You are looking for a partner who understands your objectives. You require more efficient production facilities. We are your solution for automation.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

Festo - the industry segment partner

For years, Festo has been developing process automation solutions for a broad range of industry sectors. By transferring our experience from one industry to another, we take advantage of valuable synergies and create economies of scale.

You too can benefit from our worldwide network of know-how, because it enables us to develop and implement customised concepts for your system quickly and economically.

Product range for process automation

Festo process automation products offer all the individual levels of the automation pyramid, from the operating level to the field level.

Customers worldwide receive all their components from a single source: control technology and remote I/Os, valve terminals, pilot valves, sensors and positioners, actuators, process and media valves, compressed air preparation and pneumatic connection technology.

Maximum productivity – this is our mission

Our know-how, our holistic approach and our love of detail have made us a global leader in automation technology. With over 50 years’ experience in factory and process automation, we are the right partner for you. We are always able to provide an appropriate solution which is characterised by security, simplicity, efficiency and competency.

Giving you a head start: Complete Automation Systems from a Single Source...
Actuated Ball Valve Assemblies

Fully automated ball valves from a single source make planning, procurement and commissioning significantly easier and more cost effective. It eliminates a considerable amount of product configuration, reduces warehousing costs for spare parts, and speeds up service and maintenance.

Quarter turn actuator DFPD
- Compact
- Single or double-acting variants
- End-position adjustment at both ends
- Optimised spring setting design

Options
- Corrosion resistant version with epoxy coating and high grade stainless steel shaft
- Extreme temperature versions
- 180° swivel angle

Alternatives
- Quarter turn actuator DAPS-CR
  - All stainless steel design for corrosive environments
- Quarter turn actuator DAPS-MW
  - Direct hand wheel actuation for manual override

Ball valves
A wide range of 2-way and 3-way ball valves for the control of liquids and gaseous media. Can be Normally closed (NC) or Normally open (NO).

VZBA/VZBE
- 2-way
- CF8M body and ball material
- PTFE seals
- Standard BSP or NPT connection

VZBF
- 2-way
- Stainless steel
- 1 or T part
- Fire safe
- Stainless steel
- ANSI flange

VZBD
- 3A Sanitary
- Cavity filled
- Weld or tri-clamp

Hygienic
- Suitable for food
- EPDM, FPM, or silicone seat
- 2-way
- Nickel plated brass
- Low cost
- 2-way and 3-way
- Stainless steel
- 1 or T part
- Fire safe
- Stainless steel
- ANSI flange
- 3A Sanitary
- Cavity filled
- Weld or tri-clamp

Pre-assembled with silencers and flanges to reduce installation time!

For positioning and control - CMSX
- Excellent price/performance ratio
- Energy-efficient
- 4-20mA feedback as standard
- Pre-definable safety position for emergency stop

Sensor box SRBC
- Weather tight aluminium housing for outdoor applications
- Mechanical, inductive or magnetic switch variants
- Two cable inputs for common power supply to the sensor box and solenoid valve

Alternatives
- Sensor box SRBE
  - Mechanical, inductive or magnetic switch variants
  - Ex approved for hazardous area installations
- Sensor box SRBG
  - Compact design
  - Inductive dual sensor
  - Direct mounting to VDI/VDE 3845
  - M12 or terminal port connection
  - ASI interface compatible

Standard NAMUR valve VSNC-...F8
- Rotatable seal for 3/2 or 5/2-way function
- Multiple coil voltage options
- Excellent price/performance ratio

Options
- NAMUR valve VSNC-...FN
  - Ex solenoid options for hazardous areas
  - Aluminium alloy cover material for outdoor applications

Alternatives
- Pilot valves VOFC and VOFD
  - Reliable and safe switching
  - 3/2-, 5/2-way valves with ports G1/4”, G1/2” and NAMUR
  - SS or Ematel body for corrosive environments
  - SIL 3 certified
  - Ex solenoid options for hazardous areas
Actuated Butterfly Valve Assemblies

Fully automated butterfly valves from a single source make planning, procurement and commissioning significantly easier and more cost effective. It eliminates a considerable amount of product configuration, reduces warehousing costs for spare parts, and speeds up service and maintenance.

