POPULAR FITTINGS AND OPTIONS

FOR DOUBLE WALL TANKS.

BAILIFF ENTERPRISES, INC. ◆ 305 E. Rogers Road ◆ Willis, TX 77378
Contact Dan Miller ◆ 936-228-1520 ◆ dmiller@plasticstoragetanks.com

★ BAILIFF ENTERPRISES, INC. ★

PVC U-VENTS



Screened PVC U-Vents are a common type of vent for plastic tanks. Since plastic tanks are designed for atmospheric pressure only, it is important that they be vented to keep from developing a vacuum or over-pressure situation.

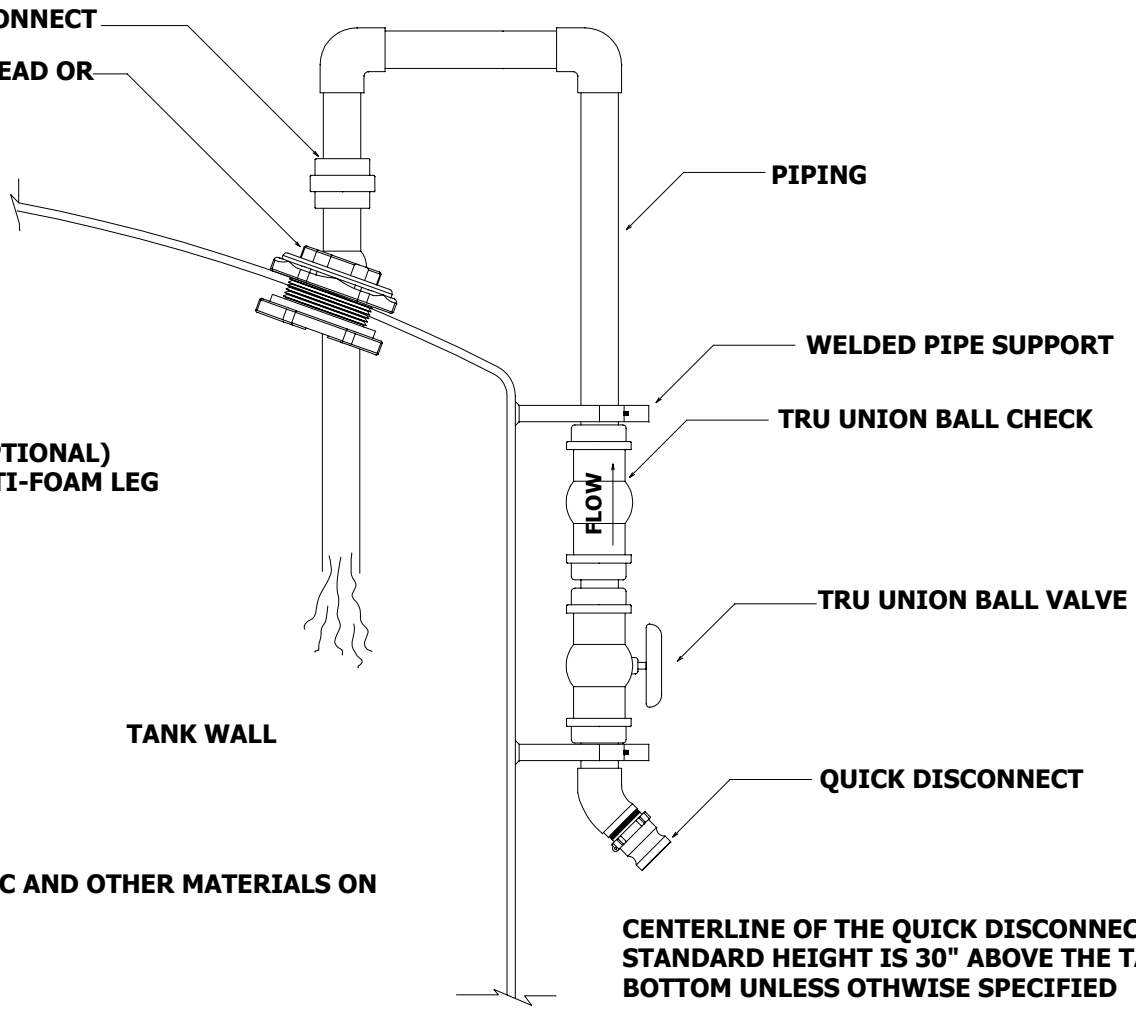
The normal ‘rule of thumb’ for vent sizing is to supply a vent that is 1” larger in diameter than the largest inlet or drain fitting. If you have a 3” flange or coupling, you would typically use a 4” vent.

We have PVC U-Vents available in screened or unscreened versions. Our normal sizes are 2”, 3” and 4”. For sizes larger than 4”, we have fabricated U-vents available.

For more information about our U-vents, please contact:

Dan Miller 713-203-4650

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FILL LINE ASSEMBLY
AVAILABLE IN PVC, CPVC AND OTHER MATERIALS ON REQUEST.

