Product Overview

Process Automation

FESTO

Industries

Printing, Paper and Converting

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, limit switches and positioners, actuators, process and media valves, compressed air preparation and pneumatic connection technology.
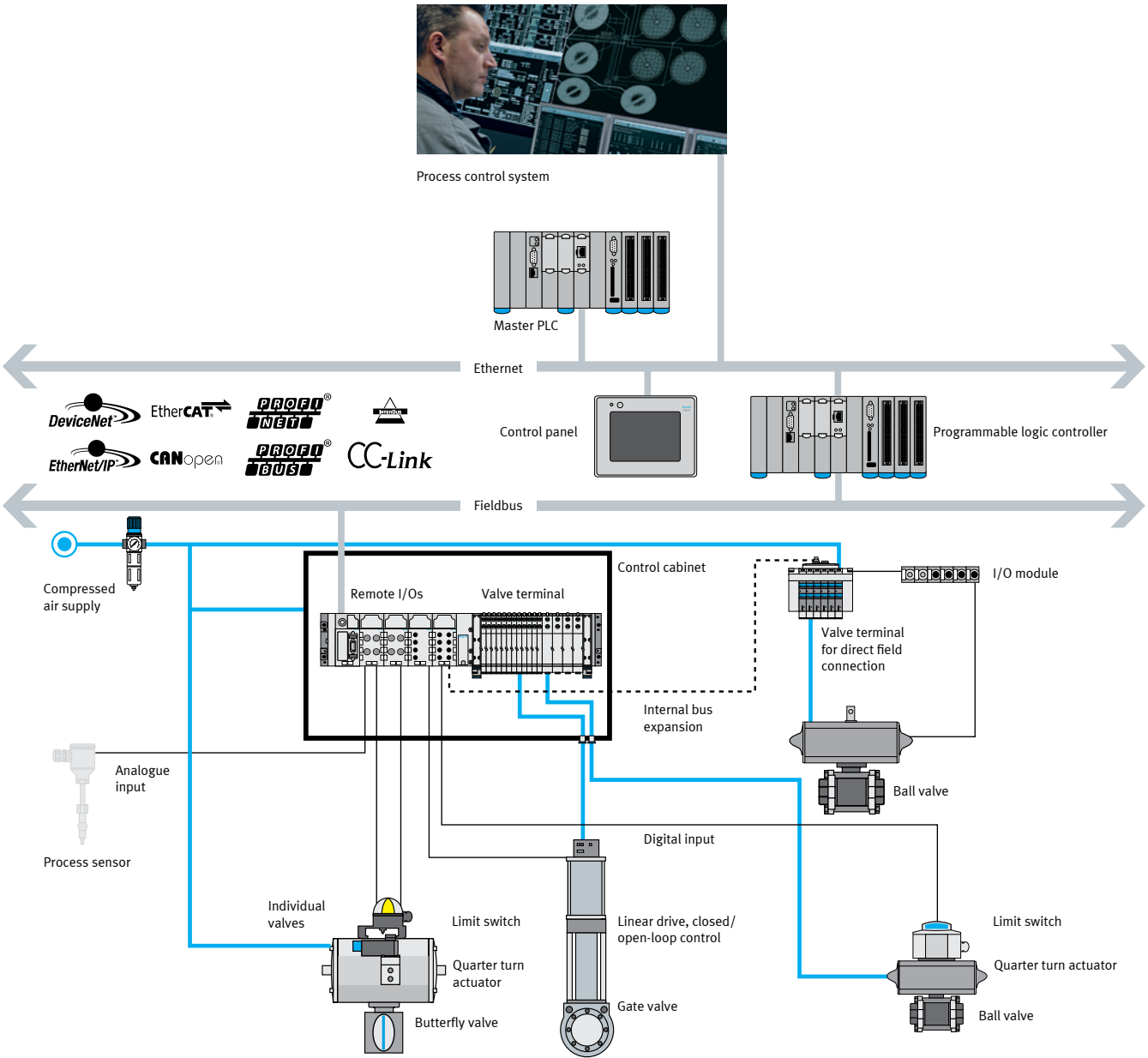
Each year we are keeping abreast with the fast pace of technological progress by continually expanding the range of products for each industry segment. In addition, the functionality of products has been adapted to particular functions of the process technology and process engineering such as explosion 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

Process control system

Master PLC

Ethernet

DeviceNet
EtherCAT
PROFINET
EtherNet/IP
CANopen
PROFIBUS
CC-Link

Control panel

Programmable logic controller

Fieldbus

Compressed air supply

Control cabinet

Remote I/Os   Valve terminal

I/O module

Valve terminal for direct field connection

Internal bus expansion

Ball valve

Analogue input

Process sensor

Digital input

Individual valves

Limit switch

Quarter turn actuator

Butterfly valve

Linear drive, closed/open-loop control

Gate valve

Limit switch

Quarter turn actuator

Ball valve

Actuated Ball Valve Assemblies - KVZB

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.

Limit switch SRBC
- Weather-tight aluminum housing for outdoor applications
- Mechanical, inductive or magnetic switch variants

Alternative
Puck Sensor SRBG
- Compact design
- Inductive dual sensor
- M12 or terminal port connection

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

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

Options
- Corrosion resistant version with epoxy coating and stainless steel shaft

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

Direct mounting to ISO 5211

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).

- CF8M body and ball material
- Reinforced PTFE seals
- Standard North American connections

CRN Certified

VZBA/VZBE	**VZBF**	**VZBD**	**Manual versions** also available
• 2-way and 3-way	• Fire safe	• 3A Sanitary	
• Stainless steel	• Stainless steel	• Cavity filled	
• L or T port	• ANSI flange	• Weld or tri-clamp	