Quarter turn actuator DFPD
- Compact
- Single or double-acting variants
- End-position adjustment at both ends
- Optimised spring setting design

Options
- Corrosion resistant with epoxy coating and high grade stainless steel shaft
- Extreme temperature versions

Alternatives
Quarter turn actuator DAPS-CR
- All stainless steel design for corrosive environments

Quarter turn actuator DAPS-MW
- Direct hand wheel actuation for manual override

Quarter turn actuator DFPD-HD
- For high torque applications

Butterfly valves
Ideal for liquids, gases and solids in applications that are corrosive, abrasive, water based or require food-grade materials. Can be Normally closed (NC) or Normally open (NO).

VZAV
- Wide range of resilient seat options to suit different applications
- Epoxy or polyurethane coated cast iron body
- Various food grade options (FDA approved materials)
- Wafer, lugged and ANSI U-Section connections
- DN25 to DN1600

Sensor box SRBC
- Weather-tight aluminium housing for outdoor applications
- Mechanical, inductive or magnetic switch variants
- Two cable inputs for common power supply to the sensor box and solenoid valve

Alternatives
Sensor box SRBE
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Sensor box SRBG
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- SS or Ematel body for corrosive environments
- SIL 3 certified
- Ex solenoid options for hazardous areas

Vertical style actuator with Festo manufactured control top also available

Hygienic
- Food applications
- EPDM, FPM or Silicone seat
- DN25 to DN100

VZAV
- Corrosive/high purity application
- Stainless steel optional
- DN32 to DN900

Manual operators also available

Pre-assembled with silencers and fittings for a complete ready-to-install solution

Pre-wired cable from the sensor box to the NAMUR valve simplifies installation

For positioning and control - CMSX
- Excellent price/performance ratio
- Energy-efficient
- 4-20mA feedback as standard
- Pre-definable safety position for emergency stop

For positioning and control - CMSX
- Excellent price/performance ratio
- Energy-efficient
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Single solenoid 3/2 or 5/2
- Double solenoid 5/2 or 5/3

Dual valve option for redundant safety requirements

Fully automated butterfly valves from a single source make planning, procurement and commissioning significantly easier and more cost effective. It eliminates a considerable amount of product configuration, reduces warehousing costs for spare parts, and speeds up service and maintenance.
Quarter-Turn Actuator - DFPD

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.

• Corrosion resistant version with epoxy coating and high grade stainless steel shaft
• Low and high temperature versions from -50 °C to +150 °C for extreme operating conditions
• 180° swivel angle available for double acting version

Compact design for single-acting version saves installation space

Nickel-plated steel or high grade stainless steel shaft

Configurable swivel direction (right/ left) enables the single-acting version of the DFPD to be configured Fail Open or Fail Close

Easy to adjust end-positions thanks to unique cam design

Machined grooves underneath the actuator allows the detection of valve stem leakage

Single-acting version utilises configurable spring cartridges to suit a wide range of operating pressures

Standard ISO 5211 connection to the process valve

Quarter turn actuator DFPD - Double and single acting

Variants

• Corrosion resistant version with epoxy coating and high grade stainless steel shaft
• Low and high temperature versions from -50 °C to +150 °C for extreme operating conditions
• 180° swivel angle available for double acting version

Completely automated process valves from a single supplier

When combined with a sensor box, a pilot valve or positioner, the quarter turn actuator DFPD forms part of a complete automated process valve assembly.

Sensor Boxes to VDI/VDE 3845

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

Sensor box SRBC

Sturdy design for harsh conditions

- Weather-tight housing for outdoor applications
- Mechanical, inductive or magnetic switch variants
- Clearly visible position indicator for detection of current position
- IP67
- SIL2

Sensor box SRBE

Ideal for explosive atmospheres

- Flameproof enclosure enables installation without safety barriers
- Ex approved for hazardous area installations
- IP67
- SIL2

Sensor box SRBG

Compact design for light installations

- Direct mounting with minimal space required
- Inductive dual sensor
- Ex version for hazardous areas
- M12 or terminal port connection
- ASI interface compatible
- IP67

Limit switch DAPZ_AR

Provides 3-way indication

- Micro switch or inductive sensor for position sensing
- Integrated solenoid valve actuation
- IP67

Namur 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 valve - VSNC

One solution for single and double acting actuators

- Rotatable seal for 3/2 or 5/2-way function
- Multiple coil voltage options
- Capable of high flow rates
- Extended temperature ranges
- Air recycling feature for 3/2 configuration to eliminate internal actuator corrosion
- Cover material for outdoor applications

