



FLUID CONTROL IN THE PROCESS INDUSTRY

**SMC – YOUR PARTNER FOR TAILORED
AUTOMATION SOLUTIONS**

YOUR AUTOMATION PARTNER



SMC – YOUR EXPERT PARTNER IN THE PROCESS INDUSTRY

Your satisfaction is our goal.



Virtually all production processes use fluids.

Whether it's compressed air for cleaning filters, or using water in a bakery, or for steam lines in textile dye works, or using coolants in gear manufacturing, or polishing suspensions (slurry) in wafer processing, the list is endless.

We can make the preparation, monitoring and control of fluids in your process as simple and efficient as possible. From individual components to customised specials, or even complete turn-key solutions we have the answers to help meet all your needs.

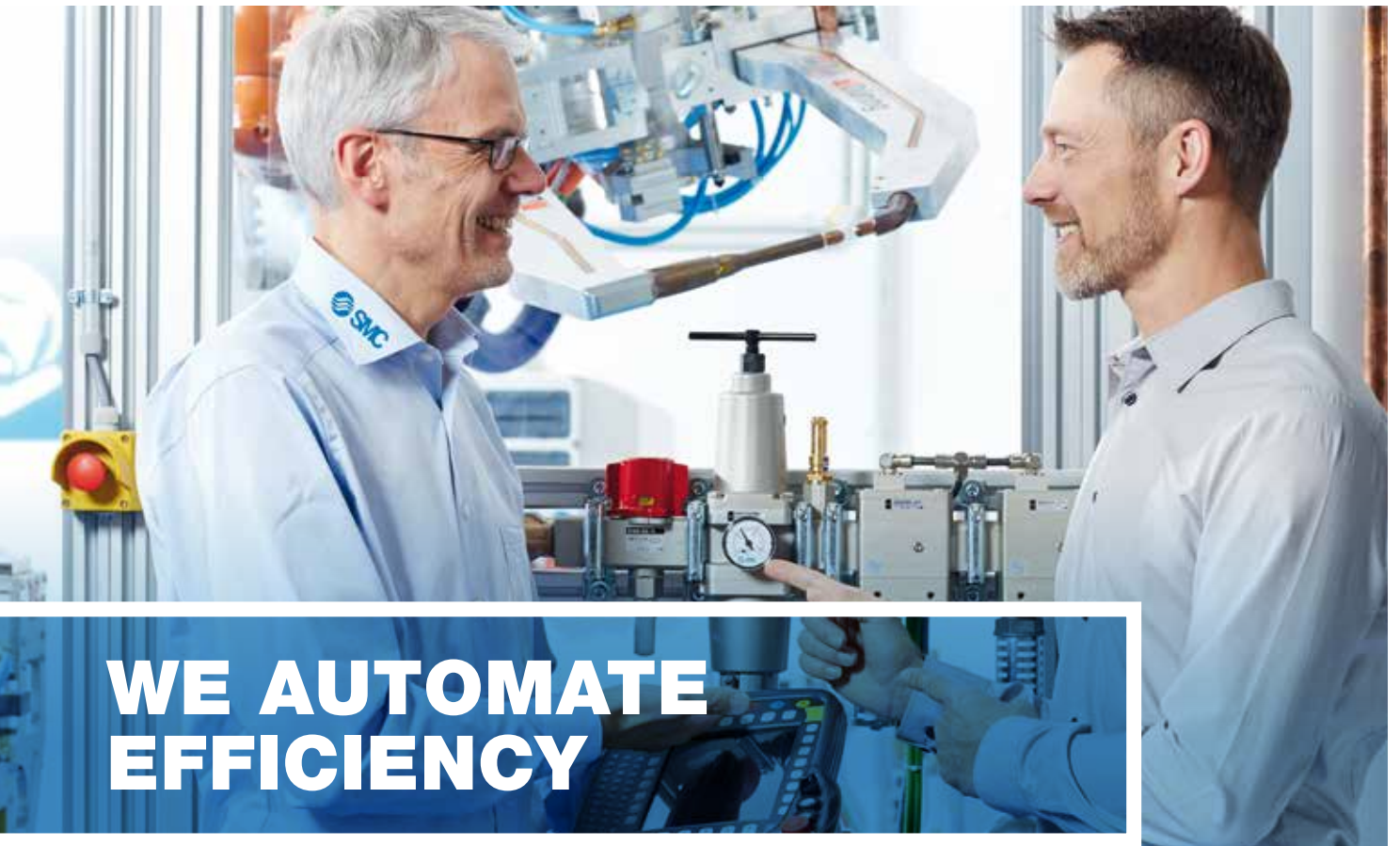
With SMC you just need to install and forget – thanks to outstanding reliability and cost effective life time performance.

