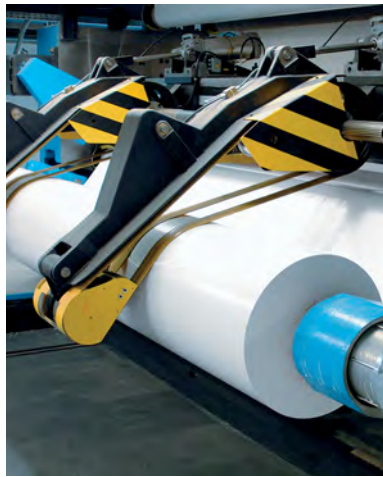


Product Overview

Process Automation

Industries



Paper



Food and Beverage



Water



Electronics and Assembly



Biotech/Pharma



Mining



Chemical



Oil/Gas

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 customized 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.

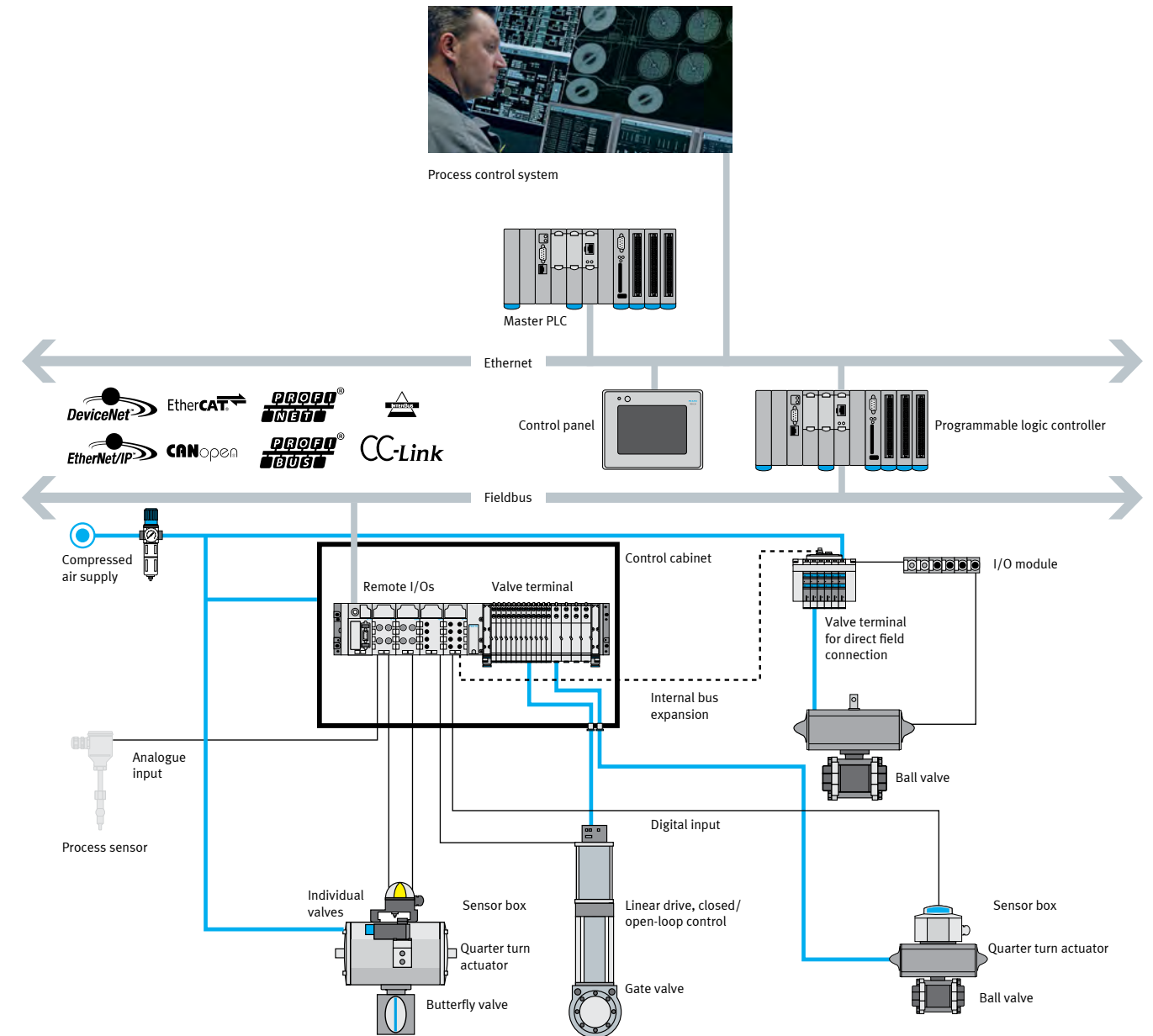
Each year we are keeping abreast with the fast pace of technological progress by continually expanding the range of products for each industry segment. In addition, the functionality of products has been adapted to particular functions of the process technology and process engineering such as explosion protection, corrosion resistant, etc.