CENTERLINE OF THE QUICK DISCONNECT
STANDARD HEIGHT IS 30" ABOVE THE TANK
BOTTOM UNLESS OTHWISE SPECIFIED

REV	DESCRIPTION	DATE	APPRD

ALL DIMENSIONS ARE IN DECIMAL INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED
+ - .5% @ 68° F

DRAWN / DATE
DHALL/12-9-19

APPRD. / DATE

THIRD ANGLE PROJECTION
ANSI 14.5M

NOTES:

BAILIFF ENTERPRISES, INC.
302 N. THOMASON WILLIS,, TEXAS 77378
PHONE (936) 890-7777 FAX (936) 890-7773

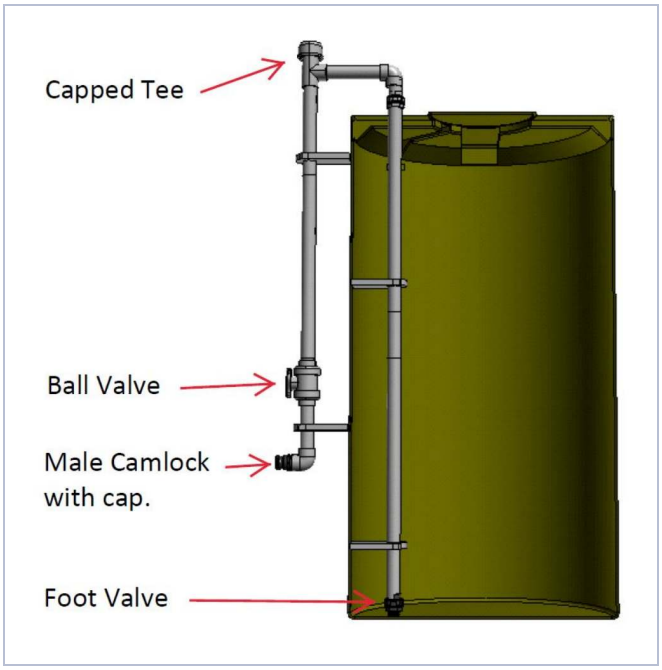
CLIENT / DESCRIPTION
FILL LINE ASSEMBLY

SCALE
N.S.

PART NO.
FILL.CAD

★ BAILIFF ENTERPRISES, INC. ★

TOP DRAIN LINES



Top Drain Lines allow a tank to be drained without sidewall penetration. This is beneficial in every tank but especially important in double wall tanks.

- Top Drains are available in 2", 3" and 4" sizes.
- Available in PVC, CPVC, PVDF, HDPE and Stainless Steel.
- Top Drains are braced with welded supports.

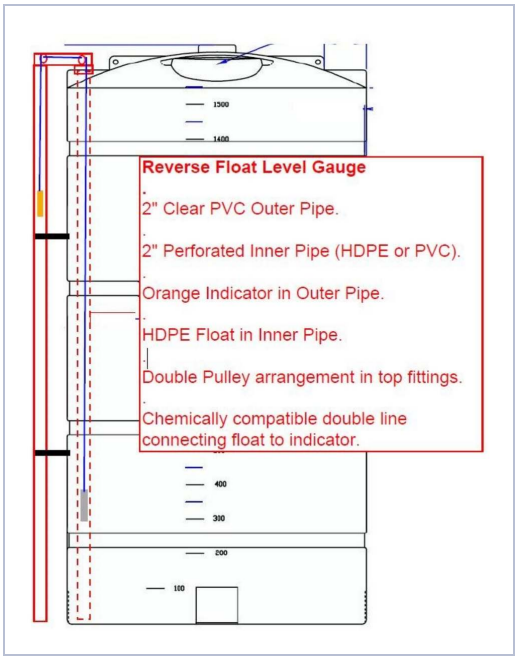
Our Top Drain Lines can terminate outside the tank with a cam lock fitting, flange or NPT threaded fitting. The flanged and threaded fittings are normally used for pump connections. A flexible connection should be used between the pump and tank.

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REVERSE FLOAT LEVEL INDICATOR

Our Reverse Float Level Indicator is a simple effective mechanical method for tracking the fill level of a storage tank. This is especially good for a double wall tank since it does not require sidewall pene-trations.



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THERMOPLASTIC WELDED COUPLINGS

HDPE · Polypropylene · PVDF · FNPT



Welded couplings provide secure threaded fittings for plastic tanks without the need for gaskets. They also allow for vertical pipe connections on sloped areas of the tank dome. We use thermoplastic welding to fuse couplings to the tanks.

Types & Sizes

- Polyethylene (HDPE) — 1″ to 4″ pipe size, FNPT.
- Polypropylene — 1″ to 4″ pipe size, FNPT.
- PVDF — ½″ to 6″ pipe size, FNPT.

> **Custom-fit:** We custom fit tanks with the fittings, options and accessories our customers need. Contact us to see how we can help you.

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THERMOPLASTIC WELDED FLANGES



Welded flanges provide secure fittings for plastic tanks without the need for gaskets. We use thermoplastic welding to fuse flanged fittings to our tanks in a wide range of sizes.



Welded flanges are available in polyethylene, polypropylene and PVDF. Our flanges are ANSI 150# flanges. We use flat face flanges and Vanstone loose backing rings for easy fit-up to your pipes.



