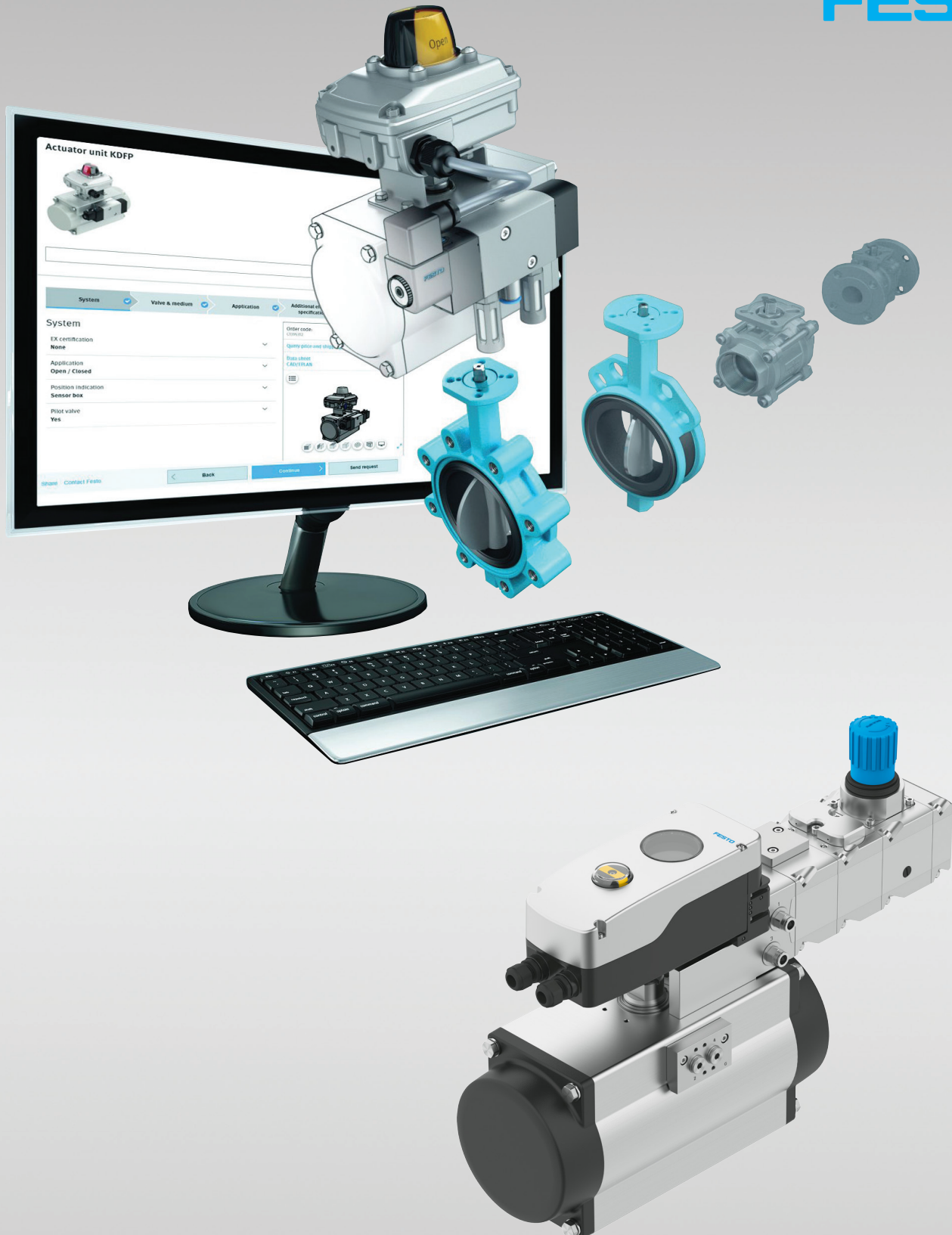
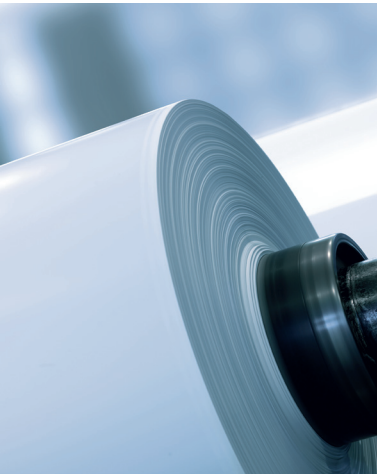


Process Automation – Products & Services Offer

FESTO



Industries....



Pulp and paper



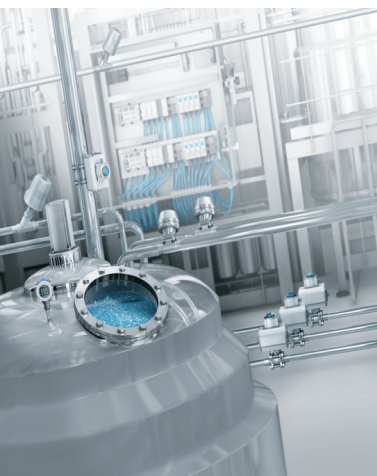
Food processing and packaging



Water technology



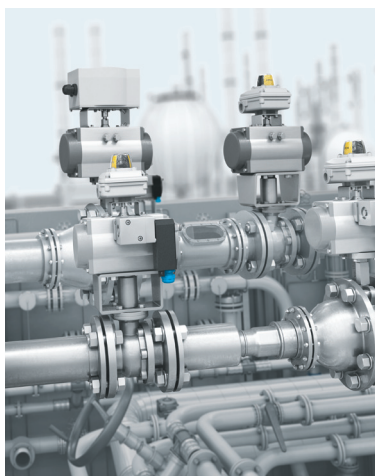
Electronics



Biotech/Pharma and cosmetics



Mining and mineral processing



Chemicals



Automotive

You require more efficient production facilities.
You want a partner that understands your industry.
We are your solution for automation.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

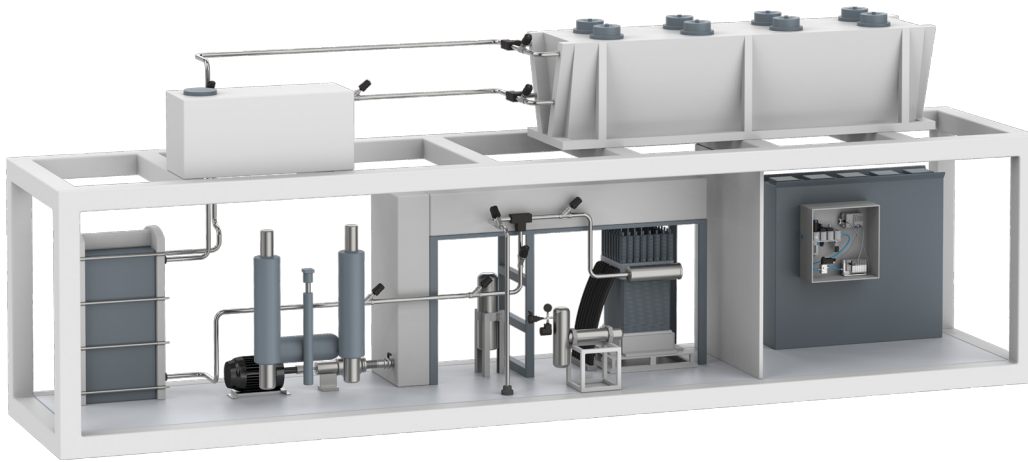
Benefit from our experience across a variety of industry sectors

Our solutions for the process industry support your manufacturing processes in a wide variety of applications, such as the production of paint in the chemical industry or in industrial and municipal water treatment. Our automation solutions offer wide-ranging benefits, from the production of active ingredients for medicine and bottling of beverages through to copper and ore extraction.

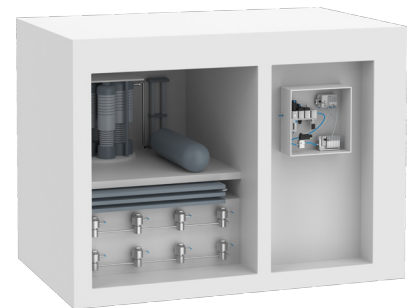


Green hydrogen for a sustainable future

A successful transition from fossil fuels to renewable energies is essential to achieve the goal of “net zero”. In energy-intensive production facilities such as those in the chemical, steel and cement industries, sustainably produced hydrogen is playing an increasingly large role. We support you with reliable automation solutions along the entire value chain.



Electrolyser (alkaline, PEM...)



Compressor station

Production, infrastructure and use of hydrogen: our portfolio for safe operation and standardised processes

