



SMC - Experts in the Pulp and Paper 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 Pulp & Paper 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.

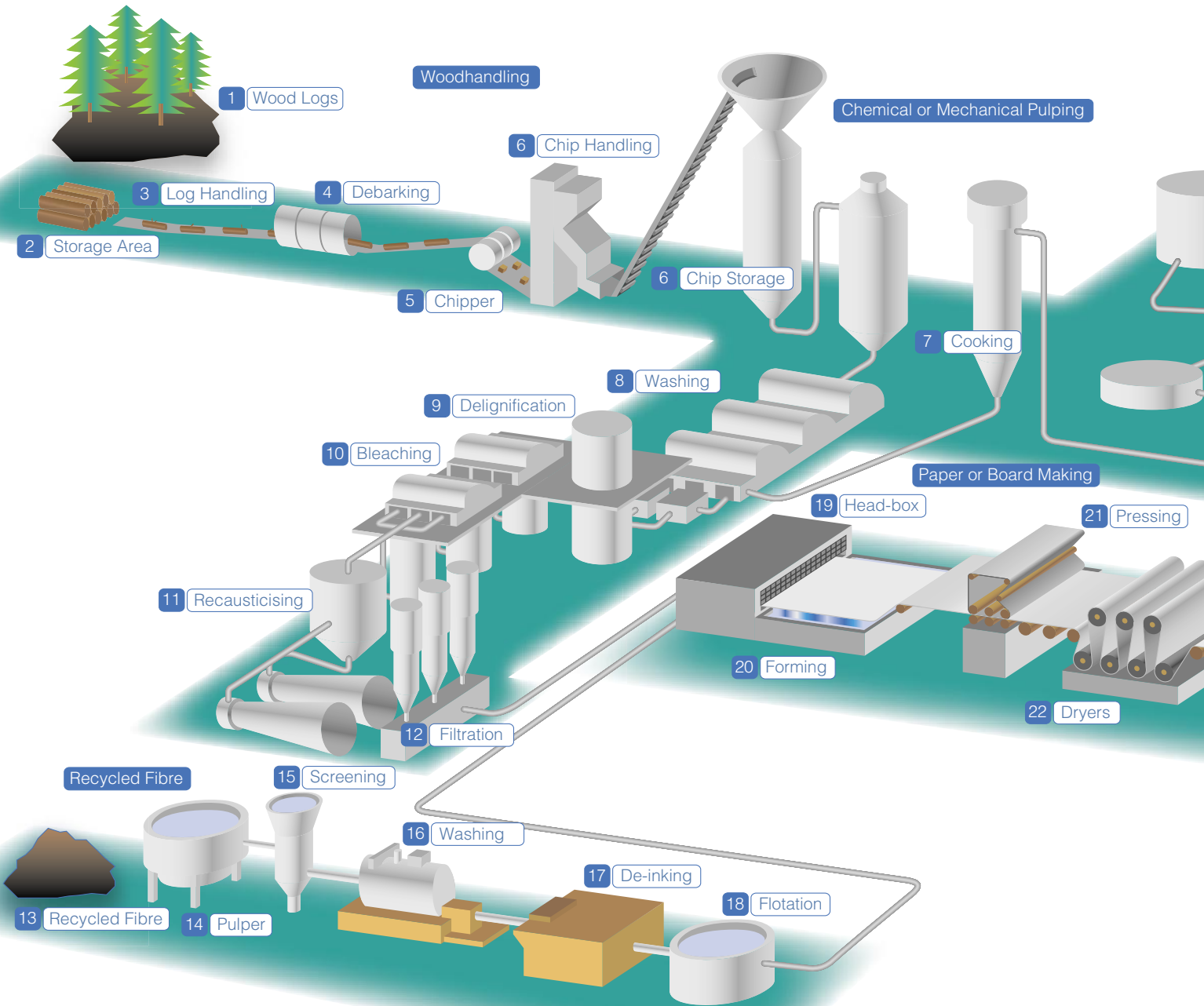
For this reason alone, we have developed specialist teams to work in all the major manufacturing industries throughout the world – our Industry Experts.