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 characterized 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
- Optimized 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



CRN Certified

Hygienic



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

VZBA/VZBE



- 2-way and 3-way
- Stainless steel
- L or T port

VZBF



- Fire safe
- Stainless steel
- ANSI flange

VZBD



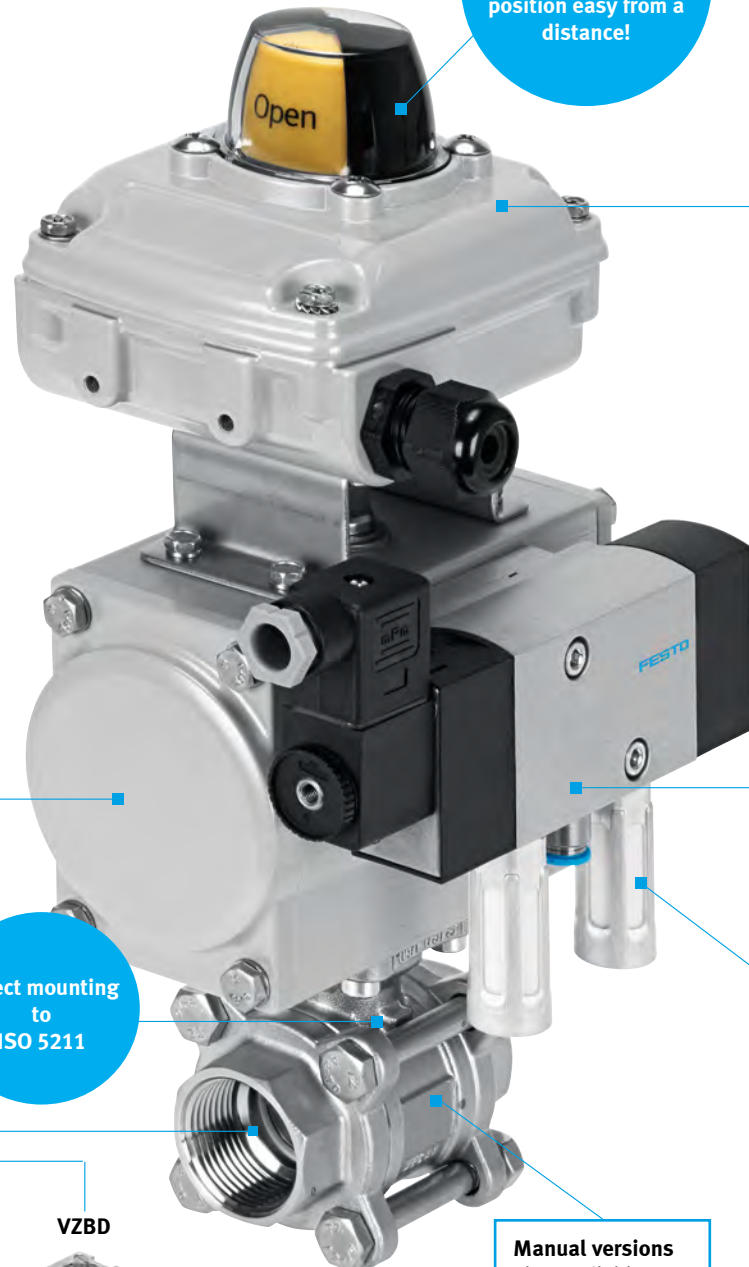
- 3A Sanitary
- Cavity filled
- Weld or tri-clamp

Manual versions also available



Direct mounting to ISO 5211

High visibility indication makes identifying the valve position easy from a distance!



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

Suitable for a wide range of applications in various industries including



Actuated polymer valves for chemical applications



Sanitary and hygienic options for food processes



Ex approved accessories for hazardous areas

Sensor box SRBC

- Weather-tight aluminum 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



For positioning and control - CMSX

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



Standard NAMUR valve VSNC-...F8

- Rotatable seal for 3/2 or 5/2-way function
- Multiple coil voltage options
- Excellent price/performance ratio

Single solenoid 3/2 or 5/2



Double solenoid 5/2 or 5/3



Options

NAMUR valve VSNC-...FN

- Ex solenoid options for hazardous areas
- Aluminum 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
- Stainless steel or Ematel body for corrosive environments
- SIL 3 certified
- Ex solenoid options for hazardous areas



Dual valve option for redundant safety requirements



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.

Suitable for a wide range of applications in various industries including



Food grade options for powder handling



Valve positioning solutions for flow control



Abrasion resistant options for powders and solids

Quarter turn actuator DFPD

- Compact
- Single or double-acting variants
- End-position adjustment at both ends
- Optimized 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



Direct mounting to ISO 5211

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

Manual operators also available



Alternative hygienic solution



Vertical style actuator with Festo manufactured control top also available

Hygienic



- Food applications
- EDPM, FPM or Silicone seat
- DN25 to DN100

VZAF



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

Sensor box SRBC

- Weather-tight aluminum 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



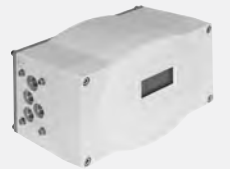
Sensor box SRBG

- Compact design
- Inductive dual sensor
- Direct mounting to VDI/VDE 3845
- M12 or terminal port connection
- ASi interface compatible



For positioning and control - CMSX

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



Standard NAMUR valve VSNC-...F8

- Rotatable seal for 3/2 or 5/2-way function
- Multiple coil voltage options
- Excellent price/performance ratio

Single solenoid 3/2 or 5/2



Double solenoid 5/2 or 5/3



Options

NAMUR valve VSNC-...FN

- Ex solenoid options for hazardous areas
- Aluminum 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
- Stainless steel or Ematel body for corrosive environments
- SIL 3 certified
- Ex solenoid options for hazardous areas