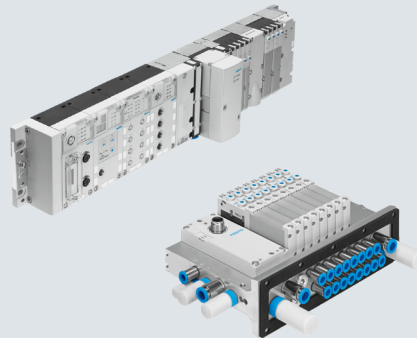
Remote I/Os

IP20/65 – also for Ex-zones and possible with intrinsically safe inputs



Valve terminals

To mount on the skid or in a control cabinet – also for Ex zones



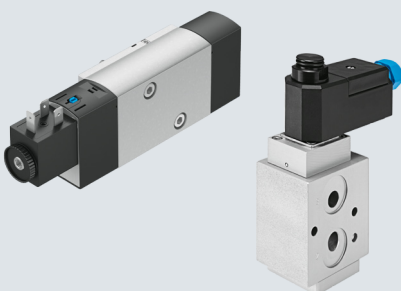
Air preparation units

For a wide range of applications – preassembled



Solenoid valves

Versatile product range, suitable for EX zones and SIL loop



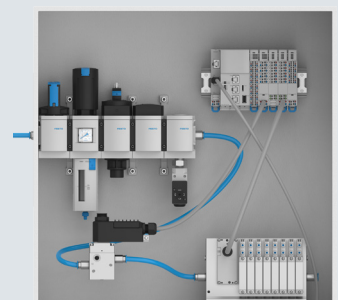
I/P converters

Piloted pressure regulator with integrated sensor for fast commissioning

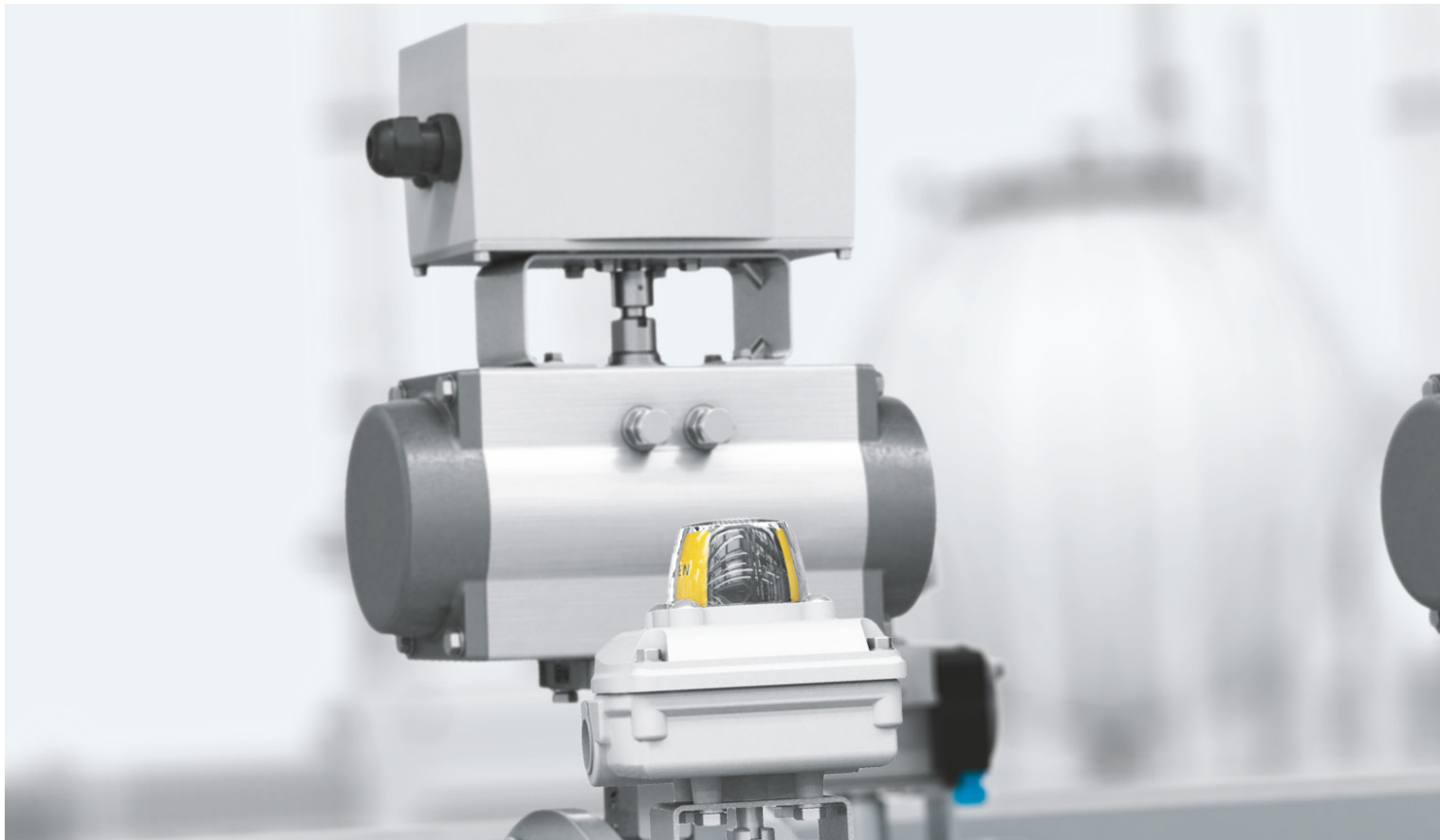


Control cabinets

Also for Ex zones, ready to use solutions from a single source



Process Automation....



You want to make your applications more productive.
You are looking for efficient solutions.
We are entering the digital future with you.

→ WE ARE THE ENGINEERS OF PRODUCTIVITY.

Festo – Process automation from a single source

Festo is your reliable, powerful partner for comprehensive support in process automation – with worldwide, future-proof solutions that are not limited to a specific technology. From individual components and ready-to-install solutions to integrated automation concepts, whether pneumatic, electric or in combination. Our experts will advise and support you in every phase of the project, from engineering and procurement to installation and on-site servicing.

Product range for process automation

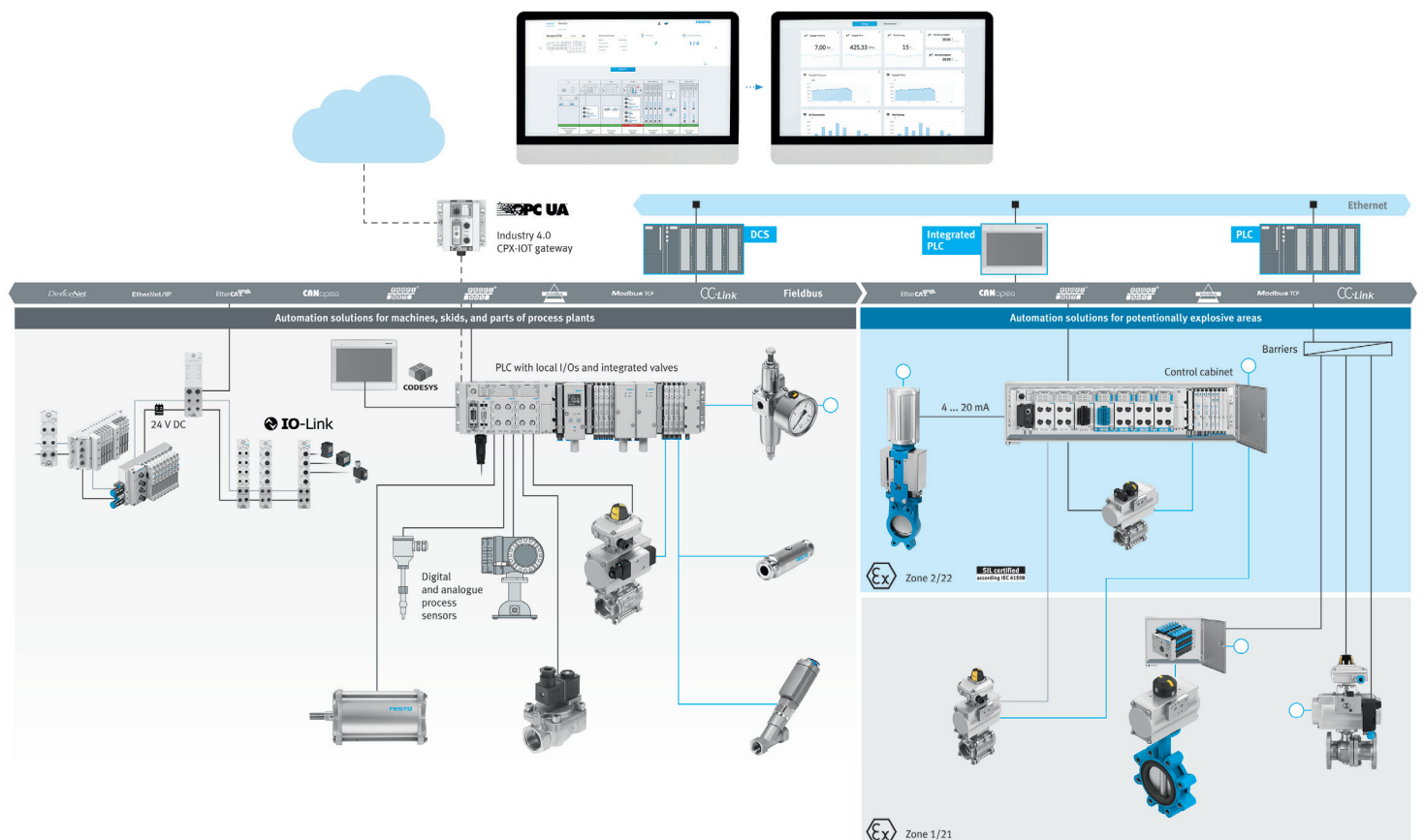
Customers worldwide receive all their components from a single source: control technology and remote I/Os, valve terminals, pilot valves, sensors and positioners, actuators, process and media valves, compressed air preparation and pneumatic connection technology.

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...

Product Pyramid of Process Automation



Actuated ball (KVZB) and butterfly (KVZA) valve assemblies and top works

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

Quarter turn actuator DFPD

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

Options

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

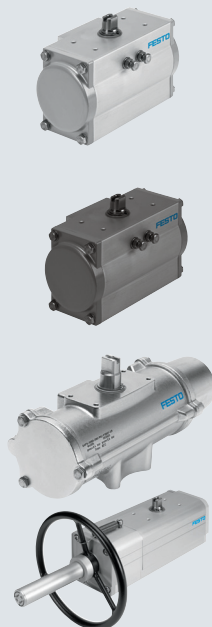
Alternatives

Quarter turn actuator DAPS-CR

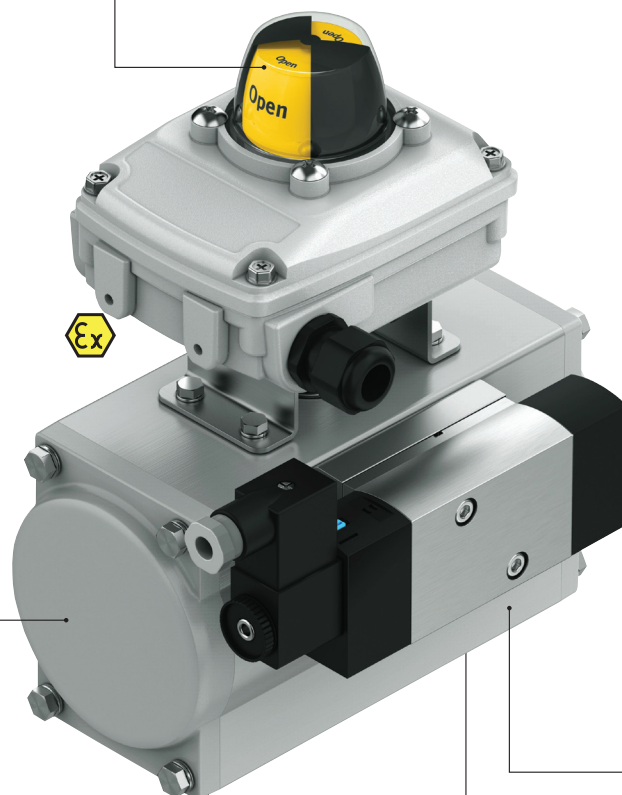
- All stainless steel design for corrosive environments

Quarter turn actuator DAPS-MW

- Direct hand wheel actuation for manual override



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



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

VZBA/VZBE



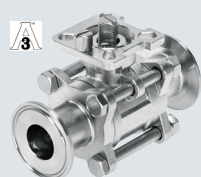
- 2-way and 3-way
- Stainless steel
- L or T port

