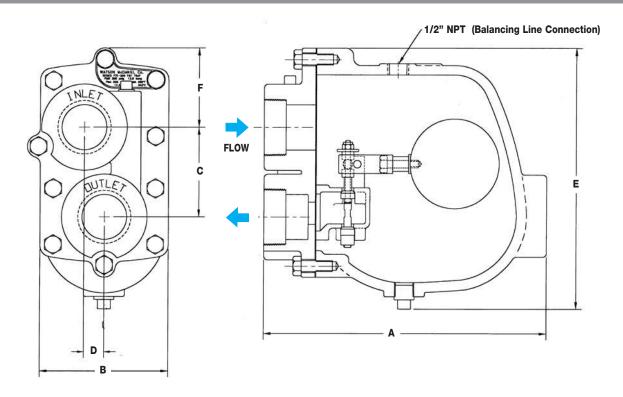
Close isolation valves prior to any maintenance. All working components can be replaced with the drain trap remaining in the pipeline. Repair kits include float, valve seat & disc, and gaskets. For full maintenance details see Installation and Maintenance Manual.

| MATERIALS | | | | | | |
|-----------------------------|---|--|--|--|--|--|
| Body & Cover | WLDE - Ductile Iron WLDES - 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 | | | | | |



WLDE/WLDES Series

Float Type Liquid Drain Trap



| DIMEN | DIMENSIONS & WEIGHTS — inches/pounds | | | | | | | |
|--------------------|--------------------------------------|--------------------|---------------------------------------|--------------------|-------|--------------------|---------------------|-----------------|
| Model-PMO (PSIG | | A | В | С | D | E | F | Weight (lbs) |
| WLDE-20 | 2″ | 12 ¹ /8 | 5 ¹¹ /16 | 41/2 | 1/2 | 11 ¹ /8 | 3 ¹⁵ /16 | 44 |
| WLDE-50 | 2″ | 16 | 8 7/16 | 7 ⁵ /16 | 17/16 | 15 ¹ /8 | 31/8 | 91 |
| WLDE-50 | 21/2" | 15 ¹ /2 | 8 7/16 | 75/16 | 17/16 | 15 ¹ /8 | 31/8 | 91 |
| WLDE-125 | 2 ¹ /2" | 15 ¹ /2 | 8 7/16 | 7 ⁵ /16 | 17/16 | 15 ¹ /8 | 31/8 | 92 |
| WLDE-200 | 11/2" | 91/8 | 4 ⁵ / ₁₆ | 3 | 11/16 | 813/16 | 21/8 | 23 |
| WLDE-200 | 2″ | 12 ¹ /8 | 511/16 | 41/2 | 1/2 | 11 ¹ /8 | 3 ¹⁵ /16 | 50 |
| WLDE-200 | 21/2" | 15 ¹ /2 | 8 7/16 | 7 ⁵ /16 | 17/16 | 15 ¹ /8 | 31/8 | 92 |
| WLDES-300 | 21/2" | 15 ¹ /2 | 8 7/16 | 7 ⁵ /16 | 17/16 | 15 ¹ /8 | 31/8 | 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: 21/2" WLDE-125 @ 87,294 lbs/hr

| CAPAC | CAPACITIES — Cold Water (lbs/hr) | | | | | | | | | | | | | | | | |
|-----------|----------------------------------|---------|-------|-----------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Model-PMO | | Orifice | | Differential Pressure (PSI) | | | | | | | | | | | | | |
| (PSIG) | Size | Size | 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 | 21/2" | 2.125" | 19520 | 27605 | 39039 | 55209 | 87294 | 123452 | 151197 | 174588 | 246904 | 276047 | | | | | |
| WLDE-125 | 21/2" | 2.125" | 19520 | 27605 | 39039 | 55209 | 87294 | 123452 | 151197 | 174588 | 246904 | 276047 | 338088 | 390390 | 436469 | | |
| WLDE-200 | 11/2" | .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″ | 11100 | 15713 | 22200 | 31427 | 49690 | 70273 | 86066 | 99381 | 140546 | 157135 | 192450 | 222200 | 248452 | 272165 | 314269 |
| WLDES-300 | 2 ¹ /2" | 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).