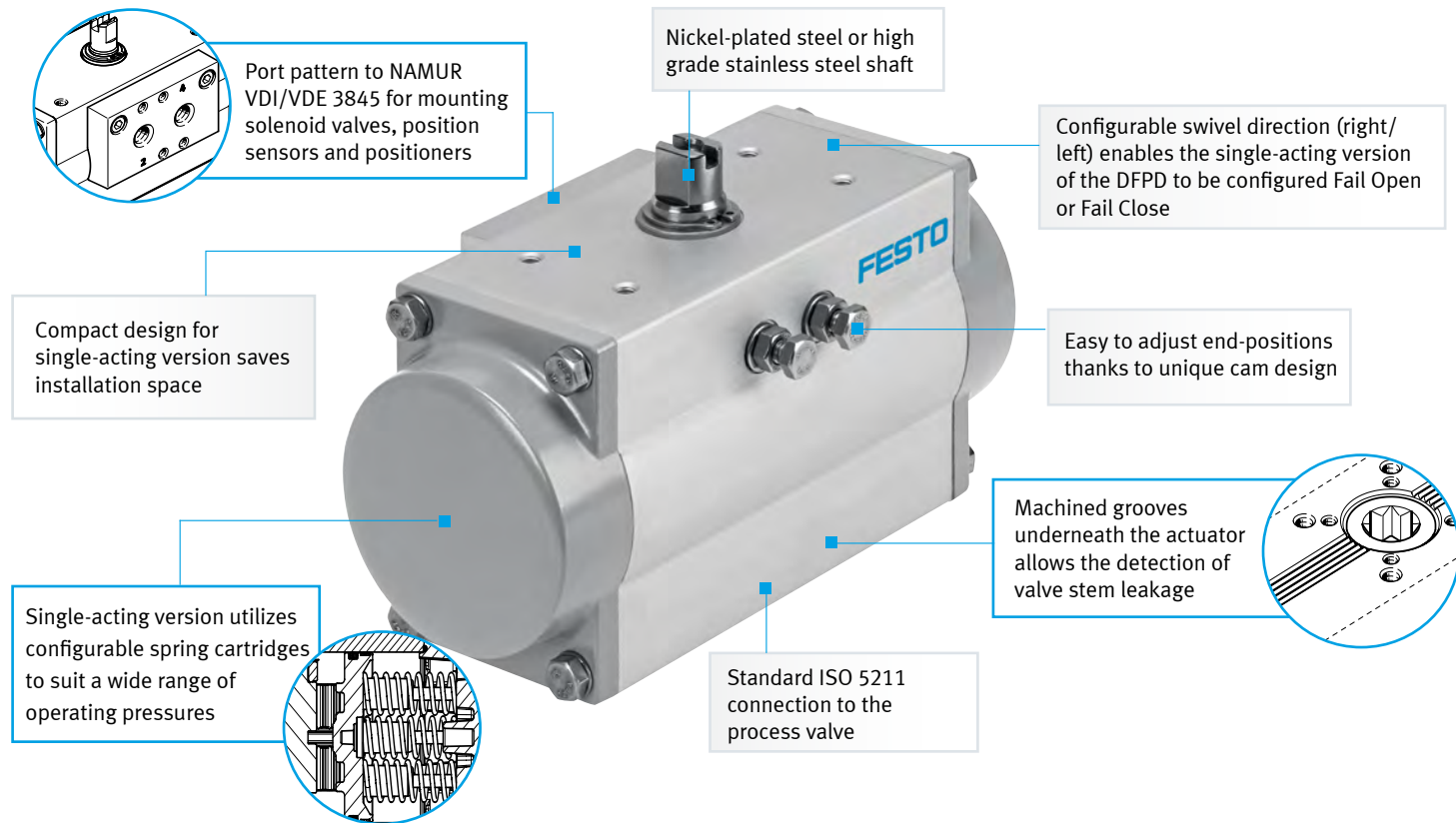


Dual valve option for redundant safety requirements







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.



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.

<p>Sensor box SRBC</p> <p>Sturdy design for harsh conditions</p>  <ul style="list-style-type: none"> • Weather-tight housing for outdoor applications • Mechanical, inductive or magnetic switch variants • Clearly visible position indicator for detection of current position • NEMA 4/4X • IP67 / SIL 2 / CSA 	<p>Sensor box SRBE</p> <p>Ideal for explosive atmospheres</p>  <ul style="list-style-type: none"> • Flame-proof enclosure enables installation without safety barriers • Ex approved for hazardous area installations • NEMA 4/4X • IP67 / SIL 2 / CSA 	<p>Sensor box SRBG</p> <p>Compact design for tight installations</p>  <ul style="list-style-type: none"> • Direct mounting with minimal space required • Inductive dual sensor • Ex version for hazardous areas • M12 or terminal port connection • ASi interface compatible • IP67 / CSA / cULus 	<p>Limit switch DAPZ...AR</p> <p>Provides 3-way indication</p>  <ul style="list-style-type: none"> • Micro switch or inductive sensor for position sensing • Integrated solenoid valve actuation • IP67 rating for water and dust resistance
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<p>Quarter turn actuator DFPD - Double and single acting Variants</p> <ul style="list-style-type: none"> • 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 	<p>Completely automated process valves from a single supplier</p> <p>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.</p> 
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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.

