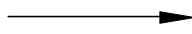
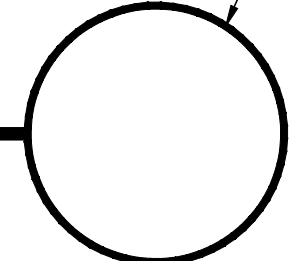


ACID WASTE FROM RISERS

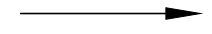
FLOW



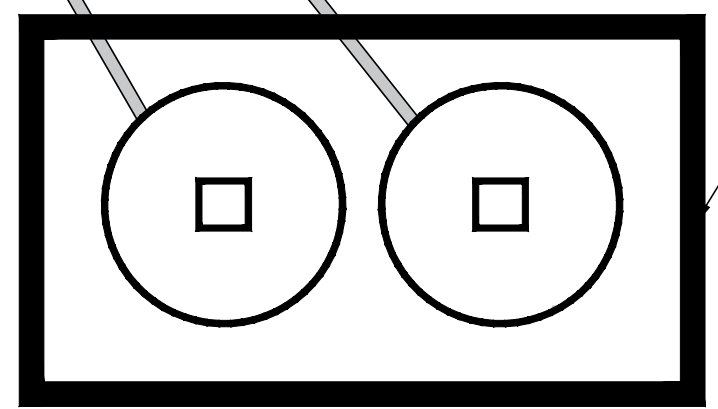
NT-30 SAMPLING TANK



OUT TO SANITATION



TREATMENT SKID



CONTROL PANEL



UNLESS STATED OTHERWISE DIMENSIONS ARE IN INCHES	MATERIAL: HDPE			TITLE: METHOD 2A LAYOUT	SHEET 1 OF 1	REV:	 WWW.TANDCPLASTICS.COM 732-780-5300	
	WEIGHT [lb]:		NAME: DR			DATE: 10/18/2022		SIZE:
	DO NOT SCALE DRAWING		CHECKED:					SCALE: 1:2
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B

A

A

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## AGITATOR / MIXER CLAMP MOUNTED CD SERIES

### **C-CLAMP MOUNTED**

#### **SHAFT SPEED of 1750 RPM:**

square pitch impellers are standard

**STANDARD MOTORS** are **NEMA** c-face design:  
impellers and shafts are 316SS

#### **SMALL MIXERS, BIG IMPACT**

The CD Series is suitable for smaller batches or OEM applications. They feature large sealed ball bearings on the output shaft to absorb side loads.

These mixers are recommended for blending in 50 to 500 gallon tanks and applications for moderate shear or blending light liquids.

#### **SELF-ALIGNING HOLLOW QUILL SHAFT**

Provides maximum protection for drive bearings and gears while eliminating the need for expensive removable couplings.

#### **OVERSIZED ROLLER BEARINGS**

Timken tapered roller bearings are used throughout the gearbox and are rated up to 100,000 hours of L-life. Designed-in end play assures correct pre-load. Oversized bearings are designed to carry process overloads under combined radial and axial loads.

#### **EFFICIENT MOTORS**

115/230/1/60 or 208/230/460/3/60; TEFC, TEXP, Chemical Duty. Washdown, High Efficiency. 50Hz and special voltages available. Air motors at 1/4, 1/3, 1/2, and 1HP. AC & DC variable speed drives.



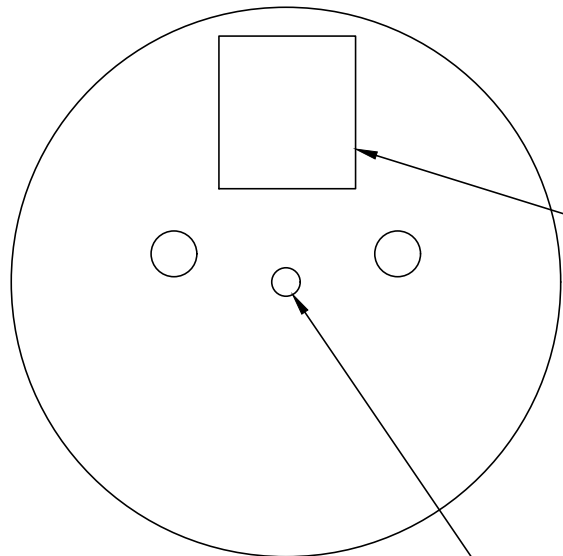
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**TOP VIEW**



B-111 CHEMICAL FEED PUMP

1 1/4" FPT

B-111 CHEMICAL FEED PUMP

CHEMICAL INLET

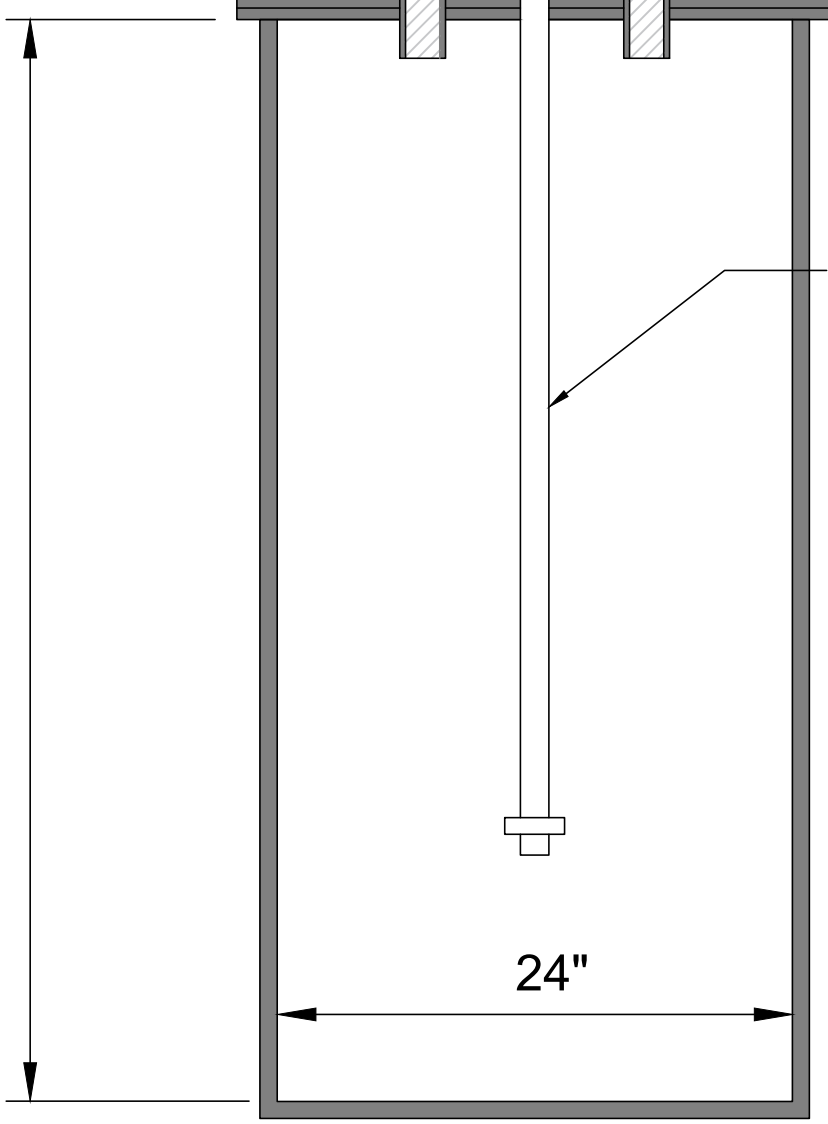
2" VENT

LOW LEVEL FLOAT ASSEMBLY

48"

24"

