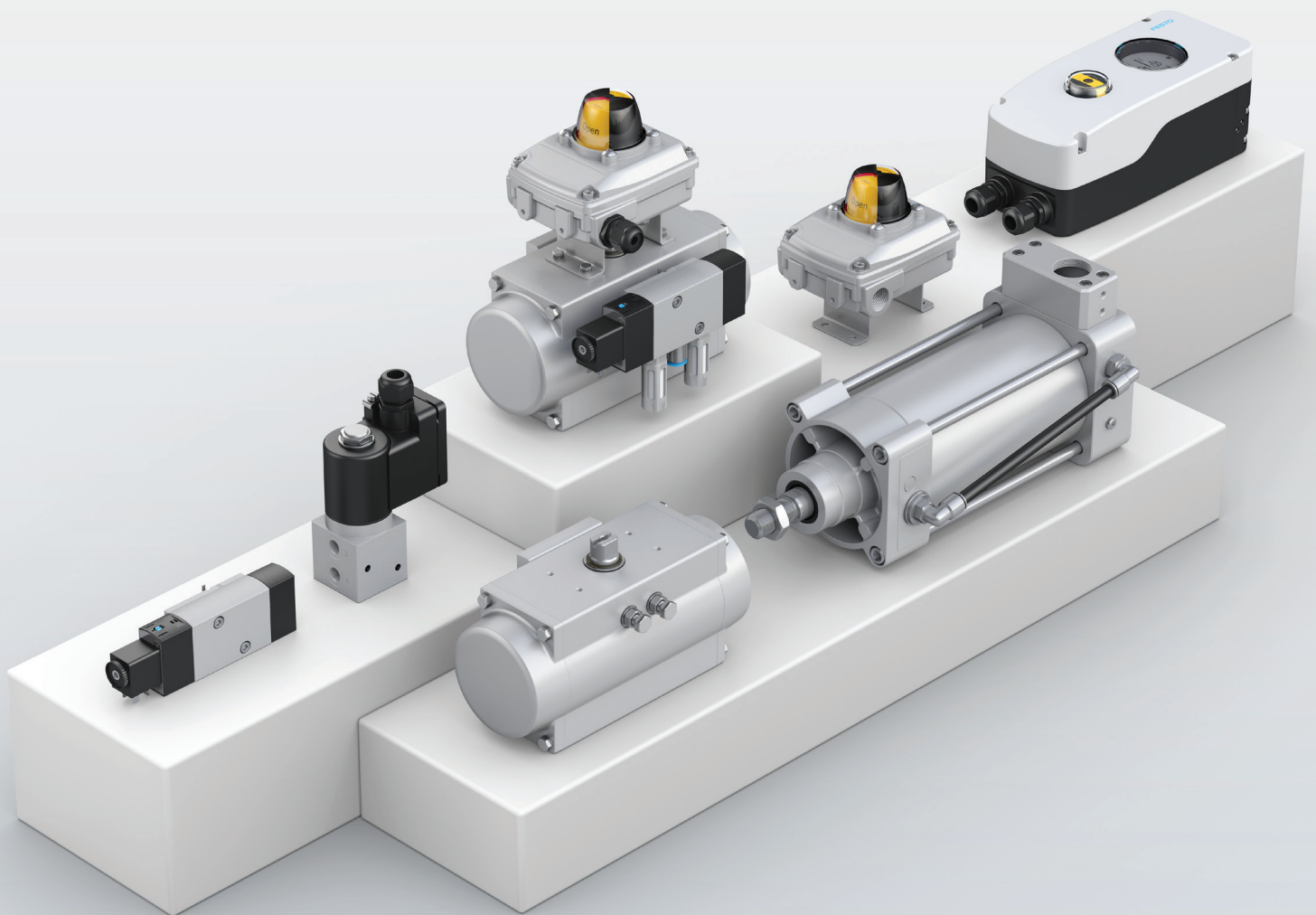


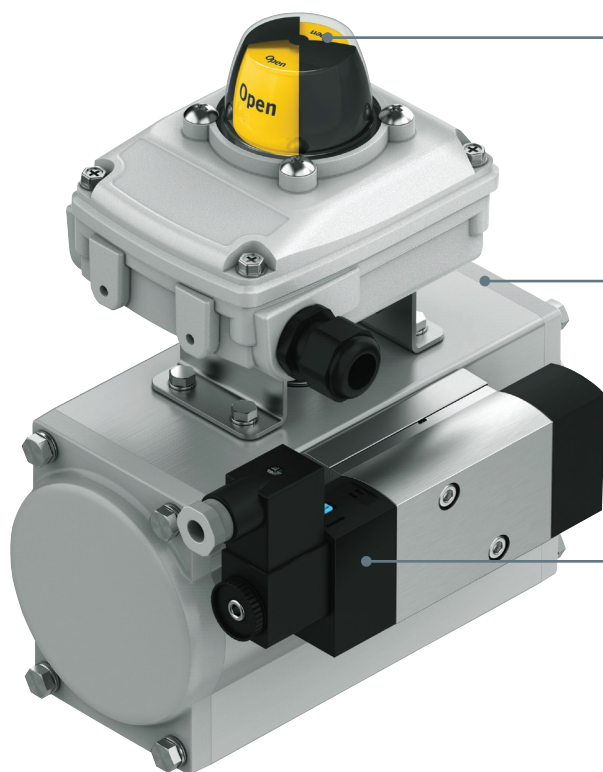
**Competency from a single source:
Complete pneumatic automation solutions
for process valves**

FESTO



Pneumatic automation and fluid control: all from a single source

For years, Festo has been developing factory and process automation solutions for a wide range of industries. By transferring our experience and innovations from one industry to another, we create valuable synergies. Our global network of expertise enables us to develop and implement customised concepts for your system quickly and cost-effectively – all from one trusted partner.



Sensors and limit switch boxes

- Reliable, flexible and cost-effective range for optical position indication and electronic position sensing
- Mechanical, inductive or magnetic switch available
- Weatherproof housing for outdoor use
- Ex versions for use in hazardous areas

Pneumatic quarter turn actuators

- Standard quarter turn actuators are available in double- or single-acting version
- Torques up to 32,000 Nm
- Choice of scotch yoke or rack/pinion design
- Optional integrated hand wheel for manual override

Single solenoid valves (NAMUR)