VZBF



- Fire safe
- Stainless steel
- ANSI flange

VZBD



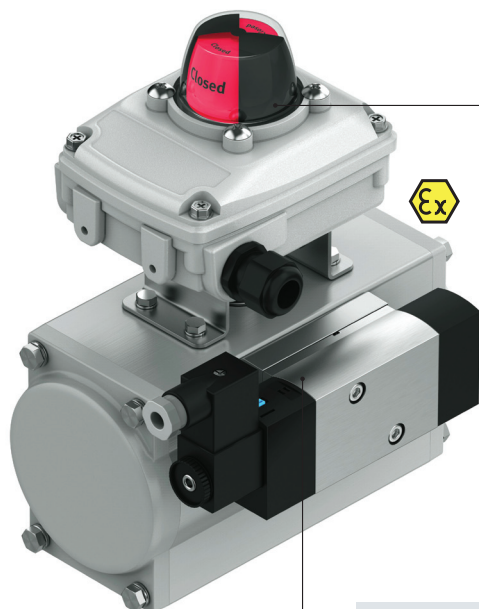
- 3A Sanitary
- Cavity filled
- Weld or tri-clamp

Manual versions also available



Direct mounting to ISO 5211





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
- Ex-ia approved for hazardous area installations



Alternatives

Sensor box SRBE

- Mechanical, inductive or magnetic switch variants
- Ex-d approved for hazardous area installations



Sensor box SRBG

- Puck design
- Inductive dual sensor
- M12 or terminal port connection
- ASI interface compatible
- Ex-ia approved for hazardous area installations



Limit switch box SRBI

- Compact housing with M12 or terminal port connection
- For quarter turn actuators for process automation with position indicators

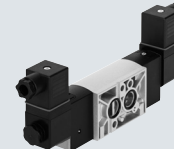
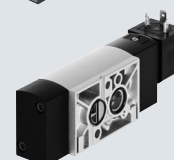
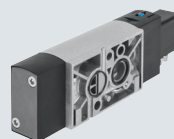


Standard NAMUR valve VSNC-...F8

- 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 and 5/3



Options

NAMUR valve VSNC-...FN/VSNC-P2/VSNC-F19

- Ex solenoid options for hazardous areas
- For outdoor applications

Pre-assembled
with silencers
and fittings
to reduce
installation
time

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



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 makes it quick 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

Save your
valuable
time

Fast and
simple project
management

The products are perfectly matched
to your specific applications

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

Efficient
procurement
process

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

System	Valve & medium	Application	Additional electrical specifications	Overview														
Your selection: valve & medium <table border="1"> <tr> <td>Flange style</td> <td>Wafer</td> </tr> <tr> <td>Connection standard</td> <td>DIN EN 1092-1</td> </tr> <tr> <td>Nominal pressure of the connection standard</td> <td>PN10</td> </tr> <tr> <td>Medium pressure</td> <td>10 bar</td> </tr> <tr> <td>Valve diameter</td> <td>300 mm</td> </tr> <tr> <td>Disc material</td> <td>Ductile cast iron EN-GJS-400-15, PA coated 250 µ</td> </tr> <tr> <td>Sealing material</td> <td>EPDM</td> </tr> </table>					Flange style	Wafer	Connection standard	DIN EN 1092-1	Nominal pressure of the connection standard	PN10	Medium pressure	10 bar	Valve diameter	300 mm	Disc material	Ductile cast iron EN-GJS-400-15, PA coated 250 µ	Sealing material	EPDM
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Sealing material	EPDM																	
Your selection: application																		
Your selection: additional electrical specifications																		
1 Add to basket Order code: C997002 Login for price and shipping information Technical data Documentation CAD/EPLAN																		

Order as
assembled
or as
individual
parts

Including
system ID and
CAD download

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



KVZA



KVZB



KDFP

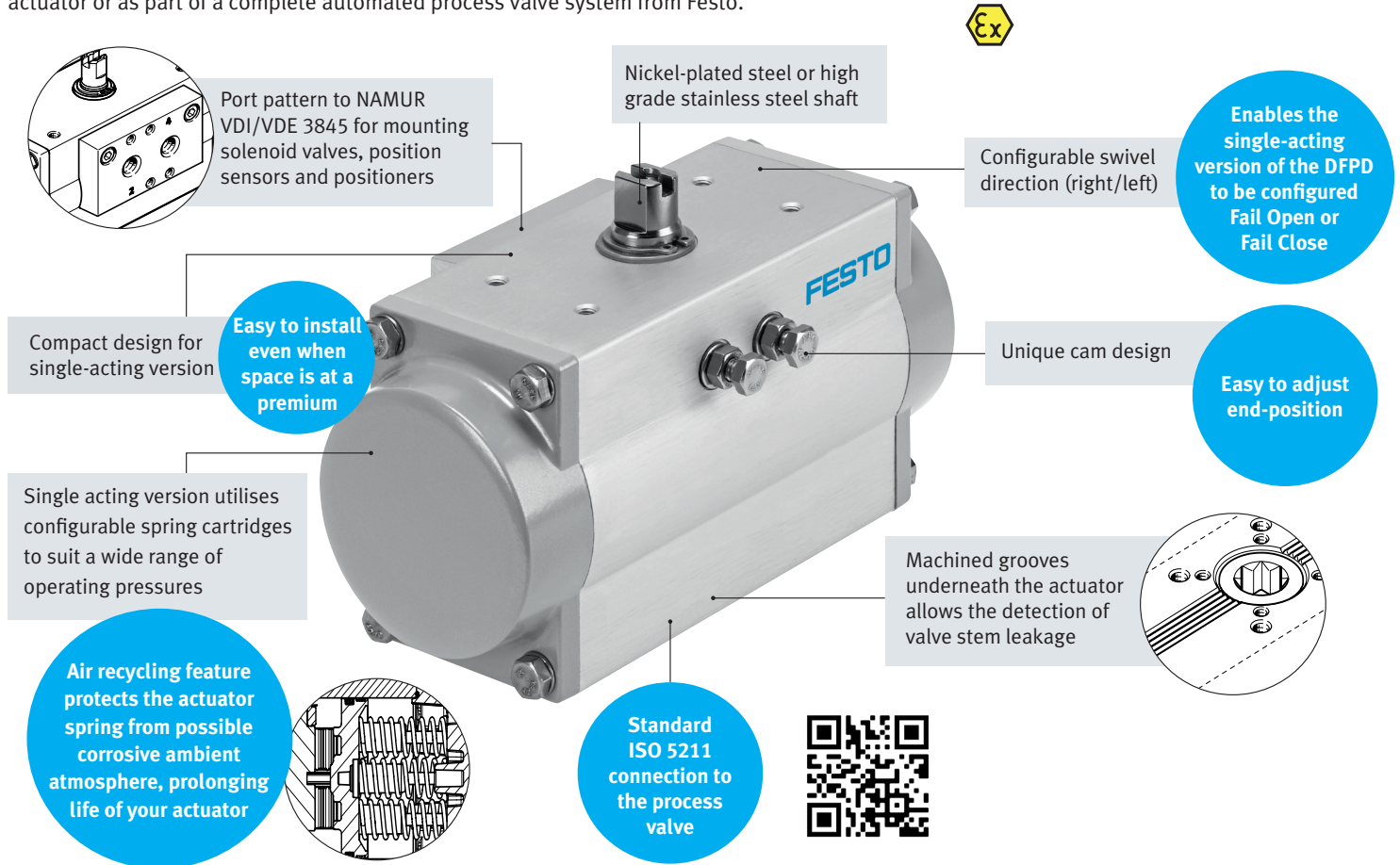
www.festo.com/KVZA

www.festo.com/KVZB

www.festo.com/KDFP

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.



- Low and high temperature versions from -50°C to $+150^{\circ}\text{C}$ for extreme operating conditions
- 120° , 135° , 180° swivel angle available for double acting version
- Sizes available: 10, 20, 40, 80, 120, 160, 240, 300, 480, 700, 900, 1200, 2300

DFPD range

DFPD Standard

Anodized aluminium housing
Epoxy coated end caps



For standard applications

- Anodized aluminium housing is resistant against usual industrial environments. Resistant against salty air. End caps are epoxy coated
- Not suitable for strong acids or basic solutions

DFPD Epoxy coated

Epoxy coated aluminium housing and end caps



For applications where elevated corrosion resistance is needed

- Outdoors
- Repeated washing
- Increased resistance against salty environments compared to anodized aluminium
- Limited resistance for acids
- Can withstand mild bases