SMC has specialised in factory automation for over 50 years and is the leading provider of pneumatic and electric components to the mechanical engineering sector. Automation is our passion.

We have been providing components to the process industry for many years. From extracting gas in Siberia, brewing beer in Germany or mining bauxite in Australia, SMC has over 8,000 high-qualified sales personnel in 82 countries to help support you throughout the world. Let SMC be your process automation partner – from development through to sales.



SMC is there for you around the world!



WE AUTOMATE EFFICIENCY

reduced **ENERGY USE**
optimised **PROCESSES**
innovative **TECHNOLOGIES**

With us, intelligent savings begin as early as construction.
Many SMC products are based on ground-breaking and energy-efficient technologies.
This means that we give your production the potential to make optimal use of energy.

Join us in shaping the automation solutions of the future!

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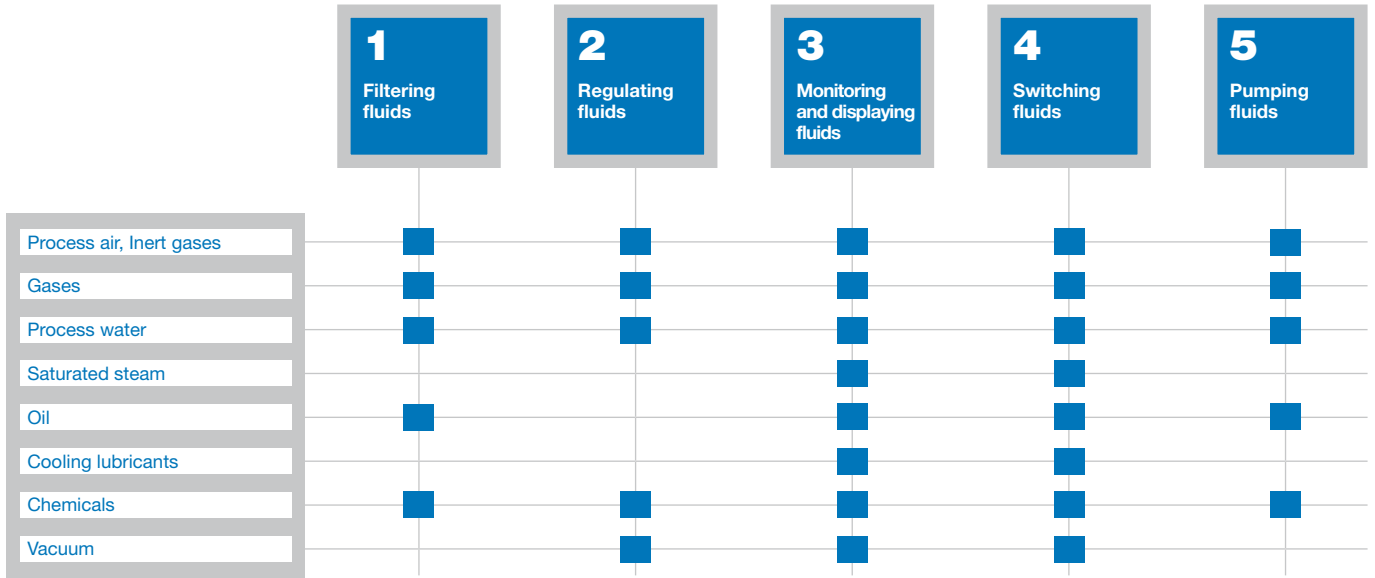
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FLUID CONTROL

Your requirements drive us





More than 1,400 SMC development engineers around the world are constantly reviewing our products to ensure cutting edge performance. Our high quality components make the treatment, monitoring and control of all fluids in your processes safer, more energy efficient, and less labour intensive.