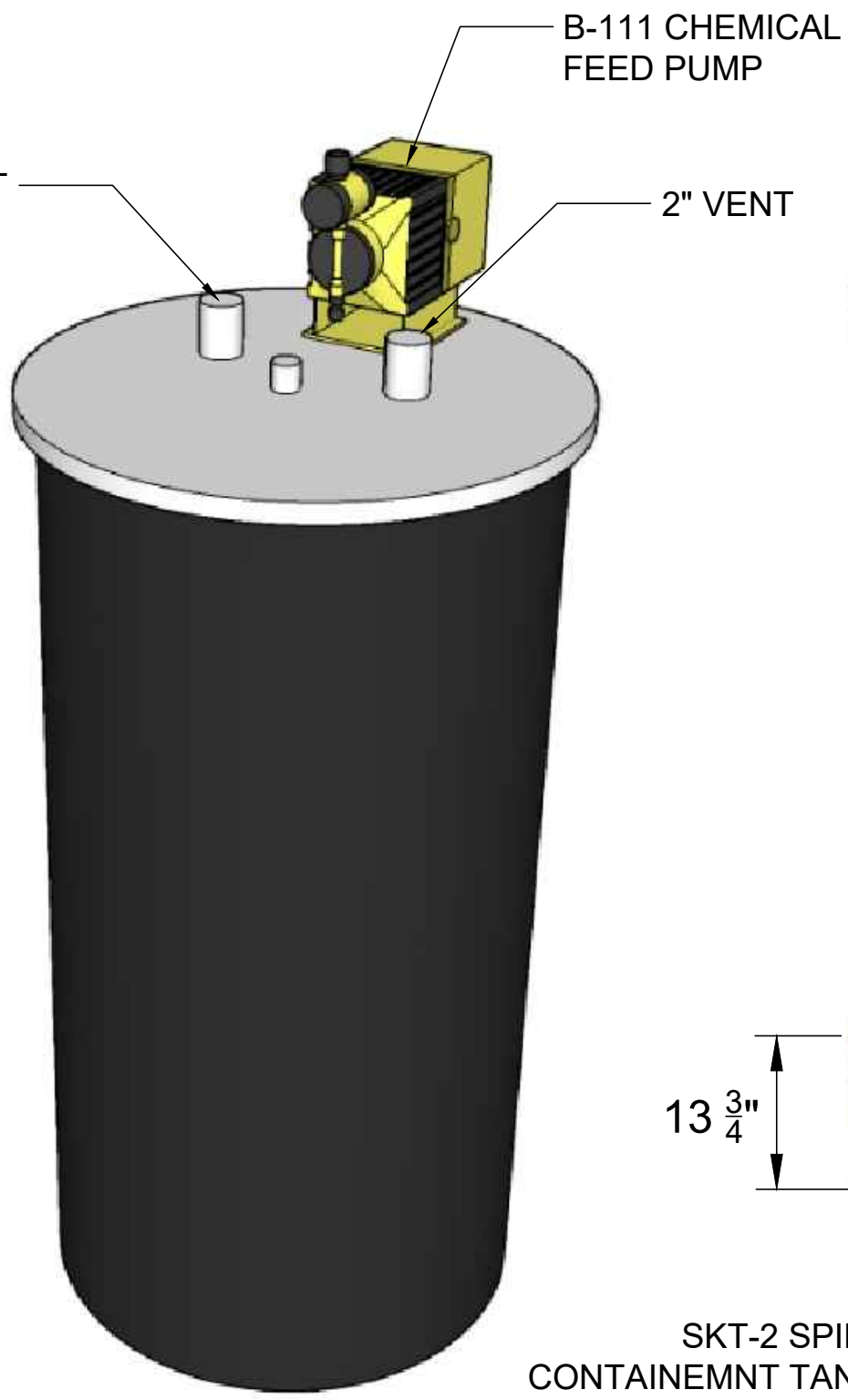
**SECTION VIEW**



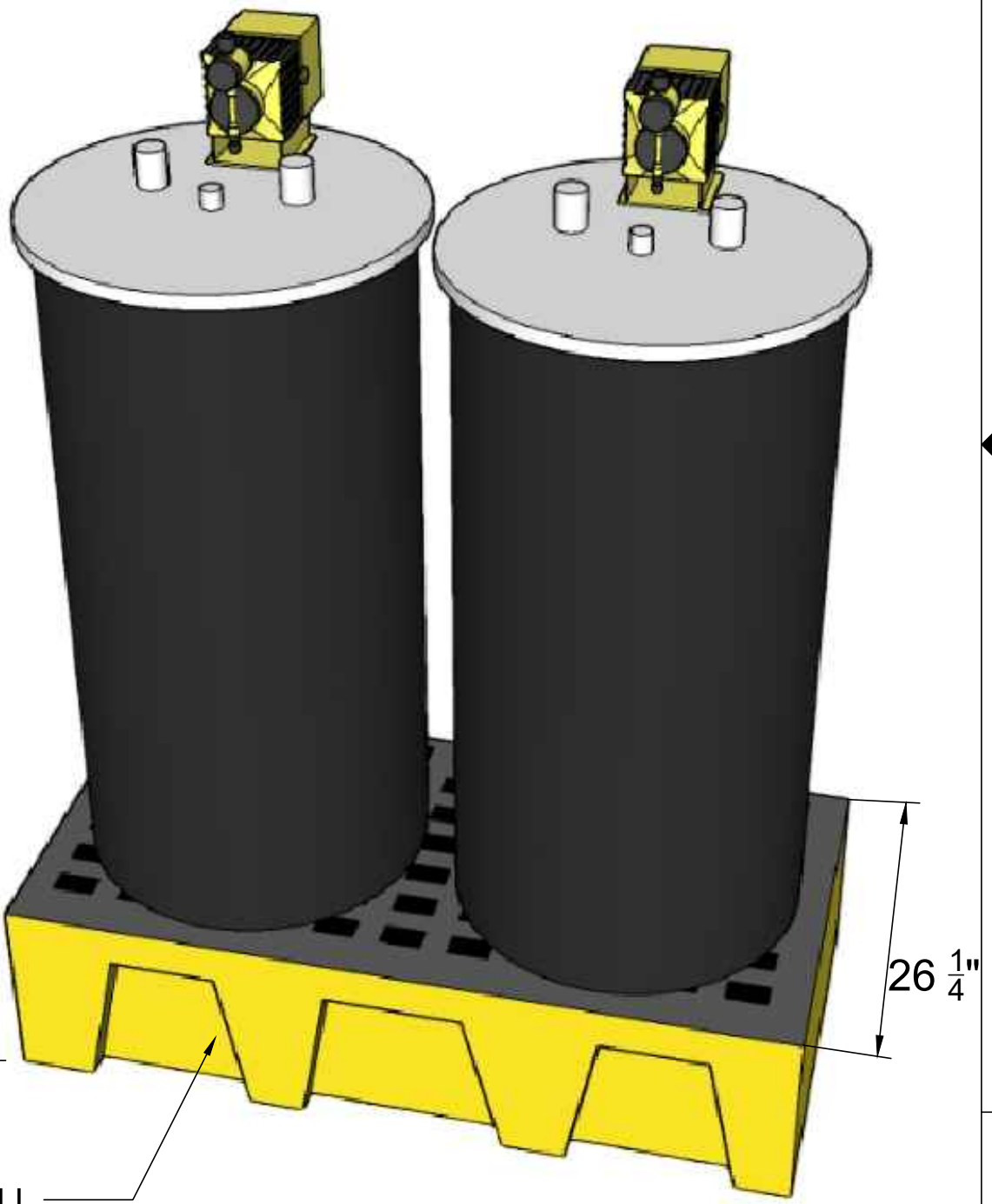
**TC LMI B-111 CHEMICAL FEED PUMPS INSTALLED ON TANK COVER**



**SKT-2 SPILL CONTAINMENT TANK**



**SKT-2 SPILL CONTAINMENT TANK**



WELDED BY:	UNLESS STATED OTHERWISE DIMENSIONS ARE IN INCHES	MATERIAL:	HDPE			TITLE:	NTD SERIES	REV:	 WWW.TANDCPLASTICS.COM 732-780-5300
COMPLETED BY:		WEIGHT [lb]:	DRAWN	DR	DATE	SHEET 1 OF 1	SIZE:		
REVIEWED BY:		DO NOT SCALE DRAWING	CHECKED			SCALE: 1:2			

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A

**Electronic Metering Pumps**

**Configuration Data**

Model **B-11** **1** - **498SI**

**Control & Output Code with Standard Liquid End**

**Manual Control**

Speed (stroking frequency) and stroke length manually adjustable.

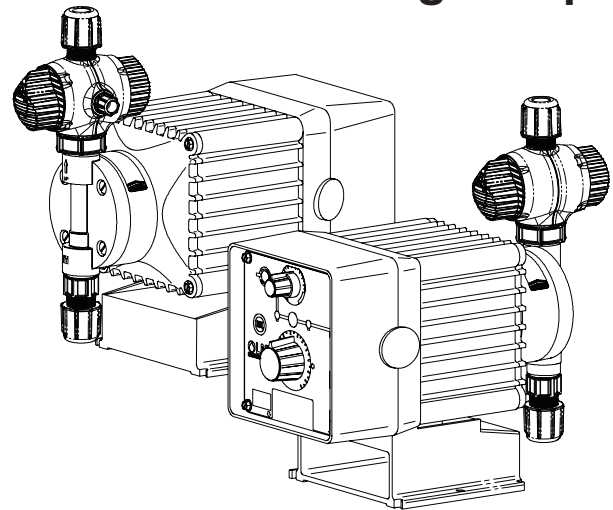
B11	--	1.6 GPH	(6.1 l/h)	--	150 psi	(10.30 Bar)
B12	--	2.5 GPH	(9.5 l/h)	--	100 psi	(6.90 Bar)
B13	--	4.5 GPH	(17.0 l/h)	--	50 psi	(3.4 Bar)
B14	--	7.0 GPH	(26.5 l/h)	--	30 psi	(2.07 Bar)

**Voltage Code**

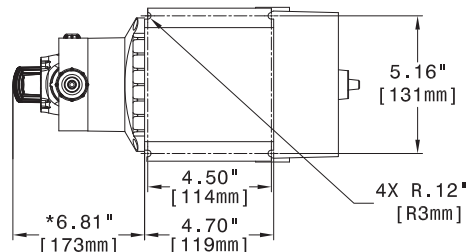
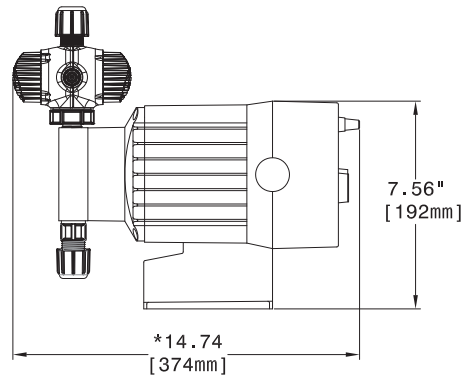
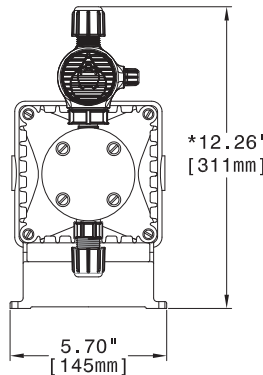
- 1 ----- 120 VAC, US Plug
- 2 ----- 240 VAC, US Plug
- 3 ----- 220-240 VAC, DIN Plug
- 5 ----- 240-250 VAC, UK Plug
- 6 ----- 240-250 VAC, AUST/NZ Plug
- 7 ----- 220-240 VAC, SWISS Plug

**Liquid End**

See next page for complete liquid end specifications and selection.