Optional stainless steel shaft

DFPD-C chemicals

Anodized aluminium housing
Hard-anodized end caps

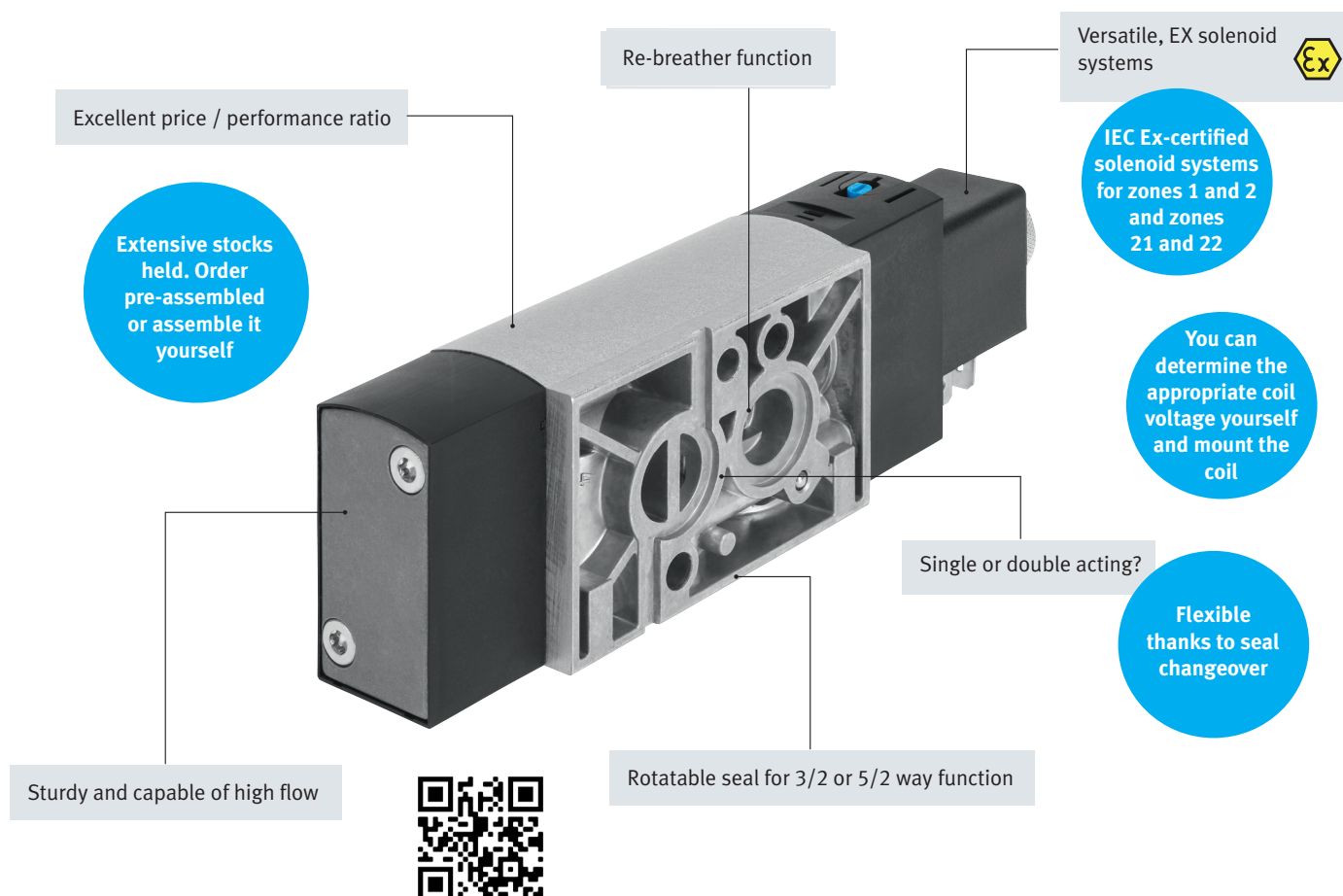


Specially designed for the chemical industry

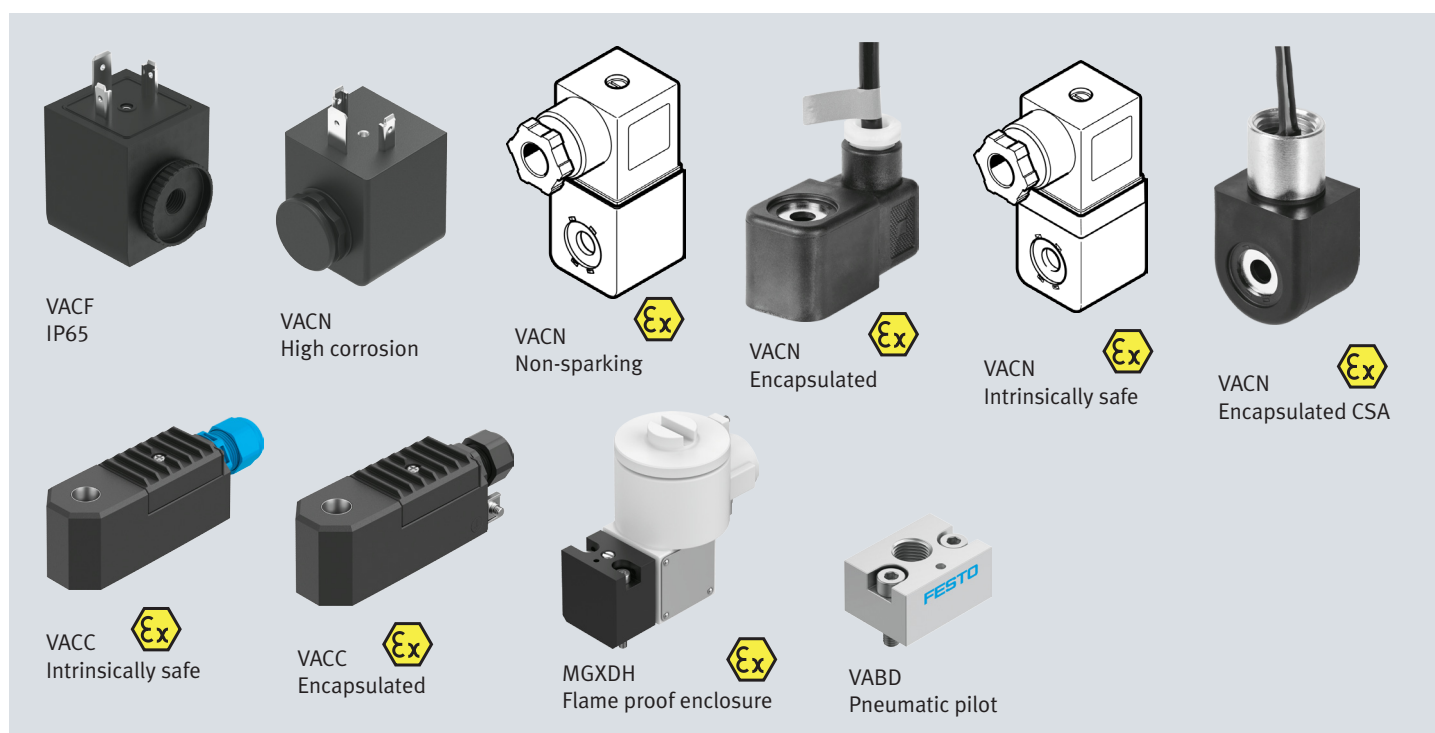
- Hard anodizing protects end caps from scratches
- Non-ferrous metal-free spring cartridges protect from internal spring corrosion
- VDI/VDE 3847-2 interface for easier mounting of positioner

NAMUR pilot valve – VSNC

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.



Possible coils and pilot

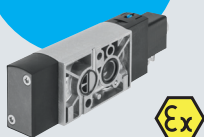


Namur valves

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

Namur pilot valve - VSNC

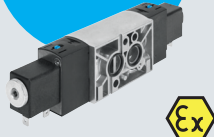
One solution for single and double acting actuators



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

Namur pilot valve - VSNC-Ex

Ex-approved for hazardous areas



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

Pilot valve - VOFD

Extremely sturdy and corrosion resistant



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

Pilot valve - VOFC

Reliable use under tough conditions



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

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.

Sensor box SRBC

Sturdy design for harsh conditions



- Weather-tight housing for outdoor applications
- Mechanical, inductive or magnetic switch variants
- Clearly visible position indicator for detection of current position
- NEMA 4/4X and IP67
- SIL2
- IECEx, ATEX, CSA

Sensor box SRBE

Ideal for explosive atmospheres



- Flameproof enclosure enables installation without safety barriers
- Ex approved for hazardous area installations
- NEMA 4/4X and IP67
- SIL2
- IECEx, ATEX, CCC, KCC, CSA, Inmetro

Sensor box SRBG

Compact design for tight installations



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

Limit switch box SRBI

Compact housing with M12 plug connection



- Direct mounting on quarter turn actuators to VDI/VDE 3845
- For quarter turn actuators for process automation with position indicators
- LED status indicator for switching status and supply voltage

Limit switch DAPZ...AR

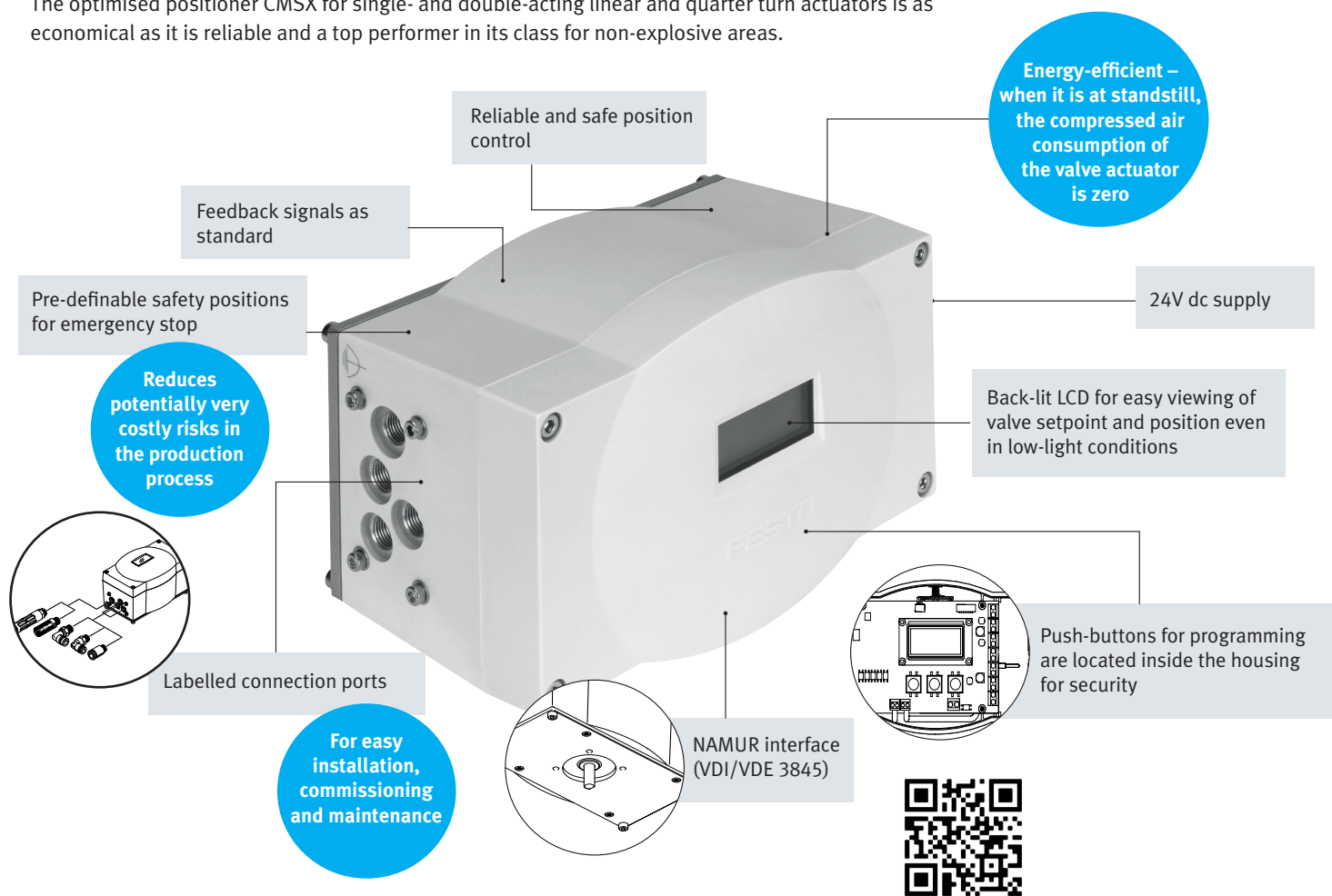
Provides 3-way indication



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

Positioner – CMSX

The 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.