Polyethylene - 3/4" to 30" in diameter. Polypropylene - 1" to 10" in diameter. PVDF - 1/2" to 11" in diameter.

We custom fit tanks with the fittings, options and accessories our customers need. Contact us to see how we can help you.

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COMMON VALVES

WE STOCK SEVERAL TYPES OF VALVES TO FIT THE REQUIREMENTS OF MANY APPLICATIONS. THESE ARE THE 3 MOST COMMON TYPES.



True Union Ball Valves are designed for industrial settings. The body of the valve can be replaced without dismantling the surrounding piping. These valves are available in PVC and CPVC. The internal O-rings can be FPM (like Viton) or EPDM. The valve seats are PTFE. Connections can be either threaded or socket. Automated (actuated) versions are available. ($$$)



Polypropylene Bolted Ball Valves are rugged valves. They are constructed from Polypropylene and have PTFE seat material. They have a design pressure rating of 150 psi. Locking arms are available to keep unauthorized persons from opening or closing the valve. ($$)



Compact Ball Valves are simple inexpensive valves . These valves are available in PVC and CPVC. The internal seals can be Viton or EPDM. These valves are available for threaded or socket connections. ($)



Check Valves are used to keep liquid flowing in only one direction. They can be used to keep liquid from siphoning back. These valves are available in PVC and CPVC. The internal seals can be Viton or EPDM. These valves are available for threaded or socket connections.

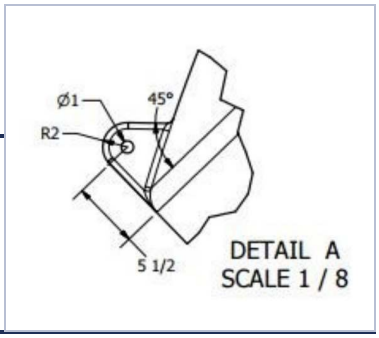
We can also supply less common valve types that may be more appropriate for applications. These include butterfly valves, PVDF valves and more. Just let us know what you need.

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SEISMIC & WIND RESTRAINT SYSTEM

Our Seismic and Wind Restraints system consist of:



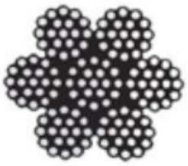
FOUR (OR

- Four heavy duty tie-down lugs molded into (vwusroaldad an) tha pnnar cidausnll af tho tanl-

WELDED ON)

the upper sidewall of the tank.

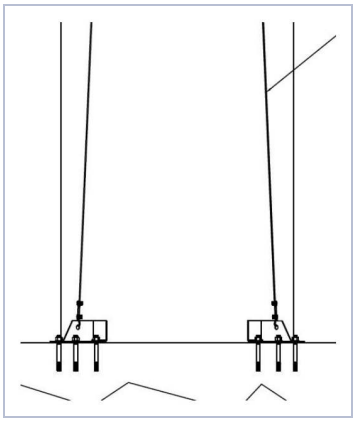
4 AIRCRAFT

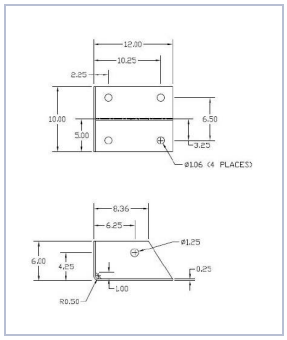


- 1/4" thick galvanized steel aircraft cable. It has excellent flexibility and good abrasion re-sistance. Batad at JTNNAN nnirnde hvranling ctranacth Tha

RATED AT 7,000 POUNDS BREAKING STRENGTH. THE CABLE IS CUT TO LENGTH FOR EACH ANCHOR POINT.

- 6" tall x 10" wide x 12" deep anchors made from A-36 steel, which has been galvanized, connect with the cables and are bolted into the concrete base. The holes are designed for 1" bolts.
- The cables, anchors and cable clips are all included. The cable clips are galvanized, drop forged steel shackles.
- The restraints are rate for 155 mph winds. We offer site specific, stamped wind and seismic calculations at additional cost.





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DOUBLE WALL FLANGES W/WELDED FLANGE

When the space between the walls of the primary and secondary tank is too small to accommodate the length of the expansion joint, we add a welded flange to the outer tank to allow the expansion joint to fit.

The welded flange is extended to whatever length is needed to match up to the face of the expansion joint. A blind flange or HDPE bolted cover is attached to the welded flange and a bolted double flange is attached to the outside.



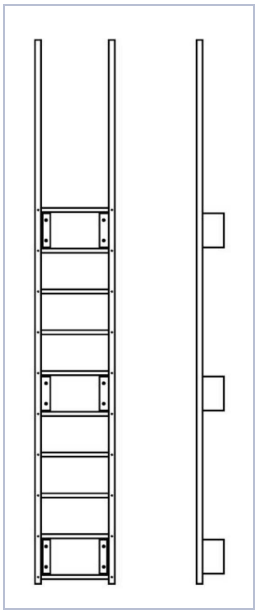


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FIBERGLASS LADDERS WITH WALKTHROUGHS

We can supply OSHA approved ladders for your tank. The most popular type is the straight fiberglass ladder with a walkthrough. The walkthrough gives the worker grab handles that extend beyond the top step of the ladder.