WLD600/601 Series

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Float Type Liquid Drain Trap

| 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 Stainless Steel |
| 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 |



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

TYPICAL APPLICATIONS

The WLD600/WLD601 Series are 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 service life
- 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 (or stainless steel body for WLD601) 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''-4'' 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.

OPTIONS

316 SS Body & Cover: use Model WLD601.

| 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 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: 2,000 lbs/hr at 325 PSIG working pressure and

250 PSI differential pressure

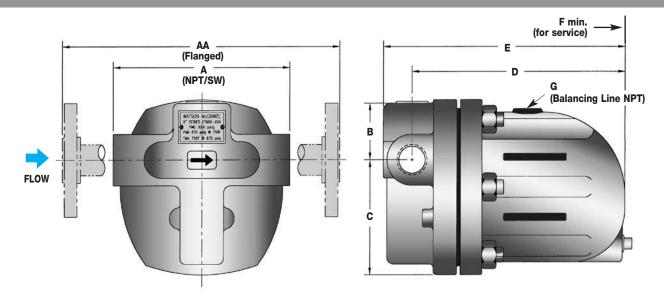
Size/Model: 1" WLD600-450 @ 2,060 lbs/hr



^{* 3/4&}quot;- 2" only.

WLD600/601 Series

Float Type Liquid Drain Trap



| DIME | DIMENSIONS & WEIGHTS — inches/pounds | | | | | | | | | |
|--------------------|--------------------------------------|---------------------|--------------------|---------------------------|---------------------------|---------------------|---------------------------------|-----|------------------|--------------|
| Size | A | AA | В | С | D | E | F | G * | Weight NPT/SW | (lbs) FLG |
| 3/4" | 61/8 | 101/8 | 21/8 | 37/16 | 7 ⁷ /16 | 8 ⁷ /16 | 513/16 | 3/8 | 25 | 31 |
| 1" | 6 ¹ /2 | 10 ⁷ /16 | 21/2 | 51/2 | 8 ⁷ /16 | 91/2 | 6 ⁵ /16 | 3/8 | 31 | 36 |
| 1 ¹ /2" | 913/16 | 14 | 3 ⁷ /16 | 9 | 10 ⁷ /16 | 1115/16 | 7 ¹³ / ₁₆ | 1/2 | 82 | 91 |
| 2" | 11 ¹³ /16 | 16 | 31/8 | 7 ⁷ /16 | 11 ¹ /8 | 13 ⁵ /16 | 6 ¹³ /16 | 1/2 | 93 | 107 |

^{*} Balancing Port available with 1/2" flanged connection. Specify on order.

| CAF | PACII | TIES – | Cold | Water (| (lbs/hr) |) | | | | | | | | | | | | | |
|--------|-------|---------|-------|---------|----------|-------|-------|-------|---------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| PMO | Size | Orifice | | | | | | | Differe | ntial Pre | essure (| PSI) | | | | | | | |
| (PSIG) | (in.) | (in.) | 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 | 11/2" | .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 | 11/2" | .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 | 11/2" | .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 | 11/2" | .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 | 11/2" | .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 |



WLD1400 Series



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Float Type Liquid Drain Trap

| Model | WLD1400 |
|--------------------------------|---|
| Sizes | 1/2", 3/4", 1", 1 ¹ / ₂ ", 2" |
| Connections | NPT |
| Body Material | Ductile Iron |
| PMO Max. Operating Pressure | 300 PSIG |
| TMO Max. Operating Temperature | 450°F |
| PMA Max. Allowable Pressure | 300 PSIG up to 450°F |
| TMA Max. Allowable Temperature | 450°F @ 300 PSIG |





TYPICAL APPLICATIONS

The **WLD1400 Series** is used on air and gas applications as drip traps on piping runs as well as drainage for systems and various process vessels that have moderate condensate loads.

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
- Hardened valve seat for longer service life
- Ductile Iron body
- In-line repairable

SAMPLE SPECIFICATION

The liquid drain trap shall be float operated with a ductile 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. Piping hook-up must include an equalizing line for drainers 1" and larger.

