SUBMITTAL

Elite Tank Level



ELITE

Specifications subject to change. Consult website or contact Cougar Systems.

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FEATURES

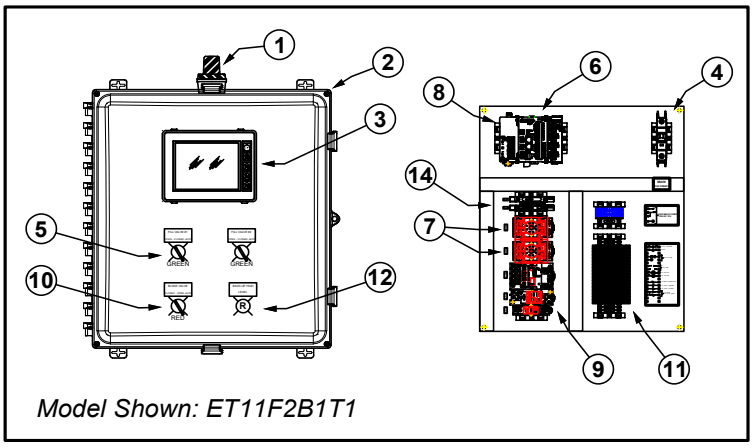
- Type 4X Construction withstands outdoor installations and prevents corrosion
- Lockable hinged front enclosure door
- Conductivity Critical High Level Relay
  - Redundant relay operation protects against PLC or sensor failure system upset.
- Critical High Level alarm Red indicator
- Single Pole Main Disconnect
- Programmable Logic Controller
- Touchscreen HMI Functions
  - Lead Fill Valve Selection
  - Alarm Silence Button
  - “High Level Alarm” Indication
  - “Low Level Alarm” Indication
  - Continues Level Readout, in inches.
  - Level Settings includes:
    - o Level sensor span
    - o Level Read-out offset
    - o Level Display refresh rate
    - o Alarm reset differential
    - o Alarm on-delay timer, seconds (range 0-9999)
    - o High level alarm set point
    - o Low level alarm set point
    - o Fill Valve(s) close
    - o Fill Valve Lead open
    - o Fill Valve Lag open
- Fill Valve 3-position selector switch, Open-Close-Auto with green run indicator
  - 120vac power on
  - Solenoid operation
- Block Valve 3-position selector switch, Close-Open-Auto with red indicator
  - 120vac power to close
  - 120vac power open
  - L1 and Neutral for enclosure Heater
  - Motor Operated Valve
- BAS Dry contact for High Level Alarm
- BAS Dry contact for Low Level Alarm
- Form “C” Dry contact for low level Pump Cut-Off (Domestic only)
- 24 VDC power supply
- 360˚ visible red alarm beacon
- 95db Piezo alarm buzzer
- Internal wiring numbered to corresponding wiring diagram
- Numbered screw type field termination block
- Field wiring diagram and installation instructions included

Specifications subject to change. Consult website or contact Cougar Systems.

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PANEL COMPONENTS

1. Alarm Beacon
2. TYPE 4X Enclosure
3. Touchscreen Display
4. Main Disconnect
5. Fill Valve HOA indicator
6. Programmable Logic Controller
7. Conductivity Relay
8. 24vdc Power Supply
9. Control Relay
10. Block Valve HOA indicator
11. Terminal Strip
12. Back-up High Level indicator
13. Alarm Horn
14. Control Fuse indicator