<p>NAMUR valve VSNC</p> <p>One solution for single and double acting actuators</p>  <ul style="list-style-type: none"> • 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 	<p>NAMUR valve VSNC-Ex</p> <p>Ex-approved for hazardous areas</p>  <ul style="list-style-type: none"> • Optimized 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 	<p>Pilot valve VOFD</p> <p>Extremely sturdy and corrosion resistant</p>  <ul style="list-style-type: none"> • 3/2-way Normally closed (NC), single solenoid • For outdoor use under harsh ambient conditions • Extremely reliable for direct actuated valves, in particular for emergency shut-down functions 	<p>Pilot valve VOFC</p> <p>Reliable use under tough conditions</p>  <ul style="list-style-type: none"> • 3/2-way, 5/2-way single and double solenoid • Ematal surface treatment offers long lasting protection against wear and corrosion • For safety-orientated systems up to Safety Integrity SIL 3
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Extreme temperature environments



High corrosion resistance in harsh operating environments

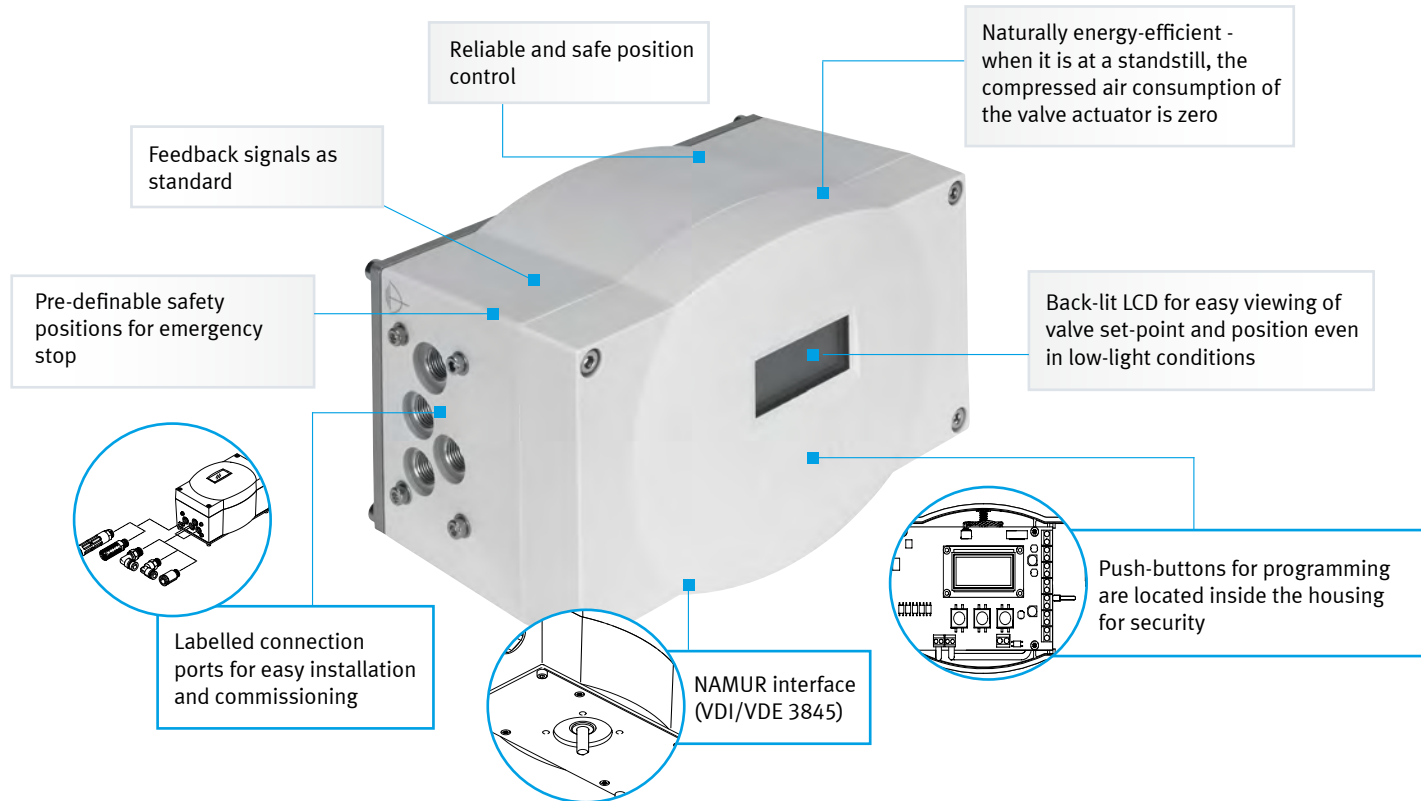


Compact design for tight installation spaces

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

Positioner - CMSX

The newly optimized 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.



Positioner for linear and quarter turn actuators CMSX

- Reliable position control
- Analog 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 liters/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.



