Process Automation – Products & Services Offer
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.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

Festo – the industry segment partner

Product range for process automation

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.

Each year we are keeping abreast with the fast pace of technological progress by continually expanding the range of products for each industry segment. In addition, the functionality of products has been adapted to particular functions of the process technology and process engineering such as explosion protection, corrosion resistant, etc.
Giving you a head start: Complete automation systems from a single source...
# Actuated ball (KVZB) and butterfly (KVZA) 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.

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**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

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**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 (CRN Certified)**
- 2-way & 3-way
- CF8M body and ball material
- PTFE seals
- Standard BSP or NPT connection

**Hygienic**
- Suitable for food
- EPDM, FPM, or silicone seat

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

**VZBA/VZBE**
- 2-way and 3-way
- Stainless steel
- L or T port

**VZBF**
- Fire safe
- Stainless steel
- ANSI flange

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- Pre-assembled with silencers and fittings to reduce installation time!
- Pre-wired cable from the sensor box to the NAMUR valve simplifies installation!
- High visibility indication makes identifying the valve position easy from a distance!
Sensor box SRBC
• Weather-tight aluminium IP67 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

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

Hygienic
• Food applications
• EDPM, FPM or Silicone seat
• DN25 to DN100

VZAF
• Corrosive/high purity application
• Stainless steel optional
• DN32 to DN900

Manual operators
• Also available
Configurator for process valve units

It is time to take advantages of the tools that save your valuable time. From manually actuated process valves to fully automated ones, the new configurator for butterfly valve units and ball valve units make it quickly and easy for you to find the right solution. Select the key parameters for your application and you will see the first set of suggestions for your solution straight away.

Perfect tailored products

The products are perfectly matched to your specific applications.

Save your valuable time

Information on pricing and delivery is immediately visible providing full transparency and enabling an efficient procurement process.

Efficient procurement process

More customization possible with KDFP to match with new or existing valves.
Everything in one tool: from the product search to configuration, sizing, documentation, ordering and delivery of the process valve unit. You also have the option of submitting individual queries.

Together with the individually proposed solution, the configurator generates a system ID for the complete combination which you can save for future orders. You can also download the right configuration CAD data for the complete module.
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.

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

**Sizes available**
- 10, 20, 40, 80, 120, 160, 240, 300, 480, 700, 900, 1200, 2300

**Quarter turn actuator DFPD – Double and single acting**

**Variants**
- **DFPD-C**
- Low and high temperature versions from -50 °C to +150 °C for extreme operating conditions
- 180° swivel angle available for double acting version

**Sizes available**
- 10, 20, 40, 80, 120, 160, 240, 300, 480, 700, 900, 1200, 2300

**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 for any process valve, new or existing.

Find out more: [www.festo.com/dfpd](http://www.festo.com/dfpd)
Quarter turn actuator for chemical industry – DFPD-C

The quarter turn actuators DFPD-C and DFPD-C-VDE2 are equipped for the harsh conditions in the chemical industry and set a new benchmark with excellent features.

**Fail safe requirement**
- Spring return configuration only

**Sizes available**
- 20, 40, 80, 120, 160, 240, 300, 480, 700, 900, 1200, 2300

**NAMUR VDI/VDE 3847**
- Mounting accessory available as option

**Explosion proof compliance**
- Suitable up to SIL 3 Low Demand Mode

**Non-ferrous spring cartridges**
- Blow-out-proof screws
- Hard-anodised scratch resistant end cap
- Allows positioner to be installed without additional tubing

**SIL certified according IEC 61508**
The standard NAMUR pilot valve VSNC is certified worldwide in accordance with the usual explosion – protection standards and can be used in many industry segments and applications.

**Excellent price / performance ratio**

**Extensive stocks held. Order pre-assembled or assemble it yourself**

**Sturdy and capable of high flow**

**Rotatable seal for 3/2 or 5/2 way function**

**Re-breather function**

**Versatile, EX solenoid systems**

**IEC Ex-certified solenoid systems for zones 1 and 2**

**You can determine the appropriate coil voltage yourself and mount the coil**

**Single or double acting?**

**Flexible thanks to seal changeover**

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**Alternative connections**

Class 1; Dir 1

Intrinsic safe

Molded

Non-sparking

IP 65

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**Accessories**

Exhaust recirculation plate

Valve slice plate

Flow control plate

CNOMO to pneumatic pilot adapter

90°, 180°, 270° rotation plate

NAMUR 1/4” to 1/2” interface

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Find out more: [www.festo.com/vsnc](http://www.festo.com/vsnc)
Linear actuator - DFPC

DFPC is optimised for process valves. It has been specially design for actuating process valves such as gate valves, pinch valves or valve bodies without housing.