Positioner for linear and quarter turn actuators – CMSX

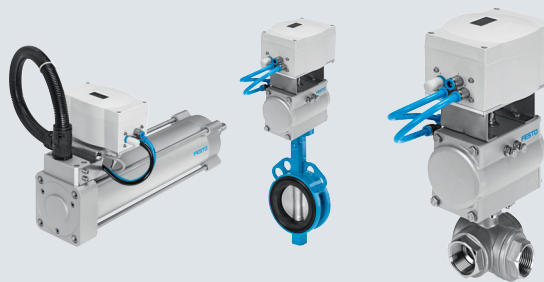
- Reliable position control
- Analogue feedback as standard
- Safety positions for opening, closing and holding in the event of a breakdown
- Set-point value configurable to 0-10V, 0-20mA or 4-20mA

Variants

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

Complete solutions from a single supplier

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



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



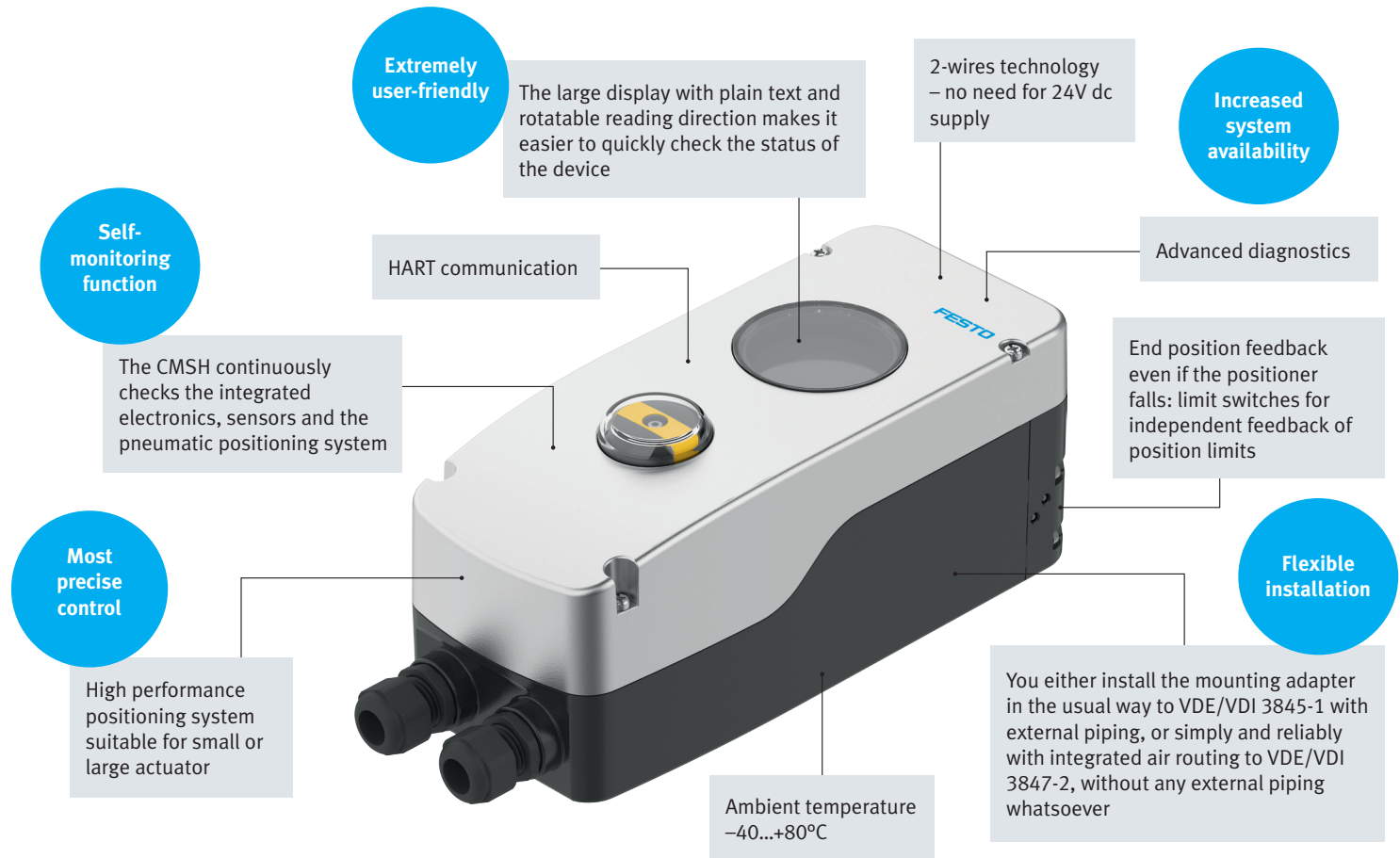
Valve positioning solutions for flow control



High flow version for large actuators

Smart positioner CMSH

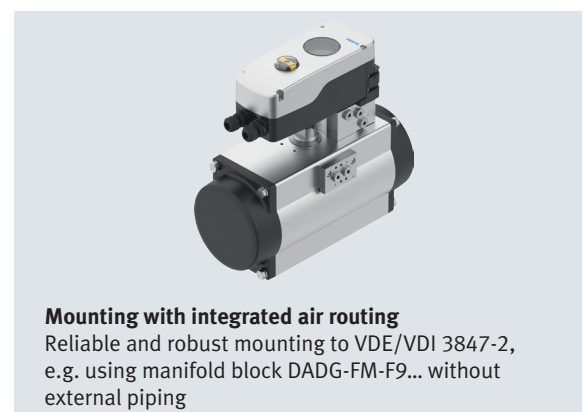
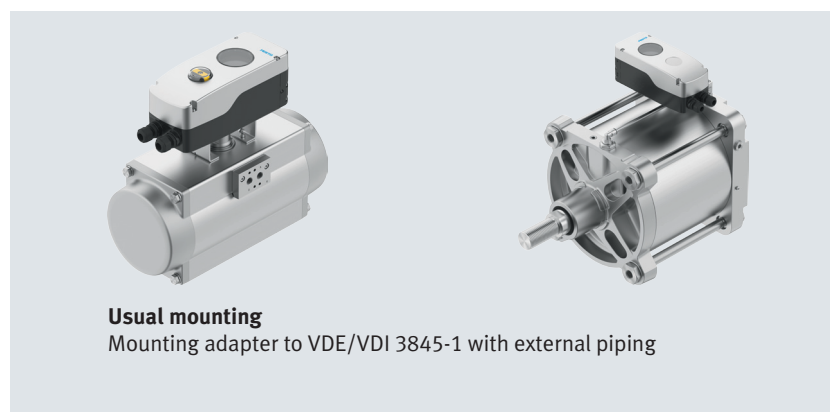
You now only need one device for the fast and precise control of actuators, whether large or small, linear or rotary, single-acting or double-acting. The CMSH supports standardised interfaces and features innovative installation concepts for a wide range of application options.



Your choice: single-acting, double-acting or universal design?

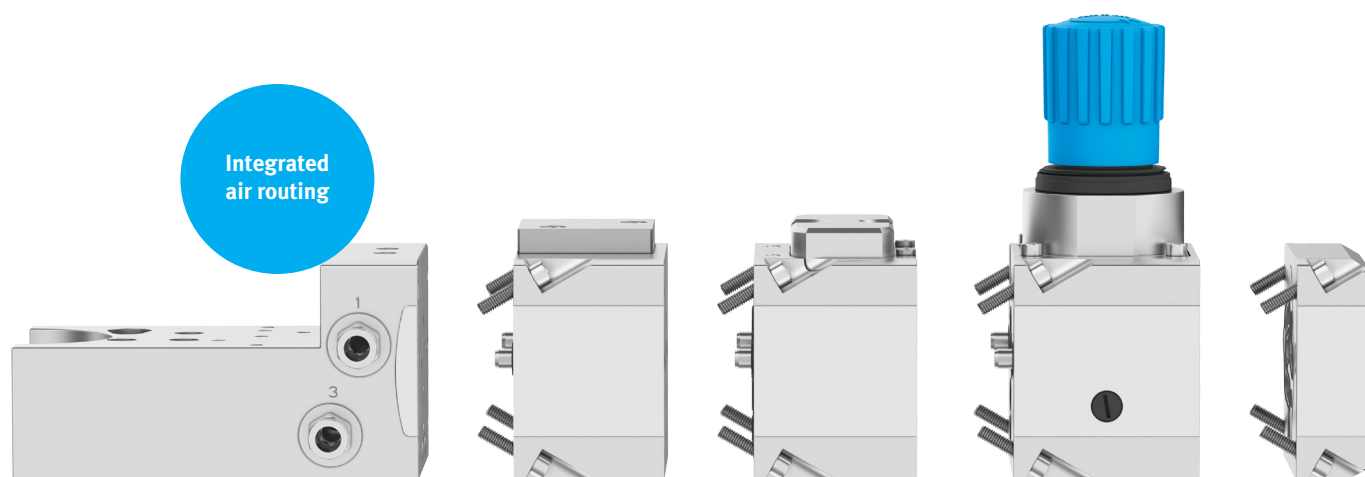


Easy and reliable mounting



Pneumatic extension modules VTOP

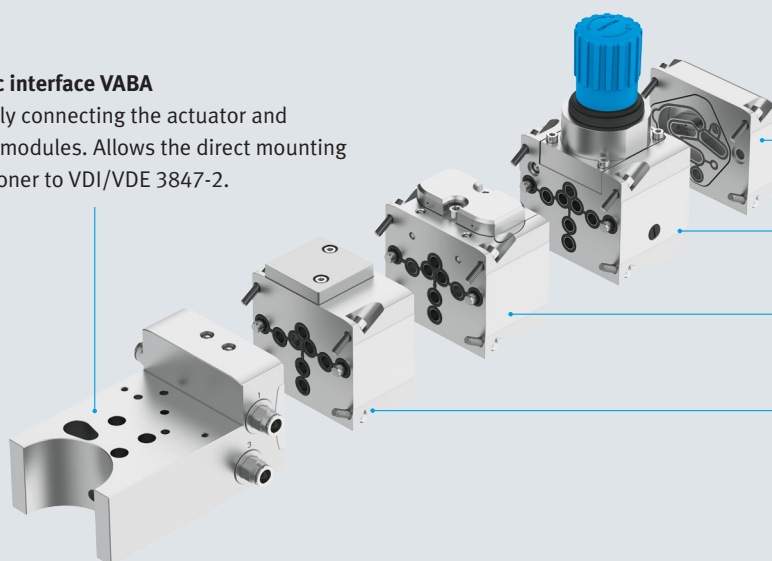
The VTOP is ideal for control applications with positioner and additional instrumentation. The pneumatic extension modules facilitate a complete setup, without tedious searches for components and time-consuming installation, and thus greatly simplify maintenance.



Everything from a single source – compact modular and configurable to your needs

Pneumatic interface VABA

For securely connecting the actuator and extension modules. Allows the direct mounting of a positioner to VDI/VDE 3847-2.



