



SMC - Experts in the Cheese 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 in the Cheese 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.

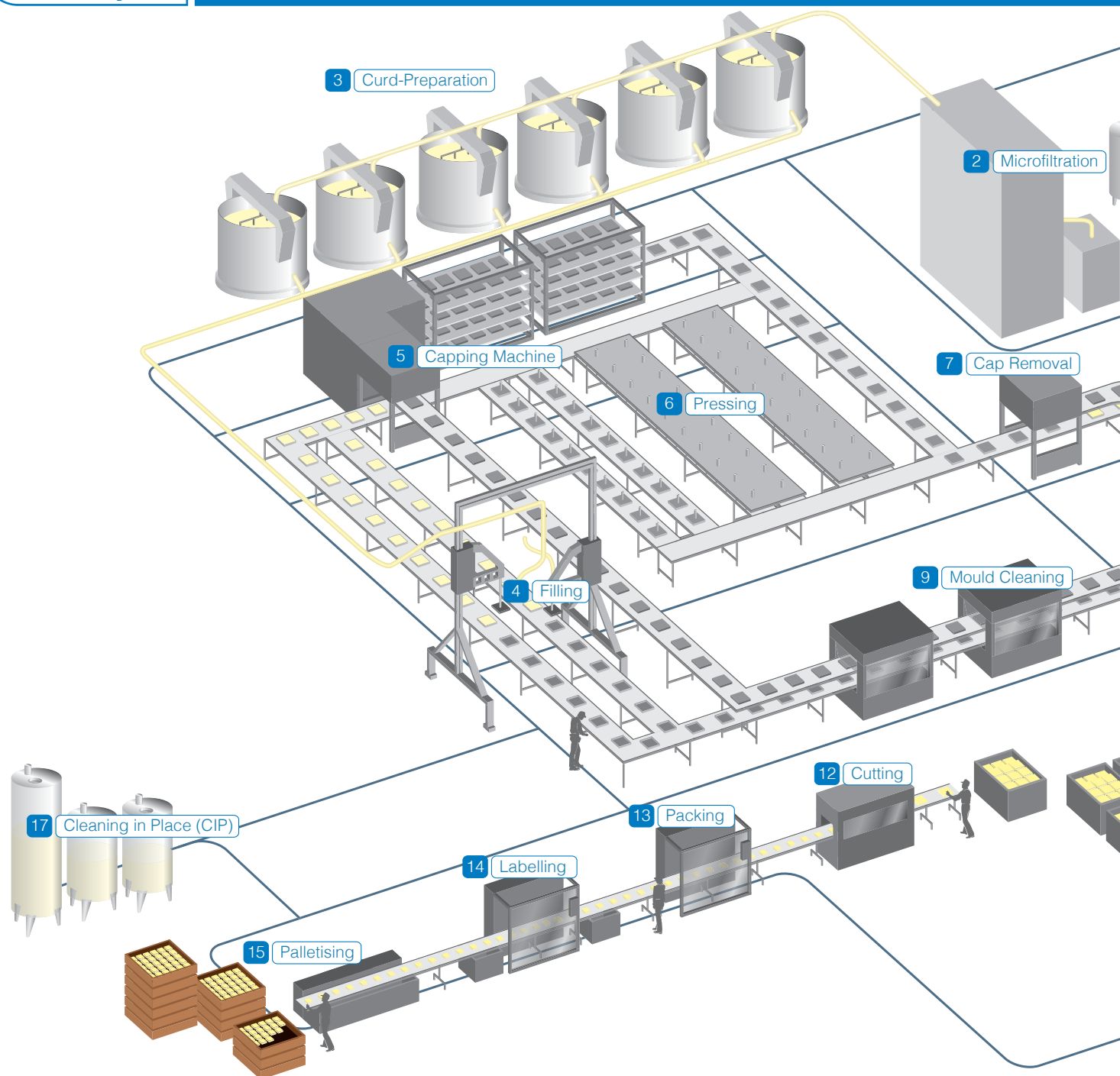
For this reason alone, we have developed specialist teams to work in all the major manufacturing industries throughout the world – our Industry Experts.