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.

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: 3,500 lbs/hr at 15 PSIG working pressure and

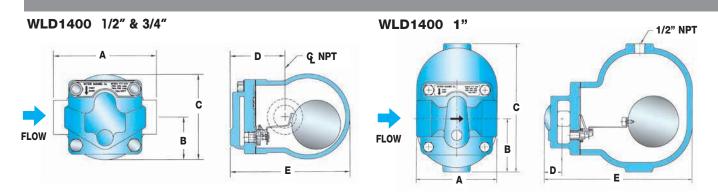
2 PSI differential pressure

Size/Model: 11/2" WLD1416-065 @ 4,300 lbs/hr

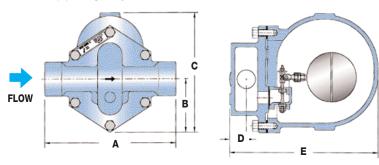


WLD1400 Series

Float Type Liquid Drain Trap



WLD1400 11/2" & 2"



| DIMENSIONS & WEIGHTS - inches/pounds | | | | | | | |
|--------------------------------------|------|-----|-----|-----|-----|--------|--|
| Size | A | В | С | 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 | |
| 11/2" | 10.6 | 4.3 | 9.6 | 1.4 | 12 | 40 | |
| 2″ | 11.9 | 4.3 | 9.6 | 1.4 | 12 | 40 | |

| 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 |

| CAPACII | IES | - c | old W | /ater | (lbs/h | r) | | | | | | | | | | | | | | |
|-------------|-------|--------|---------|-------|--------|-------|-------|-------|-------|-------|----------|---------|----------|-------|-------|-------|-------|-------|-------|------|
| | | PMO | Orifice | | | | | | | Diff | erential | Pressui | re (PSI) | | | | | | | |
| Model | Size | (PSIG) | Size | 1 | 2 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 65 | 75 | 100 | 125 | 145 | 200 | 225 | 300 |
| WLD1412-065 | 1/2" | 65 | .157″ | 250 | 340 | 530 | 730 | 880 | 1010 | 1230 | 1410 | 1560 | 1770 | | | | | | | |
| WLD1413-065 | 3/4" | 65 | .157″ | 250 | 340 | 530 | 730 | 880 | 1010 | 1230 | 1410 | 1560 | 1770 | | | | | | | |
| WLD1414-065 | 1″ | 65 | .273″ | 980 | 1360 | 2090 | 2910 | 3520 | 4040 | 4890 | 5600 | 6220 | 7050 | | | | | | | |
| WLD1416-065 | 11/2" | 65 | .157″ | 3125 | 4300 | 6600 | 9350 | 11225 | 13250 | 16350 | 18700 | 20950 | 23500 | | | | | | | |
| WLD1417-065 | 2″ | 65 | .273″ | 10600 | 14900 | 23300 | 31500 | 38150 | 44750 | 53600 | 61850 | 69200 | 76375 | | | | | | | |
| WLD1412-145 | 1/2" | 145 | .100″ | 110 | 150 | 230 | 320 | 380 | 440 | 530 | 610 | 680 | 770 | 940 | 1050 | 1130 | 1200 | | | |
| WLD1413-145 | 3/4" | 145 | .100″ | 110 | 150 | 230 | 320 | 380 | 440 | 530 | 610 | 680 | 770 | 940 | 1050 | 1130 | 1200 | | | |
| WLD1414-145 | 1″ | 145 | .202″ | 490 | 670 | 1040 | 1440 | 1750 | 2000 | 2430 | 2780 | 3090 | 3500 | 4290 | 4760 | 5110 | 5350 | | | |
| WLD1416-145 | 11/2" | 145 | .100″ | 1575 | 2175 | 3400 | 4650 | 5525 | 6325 | 7750 | 8950 | 9925 | 11000 | 12300 | 13975 | 15300 | 16500 | | | |
| WLD1417-145 | 2″ | 145 | .202″ | 3875 | 5450 | 8575 | 11500 | 12350 | 13200 | 20950 | 24050 | 27175 | 31050 | 34150 | 38500 | 42225 | 45950 | | | |
| WLD1412-225 | 1/2" | 225 | .079″ | 60 | 80 | 130 | 180 | 220 | 250 | 300 | 340 | 380 | 430 | 530 | 590 | 630 | 690 | 740 | 780 | |
| WLD1413-225 | 3/4" | 225 | .079" | 60 | 80 | 130 | 180 | 220 | 250 | 300 | 340 | 380 | 430 | 530 | 590 | 630 | 690 | 740 | 780 | |
| WLD1414-225 | 1″ | 225 | .184″ | 320 | 450 | 690 | 960 | 1160 | 1330 | 1610 | 1850 | 2050 | 2330 | 2850 | 3170 | 3400 | 3710 | 3960 | 4100 | |
| WLD1416-250 | 11/2" | 250 | .079″ | 1000 | 1375 | 2150 | 3050 | 3600 | 4100 | 5025 | 5775 | 6400 | 7300 | 8050 | 8900 | 9750 | 10550 | 12450 | 13150 | |
| WLD1417-250 | 2″ | 250 | .184″ | 1900 | 2675 | 4250 | 5850 | 7000 | 8225 | 10050 | 11595 | 12950 | 15125 | 16700 | 18300 | 20200 | 22100 | 25850 | 27100 | |
| WLD1414-300 | 1″ | 300 | .153″ | 230 | 320 | 500 | 690 | 840 | 960 | 1170 | 1340 | 1480 | 1680 | 2060 | 2290 | 2460 | 2680 | 2860 | 3020 | 3460 |