FILTERING FLUIDS

Suitable components for your application

Products	Fluids	
<p>Industrial filters for coolant and process water</p> <p>> Low-maintenance filters with rinsing function: FN1/FN4 series</p>		<p>Process water</p>
<p>From pure water to hydraulic fluid</p> <p>> Stainless steel microfilters for fluids: FGH series</p>		<p>Process water Chemicals</p>
<p>Quick-change filters to switch filter elements without any tools</p> <p>> Stainless steel filters for water, cleaning fluids and lyes: FQ1 series</p>		<p>Process water Chemicals</p>
<p>Universal industrial filters</p> <p>> Boiler filters for fluids and gases: FG# series</p>		<p>Process air, Inert gases Gases Process water</p>

<p>Hydraulic filters</p> <p>> From low pressure to 210 bar gauge pressure: FH# series</p>		<p>Oil</p>
<p>Filtering clear air or nitrogen in the clean room</p> <p>> With changeable filter element: SFA/SFB/SFD10# series</p> <p>> Disposable filter: SFB3/SFC/SFD100 series</p>	 <p>SFD series</p>	<p>Process air, Inert gases Gases</p>
<p>High-quality air treatment including odour filtration</p> <p>> Main line filter: AFF/AM# series</p> <p>> Filter controller for pneumatics: AW series</p>	 <p>AM series</p>	<p>Process air, Inert gases</p>
<p>Filtering and precise control of instruments</p> <p>> Filter controllers for instrumentation: IW series</p>		<p>Process air, Inert gases</p>
<p>Tailored solutions for harsh environments</p> <p>> Stainless steel filter controllers for temperatures from -40 to +80 °C: AW-X2622 series</p> <p>> Stainless steel filters for temperatures from -40 to +80 °C: AF-X2622 series</p> <p>> Copper and fluoride-free filter controllers: 20-AW series</p>	 <p>AW-X2622 series</p>	<p>Process air, Inert gases</p>

REGULATING FLUIDS


Suitable components for your application

Products		Fluids
<p>Air pressure regulator</p> <ul style="list-style-type: none"> > Stainless steel pressure controllers for temperatures from -40 to +80 °C: AR-X2622 series > Stainless steel clean room controller: SRH series > Stainless steel precision pressure controller for clean rooms: SRP series 	 <p>SRH series</p>	<p>Process air, Inert gases Gases Process water</p>
<p>Electro-pneumatic regulator</p> <ul style="list-style-type: none"> > Electropneumatic pressure regulator valves E/P converter: ITV series > Electropneumatic pressure regulator valves E/P converter, explosion-proof: ITV2000-X430 series > High pressure version: ITVX series 	 <p>ITV series</p>	<p>Process air, Inert gases Gases</p>
<p>Pressure regulator for fluids</p> <ul style="list-style-type: none"> > Water regulator: WR110 series > Stainless steel manual pressure regulator for water and pure water: SRH/INA-48 series > Pneumatically-controlled pressure regulators for chemicals and high-purity fluids: SRF series 	 <p>WR110 series</p>	<p>Process water Chemicals</p>
<p>Control cleanest gases manually (UHP-Ultra High Purity)</p> <ul style="list-style-type: none"> > Single-stage pressure regulator with up to 310 bar inlet pressure: AP/AZ1#00/9#00 series > Two-stage pressure regulator with up to 310 bar inlet pressure: AP#700 series > Compact pressure regulator with up to 10 bar inlet pressure: AP500/SL5200 series > Single-step springless pressure regulator with up to 241 bar inlet pressure: SL5#00 series 	 <p>AP series</p>	<p>Gases Vacuum</p>
<p>Control pure gases and high pressures in industrial applications manually</p> <ul style="list-style-type: none"> > Single-stage pressure regulator with up to 310 bar inlet pressure: AK1#00/9200 series > Two-stage pressure regulator with up to 310 bar inlet pressure: AP1700 series > Pressure regulator with up to 690 bar inlet pressure: KT10/KT12 series 	 <p>AK series</p>	<p>Process air, Inert gases Gases Vacuum</p>
<p>Regulate gases pneumatically</p> <ul style="list-style-type: none"> > For UHP applications with up to 241 bar inlet pressure: AP/AZ1#PA, AP9#PA series > For industrial applications with up to 241 bar inlet pressure: AK1#PA series > For maximum pressures up to 690 bar inlet pressure: KT1#2 series 	 <p>AK series</p>	<p>Process air, Inert gases Gases</p>