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



Valve positioning solutions for flow control

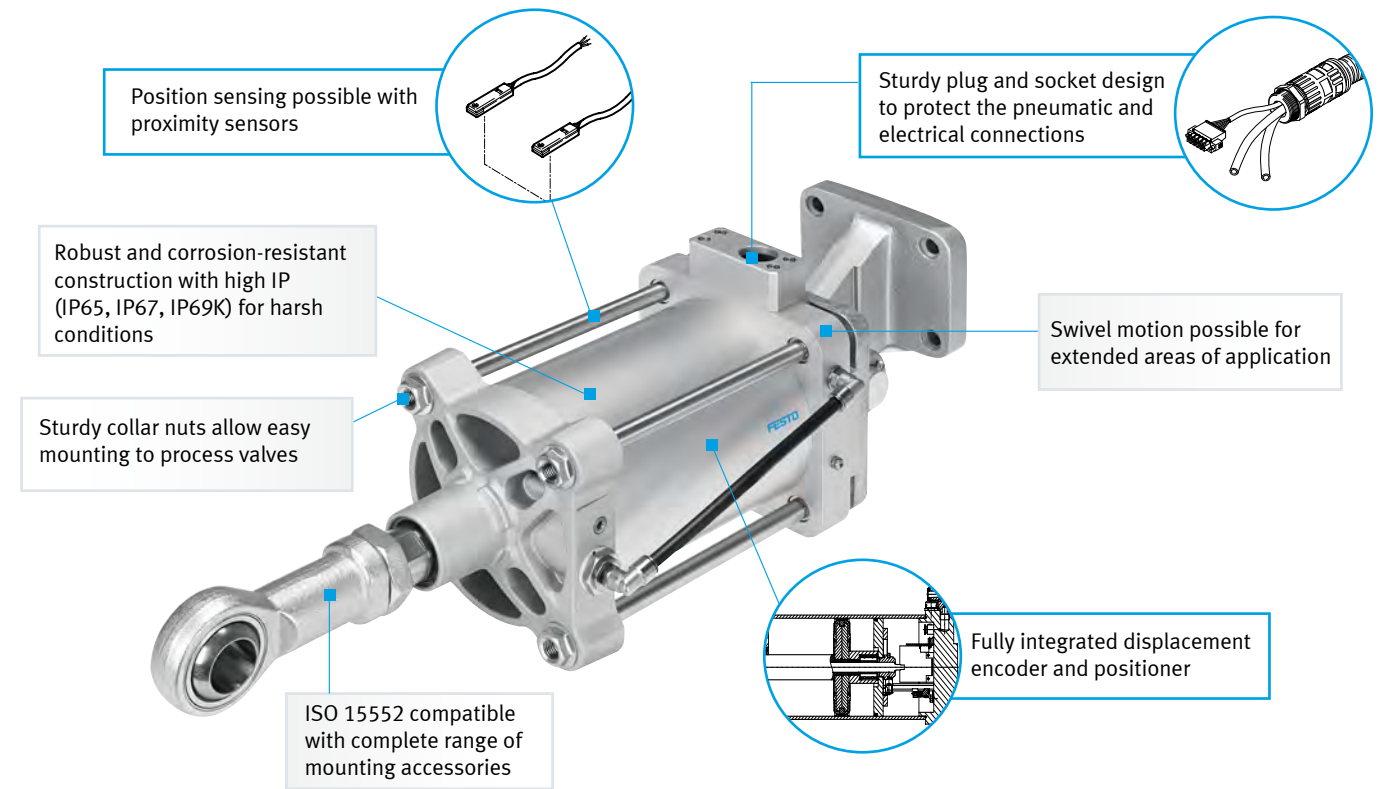


High flow version for large actuators

Find out more:
→ www.festo.com/cmsx

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 optimized 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.



