



STS Liquid Filling System

Fully stainless steel

- The so-called filling weighing system is an automatic equipment which pours the liquids (poured materials) into the container according to the quantity that has already been set beforehand.
- All is required is to put the container on the weighing platform which is under the dispenser, press the button "start", the equipment will start to fill the liquid into the container as per the procedure and weights that have been set beforehand (no need for people to operate).
- Once been full, the container will be moved away and another empty one needs to be applied on the platform, press the button "start" to start filling the container again, etc.



[Technical specifications on next page](#)

Specifications:

Single or Dual Liquid Filling Station

(Separate filling apparatus, can be used as a single Liquid filling unit)

- 90L/min based on the viscosity of the liquid/pump derivative
- Net & Gross Filling, Automatic Tare if required
- Buzzer & LED Indicators, indicating Hi, LOW, OK
- OIML Approved Indication
- Quantitative Filling
- Accurate Filling to +/- 1% of FS
- Varied Capacity based on Filling Accuracy and Resolution
- <=0.1 Sec Weight Conversion
- Specific filling Nose requirements at customer request
- Fully Automatic Solenoid operation
- Operation keys Include Start, Pause, Resume, and Emergency Stop
- 3 in 1 Filling Methods (Above Level Filling, In Bung Level Filling, Below Level Filling)
- Automatic Zero Setting
- Pre – Set Tare (optional, Multifunctional indicator head (Touch Screen Model)
- Backup Battery power for Indicator (up to 96Hrs)

Communication

- RS232/Bluetooth data String/Optional
- Software if required

Model/Description	Max filling capacity	Specifications
STS-20 <u>Single</u> drum liquid filling	+/-25L	304 Stainless steel construction
STS-20 <u>Dual</u> drum liquid filling	+/-25L	304 Stainless steel construction
STS-200 <u>Single</u> drum liquid filling	+/-200L	Stainless steel construction
STS-200 <u>Dual</u> drum liquid filling	+/-200L	Stainless steel construction
Optional:		Specifications
Stainless steel rollers & platform scale		304 Stainless steel

Construction:

All material consists of 304 stainless steel

- Robust Design
- Filling Nose (Prolonged Life Span)
- Pneumatic Actuator
- IP65 Waterproof Indicator
- 52mm Digit LCD Display with LED Backlight
- Operating temperature @ -10°C <= 40 °C
- Adjustable Filling Apparatus
- Fixed Rod Guides
- Adjustable Feet for Levelling
- Platform Size (Varied) as per requirement, Default 40cm x 50cm
- Control box including inlet and outlet attachment pipes (ease for Troubleshooting)
- Square type 50 Bore Height Adjustment Cylinder
- Includes Transporting Rollers, Manual or Automatic

Optional

- For dangerous environment which tend to explode, explosive filling system should be used
- Refer to SHEKEL MERAV 2000 Ex series
- Fully Stainless steel rollers & platform scale (including loadcell)

Operation

- 6Bar operating Pressure (600Kpa)
- Pneumatically Driven
- 220VAC 50Hz isolated Power Source required

Filling Methods



ABOVE LEVEL FILLING

Above level filling is recommended for the filling of open top containers where the product may be quite viscous or the product is non foaming or non volatile. If the product is likely to splash during filling then above level filling is not recommended. A positive benefit of above level filling is that filling time is not wasted during the raising and lowering of filling nozzles. A negative factor is however that the filling nozzle is not positively engaged in the container and splashing may occur.



IN BUNG FILLING

In bung filling is the preferred method for filling products which are unlikely to foam and are filled at moderate speed. It is possible that in bung filling can aerate the process during filling. Higher velocities can create splashing. A positive benefit of in bung filling is that the filling nozzle is positively engaged during filling. Low flash products should not be filled using the in bung method.



BELOW LEVEL FILLING

Below level filling is the preferred method for filling hazardous products which are likely to splash. Products which generate static or classed as low flash products should only be filled using this method. High velocity filling is best performed using this method, velocity limits must be observed and the filling machine must control these velocities within certain limits. Foaming products should be filled employing this method. Viscous products are usually not filled using this method.