MONITORING AND DISPLAYING FLUIDS

Suitable components for your application

Products		Fluids
<p>Pressure sensor with 2-colour indicator: Electronic, precise, switching or analogue output</p> <ul style="list-style-type: none"> > Vacuum or overpressure up to 10 bar: ISE/ZSE30A series > Precision pressure sensor up to 10 bar: ISE/ZSE20 series > Vacuum or overpressure up to 10 bar, Protection class IP65: ISE/ZSE40A series > Vacuum or overpressure up to 20 bar, restive membrane, Protection class IP65: ISE/ZSE80 series 	 <p>ISE40A series with M8</p>	Process air, Inert gases Process water Oil Chemicals Vacuum
<p>Pressure sensor with display: Compact, electronic, precise, switching or analogue output</p> <ul style="list-style-type: none"> > Narrow form factor, vacuum up to 10 bar overpressure: ISE/ZSE10 series 		Process air, Inert gases Gases
<p>Pressure sensor with display: Robust, electronic, precise switching output</p> <ul style="list-style-type: none"> > Metal casing, watertight (IP67), up to 10 bar overpressure: ISE70 series > Metal casing, watertight (IP67), up to 150 bar overpressure: ISE75H series 	 <p>ISE75H series</p>	Process air, Inert gases Gases Process water Oil Chemicals
<p>Monitoring pressure: Compact and plug-in, switching output</p> <ul style="list-style-type: none"> > Miniature pressure switch, vacuum up to 10 bar overpressure: PS1#00 series 		Process air, Inert gases Gases Vacuum

<p>Pressure sensor without display</p> <ul style="list-style-type: none"> > More compact, analogue pressure sensor, vacuum or overpressure up to 100 bar: PSE5# series > Differential pressure sensor, 0 to 20 mbar: PSE550 series > Splash-roof (IP65) pressure sensor Vacuum to 10 bar: PSE560 series > Splash-roof (IP65) pressure sensor with M12 plug, Vacuum to 10 bar: PSE570 series 	 <p>PSE570 series</p>	<p>Process air, Inert gases Process water Oil Chemicals Vacuum</p>
<p>Read out and display sensor values</p> <ul style="list-style-type: none"> > Display for up to four external sensors, switching output: PSE200 series > Display for one external sensor, switching and analogue output: PSE300 series 	 <p>PSE200 series</p>	
<p>Monitoring pressure</p> <ul style="list-style-type: none"> > Mechanical pressure switch for pressurised air: IS3000 series > Compact mechanical pressure switch for pressurised air: IS10 series > Robust mechanical pressure switch for gases and fluids: ISG series 	 <p>ISG series</p>	<p>Process air, Inert gases Process water Saturated steam Oil Chemicals Vacuum</p>
<p>Displaying pressure</p> <ul style="list-style-type: none"> > Manometer with limit value display: G36/46 series > Differential pressure manometer: GD40 series 		<p>Process air, Inert gases</p>
<p>Measuring the flow of air and gas</p> <ul style="list-style-type: none"> > Minimal flow rates up to 3 l/min, external display: PFMV series > Flow range up to 100 l/min, internal display: PFM7 series > Flow range up to 100 l/min, external display: PFM5 series > Flow range up to 2,000 l/min, internal display: PFMB7 series > Flow range up to 2,000 l/min, two-line display: PFMC series > Flow range up to 12,000 l/min, internal display: PF2A7 series > Flow range up to 500 l/min, external display: PF2A5 series 	 <p>PFMC series</p>	<p>Process air, Inert gases Gases</p>

<p>Monitoring the flow of ultra-pure gases (UHP – Ultra High Purity)</p> <p>> Flow switch for up to 6,000 slpm (pressures up to 267 bar): AP74 series</p>		Gases
<p>Measuring the flow rate of water</p> <p>> Flow range up to 250 l/min, for water, internal display: PF3W7 series</p> <p>> Flow range up to 250 l/min, for water, external display: PF3W5 series</p>	 <p>PF3W7 series</p>	Process water
<p>Measuring the flow rate of purified water and low-viscosity chemicals</p> <p>> Flow range up to 250 l/min, PVC/PPS/FKM, internal display: PF3W7##-U series</p> <p>> Flow range up to 250 l/min, PVC/PPS/FKM, external display: PF3W5##-U series</p> <p>> Flow range up to 40 l/min, PFA, external display: PF2D5 series</p>	 <p>PF2D5 series</p>	Process water Chemicals
<p>Measuring the flow rate of conductive (even contaminated) fluids</p> <p>> Flow range up to 200 l/min, brass/PPS/FKM, internal display: LFE#A/B/C/D series</p> <p>> Flow range up to 200 l/min, brass/PPS/FKM, external display: LFE#J/K series</p> <p>> Flow range up to 200 l/min, SUS304/PPS/EPDM e.g. for sodium hydroxide 50%: LFE-X19 series</p>		Process water, Chemicals
<p>Read out and display sensor values</p> <p>> Display for one PF3W5, switching and analogue output: PF3W3 series</p> <p>> Display for up to four PF2D5s, switching output: PF2D2 series</p> <p>> Display for one PF2D5, switching output: PF2D3 series</p> <p>> Display for one LFE#J/K, switching and analogue output: LFE0 series</p>	 <p>PF3W3 series</p>	