WLD 1500 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 |

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.



WLD1521/1522/1524 with Strainer

TYPICAL APPLICATIONS

The **WLD1500** Series Inverted Bucket Liquid Drain Traps are recommended for 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 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 port in the top of the bucket and the bucket sinks, repeating the cycle.

FEATURES

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

SAMPLE SPECIFICATION

Drain trap shall be an inverted bucket trap design with cast iron body, all stainless steel internals, hardened valve & seat, plus a scrubber wire. The unit shall be in-line repairable.

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 pipeline. Repair kits include lever & seat assembly, strainer screen and gaskets. For full maintenance details see Installation and Maintenance Manual.

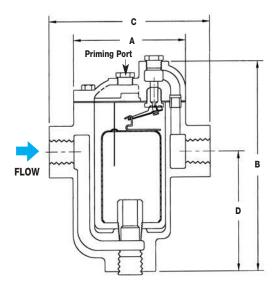
| MATERIALS | |
|-----------------------|--------------------------------|
| Body & Cover | Cast Iron, ASTM A-278 Class 30 |
| Nuts & Bolts | High-Tensile Steel |
| Gasket | Non-Asbestos Fiber |
| Bucket | Stainless Steel |
| Scrubber | Stainless Steel |
| Lever & Seat Assembly | Stainless Steel |
|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

^{*} WLD1521, WLD1522 & WLD1524 models only.

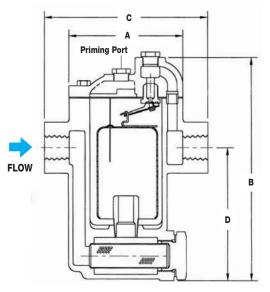


WLD1500 Series

Inverted Bucket Liquid Drain Trap







WLD1521/1522/1524 with Strainer

| DIMEN | SIONS | & WEI | GHTS - | - inches , | /pounds | |
|---------|-------|---------------------|----------------------------|----------------------------|---------------------------|--------|
| Model | Size | A | В | 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" | 313/16 | 61/8 | 5 | 3 ⁷ /16 | 5.5 |
| WLD1522 | 3/4" | 3 ¹³ /16 | 71/8 | 5 | 4 ⁷ /16 | 6 |
| WLD1524 | 1″ | 7 | 12 7/16 | 7 ¹³ /16 | 7 7/16 | 30 |

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

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: 200 lbs/hr at 30 PSIG working pressure and 5 PSI differential pressure