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

Create your flow: with ball valve units KVZB

festo.com/kvzb
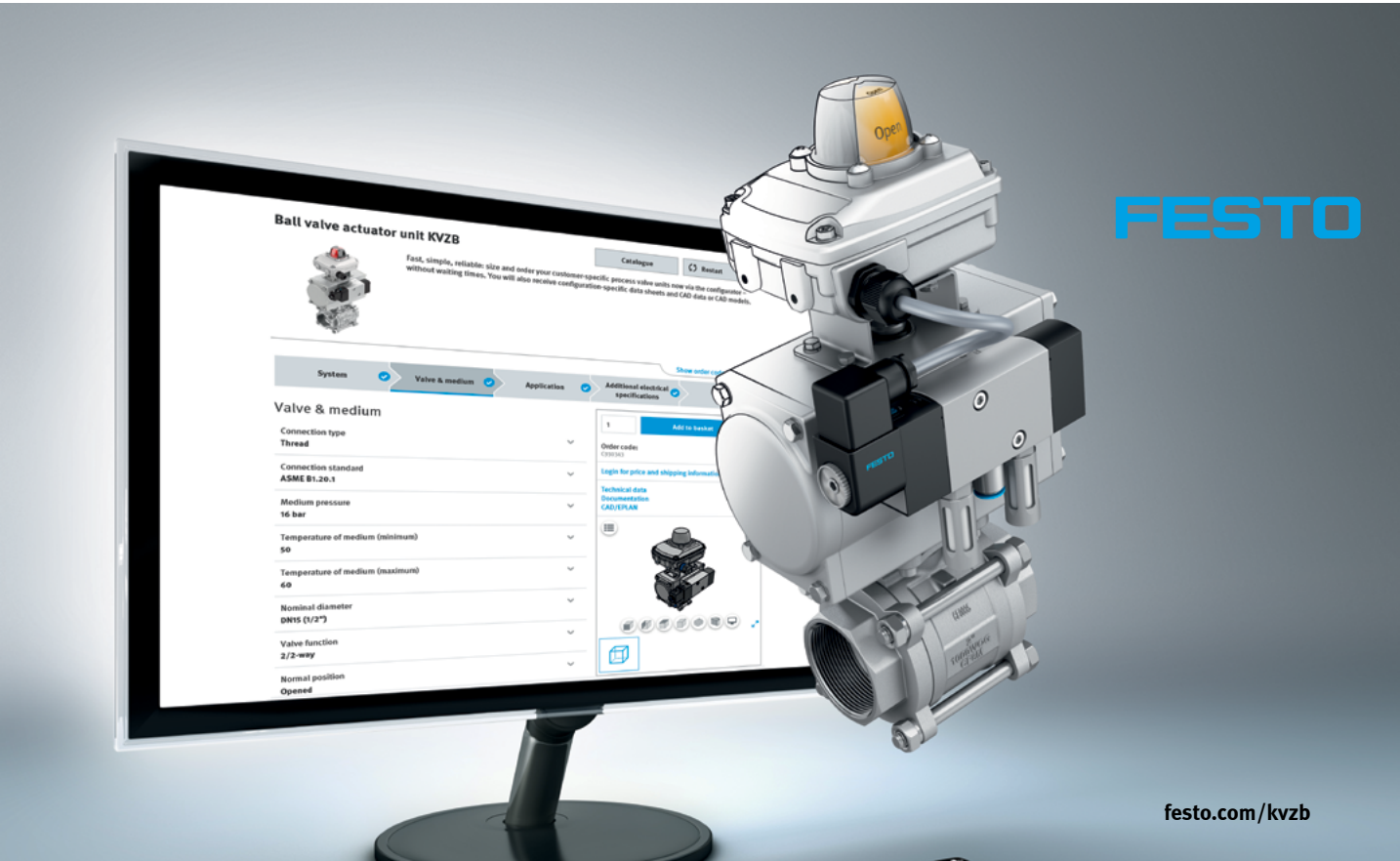
Do you need to move your media from A to B with full available pipe diameter for flow? The Festo ball valve units KVZB with a particularly high flow factor. Design the optimum ball valve units in the shortest possible time. Determine every detail to create the perfect solution for your needs.
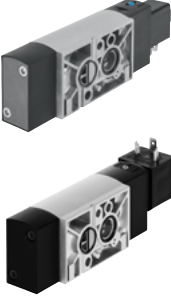
Standard NAMUR valve VSNC-...F8
- Rotatable seal for 3/2 or 5/2-way function
- Multiple coil voltage options
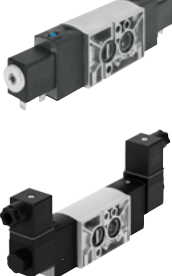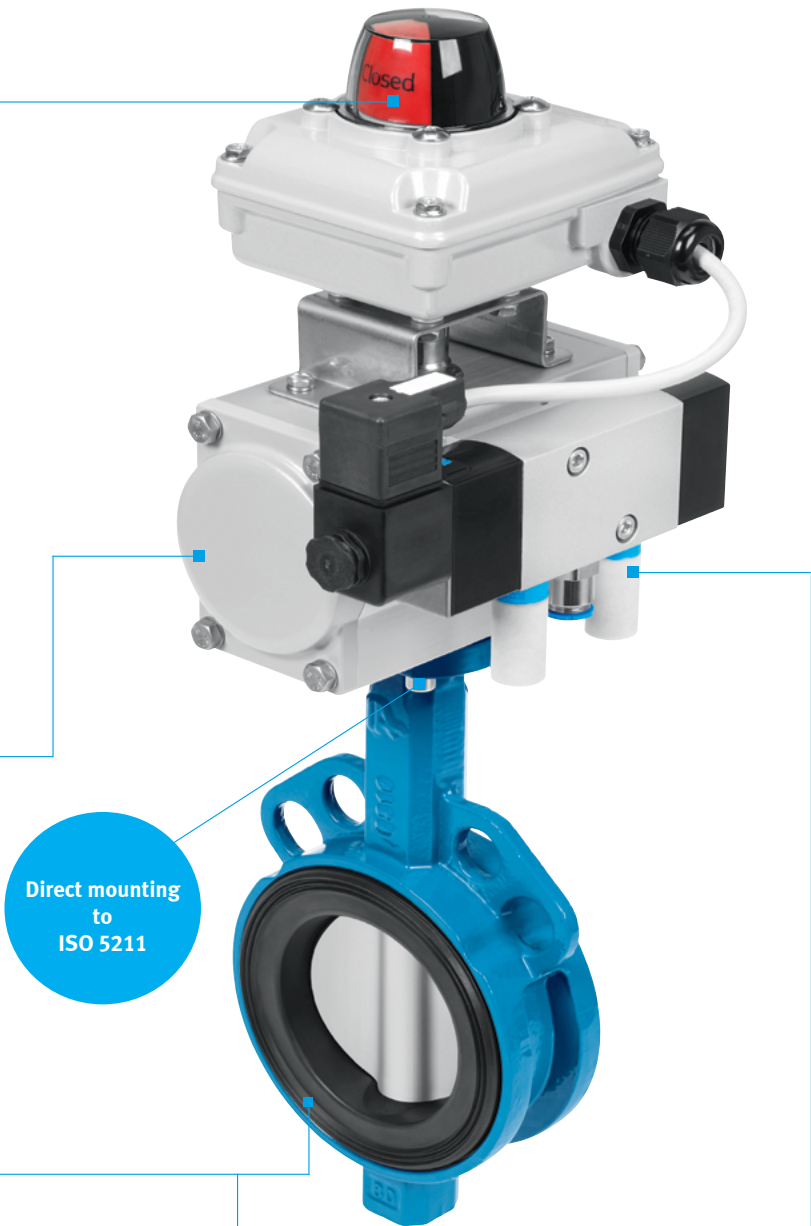- Excellent price/performance ratio