Mechanically monitoring flow rate

- > Flow rate switch with membrane design, bronze/brass/NBR: **IFW5** series
- > Low rate switch with paddle design for installation in pipes: **IF3** series



IF3 series

Process water
Oil
Cooling lubricant
Chemicals

Monitor, regulate, switch, throttle and filter in a modular and compact way

- > Pure air module for pressurised air and N₂: **LLB** series



Process air,
Inert gases
Gases

Monitoring and regulating




- > Variably regulate water flow rate electrically: **FC2W** series
 - linear, high-precision, flow rate regulation,
 - long-lasting
 - non-grease version



Process water

SWITCHING FLUIDS

Suitable components for your application

Products	Fluids	
<p>Switching standard fluids on and off</p> <ul style="list-style-type: none"> > Compact, directly-actuated solenoid valve, 1 to 3.2 mm nominal size: VDW series > Directly-actuated solenoid valve, 2 to 10 mm nominal size: VX2 series > Pilot-controlled 2-port 2-position solenoid valve without minimum differential pressure, 10 to 25 mm nominal size: VXZ series > 2-port 2-position process valve for flow rate regulation, pneumatically-actuated, available with integrated pilot solenoid, 7 to 50 mm nominal size: VNB series 	 <p>VNB series</p>	<p>Process air, Inert gases Process water Oil Vacuum</p>
<p>Reducing pressure loss and leaks</p> <ul style="list-style-type: none"> > Pneumatically-actuated slanted seat valve, 11 to 18 mm nominal size: VXB series 		<p>Process air, Inert gases Process water Saturated steam</p>
<p>Valves for pressurised air</p> <ul style="list-style-type: none"> > Lightweight 2-port 2-position solenoid valve for particularly dry air: VQ20/30 series > 2-port 2-position and 3-port 2-position solenoid valves for pressures up to 50 bar: VCH series > 2-port 2-position solenoid valve for filter cleaning: VXF series > Pneumatically-actuated 2-port 2-position valve for filter cleaning: VXFA series > High Speed 2-port 2-position blowing valve, direct solenoid actuation: SX10/XT311 series > High Speed 3-port 2-position blowing valve, direct solenoid actuation: XT312/212 series 	 <p>VXF series</p>	<p>Process air, Inert gases</p>

Valves for saturated steam

- > Directly-actuated 2-port 2-position solenoid valve **VX2#5** series
- > Force pilot actuated 2-port 2-position solenoid valve: **VXS** series
- > Pneumatically-actuated straight valve: **VXS** series
- > Pneumatically-actuated slanted seat valve: **VXB** series



VXS series

Saturated steam

Pneumatically-actuated valves for cooling lubricants

- > 2-port 2-position valve: **SGCA** series
- > 2-port 2-position valve with integrated pilot valve: **SGC** series
- > 2-port 2-position and 3-port 2-position directional control valves for pressures up to 70 bar: **SGHA** series
- > 2-port 2-position and 3-port 2-position directional control valves for pressure sup to 70 bar with integrated pilot valve: **SGC** series



SGH series

Cooling lubricants





2 and 3 port valves for chemicals and ultrapure fluids

- > Compact solenoid valves, isolated fluids: **LVM** series
- > Pneumatically-actuated membrane valve, threaded version: **LVA** series
- > Pneumatically-actuated PFA membrane valve with fittings for ultra pure fluids: **LVC** series
- > Pneumatically-actuated PFA membrane valve with fittings for ultra pure fluids, compact: **LVD** series
- > Non-metallic membrane valve: **LVQ** series
- > Hand-actuated membrane valve: **LVH** series
- > Pneumatically-actuated PVC-C membrane valve with PVC pipe fittings: **LVP** series
- > Pneumatically-actuated PVC drain valve with PVC pipe fittings: **LWV** series



