



SMC Experts - Working in the Beer Industry



■ Gain competitive advantage – discover some simple and effective ways to ensure operational savings and improve productivity

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 - Working in the Beer 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.

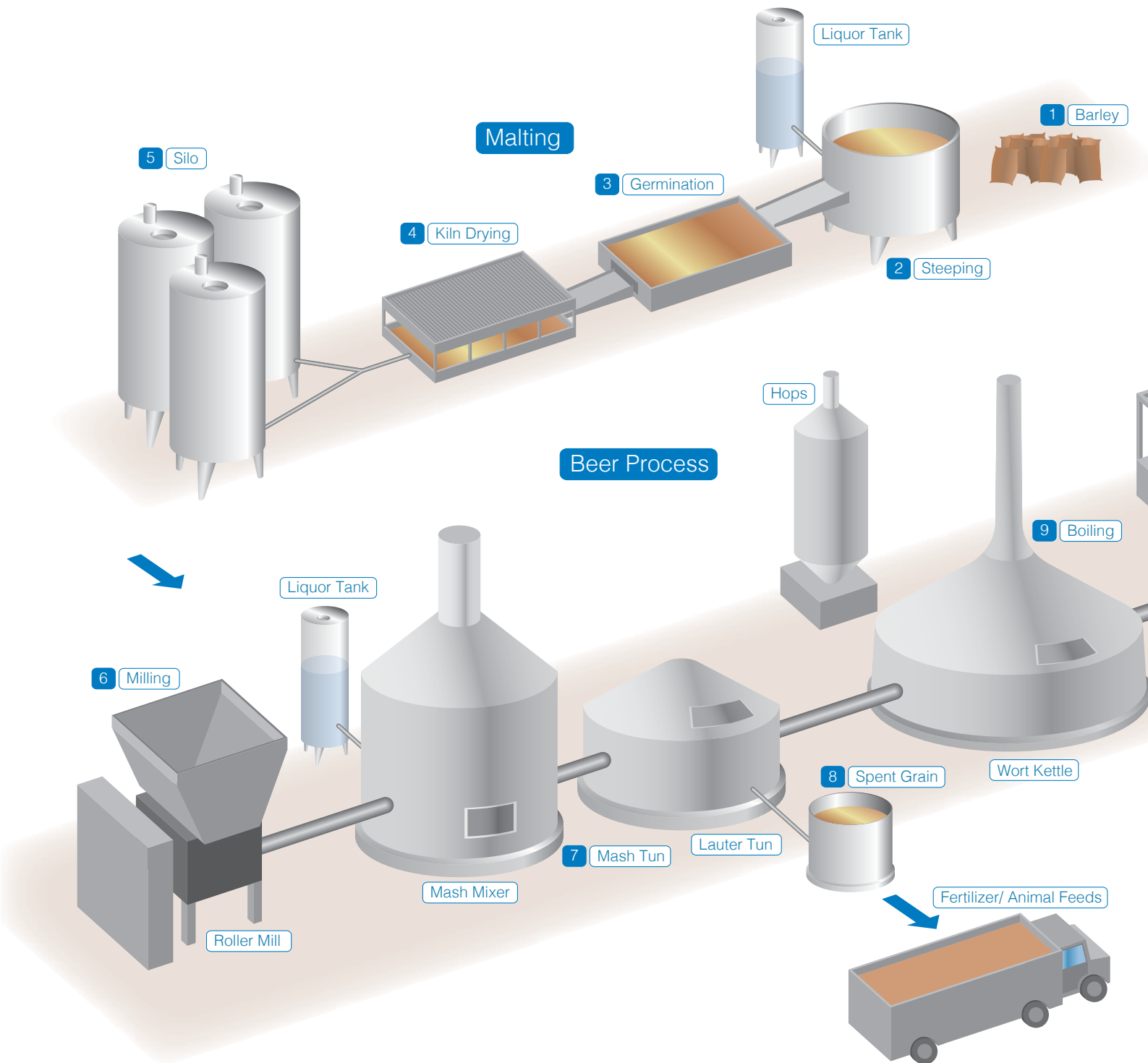
For this reason alone, we have developed specialist teams to work in all the major manufacturing industries throughout the world – our Industry Experts.