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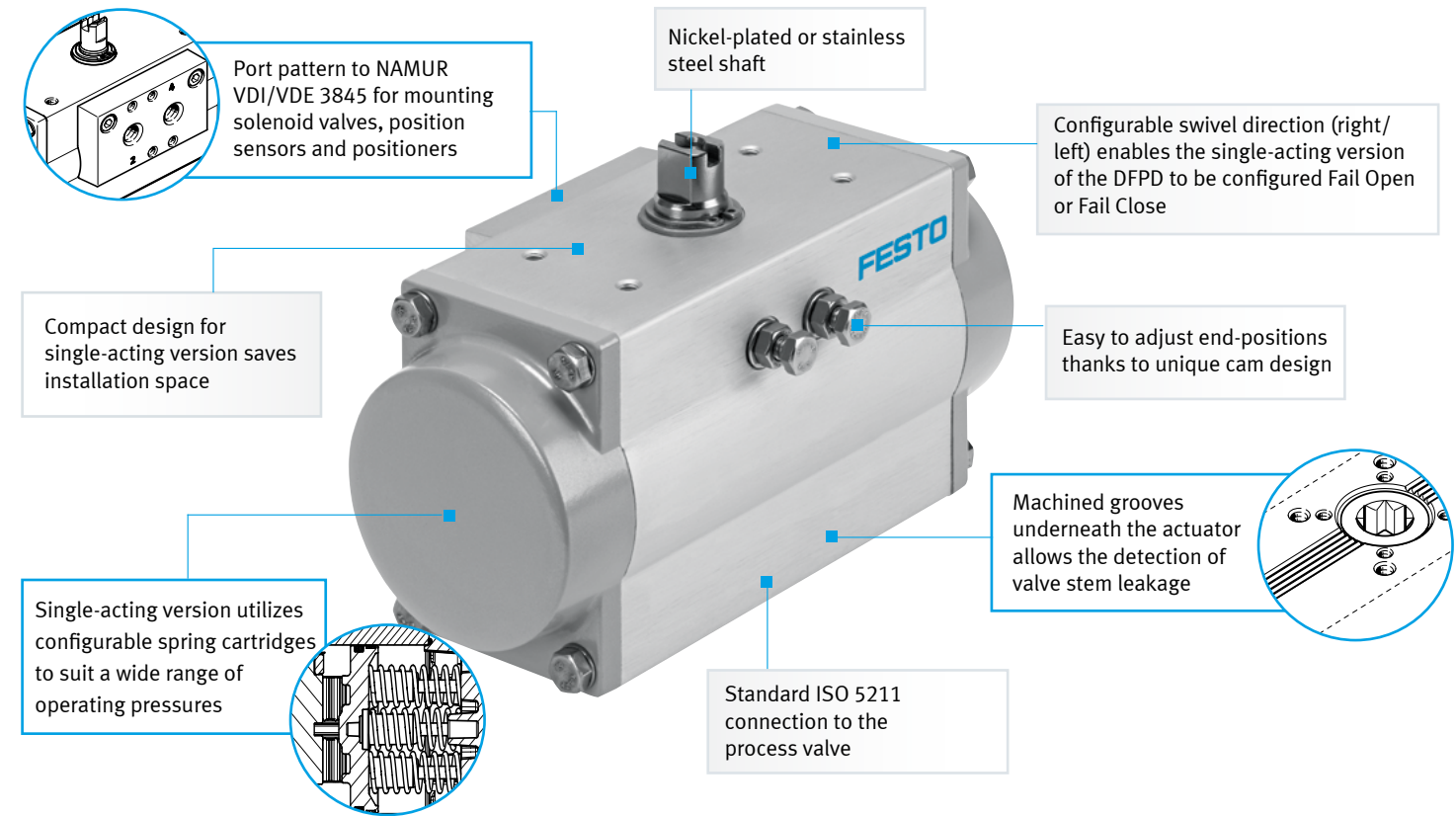**NAMUR valve VSNC-...FN**
- Ex solenoid options for hazardous areas
- Aluminum alloy cover material for outdoor applications

Single solenoid 3/2 or 5/2

Double solenoid 5/2 or 5/3

Actuated Butterfly Valve Assemblies - KVZA

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.

Limit switch SRBC
- Weather-tight aluminum housing for outdoor applications
- Mechanical, inductive or magnetic switch variants

Alternative
Puck sensor SRBG
- Compact design
- Inductive dual sensor
- M12 or terminal port connection

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

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

Options
- Corrosion resistant version with epoxy coating and stainless steel shaft

Direct mounting to ISO 5211

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
- Wafer and lugged ANSI connections

VZAV
- Standard applications

VZAF
- Corrosive/high purity application
- Stainless steel optional

Manual operators
also available

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

Create your flow: with butterfly valve units KVZA

festo.com/kvza

Do you need a robust valve to control flows in small and large pipes? From the manually operated to the fully automated process valve: With the configurator for butterfly valve units you will find the right solution. Put together your optimum butterfly valve unit KVZA in just a few minutes.

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
- Aluminum alloy cover material for outdoor applications

Single solenoid 3/2 or 5/2

Double solenoid 3/2 or 5/2

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.

Nickel-plated or stainless steel shaft

Port pattern to NAMUR VDI/VDE 3845 for mounting solenoid valves, position sensors and positioners

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

Compact design for single-acting version saves installation space

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 utilizes 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

- Corrosion resistant version with epoxy coating and stainless steel shaft

- Low and high temperature versions from -50 ºC to 150 ºC for extreme operating conditions

- Chemical version suitable for
- chemical industry with blow-out
- proof adjustment screws

Completely automated process valves from a single supplier
When combined with a limit switch, a pilot valve or positioner, the quarter turn actuator DFPD forms part of a complete automated process valve assembly.

Extreme temperature environments

High corrosion resistance in harsh operating environments

Compact design for tight installation spaces

Find out more:
→ **www.festo.com/dfpd**

Limit Switch - SRBC/SRBE

Limit switches are used for electrical feedback of the position of process actuated valves with pneumatic quarter turn actuators. They are designed for quick and easy mounting to reduce installation effort. The SRBC is intended for use in general purpose applications while the SRBE is suitable for hazardous locations requiring an explosion-proof or flameproof protection method.

Explosion proof rated enclosure for hazardous locations

Clearly visible position indicator for detection of current position

Mechanical, inductive or magnetic switch variants

Weather-tight housing for outdoor applications

Find out more:
→ **www.festo.com/srbc**

Find out more:
→ **www.festo.com/srbe**
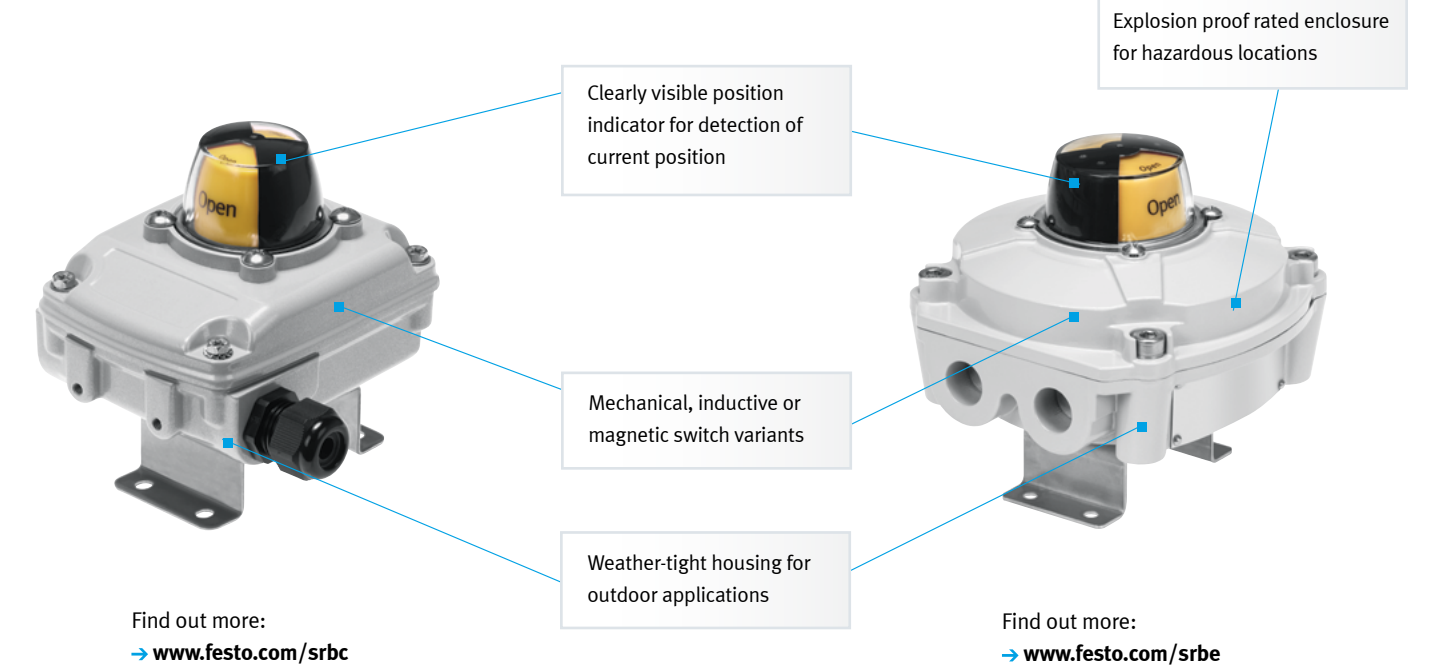
Puck Sensor – SRBG/SRBI

Puck sensors are a common alternative to limit switch boxes. Like their counterparts, they are used for electrical feedback and are quick and easy to mount onto quarter turn actuators. The SRBG is suitable for most applications and has a wide range of options, while the SRBI is a cost effective alternative typically only used on smaller actuators.