We can supply caged ladders but OSHA is moving away from them and toward straight ladders that may need to be equipped with fall arrest devices. The height of the ladder is the key to determining whether a fall arrest device is required.

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Leak Detection System
Model: Leak Minder ®™LDA-1

JWB Company
65 August Avenue
Wolcott, CT 06716
(203) 879-6959 FAX (203) 879-7299

www.jwbcompany.net

Interstitial Leak Detection System for Doublewall Storage Tanks



Interstitial Leak Detection Control Box and Probe

System is designed and fabricated in a sturdy weathertight NEMA 4X enclosure.
The system includes a single conductance probe with 16 feet of cable designed to be dropped to the bottom of the interstitial space of the tank.
The system is mounted at the top of the tank with a 2" NPT connection providing a liquid tight seal at the enclosures base.



Installation

Installation is as simple as connecting 110 VAC power and wiring in the probe Assembly. You are up and running in no time!



Audible & Visual Alarms

Standard system is supplied with audible and visual alarms. As an option an auxiliary relay (Form C, NO/NC 5A @ 120 VAC) can be provided to connect to an external PLC or control system.
When a leak is detected a single red stobe light will illuminate and a loud audible horn will activate (user can Silence) @ 95 dB.
If the leak probe fails or becomes disconnected, the alarm light will go on solid.

Quick Specification

Each tank shall be installed with a leak detection system to detect liquids within the interstitial space between the primary and secondary tank. Leak detection control system shall be mounted in a NEMA 4X enclosure. The system shall include both audible and visual alarms, as well as a optional auxiliary relay output rated at 5A @ 120 VAC. The audible alarm shall have an output of approximately 95 dB at two week distance. A flashing strobe light shall be mounted at the bottom of the enclosure as well a button to silence the audible alarm. The leak detection probe shall be conductance type and be provided with 16 feet of interconnection cable. The leak detection system shall be Model Leak Minder®™ manufactured by JWB Company in the USA.

★ BAILIFF ENTERPRISES, INC. ★

TANK INSULATION

We offer insulated tanks. The insulation is a spray-on closed cell Polyurethane foam that is normally applied with a 2" thickness.

The R-value of the the closed cell insulation is 3.5 per inch. That gives an overall R-value of 7 for the two inches that are applied.



The insulation is coated with a white mastic sealant that gives UV protection to the foam. A mastic is used so it will stretch when the tank expands and contracts during temperature changes.



Heat Tracing is very often chosen in combination with insulation on our tanks. With Heat Tracing, electrical heat pads can maintain a minimum temperature of the liquid inside the tank.

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EchoSonic® II LU23/27/28/29 Ultrasonic Level Transmitter

Application



LU27 LU23/28/29

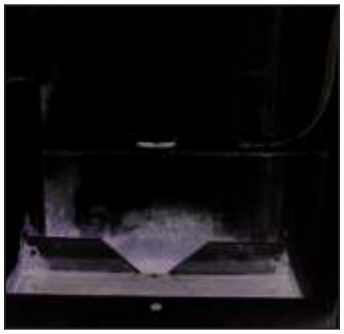
Offered in a type 6P enclosure with cable interface, the general purpose ultrasonic level transmitter provides continuous level measurement up to 32.8' (10m) with a 4-20 mA signal output, and is configured via our free Webcal software. This non-contact liquid level sensor is ideally suited for corrosive, ultrapure, sticky or dirty liquids, and is broadly selected for bulk storage, day tank, lift station and process tank level applications.

RoHS Compliant CE FM APPROVED

Features

- Offered in 4 measurement ranges from 9.8' (3m) to 32.8' (10m)
- DSP auto adaptive filters enable plug and play operation optimizing signal output filtering and obstacle recognition
- Submersible type 6P enclosure is ideal for sump and below grade installations
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2" or 3" beam width for applications with limited measurement space
- Short 4" or 8" dead band maximizes the measurable filling capacity of the tank
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement

Success



Ultrasonic level sensors are often used to measure open channel water flow thats discharged from rivers, streams, creeks, lakes or ponds. Here an EchoSonic II level sensor is installed on the upstream side of a weir. The non-contact sensor measures the gravity-fed, liquid surface height as it passes through the V-notch, and provides a continuous 4-20 mA signal output. The PLC converts level height into flow volume with rate, totalization and data-logging functions for wastewater treatment and environmental reporting.

