



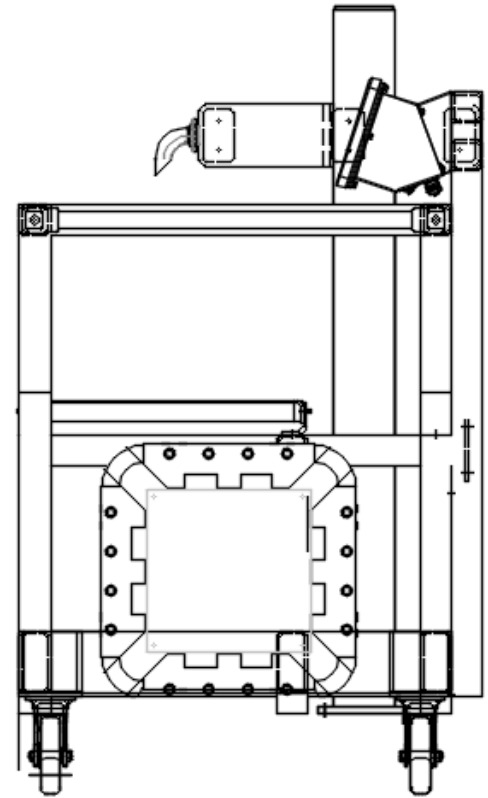
## **MODEL T-1**

The model T-1 is designed to provide accurate, subsurface, liquid filling of 1 gallon bottles and smaller containers. It is available in stationary and portable configurations.

The model T-1 is made up of a robust 304 stainless steel structural construction and 316 stainless steel wetted parts. It incorporates an Allen Bradley PLC and HMI based KSS5069 control system. It has built in safety features to guarantee a safe clean and accurate filling.

### **Standard Features**

- General purpose Non-Hazardous area electrical classification
- KSS5069 controller Hardware
  - Allen Bradley Micrologix PLC with Ethernet IP
  - Allen Bradley PanelView-Plus Graphical user interface with Ethernet IP
  - 24V DC controls
- Software
  - User friendly menu driven system
  - Recipe programming and saving of all fill set points
  - Slow-Fast-Slow fill mode programming
  - Automatic Preact calculation
  - Resume capability to continue filling aborted fill cycles
  - No Container No fill feature to prevent product spillage
  - Flow rate monitoring
  - Cycle time monitoring
  - Net weight Over/Under fill monitoring
  - System Alarm display plus historian
  - Weight indicator control, Zero, Tare, Gross/Net
  - See UFS1400 controller manual for full standard features
- Two ball valve system for Slow-Fast-Slow fill modes
- Hand operated lever for Fill Start/Stop operation



### **Standard Construction**

- 304 stainless steel structural construction
- 316 stainless steel wetted parts (Lance and pipe).
- Dual 316 stainless steel ball valves
- Gravity weighed stainless steel drip cup
- Fume collection hood with sight glass and 2" hose connection
- Teflon seals and seats
- Sealed bearings and cam followers
- Stainless steel low profile scale base
  - Raised Platform
  - Sealed load cells
  - 1 part in 5,000 resolution (100 Lb X 0.02 LB)
  - 100 LB capacity

## Available Options

1. Electrical area classification Options
  - Class-I Division-I area package
  - Class-I Division-II area package
2. Controller Options
  - Upgrade to larger size PanelView-Plus
3. Environmental area Options
  - Corrosive area package
4. Scale Base Options
  - Stainless steel scale base
5. Lance Options
  - Sanitary Lance
  - Corrosive
  - Quick Disconnect
6. Enclosure Options
  - Stainless steel
7. Structural Options
  - Single Scale/Single Lance
  - Hinged wiper ring housing
8. Pneumatic Drip-pan
9. Purge through lance
10. Accessories
  - Bung tooling
  - Line voltage regulator
  - Step-down transformer
  - Serial Printer
  - Spare parts
11. Air Motor Drive for precise control of Lance positioning

## Sequence of Operation

- Operator programs KSS5069 for fill presets in program mode and switches to run mode
- System is ready for a fill cycle and displays “Ready To Fill”
- Operator places two containers on the scales (or just one container for single filling mode) and pulls down the Start Fill lever
- Controller checks for presence of containers on scales and automatically tares the weight. If containers are not detected (this is accomplished by checking the weight on the scales) the cycle is aborted automatically (Start Lever is automatically kicked up) and an error message is displayed on the PanelView plus screen.
- System starts the fill cycle in slow fill mode until the slow fill target weight is met.
- System switches to fast fill mode until the final slow fill target weight is met.
- System switches to slow fill mode until target weight is met.
- System closes the ball valve.
- System delays for settling delay time to give product to settle down.
- System recalculates Preact value.
- System kicks the Start lever up.
- System sends fill data through the serial port on the PanelView Plus.
- System is ready to fill next set of containers.

