

**SMC - Experts in the Beverage Industry** 





We are all being urged to save energy. Headlines remind us almost daily of the need to reduce our carbon footprint and adopt a greener lifestyle. It's an important issue and one we ignore at our peril. Growing customer expectations and increasing legislation also mean that businesses can no longer afford to ignore green issues.

By adopting an energy saving strategy as a part of your business efficiency programme, not only will you save money but you'll help make a sustainable lifestyle for future generations.

As world leaders in pneumatics, our experts have developed some of the most innovative ranges of energy saving products and activities for compressed air systems which will help you save money as well as helping in the fight to protect our environment.

If this sounds too good to be true, we'll be happy to share our energy efficiency knowledge and technology with you!







# SMC - Experts in the Beverage Industry

Expert (noun) - a person who is very knowledgeable about or skilful in a particular area (Oxford English Dictionary)

At SMC we recognise that an ability to fully understand the requirements and issues of any manufacturing process is the key to our future success.

For this reason alone, we have developed specialist teams to work in all the major manufacturing industries throughout the world – our Industry Experts.

In the case of the Beverage Industry our experts know the stringent requirements that need to be met and all have extensive knowledge of both your production process and your business needs.

We understand the important issues such as continuous 24/7 operation, the latest up-to-theminute hygiene regulations, the continual wash down and the extremes of heat and cold.

Our experts recognise that maximum operator health and safety is a MUST and with energy costs increasing at an alarming rate, even the smallest saving can have a real impact on a business's bottom line as well as the environment.