End plate VABE

Filter regulator PCRI

Ensures the correct compressed air quality and enables the pressure to be controlled

Booster VOGM

Increases the flow rate for faster travel speeds

Fail-safe single-acting VABP or double-acting VOGI

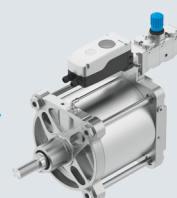
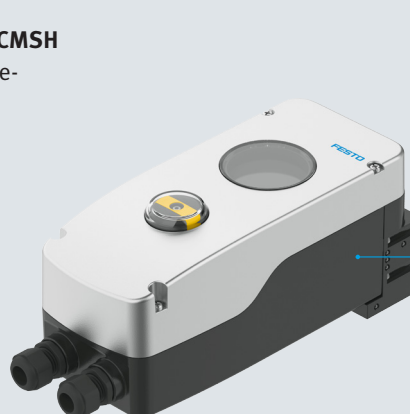
In the event of failure, the actuator travels to the safe position you have predefined

Innovative complete solution: VTOP and positioner CMSH

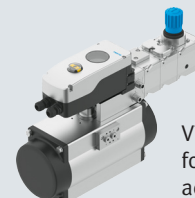
The optimised complete solution for controlling single-acting and double-acting quarter turn actuators and linear actuators.

Smart positioner CMSH with HART communication for increased plant and system availability and process reliability

- 2-wire technology
- Low internal air consumption
- Highly dynamic, fast and precise control of both small and large actuators
- Integrated self-monitoring and diagnostics

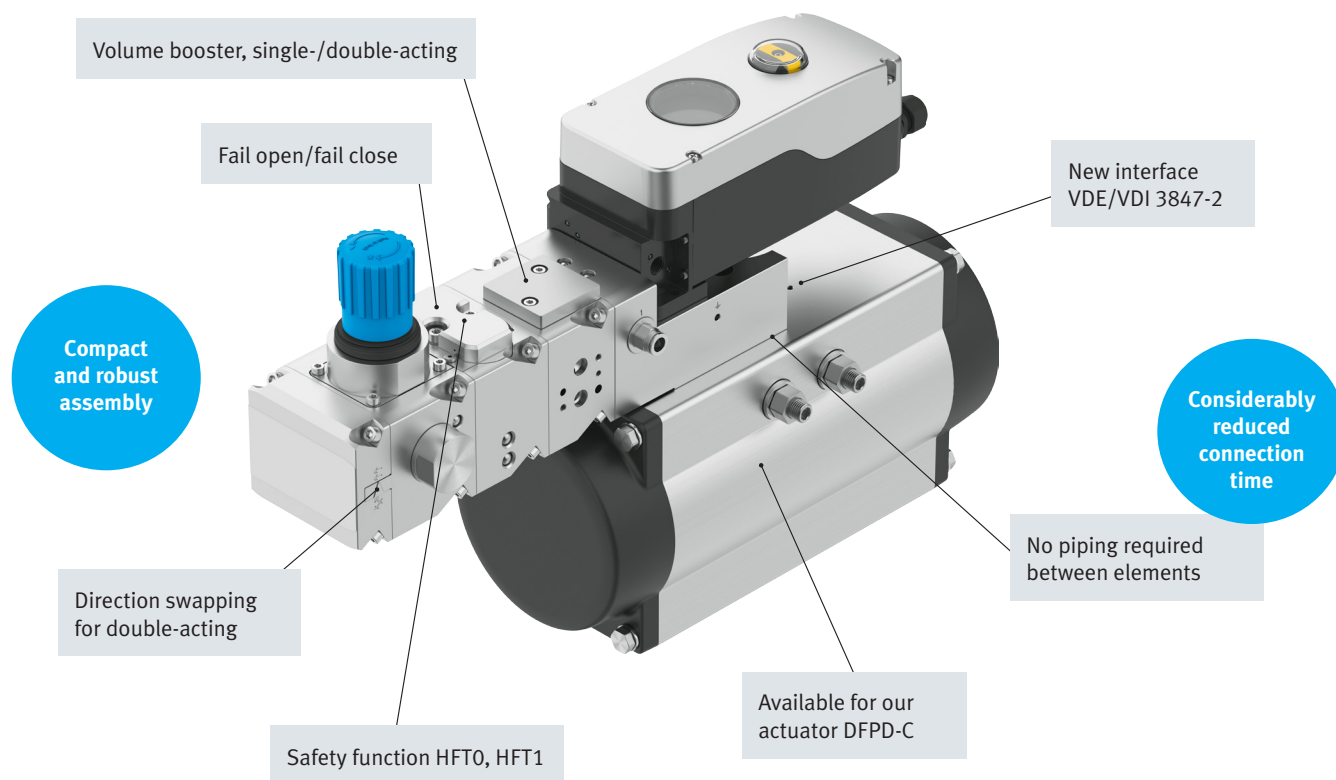


VTOP and CMSH for linear actuators. e.g. DFPI-...-VM12

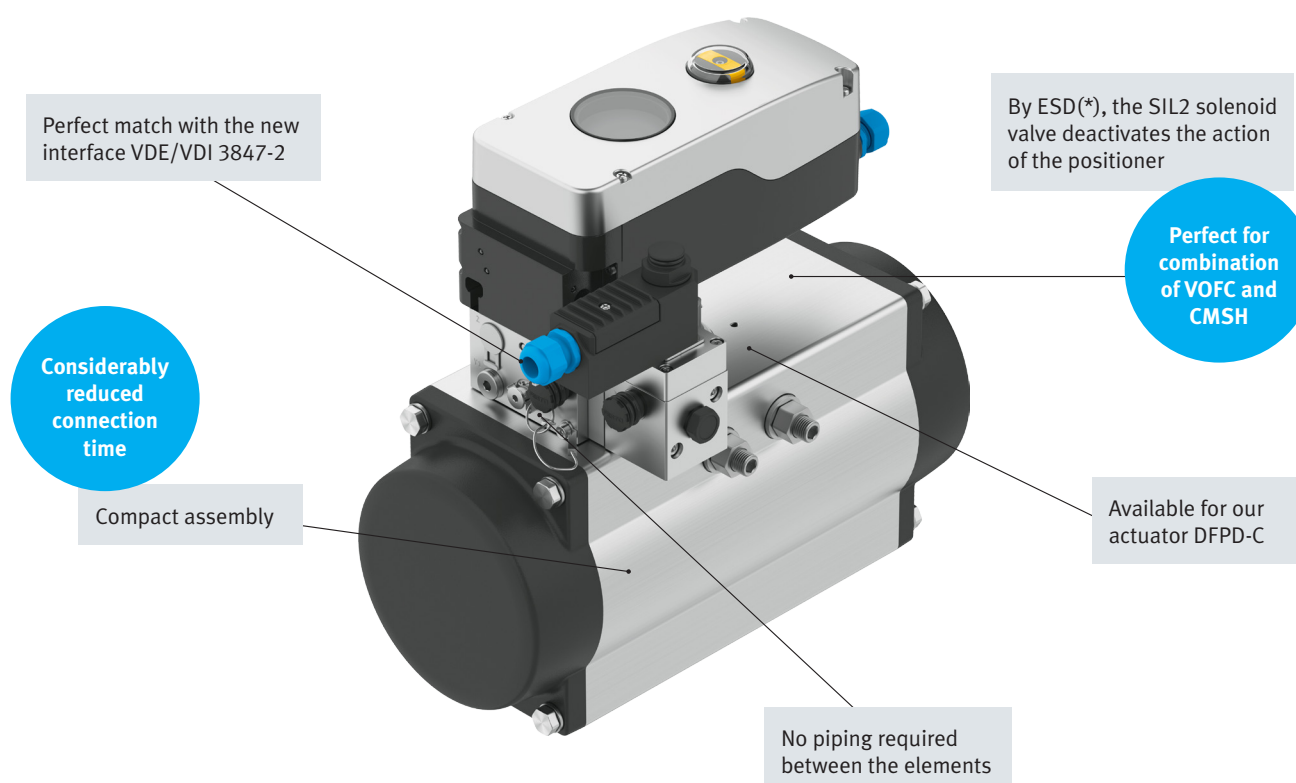


VTOP and CMSH for quarter turn actuators. e.g. DFPD-...-C-VDE2

VTOP – to reduce connection time



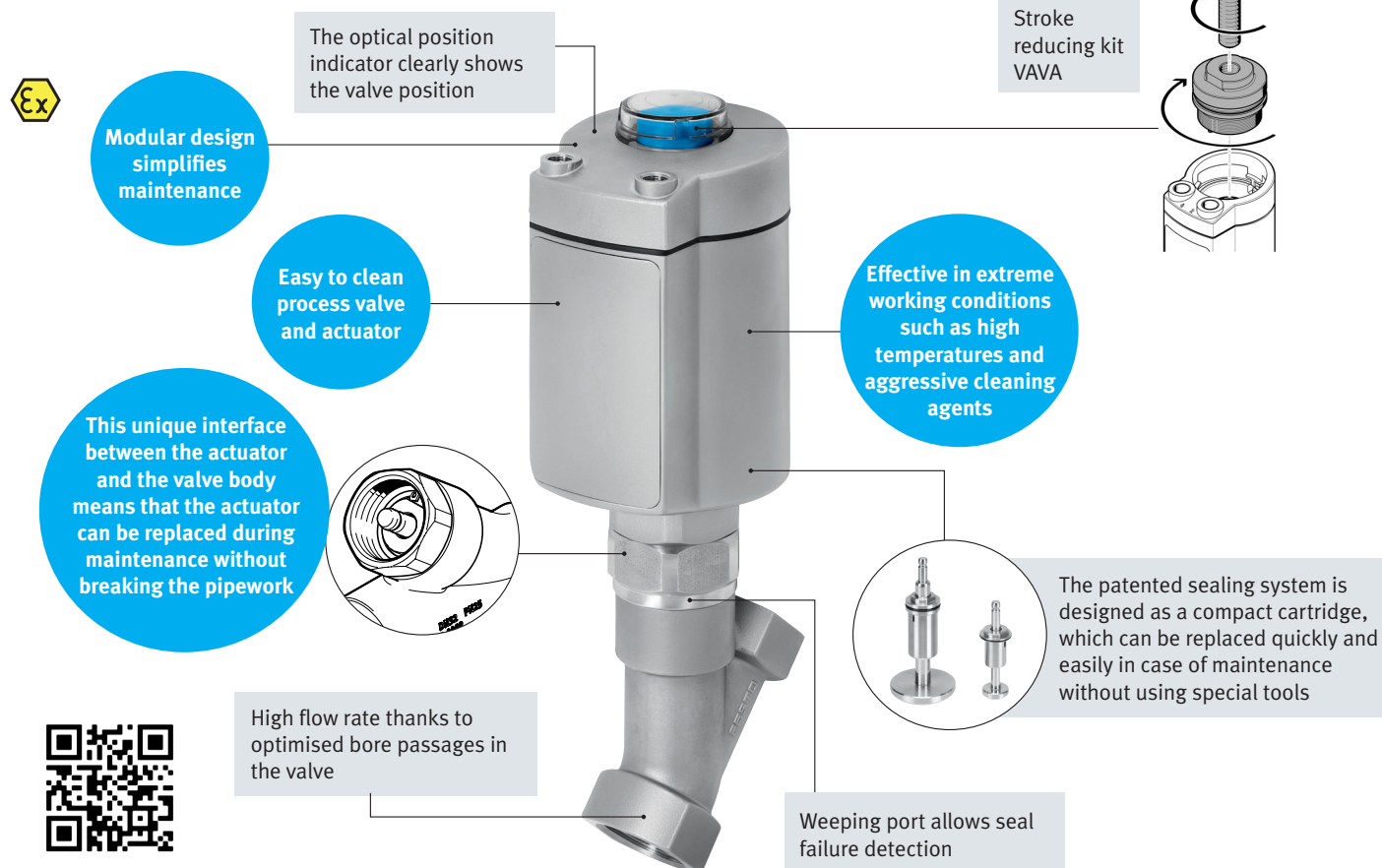
DADG – adapter plate for ESD(*) circuit



(*) ESD: Emergency shutdown

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 or lead-free Ecobrase valve body
- Polymer or stainless steel actuator
- 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