In the case of the Pulp and Paper 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, high speed 24/7 operation including both high temperature and wet environment in your production processes.

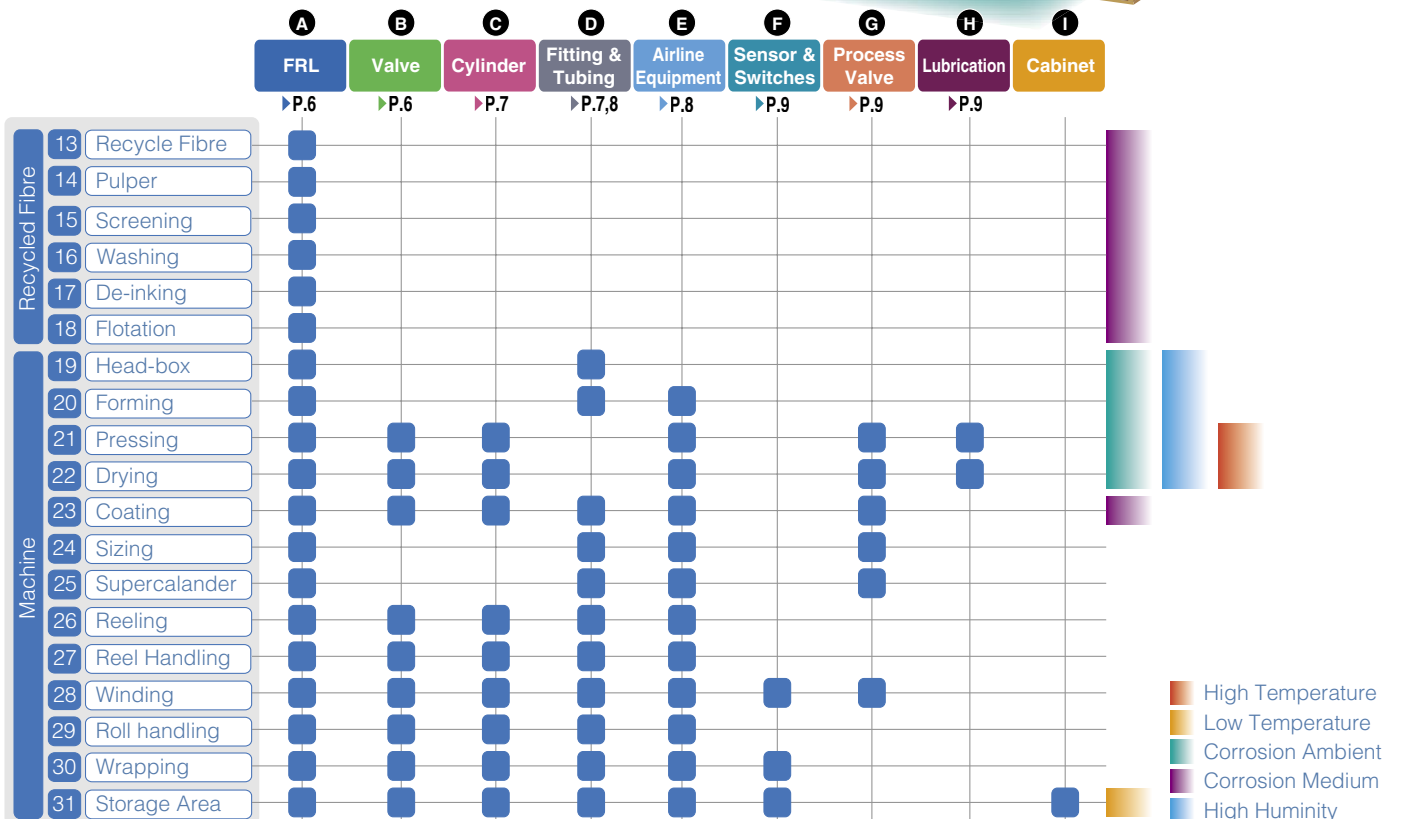