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 3358



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

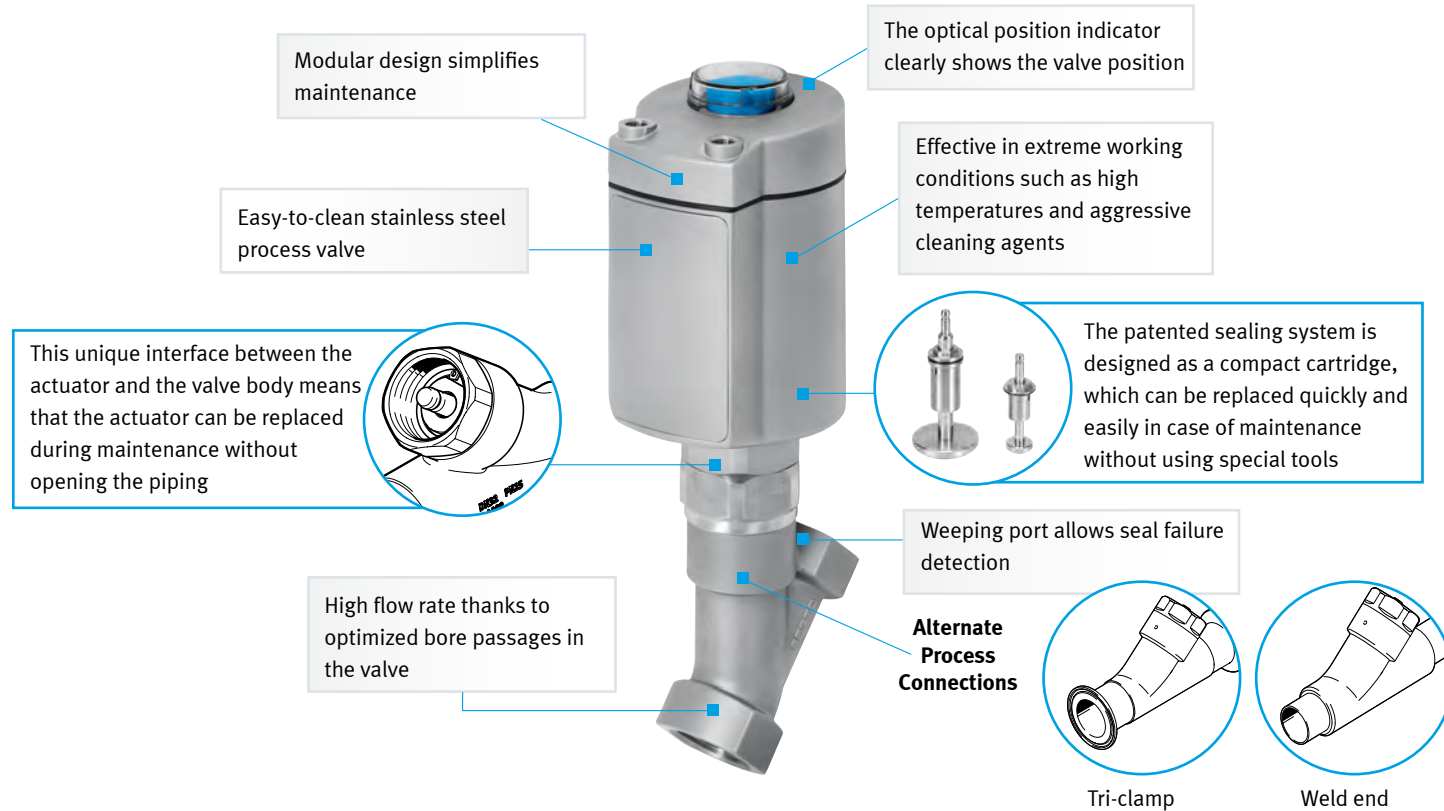


Control of silo discharge in fertilizer processing

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.



Angle seat valves VZXA

- 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

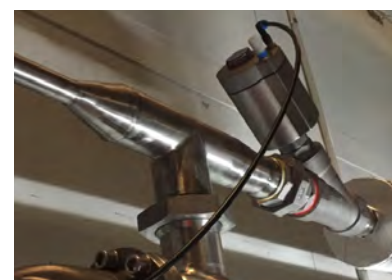
- Piston style actuator with optical indicator
- Normally closed (NC) with threaded connection
- High temperature version for steam
- Vacuum rated



KEG washing and filling



Water cooling systems



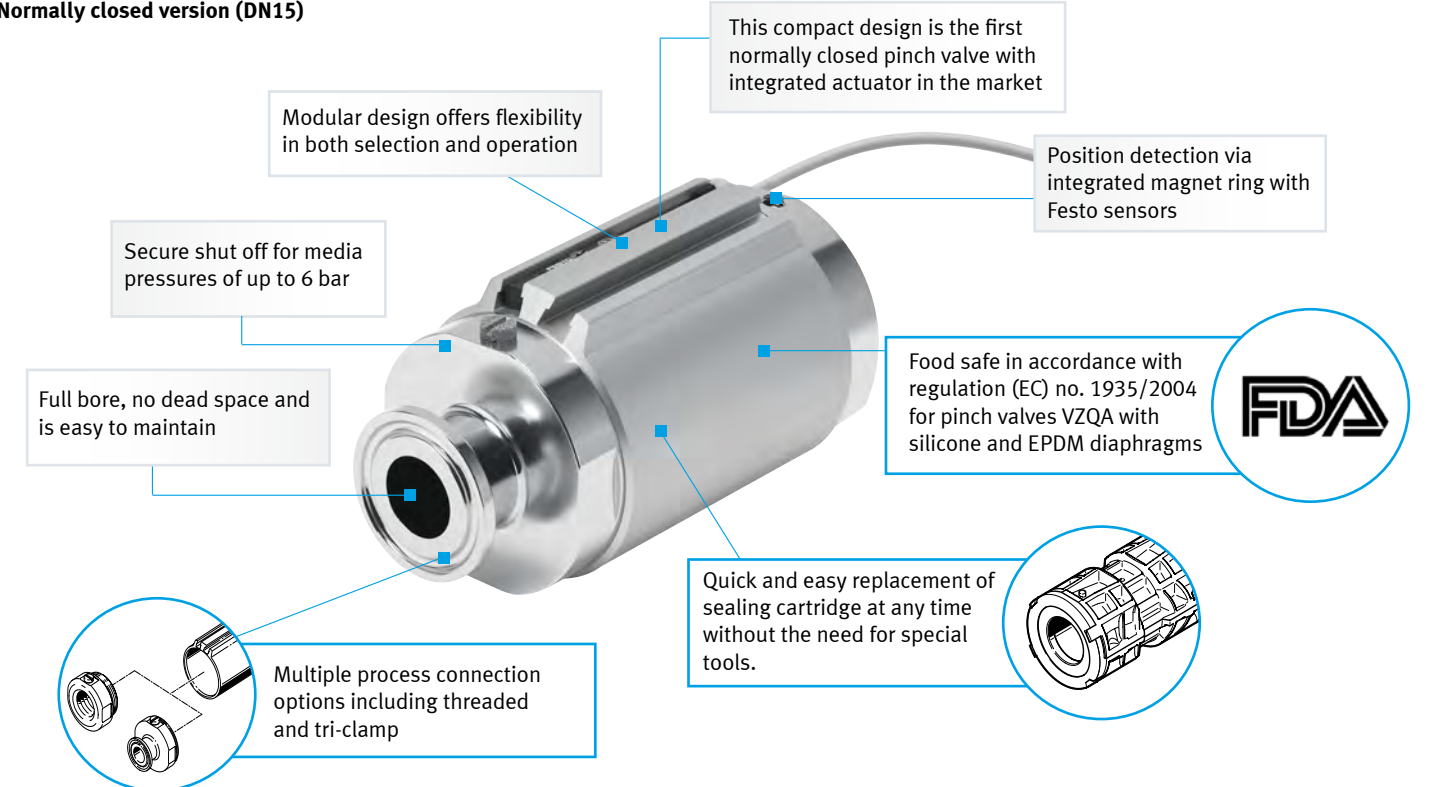
Shut-off control for glycol used in food production

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)



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

Materials

- Housing material**
- Aluminum
 - Stainless steel

- End cap material**
- Aluminum
 - Stainless steel
 - POM (Acetal)

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



Filling applications



Dispensing



...even as a gripper!