Model Shown: ET11F2B1T1

Options

- Dead-Front Construction
- BACnet MS/TP interface
- UL508A & UL698A listed

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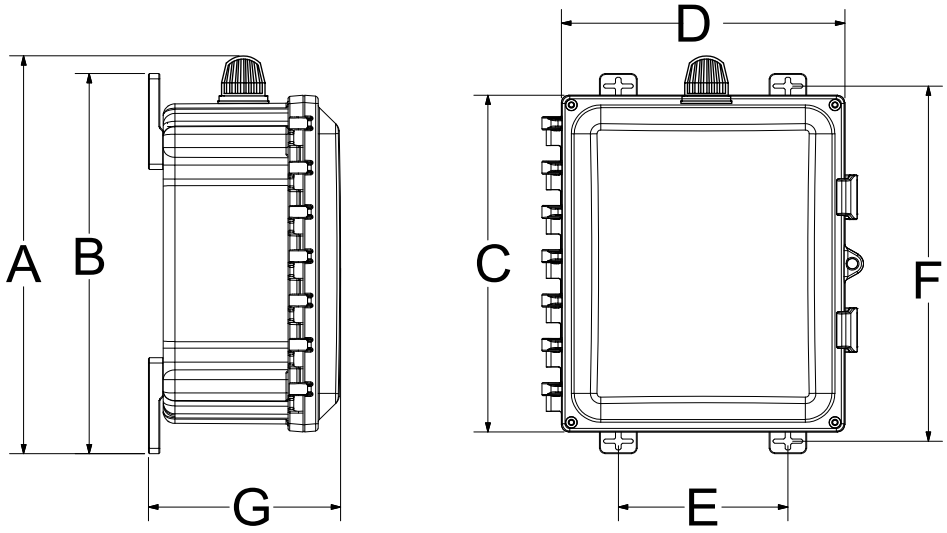
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The Lone Star in Water Control

ENCLOSURE DIMENSIONS

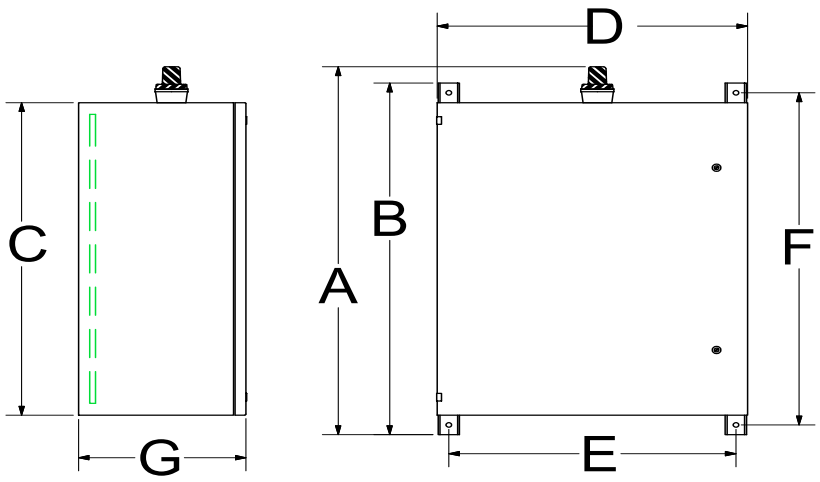
DOMESTIC/FIRE - 18x16x10

A	B	C	D	E	F	G
21.45	20.88	19.41	17.41	13.63	20.03	11.86



COMBINATION DOMESTIS & FIRE -24x20x10

A	B	C	D	E	F	G
28.25	27	24	20	18.5	25.5	10.79



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Panel Details

	Voltage
☑	11 120 1 Phase

	Tank Compartment
☑	T1 Single Tank Compartment
☐	T2 Dual Tank Compartment

	Fill Valves
☐	F0 No Valve
☐	F1 One Valve
☑	F2 Two Valves
☐	F3 Three Valves
☐	F4 Four Valves

	Selection
☑	11 Domestic Tank Level
☐	12 Fire Tank Level
☐	13 Domestic & Fire Tank Level

	Block Valve
☐	B0 No Valve
☑	B1 One Valve
☐	B2 Two Valves
☐	B3 Three Valves
☐	B4 Four Valves

Specifications subject to change. Consult website or contact Cougar Systems.