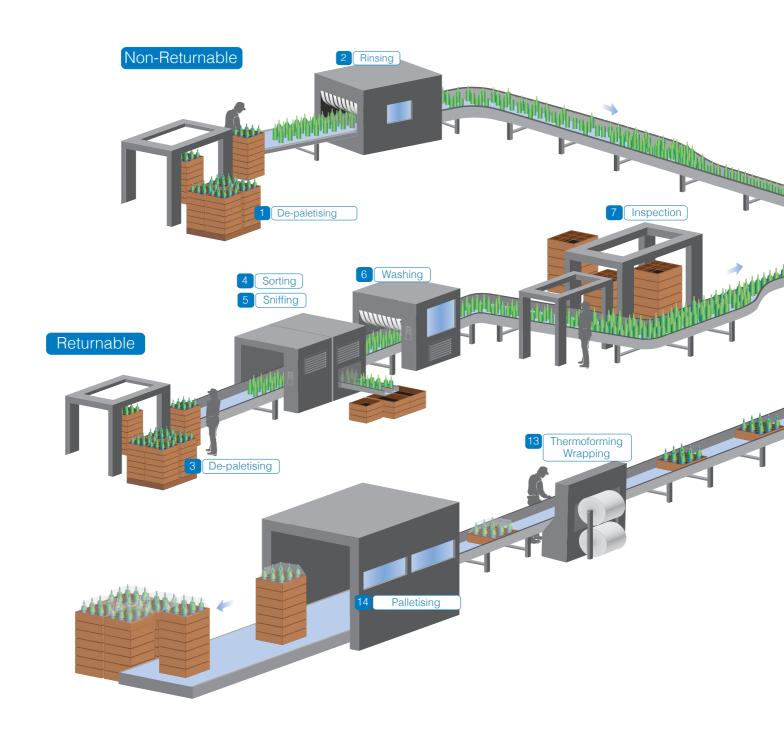




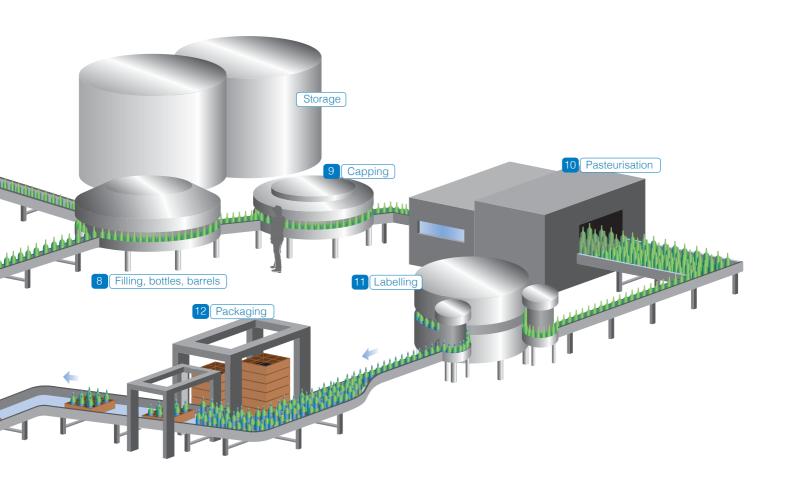


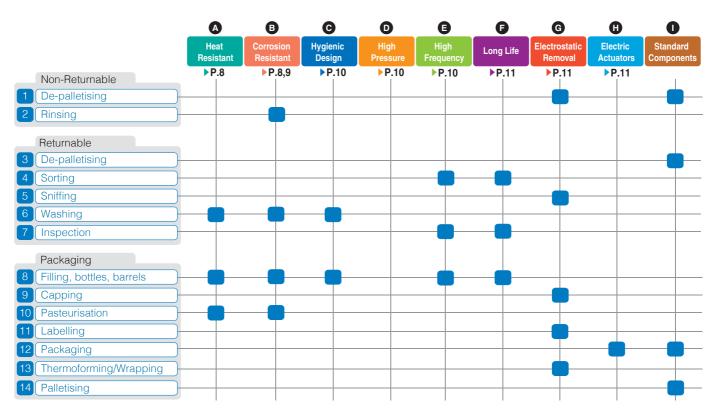


## **Bottle Filling Non-returnable and Returnable**

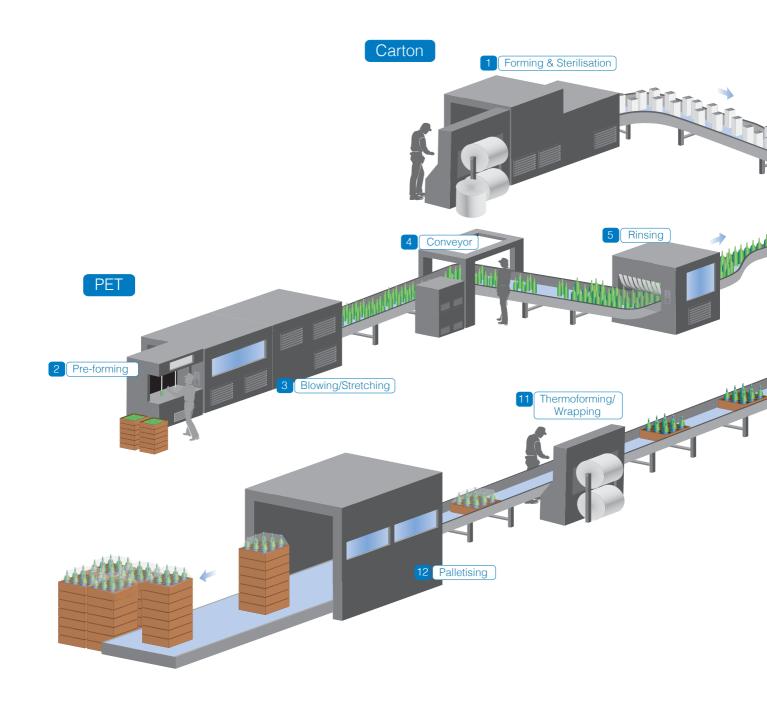








## **PET Bottle and Carton Filling**

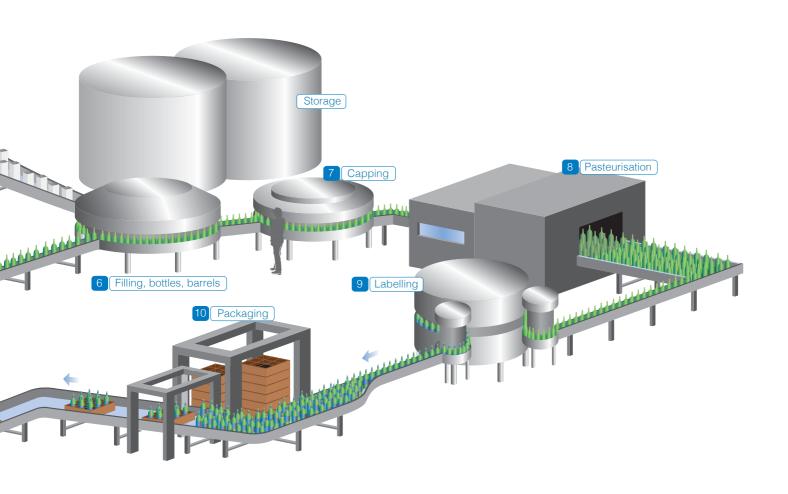


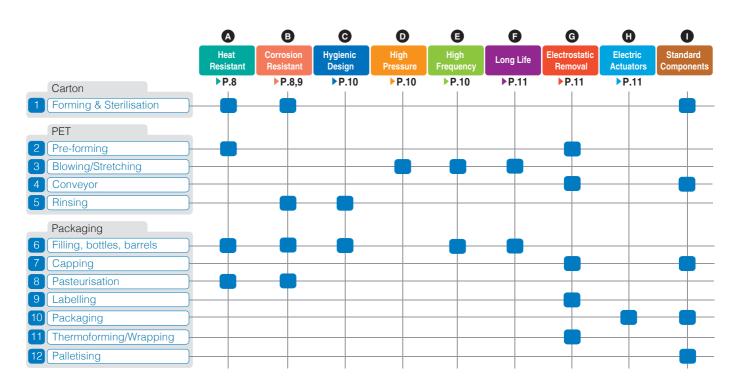
#### Note

- a) In some cases, different applications are combined in a single machine.
- b) Some of the process shown in the above illustration are not needed for every product.









## Heat Resistant

#### Guide Cylinder

• Compact Guide Cylinder Series MGP-Z-XB6 (-10~+150°C)



Series MGP-Z

#### ■ Standard Air Cylinder (Compact Style)—

- Compact Cylinder Series CQ2-Z-XB6 (-10~+150°C)
- Compact Cylinder Series CQS-XB6 (-10~+150°C)





■ Specialty Cylinder —

• Stainless Steel Cylinder Series CG5-XB6 (-10~+150°C)



#### ■ Modular FRL Combination/Air Preparation -

• High Temperature Environments ..... Series AF/AR/AW-X440



Series AF/AR/AW

## Corrosion Resistant

■Cylinder —

• Stainless Cylinder ...... Series CJ5-S/CG5-S



#### ■ Special Environments Fittings —

- Stainless Steel 316 One-touch Fittings.... Series KQG2
- Stainless Steel 316 Insert Fittings ----- Series KFG2
- S Couplers/Stainless type····· Series KKA
- Stainless Steel 316 Miniature Fittings ----- Series MS
- Stainless Speed Controller------ Series ASG





Series MS



#### ■2/3 Port Valves for Fluid Control -

- Air Operated Chemical Valve/
- Integral Fitting Series LVC
- Air Operated Chemical Valve/ Threaded Type------ Series LVA