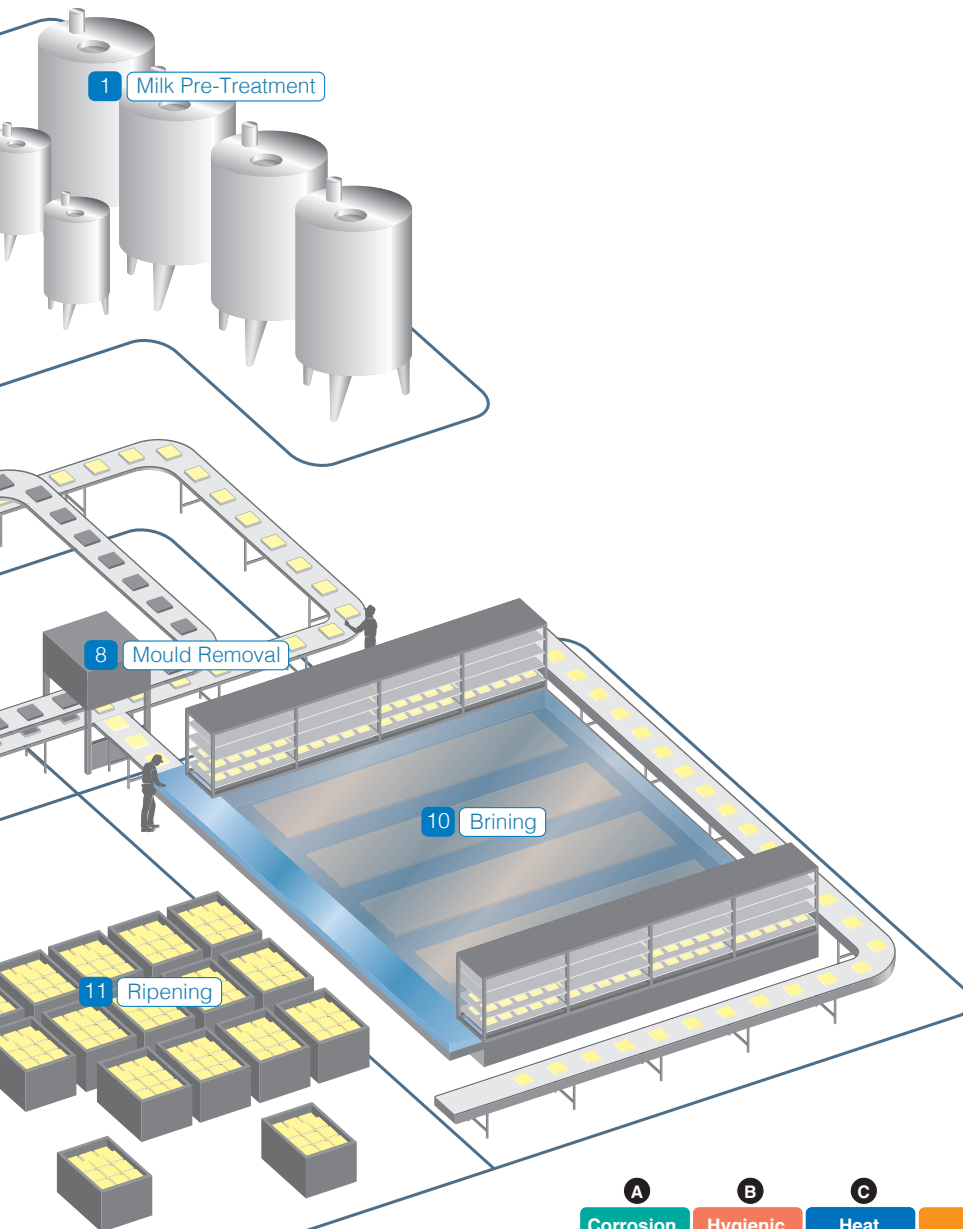
In the case of the Cheese Industry our experts know the stringent requirements that need to be met and all have extensive knowledge of both your production process and your business needs.

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.