Namur valve - VSNC-Ex

Ex-approved for hazardous areas

- Application optimised for IP65 and Ex coils with protective cap for armature tube exhaust
- Ex approved
- Air recycling feature for 3/2 configuration to eliminate internal actuator corrosion
- Cover material for outdoor applications

Pilot valve - VOFD

Extremely sturdy and corrosion resistant

- 3/2-way single, closed, single solenoid
- For outdoor use under harsh ambient conditions
- Extremely reliable for direct actuated valves, in particular for emergency shut-down functions

Pilot valve - VOFC

Reliable use under tough conditions

- 3/2-way, 5/2-way single and double solenoid
- Emailed surface treatment offers long lasting protection against wear and corrosion
- For safety orientated systems up to Safety Integrity SIL 3

Find out more: www.festo.com/dfpd
Positioner - CMSX

The newly optimised positioner CMSX for single and double-acting linear and quarter turn actuators is as economical as it is reliable and a top performer in its class for non-explosive areas.

- Pre-definable safety positions for emergency stop
- NAMUR interface (VDI/VDE 3845)
- Back-lit LCD for easy viewing of valve setpoint and position even in low-light conditions
- Labelled connection ports for easy installation and commissioning
- Push-buttons for programming are located inside the housing for security
- Reliable and safe position control

Positioner for linear and quarter turn actuators - CMSX

- Reliable position control
- Analogue feedback as standard
- Safety positions for opening, closing and holding in the event of a breakdown
- Set-point value configurable to 0-10V, 0-20mA or 4-20mA

Variants

- Linear input for use with DFPI on applications where the positioner is required to be remote mounted or accessible for programming/calibration
- Higher flow rate (130 litres/minute) to allow faster response time for large actuators

Complete solutions from a single supplier

When combined with linear or quarter-turn actuators, the CMSX forms part of a complete automated solution.

Find out more:

www.festo.com/cmsx

Linear Positioning Cylinder - DFPI

The linear actuator DFPI is suitable for a wide range of applications due to the optional integrated positioner or an integrated displacement encoder for use with an external positioner and an optimised guide rod for swivel motions. It is suitable for regulating air dampers and processing bulk materials as well as for regulating flow and fill levels.

- ISO 15552 compatible with complete range of mounting accessories
- Linear positioning cylinders - DFPI
  - Double-acting
  - ISO 15552 sturdy tie rod design
  - Suitable for applications requiring closed-loop control

Alternatives

- Linear actuator with external positioner CMSX
- Fully integrated actuator with positioner to DIN 338

Actuated process valves with linear positioner

The DFPI is highly suitable for the control of slides, knife gate valves, pinch valves, dart valves, penstocks and more. As a solution supplier, we can offer a complete assembly for easy installation.

Controlled sluice gate for flowrate of return sludge at a wastewater treatment plant
Control of dart valve for level regulation in mineral processing
Control of silica discharge in fertiliser processing

Find out more:

www.festo.com/dfpi
**Angle Seat Valve - VZXA**

The VZXA angle seat valve offers long service life, a robust design and high flow rate making it ideal for the control of liquids, gaseous, viscous, contaminated or aggressive media flows.

- 2/2-way valves
- Stainless steel
- Piston style actuator
- Normally open (NO), Normally closed (NC) and Double acting (DA) versions
- Standard temperature -10 to 180°C (optional -30 to 200°C)

**Variants**
- Diaphragm style actuator
- Normally open (NO) and Normally closed (NC) versions

**Alternative Angle Seat Valve VZXF**
- Brass body
- Piston style actuator with optical indicator
- Normally closed (NC) with threaded connection
- High temperature version for steam
- Vacuum rated

**Modular design simplifies maintenance**

**Effective in extreme working conditions such as high temperatures and aggressive cleaning agents**

**The optical position indicator clearly shows the valve position**

**The patented sealing system is designed as a compact cartridge, which can be replaced quickly and easily in case of maintenance without using special tools**

**Alternate Process Connections**

**Tri-clamp**

**Weep port allows seal failure detection**

**Tri-clamp Weld end**

**Pinch Valve - VZQA**

The VZQA pneumatic pinch valve is a versatile solution for a wide range of media such as gases, granulates, liquids, syrups and media with entrained solids, regardless of whether they are abrasive, corrosive or highly viscous.