LVA series

Chemicals

<p>Switching high purity gases (UHP–Ultra High Purity)</p> <ul style="list-style-type: none"> > Single-stage pressure regulator with up to 310 bar inlet pressure: AP/AZ1#00/9#00 series > Two-stage pressure regulator with up to 310 bar inlet pressure: AP#700 series > Compact pressure regulator with up to 10 bar inlet pressure: AP500/SL5200 series > Single-step springless pressure regulator with up to 241 bar inlet pressure: SL5#00 series 		<p>Gases</p>
<p>Switching industrial gases</p> <ul style="list-style-type: none"> > Pneumatic and manual 1/4" membrane valve up to 207 bar: AK3000 series > Pneumatic and manual 3/8" membrane valve up to 207 bar: AK4000 series 		<p>Process air, Inert gases Gases</p>
<p>High vacuum valve (10^{-6} Pa_{abs}) with aluminium body</p> <ul style="list-style-type: none"> > Pneumatically-actuated angle valve with bellows: XLA/XLC series > Pneumatically actuated angle valve: XLF/XLG series > Pneumatically-actuated angle valve with bellows, 2-step: XMD series > Manually-actuated angle valve, with bellows: XLH series > Stainless steel solenoid-actuated angle valve with bellows: XLS series 	 <p style="text-align: center;">XL series</p>	<p>Vacuum</p>
<p>High vacuum valve (10^{-6} Pa_{abs}) with stainless steel body</p> <ul style="list-style-type: none"> > Solenoid-actuated straight way valve with VCR® and Swagelok® fittings: XSA series > Pneumatically-actuated angle valve with bellows: XMA/XMC series > Pneumatically-actuated angle valve with bellows, 2-step: XMD series > Manually-actuated angle valve, with bellows: XMH series > Pneumatically-actuated straight way valve with bellows: XYA/XYC series > Pneumatically-actuated straight way valve with bellows, 2-step: XYD series > Manually-actuated straight way valve with bellows: XYH series 	 <p style="text-align: center;">XSA series</p>	<p>Vacuum</p>

2 and 3 port valves for special applications

- > Directly-actuated 2-port 2 position solenoid valve: **VX3** series
- > 2-port 2-position solenoid valve, energy saving version: **VXE** series
- > Directly-actuated 2-port 2-position solenoid valve with integrated sieve: **VXK** series
- > Waster hammer reducing, pilot-controlled, 2-port 2-position directional control solenoid valve: **VXR** series
- > Directly-actuated 2-port 2-position solenoid for high pressures: **VX2##XH** series
- > Pilot-controlled 2-port 2-position solenoid for high pressures: **VXH** series
- > Compact proportional valve: **PVQ** series






VX3 series

Process air,
Inert gases
Gases
Process water
Saturated steam
Oil
Vacuum

PUMPING FLUIDS

Suitable components for your application

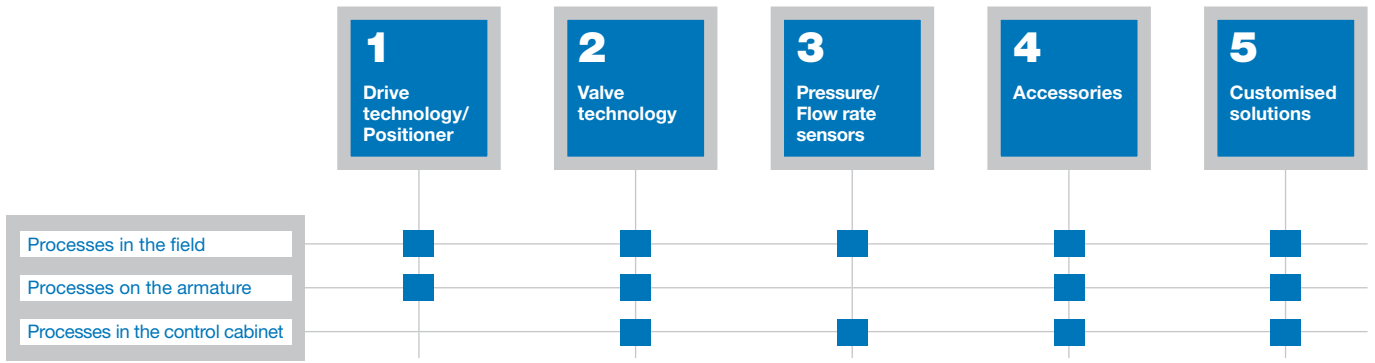
Products	Fluids	
<p>Pumping fluids with pneumatic double membrane pumps</p> <ul style="list-style-type: none"> > Standard version, output up to 20 or 45 l/min: PA3000/5000 series > Pulsation absorbing version, throughput up to 10 l/min: PAX1000 series > PFA clean room version, throughput up to 13 l/min: PAP3000 series > PFA clean room version, throughput up to 20 or 45 l/min: PAF3000/5000 series 	 <p>PAF3000/5000 series</p>	<p>Process water Oil Chemicals</p>
<p>Pumping or dosing fluids with pneumatic membrane pumps</p> <ul style="list-style-type: none"> > Standard version, throughput up to 1 l/min: PB1013A series > Version with integrated solenoid valve, throughput up to 2 l/min: PB1011A series > Throughput up to 1 l/min, assembled under clean room conditions, contact surface with medium: PFA (casing), PTFE (membrane): PB1313A series 		<p>Process water Oil Chemicals</p>
<p>Ejectors to extract gases or fluids</p> <ul style="list-style-type: none"> > Stainless steel Venturi scrubbers: ZH#-X267 series > Volume booster to extract or discharge: ZH#-X185 series 	 <p>ZH#-X185 series</p>	<p>Process air, Inert gases Gases Process water Oil Chemicals</p>