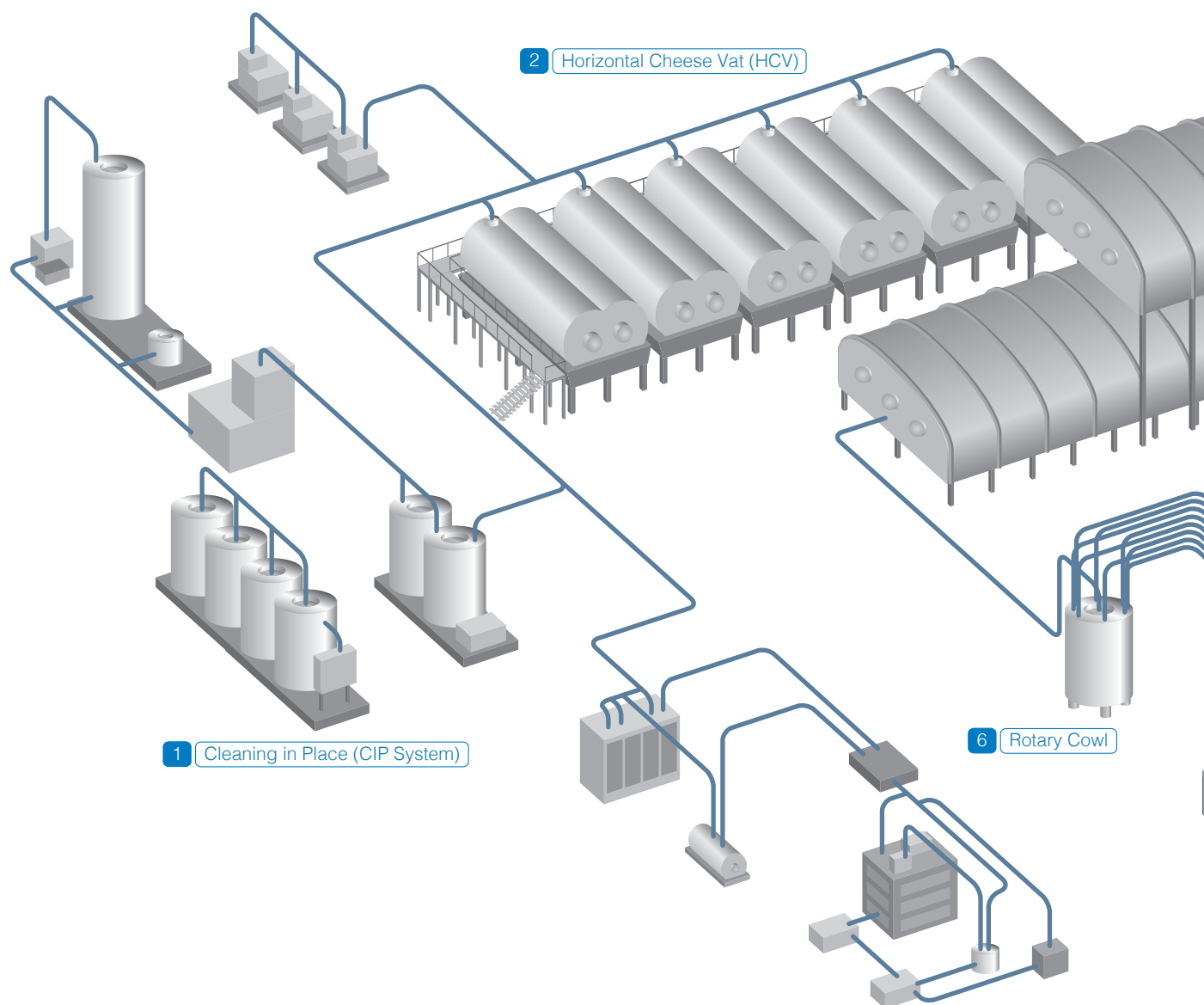
Our experts recognise that maximum operator health and safety is a MUST and with energy costs increasing at an alarming rate, even the smallest saving can have a real impact on a business's bottom line as well as the environment.