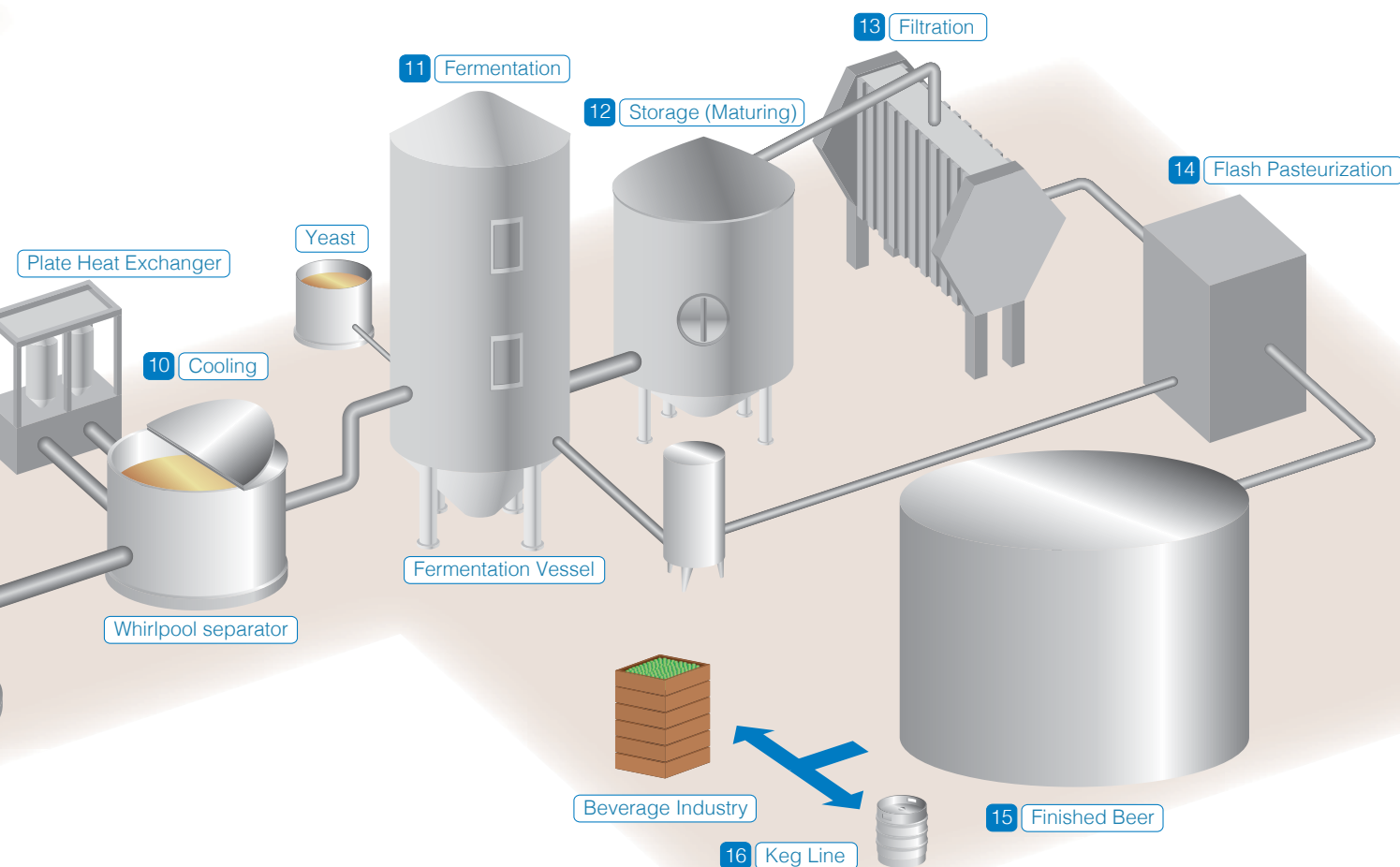
In the case of the Beer Industry our experts know the stringent requirements that need to be met and all have extensive knowledge of both your production process and your business needs.

We understand the important issues such as continuous 24/7 operation, the latest up-to-the-minute 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.







	A	B	C	D	E	F	G
	Corrosion Resistant	Hygienic Design	Heat Resistant	Fluids	Big Actuators	Special Solutions	Standard Components
	►P.6	►P.8	►P.8	►P.9	►P.10	►P.11	
1 Barley	■						■
2 Steeping	■	■	■	■		■	■
3 Germination		■					■
4 Kiln Drying	■	■					■
5 Silo					■		■
6 Milling					■		■
7 Mash Tun	■	■	■	■			■
8 Spent Grain	■	■		■	■		■
9 Boiling	■	■	■	■			■
10 Cooling	■	■	■	■		■	
11 Fermentation	■	■		■			
12 Storage (Maturing)	■	■		■			
13 Filtration	■	■		■			
14 Flash Pasteurization	■	■	■	■	■		
15 Finished Beer	■	■	■	■			
16 Keg Line	■	■			■	■	■

A Corrosion Resistant

■ Fitting and Tubing

- Clean One-Touch Fittings and Tubing..... **Series KP**
- FEP Tubing (Fluoropolymer)..... **Series TH**
- Clean Tubing: Polyolefin Tubing..... **Series TPH/TPS**