Pilot valve VOFX

- 3/2-way, closed, single solenoid
- Mounted directly on the actuator
- Can be ordered separately as an accessory
- Ex Approved

Sizes available

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

Alternative

Angle Seat Valve VZXF

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

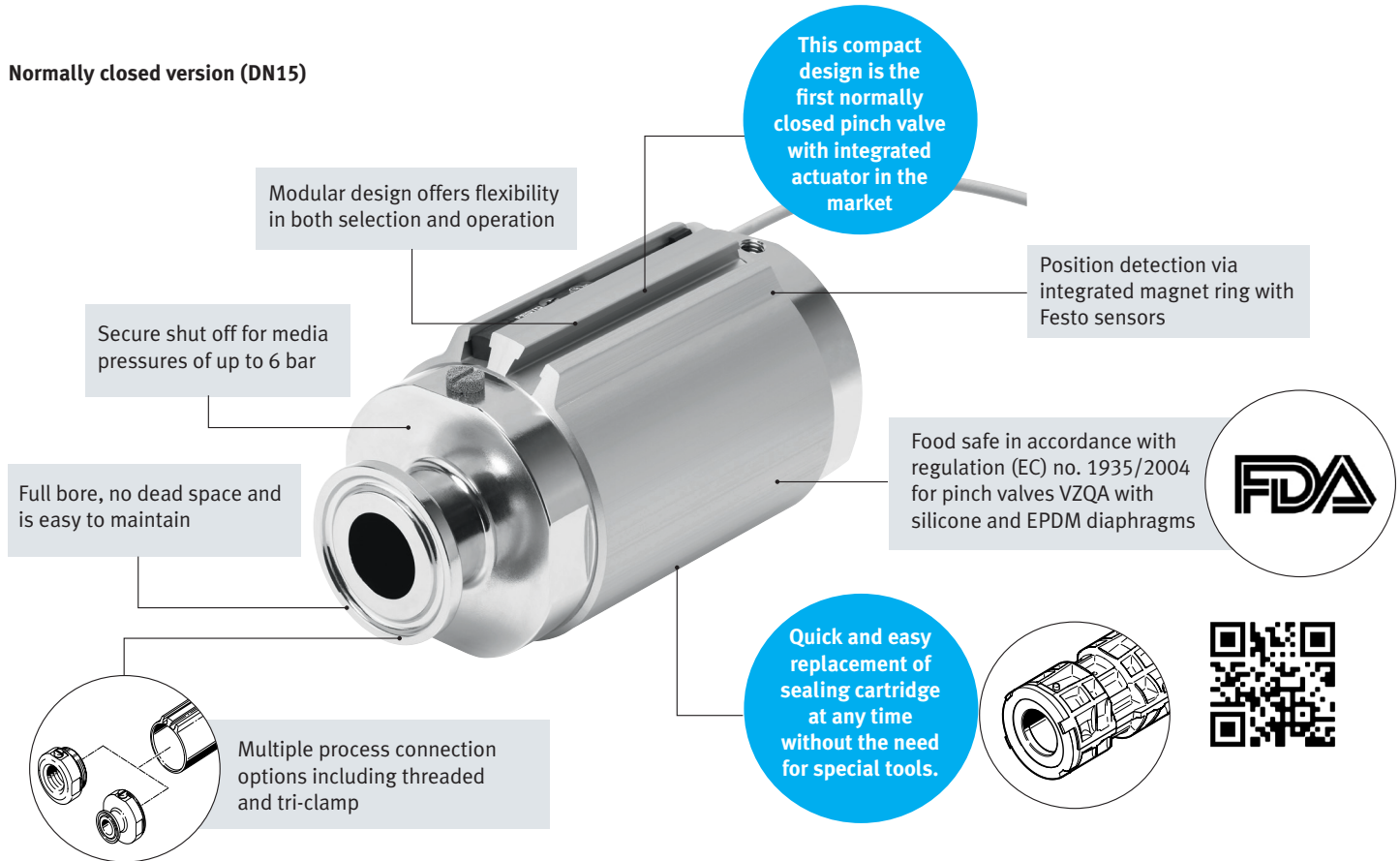


Shut-off control for glycol used in food production

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, DN25 and DN50

Normally closed version

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

Materials

Housing material

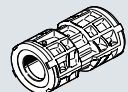
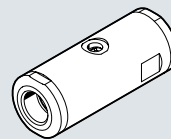
- Aluminium
- Stainless steel

End cap material

- Aluminium
- Stainless steel
- POM (Acetal)

Shut-off element

- EPDM
- NBR
- Silicone



Filling applications



Dispensing



...even as a gripper!

Solenoid media 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 into a tank

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

Diaphragm valve – VZWM

Normally open



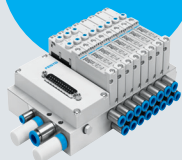
- Diaphragm valve
- Brass or stainless steel casting design
- Wide range of coils with a variety of different voltages available.
- Operate with differential pressure

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

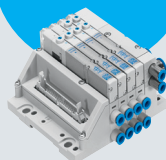
Compact and cost-effective



- 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 optimised version available

Valve terminal – MPA

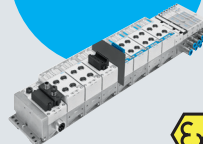
High performing and expandable series



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

Valve terminal – CPX

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
- Profinet S2 redundancy

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.

Air preparation – MS	Air preparation – D	Air preparation – PCRP	Tubing	Fittings
 Modular product series 	 Air prep for standard applications 	 Stainless steel filter regulator 	 Application specific tubing 	 Fittings for all purposes 
- Simple or complex applications - Individual or pre-assembled units - Integrated functions such as safety, 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" - Aluminium housing and metal bowl guards 3 grid sizes MINI, MIDI and MAXI - Accessories available	- Complete stainless steel design - Flow rate up to 4,115 l/min - Extremely wide temperature range from -60 to +80°C - UV resistant - Reliable manual drain - Suitable for potentially explosive areas	- Wide selection of tubing materials - Pressure resistant, heat resistant, antistatic, resistant to cleaning agents, media resistant, flame retardant, welding splatter resistant, food industry approved - Different colour options	- More than 300 connectors and numerous connections - Mini, standard, metal, polymer and corrosion resistant fittings - Push in, threaded, barbed, couplings - Flow controls, shut-off and non-return valve fittings - Stainless steel range is available

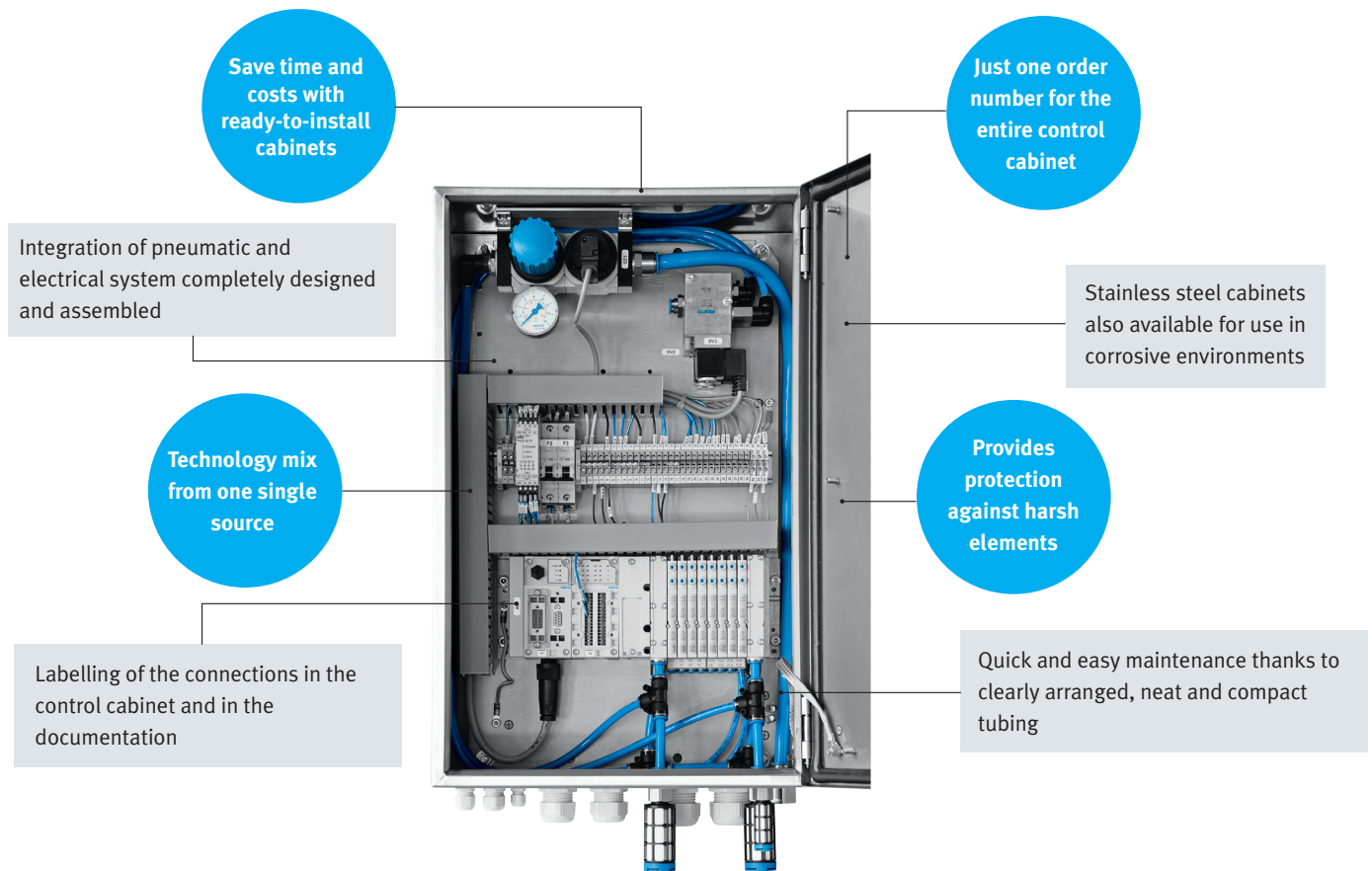
Sensors

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

Pressure sensor – SPTW	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 $\pm 1\%$ FS - Repeatability $\pm 0.1\%$ FS	- 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	- Measures flow rate, consumption and temperature of neutral liquid media - Highly visible display - The display and the housing can be freely rotated - IO-Link support - Easy to replace the sensor and fittings	- 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.