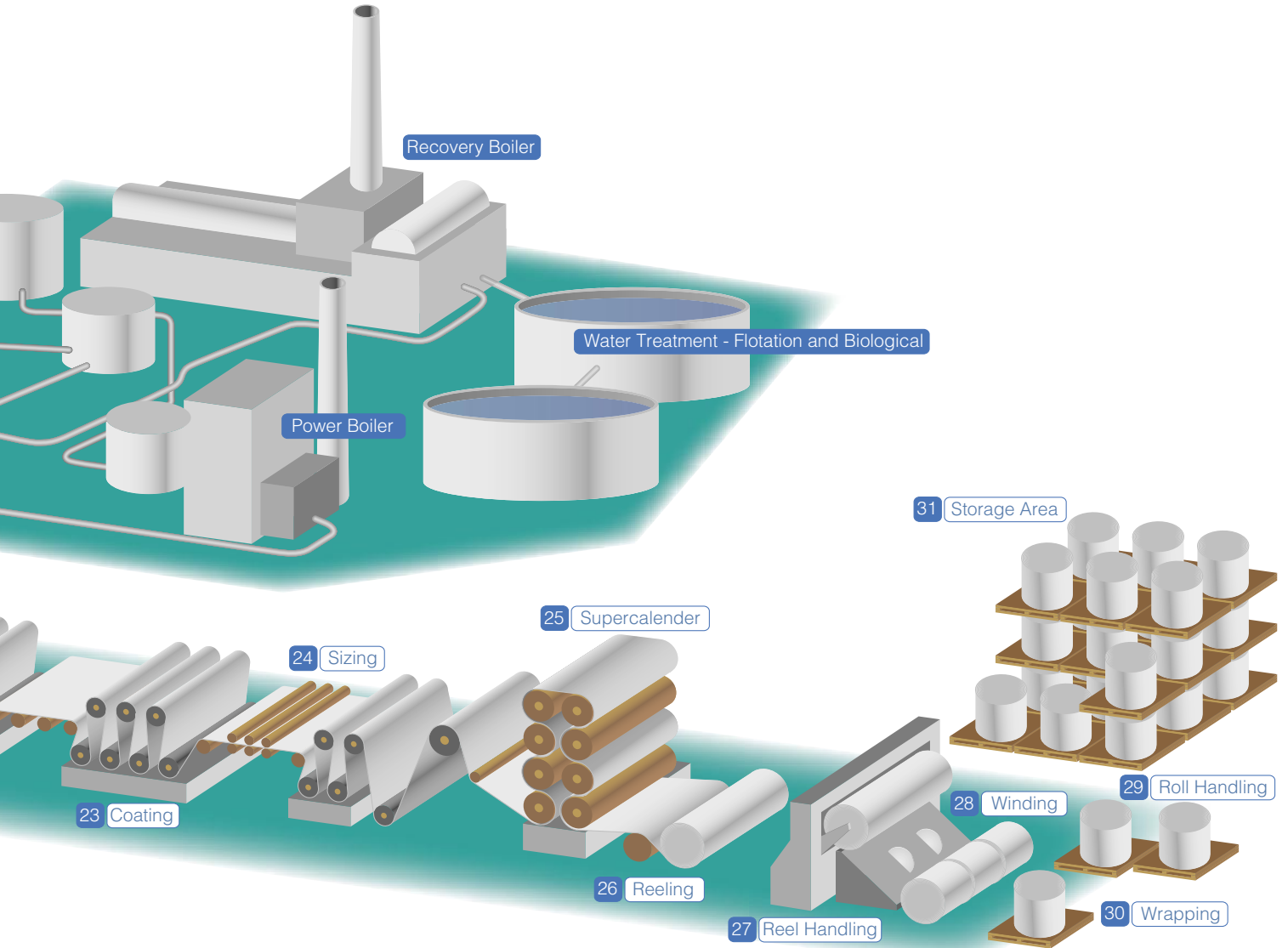
Our experts recognise that maximum operator health and safety is a MUST and with energy costs increasing at an alarming rate, even the smallest saving can have a real impact on a business's bottom line as well as the environment.