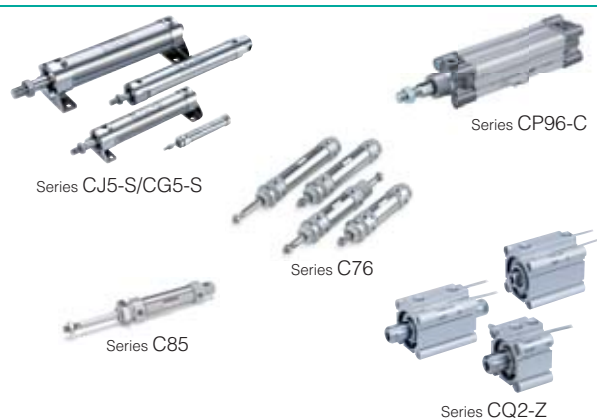
■ Special Environments Fittings

- 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 316..... **Series ASG**



■ Cylinders

- Stainless Cylinder..... **Series CJ5-S/CG5-S**
- ISO/VDMA Cylinder
Stainless Steel Rod Type..... **Series CP96-C (-XC68)**
- Stainless ISO Cylinder..... **Series C85 (-XC6)**
- Stainless Air Cylinder..... **Series C76 (-XC6)**
- Stainless Cylinder..... **Series CQ2-Z (-XC6)**



■ Water Resistant Cylinder (Compact Style)

- Compact Cylinder..... **Series CQ2-Z**
- Compact Cylinder/Guide Rod Type..... **Series CQM**
- Compact Cylinder..... **Series CQS**
- Compact Cylinder Plate Type..... **Series CQU**
- Air Cylinder (Round Style)..... **Series CG1-Z**

XC4 With heavy duty scraper
XC6 Piston Rod and Rod End Nut made of Stainless Steel



■ Water Resistant Cylinder (Guide style)

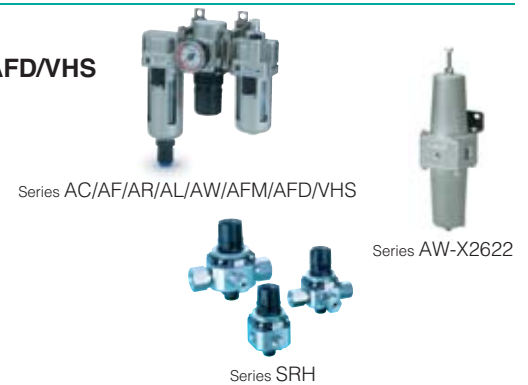
- Compact Guide Cylinder..... **Series MGP-Z**
- Guide Cylinder..... **Series MGG**
- Compact Guide Cylinder..... **Series MGQ**
- Guide Cylinder/Compact Type..... **Series MGC**

XC4 With heavy duty scraper
XC6 Piston Rod and Rod End Nut made of Stainless Steel



■ Modular FRL Combination/Air Preparation

- Epoxy Coating..... **Series AC/AF/AR/AL/AW/AFM/AFD/VHS**
- Stainless Steel Clean Regulator..... **Series SRH**
- Stainless Steel 316 Filter Regulator..... **Series AW-X2622**



■ Serial Transmission System

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



B Hygienic Design

■ Actuators

- Round Tube Type **Series HYB**
- Guide Rod Type **Series HYG**
- ISO Type **Series HYC**
- Compact Type **Series HYQ**



■ Standard Air Cylinder

- Air Cylinder (Round Style) **Series CG1-Z**



■ Pneumatic Solenoid Valve

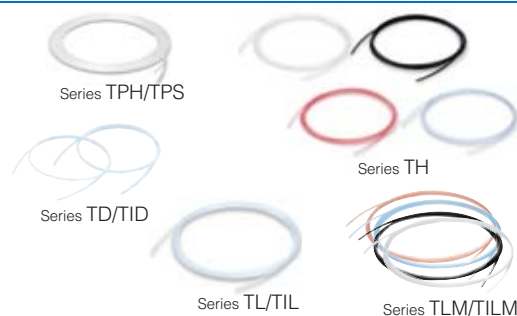
- Hygienic Design Valve IP69K **Series SY3000/5000**
- Hygienic NAMUR Interface Valve
3/5 Port Solenoid Valve IP67 **Series VFN (-X36)**
- 5 Port Solenoid Valve **Series VQZ1000/2000/3000**
- 5 Port Solenoid Valve **Series SV4000**



C Heat Resistant

■ Tubing

- High Fluoropolymer Tubing
(Super PFA) **Series TL/TIL (max. 260°C)**
- FEP Tubing (Fluoropolymer) **Series TH (-20~+200°C)**
- Clean Tubing: Polyolefin Tubing **Series TPH/TPS (-20~+80°C)**
- Soft Fluoropolymer Tubing **Series TD/TID (20~+260°C)**
- Fluoropolymer Tubing (PFA) **Series TLM/TILM (max. 260°C)**