**Dimensions**



\*Dimensions shown are maximum for largest available Liquid End.

Dimensions will vary depending on Liquid End selected.

**Specifications**

Series	Strokes Per Minute (Adjustable)		Stroke Length (Adjustable) Recommended Minimum	Average Input Power @ Max Speed	Shipping Weight
	Min	Max			
B11, B71, B91	1	100	10%	29 watts	15 lbs (6.9 kg)



201 Ivyland Road  
Ivyland, PA 18974 USA  
TEL: (215) 293-0401  
FAX: (215) 293-0445  
<http://www.lmipumps.com>

## VERY IMPORTANT — PLEASE READ

The LMI Tubing Connection System provides a reliable system to connect your pump to corresponding tubing sizes. To assemble tubing onto the fitting:

1. Insert tubing through Coupling Nut—Tubing should enter the smaller end of the Coupling Nut first, orienting the larger opening of the Coupling Nut toward the tubing end.
- 2a. For 1/4" OD tubing: Position the Female Ferrule so that 1/4" to 3/8" (5-10 mm) of tubing protrudes from the Female Ferrule. Orient the raised collar of the Ferrule toward the Coupling Nut (reference FIGURE 1).
- 2b. For 3/8" or 1/2" OD tubing: Position a Female Ferrule about one inch (25 mm) from end of tubing. Orient the raised collar of the Female Ferrule toward the Coupling Nut. Then, insert the Male Ferrule onto the end of the tube, pushing the tube into the bottom of the groove in the Male Ferrule. Then slide the Female Ferrule down the tubing and with your fingers, press tightly into the Male Ferrule (reference FIGURE 2).
3. Firmly hand tighten the Coupling Nut onto the fitting. Note: Tightening with pliers may cause the Ferrules to break.

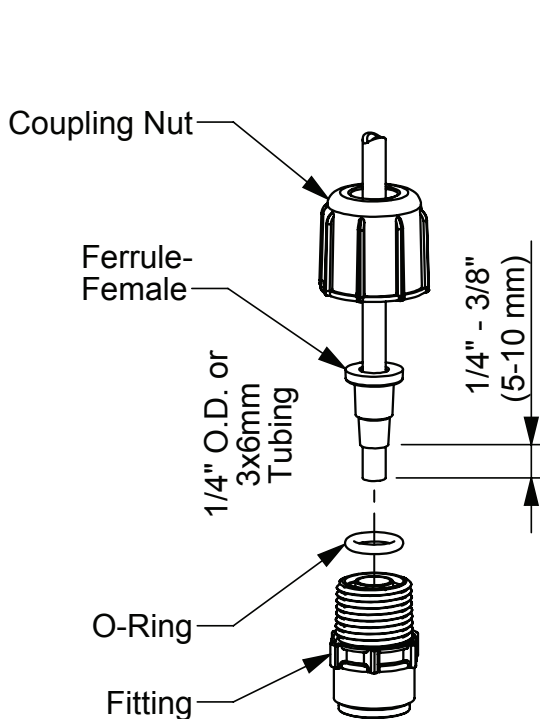


FIGURE 1

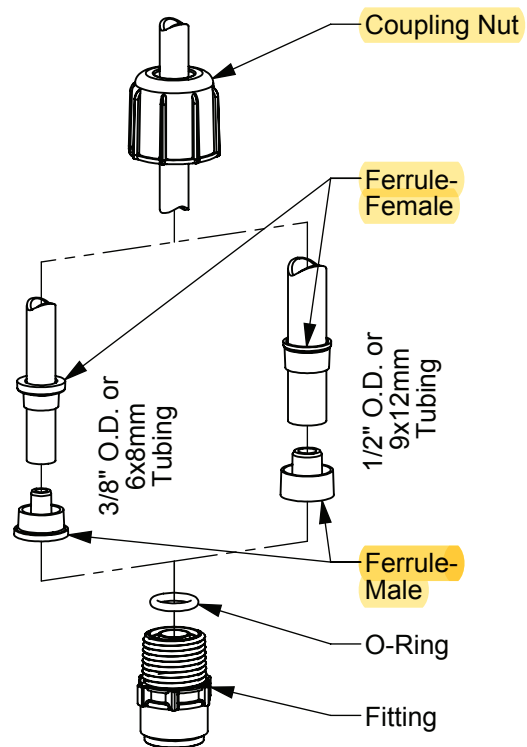
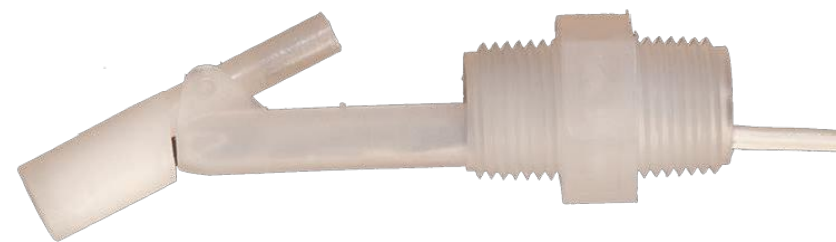


FIGURE 2

# Model # pp-24t Horizontal Level Float

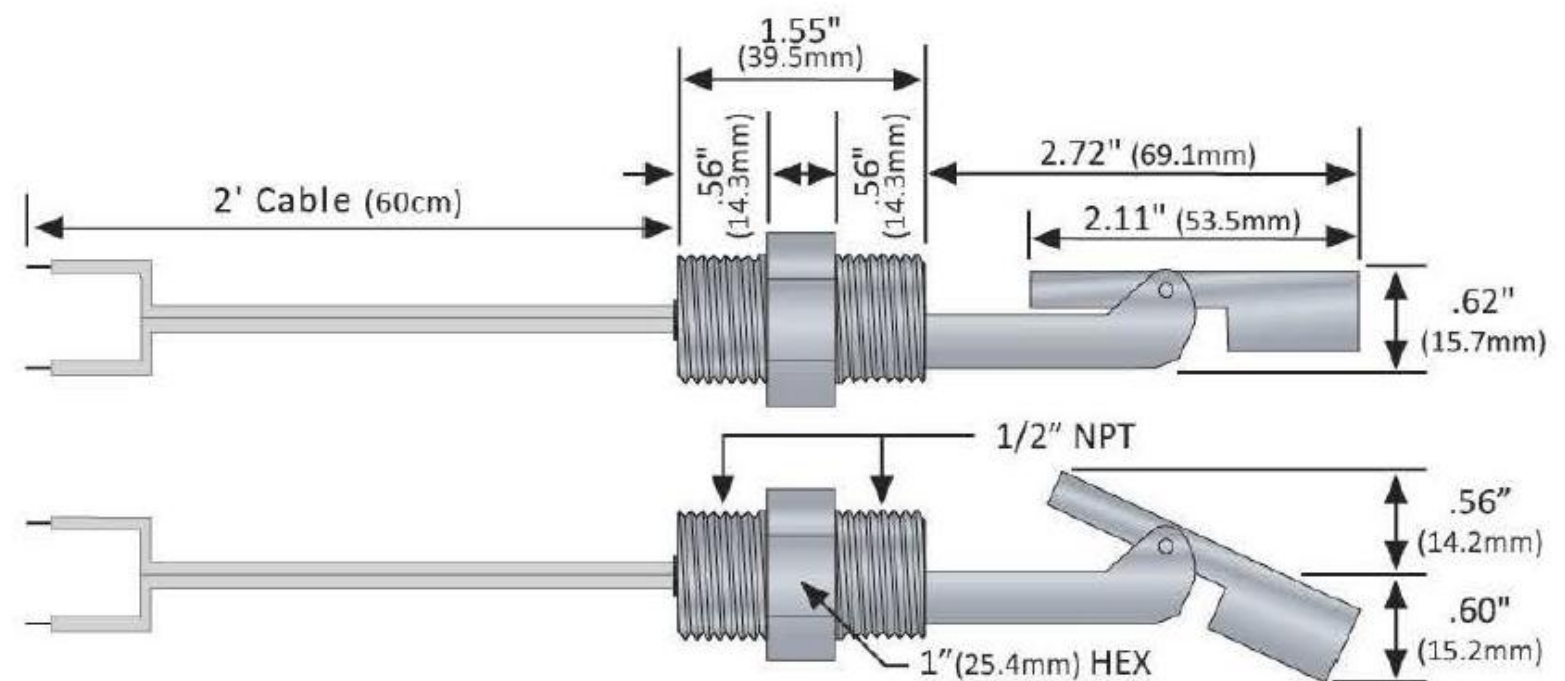
## Application


Offered in vertical and horizontal configurations, the general purpose mini-float level switches provide reliable liquid level detection of clean water and chemical solutions with a 50VA or 30VA reed switch output. Media examples include water and sulfuric acid. The polypropylene or PVDF liquid level sensors are mounted vertically inside the tank or horizontally through the tank wall as a high level alarm or low level alarm.



