

# Alfa Laval Pilot aseptic filler

## Aseptic pilot filling system for bag-in-box and bag-in-drum duties

### Introduction

The Pilot aseptic filler is designed for use in laboratory and pilot applications as well as for taking sterile samples in aseptic industrial plants.

### Application

- Beer production
- Coffee and tea production
- Fruit and vegetable processing
- Soft drink production
- Syrup production
- Wine and distilled alcoholic beverages production

### Benefits

- Alfa Laval Astepo fillers are proven solutions based on 30 years of experience in aseptic processing.
- A fail safe system continuously controls the sterile conditions.
- In case of an unexpected risk of sterility loss the equipment aborts production and notifies the operator.
- The PLC allows for return to production mode only after all the parameters necessary for sterility have been reset successfully.

### Design

The Pilot aseptic filler is designed for 3–20 litre (½–6 gallons) and 200 litre (55 gallons) sterile flexible bags of the bag-in-box type.

The Pilot aseptic filler is available with a 2 inch filling valve for food products that contain pieces and particulates, and/or 1 inch valve for liquid products, dense and viscous. It is also ideal for use with low-acid products (typically those of the dairy type).

The system is also available with a sterile chamber in the hot version (using steam) and/or cold version (using an appropriate disinfectant).

The filler can be fitted with wheels so that it is easy to move from one place to another.

### Standard configuration

- Frame made of AISI 304 stainless steel
- Filling valve 1 inch made of AISI 316 stainless steel
- Volumetric dosing by magnetic flow meter



- Steam control group and aseptic head steam sterilization controlled by independent thermo-regulator
- Sloped and adjustable roller conveyor table made of AISI 304 stainless steel, with an air-fill piston for small 3–20 litre (½–6 gallons) bags
- Removable idle roller conveyor 1200 mm (47 inch ) for filling 200 litre (55 gallons) drums.

### Options

- Filling valve 2 inch made of AISI 316 stainless steel.
- Weight dosing by balance.
- Spout and aseptic head with chemical disinfection.
- Clamps to support bags and removable idle roller conveyor.

The system can be equipped with a printer, so customized adhesive labels can be placed on the samples.

**Working principle**

The dosing of the product is carried out by an electronic balance or by volume with a magnetic flow meter, and the system is managed by a PLC.

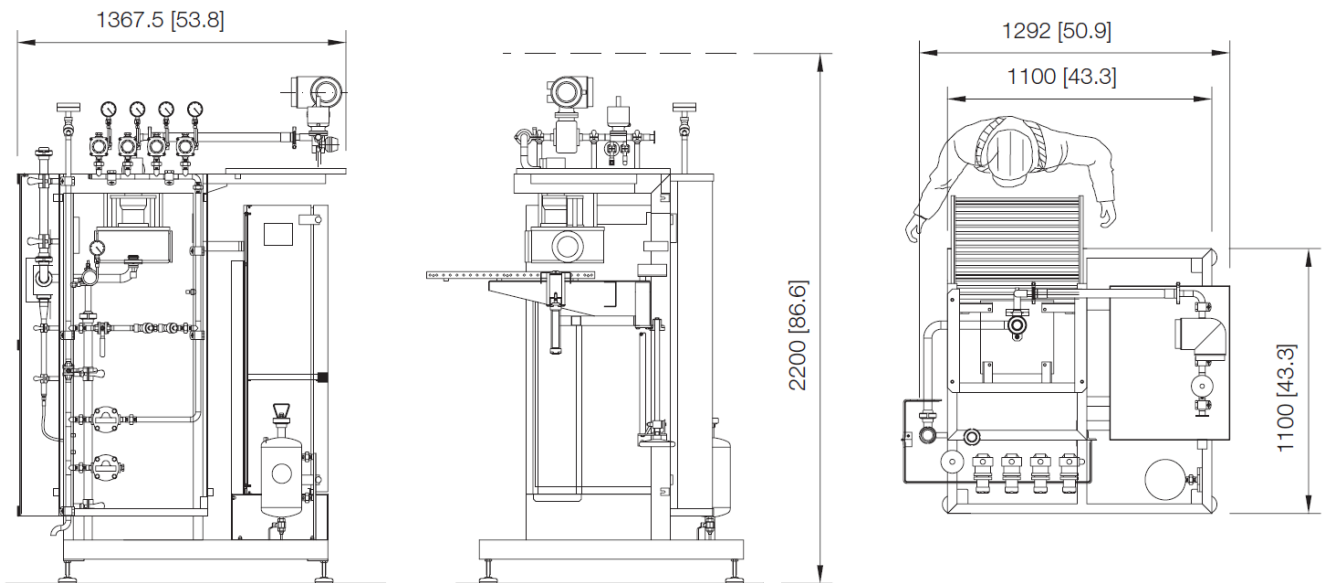
The Pilot aseptic filler is sterilized with steam and CIP sanitized automatically.

**Technical data**

Steam consumption at 6 bar	50 kg/hour (110lb/hour)
Deoiled air at 6 bar	10 NI / 1'
Electrical supply	220V – 50/60Hz – 1kW
Dimensions (LxWxH)	1100x1292x2200 mm (43.3x50.9x86.6 inches)
Weight	450kg (992lb)

**Dimensional drawing**

mm [inches]



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