	A	B	C	D	E	F	G	H	I
FRL	▶P.6	▶P.6	▶P.7	▶P.7,8	▶P.8	▶P.9	▶P.9	▶P.9	
Valve									
Cylinder									
Fitting & Tubing									
Airline Equipment									
Sensor & Switches									
Process Valve									
Lubrication									
Cabinet									

	1	2	3	4	5	6	7	8	9	10	11	12
Woodhandling												
Chemical/Mechanical Pulping												
1	Wood Logs											
2	Storage Area											
3	Log Handling	■	■	■	■	■						
4	Debarking	■										
5	Chipper	■	■	■	■	■						
6	Chip Handling/Storage	■										
7	Cooking	■	■		■	■	■					
8	Washing	■										
9	Delignification	■										
10	Bleaching	■										
11	Recausticising	■										
12	Filtration	■										



A FRL

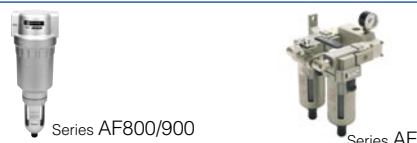
■ Pressure Control Equipment

- Precision Regulator **Series IR1000/2000/3000**
- Miniature Regulator **Series ARJ**
- Regulator Manifold **Series ARM**
- Compact Manifold Regulator **Series ARM5**
- **Series ARM10/11**
- Direct Operated Precision Regulator ... **Series ARP20/30/40**
- Regulator for 2MPa **Series ARX20**
- Precision Clean Regulator **Series SRP**



■ Filter

- Large Flow Air Filter **Series AF800/900**
- 5 Port Solenoid Valve **Series VF**
- ByPass Filter **Series AF**



■ Soft Start-up Valve

- Soft Start-up Valve **Series AV2000/3000/4000/5000**



■ All Air System Equipment

- Pressure Relief 3 Port Valve with Locking Hole **Series VHS**



■ Modular FRL Combination

- Regulator and Filter Regulator with Built-in Pressure Gauge **Series ACG/ARG/AWG**



■ Separator

- Compressed Air Cleaning Filter Series **Series AM/AFF**
- Micro-Mist Separator **Series AFM/AFD**



B Valves

■ 5 Port Solenoid Valve

- Metal Seal **Series VFS**
- Connector Type Manifold **Series VQC1000/2000/4000**
- Rubber Seal **Series VF**
- Manifold with individual stop valves **Series VV5FS2**



■ Serial Transmission System

- Gateway Unit **Series EX500**
- Serial Transmission Kit **Series EX600**



■ Power Valve/Silencer

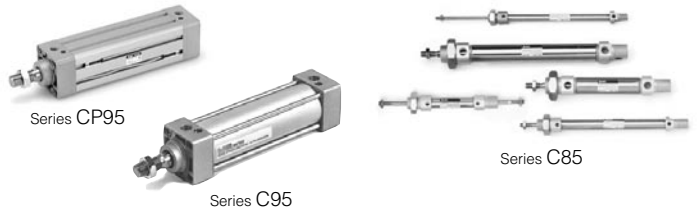
- Silencer **Series AN/ANA1/ANB1**
- Power Valve **Series VEX**



C Cylinder

Standard Air Cylinder

- ISO Cylinder **Series CP95**
- ISO/VDMA Cylinder **Series C95**
- ISO Cylinder **Series C85**



Guide Cylinder

- Compact Guide Cylinder **Series MGP**
- Linear Transfer Unit **Series MGG**



Standard Air Cylinder (Compact Style)