- The NAMUR valve series VSNC is the perfect fit for any standard applications to drive single- or double-acting actuators
- Convertible from 3/2-way to 5/2-way function by turning the seal
- Manual override directly at the valve
- Special versions with high corrosion resistance and explosion protection for use in the chemical/petrochemical industry

Food processing and packaging



Water technology



Battery



Digital positioner

- Positioning device for proportional control of process valves
- Individual versions to control single- or double-acting quarter turn actuators as well as double-acting linear actuators
- Interface according to VDI/VDE 3845 standard
- Configurable fail-safe position (open/close)

Your benefits at a glance

Your goal

- Production processes with maximum productivity and reliability

Our solution

- Smart automation solutions from a single source

Our process valve portfolio

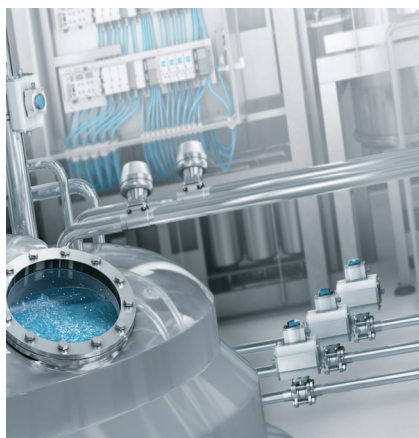
- Linear and quarter turn actuators
- Pilot valves
- Sensors
- Limit switch boxes
- Positioners
- Pneumatic tubing and fittings
- Brackets and couplings

Your added value

- A single point of contact for all automation components
- Simplified procurement processes
- Reduced logistics costs
- Faster assembly for customised, cost-effective solutions



