

## Soda / Soft Drink Filler - Eight Head - for PET Bottles Pneumatically Operated PLC Controlled (Counter Pressure Filler)

This machine is ideal for small scale units for making soda/soft drinks in PET Bottles. The machine is pneumatically operated by a PLC (Computer controlled). It can fill all sizes of bottles from 200 ml to 2000 ml. It can be quickly programmed according to bottle size. A control panel is provided for this. The machine must be connected to a suitable Carbonator.

The machine consists of a tank in which soda from the Carbonator is stored. It has a safety release valve, a pressure gage to monitor tank pressure, an automatic air relief valve to release air from the tank from time to time and a gage glass tube to check the level of liquid in it. A compressed air line from air compressor must be connected to it. For this an FRL is provided.

The machine has eight filling heads – four on either side. So two persons are required to operate it. Each side has a control panel so both the sides can be operated independently. Each operator keeps four bottles on the neck holding plates. When a switch is pressed on the control panel, the bottles automatically go up. The counter pressure, filling, snifting and bottles release are all taken care of by the PLC. The operator takes off the four filled bottles and the cycle is continued. The bottles can now be capped.

To make Soft drinks, the syrup concentrate is previously filled into the bottles. The bottles are then kept on the machine and soda filled. The soda mixes with the syrup inside the bottles and the soft drink is ready machine. For small scale units which have limited production, this method of soft drink production is ideal because any flavor can be filled at any time without having to clean the system every time a different flavor is filled.

The Counter pressure method of filling ensures that during the filling there is no loss of carbonation. The machine is very easy to use and requires very less maintenance limited to change of washers, springs & oil change in FRL from time to time.

Output of the machine is about 16 – 20 bottles per minute (of 300 ml size). But this may be less for larger size of bottles. Production also depends on the operator speed. All contact parts are SS 304.



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