

Gravity Liquid Filling Machine - for PET / Glass Bottles - 4 / 8 Head

The Gravity Liquid Filling Machine is ideal for filling all non-viscous liquids like Juice, Mineral Water, Milk, Ayurvedic medicines, Non corrosive chemicals, liquid soaps, Coconut oil, Edible oils etc in PET or Glass Bottles. It is available with 4 or 8 filling heads. It can fill any size of bottle from 200 ml to 2000 ml. The machine can be altered for filling special shaped bottles also. It consists of a SS tank of capacity 175 liters (for a 4 head machine) and 225 liters (for a 8 head machine)



Mode of Operation:

- Liquid is poured into the tank – manually or by a pump.
- Requires one person for a 4 head machine and 2 persons for a eight head machine.
- Four / eight bottles are held on the bottle holding plate by their necks.
- Foot Lever is pressed.
- The bottles go up into the filling heads with the filling nozzles inside the bottles.
- The liquid starts to flow into the bottles.
- Once the liquid level reaches the nozzle level, the foot lever can be released and the filled bottles can be taken off.
- The above process can be repeated for the next batch.

Optional Features Available:

- The Machine can be pneumatically operated – for this an air compressor is required.
- The machine can be used for filling hot liquids – the tank in which case can be supplied with insulation to retain temperature while filling.
- The machine can be supplied with an SS pump to fill the liquid in the tank.
- A liquid level sensor to switch the pump on and off can be fitted to maintain liquid level inside tank.
- A PET Bottle capping machine can be fitted on one side of the machine so that capping can be done immediately.

Advantages:

- It is simple to operate.
- Requires no skill.
- Ladies can operate.
- It does not require power.
- Maintenance is simple and minimal and limited to change of washers & spring in the filling valve. The frequency of change depends on the type of liquid being filled and the number of bottles per day.
- Accuracy of fill quantity is maintained. Liquid will not overflow even if there is a delay in releasing the foot pedal.
- Final fill level inside bottle can be adjusted.
- The valves can be easily dismantled for cleaning and quickly refitted again.
- The tank can be cleaned – a drain valve is provided at its bottom for this.
- A Gage glass level tube is fitted on one side of the tank so the liquid level in it can be monitored.
- Production of about 10-12 bottles/minute can be achieved (250 ml bottles) for a four head machine and 20-24 bottles/minute for an eight head machine. But this depends on the operator's speed and dexterity.



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