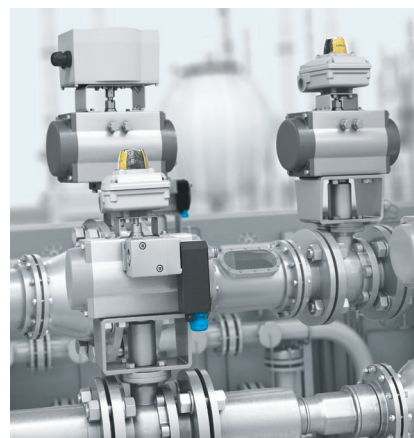
Biotech/Pharma and cosmetics



Mining and mineral processing



Chemicals



Positioners

The CMSX and CMSH from Festo are high-precision positioners for all types of linear and quarter turn actuators. They meet demanding control accuracy, diagnostics, and compliance requirements and provide audit-ready documentation for SIL, ATEX and hygienic applications. Clear diagnostics and feedback help reduce commissioning time and simplify troubleshooting.

Smart positioner CMSH

You now only need one device for the fast and precise control of actuators, whether large or small, linear or rotary, single- or double-acting. The CMSH supports standardized interfaces and features innovative installation concepts for a wide range of application options.

→ www.festo.com/cmsx



Positioner CMSX

Affordable and reliable valve positioner CMSX for pneumatic linear and quarter turn actuators. It offers excellent value for money, is energy-efficient, provides analogue or digital feedback signals for incredibly reliable processes, and has adjustable safety settings.

- Digital, electropneumatic positioner
- Simple and efficient position control of single- and double-acting pneumatic rotary and linear actuators
- With integrated or external path/angular detection
- Simple commissioning thanks to automatic initialisation function
- Variants with safety functions

→ www.festo.com/cmsx

4-wire positioner for simple and efficient position control



Limit switch boxes

Limit switch boxes are used for electrical feedback and control of the position of actuated process valves with pneumatic quarter turn actuators. No matter which limit switch box you choose, they are all designed for quick and easy mounting to reduce installation effort.



Sturdy design
for harsh
conditions

SRBC

- Weatherproof housing for outdoor applications
 - Mechanical, inductive or magnetic switch variants
 - Clearly visible position indicator for detecting the current position
 - NEMA 4/4X and IP67
 - SIL2
 - IECEx, ATEX, CSA
- www.festo.com/srbc



Highly
chemical
resistant

SRBK

- Weatherproof PA housing for outdoor use
 - High enforced polymer
 - Two cable inputs for common power supply for sensors and solenoid valve
 - UL94 – V0 fireproof
 - cCSAus listed
 - SIL2 according to IEC 61508
- www.festo.com/srbk



Ideal for
explosive
atmospheres

SRBE

- Flameproof design
 - For installation in hazardous areas
 - NEMA 4/4X and IP67
 - SIL2
 - IECEx, ATEX, CCC, KCC, CSA, Inmetro
- www.festo.com/srbe



Compact
design for tight
installations

SRBG with SASF

- Direct mounting with minimal space required
 - Inductive dual sensor
 - Ex version for hazardous areas
 - M12 or clamped terminal connection
 - ASI interface
 - IP67
 - cULus
 - IECEx, ATEX, CCC
- www.festo.com/srbg