- Compact Cylinder **Series CQ2**
- Compact Cylinder/Guide Rod Type **Series CQM**
- Compact Cylinder **Series CQS**
- Compact Cylinder Plate Type **Series CQU**



Specialty Cylinder

- Stainless Steel Cylinder **Series CG**



D Fitting & Tubing

General Purpose Fittings

- One-touch Fittings with G Type Connection Threads **Series KQ2**
- S Couplers **Series KK**
- Multi-Connector with One-Touch Fittings **Series DMK**
- Rectangular Multi-Connector **Series KDM**



Special Environments Fittings

- Stainless Steel 316 One-touch Fittings **Series KQG**
- Stainless Steel 316 Insert Fittings **Series KFG**



■ Fittings and Tubing

- Nylon Tubing..... **Series T**
- Soft Nylon Tubing..... **Series TS/TISA**
- High Fluoropolymer Tubing..... **Series TL**
- FEP Tubing (Fluoropolymer)..... **Series TH**
- Soft Fluoropolymer Tubing..... **Series TD/TID**



■ Related Products

- Tube Cutter..... **Series TK**
- Blow Gun..... **Series VMG**



■ Inch-size Fitting

- Inch-size One-touch Fitting Manifold..... **Series KM**



E Airline Equipment

■ Flow Control Equipment

- Speed Controller..... **Series AS**
- Stainless Speed Controller..... **Series ASG**
- Metering Valve with Silencer..... **Series ASN2**
- Quick Exhaust Valve..... **Series AQ**
- Safety Speed Control Valve..... **Series ASS**
- Air Saving Valve..... **Series ASR-ASQ**
- Speed Controller with Pilot Check Valve..... **Series ASP**
- Check Valve..... **Series AK**



■ Air Preparation Equipment

- Membrane Air Dryer..... **Series IDG**
- Refrigerant dryers..... **Series IDF/IDU**



■ Pressure Control Equipment

- Regulator/Booster..... **Series VBA**
- Air Tank..... **Series VBAT**



F Sensor & Switches

■ Vacuum System Peripheral and Related Products

- Electro-Pneumatic Regulator **Series ITV**



■ Digital Flow Switch

- 2-Colour Display Digital Flow Switch..... **Series PFM**
- Digital Flow Switch For Air..... **Series PF2A**



Series PFM



Series PF2A

■ Pressure Gauge

- Compact Manometer..... **Series PPA**



■ Mechanical Pressure Switch

- General Purpose Pressure Switch..... **Series ISG**



■ Digital Pressure Switch

- 2-Colour Display Digital Pressure Switch..... **Series IS70/75/75H**



G Process Valve

■ Process Valve

- Pilot Operated 2 Port Solenoid Valve **Series VXD**
- 2 Port Solenoid Valve For Dust Collector **Series VXF**



Series VXD



Series VXF

H Lubrication

- Jet Lube **Series ALD/ALDU**
- Impulse Lubricator..... **Series ALIP**
- Impulse Lubricator Manifold **Series ALIM**
- Auto Feed Lube **Series ALF**



Series ALD/ALDU



Series ALIP



Series ALIM



Series ALF

Special Products For Industrial Applications

Filter

Industrial Filter

- Filter for Cleaning Solvent **Series FQ1**
- Low Maintenance Filter **Series FN1/FN4**
- Clean Regulator **Series SRH**
- Vessel Series **Series FG**



Series FQ1



Series FN1/FN4



Series SRH



Series FG

Temperature Control

Chillers

- Refrigerated Thermo Cooler **Series HRG**
- Thermo Chiller **Series HRZ**



Series HRG



Series HRZ

Static Control

Antistatic Equipment

To prevent an electrical charge due to conductance and to reduce problems caused by the build-up of static electricity.

Actuators

- Antistatic Cylinder **Series CM2-X1051**

Fittings & Tubing

- Antistatic One-touch Fittings **Series KA**
- Antistatic Tubing **Series TA**

Flow Control Equipment

- Antistatic Speed Controller **Series AS-X260**

Vacuum Products

- Vacuum Pads **Series ZP**



Series KA



Series TA

Ionizers

Corona effect used to neutralize ions and eliminate the build up of static electricity.