Series LVC

Series LVA

#### ■ Digital Flow Switch-

• Digital Flow Switch for Deionized Water and Chemicals ..... Series PF2D



■ Fitting and Tubing -

• High Fluoropolymer Tubing (Super PFA)···· Series TL/TIL

• Soft Fluoropolymer Tubing (Modified PTFE)··· Series TD/TID

• Fluoropolymer Tubing (PFA)------ Series TLM/TILM

Clean One-Touch Fittings and Tubing ···· Series KP









Series TL/TIL

Series TD/TID Series TLM/TILM

#### ■ Modular FRL Combination/Air Preparation —

• Epoxi Coating Series AC/AF/AR/AL/AW/AFM/AFD-X480

• Stainless Steel 316 Filter Regulator ..... Series AW-X2622





Series AC/AF/AR/AL/AW/AFM/AFD-X480

■ Actuators-

• Piston Rod and Rod End Nut Made of Stainless Steel ..... Series -XC6

#### ■ Sensor-

- 2-Colour Display Digital Pressure Switch···· Series ISE70/75(H)
- 2-Colour Display Digital Pressure Switch---- Series **ZSE/ISE80**





Series ISE70/75(H)

■ Guide Cylinder —



Series MGP-Z

#### ■ Standard Air Cylinder (Compact Sytle) -

Compact Cylinder ----- Series CQ2-Z

• Compact Cylinder/Guide Rod Type ····· Series CQM Compact Cylinder ----- Series CQS

Compact Cylinder Plate Type ----- Series CQU



#### ■ Specialty Cylinder-

#### Water Resistant

• Stainless Steel Cylinder------ Series CG



#### ■ Serial Transmission System -

M8/M12 Connector ----- Series PCA/EX





### C ) Hygienic Design

#### Actuators—

 Guide Rod Type
 Series HYG 



#### ■ Pneumatic Solenoid Valve ——

• Hygienic NAMUR Interface Valve 3/5 Port Solenoid Valve ..... Series VFN (-X36)





## D High Pressure

#### ■ High Pressure Equipment —

• Pilot Operated 2, 3 Port Solenoid Valve..... Series VCH • Direct Operated Regulator (Relieving Type) ··· Series VCHR • Silencer ----- Series VCHN Mist Separator ...... Series VCHF-X16







#### ■Sensor—

• 2-Colour Display Digital Pressure Switch ... Series ISE75



Series ISE75

## High Frecuency

#### ■ Pneumatic Solenoid Valve-

• 5 Port Solenoid Valve------ Series VQZ100/200/300





Series VQZ100/200/300

#### Actuators

• Low Friction Cylinder/Metal Seal------ Series MQQ/MQM/MQP



Series MQQ/MQM/MQP



## F Long Life

#### ■ Pneumatic Solenoid Valve

#### Metal Seal

3 Port Solenoid Valve
 5 Port Solenoid Valve
 6 Port Solenoid Valve
 7 Port Solenoid Valve
 8 Port Solenoid Valve
 8 Port Solenoid Valve
 9 Port Solenoid Valve
 9 Port Solenoid Valve
 10 Port Solen





Series VQZ1000/2000/3000

Series VQZ100/200/300



## G Electrostatic Removal

#### ■ Ionizers -

- Ionizer (Bar) Series IZS40/41/42
  Ionizer (Nozzle) Series IZN10
- Ionizer (Fan) Series IZF10/21/31







#### ■ Measuring Instruments -

- Electrostatic Sensor/Monitor Series IZD10/IZE11
- Handheld Electrostatic Meter ----- Series IZH10





## H Electric Actuator

High Rigidity Electric Actuator Slider Type --- Series LEJ
 Electric Actuator Slider Type --- Series LEF
 Electric Actuator Slider Type Low Profile --- Series LEM
 Electric Actuator Guide Rod Slider --- Series LEL
 Electric Actuator Rod Type --- Series LEY
 Guide Rod Type Electric Actuator --- Series LEY
 Electric Slide Table --- Series LES
 Electric Miniature Actuator --- Series LEP
 Electric Rotary Table --- Series LER
 Electric Grippers --- Series LEH
 Electric Cylinder --- Series LZ









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