Compact housing
with M12 plug
connection

SRBI with SASF

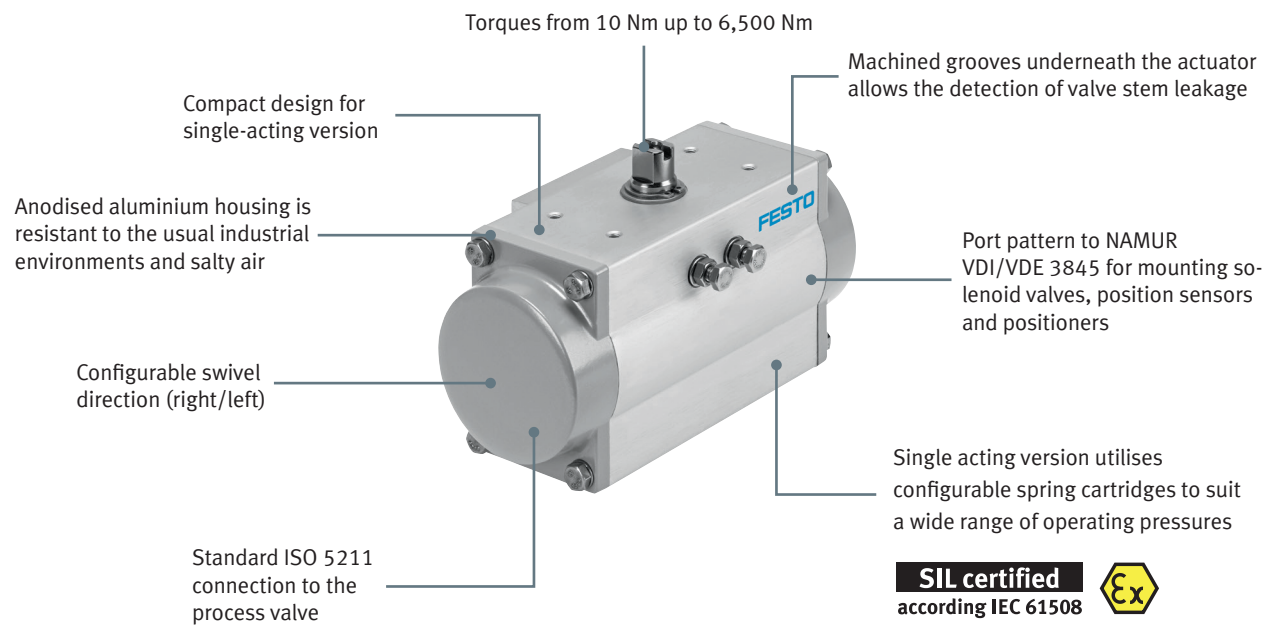
- Direct mounting on quarter turn actuators to VDI/VDE 3845
 - For quarter turn actuators with position indicators
 - LED status indicator for switching status and supply voltage
 - UL approved
- www.festo.com/srbi

Actuators

Actuators determine how reliably a process valve moves and how smoothly the rest of the automation system operates. When selected and standardised correctly, they prevent costly redesign cycles and avoid interface surprises.

Quarter turn actuator

DFPD is the new benchmark for quarter turn actuators. It can be supplied as an individual actuator or as part of a complete automated process valve system from Festo.



DFPD-C

- Hard anodising protects end caps from scratches
- Non-ferrous metal-free spring cartridges protect from internal spring corrosion
- VDI/VDE 3847-2 interface for easier mounting of positioner

→ www.festo.com/dfpd



DFPD Epoxy

- For applications where elevated corrosion resistance is needed
- Outdoors
- Repeated washing
- Increased resistance to salty environments compared to anodised aluminium

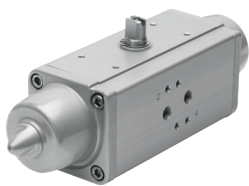
→ www.festo.com/dfpd



DFPD-HD

- Extremely modular for a variety of uses: configurable spring forces, a choice between right or left direction of rotation and mechanical or hydraulic manual override
- Namur connection pattern to VDI/VDE 3845
- Variants to EU Explosion Protection Directive (ATEX)

→ www.festo.com/dfpd-hd



Compact
design

DAPS Standard

The compact and sturdy quarter turn actuator DAPS with rack and pinion mechanism is specifically designed for the process industry.

- The single-acting actuator has half the torque of the double-acting actuator with the same housing size
- Minimal wear thanks to the simple and sturdy mechanical system

→ www.festo.com/daps



Corrosion
protection

DAPS-CR

Single-acting and double-acting quarter turn actuators DAPS in stainless steel are used for automating process valves with a 90° swivel angle.

The single-acting variant has different spring forces for different supply pressures.

→ www.festo.com/daps



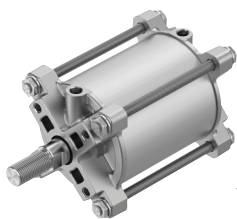
Manual
override

DAPS-MW

When the supply pressure is switched off, the handwheel can be used to manually change the position of the valve or actuator. The handwheel therefore acts as a manual emergency override.