Compatible Products

DataLoop™
Level Indicator



LI25

DataView™
Level Controller



LI55

Commander™
Multi-Tank Level Controller



LI90

DataPoint™
Level Controller



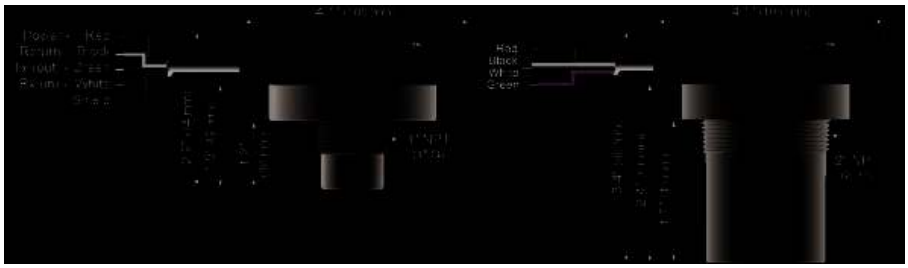
LC52

EchoSonic® II LU23/27/28/29 Ultrasonic Level Transmitter

Specifications

Range:	LU27: 4” to 9.8’ (10cm to 3m) LU23: 8” to 18.0’ (20cm to 5.5m) LU28: 8” to 26.2’ (20cm to 8m) LU29: 8” to 32.8’ (20cm to 10m)
Accuracy:	± 0.2% of range
Resolution:	LU27: 0.019” (0.5mm) LU23: 0.039” (1mm) LU28/29: 0.079” (2mm)
Dead band:	LU27: 4” (10cm) LU23/28/29: 8” (20cm)
Beam width:	LU27: 2” (5cm) LU23/28/29: 3” (7.6cm)
Configuration:	WebCal® PC Windows® USB 2.0
Memory:	Non-volatile
Supply voltage:	24 VDC (loop)
Consumption:	0.5W
Loop resistance:	500 ohms @ 24 VDC
Signal output:	4-20 mA, two-wire
Signal invert:	4-20 mA or 20-4 mA
Signal fail-safe:	4 mA, 20 mA, 21 mA, 22 mA or hold last
Process temp.:	F: -4º to 140º C: -20º to 60º
Temp. comp.:	Automatic
Ambient temp.:	F: -31º to 140º C: -35º to 60º
Pressure:	MWP = 30 PSI (2 bar)
Enclosure rating:	Type 6P, encapsulated, corrosion resistant & submersible
Encl. material:	Polycarbonate
Trans. material:	PVDF
Cable jacket mat:	Polyurethane
Cable type:	4-conductor, shielded
Cable length:	10’ (3m)
Process mount:	LU27: 1” NPT (1” G) LU23/28/29: 2” NPT (2” G)
Mount gasket:	Viton®
Classification:	General purpose
Compliance:	CE, RoHS
Approvals:	cFMus

Dimensions



Configuration

The level sensor is configurable via our free WebCal PC software and Fob USB adapter. The sensors are offered with and without Fobs. Fobs are universal and can be used to configure any WebCal compatible product. Download your free copy of WebCal in English or Chinese at www.flowline.com/webcal.php.



LI99-1001

Fittings

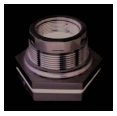
For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.



P/N	Description
LM52-1400	2” NPT x 1” NPT (Sch. 40)
LM52-2400	3” NPT x 2” NPT (Sch. 40)
LM52-2800	3” NPT x 2” NPT (Sch. 80)
LM52-3800	4” NPT x 2” NPT (Sch. 80)



LM52-1410	2” Socket x 1” NPT (Sch. 40)
LM52-2410	3” Socket x 2” NPT (Sch. 40)
LM52-3410	4” Socket x 2” NPT (Sch. 40)
LM52-2810	3” Socket x 2” NPT (Sch. 80)
LM52-3810	4” Socket x 2” NPT (Sch. 80)



LM52-2890	2” NPT Bulkhead Fitting, PVC



LM50-1001-1	1” NPT Bracket, Polypropylene
LM50-1001	2” NPT Bracket, Polypropylene

Ordering

LU2 [3] - [0] [1]

Sensor range
- *7 — 3m (9.8')*
- *3 — 5.5m (18.0')*
- *8 — 8m (26.2')*
- *9 — 10m (32.8')*

Process mount (1)
- *0 — NPT (US)*
- *1 — G (Metric)*

Fob USB adapter (2)
- *0 — Without Fob*
- *1 — With Fob*

Notes

1) Install the level sensor using Flowline installation fittings or equivalents.
2) The level sensor is configured via our WebCal software and one LI99-1001 Fob USB adapter. The level sensor is offered with and without a Fob. Fobs are universal and can be Used to configure any WebCal compatible product. WebCal is a free download from our website at www.flowline.com/webcal.php.

DataView™ LI55

Level Controller

FLOWLINE™
LEVEL BEST

Application

The general purpose AC or DC powered level controller displays engineering units with one 4-20 mA level transmitter input and is offered in three configurations with optional 2 or 4 programmable relays, and an isolated 4-20 mA repeater. Each relay can be configured on a single set point (high level alarm or low level alarm) or latched on two set points for automatic fill or empty in simplex (one pump or valve) or duplex (two pumps) level control modes.