PROCESS AUTOMATION

Your process is our challenge

Reliability and cost awareness are the motto of SMC engineers. Thanks to instrumentation components and many other products from SMC you can equip your production facilities or those of your clients so as to ensure process security and low maintenance requirements. Whether in the control cabinet, direction on the armature or out in the field.





DRIVE TECHNOLOGY/POSITIONER

Suitable components for your application

Products	Processes	
<p>Pneumatic drives for the process industry – more than standard</p> <ul style="list-style-type: none"> > Standard ISO 15552 cylinder with many custom versions: C96/CP96 series > ISO cylinder, explosion-proof version: 55-C95/CP95/C96 series > Cylinder up to 300 mm in diameter, explosion-proof version: 55-CS1 series > Stainless steel pneumatic cylinder: CG5 series > Air-servo system for simple electro-pneumatic positioning: XT777 series > Custom cylinder with large diameter over 300 mm: Upon request > Cylinder with positioning units: Upon request 		<p>In the field On the armature</p>
<p>Hydraulic actuators</p> <ul style="list-style-type: none"> > Hydraulic cylinder up to 160 mm in diameter and 35 bar operating pressure: CHA series > Hydraulic cylinder up to 100 mm in diameter and 70 bar operating pressure: CH2F series > Hydraulic cylinder up to 100 mm in diameter and 140 bar operating pressure: CH2G/CH2H series 		<p>In the field On the armature</p>
<p>Adjustment controller: Positioning drives with pneumatic signals</p> <ul style="list-style-type: none"> > Pneumatic-pneumatic, lever or wave return: IP5000/IP5100 series > Pneumatic-pneumatic, lever or wave return, explosion-proof: 55-IP5000/55-IP5100 series > Pneumatic-pneumatic, for installation on cylinders. IP200 series 		<p>On the armature</p>
<p>Positioner: Positioning actuators by electronic signals</p> <ul style="list-style-type: none"> > Electro-pneumatic, lever or wave return: IP8000/IP8100 series > Electro-pneumatic, lever or wave return, explosion-proof: IP8000-X14/IP8100-X14 series > Smart positioner, HART protocol, lever or wave return: IP8001/IP8101 series > Smart Positioner, HART protocol, lever or wave return, explosion-proof: 52-IP8001/52-IP8101 series 		<p>On the armature</p>