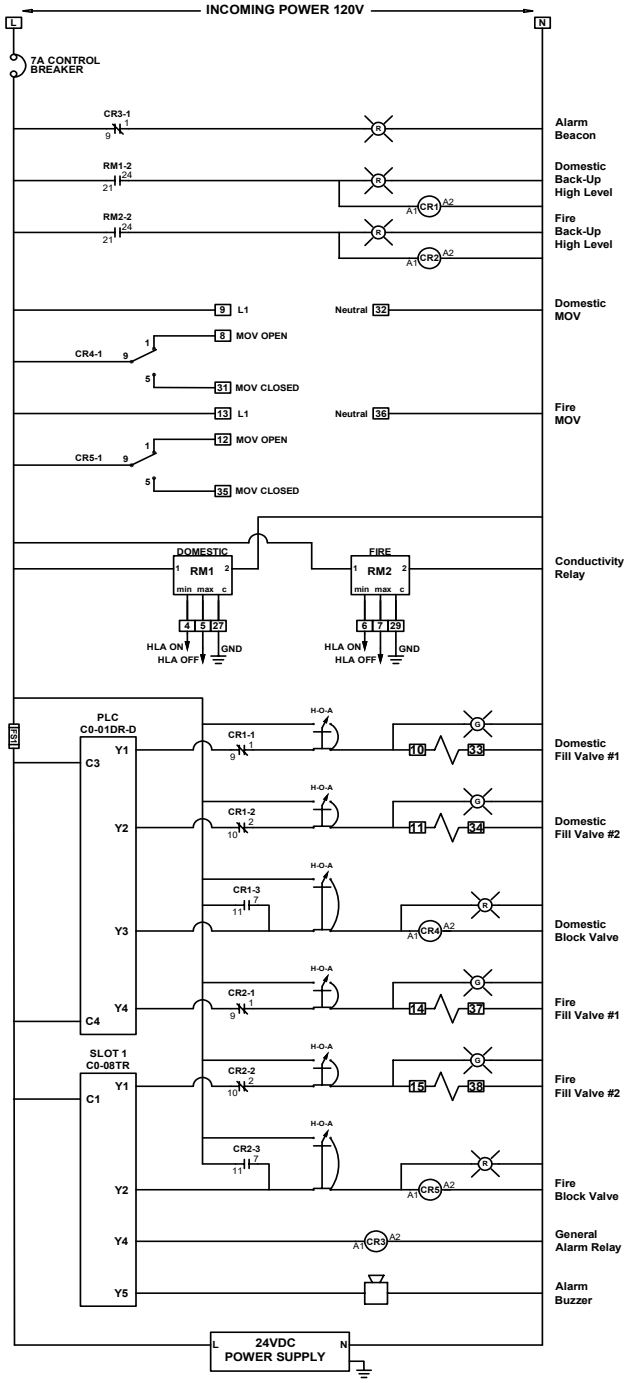
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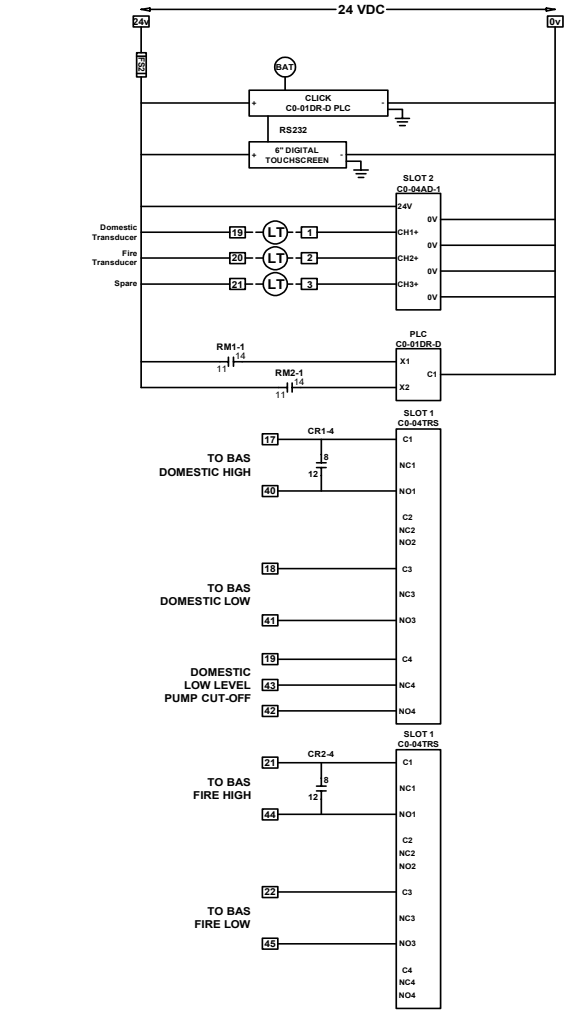
CONTROLS DIAGRAM