Features

- LED main display and secondary unit display with relay status
- Easy configuration via the push button display module
- DIN enclosure with NEMA 4X faceplate and shallow case
- Isolated power supply to sensor with optional 4-20 mA repeater
- Non-volatile memory with security password protection
- 32-point linearization function for volumetric measurement

Key Benefits

- Capable of displaying units in gallons, liters, inches, feet, meters or percent of liquid
- Add 2 or 4 relays to control tank pumps, valves or alarms
- Add repeater output to repeat the 4-20 mA signal to another PLC, SCADA or display
- Available in AC or DC powered configurations

Compatible Products



LG10/LG11

ECHOWAVE®

Guided Wave Level Transmitter



LU28

ECHOSONIC®

Ultrasonic Level Transmitter



DL14

ECHOPOD®

Ultrasonic Level Transmitter



LU83

ECHOSPAN®

Ultrasonic Level Transmitter



LR15

ECHOPULSE®

Pulse Radar Level Transmitter

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DataView™ LI55

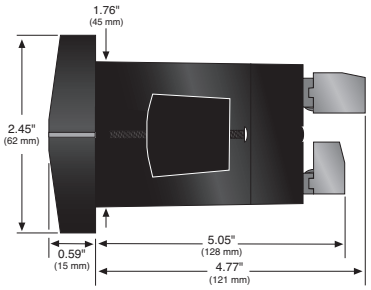
Level Controller

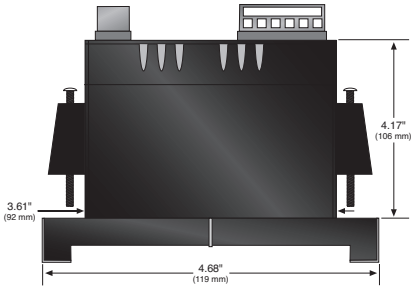
FLOWLINE™
LEVEL BEST

Specifications

Display type:	LED, 6-digit
Display units:	Engineering
Display output:	-99999 to 999999
Display height:	Main: 0.6” (15mm)
	Secondary: 0.46” (12mm)
Decimal point:	Floating
LED indication:	Relay status
Configuration:	Push button
Memory:	Non-volatile
Linearization:	2-32 point function
Sensor input:	(1) 4-20 mA or 0-10 VDC
Supply voltage:	-1_ _1: 85-265 VAC @ 50-60 Hz
	-8_ _1: 12-24 VDC ±10%
Consumption:	VAC: 20 watts max.
	VDC: 15 watts max.
Sensor supply:	24 VDC ± 5% @ 200 mA
Repeater output:	4-20 mA, 24 VDC ± 5%
	@ 40 mA supply
Contact type:	-12_1: (2) SPDT relays
	-14_1: (4) SPDT relays
Contact rating:	3A @ 30 VDC, 250 VAC
	resistive load
Ambient temp.:	F: -40° to 149°
	C: -40° to 65°
Enclosure type:	1/8 DIN, panel mount
Enclosure rating:	NEMA 4X (IP65) faceplate
Enclosure mat’l:	Polycarbonate
Classification:	General purpose
Compliance:	CE
Approvals:	UL, cULus listed,
	E160849, 508 industrial
	control equipment

Dimensions





Accessories







P/N	DESCRIPTION
LM92-1002	Single indicator windowed, 1/8 DIN, PC
LM92-2002	Two indicator windowed, 1/8 DIN, PC
LI56-1011	4-20 mA repeater card
LI56-1201	2 relay card
LI56-1211	2 relay with 4-20 mA repeater card
LI56-1401	4 relay card
LI56-1411	4 relay with 4-20 mA repeater card

Ordering

LI55 - [ ] [ ] [ ] 1

SUPPLY VOLTAGE
- **1** 85-265 VAC
- **8** 12-24 VDC

CONFIGURATION (1) (2)
- **0** Meter only
- **2** Meter with 2 relays
- **4** Meter with 4 relays

REPEATER CONFIGURATION
- **0** No repeater
- **1** 4-20 mA repeater

NOTES

1) For field mount installation in a NEMA 4X, polycarbonate windowed enclosure, order the single or two indicator box.
2) Expansion cards may be purchased separately to replace or expand the capability of the controller.

AC - LI55-1211

DC - LI55-8211

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2XTC

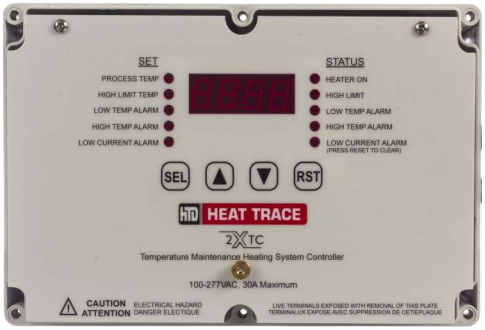
Microprocessor Based Tank Heating Controller



The 2XTC Tank Heating Controller is the most complete and versatile tank heating controller in existence. Use this product to accurately control SPX and EGLX tank heating pads as well as WinterSafe Self-Regulating Heating Cable.