Find out more:
→ 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.

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

High pressures with low flow rates



- Operates without differential pressure at up to 90 bar, even in closed media circuits
- Valve switches at any pressure from 0 bar
- Normally closed (NC) function
- 3/2-way version available for piloting process valves

Diaphragm valve VZWM

Normally open



- Diaphragm valve
- Brass or stainless steel casting design
- Wide range of coils with a variety of different voltages available.
- Normally closed (NC) and Normally open (NO) versions available
- Variety of different voltages 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.

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 optimized version available
- T-Profile (NEMA 4X)

Valve terminal MPA

High performing and expandable series



- High performance valves in sturdy metal housing
- With multi-pin plug, ASi, 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

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

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
- Optimized for control cabinets

Air Preparation

A pneumatic system is not complete unless you have considered the right air preparation and accessories. 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



- Simple or complex applications
- Individual or pre-assembled units
- Integrated functions such as safety and energy efficiency
- Sturdy housing
- Easily expandable
- Size range from 1/8" up to 2"

Air preparation D

Air prep for standard applications



- Basic functions for standard applications
- Individual or combination units for complete solution
- Sizes from 1/8" up to 1"
- Aluminum housing and metal bowl guards
- 3 grid sizes MINI, MIDI and MAXI
- Accessories available

Filter regulator PCRP

For harsh environments



- 316 stainless steel housing and internal metal parts
- Sizes 1/4" and 1/2"
- Available in low temperature down to -60° C
- ATEX Zone 1

Filter regulator LFR-EX

Explosion protection included



- Coated zinc and aluminum body
- Sizes 1/4" and 1/2"
- Available in low temperature down to -40° C
- ATEX Zone 1

Sensors

Festo caters to 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

Ideal for pressure and vacuum sensing



- Pressure and vacuum sensing for gaseous and liquid media
- High media resistance
- Pneumatic connection G1/4 female thread
- Electrical connection via M12, 4-Pin
- Accuracy $\pm 1\%$ FS
- Repeatability $\pm 0.1\%$ FS

Pressure transmitter SPAW

Perfect for measuring media pressures



- For liquid and gaseous media, pressure and vacuum
- 4-digit LED display, with display options - Bar, MPA, kPA, Psi, Kg/cm²
- Electrical connection 4-pin Plug M12x1 or 5 pin Plug M12x1
- Accuracy $\pm 1\%$ FS
- Repeatability $\pm 0.1\%$ FS

Flow sensor SFAW

The easy way to monitor fluids



- Measures flow rate, consumption and temperature of neutral liquid media
- The display and the housing can be freely rotated
- IO-Link support
- Easy to replace the sensor and fittings

Cylinder sensor CRSMT

Cylinder sensors for outdoor use



- Suitable for outdoor use and washdown applications
- Resistant to oils, acids and alkalis
- Recommended for use with Festo cylinders DFPI and DSBG

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

Stainless steel cabinets also available for use in corrosive environments

Provides protection against harsh elements

Quick and easy maintenance thanks to clearly arranged, neat and compact tubing

Technology mix from one single source

Integration of pneumatic and electrical system completely designed and assembled

Labelling of the connections in the control cabinet and in the documentation

Options



For hazardous areas with intrinsically safe valve terminals CPV10-Ex



Protection from dust or liquids as per protection class 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

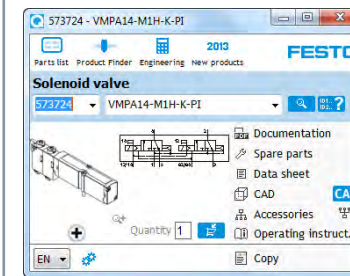
- Individually configured
- Adapted to specific requirements in process automation
- Design and sizing included
- Fully tested system
- You receive detailed system documentation:
 - Assembly drawings
 - Parts list
 - Circuit diagrams
 - Operating instructions for components



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 modernization of your machine, you will come across a number of different tools which will be of use to you.

Quick Search Plus Application



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

It's time to take advantage of the tools that save you valuable time

- 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

Online Shop 24h



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

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

Stars of Automation



The "Stars of Automation" offers thousands of products including valves, cylinders, service units, sensors and accessories. In our Online catalog, the "Stars of Automation" are noted with a solid blue star to quickly see what products are available to be shipped within 24 hours.

It's time to enjoy the Festo quality for a great value

- Ready for delivery in 24 hours from Festo stock
- Globally in 13 Regional Service Centers in stock
- 4,000 part numbers
- Festo quality at an attractive price

→ www.festo.com/stars

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.