## Specifications

<b>Orientation:</b>	LV20: ± 20° vertical
	LH25: ± 20° vertical
<b>Accuracy:</b>	± 5mm in water
<b>Repeatability:</b>	± 2mm in water
<b>Specific gravity:</b>	LV20: 0.8 minimum
	LH25: 0.6 minimum
<b>Contact type:</b>	(1) SPDT reed
<b>Contact rating:</b>	LV20: 120VAC/VDC @50 VA
	LH25: 120VAC/VDC @50 VA
<b>Contact output:</b>	Selectable NO / NC
<b>Process temp.:</b>	LV20: F: -40° to 176°
	C: -40° to 80°
	LH25: F: -40° to 221°
	C: -40° to 105°
<b>Pressure range:</b>	LV20: 10 psi (0.7 bar)
	LH25: 100 psi (6.9 bar)
<b>Sensor rating:</b>	NEMA 6 (IP68)
<b>Sensor material:</b>	
<b>Wire type:</b>	2-conductor, 22-gauge
<b>Wire length:</b>	2' (61cm)
<b>Process mount:</b>	LV20: 1/8" NPT (1/8" R)
	LH25: 1/2" NPT
<b>Classification:</b>	General purpose
<b>Compliance:</b>	CE



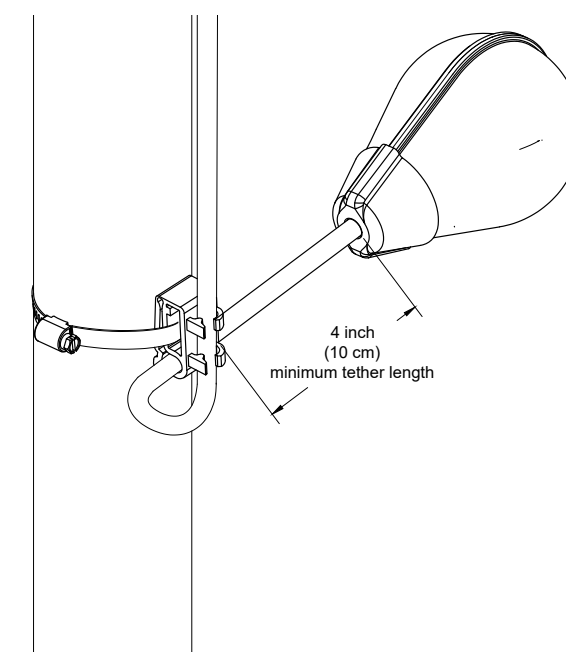
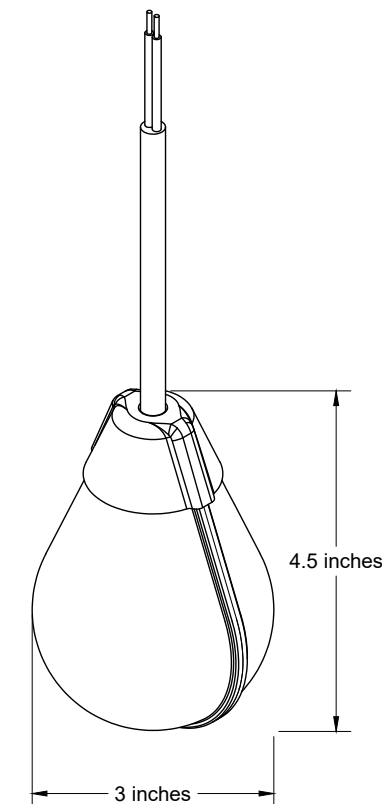
UNLESS STATED OTHERWISE DIMENSIONS ARE IN INCHES	MATERIAL: <b>Polypropylene</b>			TITLE: <b>MODEL PP-24T</b>	REV:	SHEET 1 OF 1	SCALE: 1:2	SIZE:	 WWW.TANDCPLASTICS.COM 732-780-5300
	WEIGHT [lb]:	NAME	DATE						
	DO NOT SCALE DRAWING	DRAWN	DR 11/09/2022						
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## pp-44t Level Float Control Switch

The pp-44t control switch is a narrow angle or wide angle control switch that is used to monitor liquid levels in wastewater and sewage applications.

Model	Type	Cord Length	Angle
44-20	Normally Open	20'	Narrow
44-30	Normally Open	30'	Narrow
44-50	Normally Open	50'	Narrow
44-100	Normally Open	100'	Narrow

Model	Type	Cord Length	Angle
44-20-C	Normally Closed	20'	Narrow
44-30-C	Normally Closed	30'	Narrow
44-50-C	Normally Closed	50'	Narrow
44-100-C	Normally Closed	100'	Narrow



### Specifications

#### Electrical Requirements

- 5 amps; 125VAC/250VAC, 50/60 Hz

#### Cable Type

- Flexible 18 gauge, 2 conductor (UL, CSA) SJOW

#### Float Description

- 2 7/8" diameter, 4 1/2" long, high impact, corrosion resistant, polypropylene housing for use in sewage and water up to 140°F (60°C)

#### Maximum Water Depth

- 30' (9 meters), 13 PSI (90 kPa)

UNLESS STATED OTHERWISE DIMENSIONS ARE IN INCHES	MATERIAL: Polypropylene			TITLE: <b>pp-44t Level Float</b>	REV:	<b>T&amp;C PLASTICS</b> WWW.TANDCPLASTICS.COM 732-780-5300	
	WEIGHT [lb]:	NAME	DATE		SHEET 1 OF 1		SIZE:
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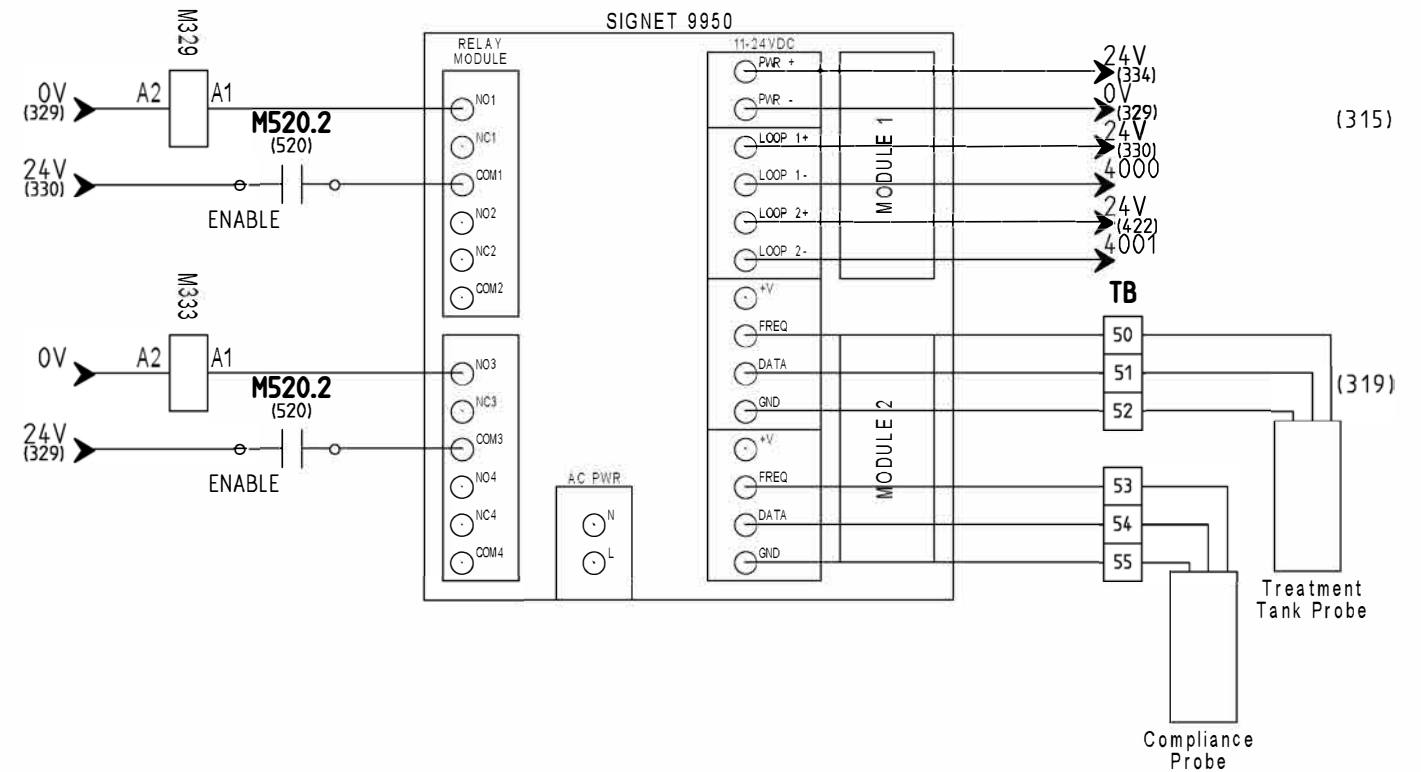
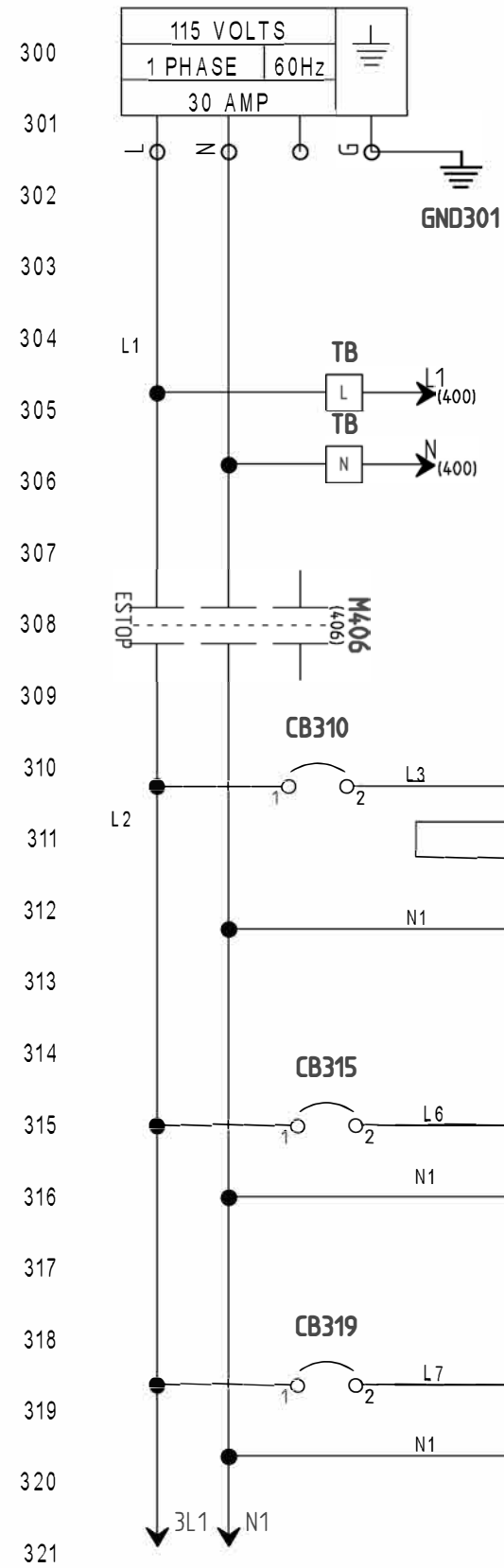