Size/Model: 3/4" WLD1521-150 @ 220 lbs/hr (with strainer)



WLD1703S

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Thermodynamic Drain Trap

| Model | WLD1703S |
|--------------------------------|----------------------|
| Sizes | 1/2" |
| 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 |

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
- Freezeproof in vertical flow-down position

SAMPLE SPECIFICATION

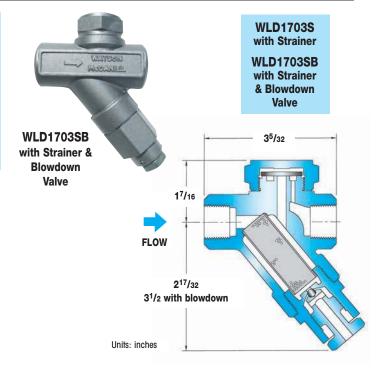
Drain Trap shall be thermodynamic disc type with an all stainless steel construction. Body shall have a built-in strainer with optional blowdown valve. Integral seat design and disc to be hardened for long service life. Unit shall be capable of installation in any orientation and self-draining when mounted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

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 |
| Сар | Stainless Steel, AISI 416 |
| Strainer Screen | Stainless Steel, AISI 304 |
| Blowdown Valve* | Stainless Steel, AISI 303 |

^{*} WLD1703SB model only.

HOW TO SIZE/ORDER

Select working pressure in capacity chart; read number underneath to determine capacity (lbs/hr). Example:

Application: 500 lbs/hr at 80 PSIG inlet pressure Size/Model: 1/2" **WLD1703S** @ 530 lbs/hr

| CAPACIT | IES – d | Cold | Wate | r (lbs/ | /hr) | | | | | | | | |
|-----------|---------|------|------|---------|------|-----------|----------|------|-----|-----|-----|-----|-----|
| | | | | | | Inlet Pre | ssure (P | SIG) | | | | | |
| Model | Size | 2 | 5 | 10 | 25 | 50 | 80 | 100 | 125 | 150 | 180 | 200 | 250 |
| WLD1703S | 1/2" | 90 | 130 | 190 | 300 | 425 | 530 | 600 | 670 | 715 | 790 | 835 | 955 |
| WLD1703SB | 1/2" | 90 | 130 | 190 | 300 | 423 | 530 | 000 | 6/0 | /15 | 790 | 033 | 900 |

Note: 1) Maximum back pressure not to exceed 80% of inlet pressure.

2) To determine gallons per minute of flow, divide values in chart by 500. Example: $600 \text{ lbs/hr} = 600 \div 500 = 1.2 \text{ GPM}$



WLD1800/1800R Series

Guided Float Type Liquid Drain Trap

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





WLD1800 (Non-Repairable)

WLD1800R (Repairable)

TYPICAL APPLICATIONS

The **WLD1800/1800R Series** are 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)

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 non-repairable unit. 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 (Repairable only) | Grafoil |
| Washer, Seat | 302 Stainless Steel |
| *Bolt, Hex, HD | Stainless Steel, AISI 316 |
| *Nut, Jam | Stainless Steel, 18-8 |

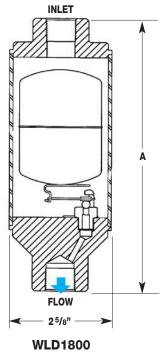
^{*} WLD1800R repairable models only.