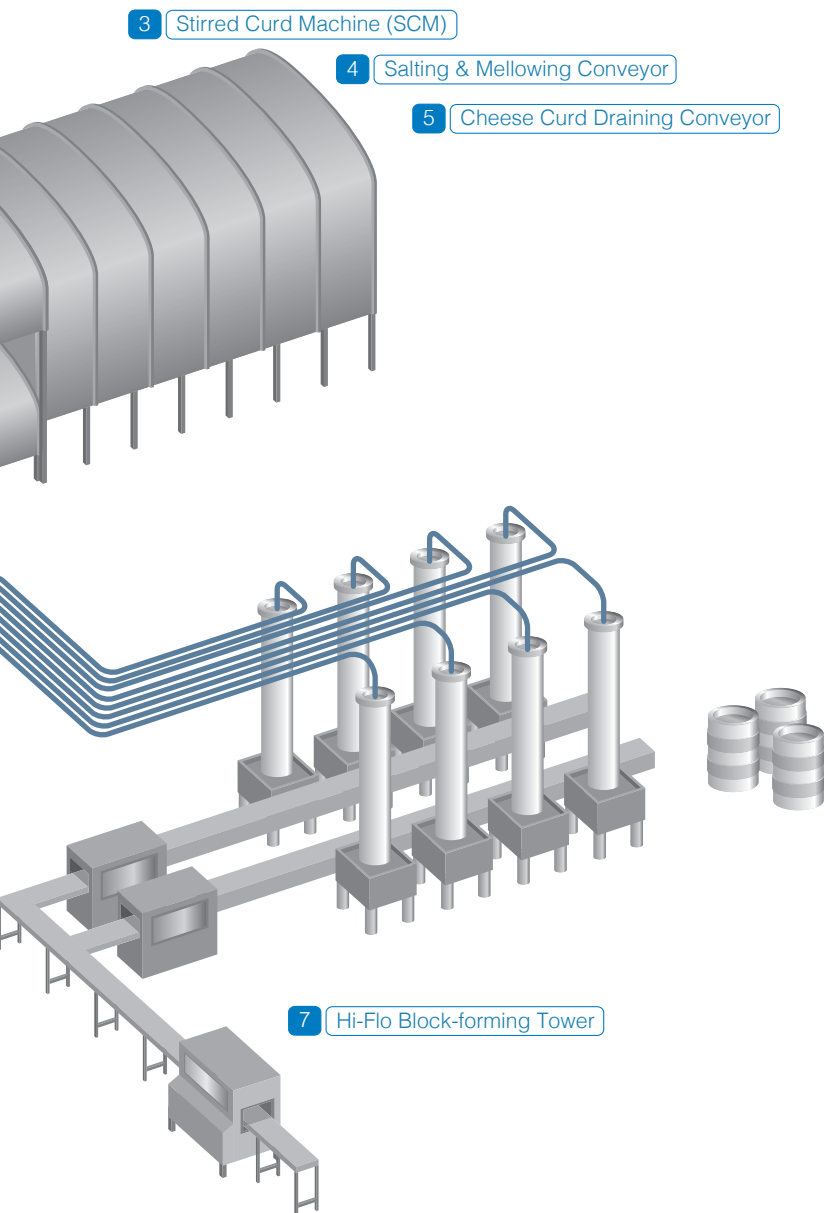






	A	B	C	D	E	F	G	H
	Corrosion Resistant	Hygienic Design	Heat Resistant	Fluids	Electric Actuators	Big Actuators	Electrostatic Removal	Standard Components
	►P.8	►P.9	►P.9	►P.10	►P.11	►P.11	►P.11	
1 Milk Pre-Treatment	■	■	■	■				
2 Microfiltration	■	■		■				
3 Curd-Preparation	■	■	■	■				
4 Filling	■	■						■
5 Capping Machine	■	■						■
6 Pressing	■	■				■		
7 Cap Removal	■	■				■		
8 Mould Removal	■	■				■		
9 Mould Cleaning	■	■		■				
10 Brining	■	■						
11 Ripening	■	■						
12 Cutting	■	■						
13 Packing	■	■	■				■	■
14 Labelling							■	■
15 Palletising					■			■
17 Cleaning in place (CIP)	■		■	■				■