**Project:** T&C Single Tank pH Controller ON\_OFF

**Model#** PHCP-2000 ON\_OFF

**Document No:** -



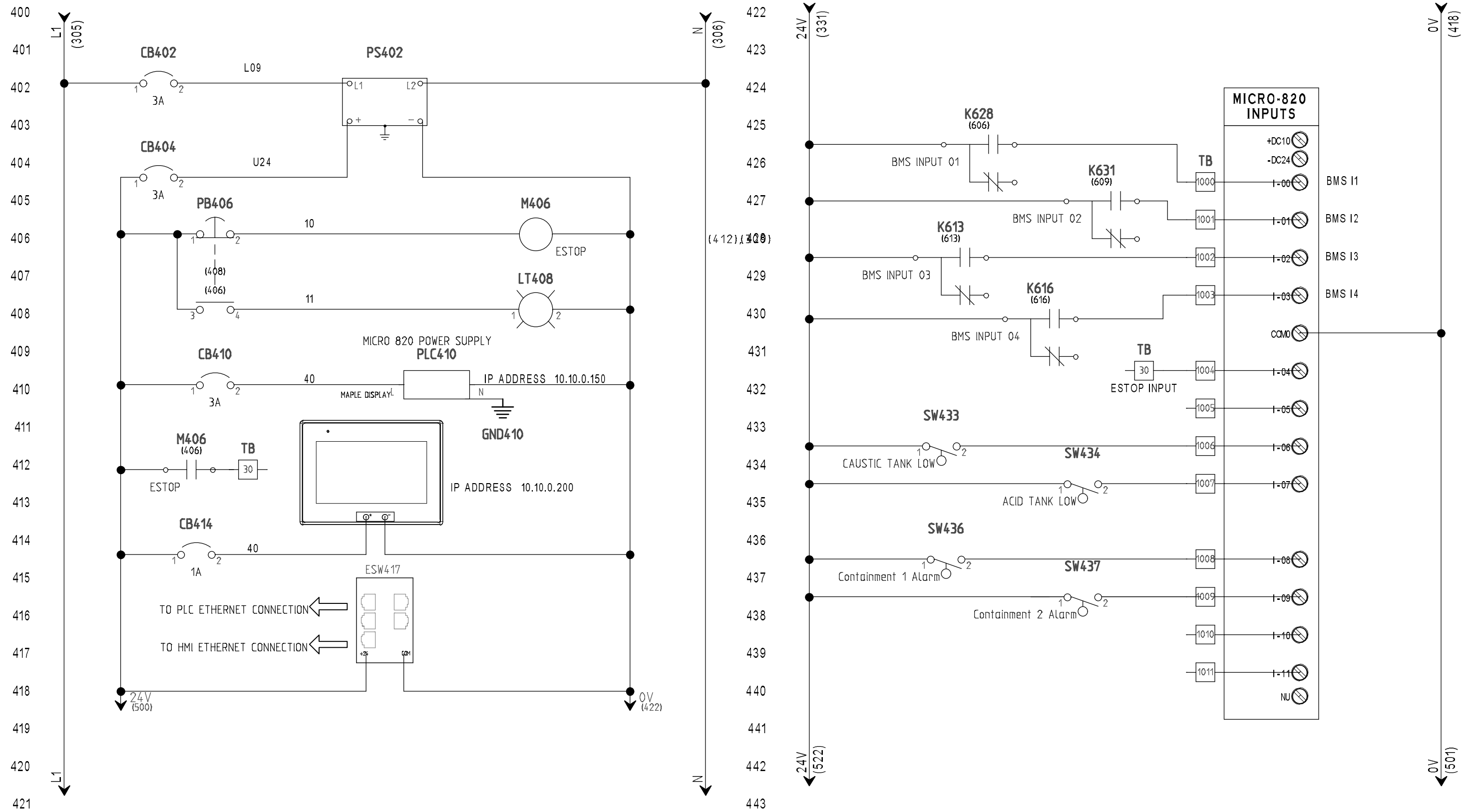


Modifications Since Previous Revision	
Modification #1	
Modification #2	
Modification #3	

### T&C Single Tank pH Controller ON\_OFF

Main Power/ Valve Power

Document Number: 122121_TC	Sheet: 3 of 6	Rev. Date: 10/11/2022 10:04:35 AM	Rev.:
T&C Town & Country Plastics, LLC 10 - B Timber Lane Marlboro, NJ 07746		Cre. Date: 12/17/2018	1
Sheet Created by:			M Vinciguerra



Modifications Since Previous Revision	
Modification #1	
Modification #2	
Modification #3	

