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MODEL 4T-55

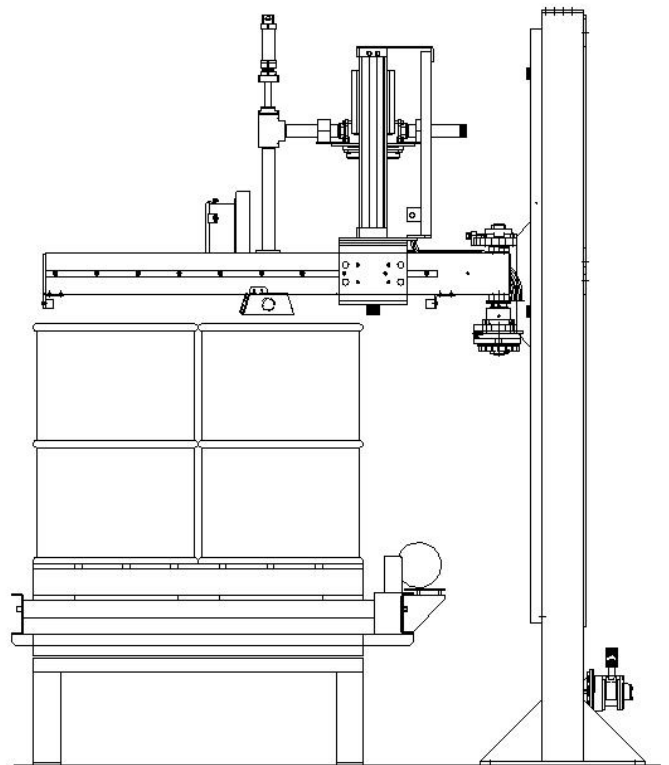
The model 4T-55 is designed to provide accurate liquid filling of palletized 55 gallon drums and totes.

Velcon top fill systems provide a reliable and quick way to fill non-foamy products.

The model 4T-55 has a robust 304 stainless steel structural construction and 316 stainless steel wetted parts. It incorporates an Allen Bradley PLC and HMI based VFC1400 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
- VFC1400 controller Hardware
 - Allen Bradley Micrologix PLC with Ethernet IP
 - Allen Bradley PanelView-Plus 600 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 Drum 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 VFC1400 controller manual for full standard features
- Two ball valve system for Slow-Fast-Slow fill modes
- Hand operated lever for Fill Start/Stop operation



**Conveyor Optional*

Standard Construction

- 304 stainless steel structural construction
- 316 stainless steel wetted parts (Lance and pipe).
- 304SS Nema 4X Control Enclosures
- Two-piece 316 stainless steel ball valves
- Foot valve at end of lance for minimizing drips
- 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
- Carbon steel ball screw drive system
- Carbon steel low profile scale case
 - Raised Platform
 - Sealed load cells
 - 1 part in 5,000 resolution (5,000 Lb X 1.00 LB)
 - 5,000 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 PanelView-Plus 800/1000 Color
3. Environmental area Options
 - Corrosive area package
4. Scale Base Options
 - Stainless steel scale base
 - High Capacity scale base
 - High precision scale base
5. Lance Options
 - Sanitary Lance
 - Corrosive
 - Quick Disconnect
6. Structural Options
 - Dual Lance
 - Adjustable Stanchion (Tote Option)
 - Powder Coat Protection
7. Pneumatic Drip-pan
8. Purge through lance rod
9. Manual container grounding and monitoring
10. Automatic container grounding and monitoring
11. Overfill detection
12. Weighed container seal fume collector
13. Accessories
 - Bung tooling
 - Work platform
 - Scale mount
 - Line voltage regulator
 - Step-down transformer
 - Serial Printer
 - Spare parts
14. Conveyor
 - Extensive Conveyor Product Line available to complete your System

Sequence of Operation

- Operator programs VFC1400 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 pallet of drums or a single tote on the scale and pulls down the Start Fill lever
- Controller checks for presence of container on scale and automatically tares the container weight. If container is not detected (this is accomplished by checking the weight on the scale) the cycle is aborted automatically (Start Lever is automatically kicked up) and an error message is displayed on the PanelView plus screen.
- The lance is lowered into the container monitoring for lance misalignment.
- System opens the foot valve and ball valves
- System starts the cycle in fast fill mode until the slow fill target weight is met.
- System switches to slow fill mode until target weight is met.
- System closes the foot valve and ball valve.
- System starts raising the lance to the top position.
- 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 container.