	A	B	C	D	E	F	G	H
	Corrosion Resistant	Hygienic Design	Heat Resistant	Fluids	Electric Actuators	Big Actuators	Electrostatic Removal	Standard Components
	▶P.8	▶P.9	▶P.9	▶P.10	▶P.11	▶P.11	▶P.11	
1 Cleaning in Place (CIP System)	■	■	■	■	■	■	■	■
2 Horizontal Cheese Val (HCV)	■			■				■
3 Stirred Curd Machine (SCM)	■			■				■
4 Salting & Mellowing Conveyor	■	■		■				■
5 Cheese Curd Draining Conveyor	■					■		■
6 Rotary Cowl	■			■				■
7 Hi-Flo Block-forming Tower	■	■		■		■		■

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)**



■ 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**

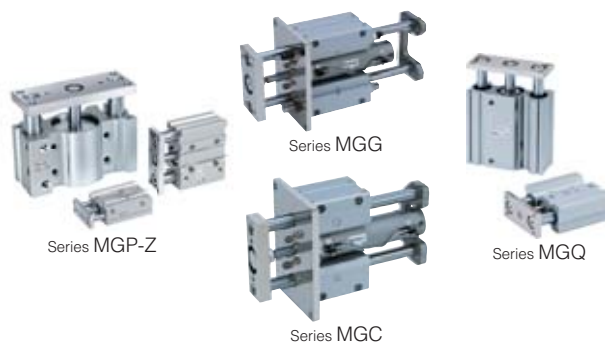
XC4 With heavy duty scraper
XC6 Piston Rod and Rod End Nut Made of Stainless Steel



■ 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

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



A Corrosion Resistant

■ 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)**



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)**
- Fluoropolymer Tubing (PFA) **Series TLM/TILM (max. 260°C)**



■ Fitting and Tubing

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



■ Guide Cylinder

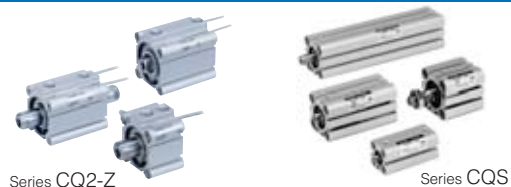
- Compact Guide Cylinder **Series MGP-Z-XB6 (-10~+150°C)**



C Heat Resistant

■ Standard Air Cylinder (Compact Style)