→ www.festo.com/daps

Linear actuators



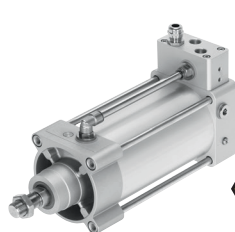
Optimised for
gate valves



DFPC

- Cost-optimised concept
- Diameter 80...320 mm
- Stroke 10...1,600 mm
- ISO 5210 and 15552 interfaces
- Adapter plate for NAMUR pilot valve
- Designed for on/off linear actuator

→ www.festo.com/dfpc



Integrated
displacement
encoder



DFPI-...-E...

- Diameter 100...320 mm
- Stroke 40...990 mm
- Adapter plate to mount our positioner CMSX or CMSH
- M12 plug or cable fitting
- PA or stainless steel tube
- IP65, IP67, IP69K, NEMA4

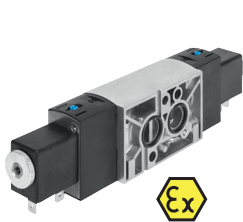
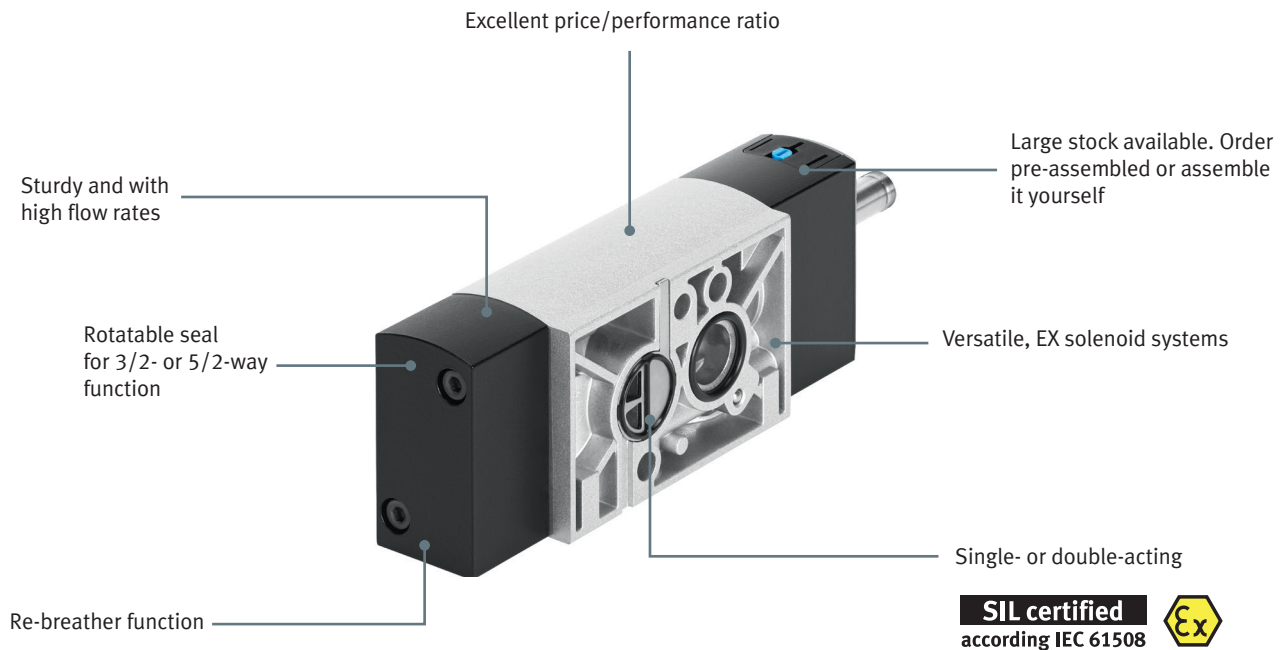
→ www.festo.com/dfpi

Pilot valves

NAMUR valves are pilot valves for single- and double-acting quarter turn and linear actuators. They are designed to automate and control process valves and actuators safely and reliably.