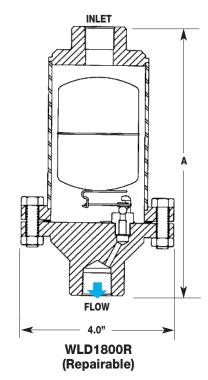


WLD1800/1800R Series

Guided Float Type Liquid Drain Trap

| DIMENS | IONS - | – inches/pour | nds | |
|----------|-----------------|--------------------------|-------------|-----------------|
| Model | Orifice Size | Size (Inlet x Outlet) | Height A | Weight (lbs) |
| WLD1811 | | 3/4" x 1/2" | 7.5 | 4 |
| WLD1811R | | 3/4 X 1/2 | 7.9 | 5 |
| WLD1812 | .078″ | 3/4" x 3/4" | 7.5 | 4 |
| WLD1812R | .070 | 3/4 X 3/4 | 7.9 | 5 |
| WLD1813 | | 1/2" x 1/2" | 7.5 | 4 |
| WLD1813R | | 1/2 X 1/2 | 7.9 | 5 |
| WLD1821 | | 3/4" x 1/2" | 7.5 | 4 |
| WLD1821R | | | 7.9 | 5 |
| WLD1822 | .101″ | | 7.5 | 4 |
| WLD1822R | .101 | | 7.9 | 5 |
| WLD1823 | | 1/2" x 1/2" | 7.5 | 4 |
| WLD1823R | | 1/2 X 1/2 | 7.9 | 5 |
| WLD1831 | | 3/4" x 1/2" | 7.5 | 4 |
| WLD1831R | | 9/7 A 1/2 | 7.9 | 5 |
| WLD1832 | .125″ | 3/4" x 3/4" | 7.5 | 4 |
| WLD1832R | .120 | | 7.9 | 5 |
| WLD1833 | | | 7.5 | 4 |
| WLD1833R | | 1/2 X 1/2 | 7.9 | 5 |





| WLD1800 |
|------------------|
| (Non-Repairable) |

| CAPAC | CAPACITIES - Cold Water (lbs/hr) | | | | | | | | | | | | | | | | | | |
|---------|----------------------------------|-----------------|-----|--|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Series | PMO* (PSIG) | Orifice Size | 1 | Differential Pressure (PSI) 1 2 5 10 15 20 30 50 100 150 175 200 250 275 300 350 | | | | | | | | | | 400 | | | | | |
| WLD1810 | 400 | .078″ | 60 | 80 | 120 | 130 | 180 | 260 | 315 | 400 | 570 | 700 | 750 | 800 | 900 | 940 | 1050 | 1050 | 1120 |
| WLD1820 | 255 | .101″ | 90 | 120 | 175 | 195 | 275 | 385 | 470 | 610 | 860 | 1050 | 1125 | 1200 | 1350 | 1425 | | | |
| WLD1830 | 175 | .125″ | 160 | 230 | 325 | 365 | 510 | 730 | 790 | 1150 | 1630 | 2000 | 2150 | | | | | | |

^{*} PMO based on a liquid with a specific gravity of 1.0. Consult factory for the PMO of a liquid with specific gravity less than 1.0.

| CAPACITY CORI | 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.

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: 1,000 lbs/hr at 250 PSIG working pressure and 200 PSI differential pressure

Size/Model: 3/4" x 3/4" WLD1822 @ 1,200 lbs/hr (non-repairable) or 3/4" x 3/4" WLD1822R @ 1,200 lbs/hr (repairable)



WLD1900 Series

Float Type Liquid Drain Trap

| Model | WLD1900 |
|--------------------------------|----------------------------|
| Sizes | 3/4", 1", 11/4", 11/2", 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"

WLD1900 2"

TYPICAL APPLICATIONS

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

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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
- Hardened valve seat for longer service life
- Cast Iron body
- In-line repairable

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



WLD1900 11/4" & 11/2"

| 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 |



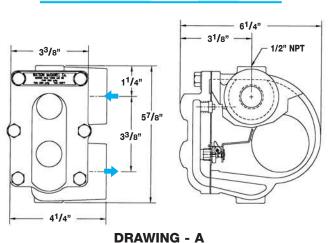
WLD1900 Series

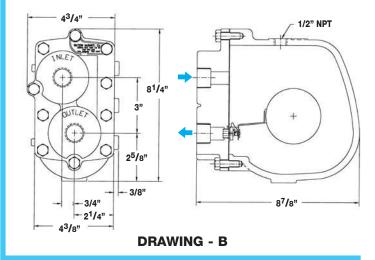


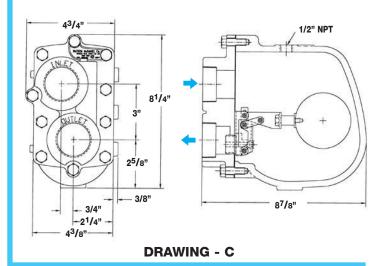
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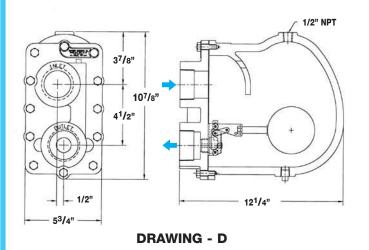
Float Type Liquid Drain Trap