VALVE TECHNOLOGY

Suitable components for your application

Products	Processes	
<p>Single valve, explosion-proof</p> <ul style="list-style-type: none"> > 3-port 2-position and 5-port 2-position solenoid valve: 50-VPE/VFE series > 5-port 2-position and 5-port 3-position solenoid valve: 52-SY##20 series 	 <p>50-VPE/VFE series</p>	<p>In the field On the armatures</p>
<p>Valve manifolds, explosion-proof</p> <ul style="list-style-type: none"> > 5-port 2-position, 5-port 3 position and 2x 3-port 2-position solenoid valve, 3 different valve sizes: 56-VQC series > 5-port 2-position and 5-port 3-position solenoid valve: 52-SY##40 series 	 <p>52-SY series</p>	<p>In the field In the control cabinet</p>
<p>Single valve with NAMUR interface</p> <ul style="list-style-type: none"> > 3-port 2-position solenoid valve: VFN200N series > 5-port 2-position solenoid valve: VFN2000N series > 3-port 2-position and 5-port 2-position solenoid valve, explosion-proof: 50-VPE/VFE series (<i>ATEX category 2GD</i>) > 3-port 2-position and 5-port 2-position solenoid valve, clean style: VFN2120N-X23/X36 series 	 <p>VFN series</p>	<p>On the armature</p>
<p>Valve manifolds for installation in the control cabinet</p> <ul style="list-style-type: none"> > 5-port 2-position, 5-port 3-position and 2x 3-port 2-position solenoid valves: NEW SY series > 5-port 2-position, 5-port 3-position and 2x 3-port 2-position solenoid valves as compact pilot valves: S0700 series > Modular bus system with many options: EX600 series 	 <p>NEW SY series</p>	<p>In the field In the control cabinet</p>

PRESSURE/FLOW RATE SENSORS

Suitable components for your application

Products	Processes	
<p>Pressure switch</p> <ul style="list-style-type: none"> > Mechanical pressure switch, explosion-proof: 56-IS10 series > Electronic pressure switch, explosion-proof: 56-ISE70 series > Mechanical pressure switch for pressurised air: IS3000 series 	 <p>ISE70 series</p>	<p>In the field</p>
<p>Flow switch</p> <ul style="list-style-type: none"> > Flow rate switch with membrane design, bronze/brass/NBR: IFW5 series > Low rate switch with paddle design for installation in pipes: IF3 series 	 <p>IFW5 series</p>	<p>In the field</p>
<p>Flow switch with external display</p> <ul style="list-style-type: none"> > Flow range up to 100 l/min: PFM5 series > Flow range up to 500 l/min: PF2A5 series 	 <p>PFM5 series</p>	<p>In the control cabinet</p>

ACCESSORIES

Suitable components for your application

Products		Processes
<p>Process air treatment</p> <ul style="list-style-type: none"> > Filter controllers for instrumentation: IW series > Stainless steel filter controllers for temperatures from -40 to +80 °C: AW-X2622 series > Filter regulator for pneumatics: AW-B series > Membrane drier: IDG series 	<p>IDG series</p> 	<p>In the field On the armature In the control cabinet</p>
<p>Tubes</p> <ul style="list-style-type: none"> > Tubes: TU series > PTFE fluoropolymer tube: TD/TID series > Double-walled soft fluoropolymer tube (inner layer) and polyamide (external layer): TQ series 	<p>TD/TID series</p> 	<p>In the field On the armature In the control cabinet</p>
<p>Push-in/insert fittings</p> <ul style="list-style-type: none"> > 316 stainless steel push-in fittings: KQG2 series > 316 stainless steel insert fittings: KFG2 series 	<p>KFG2 series</p> 	<p>In the field On the armature In the control cabinet</p>
<p>Boosting control signals</p> <ul style="list-style-type: none"> > Booster valve: IL100 series > Booster valve, special version for -30 to +80 °C: IL100 series > Booster valve, special stainless steel version: IL100 series > Booster valve, special version for large drives/available in stainless steel: XT240 series 	<p>IL100 series</p> 	<p>On the armature</p>
<p>Monitoring and blocking control signals</p> <ul style="list-style-type: none"> > Lock-up valve, single action: IL201 series > Lock-up valve, double action: IL211 series > Lock-up valve, 3 function: IL220 series > Lock-up valve, special version for -40 to +60 °C: IL2## series > Lock-up valve, special stainless steel version: IL2## series 	<p>IL201/211 series</p> 	<p>On the armature</p>

CUSTOMISED SOLUTIONS

Suitable components for your application

Products	Processes
<p>Specials</p> <p>> Standard components tailored to your application</p> <p>Our development and sales engineers work closely with you to plan, produce, test and deliver components optimised for your processes.</p>	In the field
<p>Packages</p> <p>> Components bundles for your assembly process</p> <p>Our logistical experts plan, commission and deliver multiple components you require as a bundle, where and when you need them.</p>	On the armature
<p>Assemblies</p> <p>> Components, ready to install in your system</p> <p>Whether complex components, mounting plates or complete control cabinets; our assembly specialists work with you to develop a plug & play solution.</p>	In the field On the armature



Example: **Component**

Subject to technical and size changes.
Further product series can be found in our extensive catalogue portfolio.

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