Namur pilot valve VSNC-F8

The standard NAMUR valve VSNC is certified in accordance with the most common explosion standards the world over. It is a sturdy unit that combines great value for money with a modern design.



Ex-approved
for hazardous
areas

VSNC-FN

- NAMUR connection pattern to VDE/VDI 3845 with a wide range of Non-Ex or Ex approved coils
 - Indoor or outdoor use (IP65 as standard)
Re-breather function to protect the actuator from internal corrosion
 - Material suitable for outdoor applications
- www.festo.com/vsnc



Extremely sturdy
and corrosion
resistant

VOFD

- Directly controlled
 - Ex me, Ex d
 - 3/2-way valve, closed, single solenoid
 - Extremely reliable directly actuated pop-pet valve design, in particular for emergency shut-down functions
 - For safety related systems up to SIL 3
- www.festo.com/vofd



Reliable use
under tough
conditions

VOFC

- Indirectly controlled
 - Ex me, Ex ia
 - 3/2-way, 5/2-way single and double solenoid
 - Ematal surface treatment offers long lasting protection against wear and corrosion
 - For safety-related systems up to SIL 3
- www.festo.com/vofc

Accessories

Having the right accessories contributes to safe system installation, optimised pneumatic performance, and long-term system reliability. Correctly selected pneumatic accessories reduce leakage, stabilize pressure levels, and simplify assembly. These components are readily available in a range of different variants.

Connection technology

Push-in fittings and couplings for a huge variety of applications. Standard for economic solutions or for specific ambient conditions.

→ www.festo.com/product-finder/fitings



Tubing

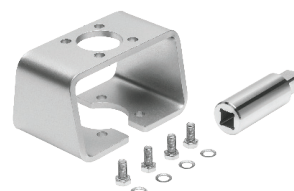
Tubing for a huge variety of applications. Standard for economic solutions, high pressures, food safe, hydrolysis resistant, UV-resistant, anti-static, flame-retardant, chemical resistant like PTFE for particularly demanding requirements.

→ www.festo.com/product-finder/tubing



Mounting accessories

A range of mounting kits is available if the standard interface does not match.



Filter regulators

Filter regulators for filtering and regulating compressed air in a wide variety of applications. For clean, dry compressed air and constant pressure — standard for cost-effective solutions or for specific ambient conditions.

→ [Discover filter regulators online](#)



The fast way to complete valve assemblies with our configurator

Selecting the right process valve unit doesn't have to be complex. With the configurator, you can quickly set up a quarter turn actuator unit to automate your process valves. Reduce engineering effort and standardize your valve automation in minutes.

→ [Explore our configurator](#)



Process industries and process automation portfolio

	Product and component overview			Customised solutions, assemblies and products
Field level	 Limit switch box SRBC	 Limit switch box SRBE (flameproof)	 Limit switch box SRBK	Customised ball valve units for standard, hygienic or hazardous applications 
Pilot valves/ Namur valves	 Pilot valve VSNC G14 (Namur)	 Pilot valve VSNC G18 (Namur)	 Stainless steel pilot valve VOFI (Namur/Inline)	Automation solutions for linear and rotary actuated process valves (On/Off or proportional controlled) 
Actuators	 Quarter turn actuator DFPD	 Quarter turn actuator DFPD-C	 Quarter turn actuator DAPS	
	 Stainless steel actuator DAPS	 Quarter turn actuator hand wheel DAPS-MW	 Linear actuator DLP	
	 Linear actuator DFPC	 Controlled linear ISO actuator DFPI-NB3	 Heavy-duty quarter turn actuator DFPD-HD	Customised product developments for individual customer processes/ applications 
Accessories	 Mounting kits for actuators and process valves	 Stainless steel filter regulator PCRFP	 Service units & air preparation	 Pneumatic extension module VTOP
	 Air dryers	 Compressed air reservoir	 Pressure booster DPA	 Pneumatic extension module CMSH/VTOP
	 Push-in fittings	 Polymer tubing	 Connector technology	 Online configurator KDFP-DFPD for customised valve assemblies