## T&C Single Tank pH Controller ON\_OFF

DC Power/Estop Safety Relay

Document Number:  
**122121\_TC**

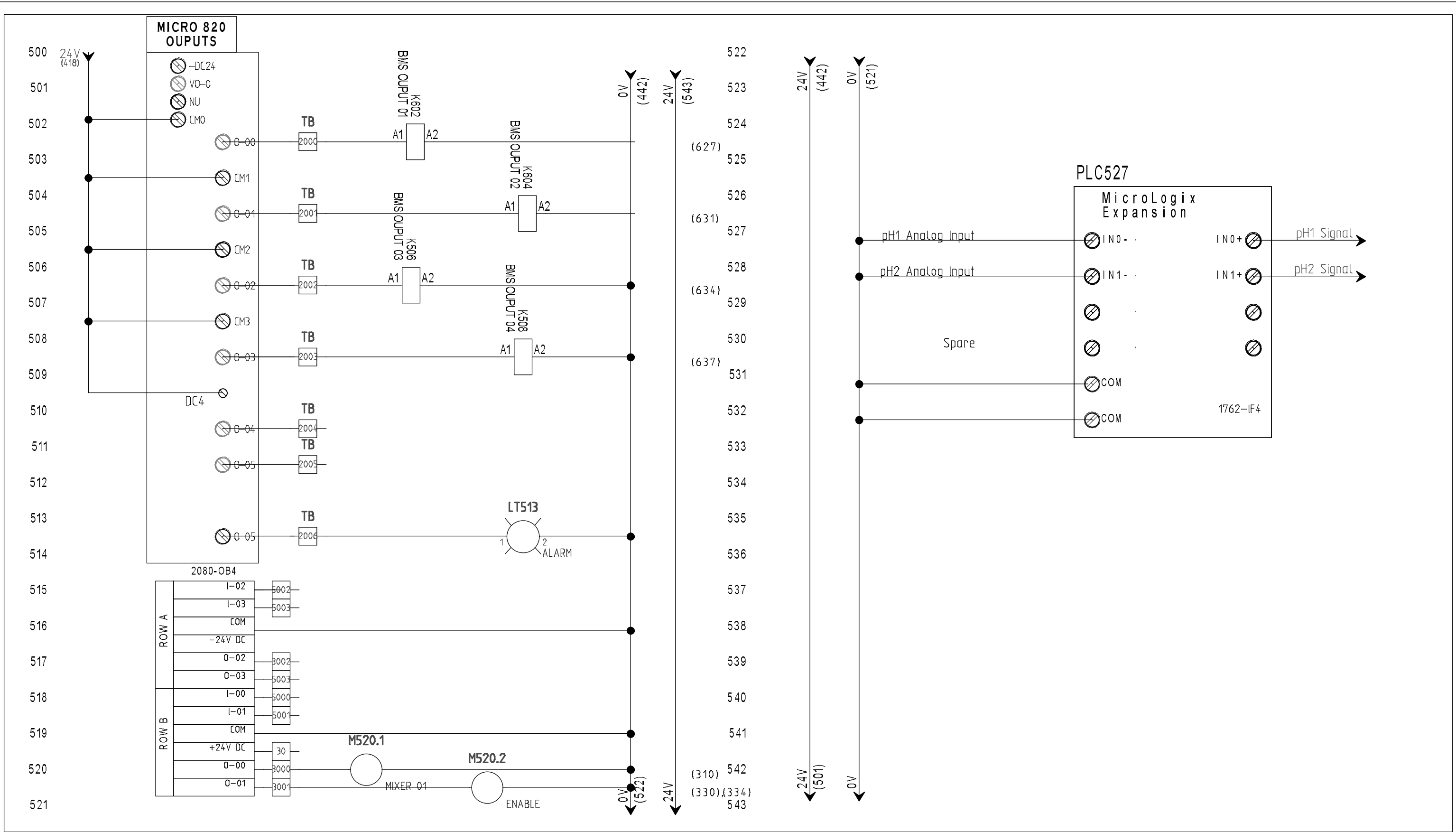
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**4 of 6**

Rev. Date: 10/11/2022 10:04:35 AM  
Cre. Date: 12/17/2018

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**1**

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Marlboro, NJ 07746

Sheet Created by:  
**M Vinciguerra**



Modifications Since Previous Revision	
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Modification #2	
Modification #3	

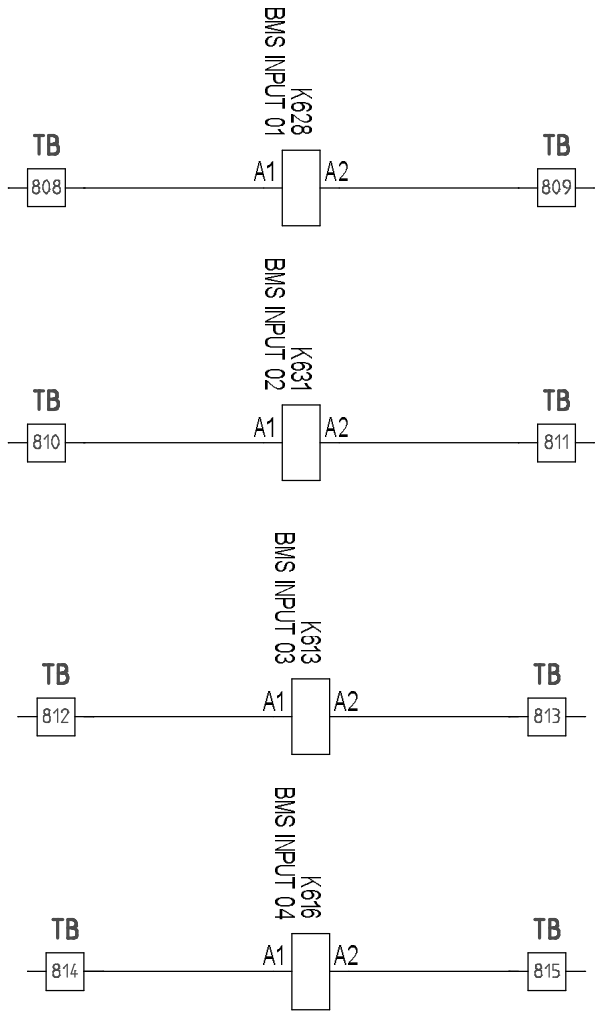
## T&C Single Tank pH Controller ON\_OFF

### PLC Input/Output

Document Number: <b>122121_TC</b>	Sheet: <b>5 of 6</b>	Rev. Date: 10/11/2022 10:04:35 AM	Rev.: 1
<b>T&amp;C</b> Town & Country Plastics, LLC 10 - B Timber Lane Marlboro, NJ 07746		Cre. Date: 4/4/2019	Sheet Created by: <b>M Vinciguerra</b>

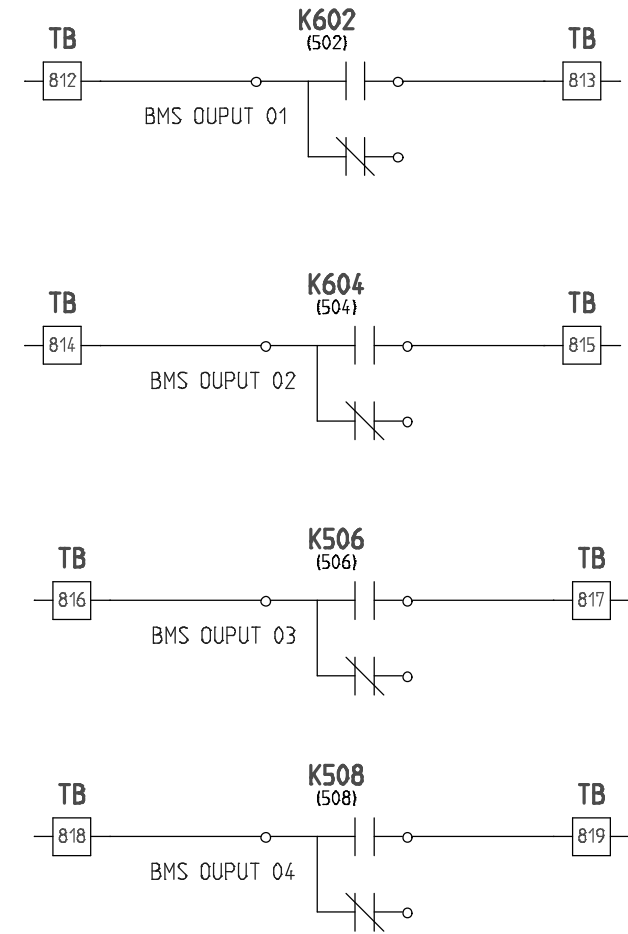
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### BMS DRY CONTACTS



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### BMS DRY CONTACTS



Modifications Since Previous Revision	
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Modification #2	
Modification #3	