ASi interface optional

Dual inductive sensor

Dual inductive sensor

M12 or terminal port connection

Direct mounting with minimal space required

Find out more:
→ **www.festo.com/srbg**

Find out more:
→ **www.festo.com/srbi**
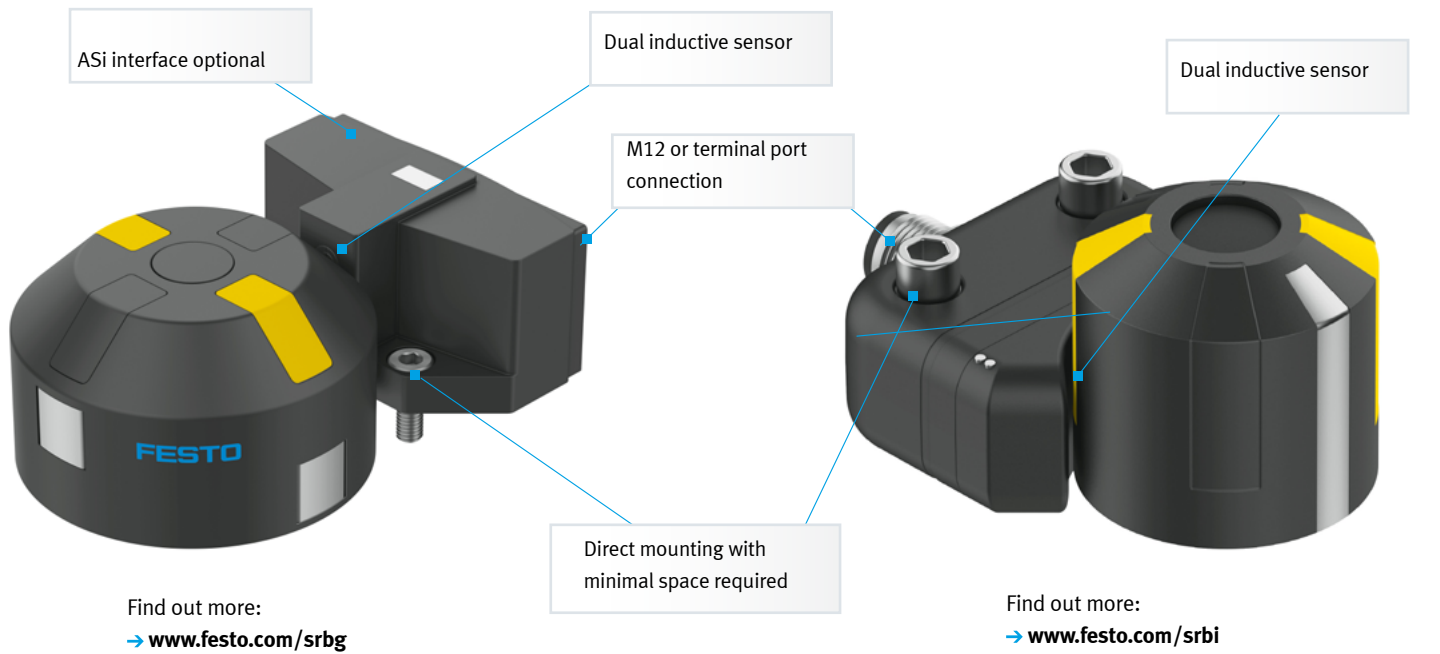
NAMUR Valve – VSNC

NAMUR valves are pilot valves that mount directly to quarter turn actuators. They are designed to automate process valves and actuators safely and reliably. The VSNC comes with a wide range of variants including intrinsically safe and explosion proof coils suitable for hazardous locations.

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

Multiple coil voltage options

Intrinsically safe and explosion proof coils available

Air-recycling feature for 3/2 configuration to eliminate internal actuator corrosion

Spool or poppet design
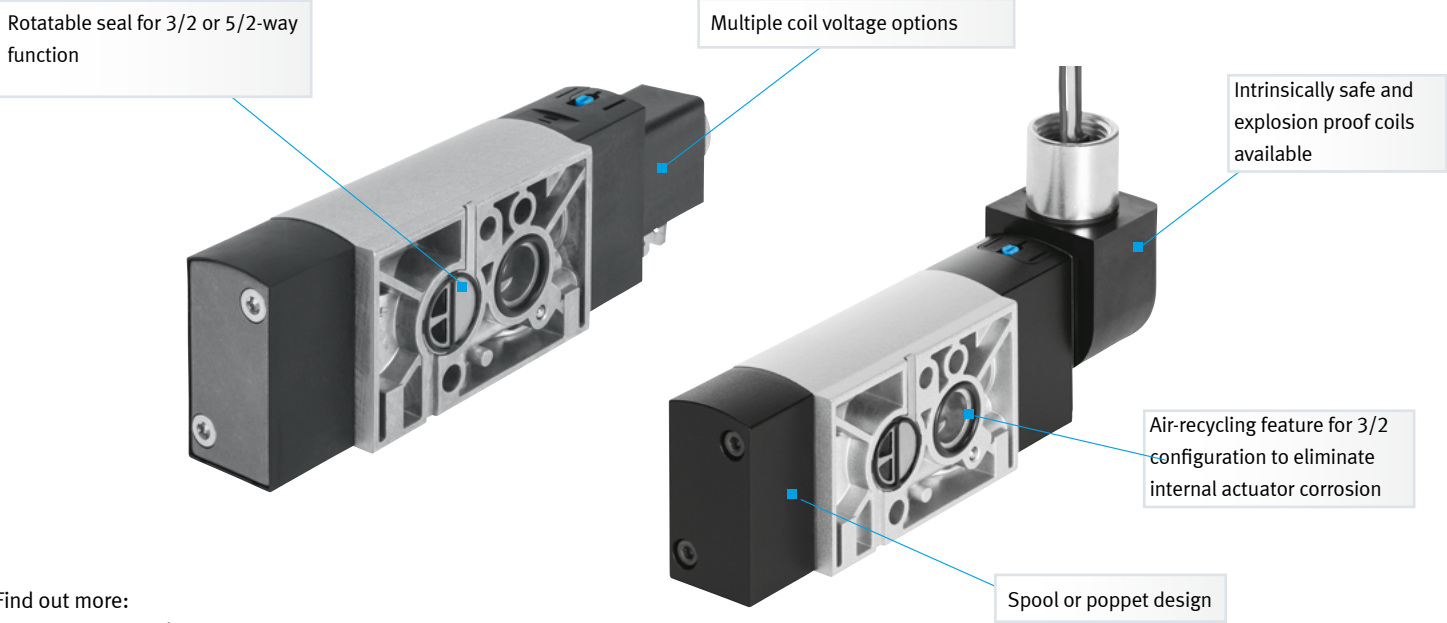
Find out more:
→ **www.festo.com/vsnc**

Pilot Valve – VOFC/VOFD

These special pilot valves are used in process applications that require the existence of safety architecture. With a SIL3 safety integrity level rating, these valves can be found in various industries, including chemical, petrochemical, and oil and gas. The VOFC is pilot-operated, while the VOFD is direct-acting, making it suitable for emergency shutdown (ESD) applications.