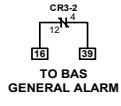
Domestic & Fire

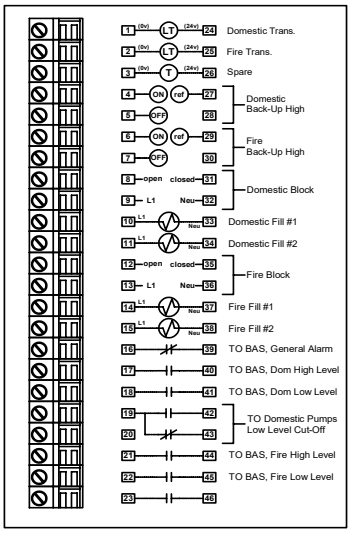
- **Standard Elite PLC Combination Domestic & Fire Tank Level control panel. Configurable Fill Valve options are available. Configurable Block Valve options are available. 120vac, 1 phase Incoming Power supply. Analog sensor level transmitter input.**

- **Example Wiring diagram below is: ET13F4B2T1 (2 Fill Valve, 1 Block Valve per compartment.)**









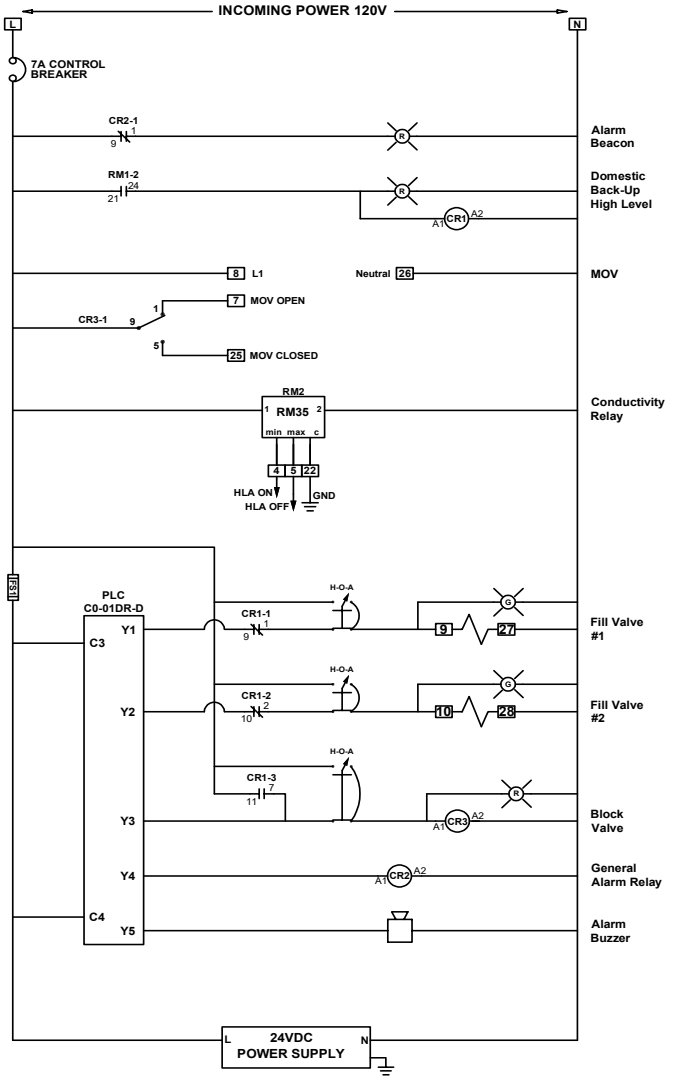
Specifications subject to change. Consult website or contact Cougar Systems.