- Ionizer (Bar) **Series IZS**
- Ionizer (Nozzle) **Series IZN**



Series IZS



Series IZN

Measuring Instruments

Measures the electrical charge potential of the workpiece.

- Electrostatic Sensor/Monitor **Series IZD/IZE**
- Handheld Electrostatic Meter **Series IZH**



Sensor



Monitor
Series IZD/IZE

Industry Related Products

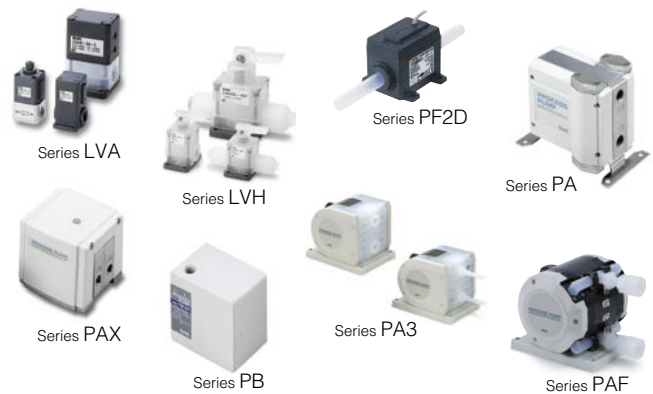
Hydraulics Products

- Compact Hydraulic Cylinder..... **Series CHKGB**
- Round Type Low Pressure Hydraulic Cylinder... **Series CHM**
- Hydraulic Cylinder 7MPa Nominal Pressure... **Series CHN**
- Tie-rod Type Hydraulic Cylinder..... **Series CHA**
- Hydraulic Cylinder (Conforms to ISO)..... **Series CHSG**
- Vertical Suction Filter..... **Series FHIA**
- Suction Filter with Case..... **Series FH990**
- Suction Guard..... **Series FHG**
- Line Filter..... **Series FH34/44/54/64**
- Vertical Return Filter..... **Series FHBA**
- Return Filter..... **Series FH100**
- Oil Filter..... **Series FH150**
- Magnetic Separator..... **Series FHM**
- Oil Cooler: Iron particle type..... **Series HOWF**
- Oil Cooler: Cooper particle type..... **Series HOW**



Chemical Resistant Products

- Threaded Ports..... **Series LVA**
- Manual Operation..... **Series LVH**
- For De-ionised Water and Chemicals... **Series PF2D**
- Process Pump..... **Series PA**
- Process Pump Automatically Operated Type with Built-in Pulsation Attenuator... **Series PAX**
- Process Pump Built-in Solenoid Valve Type/Air Operated Type (External Switching Type)..... **Series PB**
- Process Pump Fluororesin Type..... **Series PA3**
- Process Pump Fluororesin Type..... **Series PAF**



Positioners

- Electro-Pneumatic Positioner..... **Series IP8000/8100**
- Round Type Low Pressure Hydraulic Cylinder... **Series IP200**



SMC and Advanced Pressure Technology (APTech)

In spring 2007, SMC Corporation Japan purchased Advanced Pressure Technology – better known as AP-Tech - from its directors.

Based in Napa, California, USA, AP-Tech was founded in the late 1980's by Rene Zakhour. Rene's objectives were to provide products with uncompromising quality, performance and reliability from a company offering exceptional service and technical support – almost identical values to those which SMC has based its successful approach to business.

From July 2008, our European customers can now purchase directly from SMC, AP-Tech's excellent range of high quality products made exclusively for both the PV and Semiconductor Industries.

These include a great range of High Purity Gas Regulators which are made, tested and packaged in ultra high clean room conditions, thereby ensuring excellent levels of quality (ISO 9001 standard).

If you'd like more information of AP-Tech products ask your local representative for more information today.





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