- **Sizes available**
  - 80, 100, 125, 160, 200

- **Stroke length**
  - 10...1600mm
  - up to 2000mm upon request

- **Stroke position feedback**
  - Bracket for T-slot proximity sensor
  - Displacement encoder

- **High corrosion resistant tie rod design**
- **Mounting interface based on ISO 5210 or ISO 15552**
- **NAMUR adaptor plate for solenoid valve**
- **Elastic cushioning rings at both ends**
- **Ideal for on/off applications**
- **Various attachment accessories available**
**Sensor boxes to VDI/VDE 3845**

Sensor boxes are used for electrical feedback and control of the position of actuated process 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.

<table>
<thead>
<tr>
<th>Sensor box SRBC</th>
<th>Sensor box SRBE</th>
<th>Sensor box SRBG</th>
<th>Limit switch DAPZ...AR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sturdy design</strong> for harsh conditions</td>
<td><strong>Ideal for explosive atmospheres</strong></td>
<td><strong>Compact design</strong> for tight installations</td>
<td><strong>Provides 3-way indication</strong></td>
</tr>
<tr>
<td>- Weather-tight housing for outdoor applications</td>
<td>- Flameproof enclosure enables installation without safety barriers</td>
<td>- Direct mounting with minimal space required</td>
<td>- Micro switch or inductive sensor for position sensing</td>
</tr>
<tr>
<td>- Mechanical, inductive or magnetic switch variants</td>
<td>- Ex approved for hazardous area installations</td>
<td>- Inductive dual sensor</td>
<td>- Integrated solenoid valve actuation</td>
</tr>
<tr>
<td>- Clearly visible position indicator for detection of current position</td>
<td>- NEMA 4/4X</td>
<td>- Ex version for hazardous areas</td>
<td>- IP67</td>
</tr>
<tr>
<td>- NEMA 4/4X</td>
<td>- IP67</td>
<td>- M12 or terminal port connection</td>
<td>- CSA</td>
</tr>
<tr>
<td>- SIL2</td>
<td>- SIL2</td>
<td>- ASI interface compatible</td>
<td>- cULus</td>
</tr>
<tr>
<td>- CSA</td>
<td>- CSA</td>
<td>- IP67</td>
<td>- Ex approved for hazardous area installations</td>
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</table>

**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.

<table>
<thead>
<tr>
<th>Namur pilot valve - VSNC</th>
<th>Namur pilot valve - VSNC-Ex</th>
<th>Pilot valve - VOFD</th>
<th>Pilot valve - VOFC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>One solution</strong> for single and double acting actuators</td>
<td><strong>Ex-approved for hazardous areas</strong></td>
<td><strong>Extremely sturdy and corrosion resistant</strong></td>
<td><strong>Reliable use under tough conditions</strong></td>
</tr>
<tr>
<td>- Rotatable seal for 3/2 or 5/2-way function</td>
<td>- Application optimised for IP65 and Ex coils with protective cap for armature tube exhaust</td>
<td>- 3/2-way single, closed, single solenoid</td>
<td>- 3/2-way, 5/2-way single and double solenoid</td>
</tr>
<tr>
<td>- Multiple coil voltage options</td>
<td>- Ex approved</td>
<td>- For outdoor use under harsh ambient conditions</td>
<td>- Ematal surface treatment offers long lasting protection against wear and corrosion</td>
</tr>
<tr>
<td>- Capable of high flow rates</td>
<td>- Air-recycling feature for 3/2 configuration to eliminate internal actuator corrosion</td>
<td>- Extremely reliable for direct actuated valves, in particular for emergency shut-down functions</td>
<td>- For safety-orientated systems up to Safety Integrity SIL 3</td>
</tr>
<tr>
<td>- Extended temperature ranges</td>
<td>- Cover material for outdoor applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Air-recycling feature for 3/2 configuration to eliminate internal actuator corrosion</td>
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</table>
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.

- Reliable and safe position control
- 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
- Push-buttons for programming are located inside the housing for security
- 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

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

Complete solutions from a single supplier

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

Designed for controlling process valves such as a butterfly valve across a wide range of industry sectors

Valve positioning solutions for flow control

High flow version for large actuators

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

Angle seat valve VZXA
- Sizes DN13, DN20, DN25, DN32, DN40, DN50, DN65
- 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
- Polymer actuator
- Eco-brass valve body

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

Sizes available
- 1/2 inch DN13
- 3/4 inch: DN 20
- 1 inch: DN25
- 1 1/4 inch: DN32
- 1 1/2 inch: DN40
- 2 inch: DN50
- 2 1/2 inch: DN65

Accessories
- Pilot valve, VOFX

High flow rate thanks to optimised bore passages in the valve

Modular design simplifies maintenance

Easy to clean process valve and actuator

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

Weeping port allows seal failure detection

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

Optical position indicator Clearly shows the valve position

Sensor bracket as an option for signal feedback

This unique interface between the actuator and the valve body means that the actuator can be replaced during maintenance without breaking the pipework

KEG washing and filling
Water cooling systems
Shut-off control for glycol used in food production

Find out more: www.festo.com/vzxa
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.

Normally closed version (DN15)

- Modular design offers flexibility in both selection and operation
- 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
- Food safe in accordance with regulation (EC) no. 1935/2004 for pinch valves VZQA with silicone and EPDM diaphragms
- Quick and easy replacement of sealing cartridge at any time without the need for special tools.