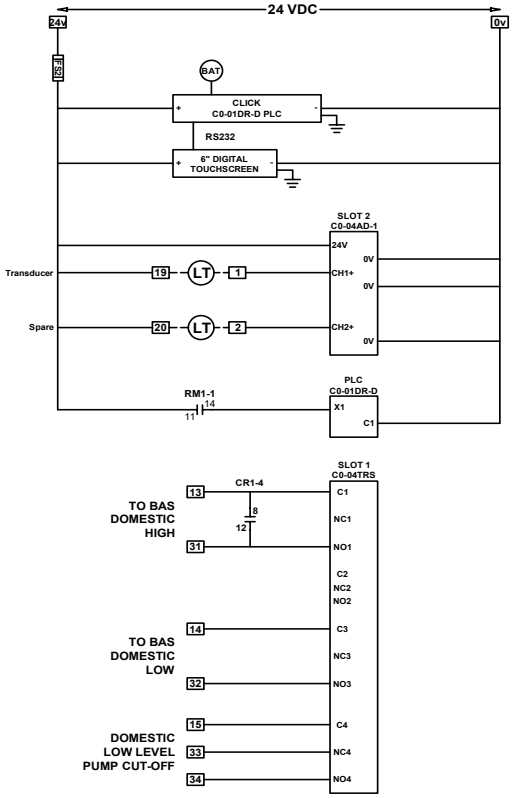
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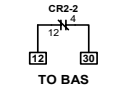
CONTROLS DIAGRAM — Domestic

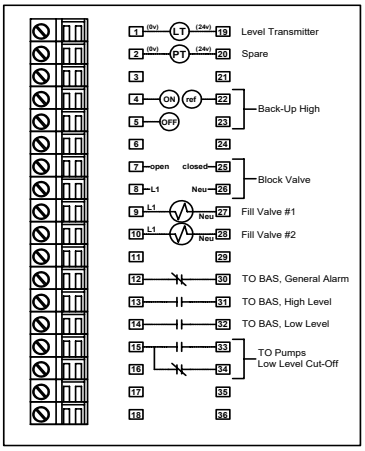
- **Standard Elite PLC Domestic Tank Level control panel. Configurable Fill Valve options are available. Configurable Block Valve options are available. 120vac, 1 phase Incoming Power supply. Analog sensor level transmitter input.**

- **Example Wiring diagram below is: ET11F4B2T1 (2 Fill Valve, 1 Block Valve per compartment.)**









