

## FILLING OF CARBONATED AND NON-CARBONATED DRINKS INTO PET BOTTLES

### FILLING METHOD

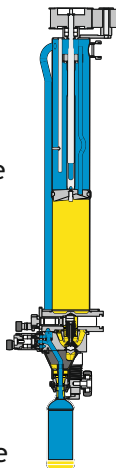
- mechanical volume filling using cylinders

### FILLING OPTIONS

- mineral water
- still water
- soft drinks
- sparkling wine
- carbonated and non-carbonated liquids
- filling to PET or glass bottles

### PRINCIPLE AND PARAMETERS

- faster speed of filling - lesser number of filling valves
- **reduction of 80% in loss of beverages in the event of interruption of filling-special emptying cistern**
- fast change of volumes to be filled, without the necessity to intervene with the filling valves,
- always the same volume of filled liquid in PET bottle regardless of pressure during the filling process or the quality of the PET bottles
- filling within the volume range of 0,33 l - 2,5 l,
- single - or double - evacuation for glass bottles
- **irrigation of bottle** - for PET bottles - and foaming permits the achieving of a low increase of O<sub>2</sub> during filling
- application of inert gas (liquid N<sub>2</sub>) to the bottleneck space, after the filling of the bottle, before capping - creates protection of the beverage from oxygen activity (increasing shelf life and maintaining taste) and from hardening of the bottle prior to further manipulation (labelling, packaging and palletisation)
- in the scase on of non-carbonated beverages



### BASIC PRINCIPLE OF FILLING

- the liquid is released into the measuring cylinder
- from here the liquid is drained into bottles in a precisely pre-measured volume along the walls of the bottles
- air is extracted from the bottle by an air tube to a space outside the tank
- the filled volume is defined by adjustment of the height of the piston of the filling valve



### EXAMPLE OF SOLUTION

- Veseta spol. s.r.o., plant Litovel, Czech republic  
PETBLOK 48/80/10
- Ondrášovka a.s., plant Ondrášov, Czech republic  
PETBLOK 48/80/10 ULTRACLEAN  
PETBLOK 40/64/8
- VÄRSKA VESI AS, Varska, Estonia  
PETBLOK 30/50/8
- Telemark Kildevann, Fryesdal, Norway  
PETBLOK 40/64/10
- UAB „Kalnapilio-Tauro grupe”, Panevežys, Latvia  
PETBLOK 48/90/10

