



TECNA ISO-V

**FILLING SYSTEM FOR BEVERAGES
IN GLASS BOTTLES**



WORKING PRINCIPLE:
Wine, Sparkling Wine and Beer require a low-oxygen filling System. TECNA ISO-V is the electro-pneumatic filling solution that can be adapted to the requirement of the product to be bottled. Single, double pre-
evacuation or no pre-
evacuation at all, can be performed according to filling recipes selected on

the touch-screen by operator. After bottle pressurization the filling valve will open and the product flows along the bottle wall, thus allowing gentle and no foam filling. The inflowing product displaces the gas in the bottle, which is returned to the filling tank through the vent tube. When the level in the bottle comes to close the vent tube the filling will

stop and the filling valve will close again. The self level correction system feeds CO₂ or N₂ into the bottle neck, causing surplus filled product to flow back into the filler tank. After a settling phase, the snifting valve reduce the pressure in the bottle neck (can be multiple stages) and than the container leaves the filling machine.

APPLICATIONS:
Filling of carbonated beverages (Beer, CSD, Wine or Carbonated Water) in Glass bottles

OUTPUT RANGE:
Filler from 16 to 70 valves, depending on the product to be bottled, this system can fill from 2.000 up to 36.000 bottles per hour.

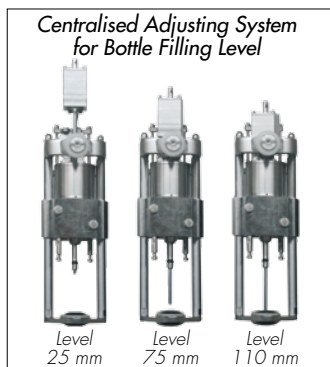
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DESIGN FEATURES:

- Filling valves electro-pneumatically controlled;
- Short-tube filling system;
- Precise fill level definition with quick-change insertable vent tube;
- Counterpressure filler working by level;
- Hot and Cold filling possibility;
- Filling Valves mounted outside the product filler tank;
- No springs in contact with product;
- Filling phases managed by pneumatically driven PTFE membrane valves;
- No part of the filling valve needs replacing during format changeovers;
- Independent movement of centering bell driven by roller;
- Wide production range: the broad choice of pitches and sizes allows customers to select the most suitable model;
- Electrical height adjustment of the filler tank and rinser /capper
- Rotary distributor and all parts contacting product or gas are made of stainless steel Aisi 304 or higher grade;
- Manifoldded snifting circuit involved in CIP steep;
- Quick-change system for centring bells for handling various bottle neck shape;



- Cleaning in the closed circuit via CIP Dummy Bottles;
- Spray Balls into filler tank for optimal cleaning and fast product change-over;
- Vacuum pump with water saving system that can be cleaned during CIP;
- Easy & intuitive touch-screen operation;
- Filling Steps can be individually set and saved in the PLC for each product or bottle;
- Bottle Rinser can be integrated;
- Up to 2 capper can be integrated.

MODELS:
TECNA ISO V
TECNA ISO-VP
TECNA ISO-FM



SIZE CHANGE OVER

USER BENEFITS:

- **Versatility** this filling system is suitable for a wide range of product from Water, CSD Beer and Wine.
- **Flexibility** change over of different product or CO2 contents is done quickly, easily and it is reproducible by working recipes stored on PLC
- **Quick change over times.** Short change over of different bottle size, available also as adjustable pocket stars version.
- **Hygienic bottling conditions** no dynamic gaskets in contact with product, the valve is sealed by a simple PTFE membrane valves
- **Exact fill level** by inert gas self level correction system, feeding CO2 or N2 into the bottle neck

- **Easy maintenance.** The machine is well accessible so that all maintenance and service job can be done easily.
- **Product Quality** Low oxygen pick up ensures high product quality during the S.L.

ADDITIONAL EQUIPMENT:

- **ULTRACLEAN BASE FRAME** Upon request, the base frame is available in ultraclean version, characterized by the double slope of the upper surface. This special design guarantees complete rapid draining of all product & water residue.
- **MODEM.** Upon request, remote maintenance possibility.
- **Centralized adjusting system** for bottle filling level.

Filling System mod. TECNA ISO-V						
Machine Ø (mm)	Machine Pitch (mm)					
	188,40	150,72	141,30	129,20	125,60	113,04
720	12	15	-	-	18	20
960	16	20	-	-	24	-
1152	-	24	-	28	-	32
1440	24	-	32	-	36	40
1800	-	-	40	-	45	50
2160	-	-	48	-	54	60
2520	-	-	56	-	63	70

Monoblock configuration with Capper						
Machine Ø (mm)	Machine Pitch (mm)					
	188,40	150,72	141,30	129,20	125,60	113,04
720	12/1	15/1	-	-	18/1	20/1
960	16/4	20/5	-	-	24/6	-
1152	-	24/6	-	28/7	-	32/8
1440	24/4	-	32/8	-	36/6	40/10
1800	-	-	40/8	-	45/9	50/10
2160	-	-	48/8	-	54/9	60/15
2520	-	-	56/12	-	63/9	70/15

Triblock configuration with a Rinser and Capper						
Machine Ø (mm)	Machine Pitch (mm)					
	188,40	150,72	141,30	129,20	125,60	113,04
720	12/12/1	15/15/1	-	-	18/18/1	20/20/1
960	16/16/4	20/20/5	-	-	24/24/6	-
1152	-	24/24/6	-	28/28/7	-	32/32/8
1440	20/24/4	-	24/32/8	-	30/36/6	40/40/10
1800	-	-	32/40/8	-	36/45/9	50/50/10
2160	-	-	40/48/8	-	45/54/9	60/60/15
2520	-	-	48/56/12	-	54/63/9	70/70/15



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