



TECNA ISO-C

FILLING SYSTEM FOR BEVERAGES IN CANS



WORKING PRINCIPLE:
The TECNA ISO-C is the electro-pneumatic filling solution suitable for the filling of carbonated and non carbonated beverages, as well as for the hot filling of beverages into cans. The centering unit, which is controlled by the cam roller, is raised when the can enters the filler, and the can is positioned on the can lifter under the filling valve.

Once the centering element has been lowered by the cam roller, the pneumatic can lifter will lift-up the can (about 40 mm) to guarantee a good sealing between can and filling valve. After can pressurization by gas, the filling valve opens and the product flows along the can wall, thus allowing gentle and no foam filling. The return gas escapes into the return gas channel via

the borehole inside the filling valve stem. Once the level in the can comes to close the vent tube the filling will stop and the filling valve will close. After a settling phase, the snifting valve reduces the pressure in the can neck (can be multiple stages) and than the lifter will lift-down, so the can is transferred to the seamer.

APPLICATIONS:
Filling of Carbonated Beverages (Beer, CSD or Carbonated Water) and Non Carbonated Beverages, Energy drinks (Cold or Hot filling) in aluminum or Steel Cans from 100 to 660 ml.

OUTPUT RANGE:
Filler from 10 to 60 valves, depending on the product to be processed, this system can fill from 3.000 up to 36.000 cans per hour.

TECNA ISO-C

www.matrix-srl.com

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DESIGN FEATURES:

- Filling valves electro-pneumatically controlled;
- Counterpressure filler working by level;
- Central filling level correction. The submersion depth of the return gas tube is adjusted by the ring tank adjustment facility;
- 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;
- 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;
- Rotary distributor and all parts contacting product or gas are made of stainless steel Aisi 304 or higher grade;
- Manifolded sniffling circuit involved in CIP step;
- Cleaning in the closed circuit via CIP Dummy Cans;
- Easy & intuitive touch-screen operation;
- Filling Steps can be individually set and saved in the PLC for each product or bottle.

MODELS:

TECNA ISO-C.

USER BENEFITS:

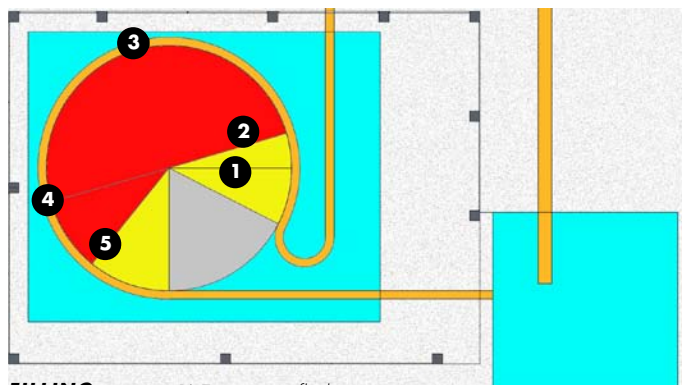
- **Versatility**, this filling system is suitable for a wide range of product from Water, CSD and Beer.
- **Flexibility**, change over of different product or CO2 contents is done quickly, easily and it is reproducible by working recipes stored on PLC.
- **Quick change over times**,

short change over of different cans size.

- **Hygienic filling conditions**, no dynamic gaskets in contact with product, the valve is sealed by a simple PTFE membrane valves.
- **Easy maintenance**, the machine is well accessible so that all maintenance and service job can be done easily.
- **Product Quality**, low oxygen pick up by CO2 empty cans rinsing ensures high product quality during the S.L.

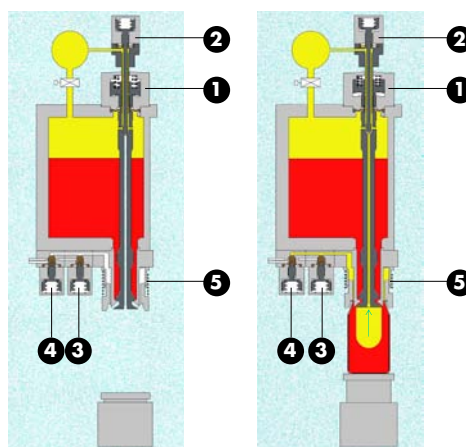
ADDITIONAL EQUIPMENT:

- **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;
- **Low Oxygen Pick Up System** by CO2 Rinsing into Empty Cans.
- **Integration in block with Seamer**.



FILLING SYSTEM FOR BEVERAGE CANS

- 1) Empty can flushing;
- 2) Empty can pressurisation;
- 3) Product filling;
- 4) Product settle;
- 5) Sniffling;



FILLING VALVE

PRODUCT FILLING

- 1) Control cylinder for product valve;
- 2) Pressurisation and return gas valve;
- 3) Sniffling valve;
- 4) CO2 flushing and cip return valve;
- 5) Compensation spring.

Filling System mod.TECNA ISO-C						
Machine Ø (mm)	Machine Pitch (mm)					
	301,44	150,72	141,30	124,34	113,04	103,62
960	10	20	-	-	-	-
1152	-	24	-	-	-	-
1440	-	-	32	-	40	-
1980	-	-	-	50	55	60

Monoblock configuration with Seamer								
Machine Ø (mm)	Filler Pitch (mm)							
	301,44	150,72	150,72	141,3	113,04	124,34	113,04	103,62
	Seamer Pitch (mm)							
		152,4	152,4	152,4	123,8	127	123,8	104,8
960	10/1	20/4	-	-	-	-	-	-
1152	-	-	24/4	-	-	-	-	-
1440	-	-	-	32/4	40/6	-	-	-
1980	-	-	-	-	-	50/6	55/6	60/8



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