3/2-way single, closed, single solenoid

3/2-way, 5/2-way single and double solenoid

Flexibility to change between internal and external pilot air

Ematal surface treatment offers long lasting protection against wear and corrosion

Extremely reliable for direct actuated valves, in particular for emergency shut-down functions
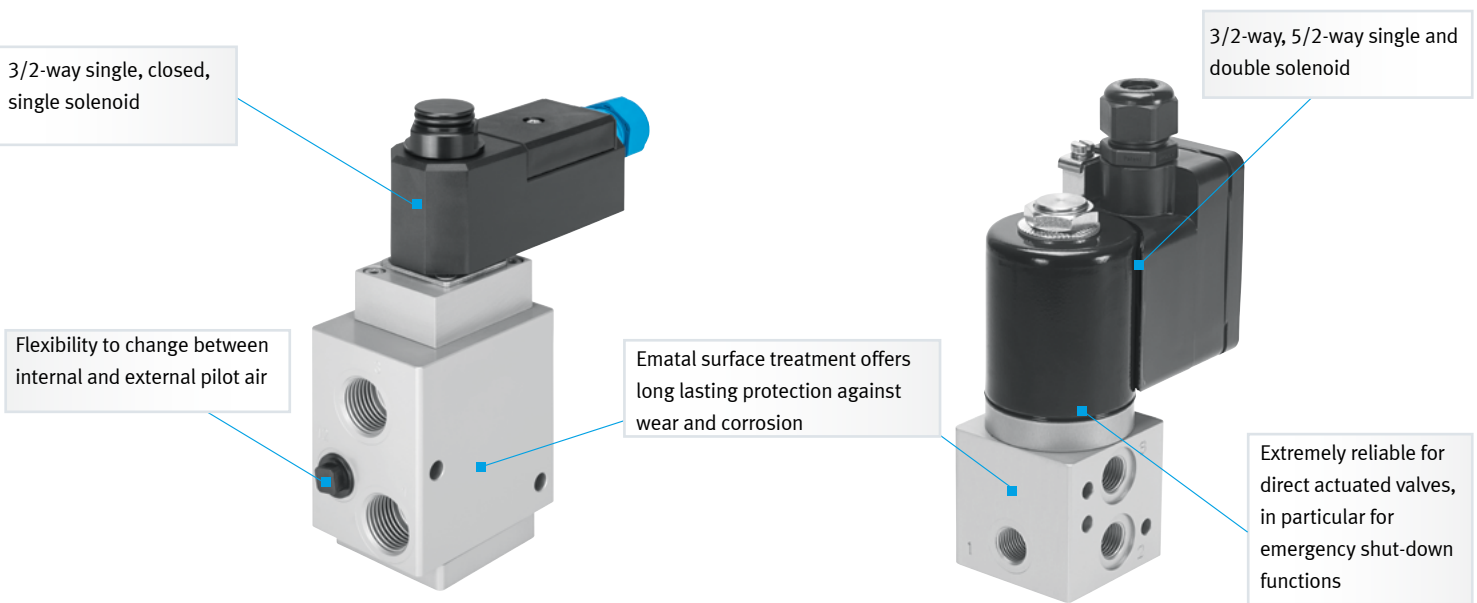
Find out more:
→ **www.festo.com/vofc**

Find out more:
→ **www.festo.com/vofd**

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.

Reliable and safe position control

Naturally energy-efficient - when it is at a standstill, the compressed air consumption of the valve actuator is zero

Feedback signals as standard

Pre-definable safety positions for emergency stop

Back-lit LCD for easy viewing of valve setpoint and position even in low-light conditions

Push-buttons for programming are located inside the housing for security

Labeled connection ports for easy installation and commissioning

NAMUR interface (VDI/VDE 3845)

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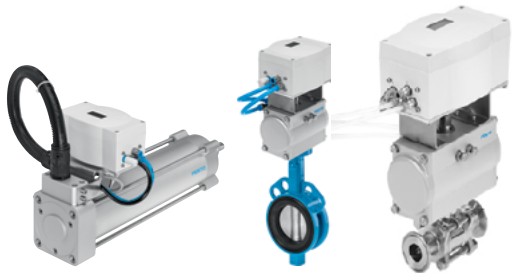
Designed for controlling process valves such as a butterfly valve across a wide range of industry sectors

Valve positioning solutions for flow control

High flow version for large actuators

Find out more:
→ **www.festo.com/cmsx**

Positioner - CMSH

Featuring 2-wire technology, HART communication, condition monitoring functions and a modular system with many variants, the CMSH offers excellent flexibility for a great number of applications.

Reliable and safe position control

Rotatable display is always upright regardless of valve mounting

Visual indicator for easy viewing or position

Integrated pressure switches for advanced diagnostics and self-monitoring

Modular design allows endcaps to be easily swapped to change functionality and connections

Setup wizard allows for quick and easy commissioning

NAMUR interface (VDI/VDE 3845)

Push-buttons for programming are located inside the housing for security

Positioner for linear and quarter turn actuators CMSH

- Commissioning, operation, servicing and diagnostics on the local display via the user-friendly software menu or via remote access via EDD-based (Electronic Device Description) or FDT-based (Field Device Tool) transmission
- 2-conductor technology
- Perfect interaction with the VTOP pneumatic extension modules
- Sustainable operation due to efficient control

Complete solutions from a single supplier
When combined with linear or quarter-turn actuators, the CMSH forms part of a complete automated solution.

Find out more:
→ www.festo.com/cmsh

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.

Position sensing possible with proximity sensors

Sturdy plug and socket design to protect the pneumatic and electrical connections

Robust and corrosion-resistant construction with high IP (IP65, IP67, IP69K) for harsh conditions

Swivel motion possible for extended areas of application

Sturdy collar nuts allow easy mounting to process valves

Fully integrated displacement encoder and positioner

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 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

Linear Cylinder - DFPC

The linear actuator can be configured from stock or individually configured. The new, double-acting linear actuator DFPC can be both. It has been specially designed for actuating process valves such as gate valves or knife-gate valves, pinch valves or valve bodies without housing. Perfect, for example, for the requirements in water and wastewater treatment, the mining industry, and power stations.