PRODUCT FEATURES

- Process temperature control with hi-limit protection
- 100-277 VAC, 50/60 HZ, 30A
- Use with up to 6 heaters
- Push-on heater connections for a quick installation
- Simple operation and customizable preset
- High temperature, low temperature, and low current alarms
- Alarm contact for communication with customer systems (NO or NC, selectable)
- NEMA4X, IP66, polycarbonate enclosure
- 4-20mA retransmission output
- Includes two RTDs
- cETLus approved for use in the USA and Canada



Contact HTD Heat Trace today to discuss your heat tracing requirements
908-788-5210

www.htdheattrace.com

Description

The HTD Heat Trace 2XTC Temperature Maintenance Heating System Controller is specifically designed for heating systems requiring process temperature control with high limit temperature protection. The most common tank heating applications using process and high limit control are non-metallic tanks, lined tanks or tanks with heat sensitive contents. This controller is designed for use with SPX heating pads, EGLX heating panels, heating cable and any other electric trace heater. The 2XTC controller is provided in a NEMA4X/IP66 polycarbonate enclosure for use indoors or outdoors

The 2XTC controller can be used on power supplies from 100 to 277 VAC for maximum versatility. The controller switches up to a 30A heating load using active arc suppression for maximum relay contact life.

The controller provides indication of process sensor temperature, over limit sensor temperature and heater current using a simple main setting menu. Indication is provided using high visibility LED number indication as well as LED lights showing set values and system status.

The 2XTC controller provides alarm and system status for use with remote monitoring such as DCS or SCADA systems. Alarms are provided for low temperature, high, temperature and low current alarm. These alarms are indicated by lights on the front of the controller and relay contacts for remote indication. Alarm relay contacts are selectable for close or open on alarm. In addition the controller offers current interval testing to periodically test for correct heating current. The current alarm can be set to off if not desired or test frequencies of 24, 168 or 720 hours. A 4-20 mA retransmission output is also provided for remote indication of the process temperature.

Technical Specifications

General

Power Input:	100-277 VAC, 50/60HZ, 30 Amps maximum
Operating Temperature:	-40°F to 113°F (-40 to 45°C)
Process Control:	On/Off with adjustable hysteresis
Process Control Output:	SPST NO Relay rated 30 Amps at 277 VAC with active arc suppression

Setting Range

Process Temperature:	0-200°F
High Limit Temperature:	0-250°F
Low Temperature Alarm:	0-200°F
High Temperature Alarm:	0-200°F
Low Current Alarm:	OFF or 0.5 to 30 Amps

Alarm and System Status

Alarms:	Low Temperature, High Temperature and Low Current
Alarm Indication:	LEDs on the controller face
Alarm Outputs:	SPST Relays rated 5 A at 277 VAC/5A at 30 VDC
Alarm Output Type:	Relay contact Selectable open or close alarm
Retransmission Output:	4-20 mA indication of process temperature with selectable span

Sensor Input

Sensor Type:	1KΩ Platinum RTD, 2 wire
Sensor α:	0.00385

Approval

UL 508

CSA 22.2 #14

SPX

For freeze protection and process heating applications on Plastic Tanks

PLASTIC TANK HEATING PAD

- *Specifically designed for safe, reliable operation on heat sensitive plastic storage tanks*
- *Proven epoxy-glass laminate platform performance, with thousands of major installations worldwide*
- *Two pad sizes and power outputs for conventional, small and custom-shaped tanks.*
- *Quick, simple, low cost, one person installation*
- *Ultra low watt density, high efficiency, flexible heating pads with adhesive backs.*
- *Pending FM and CSA approval to all current IEEE and NEC Standards*

The HTD Heat Trace SPX heater pad is the latest step in the improvement of the SilcoPad range of heaters for plastic tanks.

The SPX epoxy/glass composite construction was first developed and used in the Eagle Panel range of products for heating FRP tanks.

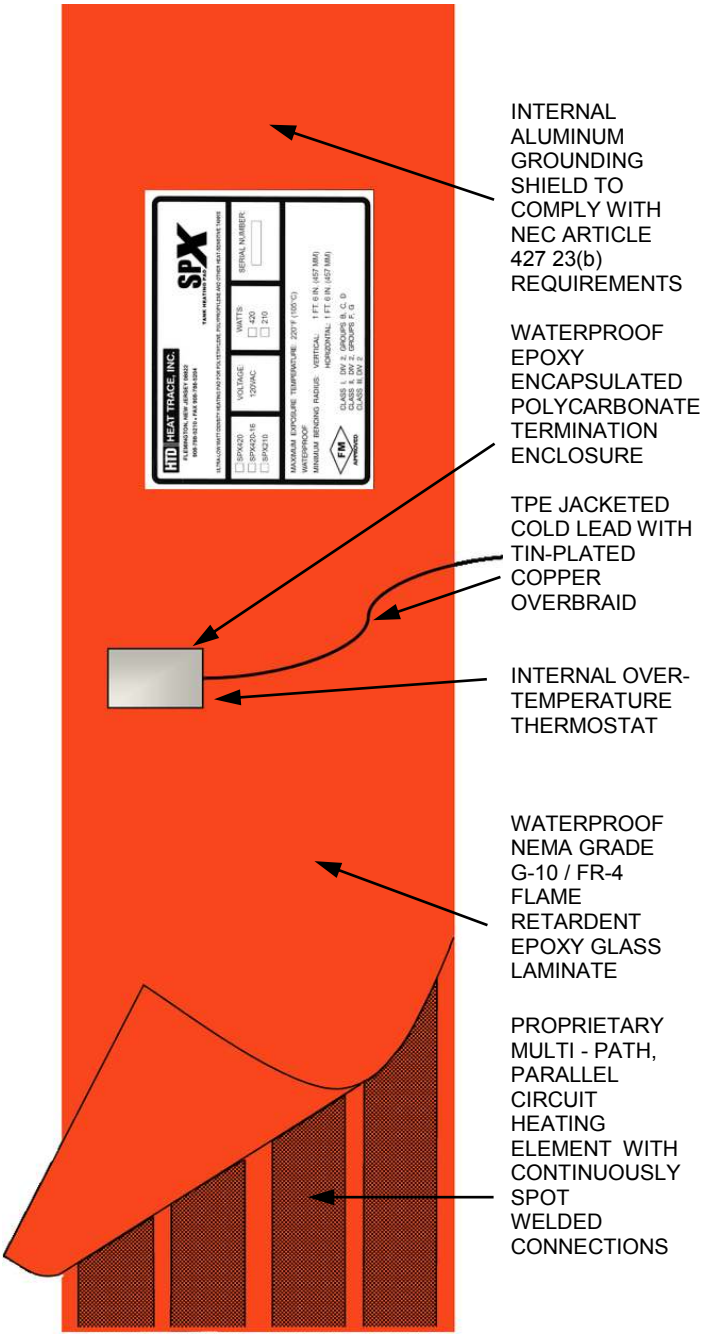
This rugged construction has been re-engineered for performance on heat-sensitive tanks, resulting in a new, ultra-low watt density, highly flexible, waterproof heating pad that includes adhesive backing for quick and simple installation.