| DIME | NSIONS - | · inches | s/pounc | ds |
|---------|-------------|--------------------|---------------|-----------------|
| Drawing | Model | Size | PMO (PSIG) | Weight (lbs) |
| A | WLD1913-015 | 3/4″ | 15 | 9 |
| Α | WLD1914-015 | 1″ | 15 | 9 |
| Α | WLD1915-015 | 11/4" | 15 | 9 |
| С | WLD1916-015 | 11/2" | 15 | 21 |
| D | WLD1917-015 | 2″ | 15 | 53 |
| Α | WLD1913-030 | 3/4" | 30 | 9 |
| Α | WLD1914-030 | 1″ | 30 | 9 |
| Α | WLD1915-030 | 11/4" | 30 | 9 |
| С | WLD1916-030 | 11/2" | 30 | 21 |
| D | WLD1917-030 | 2″ | 30 | 53 |
| Α | WLD1913-090 | 3/4" | 90 | 9 |
| Α | WLD1914-090 | 1″ | 90 | 9 |
| С | WLD1915-090 | 11/4" | 90 | 21 |
| С | WLD1916-090 | 11/2" | 90 | 21 |
| D | WLD1917-090 | 2″ | 90 | 53 |
| Α | WLD1913-150 | 3/4" | 150 | 9 |
| Α | WLD1914-150 | 1″ | 150 | 9 |
| С | WLD1915-150 | 11/4" | 150 | 21 |
| С | WLD1916-150 | 11/2" | 150 | 21 |
| D | WLD1917-150 | 2″ | 150 | 53 |
| В | WLD1913-200 | 3/4" | 200 | 20 |
| В | WLD1914-200 | 1″ | 200 | 20 |
| С | WLD1915-200 | 11/4" | 200 | 21 |
| С | WLD1916-200 | 11/2" | 200 | 21 |
| D | WLD1917-200 | 2″ | 200 | 53 |
| В | WLD1913-250 | 3/4" | 250 | 20 |
| В | WLD1914-250 | 1″ | 250 | 20 |
| С | WLD1915-250 | 1 ¹ /4″ | 250 | 21 |
| С | WLD1916-250 | 11/2" | 250 | 21 |
| D | WLD1917-250 | 2″ | 250 | 53 |











WLD1900 Series

Float Type Liquid Drain Trap

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: 3,000 lbs/hr at 30 PSIG working pressure and

5 PSI differential pressure

Size/Model: 11/2" WLD1916-030

| CAPACII | TIFS | - C | old W | ater (| lhs/h | r) | | | | | | | | | | | | | | |
|-------------|-------|--------|---------|--------|---------|------|------|-------|------|-------|----------|---------|---------|-------|-------|------|-------|-------|-------|-------|
| OAI AOII | | PMO | Orifice | | 103/111 | 7 | _ | _ | _ | Diff | erential | Pressur | e (PSI) | _ | _ | _ | _ | _ | _ | |
| Model | Size | (PSIG) | Size | 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 | 11/4" | 15 | .312″ | 1130 | 1570 | 2420 | 3360 | 4070 | | | | | | | | | | | | |
| WLD1916-015 | 11/2" | 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 | 11/4" | 30 | .228″ | 830 | 1150 | 1770 | 2450 | 2970 | 3410 | 4130 | | | | | | | | | | |
| WLD1916-030 | 11/2" | 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 | 11/4" | 90 | .312″ | 1130 | 1570 | 2420 | 3360 | 4070 | 4660 | 5650 | 6470 | 7190 | 8710 | | | | | | | |
| WLD1916-090 | 11/2" | 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 | 11/4" | 150 | .250″ | 910 | 1260 | 1940 | 2690 | 3260 | 3740 | 4530 | 5190 | 5760 | 6980 | 8000 | 8890 | 9800 | | | | |
| WLD1916-150 | 11/2" | 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 | | | | | |
| 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 | 11/4" | 200 | .250″ | 910 | 1260 | 1940 | 2690 | 3260 | 3740 | 4530 | 5190 | 5760 | 6980 | 8000 | 8890 | 9690 | 10420 | 11100 | | |
| WLD1916-200 | 11/2" | 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 | _ | 11230 | | | 17320 | | | 22570 | | | |
| 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 | 11/4" | 250 | .203″ | 600 | 830 | 1280 | 1770 | 2150 | 2460 | 2980 | 3420 | 3800 | 4600 | 5270 | 5860 | 6390 | 6870 | 7320 | 7740 | 8140 |
| WLD1916-250 | 11/2" | 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 |