- 2/2-way valves
- Easy-to-clean housing (clean design)

**Variants**
- Normally open version
  - Media pressures up to 4 bar
  - Threaded and tri-clamp connections
  - Sizes DN6, DN15 and DN25
- Normally closed version (DN15)
  - Position detection via integrated magnet ring with Festo sensors
  - Secure shut off for media pressures of up to 6 bar
  - Full bore, no dead space and is easy to maintain
  - Multiple process connection options including threaded and tri-clamp

**Materials**
- Housing material
  - Aluminium
  - Stainless steel
- End cap material
  - Aluminium
  - Stainless steel
  - POM (Acetal)
- Shut-off element
  - EPDM
  - NBR
  - Silicone

**Pinch valves VZQA**

- Media pressures up to 4 bar
- Threaded and tri-clamp connections
- Sizes DN6, DN15 and DN25

**Filling applications**

**Dispensing**

...even as a gripper!

Find out more: [www.festo.com/vzxa](http://www.festo.com/vzxa)

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## Solenoid Valves

The 2/2-way solenoid media valves are suitable for neutral gases and liquid media for both factory and process automation. At Festo, you can find the right valve for your fluid control requirements thanks to our range of solenoid valve options.

### Valve Terminals

**Servo controlled - VZWP**
- Large operating pressure range

**Forced pilot - VZWF**
- Ideal for applications in closed media circuits
- Possible to control high pressures with large nominal diameters
- Zero differential pressure required
- Generally suitable for use in all cases where the medium can be vented downstream of the valve

**Direct acting - VZWD**
- Operates without differential pressure at up to 90 bar, even in closed media circuits
- Valve will switch at any pressure from 0 bar
- N/C function
- 3/2-way version available for piloting process valves

**Diaphragm valve - VZWM**
- Diaphragm valve
- Brass or stainless steel casting design
- Wide range of coils with a variety of different voltages available
- Add new point "NC and NO versions available
- Variety of different voltages available

### Air Preparation, Tubing and Fittings

A pneumatic system is not complete unless you have considered the right air preparation and accessories such as fittings and tubing. These components are part of the core range from Festo and are readily available in a range of different variants.

**Air preparation - MS**
- Modular product series

**Air preparation - D**
- Air prep for standard applications

**Tubing**
- Application specific tubing
- Wide selection of tubing materials
- Pressure resistant, heat resistant, antistatic, resistant to cleaning agents, media resistant, flame retardant, welding splatter resistant, food industry approved
- Different colour options

**Fittings**
- More than 300 connectors and numerous connections
- Mini, standard, metal, polymer and corrosion resistant fittings
- Push-in, threaded, barbed, couplings
- Flow controls, shut-off and non-return valve fittings

### Sensors

Festo caters for all your sensing needs. Our comprehensive portfolio of sensors combines optimum performance and maximum reliability to ensure smooth and efficient production sequences.

**Pressure sensor - SPTW**
- Perfect for measuring media pressures
- Measures flow rate, consumption and temperature of neutral liquid media
- Highly visible display
- The display and the housing can be freely rotated
- IO-Link support
- Easy to replace the sensor and fittings

**Pressure transmitter - SPAW**
- For liquid and gaseous media, pressure and vacuum
- 4-digit LED display, with display options - Bar, MPA, kPa, Psi, Kgf/cm²
- Electrical connection 4-pin Plug M12x1 or 5-pin Plug M12x1
- Accuracy ± 1% FS
- Repeatability ± 0.1% FS

**Flow sensor - SFAW**
- The easy way to monitor fluids
- Suitable for outdoor use and washdown applications
- Resistant to oils, acids and alkalies
- Recommended for use with Festo cylinders DPP and DSBB

**Cylinder sensor - CRSMT**
- Cylinder sensors for outdoor use

### Sensors

**Valve Terminals**

Festo offers the largest and most flexible range of Valve Terminals. Valve Terminals are completely pre-assembled modules consisting of pneumatic valves, electrical connection technology and communication network capabilities.