Pinch valves VZQA

- 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**

- Media pressure up to 6 bar
- Sizes DN6, DN15 and DN25

Materials

- **Housing material**
  - Aluminium
  - Stainless steel

- **End cap material**
  - Aluminium
  - Stainless steel
  - POM (Acetal)
  - Silicone

- **Shut-off element**
  - EPDM
  - NBR
  - Silicone

Accessories

- Sensors
- Pilot valves

Filling applications

Dispensing

...even as a gripper!

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

- For **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

- For **direct acting** – VZWD:
  - High pressures with low flow rates
  - 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

- For **diaphragm valve** – VZWM:
  - Normally open
  - Diaphragm valve
  - Brass or stainless steel casting design
  - Wide range of coils with a variety of different voltages available.
  - "NC and NO versions available

### 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.

- For **Valve terminal – VTUG**:
  - Compact and cost-effective
  - Multi-pin, fieldbus, IO-Link
  - Up to 24 valve positions
  - Degree of protection IP40, IP65, IP67
  - Multiple different pressure zones on one valve terminal
  - Control cabinet optimised version available

- For **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

- For **Valve terminal – CPX**:
  - Modular with remote I/O for NAMUR signals
  - Extremely modular with up to 9 modules per terminal
  - Compatible with PROFIBUS DP, PROFINET, Modbus TCP, DeviceNet and Ethernet/IP
  - Integration of valve terminal and remote I/O on a single platform saves installation space

- For **Valve terminal – CPV10-Ex**:
  - Ideal for explosive areas
  - 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
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.

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.
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.

- **Save time and costs with ready-to-install cabinets**
- **Just one order number for the entire control cabinet**
- **Technology mix from one single source**
- **Provides protection against harsh elements**
- **Stainless steel cabinets also available for use in corrosive environments**
- **Quick and easy maintenance thanks to clearly arranged, neat and compact tubing**

**Options**

- 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
- CE Certification
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.

Online Shop 24h

It's time to enjoy the benefits of online ordering
- 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

www.festo.com/ols

Support Portal

It's time to enjoy the benefits of our support services
- Access to product information and technical documentation
- Full product catalogues and brochures
- Operating instructions
- Audio visual media
- Manuals

www.festo.com/sp

Circuit Diagrams and CAD models

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.

It's time to enjoy the benefits of accessing CAD data
- 2D/3D CAD interfaces for: AutoCAD®; Autodesk® Inventor™; CATIA® V5; Creo®; Pro/ENGINEER®; NX™; SOLID EDGE®; SolidWorks®
- EPLAN macros simplify and speed up electrical design
- FluidDraw for quickly creating electrical and pneumatic circuit diagrams

QuickSearch plus tool

Festo QuickSearch quickly and efficiently provides you with all the information you need about a product. All the functions of our online offer are only a click away. The shopping basket button transfer the active product directly into the online shopping basket. One click on the Festo logo immediately opens the website for the chosen country.

It's time to enjoy the benefits of our QuickSearch plus tool.
- No need to install it because QuickSearch is a self executing file.
- All functions accessible with one click.
- A tool with different online system and interfaces.
- Always up to date.
- Easy access to technical documentation and spare parts catalogue.
## Process Automation solutions – complete portfolio

### Field automation components

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<td>Sensor box SRBC</td>
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<th>Process and media valves</th>
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<table>
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Process automation solutions

Customised systems

Automation concepts

Automation with pneumatic operator panel

Quarter turn actuator DFPD, ball valve VZBE, pilot valve VSNC, sensor box SRBC

Quarter turn actuator DFPD, ball valve VZBD, pilot valve VSNC, sensor box SRBG

Customised control cabinet solution, also for ex zones

Quarter turn actuator DFPD, butterfly valve VZBF, pilot valve VOFC, sensor box SRBC

Pneumatic operator panel

Quarter turn actuator DFPD, butterfly valve VZAV, pilot valve VSNC, sensor box SRBC

Quarter turn actuator DFPD, butterfly valve VZAV, positioner CMSX

Linear actuator DFPI with positioner CMSX

Modular automation

Modular valve terminal CX/MPA

Modular valve terminal CP/MPA

Modular valve terminal CX/HYSA

Modular valve terminal CX/HYTA

Festo Designer
Studio engineering design software for visualisation

CODESYS
PLC development environment

Festo Designer
Studio engineering design software for visualisation

Modular automation

Centralised installation

Units for high and low temperature applications

Hybrid installation (centralised/decentralised)

Quarter turn actuator DFPD with individual swivel angle and integrated speed regulation

Automation with pneumatic operator panel

Control of dart valve for level regulation in mineral processing

Bottle filling applications

Shut-off control for glycol used in food production

High corrosion resistance in extremely dusty and contaminated environments

Application solutions

Control of dart valve for level regulation in mineral processing

Bottle filling applications

Shut-off control for glycol used in food production

High corrosion resistance in extremely dusty and contaminated environments