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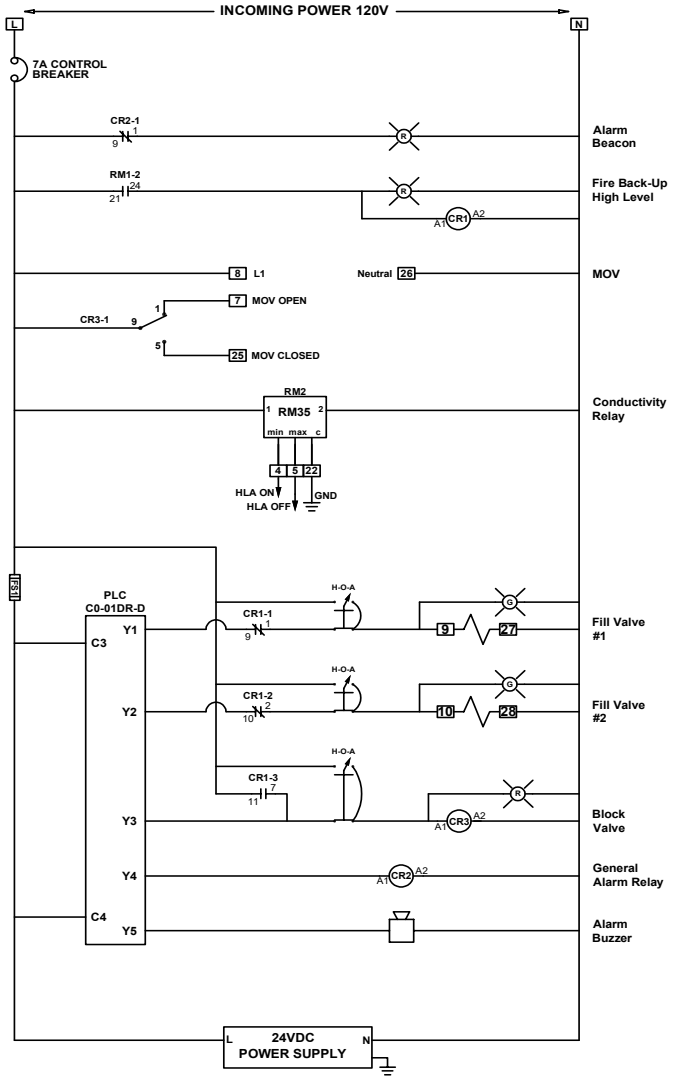
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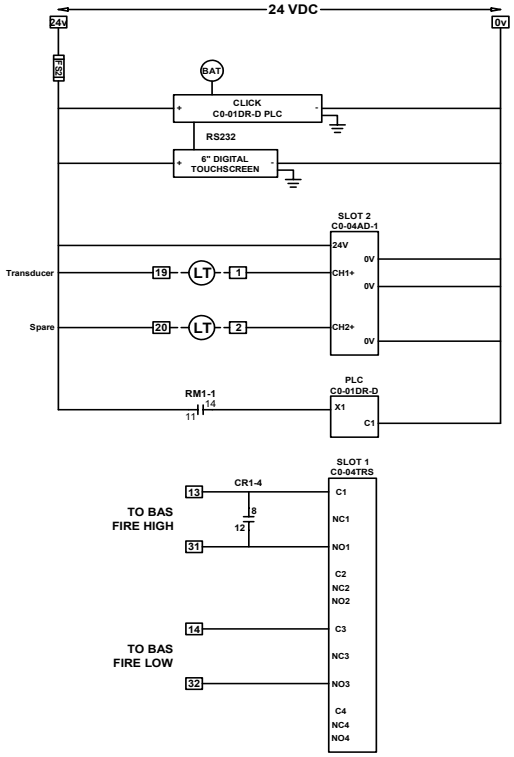
CONTROLS DIAGRAM

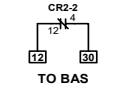
Fire

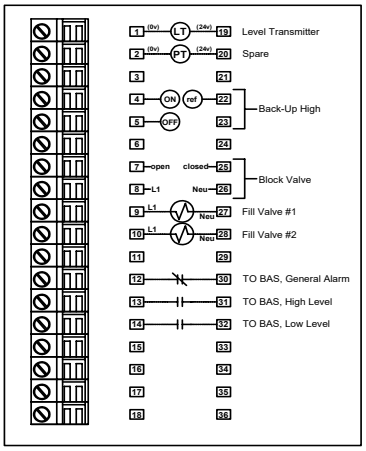
- **Standard Elite PLC Fire Tank Level control panel. Configurable Fill Valve options are available. Configurable Block Valve options are available. 120vac, 1 phase Incoming Power supply. Analog sensor level transmitter input.**

- **Example Wiring diagram below is: ET12F4B2T1 (2 Fill Valve, 1 Block Valve per compartment.)**