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



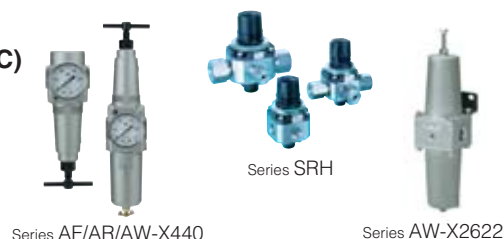
■ Specialty Cylinder

- 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**



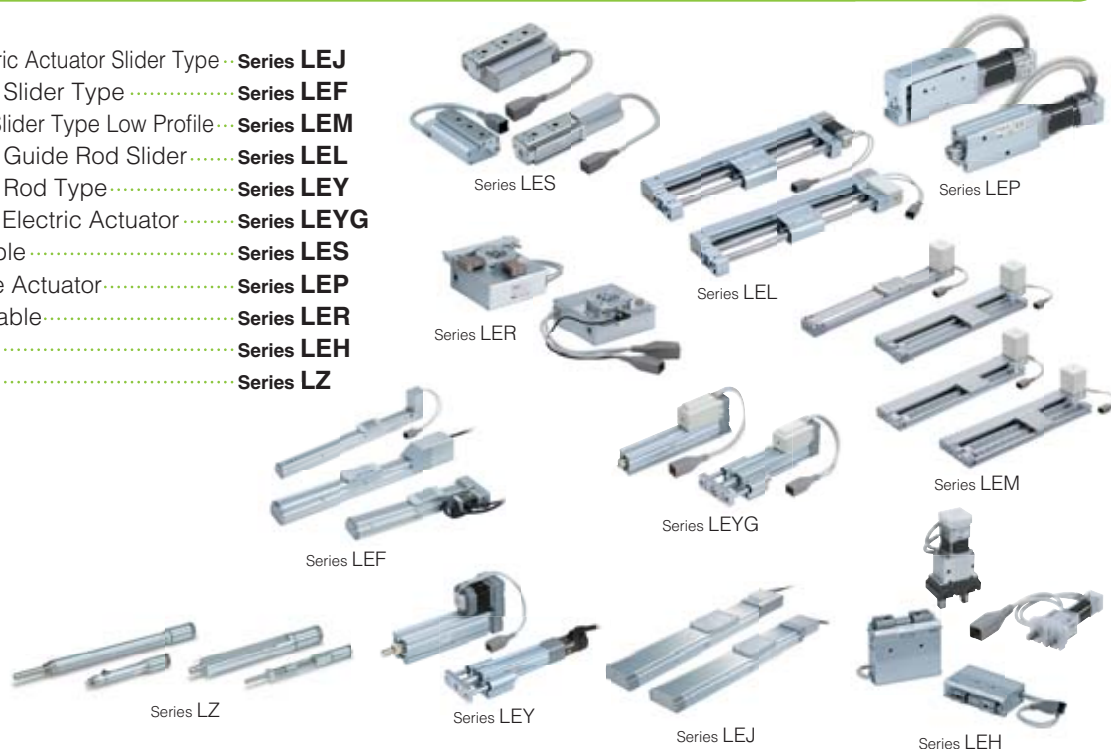
■ Fluoropolymer

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



E 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 **LEYG**
- Electric Slide Table.....Series **LES**
- Electric Miniature Actuator.....Series **LEP**
- Electric Rotary Table.....Series **LER**
- Electric Grippers.....Series **LEH**
- Electric Cylinder.....Series **LZ**



F 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**



G Electrostatic Removal

■ Ionisers

- 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**





SMC CORPORATION (Europe)

Austria	☎ +43 (0)2262622800	www.smc.at	office@smc.at
Belgium	☎ +32 (0)33551464	www.smc-pneumatics.be	info@smc-pneumatics.be
Bulgaria	☎ +359 (0)2807670	www.smc.bg	office@smc.bg
Croatia	☎ +385 (0)13707288	www.smc.hr	office@smc.hr
Czech Republic	☎ +420 541424611	www.smc.cz	office@smc.cz
Denmark	☎ +45 70252900	www.smc.dk.com	smc@smc.dk.com
Estonia	☎ +372 6510370	www.smc-pneumatics.ee	smc@smc-pneumatics.ee
Finland	☎ +358 207513513	www.smc.fi	smc.fi@smc.fi
France	☎ +33 (0)164761000	www.smc-france.fr	info@smc-france.fr
Germany	☎ +49 (0)61034020	www.smc.de	info@smc.de
Greece	☎ +30 210 2717265	www.smc-hellas.gr	sales@smc-hellas.gr
Hungary	☎ +36 23511390	www.smc.hu	office@smc.hu
Ireland	☎ +353 (0)14039000	www.smc-pneumatics.ie	sales@smc-pneumatics.ie
Italy	☎ +39 0292711	www.smc-italia.it	mailbox@smc-italia.it
Latvia	☎ +371 67817700	www.smc.lv	info@smc.lv

Lithuania	☎ +370 5 2308118	www.smc.lt	info@smc.lt
Netherlands	☎ +31 (0)205318888	www.smc-pneumatics.nl	info@smc-pneumatics.nl
Norway	☎ +47 67129020	www.smc-norge.no	post@smc-norge.no
Poland	☎ +48 222119600	www.smc.pl	office@smc.pl
Portugal	☎ +351 226166570	www.smc.eu	postpt@smc-smces.es
Romania	☎ +40 213205111	www.smc-romania.ro	smcromania@smcromania.ro
Russia	☎ +7 8127185445	www.smc-pneumatik.ru	info@smc-pneumatik.ru
Slovakia	☎ +421 (0)413213212	www.smc.sk	office@smc.sk
Slovenia	☎ +386 (0)73885412	www.smc.si	office@smc.si
Spain	☎ +34 902184100	www.smc.eu	post@smc-smces.es
Sweden	☎ +46 (0)86031200	www.smc.nu	post@smc.nu
Switzerland	☎ +41 (0)523963131	www.smc.ch	info@smc.ch
Turkey	☎ +90 212 489 0 440	www.smc-pneumatik.com.tr	info@smc-pneumatik.com.tr
UK	☎ +44 (0)845 121 5122	www.smc-pneumatics.co.uk	sales@smc-pneumatics.co.uk

CHE-01B-UK