■ Fitting and Speed Controller

- Speed Controller **Series AS (-5~+60°C)**
- Clean One-Touch Fittings and Tubing **Series KP (-20~+80°C)**
- Stainless Speed Controller 316 **Series ASG (-5~+60°C)**
- Stainless Steel 316 Insert Fittings **Series KFG2 (-5~+150°C)**
- Stainless Steel 316 One-touch Fittings **Series KQG2 (-5~+150°C)**



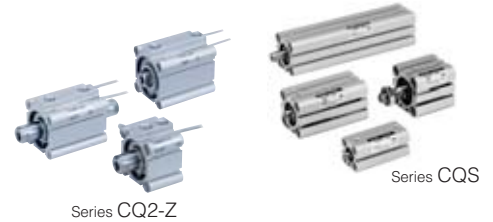
■ Guide Cylinder

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



■ Standard Air Cylinder (Compact Style)

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



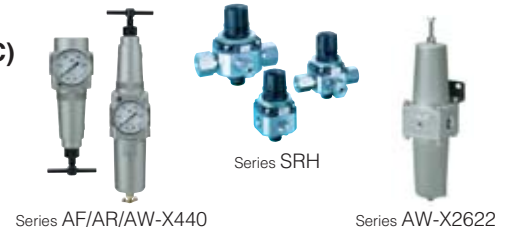
■ Specialty Cylinder

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



■ Modular FRL Combination/Air Preparation

- High Temperature Environments Series **AF/AR/AW-X440** (-5~+80°C)
- Stainless Steel Clean Regulator Series **SRH** (0~+60°C)
- Stainless Steel 316 Filter Regulator Series **AW-X2622** (-40~+80°C)



D Fluids

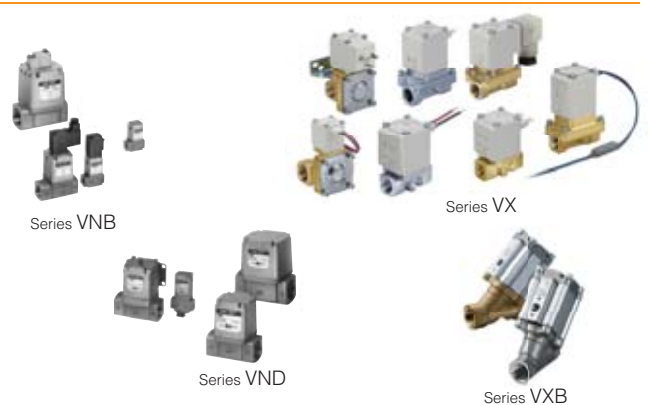
■ 2/3 Port Valves

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



■ Process Valve

- Process Valve Series **VNB**
- Steam Valve Series **VND**
- Process Valve Series **VX**
- Angle Seat Valve Series **VXB**



■ Fitting and Tubing

- High Fluoropolymer Tubing **Series TL/TIL**
- Soft Fluoropolymer Tubing **Series TD/TID**
- FEP Tubing (Fluoropolymer) **Series TH**
- High Purity Fluoropolymer **Series LQ**
- Stainless Steel 316 Insert Fittings **Series KFG2**



■ Fluoropolymer

- Process Pump Fluororesin Type **Series PAF**
- Digital Flow Switch for Deionised Water and Chemicals **Series PF2D**
- Clean Regulator/Fluororesin Type **Series SRF**



E Big Actuators

■ Cylinders

- ISO/VDMA Cylinder: Standard Type **Series C96-C**
- Air Cylinder **Series CS1**

XC6 Piston Rod and Rod End Nut made of Stainless Steel (CS1)
 XC68 Piston Rod and Rod End Nut made of Stainless Steel (C96-C)
 XC7 Tie-Rod, Cushion Valve, Tie-Rod Nut, made of Stainless Steel



■ Pressure Control

- Electro-Pneumatic Regulator **Series ITV**
- Power Valve Precision Regulator **Series VEX**
- Precision Regulator **Series IR**



F Special solutions for brewing industry

■ Serial Interface

- Decentralised System **Series EX500**
- Centralised System **Series EX600**
- Electro-Pneumatic Regulator
for Serial Transmission **Series ITV**



■ Positioners

- Cylinder Positioner **Series IP200**
- Pneumatic-Pneumatic Positioner **Series IP5000/5100**
- Electro-Pneumatic Positioner **Series IP8000/8100**
- Smart Positioner **Series IP8001/8101**



■ Speciality Products

- 1/4 Turn actuator **Series FNVB - Special order only**
- Customised build capabilities **Contact your local SMC office**



Customised panel building



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