## T&C Single Tank pH Controller ON\_OFF

### BMS DRY CONTACTS

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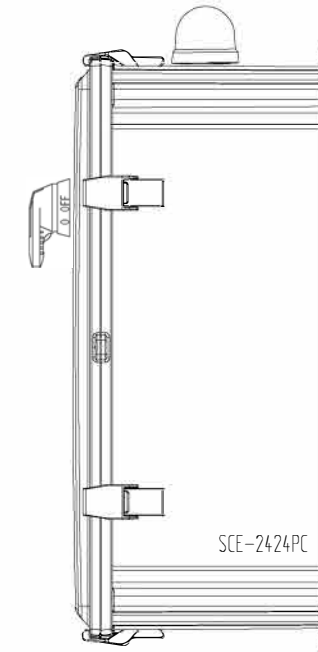
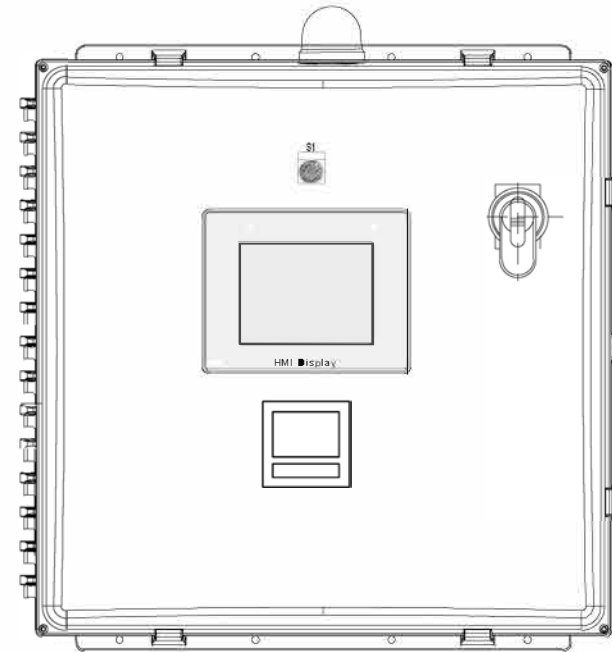
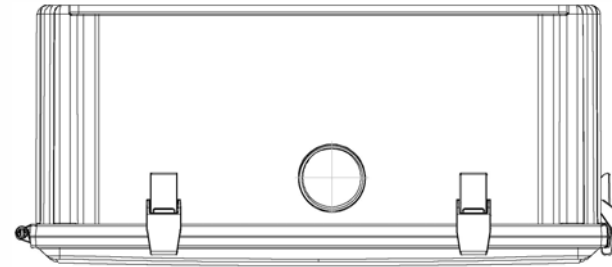
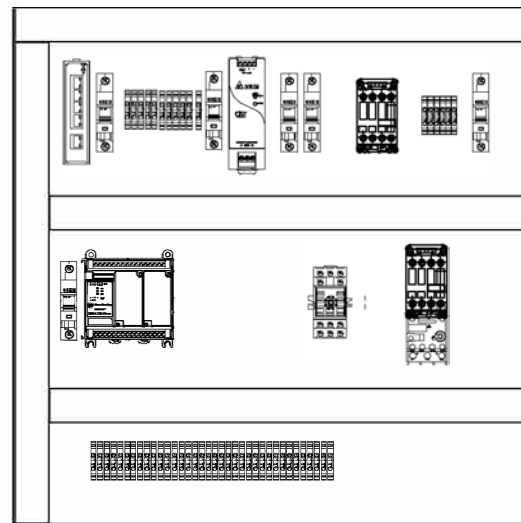
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Modifications Since Previous Revision	
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Modification #2	
Modification #3	

## T&C Single Tank pH Controller ON\_OFF Enclosure Layout

Document Number: <b>122121_TC</b>	Sheet: <b>2 of 6</b>	Rev. Date: <b>6/28/2022 2:03:56 PM</b>	Rev.:
<b>Town &amp; Country Plastics, LLC</b> 10 - B Timber Lane Marlboro, NJ 07746		Cre. Date: <b>12/17/2018</b>	
		Sheet Created by: <b>M Vinciguerra</b>	

## GF 2724-2726 pH/ORP Electrodes

### General Purpose

Compatible with ALL GF pH/ORP instruments and SmartPro transmitters



The 2724-2726 pH and ORP electrodes are general purpose sensors ideal for a wide range of applications. These feature a patented reference design and uses the unique foul-proof patented DryLoc® connector. The large area PE reference junction and pathway is constructed to increase the total reference effectiveness and ensures long service life.

The DryLoc® connector with corrosion resistant gold plated contacts readily connects the sensor to the mating 2751 pH/ORP Smart Sensor Electronics or the 2760 Preamplifier. The robust PPS threaded sensor body and choice of flat pH, bulb pH, or flat ORP sensing elements allows a broad range of chemical and mechanical compatibility for a wide variety of applications.

There are two optional pH sensing versions available, HF and LC. The HF version is for applications where traces of hydrofluoric acid (2% or less) will attack standard pH glass. The LC version can be used for low conductivity fluids 20 - 100  $\mu\text{S}/\text{cm}$  nominal and below 20  $\mu\text{S}/\text{cm}$  when mounted under controlled conditions.

The quick temperature response is available in either a Pt1000 or 3 K $\Omega$  temperature sensor and allows compatibility with all pH/ORP instruments. The 2724-2726 electrodes incorporate  $\frac{3}{4}$  inch NPT or ISO 7/1-R 3/4 threads for installing into GF standard pipe-tees. They can also be mounted directly into standard fittings, DN15 to DN100 ( $\frac{1}{2}$  to 4 inch).

## Features

- Patented reference design for exceptional performance and prolonged life in harsh environments\*
- Memory chip enabled for access to a wide range of unique features when connected to the 2751 pH/ORP Smart Sensor Electronics
- PPS body for broad range of chemical compatibility
- Patented DryLoc® connector with gold plated contacts
- Special design allows for installation at any angle, even inverted or horizontal
- $\frac{3}{4}$ " NPT or ISO 7/1-R 3/4 threaded sensors for use with reducing tees DN15 to DN100 ( $\frac{1}{2}$  to 4 in.)
- Mounts in GF standard fittings from DN15 to DN100 ( $\frac{1}{2}$  to 4 in.)
- Quick temperature response
- Bulb and flat HF resistant glass available for trace HF, in less than 2% concentration applications
- Low conductivity sensor available for liquids down to 20  $\mu\text{S}/\text{cm}$



## Applications

- Water & Wastewater Treatment
- Neutralization Systems
- Effluent Monitoring
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems
- Process Control
- Cooling Towers

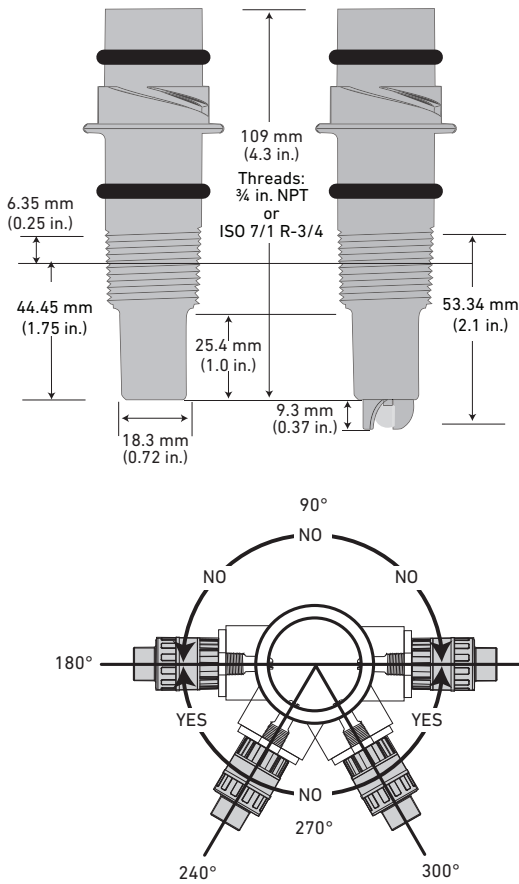
\*U.S. Patent Nos.: 6,666,701, 7,799,193 B2, 7,867,371 B2 and 8,211,282 B2

# Specifications

General			
Performance	Efficiency	>97% @ 25 °C (77 ° F)	
Operating Range	pH	0 to 14 pH	
	ORP	±2000 mV	
	3-2726-LC	Low conductivity fluids; 20 - 100 µS/cm nominal < 20 µS; flow must be less than 150 ml/min in a properly grounded system	
	3-2724-HF, 3-2726-HF	Hydrofluoric acid resistant glass, pH 6 or below; trace HF ≤2%	
Compatibility			
	2751 Smart Sensor Electronics (for 8900, 9900, 9950, 4 to 20 mA or Profibus Concentrator), 2760 Preamplifier		
Temperature Sensor			
	Pt1000 versions	Compatible with 2751 pH/ORP Smart Sensor Electronics for connection to a PLC or to the 8900, 9900 or 9950 instruments	
	3 KΩ Balco versions	Compatible with 2751 pH/ORP Smart Sensor Electronics or with 2760 pH/ORP Preamplifier for connection to the 8750 pH/ORP Transmitter	
Process Connection			
	¾ in. NPT	ISO 7/1-R 3/4	Mounts into fittings
Wetted Materials			
	pH	PPS, glass, UHMW PE, FKM	
	ORP	PPS, glass, UHMW PE, FKM, Platinum	
Max. Temperature/Pressure Rating			
Operating Temperature Range*	bulb tip design	0 °C to 85 °C	32 °F to 185 °F
	flat tip design	10 °C to 85 °C	50 °F to 185 °F
Operating Pressure Range		6.8 bar @ 0 to 65 °C (100 psi @ 32 to 150 °F)	
		4 bar @ 65 to 85 °C (58 psi @ 150 to 185 °F)	
*Best performance for 2724-HF, 2726-HF sensors is above 10 °C (50 °F)			
Recommended Storage Temperature			
		0 °C to 50 °C	32 °F to 122 °F
The electrode glass will shatter if shipped or stored at temperature below 0 °C (32 °F)			
The performance life of the electrode will shorten if stored at temperatures above 50 °C (122 °F)			
Mounting			
In-line Mounting	Use the sensor threads		
	Use a standard fitting up to 4 in.		
	Sensor can be mounted at any angle		
Submersible Mounting	Use threads on models 2751 or 2760		
	Requires ¾ inch NPT or ISO 7/1-R 3/4 male threaded liquid tight extension conduit.		
Shipping Weight			
	0.25 kg	0.55 lb	
Standards and Approvals			
	RoHS compliant, China RoHS		
	Manufactured under ISO 9001, ISO 14001 and ISO 45001		

See Temperature and Pressure graphs for more information

# Dimensions

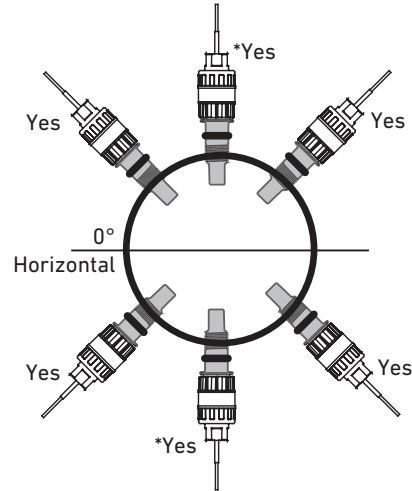


## Mounting Angle

Models 2724-2726 may be mounted at any angle without affecting the performance.