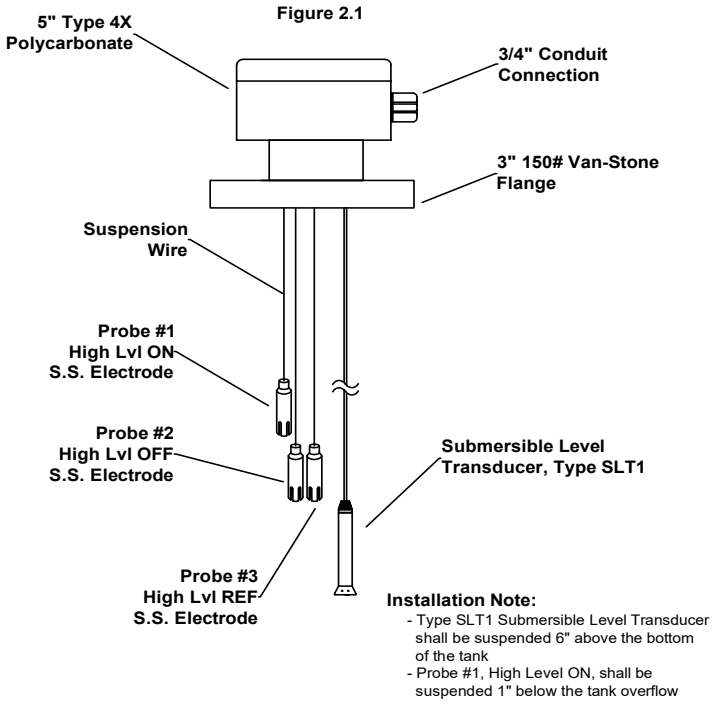
Specifications subject to change. Consult website or contact Cougar Systems.

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SENSOR DETAIL

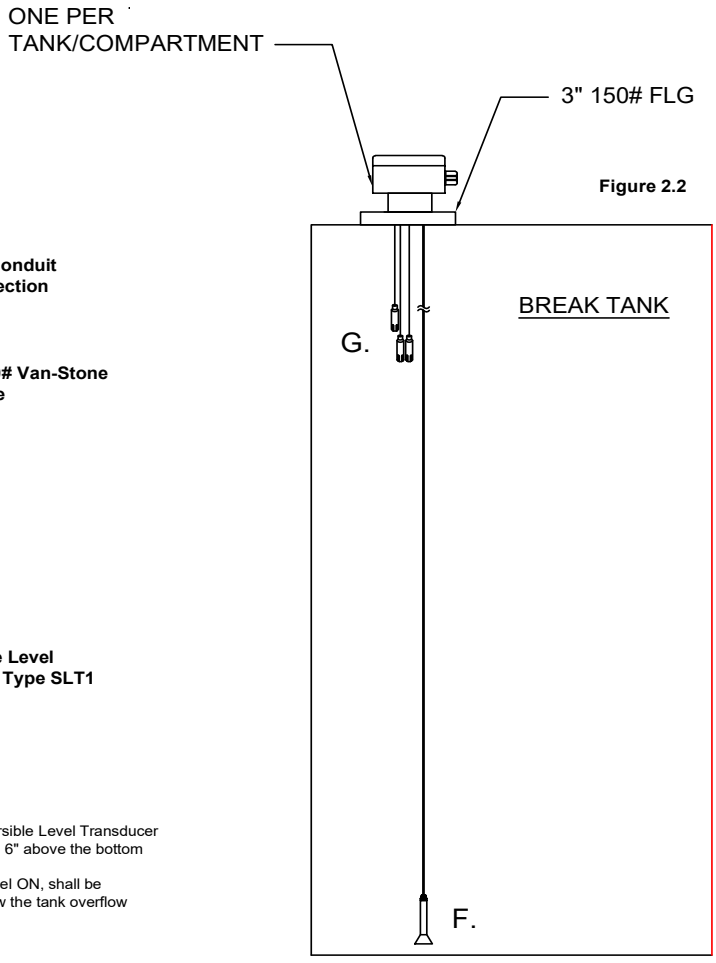
- **Standard Level Sensor Assembly consists of a Type 4X Polycarbonate Junction Box, standard 3" Sch. 80 150# PVC flange, Submersible pressure stainless steel transmitter, and stainless steel wire suspended electrodes. Figure 2.1 shows assembly design in detail.**

Figure 2.1



Installation Note:
- Type SLT1 Submersible Level Transducer shall be suspended 6" above the bottom of the tank
- Probe #1, High Level ON, shall be suspended 1" below the tank overflow

Figure 2.2



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