Optimized for linear process valves

Double Acting only
Fail last positioning

No rod bearing
Intended for linear process valves

Readily Available
Can be ordered with set strokes or x-strokes

Tie-rod design
Sturdy and ideal for harsh environments
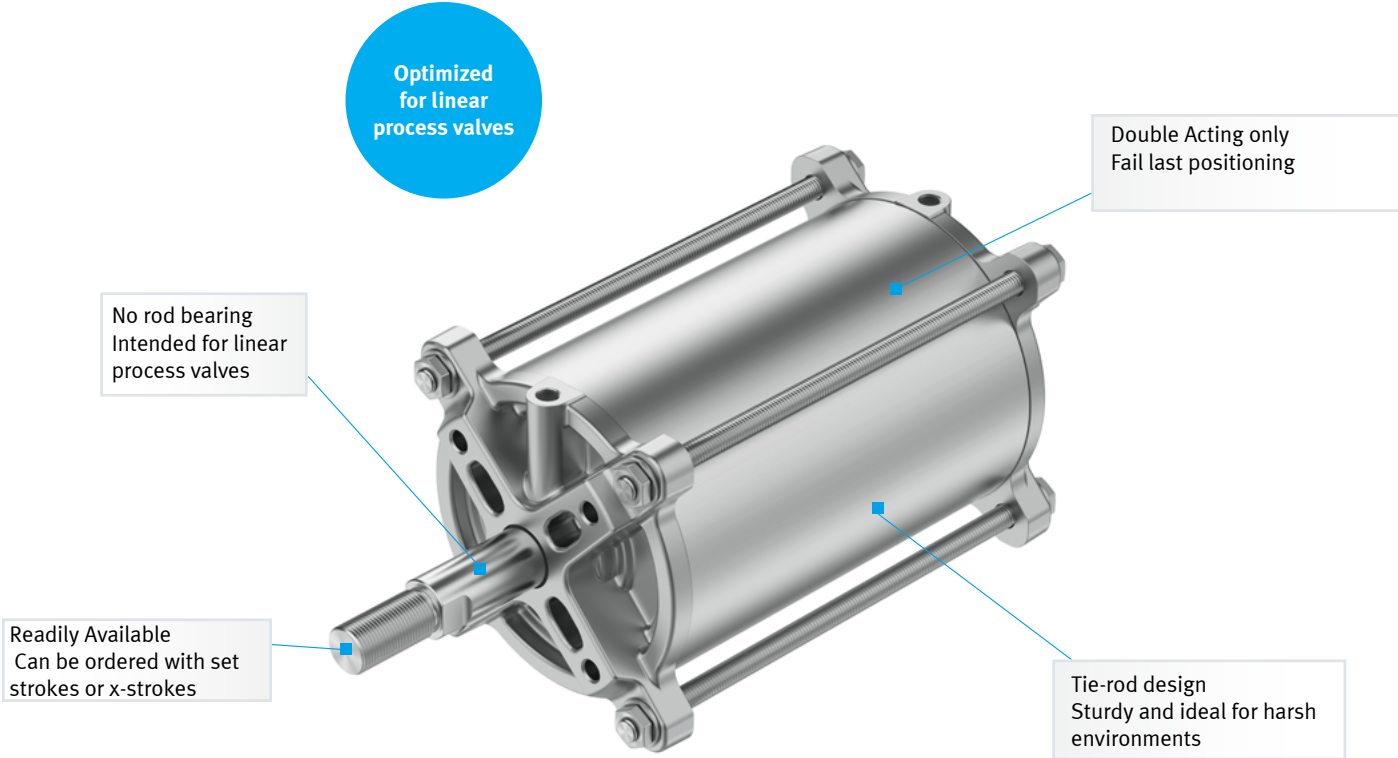
Linear positioning cylinders DFPC
- Double-acting
- ISO 15552 sturdy tie rod design
- Suitable for applications requiring closed-loop control

Alternatives
- Use of a control plate will allow for direct mounting a NAMUR valve to the DFPC

Actuated process valves with linear actuator
The DFPC linear actuator is highly suitable for open/close operation 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.
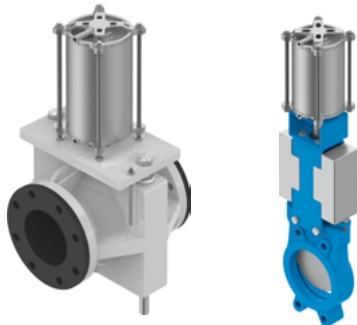
Find out more:
→ **www.festo.com/dfpc**

Quarter-Turn Actuator - DFPD-C

The design features of the DFPD-C make it perfectly suitable for use in the harsh conditions often found in the chemical industry. Having the manifold block on top of the actuator provides access to the extended NAMUR port pattern and saves you the trouble of time-consuming and expensive tubing.

VDI/VDE 3847
Positioner direct mount

Blow-out proof screws
Safety

Spring sets free of non-ferrous metals
Additional safety

Shaft centering ring
Minimizes offset

Find out more:
→ **www.festo.com/dfpdc**
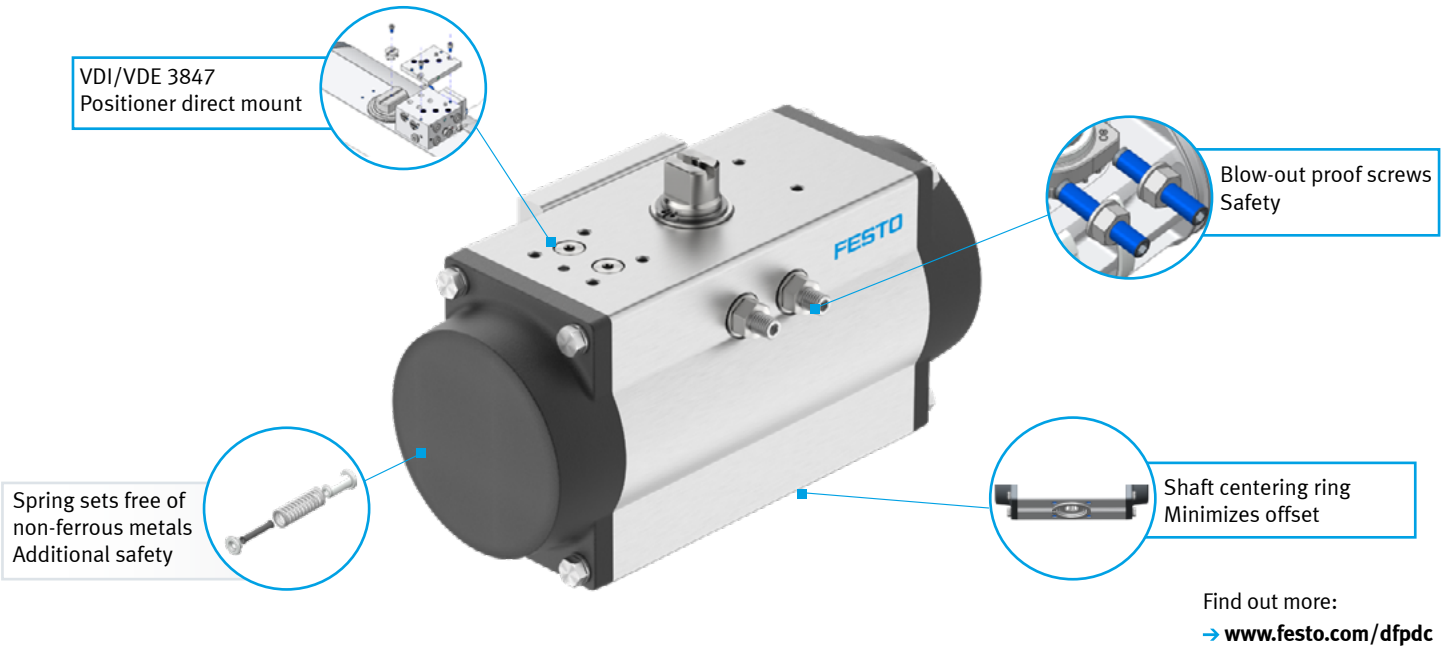
VTOP

The valve terminal VTOP can be used to implement additional pneumatic functions in combination with a positioner. Together with the DFPD-C, these products are perfect for the chemical market.

Typical setup that is both costly and time-consuming as it requires hard-piping between components