\*Avoid locations with air pockets and sediment

When mounting in standard threaded fittings the electrode must be mounted horizontally to 60 degrees below horizontal position only.



# System Overview

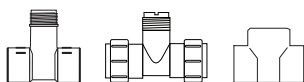
Panel Mount	Pipe, Tank, Wall	4 to 20 mA Output	Automation System
<p>GF Instruments with 2751 Smart Sensor Electronics</p> <ul style="list-style-type: none"> <li>- 8900</li> <li>- 9900</li> <li>- 9950</li> </ul>	<p>GF Instruments with 2751 Smart Sensor Electronics</p> <ul style="list-style-type: none"> <li>- 9900 and Rear Enclosure</li> </ul>	<p>2751 Smart Sensor Electronics with</p> <ul style="list-style-type: none"> <li>- Customer Supplied Chart Recorder or Programmable Logic Controller or Programmable Automation Controller</li> </ul>	<p>2751 Smart Sensor Electronics with</p> <ul style="list-style-type: none"> <li>- 0486 Profibus Concentrator and Customer Supplied Programmable Logic Controller or Programmable Automation Controller</li> </ul>

## GF 2724-2726 DryLoc® pH/ORP Electrodes



All sold separately

In-Line Installation - GF and threaded 1/2 in to 4 in fittings only



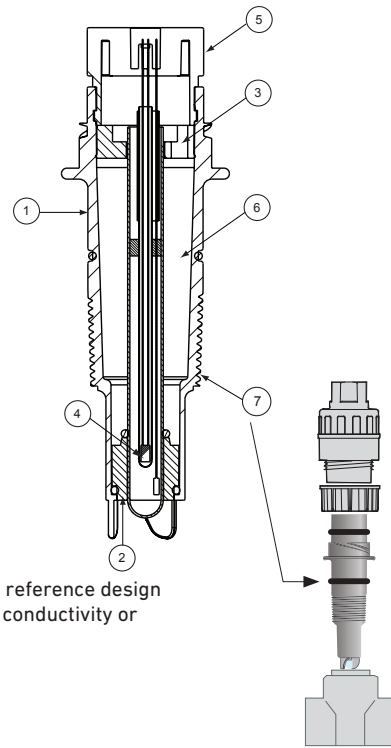
Submersible Installation - Customer supplied pipe extension or conduit with 3/4 in. NPT or ISO 7/1-R 3/4 threads





## Electrode Key Features and Benefits:

1. PPS body for chemical compatibility with most harsh chemicals.
2. Porous UHMW PE (ultra high molecular weight polyethylene) junction resists fouling and build-up.
3. Memory chip enabled for convenient data storage and access (calibration data, operational data, and manufacturing data), electrode health monitoring via glass impedance measurement when used in connection with the 2751 pH/ORP Smart Sensor Electronics.
4. Internal temperature sensor located in the glass stem for a quick temperature response.
5. DryLoc® connector with corrosion resistant gold plated pins for quick and easy sensor removal. Resists moisture and dirt intrusion.
6. Dual-patented reference design with a 406 mm (16 in.) reference pathway for prolonged life in harsh environments. This enables the sensor to last significantly longer than other standard pH/ORP electrodes in most applications.
- 6a. With the patented reference design, the 2726-LC version performs better in low conductivity water between 20 - 100  $\mu\text{S}$  and lasts longer than previous "DI" electrodes.
- 6b. The 2726-LC sensor also performs in applications with extremely low (less than 20  $\mu\text{S}/\text{cm}$ ) conductivity. Special precautions must be taken to avoid measurement complications. Please note the following.
  - Electrostatic charges (streaming potentials) can cause dramatic offsets in a system with very low conductivity water. To minimize this, sensors should be placed in a well grounded system.
  - To enhance performance, a low flow cell is recommended to provide a steady flow rate (150 ml/minute). Sensors placed in high flow applications will experience noisier readings due to streaming potential.
7. Threads for NPT or ISO process connection into reducing tees
  - Use off-the-shelf GF reducing tees DN20 to DN100 ( $\frac{3}{4}$  to 4 in.).
8. Mounts directly into fittings ( $\frac{1}{2}$  to 4 in.) for easy sensor retrofitting.
9. Mount submersed into a tank via the 2751 or 2760 back threads.

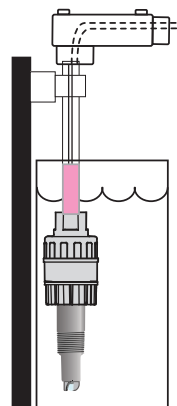


Dual-patented reference design for long life in conductivity or chemicals.

Sensor in threaded reducing tee



⑧ Sensor in fitting



⑨ Sensor submersible installation

# Signet 2760 DryLoc® pH/ORP Preamplifiers



In-line  
2760



Submersible  
2760

DryLoc® Electrodes sold separately.

The Signet 2760 pH/ORP Preamplifiers feature a DryLoc® connector, providing a robust connection to Signet DryLoc electrodes.

The 2760 preamplifier allows DryLoc pH/ORP electrodes to work with Signet ProcessPro® and ProPoint® pH/ORP instruments.

The DryLoc electrode connector system quickly forms a robust assembly for submersible and in-line installations. Optional NEMA 4X junction enclosures extend the preamplifier cable to long distances.

The 2760 submersible preamplifier can also be used as an in-line preamplifier when used with the ¾ in. or 1 in. threaded sensors including the 2724, 2774 and 2764 series electrodes. The 2760 in-line preamplifier can be used with Signet fittings up to DN100 (4 in.) and Wet-Tap assemblies.

The 2760 pH/ORP preamplifiers are compatible with the Signet 8750 and older analog transmitters. The 8900 and 9900 instruments and Profibus Concentrator require the use of the 2751 Smart Sensor Electronics, and are not compatible with the 2760 preamplifier.

## Features

- In-line integral mount and submersible installation versions
- Compatible with pH or ORP sensors
- Patented DryLoc® connector provides a quick and secure connection to the sensor\*



## Applications

- Water/Wastewater Treatment
- Neutralization Systems
- Scrubber Control
- Effluent Monitoring
- Surface Finishing
- Flocculent Coagulation
- Heavy Metal Removal and Recovery
- Toxic Destruction
- Sanitization Systems
- Pool & Spa Control
- Aquatic Animal Life Support Systems

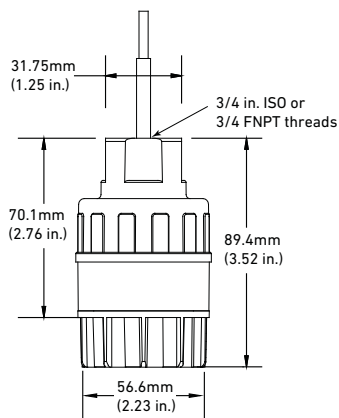
\*U.S. Patent No.: 6,666,701

# Specifications

General			
Compatible Electrodes	Signet DryLoc pH and ORP Electrodes Models 2724-2726, 2756-2757 Wet-Tap, 2764-2767, 2774-2777		
	All pH sensors used with the 2760/8750 must have a 3K Temperature sensor		
Compatible Instruments	8750 and 5700		
Operating Range	pH	0 to 14 pH	
	ORP	±2,000 mV	
Response Time*	pH	< 6 sec. for 95% of change	
	ORP	application dependent	
Materials	In-line	Valox® (PBT)	
	Submersible	CPVC	
Electrical			
Cable	4.6 m (15 ft) supplied, 120 m (400 ft) max		
	6 cond., foil shield with drain wire, 24 AWG		
Max. Temperature/Pressure Rating			
Operating Temperature	Submersible	0 °C to 85 °C	32 °F to 185 °F
	In-line	0 °C to 110 °C	32 °F to 230 °F
Storage Temperature	-20 °C to 85 °C	-4 °F to 185 °F	
Relative Humidity	0 to 95%, non-condensing (without electrode connected)		
Environmental			
Enclosure	Submersible	NEMA 6P/IP68 with electrode and watertight conduit and/or extension pipe connected	
	In-line	NEMA 4 with electrode and watertight conduit and/or extension pipe connected	
Shipping Weight			
	0.64 kg	1.41 lb	
Standards and Approvals			
	CE, FCC		
	RoHS compliant, China RoHS		
	Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management and OHSAS 18001 for Occupational Health and Safety		

## Dimensions

3-2760-1, -2



3-2760-11, -21