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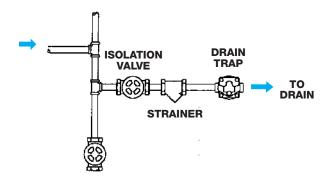
for Liquid Drain Traps

PROPER INSTALLATION OF LIQUID DRAINERS

Liquid Drain Traps are primarily used to remove condensation from air and other non-condensable gas lines. The proper liquid drain trap should be selected based on several parameters, including installation limitations, pressure conditions and the amount of liquid to be drained.

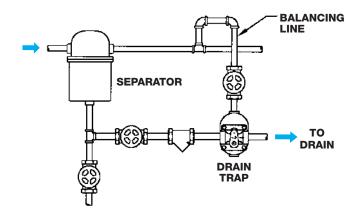
If a Ball & Float Type Drain Trap is selected, typically it is necessary to add a Balancing (or Equalizing) Line to allow any air or gases trapped in the drainer to escape. If the Balancing Line is not installed, these gases can prevent proper operation by air-binding the trap. Inverted Bucket Type & Disc Type Traps will self-vent eliminating the risk of air-binding and therefore do not require Balancing Lines.

Figure 1 Draining Condensate from an Air Line Drip Pocket with a Float Type Drainer



Due to the small amount of condensate normally found in drip leg applications, a small Ball & Float Type Liquid Drainer can be used and a Balancing Line is not required. However, a minimum pipe connection size of 3/4" is recommended for this type of application.

Draining Condensate from a Separator on a Large Air Main with a Float Type Drainer Figure 2



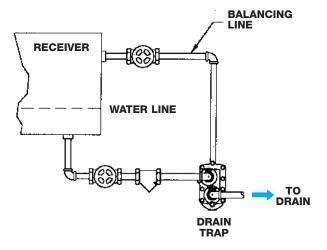
Due to the large amount of condensate normally found in air mains or from the discharge of air compressors, a larger Ball & Float Type Liquid Drainer must be used and a Balancing Line is required.



Installation Guidelines

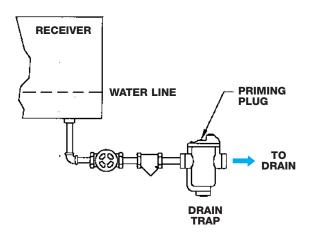
for Liquid Drain Traps (continued)

Draining Condensate from a Receiver with a Float Type Drainer Figure 3



When draining a receiver, a large trap is typically required in order to handle the liquid load. If a Ball & Float Type Liquid Drainer is used, a Balancing Line is required. Make certain that the Balancing Line connection to the receiver is above the water line.

Figure 4 Draining Condensate from a Receiver with an Inverted Bucket Trap



In this example, an Inverted Bucket Type Liquid Drain Trap is used. The Inverted Bucket Trap has a small internal orifice which permits the venting of air, and therefore does not require a Balancing Line. However, it is important to make certain that the Inverted Bucket Trap is primed with liquid before operation.

Note: See installation manual for proper priming procedures.

