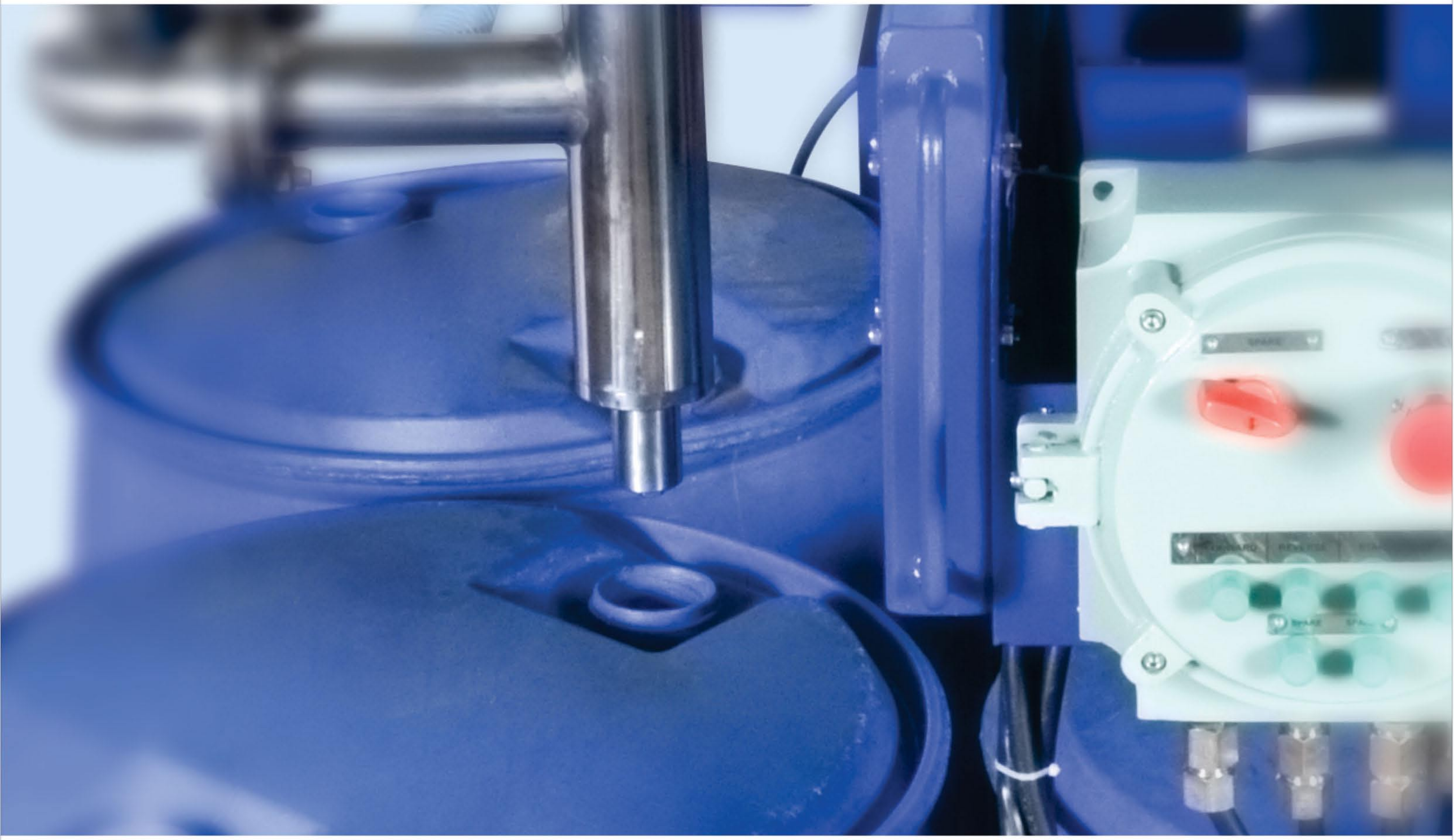
WEIGHTRONICS

Liquid Filling Systems



Weighmetric filling solutions for all types of liquids

- Chemicals
- Solvents
- Resins
- Paints
- Pesticides
- Adhesives
- Pastes and slurries
- Grease
- Oils
- Food products

Key Features

General :

- Filling by weight (gravimetric)
- 3 speed filling for greater accuracy and higher speed
- Wetted parts : SS316 with PTFE seals*
- 9 Memories to store different recipes
- Totalizer for containers filled and total weight
- Real Time Clock
- RS 232/422 communication interface for PC / printer
- Operation in auto / manual mode
- Resumption of filling from same point
- LED display for weight indication
- LCD Dot matrix back lit display for process status / on-line parameter value

*Other MOC as per requirement can be provided

Filling Methods :

- Above bunghole - non foaming, viscous
- Below bunghole - non foaming, low viscosity
- Subsurface - foaming, low viscosity

In-flight Correction :

(For compensating against the additional liquid fall after the nozzle is closed)

- Static - user defined fix value
- Percentage step correction - automatic correction by error percentage
- Dynamic auto-correction based on flow rate of liquid

Optional :

- Nitrogen blanketing / purging
- Fume hood with outlet
- Earth fault interrupt
- Heat jacketing
- In-feed and out-feed conveyor
- Drum movement arrestor for single filling
- Drip tray
- Touch screen graphics display
- Ethernet port

IBC / Palletized Drum Filling System

- Pneumatic arrangement for drum height adjustment
- Pneumatic brakes on filling arm
- Pneumatic arrangement of forward / reverse movement of filling nozzle

Single drum filling system

Below bunghole filling

IBC / Palletized drum filling system

Below bunghole filling

Can / Pail filling system

Above bunghole filling

Single drum filling system

Subsurface filling

IBC / Palletized drum filling system

Subsurface filling

Tin / Can / Pail filling system

- 5 kg to 30 kg
- Holding tank for higher speed and filling accuracy

Benefits

- Increase in productivity
- No spillage
- Accurate filling
- Safe operation
- Recording of data
- Early payback

Filling Methods

Above bunghole :

The nozzle position is fixed and the bunghole of the container is aligned with respect to the nozzle. Entire filling is completed from the top of the container.

Below bunghole :

The nozzle travels 1” inside the bunghole of the container and then filling starts. the entire filling is completed from this position of the nozzle. After the filling is completed, the nozzle comes out of the bunghole and returns to the home position.

Subsurface :

The nozzle travels up to the bottom of the container and filling starts. The nozzle retracts in steps as set by user and the entire filling is completed with nozzle inside the container. After the filling is completed, the nozzle comes out of the bunghole and returns to the home position.

Operation

Single drum filling system :

For any filling method, after the START button is pressed the drum is automatically tared and filled in coarse/fine mode.

Palletized drum/IBC filling system :

In this system, the palletized drum/IBC is stationary and the nozzle is aligned with respect to the bunghole of each drum / IBC. After the START button is pressed and before each drum/IBC is filled, the complete weight on the platform is automatically tared and filled in coarse/fine mode.