No Hardpiping
Clean look

Flexible Functionality
Unique for each applications conditions

Time and Cost Saving
Order assembled

Easy Installation
Simple setup
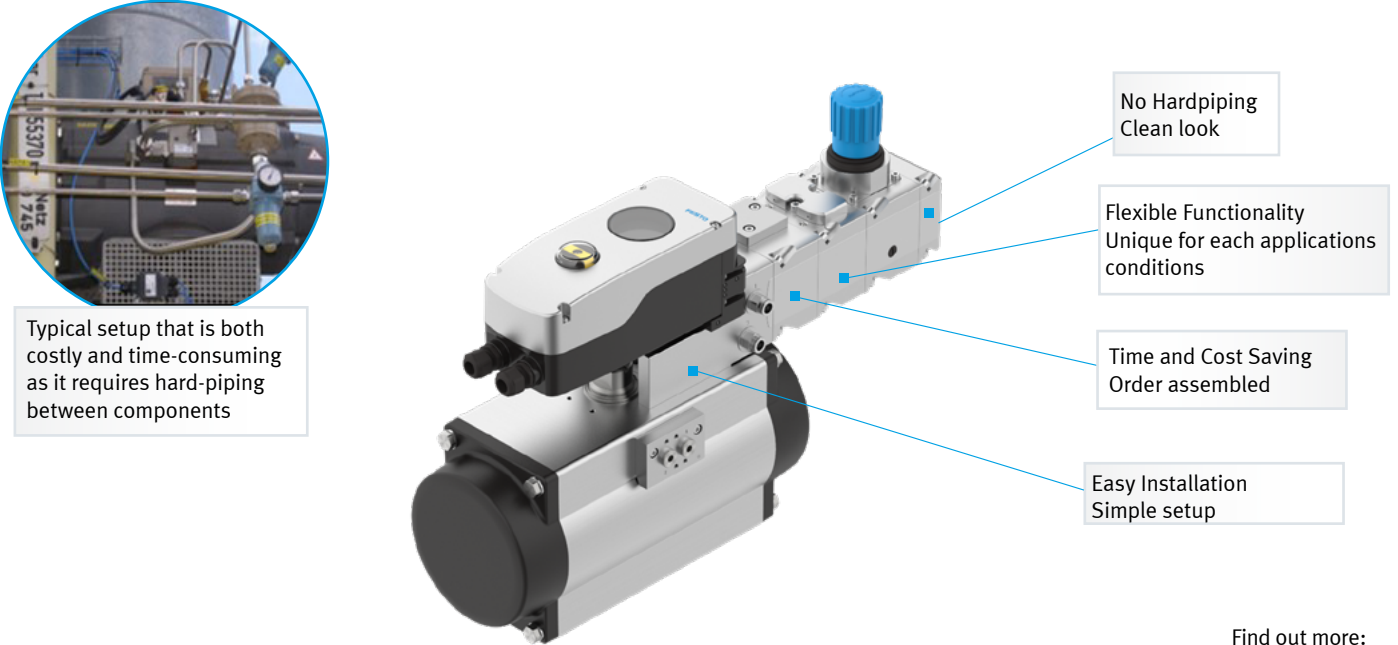
Find out more:
→ **www.festo.com/vtop**

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.

Modular design simplifies maintenance

The optical position indicator clearly shows the valve position

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

Easy-to-clean stainless-steel process valve

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

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

Weeping port allows seal failure detection

High flow rate thanks to optimized bore passages in the valve

Alternate Process Connections

Tri-Clamp   Weld end

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 180º C (optional -30 to 230º 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 productionh

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.

This compact design is the first normally closed pinch valve with integrated actuator in the market

Modular design offers flexibility in both selection and operation

Position detection via integrated magnet ring with Festo sensors

Secure shut off for media pressures of up to 6 bar

Food safe in accordance with regulation (EC) no. 1935/2004 for pinch valves VZQA with silicone and EPDM diaphragms

Full bore, no dead space and is easy to maintain

Quick and easy replacement of sealing cartridge at any time without the need for special tools

Multiple process connection options including threaded and tri-clamp

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

Variants
- Normally open or Normally closed
- Media pressures vary depending on size
- 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
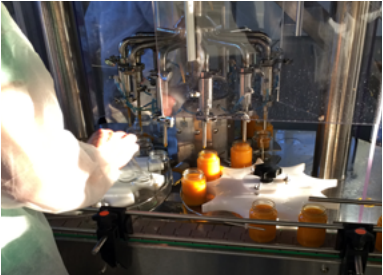
Dispensing
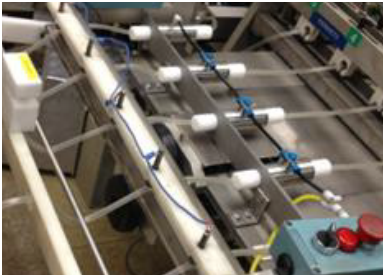
...even as a gripper!

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	Direct acting VZWD	Diaphragm valve VZWM
Ideal for applications in closed media circuits	**High pressures with low flow rates**	**Normally open**
• 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	• Operates without differential pressure at up to 90 bar, even in closed media circuits • Valve switches at any pressure from 0 bar • Normally closed function • 3/2-way version available for piloting process valves	• Diaphragm valve • Brass or stainless steel casting design • Wide range of coils with a variety of different voltages available • Cost effective for media piloted applications • Variety of different voltages available
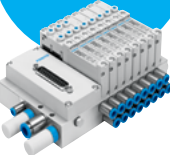
Valve Terminals

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.
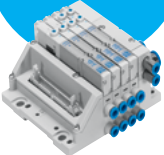
Valve terminal VTUG	Valve terminal MPA	Valve terminal CPX	Valve terminal CPV10-Ex
Compact and cost-effective	**High performing and expandable series**	**Modular with remote I/O for NAMUR signals**	**Ideal for explosive areas**
• Multi-pin, fieldbus, IO-Link • Up to 24 valve positions • Degree of protection IP40, IP65, IP67 • Multiple different pressure zones on one valve terminal • Control cabinet optimized version available • T-Profile (NEMA 4X)	• High perfromance 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	• 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	• 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	Air preparation D	Filter regulator PCRP	Filter regulator LFR-EX
Modular product series	**Air prep for standard applications**	**For harsh environments**	**Explosion protection included**
• 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"	• 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	• 316 stainless steel housing and internal metal parts • Sizes 1/4" and 1/2" • Available in low temparature down to -60° C • ATEX Zone 1	• Coated zinc and aluminum body • Sizes 1/4" and 1/2" • Available in low temparature 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	Pressure transmitter SPAW	Flow sensor SFAW	Cylinder sensor CRSMT
Ideal for pressure and vacuum sensing	**Perfect for measuring media pressures**	**The easy way to monitor fluids**	**Cylinder sensors for outdoor use**
• 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 ± 1% FS • Repeatability ± 0.1% FS	• 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	• 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	• 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

Integration of pneumatic and electrical system completely designed and assembled

Stainless steel cabinets also available for use in corrosive environments

Technology mix from one single source
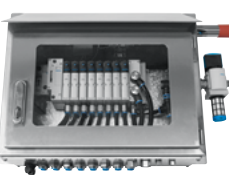
Provides protection against harsh elements

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

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

Options

For hazardous areas with intrinsically safe valve terminals CPV10-Ex
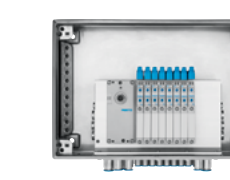
Protection from dust or liquids as per protection class IP66, especially in the mining industry

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
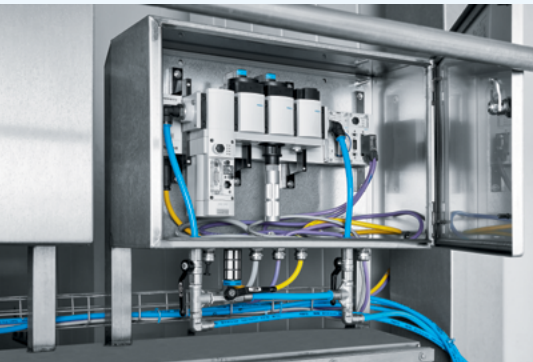
Services and Support

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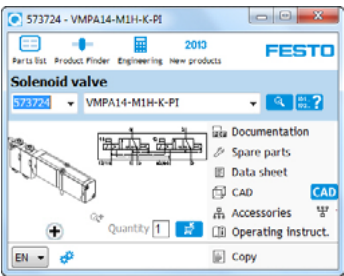
The Quick Search Plus Application is a must have for your desktop. It helps you find the right product and gives you quick access to the online catalogue.

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/engineeringtools

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/login
→ www.festo.com/register

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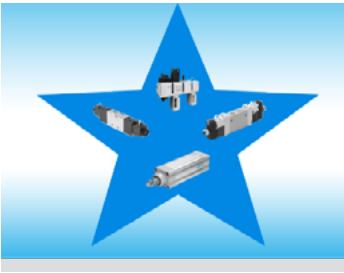
The "Stars of Automation" offers thousands of products including valves, cylinders, service units, sensors and accessories. In our Online catalog, the "Stars of Automation" are noted with a solid blue star to quickly see what products are available to be shipped within 24 hours.