The SPX tank heater pad has been specifically designed for temperature maintenance and freeze protection on heat-sensitive polyethylene and polypropylene tanks. These tanks require ultra-low watt density, evenly applied heat.

The SPX heater pad provides this with the added safety feature of an internal over-temperature thermostat. This extra feature ensures that the pad cannot operate above the maximum permissible temperature of the tank.

Being completely waterproof, the new SPX heater pad will continue to operate as designed even if rain, flooding or tank overflow infiltrates between the tank and the thermal insulation.

The new HTD Heat trace SPX 210 and SPX 420**:** engineered for efficiency, long life and safety.



HTD HEAT TRACE

8 Bartles Corner Road, Unit # 104
Flemington, NJ 08822-5758 USA

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SPECIFICATIONS

PLASTIC TANK HEATING PAD

PRODUCT FEATURES

ULTRA-LOW WATT DENSITY	SPX Tank Heater pads have a power rating of 0.39 w/sq.in for ultra-safe operation and reliability on heat-sensitive applications
LAMINATED CONSTRUCTION WITH PEEL AND STICK APPLICATION	With its laminated, epoxy composite construction, the SPX heater pad is superbly qualified to meet the rigorous requirements for use in all industrial and climatic environments. It is extremley rugged, completely waterproof, dust-tight and corrosion-resistant.
MULTI-PATH PARALLEL CIRCUIT HEATING ELEMENT	SPX heater pads are built with unique, multi-path, parallel circuit heating elements that are significantly safer and more reliable than the series type heating elements used in competitors products.

PRODUCT REFERENCES, RATINGS AND SIZES

SPX 420	420 Watts (0.39 w/sq.in) 60" long by 18" wide (457 x 762 mm)
SPX 210	210 Watts (0.39 w/sq.in) 30" long by 18" wide (457 x 1524 mm)

APPLICATIONS AND USAGE

TANK MATERIAL	APPLICATION RANGES	SPX 420	SPX 210
Polyetheylene, Polypropylene	Up to 150° F (66°C)	YES	YES
FRP	Up to 150° F (66°C)	YES	YES
Steel, Stainless Steel	Up to 150° F (66°C)	YES	YES

DESIGN RATINGS

MAX MAINTAIN TEMP	150° F (66°C)
MAX EXPOSURE TEMP	220°F (104° C)
MIN INSTALLATION TEMP	50 °F (10°C)
MINIMUM BENDING RADIUS	18" (457mm) Do not install SPX panels on any tank that is less than 36 "(914mm) diameter
VOLTAGE RATINGS	120 VAC *Consult HTD for 240 VAC applications

CONSTRUCTION

HEATING ELEMENTS	Multi-path, parallel circuitry
CIRCUIT CONNECTIONS	Stainless steel bridge pieces continuously spot welded with triple welding passes
DIELECTRIC CONSTRUCTION	Multi-layer glasscloth composite
LAMINATE PROPERTIES	Density - 0.069 lbs/cu.in Rockwell Hardness - 115 Flexural Strength - 50,000 psi Dielectric Strength - 550 vpm Flammability Rating - UL-94.V.O
GROUND SHIELD	5 mil thick aluminum mesh
TERMINATION METHOD	Epoxy encapsulated polycarbonate termination box
COLD LEAD CABLE	3-16 AWG conductors with TPE outer jacket and Tin-Plated Copper overbraid
COLD LEAD LENGTHS	Standard type SPX420 pad and SPX 210-10 FT (3 M) SPX 420-16, 16 FT (4.87 M)

APPROVALS & STANDARDS

Factory Mutual re-approval pending
CSA approval under application

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