**Valve terminal - VTUG**
- Compact and cost-effective
- Multi-pin, fieldbus, IO-Link
- Up to 24 valve positions
- Degree of protection IP65, IP66, IP67
- Multiple different pressure zones on one valve terminal
- Control cabinet optimised version available

**Valve terminal - MPA**
- High performance valves in sturdy metal housing
- With multi-pin plug, AS-interface, CPI, fieldbus connection and control block
- Up to 16 2/2-way or 3/2-way valves thanks to two valve function in each valve slide

**Valve terminal - CPX-P**
- Modular with remote I/O for NAMUR signals

**Valve terminal - CPV10-Ex**
- Ideal for pressure and vacuum sensing
- Intrinsically safe design for use in potentially explosive atmospheres
- Ideal for very high flow rates in small spaces
- Up to 16 x 3/2 way valves per valve terminal
- Extremely robust thanks to the metal valve design
- Optimised for control cabinets

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**Cylinder sensor - CRSMT**
- Cylinder sensors for outdoor use
Control cabinets from Festo are individually designed and adapted to requirements in process automation. Cabinets provide protection for all pneumatic and electrical system components across all industry segments.

**Services and Support**

Our goal is to increase your productivity. Our software tools play an integral part in achieving this goal and are constantly being refined. They help you tap into productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools which will be of use to you.

**Quick Search Application**

The Quick Search Application is a must-have for your desktop. It helps you find the right product and gives you quick access to the online catalogue.

- Find the right products easily with built-in type code search
- Select multiple products for comparison of data
- Direct connection to engineering tools and online shop
- Add products to basket or create your own parts list to export
- Direct connection to selection and dimensioning tools
- Easy to find suitable accessories and even spare part products

[www.festo.com/quicksearch](http://www.festo.com/quicksearch)

**Online Shop 24h**

Online is the most convenient way to purchase products. It is faster than ever before, more reliable and allows customer’s to select from a vast range of products, over 30,000 of them.

- Quick and easy selection of products
- Create, save and share product baskets and parts lists
- Check net prices for all products in your product basket
- Check delivery times and track orders to your door
- View and accept quotations online
- Import parts lists using copy and paste functions

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**Support Portal**

The support portal packs as much information as possible into one location. It is home to all Festo’s documents, whether they relate to product information, user documentation, certificates, software, expert knowledge and even training content.

- Access to product information and technical documentation
- Full product catalogues and brochures
- Operating Instructions
- Audio visual media
- Manuals

[www.festo.com/sp](http://www.festo.com/sp)

**Circuit Diagrams and 2D/3D CAD**

Many solutions can only be envisioned if they can be seen. Whether pneumatic or electrical, we create a circuit diagram for your solution using our simulation tools.

- 2D/3D CAD interfaces for: AutoCAD®, Autodesk® Inventor™, CATIA® V5, Creo®, Pro/E(ENGINEER®), NX™, SOLID EDGE®, SolidWorks®
- EPLAN macros simplify and speed up electrical design
- FluidDraw for quickly creating electrical and pneumatic circuit diagrams

**Control Cabinets**

Control cabinets from Festo are individually designed and adapted to requirements in process automation. Cabinets provide protection for all pneumatic and electrical system components across all industry segments.

- Labelling of the connections in the control cabinet and in the documentation
- Just one order number for the entire control cabinet
- Provides protection against harsh elements
- Technology mix from one single source

**Options**

- For hazardous areas with intrinsically safe valve terminals CPV10-Ex
- Protection from dust or liquids as per protection class IP65 or IP66, especially in the mining industry
- Integrated control cabinet solution for outdoor use, ideal for the water/wastewater industry
- Stainless steel cabinets for hygienic purposes and mounting in clean rooms
- Extremely compact design to protect valve terminal controls with connections underneath

**Control cabinets made to measure**

- Individually configured
- Adapted to specific requirements in process automation
- Design and sizing included
- Fully tested system
- You receive detailed system documentation: Assembly drawings, Parts list, Circuit diagrams, Operating instructions for components

**Integrateor of pneumatic and electrical system completely designed and assembled**

- Stainless Steel cabinets also available for use in corrosive environments
- Quick and easy maintenance thanks to clearly arranged, neat and compact tubing

- Save time and costs with ready-to-install cabinets
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### Process Automation Solutions - Complete Portfolio

#### Field automation components

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</table>

#### Process valve units (selected examples)

- Process valve units: Selection of various valve types with different applications.

#### Customised systems

- Customised systems: Solutions tailored to specific needs.

#### Automation concepts

- Automation concepts: Overview of automation strategies and solutions.

#### Application solutions

- Application solutions: Examples of automation solutions in various industries and applications.
Festo - The Company

Festo is a leading provider of pneumatic and electrical drive technology for factory and process automation.

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Festo has continuously elevated the state of manufacturing with new automation technologies and processes, resulting in innovative solutions, systems and services that deliver high performing and more profitable automated and processing equipment for our customers.

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