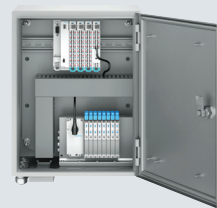
Options



Integrated control cabinet solution for outdoor use, ideal for the water/wastewater industry



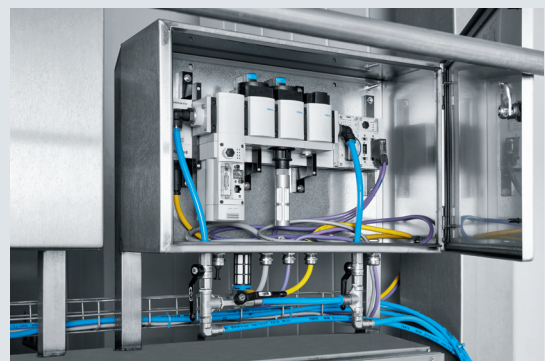
Stainless steel cabinets for hygienic purposes and mounting in clean rooms



Extremely compact design to protect valve terminal controls with connections underneath

Control cabinets made to measure

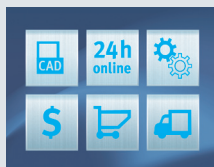
- Individually configured
- Adapted to specific requirements in process automation
- Design and sizing included
- Fully tested system
- You receive detailed system documentation:
 - Assembly drawings
 - Parts list
 - Circuit diagrams
 - Operating instructions for components
- CE Certification



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 transfers 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.

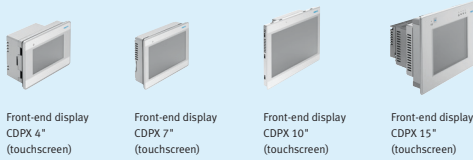
- ✓ No need to install it because QuickSearch is a self executing file.
- ✓ All functions accessible with one click.
- ✓ A tool with different online system and interfaces.
- ✓ Always up to date.
- ✓ Easy access to technical documentation and spare parts catalogue.



Process Automation solutions – complete portfolio

Field automation components

Operator level



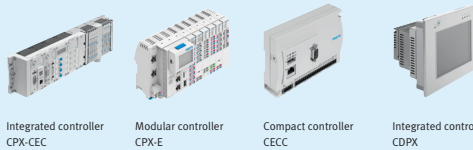
Front-end display
CDPX 4"
(touchscreen)

Front-end display
CDPX 7"
(touchscreen)

Front-end display
CDPX 10"
(touchscreen)

Front-end display
CDPX 15"
(touchscreen)

Control level Controllers



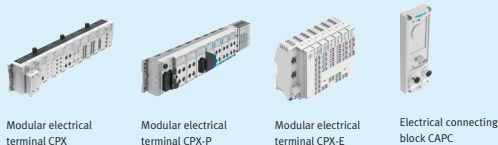
Integrated controller
CPX-CEC

Modular controller
CPX-E

Compact controller
CECC

Integrated controller
CDPX

Remote I/O



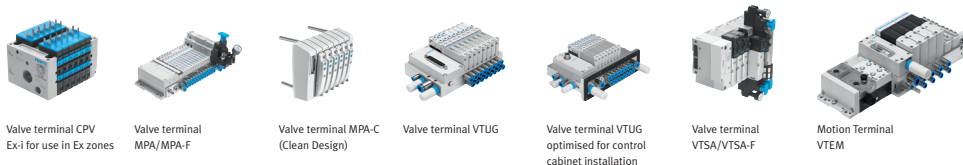
Modular electrical
terminal CPX

Modular electrical
terminal CPX-P

Modular electrical
terminal CPX-E

Electrical connecting
block CAPC

Valve terminals



Valve terminal CPV
Ex-i for use in Ex zones

Valve terminal
MPA/MPA-F

Valve terminal MPA-C
(Clean Design)

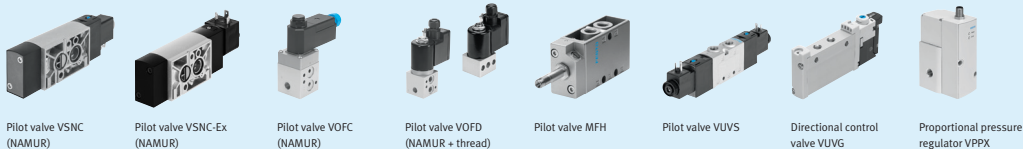
Valve terminal VTUG

Valve terminal VTUG
optimised for control
cabinet installation

Valve terminal
VTSA/VTSA-F

Motion Terminal
VTEM

Field level Solenoid valves



Pilot valve VSNC
(NAMUR)

Pilot valve VSNC-Ex
(NAMUR)

Pilot valve VOFC
(NAMUR)

Pilot valve VOFD
(NAMUR + thread)

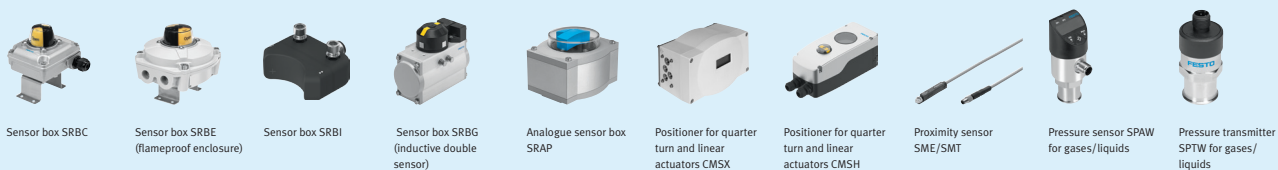
Pilot valve MFH

Pilot valve VUVS

Directional control
valve VUVG

Proportional pressure
regulator VPPX

Sensors and positioners



Sensor box SRBC

Sensor box SRBE
(flameproof enclosure)

Sensor box SRBI

Sensor box SRBG
(inductive double
sensor)

Analogue sensor box
SRAP

Positioner for quarter
turn and linear
actuators CMSX

Positioner for quarter
turn and linear
actuators CMSH

Proximity sensor
SME/SMT

Pressure sensor SPAW
for gases/liquids

Pressure transmitter
SPTW for gases/
liquids

Actuators



Quarter turn actuator
DFPD

Quarter turn actuator
DAPS

Quarter turn actuator,
stainless steel
DAPS-CR

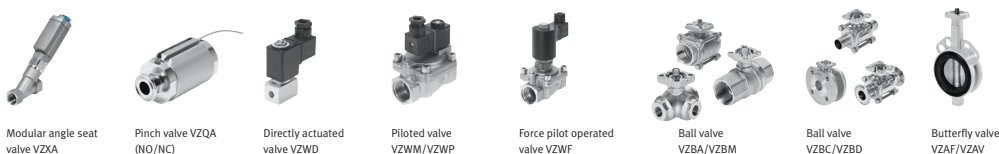
Quarter turn actuator
with handwheel
DAPS-MW

Linear actuator DLP

Closed-loop
controlled linear
actuator DFPI

Closed-loop controlled
linear actuator to ISO
15552 DFPI-NB3

Process and media valves



Modular angle seat
valve VZKA

Pinch valve VZQA
(NO/NC)

Directly actuated
valve VZW0

Piloted valve
VZW1/VZW2

Force pilot operated
valve VZW3

Ball valve
VZBA/VZBM

Ball valve
VZBC/VZBD

Butterfly valve
VZAF/VZAV

Accessories



Service units

Air dryers

Couplings

Push-in fittings

Plastic tubing

Polytetra-
fluoroethylene tubing
PTFEN

Pressure booster DPA

Compressed air
reservoirs

Process valve units (selected examples)



Festo Designer
Studio engineering
design software for
visualisation



PLC development
environment



EtherNet/IP

DeviceNet

CC-Link

CANopen

EtherCAT

INTERBUS

Modbus

Modbus

Modbus

Modbus

Modbus

Modbus

Modbus

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Modbus

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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



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



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



Quarter turn actuator DFPD,
butterfly valve VZAV,
positioner CMSX

Customised systems



Customised control
cabinet solution,
also for ex zones



Pneumatic operator panel



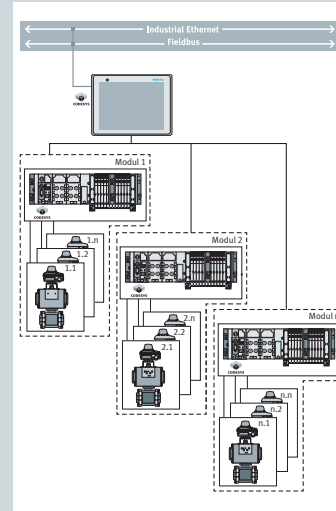
Linear actuator DFPD with
positioner CMSX



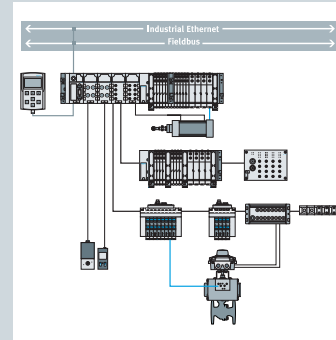
Quarter turn actuator DFPD
with individual swivel angle
and integrated speed
regulation

Automation concepts

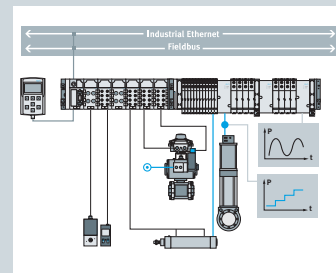
Modular automation



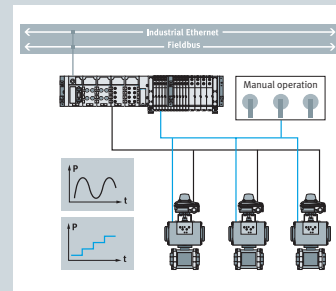
Hybrid installation (centralised/decentralised)



Centralised installation



Automation with pneumatic operator panel



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

Festo – your partner in automation



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Affiliations