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

Process Automation Solutions - Complete Portfolio

	Field automation components	Process valve units (selected examples)	Customized systems	Automation concepts	Application solutions
Operator level	<p>Front-end Front-end display CDPX 4" (touchscreen) Front-end display CDPX 7" (touchscreen) Front-end display CDPX 10" (touchscreen) Front-end display CDPX 13" (touchscreen)</p>	<p>Festo Designer Studio engineering design software for visualisation</p>	<p>Customized control cabinet solution, also for ex zones</p>	<p>Modular automation</p>	<p>Control of dart valve for level regulation in mineral processing</p>
Control level Controllers	<p>Integrated controller CPX-CEC Modular controller CECC Compact controller CECC Integrated controller CDPX-CEC</p>	<p>CODESYS PLC development environment</p>	<p>Pneumatic operator panel</p>	<p>Hybrid installation (centralized/decentralized)</p>	<p>Bottle filling applications</p>
Remote I/O	<p>Electrical terminal CPI Electrical connecting block CAPC Modular electrical terminal CPX Modular electrical terminal CPX-P Operator unit MMI</p>	<p>Modular valve terminal CPX/MPA Modular valve terminal CPX-P/MPA Modular valve terminal CPX/VTSA</p>	<p>EtherNet/IP DeviceNet CC-Link CANopen EtherCAT INTERBUS Modbus</p>	<p>Valve control unit for controlling disc and double-seated valves</p>	<p>Abrasion resistant options for powders and solids</p>
Valve terminals	<p>Valve terminal CPV Valve terminal CPV Ex-i for use in Ex zones Valve terminal MPA/MPA-F Valve terminal MPA-C (Clean Design) Valve terminal VTUG Valve terminal VTUG optimized for control cabinet installation Valve terminal VTSA/VTSA-F Valve terminal CDVI Motion Terminal VTEM</p>	<p>Quarter turn actuator DFPD, ball valve VZBE, pilot valve VSNK, sensor box SRBC Quarter turn actuator DFPD, ball valve VZBD, pilot valve VSNK, sensor box SRBG</p>	<p>Linear actuator DFPD with positioner CMSX</p>	<p>Centralized installation</p>	<p>Shut-off control for glycol used in food production</p>
Field level Solenoid valves	<p>Pilot valve VSNK (NAMUR) Pilot valve VSNK-Ex (NAMUR) Pilot valve VOFC (NAMUR) Pilot valve VOFD (NAMUR + thread) Pilot valve MFH Pilot valve VUVS Directional control valve VUVG Proportional pressure regulator VPPX</p>	<p>Quarter turn actuator DFPD, butterfly valve VZAV, positioner CMSX</p>	<p>Quarter turn actuator DFPD with individual swivel angle and integrated speed regulation</p>	<p>Automation with pneumatic operator panel</p>	<p>High corrosion resistance in extremely dusty and contaminated environments</p>
Sensors and positioners	<p>Sensor box SRBC Sensor box SRBE (flameproof enclosure) Sensor box SRBG (inductive double sensor) Analogue sensor box SRAP Positioner for quarter turn and linear actuators CMSX Proximity sensor SME/SMT Pressure sensor SPAW for gases/liquids Pressure transmitter SPTW for gases/liquids Flow sensor SFAB for compressed air/nitrogen Flow sensor SFAW for fluids</p>	<p>Quarter turn actuator DFPD Quarter turn actuator DAPS Quarter turn actuator, stainless steel DAPS-CR Quarter turn actuator with handwheel DAPS-MW Heavy-duty quarter turn actuator DFPD-HD Linear actuator DLP Closed-loop controlled linear actuator DFP Closed-loop controlled linear actuator to ISO 15552 DFP-NB3</p>	<p>Units for high and low temperature applications</p>	<p>Hall and robot installation plates</p>	
Actuators	<p>Quarter turn actuator DFPD Quarter turn actuator DAPS Quarter turn actuator, stainless steel DAPS-CR Quarter turn actuator with handwheel DAPS-MW Heavy-duty quarter turn actuator DFPD-HD Linear actuator DLP Closed-loop controlled linear actuator DFP Closed-loop controlled linear actuator to ISO 15552 DFP-NB3</p>	<p>Modular angle seat valve VZKA Pinch valve VZQA (NO/NC) Directly actuated valve VZWD Piloted valve VZWM/VZWP Force pilot operated valve VZWF Pneumatic diaphragm valve VLX Reverse jet pulse valve VZWE Ball valve VZBM/VZBM Ball valve VZBD/VZBD Butterfly valve VZAF/VZAF Knife gate valve VZKA</p>	<p>Linear actuator DLP with knife gate valve VZKA</p>		
Process and media valves	<p>Modular angle seat valve VZKA Pinch valve VZQA (NO/NC) Directly actuated valve VZWD Piloted valve VZWM/VZWP Force pilot operated valve VZWF Pneumatic diaphragm valve VLX Reverse jet pulse valve VZWE Ball valve VZBM/VZBM Ball valve VZBD/VZBD Butterfly valve VZAF/VZAF Knife gate valve VZKA</p>	<p>Service units Air dryers Couplings Push-in fittings Plastic tubing Polytetrafluoroethylene tubing PTFE Pressure booster DPA Compressed air reservoirs</p>			
Accessories	<p>Service units Air dryers Couplings Push-in fittings Plastic tubing Polytetrafluoroethylene tubing PTFE Pressure booster DPA Compressed air reservoirs</p>				

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