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

Process Automation Toolkit
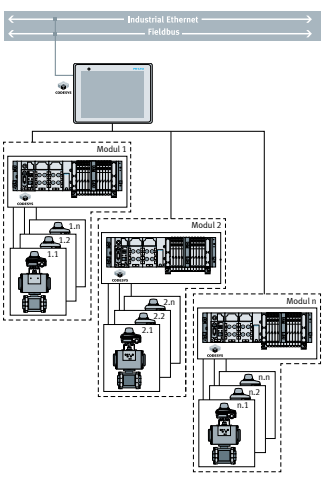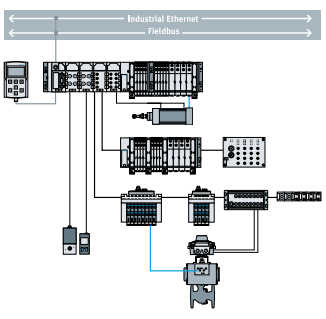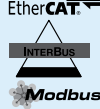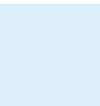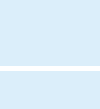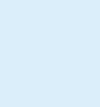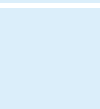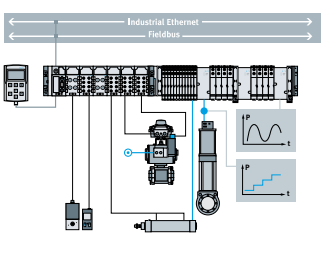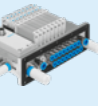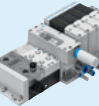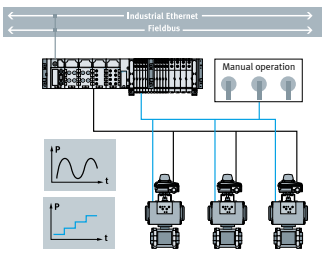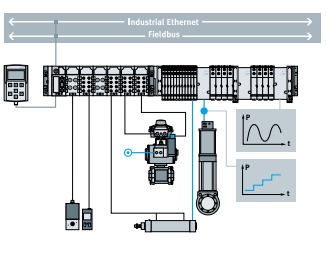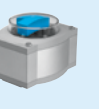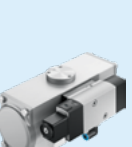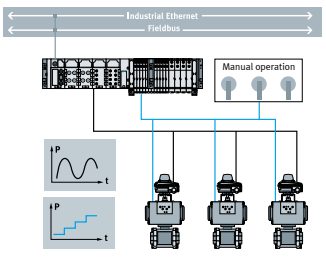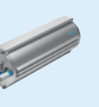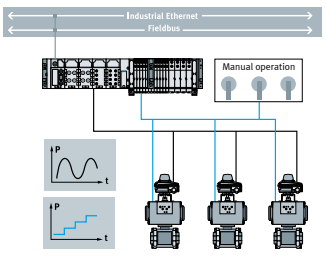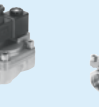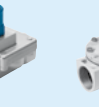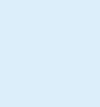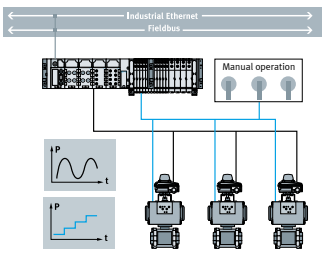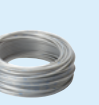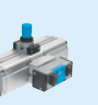
Modular programming of your applications process
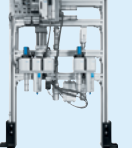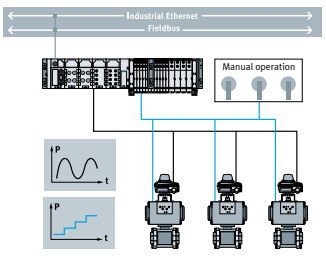The PA-Toolkit and its library for CODESYS (IEC 61131-3) allows you to program your applications process intuitively. Each module has its own controller agreement with the MTP standard (Module Type Package).

It's time to enjoy scheduling tools that save you valuable time
- Pre-tested function blocks and visualisation elements – you or your application programmers can concentrate exclusively on the process.
- It allows the simple and intuitive development of control logics and user interfaces
- Worldwide support from Festo support teams
- Export of the MTP description file available
- You are involved in the entire development process

Process Automation Solutions - Complete Portfolio

Field automation components				Application solutions

Operator level

Front-end display CDPX 4" (touchscreen)
Front-end display CDPX 7" (touchscreen)
Front-end display CDPX 10" (touchscreen)
Front-end display CDPX 13" (touchscreen)
CDPX-B
CDPX-X-E2

FESTO — Festo Designer Studio engineering design software for visualisation

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

Customized control cabinet solution, also for ex zones

Modular automation

Control of dart valve for level regulation in mineral processing

Control level

Controllers

CPX-E-CEC
Compact controller CECC
CDPX-X-E1

CODESYS — PLC development environment

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

Pneumatic operator panel

Bottle filling applications

Remote I/O

CTEL
CTEU with CAPC splitter
Modular electrical terminal CPX
Modular electrical terminal CPX-P
CPX-AP-I
CPX-AP-A
CPX-E

Modular valve terminal CPX/MPA

PROFIBUS PROFINET
EtherNet/IP
DeviceNet
CC-Link
CANopen
EtherCAT
INTERBUS
Modbus

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

Valve control unit for controlling disc and double-seated valves

Hybrid installation (centralized/decentralized)

Valve terminals

Valve terminal MPA/MPA-F
Valve terminal MPA-C (Clean Design)
MPA-L
Valve terminal VTUG
Valve terminal VTUG optimized for control cabinet installation
Valve terminal VTSA/VTSA-F
VTUG-EX
Motion Terminal VTEM

Modular valve terminal CPX-P/MPA
Modular valve terminal CPX/VTSA

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

Linear actuator DFPI with positioner CMSX

Abrasion resistant options for powders and solids

Field level

Solenoid valves

Pilot valve VSNC (NAMUR)
Pilot valve VSNC-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

Quarter turn actuator DFPD, butterfly valve VZAV, positioner CMSX

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

Centralized installation

Shut-off control for glycol used in food production

Sensors and positioners

Sensor box SRBC
Sensor box SRBE (flameproof enclosure)
Sensor box SRBG (inductive double sensor)
Sensor box SRBI
Analogue sensor box SRAP
Positioner for quarter turn and linear actuators CMSX
CMSH
Pressure sensor SPAW for gases/liquids
Pressure transmitter SPTW for gases/liquids
Flow sensor SFAW for fluids

Actuators

Quarter turn actuator DFPD
DFPD-C
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 DFPI
Closed-loop controlled linear actuator to ISO 15552 DFPI-NB3

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

Units for high and low temperature applications

Automation with pneumatic operator panel

High corrosion resistance in extremely dusty and contaminated environments

Process and media valves

VZXA/VZXF
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 VZBA/VZBM
Ball valve VZBC/VZBD
Butterfly valve VZAF/VZAV
VTOP
Knife gate valve VZKA

Linear actuator DLP with knife gate valve VZKA

Hall and robot installation plates

Manual operation

Accessories

Service units
Air dryers
Couplings
Push-in fittings
Polyurethane Tubing PUN-H
Polytetrafluoroethylene tubing PTFEN
Pressure booster DPA
Compressed air reservoirs

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